APPENDIX A

Traffic Data

1664178 Kennedy Road Noise Assessment - Prediction Modelling Inputs

ROAD SEGMENT				START OF CONSTRUCTION										MATURE STATE OF DEVELOPMENT							
ALIGNMENT	LIMITS		SEGMENT ID	SPEED (km/hr)	AADT	YEAR	AADT	YEAR	DAYTIME %	NIGHTTIME %	% TRUCKS	% MEDIUM TRUCKS	% HEAVY TRUCKS	SPEED (km/hr)	AADT	YEAR	DAYTIME %	NIGHTTIME %	% TRUCKS	% MEDIUM TRUCKS	% HEAVY TRUCKS
Kennedy Road	Major Mackenzie Drive	16th Avenue	S01_NB	75	18692	2023	22741	2030	93%	7%	4%	2%	2%	75	30024	2041	93%	7%	4%	2%	2%
Kennedy Road	Major Mackenzie Drive	16th Avenue	S01_SB	68	14662	2023	17838	2030	93%	7%	4%	2%	2%	70	21909	2041	93%	7%	4%	2%	2%
Kennedy Road	16th Avenue	Highway 7	S02_NB	67	19867	2023	23543	2030	94%	6%	6%	3%	3%	70	29183	2041	94%	6%	6%	3%	3%
Kennedy Road	16th Avenue	Highway 7	S02_SB	64	21268	2023	25203	2030	94%	6%	6%	3%	3%	70	31522	2041	94%	6%	6%	3%	3%
Kennedy Road	Highway 7	Highway 407	S03_NB	60	27267	2023	32087	2030	93%	7%	7%	3%	4%	70	39593	2041	93%	7%	7%	3%	4%
Kennedy Road	Highway 7	Highway 407	S03_SB	66	27834	2023	32754	2030	93%	7%	7%	3%	4%	70	40552	2041	93%	7%	7%	3%	4%
Kennedy Road	Highway 407	14th Avenue	S04_NB	60	23506	2023	26271	2030	93%	7%	7%	4%	3%	70	30742	2041	93%	7%	7%	4%	3%
Kennedy Road	Highway 407	14th Avenue	S04_SB	66	26106	2023	29176	2030	93%	7%	7%	4%	3%	70	33874	2041	93%	7%	7%	4%	3%
Kennedy Road	14th Avenue	Denison Street	S05_NB	60	21436	2023	23763	2030	93%	7%	7%	4%	3%	70	27498	2041	93%	7%	7%	4%	3%
Kennedy Road	14th Avenue	Denison Street	S05_SB	67	28698	2023	31814	2030	93%	7%	7%	4%	3%	70	36633	2041	93%	7%	7%	4%	3%
Kennedy Road	Denison Street	Steeles Avenue	S06_NB	60	22194	2023	25081	2030	94%	6%	2%	2%	0%	70	29722	2041	94%	6%	2%	2%	0%
Kennedy Road	Denison Street	Steeles Avenue	S06_SB	67	23792	2023	26888	2030	94%	6%	2%	2%	0%	70	31649	2041	94%	6%	2%	2%	0%
Major Mackenzie Drive	@ Kennedy Road		AS01	81	12954	2023	13803	2030	93%	7%	4%	2%	2%	81	15137	2041	93%	7%	4%	2%	2%
16th Avenue	@ Kennedy Road		AS02	70	27608	2023	30164	2030	94%	6%	4%	2%	2%	70	34179	2041	94%	6%	4%	2%	2%
Highway 7	@ Kennedy Road		AS03	70	36800	2023	39766	2030	93%	7%	8%	4%	4%	70	44428	2041	93%	7%	8%	4%	4%
Highway 407	@ Kennedy Road		AS04	100	10323	2023	12723	2030	93%	7%	16%	9%	7%	100	16495	2041	93%	7%	16%	9%	7%
14th Avenue	@ Kennedy Road		AS05	69	29904	2023	30880	2030	93%	7%	6%	3%	3%	69	32414	2041	93%	7%	6%	3%	3%
Denison Street	@ Kennedy Road		AS06	69	6790	2023	7047	2030	93%	7%	1%	1%	0%	69	7451	2041	93%	7%	1%	1%	0%
Steeles Avenue	@ Kennedy Road		AS07	50	38896	2023	41671	2030	94%	6%	0%	0%	0%	50	46030	2041	94%	6%	0%	0%	0%

Note: Daytime (16 Hours) – 07:00 to 23:00. Nighttime (8 Hours) – 23:00 to 07:00

APPENDIX B

ORNAMENT Inputs Summary

Start of Construction - 2023 S01_NB Kennedy Road Major Mackenzie Drive 16th Avenue

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	33	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	165	165	0	-86	33	2.0	7	206	209	209	17384	96%	2%	2%
OLA002	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	75	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	48	0	-60	75	6.0	3	206	207	207	17384	96%	2%	2%
OLA003	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	-78	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	42	0	-78	88	2.0	4	206	207	206	17384	96%	2%	2%
OLA004	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	-77	87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	64	64	0	-77	45	6.0	3	206	207	207	17384	96%	2%	2%
OLA005	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	-83	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	37	37	0	-83	88	2.2	5	206	208	207	17384	96%	2%	2%
OLA006	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	31	0	-90	85	2.1	6	207	207	207	17384	96%	2%	2%
OLA007	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	-84	87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	41	0	-84	87	2.1	5	207	208	207	17384	96%	2%	2%
OLA008	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	31	0	-90	86	2.0	12	207	207	207	17384	96%	2%	2%
OLA009	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	-85	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	31	31	0	-85	88	2.1	5	207	207	207	17384	96%	2%	2%
OLA010	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	40	0	-90	86	1.9	8	206	206	206	17384	96%	2%	2%
OLA011	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	-83	86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	71	71	0	-80	-45	9.0	3	206	206	206	17384	96%	2%	2%
OLA012	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	39	0	-89	87	2.4	7	205	204	204	17384	96%	2%	2%
OLA013	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	47	0	-65	86	6.0	3	204	204	204	17384	96%	2%	2%
OLA014	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	28	28	0	-87	88	2.0	4	204	203	203	17384	96%	2%	2%
OLA015	75	2.3%	2 Manual	1 Typical Asphalt or Concrete	-86	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	33	0	-86	89	2.0	6	201	202	202	17384	96%	2%	2%
OLA016	75	2.3%	2 Manual	1 Typical Asphalt or Concrete	-83	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	74	74	0	-	-	0.0	-	200	200	-	17384	96%	2%	2%
OLA017	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	29	29	0	-88	89	1.9	7	195	196	196	17384	96%	2%	2%
OLA018	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	31	0	-87	90	1.9	2	195	196	196	17384	96%	2%	2%
OLA019	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	54	54	0	-60	50	6.0	3	195	197	197	17384	96%	2%	2%
OLA020	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	33	33	0	-86	90	2.0	8	196	197	197	17384	96%	2%	2%
OLA021	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	-84	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	62	0	-60	50	6.0	3	197	200	200	17384	96%	2%	2%
OLA022	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	-82	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	38	0	-82	20	9.0	3	201	200	200	17384	96%	2%	2%
OLA023	75	4.3%	2 Manual	1 Typical Asphalt or Concrete	-87	83	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	83	83	0	-50	50	6.0	3	201	199	199	17384	96%	2%	2%
OLA024	75	4.3%	2 Manual	1 Typical Asphalt or Concrete	-86	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	40	0	-45	45	6.0	3	195	193	193	17384	96%	2%	2%
OLA025	75	4.3%	2 Manual	1 Typical Asphalt or Concrete	-81	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	31	0	-81	90	1.8	5	190	191	192	17384	96%	2%	2%
OLA026	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-38	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	78	0	-	-	0.0	-	184	183	-	17384	96%	2%	2%
OLA027	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	64	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	99	0	-	-	0.0	-	184	185	-	17384	96%	2%	2%
OLA028	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	-71	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	131	0	-	-	0.0	-	184	182	-	17384	96%	2%	2%
OLA029	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	80	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	157	0	-	-	0.0	-	184	185	-	17384	96%	2%	2%
OLA030	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	87	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	198	0	-	-	0.0	-	184	184	-	17384	96%	2%	2%
OLA031	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	-73	-62	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	52	205	0	-	-	0.0	-	184	182	-	17384	96%	2%	2%
OLA032	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	-68	-61	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	72	280	0	-	-	0.0	-	184	181	-	17384	96%	2%	2%
OLA033	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	282	0	-	-	0.0	-	184	182	-	17384	96%	2%	2%
OLA034	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	-63	-63	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	287	0	-	-	0.0	-	184	182	-	17384	96%	2%	2%
OLA035	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	-58	-52	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	46	361	0	-58	-52	6.0	3	184	182	182	17384	96%	2%	2%
OLA036	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	342	0	-	-	0.0	-	184	182	-	17384	96%	2%	2%
OLA037	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	-54	-44	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	405	0	-	-	0.0	-	184	182	-	17384	96%	2%	2%
OLA038	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	400	0	-	-	0.0	-	184	182	-	17384	96%	2%	2%
OLA039	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	-53	-39	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	449	0	-	-	0.0	-	184	181	-	17384	96%	2%	2%
OLA040	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	449	0	-	-	0.0	-	184	183	-	17384	96%	2%	2%
OLA041	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	-46	-29	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	500	0	-	-	0.0	-	184	181	-	17384	96%	2%	2%
OLA042	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	-48	-29	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	518	0	-	-	0.0	-	184	182	-	17384	96%	2%	2%
OLA043	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	493	0	-	-	0.0	-	184	183	-	17384	96%	2%	2%
OLA044	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	-51	-29	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	39	561	0	-44	-29	1.8	9	184	182	182	17384	96%	2%	2%
OLA045	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	-61	-37	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	598	0	-	-	0.0	-	184	183	-	17384	96%	2%	2%
OLA046	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	573	0	-	-	0.0	-	184	185	-	17384	96%	2%	2%
OLA047	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	-73	-49	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	663	0	-73	-49	6.0	11	184	183	183	17384	96%	2%	2%
OLA048	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	719	0	-	-	0.0	-	184	184	-	17384	96%	2%	2%
OLA049	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	83	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	752	0	-	-	0.0	-	184	184	-	17384	96%	2%	2%
OLA050	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-66	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	738	0	-	-	0.0	-	184	185	-	17384	96%	2%	2%
OLA051	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	77	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	805	0	77	84	2.0	11	184	184	185	17384	96%	2%	2%
OLA052	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-73	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	796	0	-	-	0.0	-	184	185	-	17384	96%	2%	2%
OLA053	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	70	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	858	0	70	77	2.0	19	184	184	185	17384	96%	2%	2%
OLA054	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	61	86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	904	0	61	73	2.0	12	184	184	186	17384	96%	2%	2%
OLA055	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	860	0	-	-	0.0	-	184	185	-	17384	96%	2%	2%
OLA056	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	61	84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	952	0	61	75	2.0	13	184	184	185	17384	96%	2%	2%
OLA057	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	910	0	-	-	0.0	-	184	185	-	17384	96%	2%	2%

OLA058	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	63	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	999	0	63	78	2.0	10	184	185	186	17384	96%	2%	2%
OLA059	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	972	0	-	-	0.0	-	184	185	-	17384	96%	2%	2%
OLA060	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	64	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	1051	0	64	85	1.8	15	184	186	186	17384	96%	2%	2%
OLA061	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	1042	0	-	-	0.0	-	184	184	-	17384	96%	2%	2%
OLA062	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	66	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	21	1099	0	66	85	1.8	7	184	186	185	17384	96%	2%	2%
OLA063	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	24	1108	0	-	-	0.0	-	184	185	-	17384	96%	2%	2%
OLA064	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	66	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	1153	0	66	83	1.8	6	184	186	185	17384	96%	2%	2%
OLA065	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	30	1180	0	-	-	0.0	-	184	183	-	17384	96%	2%	2%
OLA066	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	1227	0	-	-	0.0	-	184	183	-	17384	96%	2%	2%
OLA067	75	2.5%	2	Manual	1	Typical Asphalt or Concrete	70	86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	1321	0	70	86	1.8	14	184	181	182	17384	96%	2%	2%
OLA068	75	2.5%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	1311	0	-	-	0.0	-	184	180	-	17384	96%	2%	2%
OLA069	75	2.5%	2	Manual	1	Typical Asphalt or Concrete	71	86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	1392	0	71	86	1.8	31	184	181	180	17384	96%	2%	2%
OLA070	75	2.5%	2	Manual	1	Typical Asphalt or Concrete	72	86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	1432	0	72	86	1.8	17	184	179	178	17384	96%	2%	2%
OLA071	75	2.5%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	1401	0	-	-	0.0	-	184	178	-	17384	96%	2%	2%
OLA072	75	2.5%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	39	1465	0	-	-	0.0	-	184	177	-	17384	96%	2%	2%
OLA073	75	2.5%	2	Manual	1	Typical Asphalt or Concrete	73	86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	1513	0	73	86	1.9	10	184	177	177	17384	96%	2%	2%
OLA074	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	1541	0	-	-	0.0	-	184	176	-	17384	96%	2%	2%
OLA075	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	73	86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	1610	0	-	-	0.0	-	184	175	-	17384	96%	2%	2%
OLA076	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	67	79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	72	1671	0	-	-	0.0	-	184	175	-	17384	96%	2%	2%
OLA077	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	32	1812	0	-	-	0.0	-	184	174	-	17384	96%	2%	2%
OLA078	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	66	75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	64	1866	0	-	-	0.0	-	184	172	-	17384	96%	2%	2%
OLA079	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	1885	0	-	-	0.0	-	184	175	-	17384	96%	2%	2%
OLA080	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	78	86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	23	1915	0	-	-	0.0	-	184	174	-	17384	96%	2%	2%
OLA081	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	65	1927	0	-	-	0.0	-	184	175	-	17384	96%	2%	2%
OLA082	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	80	87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	2275	0	-	-	0.0	-	184	181	-	17384	96%	2%	2%
OLA083	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	77	84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	2318	0	77	84	2.0	13	184	182	182	17384	96%	2%	2%
OLA084	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	72	78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	2372	0	72	78	1.6	18	184	183	182	17384	96%	2%	2%
OLA085	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	54	60	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	2466	0	54	60	2.6	8	184	182	181	17384	96%	2%	2%
OLA086	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	69	3719	0	89	90	2.0	19	184	193	194	17384	96%	2%	2%
OLA087	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	54	3757	0	89	90	2.0	55	184	194	194	17384	96%	2%	2%
OLA088	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	77	3783	0	89	89	6.0	21	184	194	194	17384	96%	2%	2%
OLA089	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	4010	0	-	-	0.0	-	184	205	-	17384	96%	2%	2%
OLA090	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	88	88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	74	4036	0	-	-	0.0	-	184	205	-	17384	96%	2%	2%
OLA091	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	4412	0	-	-	0.0	-	184	203	-	17384	96%	2%	2%
OLA092	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	4557	0	-	-	0.0	-	184	203	-	17384	96%	2%	2%
OLA093	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	4655	0	89	89	1.7	17	184	202	201	17384	96%	2%	2%
OLA094	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	76	76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	4827	0	-	-	0.0	-	184	202	-	17384	96%	2%	2%
OLA095	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	68	68	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	66	4898	0	-	-	0.0	-	184	202	-	17384	96%	2%	2%
OLA096	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	98	4887	0	-	-	0.0	-	184	202	-	17384	96%	2%	2%
OLA097	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	60	60	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	4948	0	60	60	1.8	5	184	202	201	17384	96%	2%	2%
OLA098	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	59	59	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	4993	0	-	-	0.0	-	184	202	-	17384	96%	2%	2%
OLA099	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	59	59	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	5115	0	-	-	0.0	-	184	201	-	17384	96%	2%	2%
OLA100	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	5519	0	-	-	0.0	-	184	202	-	17384	96%	2%	2%
OLA101	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	5585	0	-	-	0.0	-	184	201	-	17384	96%	2%	2%
OLA102	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	76	5770	0	-	-	0.0	-	184	198	-	17384	96%	2%	2%
OLA103	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	-88	-87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	70	5940	0	-	-	0.0	-	184	197	-	17384	96%	2%	2%
OLA104	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	-80	-78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	99	6138	0	-	-	0.0	-	184	196	-	17384	96%	2%	2%

Start of Construction - 2023 S02_NBa Kennedy Road 16th Avenue Highway 7

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	165	1948	0	-87	-86	2.0	7	184	209	209	18675	95%	3%	3%
OLA002	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	1878	0	-	-	0.0	-	184	207	-	18675	95%	3%	3%
OLA003	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	87	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	1859	0	87	88	2.0	4	184	207	206	18675	95%	3%	3%
OLA004	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	87	87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	64	1766	0	-	-	0.0	-	184	207	-	18675	95%	3%	3%
OLA005	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	88	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	37	1723	0	88	88	2.2	5	184	208	207	18675	95%	3%	3%
OLA006	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	1687	0	-90	-90	2.1	6	184	207	207	18675	95%	3%	3%
OLA007	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	87	87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	1691	0	87	87	2.1	5	184	208	207	18675	95%	3%	3%
OLA008	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	1616	0	-	-	0.0	-	184	207	-	18675	95%	3%	3%
OLA009	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	88	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	31	1615	0	88	88	2.1	5	184	207	207	18675	95%	3%	3%
OLA010	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	1515	0	-90	-90	1.9	8	184	206	206	18675	95%	3%	3%
OLA011	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	86	86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	71	1523	0	-	-	0.0	-	184	206	-	18675	95%	3%	3%
OLA012	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	1427	0	-90	-89	2.4	7	184	204	204	18675	95%	3%	3%
OLA013	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	1368	0	-	-	0.0	-	184	204	-	18675	95%	3%	3%
OLA014	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	88	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	28	1355	0	88	88	2.0	4	184	203	203	18675	95%	3%	3%
OLA015	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	1276	0	89	89	2.0	6	184	202	202	18675	95%	3%	3%
OLA016	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	87	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	74	1233	0	-	-	0.0	-	184	200	-	18675	95%	3%	3%
OLA017	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	29	989	0	-89	-88	1.9	7	184	196	196	18675	95%	3%	3%
OLA018	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	953	0	-89	-87	1.9	2	184	196	196	18675	95%	3%	3%
OLA019	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	54	914	0	-	-	0.0	-	184	197	-	18675	95%	3%	3%
OLA020	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	33	819	0	-88	-86	2.0	8	184	197	197	18675	95%	3%	3%
OLA021	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	-84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	775	0	-	-	0.0	-	184	200	-	18675	95%	3%	3%
OLA022	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-85	-82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	628	0	-85	-82	9.0	3	184	200	200	18675	95%	3%	3%
OLA023	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	83	83	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	83	600	0	-	-	0.0	-	184	199	-	18675	95%	3%	3%
OLA024	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	87	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	415	0	-	-	0.0	-	184	193	-	18675	95%	3%	3%
OLA025	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	-81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	350	0	-86	-81	1.8	5	184	191	192	18675	95%	3%	3%
OLA026	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-38	66	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	62	0	55	66	6.0	3	184	183	183	18675	95%	3%	3%
OLA027	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	64	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	41	0	-86	-15	2.5	26	184	185	184	18675	95%	3%	3%
OLA028	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-71	63	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	40	0	-	-	0.0	-	183	182	-	18675	95%	3%	3%
OLA029	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-69	80	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	47	0	-62	65	2.5	33	183	185	184	18675	95%	3%	3%
OLA030	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-51	87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	44	0	-40	60	6.0	3	182	184	184	18675	95%	3%	3%
OLA031	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-62	49	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	52	52	0	-	-	0.0	-	182	182	-	18675	95%	3%	3%
OLA032	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-61	-5	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	72	73	0	-	-	0.0	-	181	181	-	18675	95%	3%	3%
OLA033	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	64	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	51	0	-	-	0.0	-	181	182	-	18675	95%	3%	3%
OLA034	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-63	-30	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	49	0	-	-	0.0	-	181	182	-	18675	95%	3%	3%
OLA035	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-59	-58	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	46	114	0	-59	-58	6.0	3	181	182	182	18675	95%	3%	3%
OLA036	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	88	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	113	0	-	-	0.0	-	181	182	-	18675	95%	3%	3%
OLA037	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-63	-54	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	161	0	-	-	0.0	-	181	182	-	18675	95%	3%	3%
OLA038	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	177	0	-	-	0.0	-	181	182	-	18675	95%	3%	3%
OLA039	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-64	-53	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	209	0	-	-	0.0	-	181	181	-	18675	95%	3%	3%
OLA040	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	234	0	-	-	0.0	-	181	183	-	18675	95%	3%	3%
OLA041	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-59	-46	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	268	0	-	-	0.0	-	181	181	-	18675	95%	3%	3%
OLA042	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-63	-48	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	291	0	-	-	0.0	-	181	182	-	18675	95%	3%	3%
OLA043	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	288	0	-	-	0.0	-	181	183	-	18675	95%	3%	3%
OLA044	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-67	-51	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	39	342	0	-	-	0.0	-	181	182	-	18675	95%	3%	3%
OLA045	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-76	-61	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	385	0	-	-	0.0	-	181	183	-	18675	95%	3%	3%
OLA046	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	380	0	-	-	0.0	-	181	185	-	18675	95%	3%	3%
OLA047	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	-73	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	453	0	-87	-73	6.0	11	181	183	183	18675	95%	3%	3%
OLA048	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	74	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	529	0	-	-	0.0	-	181	184	-	18675	95%	3%	3%
OLA049	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	69	83	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	562	0	-	-	0.0	-	181	184	-	18675	95%	3%	3%
OLA050	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	531	0	-	-	0.0	-	181	185	-	18675	95%	3%	3%
OLA051	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	65	77	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	608	0	65	77	2.0	11	181	184	185	18675	95%	3%	3%
OLA052	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	586	0	-	-	0.0	-	181	185	-	18675	95%	3%	3%
OLA053	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	59	70	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	658	0	59	70	2.0	19	181	184	185	18675	95%	3%	3%
OLA054	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	51	61	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	698	0	51	61	2.0	12	181	184	186	18675	95%	3%	3%
OLA055	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	645	0	-	-	0.0	-	181	185	-	18675	95%	3%	3%
OLA056	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	52	61	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	741	0	52	61	2.0	13	181	185	186	18675	95%	3%	3%
OLA057	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	691	0	-	-	0.0	-	181	185	-	18675	95%	3%	3%

OLA058	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	55	63	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	784	0	55	63	2.0	10	181	185	186	18675	95%	3%	3%
OLA059	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	749	0	-	-	0.0	-	181	185	-	18675	95%	3%	3%
OLA060	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	57	64	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	833	0	57	64	1.8	15	181	186	186	18675	95%	3%	3%
OLA061	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	815	0	-	-	0.0	-	181	184	-	18675	95%	3%	3%
OLA062	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	59	66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	21	877	0	59	66	1.8	7	181	186	185	18675	95%	3%	3%
OLA063	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	24	881	0	-	-	0.0	-	181	185	-	18675	95%	3%	3%
OLA064	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	60	66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	931	0	60	66	1.8	6	181	186	185	18675	95%	3%	3%
OLA065	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	30	949	0	-	-	0.0	-	181	183	-	18675	95%	3%	3%
OLA066	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	994	0	-	-	0.0	-	181	183	-	18675	95%	3%	3%
OLA067	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	65	70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	1092	0	65	70	1.8	14	181	181	182	18675	95%	3%	3%
OLA068	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	1075	0	-	-	0.0	-	181	180	-	18675	95%	3%	3%
OLA069	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	67	71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	1161	0	67	71	1.8	31	181	181	180	18675	95%	3%	3%
OLA070	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	68	72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	1199	0	68	72	1.8	17	181	179	178	18675	95%	3%	3%
OLA071	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	1164	0	-	-	0.0	-	181	178	-	18675	95%	3%	3%
OLA072	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	39	1227	0	-	-	0.0	-	181	177	-	18675	95%	3%	3%
OLA073	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	69	73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	1278	0	69	73	1.9	10	181	177	177	18675	95%	3%	3%
OLA074	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	1302	0	-	-	0.0	-	181	176	-	18675	95%	3%	3%
OLA075	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	70	73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	1375	0	-	-	0.0	-	181	175	-	18675	95%	3%	3%
OLA076	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	65	67	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	72	1435	0	-	-	0.0	-	181	175	-	18675	95%	3%	3%
OLA077	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	32	1568	0	-	-	0.0	-	181	174	-	18675	95%	3%	3%
OLA078	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	64	66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	64	1624	0	-	-	0.0	-	181	172	-	18675	95%	3%	3%
OLA079	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	1640	0	-	-	0.0	-	181	175	-	18675	95%	3%	3%
OLA080	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	77	78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	23	1671	0	-	-	0.0	-	181	174	-	18675	95%	3%	3%
OLA081	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	65	1681	0	-	-	0.0	-	181	175	-	18675	95%	3%	3%
OLA082	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	79	80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	2030	0	-	-	0.0	-	181	181	-	18675	95%	3%	3%
OLA083	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	76	77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	2073	0	76	77	2.0	13	181	182	182	18675	95%	3%	3%
OLA084	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	71	72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	2127	0	71	72	1.6	18	181	183	182	18675	95%	3%	3%
OLA085	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	54	54	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	2220	0	54	54	2.6	8	181	182	181	18675	95%	3%	3%
OLA086	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	69	3473	0	89	89	2.0	19	181	193	194	18675	95%	3%	3%
OLA087	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	54	3511	0	89	89	2.0	55	181	194	194	18675	95%	3%	3%
OLA088	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	77	3536	0	89	89	6.0	21	181	194	194	18675	95%	3%	3%
OLA089	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	3763	0	-	-	0.0	-	181	205	-	18675	95%	3%	3%
OLA090	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	88	88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	74	3789	0	-	-	0.0	-	181	205	-	18675	95%	3%	3%
OLA091	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	4165	0	-	-	0.0	-	181	203	-	18675	95%	3%	3%
OLA092	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	4311	0	-	-	0.0	-	181	203	-	18675	95%	3%	3%
OLA093	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	4409	0	89	90	1.7	17	181	202	201	18675	95%	3%	3%
OLA094	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	76	76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	4581	0	-	-	0.0	-	181	202	-	18675	95%	3%	3%
OLA095	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	68	68	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	66	4652	0	-	-	0.0	-	181	202	-	18675	95%	3%	3%
OLA096	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	98	4641	0	-	-	0.0	-	181	202	-	18675	95%	3%	3%
OLA097	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	60	60	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	4703	0	60	60	1.8	5	181	202	201	18675	95%	3%	3%
OLA098	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	59	59	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	4747	0	59	59	1.8	4	181	202	202	18675	95%	3%	3%
OLA099	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	59	60	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	4870	0	-	-	0.0	-	181	201	-	18675	95%	3%	3%
OLA100	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	5276	0	-	-	0.0	-	181	202	-	18675	95%	3%	3%
OLA101	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	5343	0	-	-	0.0	-	181	201	-	18675	95%	3%	3%
OLA102	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	76	5529	0	-	-	0.0	-	181	198	-	18675	95%	3%	3%
OLA103	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	70	5699	0	-	-	0.0	-	181	197	-	18675	95%	3%	3%
OLA104	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-78	-77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	99	5897	0	-	-	0.0	-	181	196	-	18675	95%	3%	3%

Start of Construction - 2023 S02_NBb Kennedy Road 16th Avenue Highway 7

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	165	2191	0	-90	-87	2.0	7	181	209	209	18675	95%	3%	3%
OLA002	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	2123	0	-	-	0.0	-	181	207	-	18675	95%	3%	3%
OLA003	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	82	87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	2105	0	82	87	2.0	4	181	207	206	18675	95%	3%	3%
OLA004	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	64	2012	0	-	-	0.0	-	181	207	-	18675	95%	3%	3%
OLA005	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	82	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	37	1969	0	82	88	2.2	5	181	208	207	18675	95%	3%	3%
OLA006	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	1932	0	-	-	0.0	-	181	207	-	18675	95%	3%	3%
OLA007	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	1937	0	81	87	2.1	5	181	208	207	18675	95%	3%	3%
OLA008	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	1861	0	-	-	0.0	-	181	207	-	18675	95%	3%	3%
OLA009	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	82	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	31	1861	0	82	88	2.1	5	181	207	207	18675	95%	3%	3%
OLA010	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	1760	0	-	-	0.0	-	181	206	-	18675	95%	3%	3%
OLA011	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	79	86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	71	1770	0	-	-	0.0	-	181	206	-	18675	95%	3%	3%
OLA012	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	1672	0	-	-	0.0	-	181	204	-	18675	95%	3%	3%
OLA013	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	1613	0	-	-	0.0	-	181	204	-	18675	95%	3%	3%
OLA014	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	80	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	28	1601	0	80	88	2.0	4	181	203	203	18675	95%	3%	3%
OLA015	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	1522	0	81	89	2.0	6	181	202	202	18675	95%	3%	3%
OLA016	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	80	87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	74	1480	0	-	-	0.0	-	181	200	-	18675	95%	3%	3%
OLA017	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	29	1234	0	-90	-89	1.9	7	181	196	196	18675	95%	3%	3%
OLA018	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	1198	0	-90	-89	1.9	2	181	196	196	18675	95%	3%	3%
OLA019	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	54	1158	0	-	-	0.0	-	181	197	-	18675	95%	3%	3%
OLA020	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	33	1064	0	-90	-88	2.0	8	181	197	197	18675	95%	3%	3%
OLA021	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	1019	0	-	-	0.0	-	181	200	-	18675	95%	3%	3%
OLA022	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	872	0	-90	-85	9.0	3	181	200	200	18675	95%	3%	3%
OLA023	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	72	83	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	83	847	0	-	-	0.0	-	181	199	-	18675	95%	3%	3%
OLA024	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	74	87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	662	0	-	-	0.0	-	181	193	-	18675	95%	3%	3%
OLA025	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	593	0	-90	-86	1.8	5	181	191	192	18675	95%	3%	3%
OLA026	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	51	66	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	218	0	55	66	6.0	3	181	183	183	18675	95%	3%	3%
OLA027	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	157	0	-90	-86	2.5	26	181	185	184	18675	95%	3%	3%
OLA028	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	50	63	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	138	0	-	-	0.0	-	181	182	-	18675	95%	3%	3%
OLA029	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-69	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	100	0	-	-	0.0	-	181	185	-	18675	95%	3%	3%
OLA030	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-51	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	62	0	-	-	0.0	-	181	184	-	18675	95%	3%	3%
OLA031	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	49	56	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	52	82	0	-	-	0.0	-	181	182	-	18675	95%	3%	3%
OLA032	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-5	52	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	72	72	0	-	-	0.0	-	181	181	-	18675	95%	3%	3%
OLA033	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	64	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	27	0	-	-	0.0	-	181	182	-	18675	95%	3%	3%
OLA034	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-30	59	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	42	0	30	59	6.0	3	181	182	182	18675	95%	3%	3%
OLA035	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-59	62	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	46	46	0	-59	-15	6.0	3	181	182	182	18675	95%	3%	3%
OLA036	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	27	0	-	-	0.0	-	181	182	-	18675	95%	3%	3%
OLA037	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-63	66	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	39	0	-	-	0.0	-	181	182	-	18675	95%	3%	3%
OLA038	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	26	0	-	-	0.0	-	181	182	-	18675	95%	3%	3%
OLA039	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-64	63	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	43	0	-	-	0.0	-	181	181	-	18675	95%	3%	3%
OLA040	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-76	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	26	0	-	-	0.0	-	182	183	-	18675	95%	3%	3%
OLA041	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-59	57	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	44	0	-	-	0.0	-	182	181	-	18675	95%	3%	3%
OLA042	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-63	45	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	40	0	35	45	6.0	3	182	182	182	18675	95%	3%	3%
OLA043	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-34	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	28	0	-34	-3	1.8	12	182	183	182	18675	95%	3%	3%
OLA044	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-67	-22	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	39	42	0	-44	-22	1.8	9	182	182	182	18675	95%	3%	3%
OLA045	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-76	-63	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	74	0	-	-	0.0	-	182	183	-	18675	95%	3%	3%
OLA046	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	64	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	80	0	-	-	0.0	-	182	185	-	18675	95%	3%	3%
OLA047	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	-81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	140	0	-87	-81	6.0	11	182	183	183	18675	95%	3%	3%
OLA048	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	66	74	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	219	0	-	-	0.0	-	182	184	-	18675	95%	3%	3%
OLA049	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	62	69	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	251	0	-	-	0.0	-	182	184	-	18675	95%	3%	3%
OLA050	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	218	0	-	-	0.0	-	182	185	-	18675	95%	3%	3%
OLA051	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	63	65	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	295	0	63	65	2.0	11	182	184	185	18675	95%	3%	3%
OLA052	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	274	0	-	-	0.0	-	182	185	-	18675	95%	3%	3%
OLA053	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	59	59	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	345	0	-	-	0.0	-	182	184	-	18675	95%	3%	3%
OLA054	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	51	54	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	385	0	51	54	2.0	12	182	184	186	18675	95%	3%	3%
OLA055	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	336	0	-	-	0.0	-	182	185	-	18675	95%	3%	3%
OLA056	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	52	56	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	430	0	52	56	2.0	13	182	185	186	18675	95%	3%	3%
OLA057	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	386	0	-	-	0.0	-	182	185	-	18675	95%	3%	3%

OLA058	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	55	60	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	476	0	55	60	2.0	10	182	185	186	18675	95%	3%	3%
OLA059	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	448	0	-	-	0.0	-	182	185	-	18675	95%	3%	3%
OLA060	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	57	63	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	527	0	57	63	1.8	15	182	186	186	18675	95%	3%	3%
OLA061	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	519	0	-	-	0.0	-	182	184	-	18675	95%	3%	3%
OLA062	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	59	66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	21	575	0	59	66	1.8	7	182	186	185	18675	95%	3%	3%
OLA063	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	24	586	0	-	-	0.0	-	182	185	-	18675	95%	3%	3%
OLA064	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	60	67	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	629	0	60	67	1.8	6	182	186	185	18675	95%	3%	3%
OLA065	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	30	659	0	-	-	0.0	-	182	183	-	18675	95%	3%	3%
OLA066	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	708	0	-	-	0.0	-	182	183	-	18675	95%	3%	3%
OLA067	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	65	72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	798	0	65	72	1.8	14	182	181	182	18675	95%	3%	3%
OLA068	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	793	0	-	-	0.0	-	182	180	-	18675	95%	3%	3%
OLA069	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	67	73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	870	0	67	73	1.8	31	182	181	180	18675	95%	3%	3%
OLA070	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	68	75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	912	0	68	75	1.8	17	182	179	178	18675	95%	3%	3%
OLA071	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	885	0	-	-	0.0	-	182	178	-	18675	95%	3%	3%
OLA072	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	39	951	0	-	-	0.0	-	182	177	-	18675	95%	3%	3%
OLA073	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	69	76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	994	0	69	76	1.9	10	182	177	177	18675	95%	3%	3%
OLA074	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	1030	0	-	-	0.0	-	182	176	-	18675	95%	3%	3%
OLA075	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	70	77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	1092	0	-	-	0.0	-	182	175	-	18675	95%	3%	3%
OLA076	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	65	71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	72	1154	0	-	-	0.0	-	182	175	-	18675	95%	3%	3%
OLA077	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	32	1313	0	-	-	0.0	-	182	174	-	18675	95%	3%	3%
OLA078	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	64	70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	64	1360	0	-	-	0.0	-	182	172	-	18675	95%	3%	3%
OLA079	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	1390	0	-	-	0.0	-	182	175	-	18675	95%	3%	3%
OLA080	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	77	84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	23	1413	0	-	-	0.0	-	182	174	-	18675	95%	3%	3%
OLA081	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	65	1435	0	-	-	0.0	-	182	175	-	18675	95%	3%	3%
OLA082	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	79	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	1775	0	-	-	0.0	-	182	181	-	18675	95%	3%	3%
OLA083	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	76	82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	1819	0	76	82	2.0	13	182	182	182	18675	95%	3%	3%
OLA084	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	71	76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	1874	0	71	76	1.6	18	182	183	182	18675	95%	3%	3%
OLA085	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	54	59	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	1973	0	54	59	2.6	8	182	182	181	18675	95%	3%	3%
OLA086	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	69	3268	0	89	90	2.0	19	182	193	194	18675	95%	3%	3%
OLA087	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	54	3307	0	89	90	2.0	55	182	194	194	18675	95%	3%	3%
OLA088	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	77	3331	0	89	90	6.0	21	182	194	194	18675	95%	3%	3%
OLA089	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	3560	0	-	-	0.0	-	182	205	-	18675	95%	3%	3%
OLA090	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	88	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	74	3583	0	-	-	0.0	-	182	205	-	18675	95%	3%	3%
OLA091	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	3961	0	-	-	0.0	-	182	203	-	18675	95%	3%	3%
OLA092	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	4107	0	-	-	0.0	-	182	203	-	18675	95%	3%	3%
OLA093	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	4205	0	90	90	1.7	17	182	202	201	18675	95%	3%	3%
OLA094	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	76	79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	4377	0	-	-	0.0	-	182	202	-	18675	95%	3%	3%
OLA095	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	68	71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	66	4448	0	-	-	0.0	-	182	202	-	18675	95%	3%	3%
OLA096	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	98	4447	0	-	-	0.0	-	182	202	-	18675	95%	3%	3%
OLA097	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	60	63	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	4502	0	60	63	1.8	5	182	202	201	18675	95%	3%	3%
OLA098	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	59	62	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	4547	0	59	62	1.8	4	182	202	202	18675	95%	3%	3%
OLA099	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	60	63	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	4674	0	-	-	0.0	-	182	201	-	18675	95%	3%	3%
OLA100	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	5095	0	-	-	0.0	-	182	202	-	18675	95%	3%	3%
OLA101	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	5163	0	-	-	0.0	-	182	201	-	18675	95%	3%	3%
OLA102	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	76	5354	0	-	-	0.0	-	182	198	-	18675	95%	3%	3%
OLA103	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	-84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	70	5524	0	-	-	0.0	-	182	197	-	18675	95%	3%	3%
OLA104	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	99	5722	0	-	-	0.0	-	182	196	-	18675	95%	3%	3%

Start of Construction - 2023 S02_NBc Kennedy Road 16th Avenue Highway 7

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	165	2397	0	-	-	0.0	-	182	209	-	18675	95%	3%	3%
OLA002	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	2341	0	-	-	0.0	-	182	207	-	18675	95%	3%	3%
OLA003	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	78	82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	2332	0	78	82	2.0	4	182	207	206	18675	95%	3%	3%
OLA004	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	77	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	64	2243	0	-	-	0.0	-	182	207	-	18675	95%	3%	3%
OLA005	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	78	82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	37	2197	0	78	82	2.2	5	182	208	207	18675	95%	3%	3%
OLA006	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	2154	0	-	-	0.0	-	182	207	-	18675	95%	3%	3%
OLA007	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	77	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	2166	0	77	81	2.1	5	182	208	207	18675	95%	3%	3%
OLA008	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	2083	0	-	-	0.0	-	182	207	-	18675	95%	3%	3%
OLA009	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	77	82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	31	2090	0	77	82	2.1	5	182	207	207	18675	95%	3%	3%
OLA010	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	1982	0	-	-	0.0	-	182	206	-	18675	95%	3%	3%
OLA011	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	75	79	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	71	2004	0	-	-	0.0	-	182	206	-	18675	95%	3%	3%
OLA012	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	1894	0	-	-	0.0	-	182	204	-	18675	95%	3%	3%
OLA013	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	1835	0	-	-	0.0	-	182	204	-	18675	95%	3%	3%
OLA014	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	76	80	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	28	1833	0	76	80	2.0	4	182	203	203	18675	95%	3%	3%
OLA015	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	76	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	1756	0	76	81	2.0	6	182	202	202	18675	95%	3%	3%
OLA016	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	75	80	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	74	1719	0	-	-	0.0	-	182	200	-	18675	95%	3%	3%
OLA017	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	29	1461	0	-	-	0.0	-	182	196	-	18675	95%	3%	3%
OLA018	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	1426	0	-	-	0.0	-	182	196	-	18675	95%	3%	3%
OLA019	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	54	1383	0	-	-	0.0	-	182	197	-	18675	95%	3%	3%
OLA020	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	33	1293	0	-	-	0.0	-	182	197	-	18675	95%	3%	3%
OLA021	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	1243	0	-	-	0.0	-	182	200	-	18675	95%	3%	3%
OLA022	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	1102	0	-	-	0.0	-	182	200	-	18675	95%	3%	3%
OLA023	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	67	72	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	83	1102	0	-	-	0.0	-	182	199	-	18675	95%	3%	3%
OLA024	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	67	74	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	917	0	-	-	0.0	-	182	193	-	18675	95%	3%	3%
OLA025	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	833	0	-	-	0.0	-	182	191	-	18675	95%	3%	3%
OLA026	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	48	51	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	520	0	-	-	0.0	-	182	183	-	18675	95%	3%	3%
OLA027	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	426	0	-	-	0.0	-	182	185	-	18675	95%	3%	3%
OLA028	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	47	50	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	446	0	-	-	0.0	-	182	182	-	18675	95%	3%	3%
OLA029	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	372	0	-	-	0.0	-	182	185	-	18675	95%	3%	3%
OLA030	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	335	0	-	-	0.0	-	182	184	-	18675	95%	3%	3%
OLA031	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	56	57	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	52	395	0	-	-	0.0	-	182	182	-	18675	95%	3%	3%
OLA032	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	52	57	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	72	348	0	-	-	0.0	-	182	181	-	18675	95%	3%	3%
OLA033	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	263	0	-	-	0.0	-	182	182	-	18675	95%	3%	3%
OLA034	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	59	63	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	311	0	59	63	6.0	3	182	182	182	18675	95%	3%	3%
OLA035	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	62	72	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	46	240	0	-	-	0.0	-	182	182	-	18675	95%	3%	3%
OLA036	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	202	0	-	-	0.0	-	182	182	-	18675	95%	3%	3%
OLA037	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	66	80	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	186	0	-	-	0.0	-	182	182	-	18675	95%	3%	3%
OLA038	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	137	0	-	-	0.0	-	182	182	-	18675	95%	3%	3%
OLA039	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	63	84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	141	0	-	-	0.0	-	182	181	-	18675	95%	3%	3%
OLA040	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-76	-76	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	80	0	-	-	0.0	-	182	183	-	18675	95%	3%	3%
OLA041	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	57	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	84	0	-	-	0.0	-	182	181	-	18675	95%	3%	3%
OLA042	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	45	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	58	0	45	90	6.0	3	182	182	182	18675	95%	3%	3%
OLA043	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-67	-34	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	34	0	-45	-34	1.8	12	182	183	182	18675	95%	3%	3%
OLA044	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-22	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	39	39	0	-22	5	1.8	9	182	182	182	18675	95%	3%	3%
OLA045	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-63	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	39	0	-	-	0.0	-	183	183	-	18675	95%	3%	3%
OLA046	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-66	64	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	30	0	-66	-45	6.0	3	183	185	185	18675	95%	3%	3%
OLA047	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-81	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	45	0	-81	-40	6.0	11	184	183	183	18675	95%	3%	3%
OLA048	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-57	66	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	35	0	-57	-18	2.0	10	184	184	184	18675	95%	3%	3%
OLA049	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-40	62	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	41	0	-40	59	2.0	25	184	184	185	18675	95%	3%	3%
OLA050	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	53	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	33	0	-	-	0.0	-	184	185	-	18675	95%	3%	3%
OLA051	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	33	63	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	31	0	33	63	2.0	11	185	184	185	18675	95%	3%	3%
OLA052	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-27	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	43	0	-	-	0.0	-	185	185	-	18675	95%	3%	3%
OLA053	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	59	60	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	77	0	59	60	2.0	19	185	184	185	18675	95%	3%	3%
OLA054	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	54	66	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	121	0	54	66	2.0	12	185	184	186	18675	95%	3%	3%
OLA055	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-77	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	100	0	-	-	0.0	-	185	185	-	18675	95%	3%	3%
OLA056	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	56	72	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	172	0	56	72	2.0	13	185	185	186	18675	95%	3%	3%
OLA057	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-83	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	154	0	-	-	0.0	-	185	185	-	18675	95%	3%	3%

OLA058	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	60	77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	225	0	60	77	2.0	10	185	185	186	18675	95%	3%	3%
OLA059	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	220	0	-	-	0.0	-	185	185	-	18675	95%	3%	3%
OLA060	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	63	78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	279	0	63	78	1.8	15	185	186	186	18675	95%	3%	3%
OLA061	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	296	0	-	-	0.0	-	185	184	-	18675	95%	3%	3%
OLA062	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	66	81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	21	334	0	66	81	1.8	7	185	186	185	18675	95%	3%	3%
OLA063	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	24	360	0	-	-	0.0	-	185	185	-	18675	95%	3%	3%
OLA064	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	67	80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	387	0	67	80	1.8	6	185	186	185	18675	95%	3%	3%
OLA065	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	30	438	0	-	-	0.0	-	185	183	-	18675	95%	3%	3%
OLA066	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	493	0	-	-	0.0	-	185	183	-	18675	95%	3%	3%
OLA067	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	72	83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	564	0	72	83	1.8	14	185	181	182	18675	95%	3%	3%
OLA068	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	579	0	-90	-88	6.0	3	185	180	180	18675	95%	3%	3%
OLA069	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	73	84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	639	0	73	84	1.8	31	185	181	180	18675	95%	3%	3%
OLA070	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	75	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	685	0	75	85	1.8	17	185	179	178	18675	95%	3%	3%
OLA071	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	672	0	-	-	0.0	-	185	178	-	18675	95%	3%	3%
OLA072	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	39	740	0	-	-	0.0	-	185	177	-	18675	95%	3%	3%
OLA073	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	76	86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	771	0	76	86	1.9	10	185	177	177	18675	95%	3%	3%
OLA074	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	822	0	-	-	0.0	-	185	176	-	18675	95%	3%	3%
OLA075	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	77	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	867	0	-	-	0.0	-	185	175	-	18675	95%	3%	3%
OLA076	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	71	79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	72	932	0	-	-	0.0	-	185	175	-	18675	95%	3%	3%
OLA077	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	32	1120	0	-	-	0.0	-	185	174	-	18675	95%	3%	3%
OLA078	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	70	78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	64	1154	0	-	-	0.0	-	185	172	-	18675	95%	3%	3%
OLA079	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	1200	0	-90	-86	6.0	3	185	175	175	18675	95%	3%	3%
OLA080	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	84	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	23	1214	0	-	-	0.0	-	185	174	-	18675	95%	3%	3%
OLA081	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	65	1248	0	-	-	0.0	-	185	175	-	18675	95%	3%	3%
OLA082	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	85	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	1574	0	-	-	0.0	-	185	181	-	18675	95%	3%	3%
OLA083	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	82	88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	1620	0	82	88	2.0	13	185	182	182	18675	95%	3%	3%
OLA084	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	76	82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	1674	0	76	82	1.6	18	185	183	182	18675	95%	3%	3%
OLA085	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	59	65	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	1779	0	59	65	2.6	8	185	182	181	18675	95%	3%	3%
OLA086	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	69	3108	0	-	-	0.0	-	185	193	-	18675	95%	3%	3%
OLA087	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	54	3148	0	-	-	0.0	-	185	194	-	18675	95%	3%	3%
OLA088	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	77	3170	0	-	-	0.0	-	185	194	-	18675	95%	3%	3%
OLA089	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	3400	0	-	-	0.0	-	185	205	-	18675	95%	3%	3%
OLA090	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	74	3421	0	-	-	0.0	-	185	205	-	18675	95%	3%	3%
OLA091	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	3799	0	-	-	0.0	-	185	203	-	18675	95%	3%	3%
OLA092	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	3945	0	-	-	0.0	-	185	203	-	18675	95%	3%	3%
OLA093	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	4042	0	-	-	0.0	-	185	202	-	18675	95%	3%	3%
OLA094	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	79	82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	4214	0	-	-	0.0	-	185	202	-	18675	95%	3%	3%
OLA095	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	71	74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	66	4284	0	-	-	0.0	-	185	202	-	18675	95%	3%	3%
OLA096	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	98	4292	0	-	-	0.0	-	185	202	-	18675	95%	3%	3%
OLA097	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	63	66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	4342	0	63	66	1.8	5	185	202	201	18675	95%	3%	3%
OLA098	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	62	65	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	4386	0	62	65	1.8	4	185	202	202	18675	95%	3%	3%
OLA099	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	63	65	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	4517	0	-	-	0.0	-	185	201	-	18675	95%	3%	3%
OLA100	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	4951	0	-	-	0.0	-	185	202	-	18675	95%	3%	3%
OLA101	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	5020	0	-	-	0.0	-	185	201	-	18675	95%	3%	3%
OLA102	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	76	5216	0	-	-	0.0	-	185	198	-	18675	95%	3%	3%
OLA103	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-84	-81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	70	5386	0	-	-	0.0	-	185	197	-	18675	95%	3%	3%
OLA104	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	99	5583	0	-	-	0.0	-	185	196	-	18675	95%	3%	3%

Start of Construction - 2023 S02_NBd Kennedy Road 16th Avenue Highway 7

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	165	2590	0	-	-	0.0	-	185	209	-	18675	95%	3%	3%
OLA002	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	2543	0	-	-	0.0	-	185	207	-	18675	95%	3%	3%
OLA003	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	78	79	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	2541	0	78	79	2.0	4	185	207	206	18675	95%	3%	3%
OLA004	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	77	78	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	64	2454	0	-	-	0.0	-	185	207	-	18675	95%	3%	3%
OLA005	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	78	79	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	37	2407	0	78	79	2.2	5	185	208	207	18675	95%	3%	3%
OLA006	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	2359	0	-	-	0.0	-	185	207	-	18675	95%	3%	3%
OLA007	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	77	78	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	2377	0	77	78	2.1	5	185	208	207	18675	95%	3%	3%
OLA008	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	2289	0	-	-	0.0	-	185	207	-	18675	95%	3%	3%
OLA009	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	77	79	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	31	2301	0	77	79	2.1	5	185	207	207	18675	95%	3%	3%
OLA010	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	2189	0	-	-	0.0	-	185	206	-	18675	95%	3%	3%
OLA011	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	75	77	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	71	2219	0	-	-	0.0	-	185	206	-	18675	95%	3%	3%
OLA012	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	2103	0	-	-	0.0	-	185	204	-	18675	95%	3%	3%
OLA013	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	2043	0	-	-	0.0	-	185	204	-	18675	95%	3%	3%
OLA014	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	76	78	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	28	2048	0	76	78	2.0	4	185	203	203	18675	95%	3%	3%
OLA015	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	76	79	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	1972	0	76	79	2.0	6	185	202	202	18675	95%	3%	3%
OLA016	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	75	78	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	74	1940	0	-	-	0.0	-	185	200	-	18675	95%	3%	3%
OLA017	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	29	1678	0	-	-	0.0	-	185	196	-	18675	95%	3%	3%
OLA018	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	1643	0	-	-	0.0	-	185	196	-	18675	95%	3%	3%
OLA019	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	54	1598	0	-	-	0.0	-	185	197	-	18675	95%	3%	3%
OLA020	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	33	1512	0	-	-	0.0	-	185	197	-	18675	95%	3%	3%
OLA021	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	1460	0	-	-	0.0	-	185	200	-	18675	95%	3%	3%
OLA022	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	1325	0	-	-	0.0	-	185	200	-	18675	95%	3%	3%
OLA023	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	67	73	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	83	1340	0	-	-	0.0	-	185	199	-	18675	95%	3%	3%
OLA024	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	67	75	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	1158	0	-	-	0.0	-	185	193	-	18675	95%	3%	3%
OLA025	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	1068	0	-	-	0.0	-	185	191	-	18675	95%	3%	3%
OLA026	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	48	66	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	785	0	55	66	6.0	3	185	183	183	18675	95%	3%	3%
OLA027	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	687	0	-	-	0.0	-	185	185	-	18675	95%	3%	3%
OLA028	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	47	68	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	713	0	-	-	0.0	-	185	182	-	18675	95%	3%	3%
OLA029	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	635	0	-	-	0.0	-	185	185	-	18675	95%	3%	3%
OLA030	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	601	0	-	-	0.0	-	185	184	-	18675	95%	3%	3%
OLA031	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	57	80	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	52	663	0	-	-	0.0	-	185	182	-	18675	95%	3%	3%
OLA032	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	57	84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	72	613	0	-	-	0.0	-	185	181	-	18675	95%	3%	3%
OLA033	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	531	0	-	-	0.0	-	185	182	-	18675	95%	3%	3%
OLA034	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	63	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	577	0	63	90	6.0	3	185	182	182	18675	95%	3%	3%
OLA035	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	72	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	46	501	0	-	-	0.0	-	185	182	-	18675	95%	3%	3%
OLA036	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-68	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	469	0	-	-	0.0	-	185	182	-	18675	95%	3%	3%
OLA037	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	80	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	445	0	-	-	0.0	-	185	182	-	18675	95%	3%	3%
OLA038	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	-57	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	405	0	-	-	0.0	-	185	182	-	18675	95%	3%	3%
OLA039	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	84	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	394	0	-	-	0.0	-	185	181	-	18675	95%	3%	3%
OLA040	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-76	-47	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	348	0	-	-	0.0	-	185	183	-	18675	95%	3%	3%
OLA041	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	328	0	-	-	0.0	-	185	181	-	18675	95%	3%	3%
OLA042	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	299	0	-	-	0.0	-	185	182	-	18675	95%	3%	3%
OLA043	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-67	-39	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	295	0	-45	-39	1.8	12	185	183	182	18675	95%	3%	3%
OLA044	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	39	243	0	-	-	0.0	-	185	182	-	18675	95%	3%	3%
OLA045	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	198	0	-	-	0.0	-	185	183	-	18675	95%	3%	3%
OLA046	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-66	-43	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	210	0	-66	-45	6.0	3	185	185	185	18675	95%	3%	3%
OLA047	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	131	0	-	-	0.0	-	185	183	-	18675	95%	3%	3%
OLA048	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-59	-57	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	76	0	-59	-57	2.0	10	185	184	184	18675	95%	3%	3%
OLA049	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-64	-40	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	55	0	-64	-40	2.0	25	185	184	185	18675	95%	3%	3%
OLA050	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	53	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	54	0	-	-	0.0	-	185	185	-	18675	95%	3%	3%
OLA051	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-70	33	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	26	0	-70	33	2.0	11	185	184	185	18675	95%	3%	3%
OLA052	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-27	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	38	0	-	-	0.0	-	185	185	-	18675	95%	3%	3%
OLA053	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-76	60	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	35	0	-76	60	2.0	19	185	184	185	18675	95%	3%	3%
OLA054	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	66	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	28	0	-87	66	2.0	12	185	184	186	18675	95%	3%	3%
OLA055	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-77	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	43	0	-	-	0.0	-	185	185	-	18675	95%	3%	3%
OLA056	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	72	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	27	0	-88	72	2.0	13	185	185	186	18675	95%	3%	3%
OLA057	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-83	86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	44	0	-	-	0.0	-	185	185	-	18675	95%	3%	3%

OLA058	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-88	77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	25	0	-88	77	2.0	10	185	185	186	18675	95%	3%	3%
OLA059	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	40	0	-	-	0.0	-	185	185	-	18675	95%	3%	3%
OLA060	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	30	0	-87	78	1.8	15	185	186	186	18675	95%	3%	3%
OLA061	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	42	0	-	-	0.0	-	185	184	-	18675	95%	3%	3%
OLA062	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-88	81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	21	23	0	-88	81	1.8	7	185	186	185	18675	95%	3%	3%
OLA063	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	24	24	0	-	-	0.0	-	185	185	-	18675	95%	3%	3%
OLA064	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-84	80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	45	0	-84	80	1.8	6	184	186	185	18675	95%	3%	3%
OLA065	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	30	30	0	-	-	0.0	-	184	183	-	18675	95%	3%	3%
OLA066	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-88	83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	41	0	25	83	6.0	3	183	183	183	18675	95%	3%	3%
OLA067	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-79	83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	51	0	-79	83	1.8	14	182	181	182	18675	95%	3%	3%
OLA068	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-88	83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	36	0	-88	-35	6.0	3	181	180	180	18675	95%	3%	3%
OLA069	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	51	0	-75	84	1.8	31	179	181	180	18675	95%	3%	3%
OLA070	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	38	0	-75	85	1.8	17	178	179	178	18675	95%	3%	3%
OLA071	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	36	0	-	-	0.0	-	178	178	-	18675	95%	3%	3%
OLA072	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	39	39	0	-	-	0.0	-	176	177	-	18675	95%	3%	3%
OLA073	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-61	86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	34	0	-61	86	1.9	10	176	177	177	18675	95%	3%	3%
OLA074	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	12	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	49	0	-	-	0.0	-	176	176	-	18675	95%	3%	3%
OLA075	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	28	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	64	0	-	-	0.0	-	176	175	-	18675	95%	3%	3%
OLA076	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	56	79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	72	109	0	-	-	0.0	-	176	175	-	18675	95%	3%	3%
OLA077	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	32	311	0	-	-	0.0	-	176	174	-	18675	95%	3%	3%
OLA078	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	78	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	64	323	0	-	-	0.0	-	176	172	-	18675	95%	3%	3%
OLA079	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	-69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	392	0	-86	-69	6.0	3	176	175	175	18675	95%	3%	3%
OLA080	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	23	390	0	-	-	0.0	-	176	174	-	18675	95%	3%	3%
OLA081	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-83	-66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	65	443	0	-	-	0.0	-	176	175	-	18675	95%	3%	3%
OLA082	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	743	0	-	-	0.0	-	176	181	-	18675	95%	3%	3%
OLA083	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	88	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	789	0	88	90	2.0	13	176	182	182	18675	95%	3%	3%
OLA084	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	82	86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	844	0	82	86	1.6	18	176	183	182	18675	95%	3%	3%
OLA085	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	65	69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	951	0	65	69	2.6	8	176	182	181	18675	95%	3%	3%
OLA086	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	69	2308	0	-	-	0.0	-	176	193	-	18675	95%	3%	3%
OLA087	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	54	2349	0	-	-	0.0	-	176	194	-	18675	95%	3%	3%
OLA088	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	77	2368	0	-	-	0.0	-	176	194	-	18675	95%	3%	3%
OLA089	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	2598	0	-	-	0.0	-	176	205	-	18675	95%	3%	3%
OLA090	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	74	2616	0	-	-	0.0	-	176	205	-	18675	95%	3%	3%
OLA091	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	2993	0	-	-	0.0	-	176	203	-	18675	95%	3%	3%
OLA092	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	3138	0	-	-	0.0	-	176	203	-	18675	95%	3%	3%
OLA093	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	3234	0	-	-	0.0	-	176	202	-	18675	95%	3%	3%
OLA094	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	82	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	3405	0	-	-	0.0	-	176	202	-	18675	95%	3%	3%
OLA095	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	74	77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	66	3475	0	-	-	0.0	-	176	202	-	18675	95%	3%	3%
OLA096	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	98	3493	0	-	-	0.0	-	176	202	-	18675	95%	3%	3%
OLA097	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	66	69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	3537	0	66	69	1.8	5	176	202	201	18675	95%	3%	3%
OLA098	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	65	68	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	3580	0	65	68	1.8	4	176	202	202	18675	95%	3%	3%
OLA099	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	65	68	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	3715	0	-	-	0.0	-	176	201	-	18675	95%	3%	3%
OLA100	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	4163	0	-	-	0.0	-	176	202	-	18675	95%	3%	3%
OLA101	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	4233	0	-	-	0.0	-	176	201	-	18675	95%	3%	3%
OLA102	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	76	4435	0	-	-	0.0	-	176	198	-	18675	95%	3%	3%
OLA103	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	70	4604	0	-	-	0.0	-	176	197	-	18675	95%	3%	3%
OLA104	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	99	4800	0	-	-	0.0	-	176	196	-	18675	95%	3%	3%

Start of Construction - 2023 S02_NBe Kennedy Road 16th Avenue Highway 7

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	165	3424	0	-	-	0.0	-	176	209	-	18675	95%	3%	3%
OLA002	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	3377	0	-	-	0.0	-	176	207	-	18675	95%	3%	3%
OLA003	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	79	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	3373	0	79	81	2.0	4	176	207	206	18675	95%	3%	3%
OLA004	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	78	80	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	64	3286	0	-	-	0.0	-	176	207	-	18675	95%	3%	3%
OLA005	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	79	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	37	3239	0	79	81	2.2	5	176	208	207	18675	95%	3%	3%
OLA006	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	3192	0	-	-	0.0	-	176	207	-	18675	95%	3%	3%
OLA007	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	78	80	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	3209	0	78	80	2.1	5	176	208	207	18675	95%	3%	3%
OLA008	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	3122	0	-	-	0.0	-	176	207	-	18675	95%	3%	3%
OLA009	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	79	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	31	3133	0	79	81	2.1	5	176	207	207	18675	95%	3%	3%
OLA010	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	3021	0	-	-	0.0	-	176	206	-	18675	95%	3%	3%
OLA011	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	77	79	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	71	3049	0	-	-	0.0	-	176	206	-	18675	95%	3%	3%
OLA012	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	2935	0	-	-	0.0	-	176	204	-	18675	95%	3%	3%
OLA013	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	2876	0	-	-	0.0	-	176	204	-	18675	95%	3%	3%
OLA014	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	78	80	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	28	2878	0	78	80	2.0	4	176	203	203	18675	95%	3%	3%
OLA015	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	79	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	2802	0	79	81	2.0	6	176	202	202	18675	95%	3%	3%
OLA016	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	78	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	74	2767	0	-	-	0.0	-	176	200	-	18675	95%	3%	3%
OLA017	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	29	2507	0	-	-	0.0	-	176	196	-	18675	95%	3%	3%
OLA018	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	2471	0	-	-	0.0	-	176	196	-	18675	95%	3%	3%
OLA019	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	54	2427	0	-	-	0.0	-	176	197	-	18675	95%	3%	3%
OLA020	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	33	2340	0	-	-	0.0	-	176	197	-	18675	95%	3%	3%
OLA021	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	2289	0	-	-	0.0	-	176	200	-	18675	95%	3%	3%
OLA022	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	2150	0	-	-	0.0	-	176	200	-	18675	95%	3%	3%
OLA023	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	73	77	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	83	2153	0	-	-	0.0	-	176	199	-	18675	95%	3%	3%
OLA024	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	75	79	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	1967	0	-	-	0.0	-	176	193	-	18675	95%	3%	3%
OLA025	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	1884	0	-	-	0.0	-	176	191	-	18675	95%	3%	3%
OLA026	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	66	72	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	1546	0	66	72	6.0	3	176	183	183	18675	95%	3%	3%
OLA027	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	1467	0	-	-	0.0	-	176	185	-	18675	95%	3%	3%
OLA028	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	68	74	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	1466	0	-	-	0.0	-	176	182	-	18675	95%	3%	3%
OLA029	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	1409	0	-	-	0.0	-	176	185	-	18675	95%	3%	3%
OLA030	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	1368	0	-	-	0.0	-	176	184	-	18675	95%	3%	3%
OLA031	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	80	87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	52	1398	0	-	-	0.0	-	176	182	-	18675	95%	3%	3%
OLA032	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	84	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	72	1328	0	-	-	0.0	-	176	181	-	18675	95%	3%	3%
OLA033	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-81	-74	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	1286	0	-	-	0.0	-	176	182	-	18675	95%	3%	3%
OLA034	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	1302	0	-	-	0.0	-	176	182	-	18675	95%	3%	3%
OLA035	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	46	1220	0	-	-	0.0	-	176	182	-	18675	95%	3%	3%
OLA036	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-68	-61	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	1224	0	-	-	0.0	-	176	182	-	18675	95%	3%	3%
OLA037	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	1168	0	-	-	0.0	-	176	182	-	18675	95%	3%	3%
OLA038	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-57	-50	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	1166	0	-	-	0.0	-	176	182	-	18675	95%	3%	3%
OLA039	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	1120	0	-	-	0.0	-	176	181	-	18675	95%	3%	3%
OLA040	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-47	-40	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	1120	0	-	-	0.0	-	176	183	-	18675	95%	3%	3%
OLA041	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	1066	0	-	-	0.0	-	176	181	-	18675	95%	3%	3%
OLA042	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	1048	0	-	-	0.0	-	176	182	-	18675	95%	3%	3%
OLA043	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-39	-32	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	1084	0	-39	-32	1.8	12	176	183	182	18675	95%	3%	3%
OLA044	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	39	1011	0	-	-	0.0	-	176	182	-	18675	95%	3%	3%
OLA045	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	980	0	-	-	0.0	-	176	183	-	18675	95%	3%	3%
OLA046	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-43	-37	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	1025	0	-	-	0.0	-	176	185	-	18675	95%	3%	3%
OLA047	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	923	0	-	-	0.0	-	176	183	-	18675	95%	3%	3%
OLA048	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-59	-54	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	910	0	-59	-54	2.0	10	176	184	184	18675	95%	3%	3%
OLA049	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-64	-59	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	884	0	-64	-59	2.0	25	176	184	185	18675	95%	3%	3%
OLA050	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	861	0	-	-	0.0	-	176	185	-	18675	95%	3%	3%
OLA051	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-70	-65	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	827	0	-70	-65	2.0	11	176	184	185	18675	95%	3%	3%
OLA052	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	805	0	-	-	0.0	-	176	185	-	18675	95%	3%	3%
OLA053	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-76	-71	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	778	0	-76	-71	2.0	19	176	184	185	18675	95%	3%	3%
OLA054	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	-81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	725	0	-87	-81	2.0	12	176	184	186	18675	95%	3%	3%
OLA055	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	88	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	737	0	-	-	0.0	-	176	185	-	18675	95%	3%	3%
OLA056	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	-83	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	671	0	-88	-83	2.0	13	176	185	186	18675	95%	3%	3%
OLA057	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	86	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	682	0	-	-	0.0	-	176	185	-	18675	95%	3%	3%

OLA058	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-88	-82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	616	0	-88	-82	2.0	10	176	185	186	18675	95%	3%	3%
OLA059	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	86	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	616	0	-	-	0.0	-	176	185	-	18675	95%	3%	3%
OLA060	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	561	0	-87	-81	1.8	15	176	186	186	18675	95%	3%	3%
OLA061	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	85	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	540	0	-	-	0.0	-	176	184	-	18675	95%	3%	3%
OLA062	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-88	-81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	21	504	0	-88	-81	1.8	7	176	186	185	18675	95%	3%	3%
OLA063	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	87	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	24	474	0	-	-	0.0	-	176	185	-	18675	95%	3%	3%
OLA064	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-84	-79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	456	0	-84	-79	1.8	6	176	186	185	18675	95%	3%	3%
OLA065	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	86	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	30	397	0	-	-	0.0	-	176	183	-	18675	95%	3%	3%
OLA066	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	83	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	344	0	83	90	6.0	3	176	183	183	18675	95%	3%	3%
OLA067	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-79	-74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	279	0	-79	-74	1.8	14	176	181	182	18675	95%	3%	3%
OLA068	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	83	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	258	0	-	-	0.0	-	176	180	-	18675	95%	3%	3%
OLA069	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	206	0	-75	-72	1.8	31	176	181	180	18675	95%	3%	3%
OLA070	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	157	0	-75	-72	1.8	17	176	179	178	18675	95%	3%	3%
OLA071	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	79	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	166	0	-	-	0.0	-	176	178	-	18675	95%	3%	3%
OLA072	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	69	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	39	101	0	-	-	0.0	-	176	177	-	18675	95%	3%	3%
OLA073	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-69	-61	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	75	0	-69	-61	1.9	10	176	177	177	18675	95%	3%	3%
OLA074	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	12	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	50	0	-	-	0.0	-	176	176	-	18675	95%	3%	3%
OLA075	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-59	28	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	61	0	-	-	0.0	-	176	175	-	18675	95%	3%	3%
OLA076	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-59	56	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	72	72	0	-	-	0.0	-	175	175	-	18675	95%	3%	3%
OLA077	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-84	15	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	32	32	0	-	-	0.0	-	172	174	-	18675	95%	3%	3%
OLA078	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	5	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	64	64	0	5	50	6.0	3	172	172	172	18675	95%	3%	3%
OLA079	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-69	-50	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	79	0	-69	-50	6.0	3	172	175	175	18675	95%	3%	3%
OLA080	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	79	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	23	79	0	-	-	0.0	-	172	174	-	18675	95%	3%	3%
OLA081	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-66	-54	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	65	128	0	-	-	0.0	-	172	175	-	18675	95%	3%	3%
OLA082	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	84	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	441	0	-	-	0.0	-	172	181	-	18675	95%	3%	3%
OLA083	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	83	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	485	0	83	90	2.0	13	172	182	182	18675	95%	3%	3%
OLA084	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	78	86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	540	0	78	86	1.6	18	172	183	182	18675	95%	3%	3%
OLA085	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	64	69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	642	0	64	69	2.6	8	172	182	181	18675	95%	3%	3%
OLA086	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	69	1990	0	-	-	0.0	-	172	193	-	18675	95%	3%	3%
OLA087	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	54	2030	0	-	-	0.0	-	172	194	-	18675	95%	3%	3%
OLA088	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	77	2050	0	-	-	0.0	-	172	194	-	18675	95%	3%	3%
OLA089	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	2280	0	-	-	0.0	-	172	205	-	18675	95%	3%	3%
OLA090	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	74	2298	0	-	-	0.0	-	172	205	-	18675	95%	3%	3%
OLA091	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	2675	0	-	-	0.0	-	172	203	-	18675	95%	3%	3%
OLA092	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	2821	0	-	-	0.0	-	172	203	-	18675	95%	3%	3%
OLA093	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	2917	0	-	-	0.0	-	172	202	-	18675	95%	3%	3%
OLA094	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	85	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	3088	0	-	-	0.0	-	172	202	-	18675	95%	3%	3%
OLA095	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	77	77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	66	3158	0	-	-	0.0	-	172	202	-	18675	95%	3%	3%
OLA096	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	98	3175	0	-	-	0.0	-	172	202	-	18675	95%	3%	3%
OLA097	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	69	69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	3219	0	69	69	1.8	5	172	202	201	18675	95%	3%	3%
OLA098	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	67	68	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	3263	0	67	68	1.8	4	172	202	202	18675	95%	3%	3%
OLA099	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	68	68	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	3397	0	-	-	0.0	-	172	201	-	18675	95%	3%	3%
OLA100	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	3845	0	-	-	0.0	-	172	202	-	18675	95%	3%	3%
OLA101	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	3915	0	-	-	0.0	-	172	201	-	18675	95%	3%	3%
OLA102	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	76	4117	0	-	-	0.0	-	172	198	-	18675	95%	3%	3%
OLA103	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-78	-78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	70	4286	0	-	-	0.0	-	172	197	-	18675	95%	3%	3%
OLA104	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-69	-69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	99	4482	0	-	-	0.0	-	172	196	-	18675	95%	3%	3%

Start of Construction - 2023 S02_NBf Kennedy Road 16th Avenue Highway 7

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	165	3724	0	-	-	0.0	-	172	209	-	18675	95%	3%	3%
OLA002	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	3673	0	-	-	0.0	-	172	207	-	18675	95%	3%	3%
OLA003	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	3666	0	81	81	2.0	4	172	207	206	18675	95%	3%	3%
OLA004	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	80	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	64	3577	0	-	-	0.0	-	172	207	-	18675	95%	3%	3%
OLA005	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	37	3531	0	81	81	2.2	5	172	208	207	18675	95%	3%	3%
OLA006	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	3486	0	-	-	0.0	-	172	207	-	18675	95%	3%	3%
OLA007	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	80	80	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	3500	0	80	80	2.1	5	172	208	207	18675	95%	3%	3%
OLA008	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	3416	0	-	-	0.0	-	172	207	-	18675	95%	3%	3%
OLA009	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	31	3424	0	81	81	2.1	5	172	207	207	18675	95%	3%	3%
OLA010	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	3315	0	-	-	0.0	-	172	206	-	18675	95%	3%	3%
OLA011	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	79	80	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	71	3338	0	-	-	0.0	-	172	206	-	18675	95%	3%	3%
OLA012	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	3227	0	-	-	0.0	-	172	204	-	18675	95%	3%	3%
OLA013	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	3168	0	-	-	0.0	-	172	204	-	18675	95%	3%	3%
OLA014	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	80	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	28	3167	0	80	81	2.0	4	172	203	203	18675	95%	3%	3%
OLA015	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	3090	0	81	82	2.0	6	172	202	202	18675	95%	3%	3%
OLA016	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	74	3053	0	-	-	0.0	-	172	200	-	18675	95%	3%	3%
OLA017	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	29	2796	0	-	-	0.0	-	172	196	-	18675	95%	3%	3%
OLA018	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	2760	0	-	-	0.0	-	172	196	-	18675	95%	3%	3%
OLA019	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	54	2717	0	-	-	0.0	-	172	197	-	18675	95%	3%	3%
OLA020	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	33	2627	0	-	-	0.0	-	172	197	-	18675	95%	3%	3%
OLA021	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	2577	0	-	-	0.0	-	172	200	-	18675	95%	3%	3%
OLA022	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	2436	0	-	-	0.0	-	172	200	-	18675	95%	3%	3%
OLA023	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	77	78	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	83	2431	0	-	-	0.0	-	172	199	-	18675	95%	3%	3%
OLA024	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	79	80	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	2244	0	-	-	0.0	-	172	193	-	18675	95%	3%	3%
OLA025	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	2165	0	-	-	0.0	-	172	191	-	18675	95%	3%	3%
OLA026	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	72	74	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	1808	0	72	74	6.0	3	172	183	183	18675	95%	3%	3%
OLA027	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	1738	0	-	-	0.0	-	172	185	-	18675	95%	3%	3%
OLA028	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	74	76	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	1727	0	-	-	0.0	-	172	182	-	18675	95%	3%	3%
OLA029	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	1679	0	-	-	0.0	-	172	185	-	18675	95%	3%	3%
OLA030	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	1637	0	-	-	0.0	-	172	184	-	18675	95%	3%	3%
OLA031	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	87	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	52	1656	0	-	-	0.0	-	172	182	-	18675	95%	3%	3%
OLA032	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	72	1582	0	-	-	0.0	-	172	181	-	18675	95%	3%	3%
OLA033	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-74	-72	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	1554	0	-	-	0.0	-	172	182	-	18675	95%	3%	3%
OLA034	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	1561	0	-	-	0.0	-	172	182	-	18675	95%	3%	3%
OLA035	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	46	1480	0	-	-	0.0	-	172	182	-	18675	95%	3%	3%
OLA036	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-61	-60	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	1494	0	-	-	0.0	-	172	182	-	18675	95%	3%	3%
OLA037	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	1432	0	-	-	0.0	-	172	182	-	18675	95%	3%	3%
OLA038	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-50	-49	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	1439	0	-	-	0.0	-	172	182	-	18675	95%	3%	3%
OLA039	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	1387	0	-	-	0.0	-	172	181	-	18675	95%	3%	3%
OLA040	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-40	-39	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	1398	0	-	-	0.0	-	172	183	-	18675	95%	3%	3%
OLA041	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	1339	0	-	-	0.0	-	172	181	-	18675	95%	3%	3%
OLA042	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	1325	0	-	-	0.0	-	172	182	-	18675	95%	3%	3%
OLA043	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-32	-31	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	1368	0	-32	-31	1.8	12	172	183	182	18675	95%	3%	3%
OLA044	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	39	1293	0	-	-	0.0	-	172	182	-	18675	95%	3%	3%
OLA045	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	1266	0	-	-	0.0	-	172	183	-	18675	95%	3%	3%
OLA046	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-37	-37	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	1317	0	-	-	0.0	-	172	185	-	18675	95%	3%	3%
OLA047	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	1215	0	-	-	0.0	-	172	183	-	18675	95%	3%	3%
OLA048	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-54	-54	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	1213	0	-54	-54	2.0	10	172	184	184	18675	95%	3%	3%
OLA049	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-59	-59	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	1189	0	-59	-59	2.0	25	172	184	185	18675	95%	3%	3%
OLA050	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	1159	0	-	-	0.0	-	172	185	-	18675	95%	3%	3%
OLA051	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-65	-65	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	1132	0	-65	-65	2.0	11	172	184	185	18675	95%	3%	3%
OLA052	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	1104	0	-	-	0.0	-	172	185	-	18675	95%	3%	3%
OLA053	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-72	-71	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	1086	0	-72	-71	2.0	19	172	184	185	18675	95%	3%	3%
OLA054	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-82	-81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	1033	0	-82	-81	2.0	12	172	184	186	18675	95%	3%	3%
OLA055	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	1038	0	-	-	0.0	-	172	185	-	18675	95%	3%	3%
OLA056	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-84	-83	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	980	0	-84	-83	2.0	13	172	185	186	18675	95%	3%	3%
OLA057	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	983	0	-	-	0.0	-	172	185	-	18675	95%	3%	3%

OLA058	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-84	-82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	925	0	-84	-82	2.0	10	172	185	186	18675	95%	3%	3%
OLA059	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	918	0	-	-	0.0	-	172	185	-	18675	95%	3%	3%
OLA060	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-83	-81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	871	0	-83	-81	1.8	15	172	186	186	18675	95%	3%	3%
OLA061	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	841	0	-	-	0.0	-	172	184	-	18675	95%	3%	3%
OLA062	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-83	-81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	21	814	0	-83	-81	1.8	7	172	186	185	18675	95%	3%	3%
OLA063	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	24	778	0	-	-	0.0	-	172	185	-	18675	95%	3%	3%
OLA064	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	768	0	-81	-79	1.8	6	172	186	185	18675	95%	3%	3%
OLA065	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	30	700	0	-	-	0.0	-	172	183	-	18675	95%	3%	3%
OLA066	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	645	0	-	-	0.0	-	172	183	-	18675	95%	3%	3%
OLA067	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-78	-74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	595	0	-78	-74	1.8	14	172	181	182	18675	95%	3%	3%
OLA068	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	560	0	-	-	0.0	-	172	180	-	18675	95%	3%	3%
OLA069	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-76	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	524	0	-76	-72	1.8	31	172	181	180	18675	95%	3%	3%
OLA070	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	474	0	-77	-72	1.8	17	172	179	178	18675	95%	3%	3%
OLA071	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	467	0	-	-	0.0	-	172	178	-	18675	95%	3%	3%
OLA072	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	39	400	0	-	-	0.0	-	172	177	-	18675	95%	3%	3%
OLA073	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	392	0	-75	-69	1.9	10	172	177	177	18675	95%	3%	3%
OLA074	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	318	0	-	-	0.0	-	172	176	-	18675	95%	3%	3%
OLA075	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-70	-59	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	315	0	-	-	0.0	-	172	175	-	18675	95%	3%	3%
OLA076	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-59	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	72	257	0	-	-	0.0	-	172	175	-	18675	95%	3%	3%
OLA077	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	15	66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	32	34	0	30	66	6.0	3	172	174	174	18675	95%	3%	3%
OLA078	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-83	5	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	64	64	0	-83	5	6.0	3	172	172	172	18675	95%	3%	3%
OLA079	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-50	71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	44	0	-50	-40	6.0	3	173	175	175	18675	95%	3%	3%
OLA080	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-83	79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	23	23	0	-83	-76	1.7	30	173	174	174	18675	95%	3%	3%
OLA081	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-54	58	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	65	65	0	-	-	0.0	-	173	175	-	18675	95%	3%	3%
OLA082	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	78	84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	231	0	-	-	0.0	-	174	181	-	18675	95%	3%	3%
OLA083	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	79	83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	274	0	79	83	2.0	13	174	182	182	18675	95%	3%	3%
OLA084	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	75	78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	328	0	75	78	1.6	18	174	183	182	18675	95%	3%	3%
OLA085	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	64	64	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	429	0	64	64	2.6	8	174	182	181	18675	95%	3%	3%
OLA086	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	69	1785	0	-	-	0.0	-	174	193	-	18675	95%	3%	3%
OLA087	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	54	1826	0	-	-	0.0	-	174	194	-	18675	95%	3%	3%
OLA088	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	77	1845	0	-	-	0.0	-	174	194	-	18675	95%	3%	3%
OLA089	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	2074	0	-	-	0.0	-	174	205	-	18675	95%	3%	3%
OLA090	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	74	2091	0	-	-	0.0	-	174	205	-	18675	95%	3%	3%
OLA091	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	2468	0	-	-	0.0	-	174	203	-	18675	95%	3%	3%
OLA092	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	2613	0	-	-	0.0	-	174	203	-	18675	95%	3%	3%
OLA093	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	2709	0	-	-	0.0	-	174	202	-	18675	95%	3%	3%
OLA094	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	85	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	2880	0	-	-	0.0	-	174	202	-	18675	95%	3%	3%
OLA095	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	77	77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	66	2950	0	-	-	0.0	-	174	202	-	18675	95%	3%	3%
OLA096	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	98	2969	0	-	-	0.0	-	174	202	-	18675	95%	3%	3%
OLA097	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	69	70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	3011	0	69	70	1.8	5	174	202	201	18675	95%	3%	3%
OLA098	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	67	68	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	3055	0	67	68	1.8	4	174	202	202	18675	95%	3%	3%
OLA099	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	68	69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	3190	0	-	-	0.0	-	174	201	-	18675	95%	3%	3%
OLA100	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	3642	0	-	-	0.0	-	174	202	-	18675	95%	3%	3%
OLA101	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	3712	0	-	-	0.0	-	174	201	-	18675	95%	3%	3%
OLA102	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	76	3916	0	-	-	0.0	-	174	198	-	18675	95%	3%	3%
OLA103	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-78	-77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	70	4085	0	-	-	0.0	-	174	197	-	18675	95%	3%	3%
OLA104	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-69	-68	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	99	4280	0	-	-	0.0	-	174	196	-	18675	95%	3%	3%

Start of Construction - 2023 S03_NBa Kennedy Road Highway 7 Highway 407

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	165	3937	0	-	-	0.0	-	174	209	-	25358	93%	3%	4%
OLA002	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	3885	0	-	-	0.0	-	174	207	-	25358	93%	3%	4%
OLA003	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	3878	0	81	81	2.0	4	174	207	206	25358	93%	3%	4%
OLA004	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	64	3789	0	-	-	0.0	-	174	207	-	25358	93%	3%	4%
OLA005	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	37	3743	0	81	82	2.2	5	174	208	207	25358	93%	3%	4%
OLA006	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	3699	0	-	-	0.0	-	174	207	-	25358	93%	3%	4%
OLA007	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	80	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	3712	0	80	81	2.1	5	174	208	207	25358	93%	3%	4%
OLA008	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	3628	0	-	-	0.0	-	174	207	-	25358	93%	3%	4%
OLA009	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	31	3636	0	81	81	2.1	5	174	207	207	25358	93%	3%	4%
OLA010	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	3527	0	-	-	0.0	-	174	206	-	25358	93%	3%	4%
OLA011	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	80	80	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	71	3550	0	-	-	0.0	-	174	206	-	25358	93%	3%	4%
OLA012	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	3440	0	-	-	0.0	-	174	204	-	25358	93%	3%	4%
OLA013	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	3380	0	-	-	0.0	-	174	204	-	25358	93%	3%	4%
OLA014	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	28	3379	0	81	81	2.0	4	174	203	203	25358	93%	3%	4%
OLA015	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	82	82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	3301	0	82	82	2.0	6	174	202	202	25358	93%	3%	4%
OLA016	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	74	3264	0	-	-	0.0	-	174	200	-	25358	93%	3%	4%
OLA017	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	29	3007	0	-	-	0.0	-	174	196	-	25358	93%	3%	4%
OLA018	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	2972	0	-	-	0.0	-	174	196	-	25358	93%	3%	4%
OLA019	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	54	2929	0	-	-	0.0	-	174	197	-	25358	93%	3%	4%
OLA020	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	33	2839	0	-	-	0.0	-	174	197	-	25358	93%	3%	4%
OLA021	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	2789	0	-	-	0.0	-	174	200	-	25358	93%	3%	4%
OLA022	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	2647	0	-	-	0.0	-	174	200	-	25358	93%	3%	4%
OLA023	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	78	78	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	83	2641	0	-	-	0.0	-	174	199	-	25358	93%	3%	4%
OLA024	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	80	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	2454	0	-	-	0.0	-	174	193	-	25358	93%	3%	4%
OLA025	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	2375	0	-	-	0.0	-	174	191	-	25358	93%	3%	4%
OLA026	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	74	75	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	2015	0	74	75	6.0	3	174	183	183	25358	93%	3%	4%
OLA027	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	1947	0	-	-	0.0	-	174	185	-	25358	93%	3%	4%
OLA028	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	76	77	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	1934	0	-	-	0.0	-	174	182	-	25358	93%	3%	4%
OLA029	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	1888	0	-	-	0.0	-	174	185	-	25358	93%	3%	4%
OLA030	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	1846	0	-	-	0.0	-	174	184	-	25358	93%	3%	4%
OLA031	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	52	1861	0	-	-	0.0	-	174	182	-	25358	93%	3%	4%
OLA032	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	72	1787	0	-	-	0.0	-	174	181	-	25358	93%	3%	4%
OLA033	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-72	-71	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	1762	0	-	-	0.0	-	174	182	-	25358	93%	3%	4%
OLA034	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	1767	0	-	-	0.0	-	174	182	-	25358	93%	3%	4%
OLA035	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	46	1687	0	-	-	0.0	-	174	182	-	25358	93%	3%	4%
OLA036	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-60	-59	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	1703	0	-	-	0.0	-	174	182	-	25358	93%	3%	4%
OLA037	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	1640	0	-	-	0.0	-	174	182	-	25358	93%	3%	4%
OLA038	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-49	-48	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	1649	0	-	-	0.0	-	174	182	-	25358	93%	3%	4%
OLA039	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	1596	0	-	-	0.0	-	174	181	-	25358	93%	3%	4%
OLA040	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-39	-38	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	1609	0	-	-	0.0	-	174	183	-	25358	93%	3%	4%
OLA041	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	1549	0	-	-	0.0	-	174	181	-	25358	93%	3%	4%
OLA042	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	1535	0	-	-	0.0	-	174	182	-	25358	93%	3%	4%
OLA043	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-31	-31	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	1580	0	-31	-31	1.8	12	174	183	182	25358	93%	3%	4%
OLA044	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	39	1505	0	-	-	0.0	-	174	182	-	25358	93%	3%	4%
OLA045	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	1479	0	-	-	0.0	-	174	183	-	25358	93%	3%	4%
OLA046	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-37	-37	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	1530	0	-	-	0.0	-	174	185	-	25358	93%	3%	4%
OLA047	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	1428	0	-	-	0.0	-	174	183	-	25358	93%	3%	4%
OLA048	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-54	-54	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	1425	0	-54	-54	2.0	10	174	184	184	25358	93%	3%	4%
OLA049	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-60	-59	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	1401	0	-60	-59	2.0	25	174	184	185	25358	93%	3%	4%
OLA050	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	1372	0	-	-	0.0	-	174	185	-	25358	93%	3%	4%
OLA051	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-66	-65	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	1345	0	-66	-65	2.0	11	174	184	185	25358	93%	3%	4%
OLA052	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	1317	0	-	-	0.0	-	174	185	-	25358	93%	3%	4%
OLA053	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-73	-72	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	1298	0	-73	-72	2.0	19	174	184	185	25358	93%	3%	4%
OLA054	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-84	-82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	1245	0	-84	-82	2.0	12	174	184	186	25358	93%	3%	4%
OLA055	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	1251	0	-	-	0.0	-	174	185	-	25358	93%	3%	4%
OLA056	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-85	-84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	1192	0	-85	-84	2.0	13	174	185	186	25358	93%	3%	4%
OLA057	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	1196	0	-	-	0.0	-	174	185	-	25358	93%	3%	4%

OLA058	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-85	-84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	1137	0	-85	-84	2.0	10	174	185	186	25358	93%	3%	4%
OLA059	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	1130	0	-	-	0.0	-	174	185	-	25358	93%	3%	4%
OLA060	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-84	-83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	1083	0	-84	-83	1.8	15	174	186	186	25358	93%	3%	4%
OLA061	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	1054	0	-	-	0.0	-	174	184	-	25358	93%	3%	4%
OLA062	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-85	-83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	21	1026	0	-85	-83	1.8	7	174	186	185	25358	93%	3%	4%
OLA063	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	24	991	0	-	-	0.0	-	174	185	-	25358	93%	3%	4%
OLA064	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-83	-81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	979	0	-83	-81	1.8	6	174	186	185	25358	93%	3%	4%
OLA065	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	30	913	0	-	-	0.0	-	174	183	-	25358	93%	3%	4%
OLA066	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	858	0	-	-	0.0	-	174	183	-	25358	93%	3%	4%
OLA067	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	804	0	-81	-78	1.8	14	174	181	182	25358	93%	3%	4%
OLA068	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	772	0	-	-	0.0	-	174	180	-	25358	93%	3%	4%
OLA069	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-80	-76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	731	0	-80	-76	1.8	31	174	181	180	25358	93%	3%	4%
OLA070	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	682	0	-81	-77	1.8	17	174	179	178	25358	93%	3%	4%
OLA071	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	679	0	-	-	0.0	-	174	178	-	25358	93%	3%	4%
OLA072	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	39	612	0	-	-	0.0	-	174	177	-	25358	93%	3%	4%
OLA073	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-80	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	598	0	-80	-75	1.9	10	174	177	177	25358	93%	3%	4%
OLA074	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	530	0	-	-	0.0	-	174	176	-	25358	93%	3%	4%
OLA075	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	513	0	-	-	0.0	-	174	175	-	25358	93%	3%	4%
OLA076	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-84	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	72	448	0	-	-	0.0	-	174	175	-	25358	93%	3%	4%
OLA077	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	66	69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	32	233	0	66	69	6.0	3	174	174	174	25358	93%	3%	4%
OLA078	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	64	206	0	-90	-83	6.0	3	174	172	172	25358	93%	3%	4%
OLA079	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	72	82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	161	0	-	-	0.0	-	174	175	-	25358	93%	3%	4%
OLA080	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	-83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	23	136	0	-89	-83	1.7	30	174	174	174	25358	93%	3%	4%
OLA081	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	58	81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	65	128	0	-	-	0.0	-	174	175	-	25358	93%	3%	4%
OLA082	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-60	78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	42	0	-60	43	1.8	15	180	181	181	25358	93%	3%	4%
OLA083	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-51	79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	30	0	-51	79	2.0	13	181	182	182	25358	93%	3%	4%
OLA084	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	19	75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	36	0	19	75	1.6	18	182	183	182	25358	93%	3%	4%
OLA085	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	64	70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	120	0	64	70	2.6	8	182	182	181	25358	93%	3%	4%
OLA086	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	69	1495	0	-	-	0.0	-	182	193	-	25358	93%	3%	4%
OLA087	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	54	1536	0	-	-	0.0	-	182	194	-	25358	93%	3%	4%
OLA088	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	77	1553	0	-	-	0.0	-	182	194	-	25358	93%	3%	4%
OLA089	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	1781	0	-	-	0.0	-	182	205	-	25358	93%	3%	4%
OLA090	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	74	1796	0	-	-	0.0	-	182	205	-	25358	93%	3%	4%
OLA091	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	2171	0	-	-	0.0	-	182	203	-	25358	93%	3%	4%
OLA092	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	2316	0	-	-	0.0	-	182	203	-	25358	93%	3%	4%
OLA093	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	2411	0	-	-	0.0	-	182	202	-	25358	93%	3%	4%
OLA094	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	85	87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	2580	0	-	-	0.0	-	182	202	-	25358	93%	3%	4%
OLA095	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	77	79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	66	2650	0	-	-	0.0	-	182	202	-	25358	93%	3%	4%
OLA096	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	98	2676	0	-	-	0.0	-	182	202	-	25358	93%	3%	4%
OLA097	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	70	71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	2714	0	70	71	1.8	5	182	202	201	25358	93%	3%	4%
OLA098	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	68	70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	2757	0	68	70	1.8	4	182	202	202	25358	93%	3%	4%
OLA099	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	69	71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	2894	0	-	-	0.0	-	182	201	-	25358	93%	3%	4%
OLA100	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	3353	0	-	-	0.0	-	182	202	-	25358	93%	3%	4%
OLA101	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	3424	0	-	-	0.0	-	182	201	-	25358	93%	3%	4%
OLA102	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	76	3630	0	-	-	0.0	-	182	198	-	25358	93%	3%	4%
OLA103	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	70	3798	0	-	-	0.0	-	182	197	-	25358	93%	3%	4%
OLA104	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-68	-67	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	99	3992	0	-	-	0.0	-	182	196	-	25358	93%	3%	4%

Start of Construction - 2023 S03_NBb Kennedy Road Highway 7 Highway 407

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	165	4246	0	-	-	0.0	-	182	209	-	25358	93%	3%	4%
OLA002	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	4194	0	-	-	0.0	-	182	207	-	25358	93%	3%	4%
OLA003	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	4187	0	81	82	2.0	4	182	207	206	25358	93%	3%	4%
OLA004	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	64	4098	0	-	-	0.0	-	182	207	-	25358	93%	3%	4%
OLA005	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	82	83	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	37	4052	0	82	83	2.2	5	182	208	207	25358	93%	3%	4%
OLA006	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	4008	0	-	-	0.0	-	182	207	-	25358	93%	3%	4%
OLA007	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	4021	0	81	82	2.1	5	182	208	207	25358	93%	3%	4%
OLA008	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	3937	0	-	-	0.0	-	182	207	-	25358	93%	3%	4%
OLA009	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	83	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	31	3945	0	81	83	2.1	5	182	207	207	25358	93%	3%	4%
OLA010	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	3836	0	-	-	0.0	-	182	206	-	25358	93%	3%	4%
OLA011	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	80	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	71	3859	0	-	-	0.0	-	182	206	-	25358	93%	3%	4%
OLA012	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	3749	0	-	-	0.0	-	182	204	-	25358	93%	3%	4%
OLA013	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	3689	0	-	-	0.0	-	182	204	-	25358	93%	3%	4%
OLA014	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	28	3688	0	81	82	2.0	4	182	203	203	25358	93%	3%	4%
OLA015	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	82	83	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	3610	0	82	83	2.0	6	182	202	202	25358	93%	3%	4%
OLA016	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	82	83	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	74	3573	0	-	-	0.0	-	182	200	-	25358	93%	3%	4%
OLA017	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	29	3316	0	-	-	0.0	-	182	196	-	25358	93%	3%	4%
OLA018	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	3281	0	-	-	0.0	-	182	196	-	25358	93%	3%	4%
OLA019	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	54	3238	0	-	-	0.0	-	182	197	-	25358	93%	3%	4%
OLA020	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	33	3147	0	-	-	0.0	-	182	197	-	25358	93%	3%	4%
OLA021	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	3098	0	-	-	0.0	-	182	200	-	25358	93%	3%	4%
OLA022	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	2956	0	-	-	0.0	-	182	200	-	25358	93%	3%	4%
OLA023	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	78	80	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	83	2948	0	-	-	0.0	-	182	199	-	25358	93%	3%	4%
OLA024	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	83	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	2761	0	-	-	0.0	-	182	193	-	25358	93%	3%	4%
OLA025	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	2683	0	-	-	0.0	-	182	191	-	25358	93%	3%	4%
OLA026	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	75	77	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	2319	0	75	77	6.0	3	182	183	183	25358	93%	3%	4%
OLA027	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	2254	0	-	-	0.0	-	182	185	-	25358	93%	3%	4%
OLA028	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	77	80	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	2239	0	-	-	0.0	-	182	182	-	25358	93%	3%	4%
OLA029	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	2194	0	-	-	0.0	-	182	185	-	25358	93%	3%	4%
OLA030	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	2152	0	-	-	0.0	-	182	184	-	25358	93%	3%	4%
OLA031	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	52	2166	0	-	-	0.0	-	182	182	-	25358	93%	3%	4%
OLA032	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	72	2091	0	-	-	0.0	-	182	181	-	25358	93%	3%	4%
OLA033	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-71	-68	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	2068	0	-	-	0.0	-	182	182	-	25358	93%	3%	4%
OLA034	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	2072	0	-	-	0.0	-	182	182	-	25358	93%	3%	4%
OLA035	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	46	1992	0	-	-	0.0	-	182	182	-	25358	93%	3%	4%
OLA036	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-59	-56	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	2010	0	-	-	0.0	-	182	182	-	25358	93%	3%	4%
OLA037	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	1946	0	-	-	0.0	-	182	182	-	25358	93%	3%	4%
OLA038	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-48	-45	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	1957	0	-	-	0.0	-	182	182	-	25358	93%	3%	4%
OLA039	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	1902	0	-	-	0.0	-	182	181	-	25358	93%	3%	4%
OLA040	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-38	-36	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	1918	0	-	-	0.0	-	182	183	-	25358	93%	3%	4%
OLA041	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	1857	0	-	-	0.0	-	182	181	-	25358	93%	3%	4%
OLA042	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	1844	0	-	-	0.0	-	182	182	-	25358	93%	3%	4%
OLA043	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-31	-29	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	1889	0	-31	-29	1.8	12	182	183	182	25358	93%	3%	4%
OLA044	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	39	1814	0	-	-	0.0	-	182	182	-	25358	93%	3%	4%
OLA045	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	1788	0	-	-	0.0	-	182	183	-	25358	93%	3%	4%
OLA046	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-37	-34	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	1839	0	-	-	0.0	-	182	185	-	25358	93%	3%	4%
OLA047	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	1737	0	-	-	0.0	-	182	183	-	25358	93%	3%	4%
OLA048	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-54	-53	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	1734	0	-54	-53	2.0	10	182	184	184	25358	93%	3%	4%
OLA049	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-60	-58	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	1710	0	-60	-58	2.0	25	182	184	185	25358	93%	3%	4%
OLA050	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	1681	0	-	-	0.0	-	182	185	-	25358	93%	3%	4%
OLA051	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-66	-64	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	1653	0	-66	-64	2.0	11	182	184	185	25358	93%	3%	4%
OLA052	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	1626	0	-	-	0.0	-	182	185	-	25358	93%	3%	4%
OLA053	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-73	-71	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	1606	0	-73	-71	2.0	19	182	184	185	25358	93%	3%	4%
OLA054	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-84	-82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	1553	0	-84	-82	2.0	12	182	184	186	25358	93%	3%	4%
OLA055	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	1560	0	-	-	0.0	-	182	185	-	25358	93%	3%	4%
OLA056	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-85	-83	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	1500	0	-85	-83	2.0	13	182	185	186	25358	93%	3%	4%
OLA057	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	1505	0	-	-	0.0	-	182	185	-	25358	93%	3%	4%

OLA058	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-85	-83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	1444	0	-85	-83	2.0	10	182	185	186	25358	93%	3%	4%
OLA059	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	1439	0	-	-	0.0	-	182	185	-	25358	93%	3%	4%
OLA060	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-84	-82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	1390	0	-84	-82	1.8	15	182	186	186	25358	93%	3%	4%
OLA061	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	1363	0	-	-	0.0	-	182	184	-	25358	93%	3%	4%
OLA062	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-85	-82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	21	1333	0	-85	-82	1.8	7	182	186	185	25358	93%	3%	4%
OLA063	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	24	1299	0	-	-	0.0	-	182	185	-	25358	93%	3%	4%
OLA064	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-83	-81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	1286	0	-83	-81	1.8	6	182	186	185	25358	93%	3%	4%
OLA065	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	30	1221	0	-	-	0.0	-	182	183	-	25358	93%	3%	4%
OLA066	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	1166	0	-	-	0.0	-	182	183	-	25358	93%	3%	4%
OLA067	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	1109	0	-81	-79	1.8	14	182	181	182	25358	93%	3%	4%
OLA068	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	1081	0	-	-	0.0	-	182	180	-	25358	93%	3%	4%
OLA069	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-80	-78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	1035	0	-80	-78	1.8	31	182	181	180	25358	93%	3%	4%
OLA070	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	986	0	-81	-78	1.8	17	182	179	178	25358	93%	3%	4%
OLA071	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	988	0	-	-	0.0	-	182	178	-	25358	93%	3%	4%
OLA072	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	39	920	0	-	-	0.0	-	182	177	-	25358	93%	3%	4%
OLA073	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-80	-78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	901	0	-80	-78	1.9	10	182	177	177	25358	93%	3%	4%
OLA074	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	838	0	-	-	0.0	-	182	176	-	25358	93%	3%	4%
OLA075	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	811	0	-	-	0.0	-	182	175	-	25358	93%	3%	4%
OLA076	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-84	-81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	72	745	0	-	-	0.0	-	182	175	-	25358	93%	3%	4%
OLA077	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	69	75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	32	542	0	69	75	6.0	3	182	174	174	25358	93%	3%	4%
OLA078	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	64	508	0	-	-	0.0	-	182	172	-	25358	93%	3%	4%
OLA079	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	82	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	466	0	-	-	0.0	-	182	175	-	25358	93%	3%	4%
OLA080	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	-83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	23	445	0	-89	-83	1.7	30	182	174	174	25358	93%	3%	4%
OLA081	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	81	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	65	424	0	-	-	0.0	-	182	175	-	25358	93%	3%	4%
OLA082	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-63	-60	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	96	0	-63	-60	1.8	15	182	181	181	25358	93%	3%	4%
OLA083	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-65	-51	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	52	0	-65	-51	2.0	13	182	182	182	25358	93%	3%	4%
OLA084	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-63	19	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	34	0	-63	19	1.6	18	182	183	182	25358	93%	3%	4%
OLA085	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-59	70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	27	0	-59	70	2.6	8	180	182	181	25358	93%	3%	4%
OLA086	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	69	1330	0	-	-	0.0	-	179	193	-	25358	93%	3%	4%
OLA087	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	54	1371	0	-	-	0.0	-	179	194	-	25358	93%	3%	4%
OLA088	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	77	1388	0	-	-	0.0	-	179	194	-	25358	93%	3%	4%
OLA089	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	1617	0	-	-	0.0	-	179	205	-	25358	93%	3%	4%
OLA090	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	74	1632	0	-	-	0.0	-	179	205	-	25358	93%	3%	4%
OLA091	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	2007	0	-	-	0.0	-	179	203	-	25358	93%	3%	4%
OLA092	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	2152	0	-	-	0.0	-	179	203	-	25358	93%	3%	4%
OLA093	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	2248	0	-	-	0.0	-	179	202	-	25358	93%	3%	4%
OLA094	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	86	87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	2418	0	-	-	0.0	-	179	202	-	25358	93%	3%	4%
OLA095	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	78	79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	66	2488	0	-	-	0.0	-	179	202	-	25358	93%	3%	4%
OLA096	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	98	2512	0	-	-	0.0	-	179	202	-	25358	93%	3%	4%
OLA097	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	71	71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	2551	0	71	71	1.8	5	179	202	201	25358	93%	3%	4%
OLA098	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	69	70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	2594	0	69	70	1.8	4	179	202	202	25358	93%	3%	4%
OLA099	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	70	71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	2730	0	-	-	0.0	-	179	201	-	25358	93%	3%	4%
OLA100	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	3188	0	-	-	0.0	-	179	202	-	25358	93%	3%	4%
OLA101	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	3259	0	-	-	0.0	-	179	201	-	25358	93%	3%	4%
OLA102	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	76	3465	0	-	-	0.0	-	179	198	-	25358	93%	3%	4%
OLA103	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	70	3633	0	-	-	0.0	-	179	197	-	25358	93%	3%	4%
OLA104	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-67	-67	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	99	3827	0	-	-	0.0	-	179	196	-	25358	93%	3%	4%

Start of Construction - 2023 S03_NBc Kennedy Road Highway 7 Highway 407

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	165	4397	0	-90	-88	2.0	7	179	209	209	25358	93%	3%	4%
OLA002	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	4343	0	-	-	0.0	-	179	207	-	25358	93%	3%	4%
OLA003	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	82	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	4334	0	82	89	2.0	4	179	207	206	25358	93%	3%	4%
OLA004	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	82	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	64	4244	0	-	-	0.0	-	179	207	-	25358	93%	3%	4%
OLA005	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	83	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	37	4199	0	83	90	2.2	5	179	208	207	25358	93%	3%	4%
OLA006	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	4156	0	-90	-90	2.1	6	179	207	207	25358	93%	3%	4%
OLA007	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	82	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	4168	0	82	89	2.1	5	179	208	207	25358	93%	3%	4%
OLA008	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	4085	0	-	-	0.0	-	179	207	-	25358	93%	3%	4%
OLA009	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	83	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	31	4091	0	83	90	2.1	5	179	207	207	25358	93%	3%	4%
OLA010	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	3984	0	-90	-90	1.9	8	179	206	206	25358	93%	3%	4%
OLA011	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	71	4004	0	-	-	0.0	-	179	206	-	25358	93%	3%	4%
OLA012	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	3896	0	-90	-89	2.4	7	179	204	204	25358	93%	3%	4%
OLA013	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	3837	0	-	-	0.0	-	179	204	-	25358	93%	3%	4%
OLA014	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	82	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	28	3833	0	82	90	2.0	4	179	203	203	25358	93%	3%	4%
OLA015	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	83	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	3756	0	83	90	2.0	6	179	202	202	25358	93%	3%	4%
OLA016	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	83	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	74	3717	0	-	-	0.0	-	179	200	-	25358	93%	3%	4%
OLA017	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	29	3462	0	-90	-88	1.9	7	179	196	196	25358	93%	3%	4%
OLA018	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	3427	0	-90	-88	1.9	2	179	196	196	25358	93%	3%	4%
OLA019	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	54	3384	0	-	-	0.0	-	179	197	-	25358	93%	3%	4%
OLA020	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	33	3293	0	-90	-87	2.0	8	179	197	197	25358	93%	3%	4%
OLA021	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	3244	0	-	-	0.0	-	179	200	-	25358	93%	3%	4%
OLA022	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	3101	0	-90	-85	9.0	3	179	200	200	25358	93%	3%	4%
OLA023	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	80	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	83	3090	0	-	-	0.0	-	179	199	-	25358	93%	3%	4%
OLA024	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	83	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	2903	0	-	-	0.0	-	179	193	-	25358	93%	3%	4%
OLA025	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	2827	0	-90	-86	1.8	5	179	191	192	25358	93%	3%	4%
OLA026	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	77	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	2457	0	77	90	6.0	3	179	183	183	25358	93%	3%	4%
OLA027	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	2395	0	-90	-90	2.5	26	179	185	184	25358	93%	3%	4%
OLA028	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	80	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	2377	0	-	-	0.0	-	179	182	-	25358	93%	3%	4%
OLA029	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-80	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	2335	0	-	-	0.0	-	179	185	-	25358	93%	3%	4%
OLA030	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	-75	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	2293	0	-	-	0.0	-	179	184	-	25358	93%	3%	4%
OLA031	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	52	2303	0	-	-	0.0	-	179	182	-	25358	93%	3%	4%
OLA032	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	72	2227	0	-	-	0.0	-	179	181	-	25358	93%	3%	4%
OLA033	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-68	-55	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	2209	0	-	-	0.0	-	179	182	-	25358	93%	3%	4%
OLA034	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	2210	0	-	-	0.0	-	179	182	-	25358	93%	3%	4%
OLA035	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	46	2131	0	-	-	0.0	-	179	182	-	25358	93%	3%	4%
OLA036	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-56	-43	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	2152	0	-	-	0.0	-	179	182	-	25358	93%	3%	4%
OLA037	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	2086	0	-	-	0.0	-	179	182	-	25358	93%	3%	4%
OLA038	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-45	-32	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	2100	0	-	-	0.0	-	179	182	-	25358	93%	3%	4%
OLA039	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	2044	0	-	-	0.0	-	179	181	-	25358	93%	3%	4%
OLA040	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-36	-23	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	2063	0	-	-	0.0	-	179	183	-	25358	93%	3%	4%
OLA041	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	2001	0	-	-	0.0	-	179	181	-	25358	93%	3%	4%
OLA042	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	1988	0	-	-	0.0	-	179	182	-	25358	93%	3%	4%
OLA043	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-29	-16	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	2036	0	-29	-16	1.8	12	179	183	182	25358	93%	3%	4%
OLA044	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	39	1961	0	-	-	0.0	-	179	182	-	25358	93%	3%	4%
OLA045	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	1936	0	-	-	0.0	-	179	183	-	25358	93%	3%	4%
OLA046	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-34	-23	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	1989	0	-	-	0.0	-	179	185	-	25358	93%	3%	4%
OLA047	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	1887	0	-	-	0.0	-	179	183	-	25358	93%	3%	4%
OLA048	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-53	-41	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	1888	0	-53	-41	2.0	10	179	184	184	25358	93%	3%	4%
OLA049	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-58	-47	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	1865	0	-58	-47	2.0	25	179	184	185	25358	93%	3%	4%
OLA050	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	1833	0	-	-	0.0	-	179	185	-	25358	93%	3%	4%
OLA051	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-64	-53	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	1808	0	-64	-53	2.0	11	179	184	185	25358	93%	3%	4%
OLA052	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	1779	0	-	-	0.0	-	179	185	-	25358	93%	3%	4%
OLA053	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-71	-60	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	1762	0	-71	-60	2.0	19	179	184	185	25358	93%	3%	4%
OLA054	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-82	-70	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	1709	0	-82	-70	2.0	12	179	184	186	25358	93%	3%	4%
OLA055	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	1714	0	-	-	0.0	-	179	185	-	25358	93%	3%	4%
OLA056	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-83	-72	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	1656	0	-83	-72	2.0	13	179	185	186	25358	93%	3%	4%
OLA057	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	1659	0	-	-	0.0	-	179	185	-	25358	93%	3%	4%

OLA058	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-83	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	1601	0	-83	-71	2.0	10	179	185	186	25358	93%	3%	4%
OLA059	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	1593	0	-	-	0.0	-	179	185	-	25358	93%	3%	4%
OLA060	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-82	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	1547	0	-82	-71	1.8	15	179	186	186	25358	93%	3%	4%
OLA061	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	1517	0	-	-	0.0	-	179	184	-	25358	93%	3%	4%
OLA062	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-82	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	21	1490	0	-82	-71	1.8	7	179	186	185	25358	93%	3%	4%
OLA063	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	24	1454	0	-	-	0.0	-	179	185	-	25358	93%	3%	4%
OLA064	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	1444	0	-81	-69	1.8	6	179	186	185	25358	93%	3%	4%
OLA065	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	30	1376	0	-	-	0.0	-	179	183	-	25358	93%	3%	4%
OLA066	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	1321	0	-	-	0.0	-	179	183	-	25358	93%	3%	4%
OLA067	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-79	-67	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	1268	0	-79	-67	1.8	14	179	181	182	25358	93%	3%	4%
OLA068	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	1236	0	-	-	0.0	-	179	180	-	25358	93%	3%	4%
OLA069	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-78	-66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	1195	0	-78	-66	1.8	31	179	181	180	25358	93%	3%	4%
OLA070	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-78	-66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	1146	0	-78	-66	1.8	17	179	179	178	25358	93%	3%	4%
OLA071	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	1144	0	-	-	0.0	-	179	178	-	25358	93%	3%	4%
OLA072	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	39	1076	0	-	-	0.0	-	179	177	-	25358	93%	3%	4%
OLA073	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-78	-65	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	1061	0	-78	-65	1.9	10	179	177	177	25358	93%	3%	4%
OLA074	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	994	0	-	-	0.0	-	179	176	-	25358	93%	3%	4%
OLA075	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-63	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	973	0	-	-	0.0	-	179	175	-	25358	93%	3%	4%
OLA076	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	72	907	0	-	-	0.0	-	179	175	-	25358	93%	3%	4%
OLA077	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	75	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	32	693	0	75	90	6.0	3	179	174	174	25358	93%	3%	4%
OLA078	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	64	667	0	-90	-75	6.0	3	179	172	172	25358	93%	3%	4%
OLA079	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	614	0	-	-	0.0	-	179	175	-	25358	93%	3%	4%
OLA080	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-83	-65	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	23	601	0	-83	-76	1.7	30	179	174	174	25358	93%	3%	4%
OLA081	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	65	568	0	-	-	0.0	-	179	175	-	25358	93%	3%	4%
OLA082	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-63	-55	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	261	0	-63	-55	1.8	15	179	181	181	25358	93%	3%	4%
OLA083	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-65	-58	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	215	0	-65	-58	2.0	13	179	182	182	25358	93%	3%	4%
OLA084	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-63	-62	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	167	0	-63	-62	1.6	18	179	183	182	25358	93%	3%	4%
OLA085	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-80	-59	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	60	0	-80	-59	2.6	8	179	182	181	25358	93%	3%	4%
OLA086	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	71	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	69	459	0	71	90	2.0	19	189	193	194	25358	93%	3%	4%
OLA087	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	74	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	54	491	0	74	90	2.0	55	189	194	194	25358	93%	3%	4%
OLA088	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	73	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	77	521	0	73	90	6.0	21	189	194	194	25358	93%	3%	4%
OLA089	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	80	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	735	0	-	-	0.0	-	189	205	-	25358	93%	3%	4%
OLA090	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	77	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	74	767	0	-	-	0.0	-	189	205	-	25358	93%	3%	4%
OLA091	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	84	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	1134	0	-	-	0.0	-	189	203	-	25358	93%	3%	4%
OLA092	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	85	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	1278	0	-	-	0.0	-	189	203	-	25358	93%	3%	4%
OLA093	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	85	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	1376	0	85	90	1.7	17	189	202	201	25358	93%	3%	4%
OLA094	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	72	86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	1547	0	-	-	0.0	-	189	202	-	25358	93%	3%	4%
OLA095	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	65	78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	66	1617	0	-	-	0.0	-	189	202	-	25358	93%	3%	4%
OLA096	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	98	1601	0	-	-	0.0	-	189	202	-	25358	93%	3%	4%
OLA097	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	58	71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	1664	0	58	71	1.8	5	189	202	201	25358	93%	3%	4%
OLA098	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	57	69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	1709	0	57	69	1.8	4	189	202	202	25358	93%	3%	4%
OLA099	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	59	70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	1830	0	-	-	0.0	-	189	201	-	25358	93%	3%	4%
OLA100	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	2248	0	-	-	0.0	-	189	202	-	25358	93%	3%	4%
OLA101	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	2317	0	-	-	0.0	-	189	201	-	25358	93%	3%	4%
OLA102	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	76	2513	0	-	-	0.0	-	189	198	-	25358	93%	3%	4%
OLA103	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	70	2683	0	-	-	0.0	-	189	197	-	25358	93%	3%	4%
OLA104	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-72	-67	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	99	2880	0	-	-	0.0	-	189	196	-	25358	93%	3%	4%

Start of Construction - 2023 S04_NB Kennedy Road Highway 407 14th Avenue

POR	Posted Speed Limit (km/hr)	Road Grade (%)		Road Grade Mode		Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)		Topography		Wood Depth	No of Row of Houses	Density of 1st Row		Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	165	5230	0	-90	-88	2.0	7	189	209	209	21861	93%	4%	3%
OLA002	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	48	5163	0	-	-	0.0	-	189	207	-	21861	93%	4%	3%
OLA003	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	5143	0	89	89	2.0	4	189	207	206	21861	93%	4%	3%
OLA004	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	88	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	64	5049	0	-	-	0.0	-	189	207	-	21861	93%	4%	3%
OLA005	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	37	5007	0	89	90	2.2	5	189	208	207	21861	93%	4%	3%
OLA006	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	4972	0	-90	-90	2.1	6	189	207	207	21861	93%	4%	3%
OLA007	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	88	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	4975	0	88	89	2.1	5	189	208	207	21861	93%	4%	3%
OLA008	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	4901	0	-	-	0.0	-	189	207	-	21861	93%	4%	3%
OLA009	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	31	4899	0	89	90	2.1	5	189	207	207	21861	93%	4%	3%
OLA010	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	4800	0	-90	-90	1.9	8	189	206	206	21861	93%	4%	3%
OLA011	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	88	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	71	4805	0	-	-	0.0	-	189	206	-	21861	93%	4%	3%
OLA012	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	39	4711	0	-90	-89	2.4	7	189	204	204	21861	93%	4%	3%
OLA013	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	47	4653	0	-	-	0.0	-	189	204	-	21861	93%	4%	3%
OLA014	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	28	4639	0	89	90	2.0	4	189	203	203	21861	93%	4%	3%
OLA015	60	2.3%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	33	4560	0	-	-	0.0	-	189	202	-	21861	93%	4%	3%
OLA016	60	2.3%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	74	4515	0	-	-	0.0	-	189	200	-	21861	93%	4%	3%
OLA017	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	-88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	4273	0	-89	-88	1.9	7	189	196	196	21861	93%	4%	3%
OLA018	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	-88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	4238	0	-89	-88	1.9	2	189	196	196	21861	93%	4%	3%
OLA019	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	-88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	54	4199	0	-	-	0.0	-	189	197	-	21861	93%	4%	3%
OLA020	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	-87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	4104	0	-89	-87	2.0	8	189	197	197	21861	93%	4%	3%
OLA021	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-88	-87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	62	4059	0	-	-	0.0	-	189	200	-	21861	93%	4%	3%
OLA022	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	-85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	3912	0	-86	-85	9.0	3	189	200	200	21861	93%	4%	3%
OLA023	60	4.3%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	83	3880	0	-	-	0.0	-	189	199	-	21861	93%	4%	3%
OLA024	60	4.3%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	3697	0	-	-	0.0	-	189	193	-	21861	93%	4%	3%
OLA025	60	4.3%	2	Manual	1	Typical Asphalt or Concrete	-87	-86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	3633	0	-87	-86	1.8	5	189	191	192	21861	93%	4%	3%
OLA026	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	62	3238	0	89	90	6.0	3	189	183	183	21861	93%	4%	3%
OLA027	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	3197	0	-90	-90	2.5	26	189	185	184	21861	93%	4%	3%
OLA028	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	3160	0	-	-	0.0	-	189	182	-	21861	93%	4%	3%
OLA029	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-82	-80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	47	3138	0	-	-	0.0	-	189	185	-	21861	93%	4%	3%
OLA030	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	3096	0	-	-	0.0	-	189	184	-	21861	93%	4%	3%
OLA031	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	52	3084	0	-	-	0.0	-	189	182	-	21861	93%	4%	3%
OLA032	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	72	3007	0	-	-	0.0	-	189	181	-	21861	93%	4%	3%
OLA033	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-57	-55	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	3015	0	-	-	0.0	-	189	182	-	21861	93%	4%	3%
OLA034	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	2998	0	-	-	0.0	-	189	182	-	21861	93%	4%	3%
OLA035	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	2928	0	-	-	0.0	-	189	182	-	21861	93%	4%	3%
OLA036	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-45	-43	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	2965	0	-	-	0.0	-	189	182	-	21861	93%	4%	3%
OLA037	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	39	2892	0	-	-	0.0	-	189	182	-	21861	93%	4%	3%
OLA038	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-35	-32	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	2923	0	-	-	0.0	-	189	182	-	21861	93%	4%	3%
OLA039	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	2859	0	-	-	0.0	-	189	181	-	21861	93%	4%	3%
OLA040	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-26	-23	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	2896	0	-	-	0.0	-	189	183	-	21861	93%	4%	3%
OLA041	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	2829	0	-	-	0.0	-	189	181	-	21861	93%	4%	3%
OLA042	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	2823	0	-	-	0.0	-	189	182	-	21861	93%	4%	3%
OLA043	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-19	-16	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	2881	0	-19	-16	1.8	12	189	183	182	21861	93%	4%	3%
OLA044	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	39	2807	0	-	-	0.0	-	189	182	-	21861	93%	4%	3%
OLA045	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	39	2791	0	-	-	0.0	-	189	183	-	21861	93%	4%	3%
OLA046	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-26	-23	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	2853	0	-	-	0.0	-	189	185	-	21861	93%	4%	3%
OLA047	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	2754	0	-	-	0.0	-	189	183	-	21861	93%	4%	3%
OLA048	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-45	-41	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	35	2776	0	-45	-41	2.0	10	189	184	184	21861	93%	4%	3%
OLA049	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-51	-47	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	2757	0	-51	-47	2.0	25	189	184	185	21861	93%	4%	3%
OLA050	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	33	2713	0	-	-	0.0	-	189	185	-	21861	93%	4%	3%
OLA051	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-57	-53	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	2705	0	-57	-53	2.0	11	189	184	185	21861	93%	4%	3%
OLA052	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	2665	0	-	-	0.0	-	189	185	-	21861	93%	4%	3%
OLA053	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-64	-60	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	35	2665	0	-64	-60	2.0	19	189	184	185	21861	93%	4%	3%
OLA054	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	2614	0	-75	-70	2.0	12	189	184	186	21861	93%	4%	3%
OLA055	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	2604	0	-	-	0.0	-	189	185	-	21861	93%	4%	3%
OLA056	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-76	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	2563	0	-76	-72	2.0	13	189	185	186	21861	93%	4%	3%
OLA057	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	2551	0	-	-	0.0	-	189	185	-	21861	93%	4%	3%

OLA058	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-76	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	2510	0	-76	-71	2.0	10	189	185	186	21861	93%	4%	3%
OLA059	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	2490	0	-	-	0.0	-	189	185	-	21861	93%	4%	3%
OLA060	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-76	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	2460	0	-76	-71	1.8	15	189	186	186	21861	93%	4%	3%
OLA061	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	2416	0	-	-	0.0	-	189	184	-	21861	93%	4%	3%
OLA062	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-76	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	21	2404	0	-76	-71	1.8	7	189	186	185	21861	93%	4%	3%
OLA063	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	24	2360	0	-	-	0.0	-	189	185	-	21861	93%	4%	3%
OLA064	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	2365	0	-75	-69	1.8	6	189	186	185	21861	93%	4%	3%
OLA065	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	30	2285	0	-	-	0.0	-	189	183	-	21861	93%	4%	3%
OLA066	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	2230	0	-	-	0.0	-	189	183	-	21861	93%	4%	3%
OLA067	60	2.5%	2	Manual	1	Typical Asphalt or Concrete	-73	-67	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	2201	0	-73	-67	1.8	14	189	181	182	21861	93%	4%	3%
OLA068	60	2.5%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	2151	0	-	-	0.0	-	189	180	-	21861	93%	4%	3%
OLA069	60	2.5%	2	Manual	1	Typical Asphalt or Concrete	-72	-66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	2132	0	-72	-66	1.8	31	189	181	180	21861	93%	4%	3%
OLA070	60	2.5%	2	Manual	1	Typical Asphalt or Concrete	-73	-66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	2083	0	-73	-66	1.8	17	189	179	178	21861	93%	4%	3%
OLA071	60	2.5%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	2064	0	-	-	0.0	-	189	178	-	21861	93%	4%	3%
OLA072	60	2.5%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	39	2000	0	-	-	0.0	-	189	177	-	21861	93%	4%	3%
OLA073	60	2.5%	2	Manual	1	Typical Asphalt or Concrete	-72	-65	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	2003	0	-72	-65	1.9	10	189	177	177	21861	93%	4%	3%
OLA074	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	1921	0	-	-	0.0	-	189	176	-	21861	93%	4%	3%
OLA075	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-71	-63	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	1926	0	-	-	0.0	-	189	175	-	21861	93%	4%	3%
OLA076	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-78	-69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	72	1864	0	-	-	0.0	-	189	175	-	21861	93%	4%	3%
OLA077	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	87	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	32	1618	0	87	90	6.0	3	189	174	174	21861	93%	4%	3%
OLA078	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-84	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	64	1622	0	-84	-75	6.0	3	189	172	172	21861	93%	4%	3%
OLA079	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	1537	0	-	-	0.0	-	189	175	-	21861	93%	4%	3%
OLA080	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-74	-65	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	23	1548	0	-	-	0.0	-	189	174	-	21861	93%	4%	3%
OLA081	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	65	1486	0	-	-	0.0	-	189	175	-	21861	93%	4%	3%
OLA082	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-69	-55	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	1253	0	-69	-55	1.8	15	189	181	181	21861	93%	4%	3%
OLA083	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-72	-58	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	1208	0	-72	-58	2.0	13	189	182	182	21861	93%	4%	3%
OLA084	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-78	-62	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	1162	0	-78	-62	1.6	18	189	183	182	21861	93%	4%	3%
OLA085	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	1051	0	-90	-80	2.6	8	189	182	181	21861	93%	4%	3%
OLA086	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-79	71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	69	69	0	13	71	2.0	19	190	193	194	21861	93%	4%	3%
OLA087	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	54	54	0	52	74	2.0	55	192	194	194	21861	93%	4%	3%
OLA088	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-76	73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	77	77	0	40	73	6.0	21	193	194	194	21861	93%	4%	3%
OLA089	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-56	80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	38	0	-55	40	3.0	3	204	205	205	21861	93%	4%	3%
OLA090	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-23	77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	74	74	0	-	-	0.0	-	204	205	-	21861	93%	4%	3%
OLA091	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	84	84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	348	0	-	-	0.0	-	204	203	-	21861	93%	4%	3%
OLA092	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	85	87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	493	0	-	-	0.0	-	204	203	-	21861	93%	4%	3%
OLA093	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	85	86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	591	0	85	86	1.7	17	204	202	201	21861	93%	4%	3%
OLA094	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	72	74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	762	0	-	-	0.0	-	204	202	-	21861	93%	4%	3%
OLA095	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	65	67	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	66	833	0	-	-	0.0	-	204	202	-	21861	93%	4%	3%
OLA096	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	98	833	0	-	-	0.0	-	204	202	-	21861	93%	4%	3%
OLA097	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	58	62	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	884	0	58	62	1.8	5	204	202	201	21861	93%	4%	3%
OLA098	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	57	61	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	928	0	57	61	1.8	4	204	202	202	21861	93%	4%	3%
OLA099	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	59	65	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	1056	0	-	-	0.0	-	204	201	-	21861	93%	4%	3%
OLA100	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	1507	0	-	-	0.0	-	204	202	-	21861	93%	4%	3%
OLA101	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	1579	0	-	-	0.0	-	204	201	-	21861	93%	4%	3%
OLA102	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	76	1787	0	-	-	0.0	-	204	198	-	21861	93%	4%	3%
OLA103	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	70	1954	0	-	-	0.0	-	204	197	-	21861	93%	4%	3%
OLA104	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-72	-66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	99	2147	0	-	-	0.0	-	204	196	-	21861	93%	4%	3%

Start of Construction - 2023 S05_NBa Kennedy Road 14th Avenue Denison Street

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	165	6008	0	-90	-90	2.0	7	204	209	209	19935	93%	4%	3%
OLA002	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	5942	0	-	-	0.0	-	204	207	-	19935	93%	4%	3%
OLA003	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	5924	0	-	-	0.0	-	204	207	-	19935	93%	4%	3%
OLA004	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	88	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	64	5830	0	-	-	0.0	-	204	207	-	19935	93%	4%	3%
OLA005	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	37	5788	0	-	-	0.0	-	204	208	-	19935	93%	4%	3%
OLA006	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	5752	0	-	-	0.0	-	204	207	-	19935	93%	4%	3%
OLA007	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	88	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	5756	0	88	88	2.1	5	204	208	207	19935	93%	4%	3%
OLA008	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	5681	0	-	-	0.0	-	204	207	-	19935	93%	4%	3%
OLA009	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	31	5680	0	-	-	0.0	-	204	207	-	19935	93%	4%	3%
OLA010	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	5580	0	-	-	0.0	-	204	206	-	19935	93%	4%	3%
OLA011	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	88	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	71	5587	0	-	-	0.0	-	204	206	-	19935	93%	4%	3%
OLA012	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	5491	0	-	-	0.0	-	204	204	-	19935	93%	4%	3%
OLA013	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	5432	0	-	-	0.0	-	204	204	-	19935	93%	4%	3%
OLA014	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	28	5420	0	-	-	0.0	-	204	203	-	19935	93%	4%	3%
OLA015	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	5341	0	-	-	0.0	-	204	202	-	19935	93%	4%	3%
OLA016	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	74	5297	0	-	-	0.0	-	204	200	-	19935	93%	4%	3%
OLA017	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	29	5053	0	-	-	0.0	-	204	196	-	19935	93%	4%	3%
OLA018	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	5018	0	-89	-89	1.9	2	204	196	196	19935	93%	4%	3%
OLA019	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	54	4978	0	-	-	0.0	-	204	197	-	19935	93%	4%	3%
OLA020	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	33	4883	0	-	-	0.0	-	204	197	-	19935	93%	4%	3%
OLA021	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	-88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	4838	0	-	-	0.0	-	204	200	-	19935	93%	4%	3%
OLA022	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	4691	0	-	-	0.0	-	204	200	-	19935	93%	4%	3%
OLA023	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	83	4662	0	-	-	0.0	-	204	199	-	19935	93%	4%	3%
OLA024	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	4479	0	-	-	0.0	-	204	193	-	19935	93%	4%	3%
OLA025	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	-87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	4413	0	-	-	0.0	-	204	191	-	19935	93%	4%	3%
OLA026	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	4019	0	89	89	6.0	3	204	183	183	19935	93%	4%	3%
OLA027	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	3976	0	-	-	0.0	-	204	185	-	19935	93%	4%	3%
OLA028	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	3941	0	-	-	0.0	-	204	182	-	19935	93%	4%	3%
OLA029	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-82	-82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	3917	0	-	-	0.0	-	204	185	-	19935	93%	4%	3%
OLA030	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-77	-77	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	3875	0	-	-	0.0	-	204	184	-	19935	93%	4%	3%
OLA031	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	52	3865	0	-	-	0.0	-	204	182	-	19935	93%	4%	3%
OLA032	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	72	3788	0	-	-	0.0	-	204	181	-	19935	93%	4%	3%
OLA033	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-57	-57	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	3793	0	-	-	0.0	-	204	182	-	19935	93%	4%	3%
OLA034	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	3779	0	-	-	0.0	-	204	182	-	19935	93%	4%	3%
OLA035	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	46	3707	0	-	-	0.0	-	204	182	-	19935	93%	4%	3%
OLA036	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-46	-45	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	3742	0	-	-	0.0	-	204	182	-	19935	93%	4%	3%
OLA037	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	3670	0	-	-	0.0	-	204	182	-	19935	93%	4%	3%
OLA038	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-35	-35	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	3698	0	-	-	0.0	-	204	182	-	19935	93%	4%	3%
OLA039	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	3635	0	-	-	0.0	-	204	181	-	19935	93%	4%	3%
OLA040	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-26	-26	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	3669	0	-	-	0.0	-	204	183	-	19935	93%	4%	3%
OLA041	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	3602	0	-	-	0.0	-	204	181	-	19935	93%	4%	3%
OLA042	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	3595	0	-	-	0.0	-	204	182	-	19935	93%	4%	3%
OLA043	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-19	-19	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	3651	0	-19	-19	1.8	12	204	183	182	19935	93%	4%	3%
OLA044	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	39	3577	0	-	-	0.0	-	204	182	-	19935	93%	4%	3%
OLA045	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	3559	0	-	-	0.0	-	204	183	-	19935	93%	4%	3%
OLA046	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-26	-26	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	3619	0	-	-	0.0	-	204	185	-	19935	93%	4%	3%
OLA047	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	3519	0	-	-	0.0	-	204	183	-	19935	93%	4%	3%
OLA048	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-46	-45	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	3535	0	-46	-45	2.0	10	204	184	184	19935	93%	4%	3%
OLA049	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-52	-51	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	3514	0	-52	-51	2.0	25	204	184	185	19935	93%	4%	3%
OLA050	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	3474	0	-	-	0.0	-	204	185	-	19935	93%	4%	3%
OLA051	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-59	-57	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	3460	0	-59	-57	2.0	11	204	184	185	19935	93%	4%	3%
OLA052	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	3424	0	-	-	0.0	-	204	185	-	19935	93%	4%	3%
OLA053	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-66	-64	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	3417	0	-66	-64	2.0	19	204	184	185	19935	93%	4%	3%
OLA054	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-76	-75	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	3366	0	-76	-75	2.0	12	204	184	186	19935	93%	4%	3%
OLA055	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	3361	0	-	-	0.0	-	204	185	-	19935	93%	4%	3%
OLA056	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-78	-76	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	3314	0	-78	-76	2.0	13	204	185	186	19935	93%	4%	3%
OLA057	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	3307	0	-	-	0.0	-	204	185	-	19935	93%	4%	3%

OLA058	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-78	-76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	3260	0	-78	-76	2.0	10	204	185	186	19935	93%	4%	3%
OLA059	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	3244	0	-	-	0.0	-	204	185	-	19935	93%	4%	3%
OLA060	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	3208	0	-77	-76	1.8	15	204	186	186	19935	93%	4%	3%
OLA061	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	3169	0	-	-	0.0	-	204	184	-	19935	93%	4%	3%
OLA062	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	21	3151	0	-77	-76	1.8	7	204	186	185	19935	93%	4%	3%
OLA063	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	24	3110	0	-	-	0.0	-	204	185	-	19935	93%	4%	3%
OLA064	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-76	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	3108	0	-76	-75	1.8	6	204	186	185	19935	93%	4%	3%
OLA065	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	30	3033	0	-	-	0.0	-	204	183	-	19935	93%	4%	3%
OLA066	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	2978	0	-	-	0.0	-	204	183	-	19935	93%	4%	3%
OLA067	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	2938	0	-75	-73	1.8	14	204	181	182	19935	93%	4%	3%
OLA068	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	2896	0	-	-	0.0	-	204	180	-	19935	93%	4%	3%
OLA069	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	2866	0	-75	-72	1.8	31	204	181	180	19935	93%	4%	3%
OLA070	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	2817	0	-75	-73	1.8	17	204	179	178	19935	93%	4%	3%
OLA071	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	2806	0	-	-	0.0	-	204	178	-	19935	93%	4%	3%
OLA072	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	39	2740	0	-	-	0.0	-	204	177	-	19935	93%	4%	3%
OLA073	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	2734	0	-75	-72	1.9	10	204	177	177	19935	93%	4%	3%
OLA074	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	2659	0	-	-	0.0	-	204	176	-	19935	93%	4%	3%
OLA075	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-74	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	2650	0	-	-	0.0	-	204	175	-	19935	93%	4%	3%
OLA076	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-80	-78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	72	2585	0	-	-	0.0	-	204	175	-	19935	93%	4%	3%
OLA077	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	84	87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	32	2353	0	84	87	6.0	3	204	174	174	19935	93%	4%	3%
OLA078	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	64	2343	0	-87	-84	6.0	3	204	172	172	19935	93%	4%	3%
OLA079	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	2272	0	-	-	0.0	-	204	175	-	19935	93%	4%	3%
OLA080	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	23	2272	0	-77	-76	1.7	30	204	174	174	19935	93%	4%	3%
OLA081	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	65	2222	0	-	-	0.0	-	204	175	-	19935	93%	4%	3%
OLA082	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	1941	0	-73	-69	1.8	15	204	181	181	19935	93%	4%	3%
OLA083	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	1894	0	-77	-72	2.0	13	204	182	182	19935	93%	4%	3%
OLA084	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-82	-78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	1842	0	-82	-78	1.6	18	204	183	182	19935	93%	4%	3%
OLA085	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	1729	0	-	-	0.0	-	204	182	-	19935	93%	4%	3%
OLA086	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	-79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	69	353	0	-	-	0.0	-	204	193	-	19935	93%	4%	3%
OLA087	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	54	313	0	-	-	0.0	-	204	194	-	19935	93%	4%	3%
OLA088	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	-76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	77	293	0	-	-	0.0	-	204	194	-	19935	93%	4%	3%
OLA089	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-88	-56	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	68	0	-	-	0.0	-	204	205	-	19935	93%	4%	3%
OLA090	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-85	-23	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	74	81	0	-	-	0.0	-	204	205	-	19935	93%	4%	3%
OLA091	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-83	84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	42	0	-45	45	3.0	3	203	203	203	19935	93%	4%	3%
OLA092	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-80	87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	31	0	-80	-30	3.0	3	202	203	203	19935	93%	4%	3%
OLA093	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-69	86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	34	0	-33	86	1.7	17	201	202	201	19935	93%	4%	3%
OLA094	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	56	74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	88	0	-	-	0.0	-	201	202	-	19935	93%	4%	3%
OLA095	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	58	67	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	66	156	0	-	-	0.0	-	201	202	-	19935	93%	4%	3%
OLA096	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	98	205	0	-	-	0.0	-	201	202	-	19935	93%	4%	3%
OLA097	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	62	72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	208	0	62	72	1.8	5	201	202	201	19935	93%	4%	3%
OLA098	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	61	68	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	252	0	61	68	1.8	4	201	202	202	19935	93%	4%	3%
OLA099	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	65	77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	391	0	-	-	0.0	-	201	201	-	19935	93%	4%	3%
OLA100	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	885	0	-	-	0.0	-	201	202	-	19935	93%	4%	3%
OLA101	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	958	0	-	-	0.0	-	201	201	-	19935	93%	4%	3%
OLA102	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	76	1177	0	-	-	0.0	-	201	198	-	19935	93%	4%	3%
OLA103	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-63	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	70	1335	0	-	-	0.0	-	201	197	-	19935	93%	4%	3%
OLA104	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-66	-58	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	99	1519	0	-	-	0.0	-	201	196	-	19935	93%	4%	3%

Start of Construction - 2023 S05_NBb Kennedy Road 14th Avenue Denison Street

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	165	6687	0	-90	-89	2.0	7	201	209	209	19935	93%	4%	3%
OLA002	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	6621	0	-	-	0.0	-	201	207	-	19935	93%	4%	3%
OLA003	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	6603	0	89	89	2.0	4	201	207	206	19935	93%	4%	3%
OLA004	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	88	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	64	6509	0	-	-	0.0	-	201	207	-	19935	93%	4%	3%
OLA005	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	37	6467	0	89	90	2.2	5	201	208	207	19935	93%	4%	3%
OLA006	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	6431	0	-	-	0.0	-	201	207	-	19935	93%	4%	3%
OLA007	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	88	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	6435	0	88	89	2.1	5	201	208	207	19935	93%	4%	3%
OLA008	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	6360	0	-	-	0.0	-	201	207	-	19935	93%	4%	3%
OLA009	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	31	6359	0	89	90	2.1	5	201	207	207	19935	93%	4%	3%
OLA010	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	6259	0	-	-	0.0	-	201	206	-	19935	93%	4%	3%
OLA011	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	88	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	71	6266	0	-	-	0.0	-	201	206	-	19935	93%	4%	3%
OLA012	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	6170	0	-	-	0.0	-	201	204	-	19935	93%	4%	3%
OLA013	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	6111	0	-	-	0.0	-	201	204	-	19935	93%	4%	3%
OLA014	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	28	6099	0	89	90	2.0	4	201	203	203	19935	93%	4%	3%
OLA015	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	6020	0	-	-	0.0	-	201	202	-	19935	93%	4%	3%
OLA016	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	74	5976	0	-	-	0.0	-	201	200	-	19935	93%	4%	3%
OLA017	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	29	5732	0	-89	-89	1.9	7	201	196	196	19935	93%	4%	3%
OLA018	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	5697	0	-89	-89	1.9	2	201	196	196	19935	93%	4%	3%
OLA019	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	54	5657	0	-	-	0.0	-	201	197	-	19935	93%	4%	3%
OLA020	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	33	5563	0	-89	-88	2.0	8	201	197	197	19935	93%	4%	3%
OLA021	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	-88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	5517	0	-	-	0.0	-	201	200	-	19935	93%	4%	3%
OLA022	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	5371	0	-86	-86	9.0	3	201	200	200	19935	93%	4%	3%
OLA023	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	83	5341	0	-	-	0.0	-	201	199	-	19935	93%	4%	3%
OLA024	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	5158	0	-	-	0.0	-	201	193	-	19935	93%	4%	3%
OLA025	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	-87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	5092	0	-87	-87	1.8	5	201	191	192	19935	93%	4%	3%
OLA026	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	4698	0	89	89	6.0	3	201	183	183	19935	93%	4%	3%
OLA027	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	4655	0	-	-	0.0	-	201	185	-	19935	93%	4%	3%
OLA028	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	4621	0	-	-	0.0	-	201	182	-	19935	93%	4%	3%
OLA029	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-82	-81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	4596	0	-	-	0.0	-	201	185	-	19935	93%	4%	3%
OLA030	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-77	-76	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	4554	0	-	-	0.0	-	201	184	-	19935	93%	4%	3%
OLA031	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	52	4544	0	-	-	0.0	-	201	182	-	19935	93%	4%	3%
OLA032	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	72	4468	0	-	-	0.0	-	201	181	-	19935	93%	4%	3%
OLA033	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-57	-57	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	4472	0	-	-	0.0	-	201	182	-	19935	93%	4%	3%
OLA034	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	4458	0	-	-	0.0	-	201	182	-	19935	93%	4%	3%
OLA035	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	46	4386	0	-	-	0.0	-	201	182	-	19935	93%	4%	3%
OLA036	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-46	-45	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	4421	0	-	-	0.0	-	201	182	-	19935	93%	4%	3%
OLA037	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	4349	0	-	-	0.0	-	201	182	-	19935	93%	4%	3%
OLA038	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-35	-35	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	4377	0	-	-	0.0	-	201	182	-	19935	93%	4%	3%
OLA039	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	4314	0	-	-	0.0	-	201	181	-	19935	93%	4%	3%
OLA040	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-26	-26	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	4348	0	-	-	0.0	-	201	183	-	19935	93%	4%	3%
OLA041	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	4281	0	-	-	0.0	-	201	181	-	19935	93%	4%	3%
OLA042	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	4274	0	-	-	0.0	-	201	182	-	19935	93%	4%	3%
OLA043	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-19	-19	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	4329	0	-19	-19	1.8	12	201	183	182	19935	93%	4%	3%
OLA044	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	39	4255	0	-	-	0.0	-	201	182	-	19935	93%	4%	3%
OLA045	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	4237	0	-	-	0.0	-	201	183	-	19935	93%	4%	3%
OLA046	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-26	-26	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	4296	0	-	-	0.0	-	201	185	-	19935	93%	4%	3%
OLA047	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	4195	0	-	-	0.0	-	201	183	-	19935	93%	4%	3%
OLA048	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-46	-46	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	4209	0	-46	-46	2.0	10	201	184	184	19935	93%	4%	3%
OLA049	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-52	-52	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	4189	0	-52	-52	2.0	25	201	184	185	19935	93%	4%	3%
OLA050	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	4149	0	-	-	0.0	-	201	185	-	19935	93%	4%	3%
OLA051	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-59	-58	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	4134	0	-59	-58	2.0	11	201	184	185	19935	93%	4%	3%
OLA052	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	4099	0	-	-	0.0	-	201	185	-	19935	93%	4%	3%
OLA053	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-66	-65	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	4090	0	-66	-65	2.0	19	201	184	185	19935	93%	4%	3%
OLA054	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-76	-76	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	4038	0	-76	-76	2.0	12	201	184	186	19935	93%	4%	3%
OLA055	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	4035	0	-	-	0.0	-	201	185	-	19935	93%	4%	3%
OLA056	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-78	-78	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	3986	0	-78	-78	2.0	13	201	185	186	19935	93%	4%	3%
OLA057	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	3981	0	-	-	0.0	-	201	185	-	19935	93%	4%	3%

OLA058	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-78	-77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	3932	0	-78	-77	2.0	10	201	185	186	19935	93%	4%	3%
OLA059	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	3918	0	-	-	0.0	-	201	185	-	19935	93%	4%	3%
OLA060	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	3879	0	-77	-77	1.8	15	201	186	186	19935	93%	4%	3%
OLA061	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	3842	0	-	-	0.0	-	201	184	-	19935	93%	4%	3%
OLA062	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	21	3822	0	-77	-77	1.8	7	201	186	185	19935	93%	4%	3%
OLA063	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	24	3783	0	-	-	0.0	-	201	185	-	19935	93%	4%	3%
OLA064	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-76	-76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	3779	0	-76	-76	1.8	6	201	186	185	19935	93%	4%	3%
OLA065	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	30	3705	0	-	-	0.0	-	201	183	-	19935	93%	4%	3%
OLA066	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	3650	0	-	-	0.0	-	201	183	-	19935	93%	4%	3%
OLA067	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	3606	0	-75	-75	1.8	14	201	181	182	19935	93%	4%	3%
OLA068	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	3567	0	-	-	0.0	-	201	180	-	19935	93%	4%	3%
OLA069	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	3534	0	-75	-74	1.8	31	201	181	180	19935	93%	4%	3%
OLA070	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	3485	0	-75	-75	1.8	17	201	179	178	19935	93%	4%	3%
OLA071	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	3477	0	-	-	0.0	-	201	178	-	19935	93%	4%	3%
OLA072	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	39	3410	0	-	-	0.0	-	201	177	-	19935	93%	4%	3%
OLA073	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	3401	0	-75	-75	1.9	10	201	177	177	19935	93%	4%	3%
OLA074	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	3328	0	-	-	0.0	-	201	176	-	19935	93%	4%	3%
OLA075	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-74	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	3315	0	-	-	0.0	-	201	175	-	19935	93%	4%	3%
OLA076	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-80	-80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	72	3249	0	-	-	0.0	-	201	175	-	19935	93%	4%	3%
OLA077	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	84	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	32	3023	0	84	85	6.0	3	201	174	174	19935	93%	4%	3%
OLA078	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	64	3008	0	-87	-87	6.0	3	201	172	172	19935	93%	4%	3%
OLA079	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	2942	0	-	-	0.0	-	201	175	-	19935	93%	4%	3%
OLA080	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	23	2939	0	-77	-77	1.7	30	201	174	174	19935	93%	4%	3%
OLA081	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	65	2892	0	-	-	0.0	-	201	175	-	19935	93%	4%	3%
OLA082	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	2600	0	-73	-73	1.8	15	201	181	181	19935	93%	4%	3%
OLA083	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	2552	0	-77	-77	2.0	13	201	182	182	19935	93%	4%	3%
OLA084	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-82	-82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	2499	0	-82	-82	1.6	18	201	183	182	19935	93%	4%	3%
OLA085	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	2387	0	-	-	0.0	-	201	182	-	19935	93%	4%	3%
OLA086	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	-85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	69	1029	0	-	-	0.0	-	201	193	-	19935	93%	4%	3%
OLA087	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	54	989	0	-	-	0.0	-	201	194	-	19935	93%	4%	3%
OLA088	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	-84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	77	966	0	-	-	0.0	-	201	194	-	19935	93%	4%	3%
OLA089	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-88	-86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	737	0	-	-	0.0	-	201	205	-	19935	93%	4%	3%
OLA090	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-85	-83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	74	714	0	-	-	0.0	-	201	205	-	19935	93%	4%	3%
OLA091	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-83	-80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	336	0	-	-	0.0	-	201	203	-	19935	93%	4%	3%
OLA092	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-80	-78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	190	0	-80	-78	3.0	3	201	203	203	19935	93%	4%	3%
OLA093	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	96	0	-	-	0.0	-	201	202	-	19935	93%	4%	3%
OLA094	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-54	56	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	46	0	-54	46	2.0	12	200	202	201	19935	93%	4%	3%
OLA095	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-11	58	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	66	66	0	-11	15	6.0	3	200	202	202	19935	93%	4%	3%
OLA096	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-74	-31	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	98	112	0	-	-	0.0	-	200	202	-	19935	93%	4%	3%
OLA097	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	65	72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	64	0	65	72	1.8	5	200	202	201	19935	93%	4%	3%
OLA098	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	61	68	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	108	0	61	68	1.8	4	200	202	202	19935	93%	4%	3%
OLA099	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	77	80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	247	0	-	-	0.0	-	200	201	-	19935	93%	4%	3%
OLA100	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	747	0	-90	-87	2.2	7	200	202	202	19935	93%	4%	3%
OLA101	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	820	0	-90	-87	2.1	6	200	201	201	19935	93%	4%	3%
OLA102	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	76	1039	0	-	-	0.0	-	200	198	-	19935	93%	4%	3%
OLA103	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-63	-62	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	70	1196	0	-	-	0.0	-	200	197	-	19935	93%	4%	3%
OLA104	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-58	-56	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	99	1377	0	-	-	0.0	-	200	196	-	19935	93%	4%	3%

Start of Construction - 2023 S05_NBc Kennedy Road 14th Avenue Denison Street

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	165	6828	0	-89	-89	2.0	7	200	209	209	19935	93%	4%	3%
OLA002	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	6762	0	-	-	0.0	-	200	207	-	19935	93%	4%	3%
OLA003	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	6743	0	89	90	2.0	4	200	207	206	19935	93%	4%	3%
OLA004	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	64	6649	0	-	-	0.0	-	200	207	-	19935	93%	4%	3%
OLA005	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	37	6607	0	90	90	2.2	5	200	208	207	19935	93%	4%	3%
OLA006	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	6572	0	-90	-90	2.1	6	200	207	207	19935	93%	4%	3%
OLA007	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	6575	0	89	90	2.1	5	200	208	207	19935	93%	4%	3%
OLA008	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	6500	0	-90	-90	2.0	12	200	207	207	19935	93%	4%	3%
OLA009	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	31	6500	0	90	90	2.1	5	200	207	207	19935	93%	4%	3%
OLA010	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	6399	0	-90	-90	1.9	8	200	206	206	19935	93%	4%	3%
OLA011	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	71	6406	0	-	-	0.0	-	200	206	-	19935	93%	4%	3%
OLA012	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	6311	0	-90	-89	2.4	7	200	204	204	19935	93%	4%	3%
OLA013	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	6252	0	-	-	0.0	-	200	204	-	19935	93%	4%	3%
OLA014	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	28	6239	0	90	90	2.0	4	200	203	203	19935	93%	4%	3%
OLA015	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	6160	0	-	-	0.0	-	200	202	-	19935	93%	4%	3%
OLA016	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	74	6116	0	-	-	0.0	-	200	200	-	19935	93%	4%	3%
OLA017	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	29	5873	0	-89	-88	1.9	7	200	196	196	19935	93%	4%	3%
OLA018	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	5838	0	-89	-88	1.9	2	200	196	196	19935	93%	4%	3%
OLA019	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	54	5798	0	-	-	0.0	-	200	197	-	19935	93%	4%	3%
OLA020	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	-87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	33	5703	0	-88	-87	2.0	8	200	197	197	19935	93%	4%	3%
OLA021	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	-87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	5658	0	-	-	0.0	-	200	200	-	19935	93%	4%	3%
OLA022	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	-85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	5511	0	-86	-85	9.0	3	200	200	200	19935	93%	4%	3%
OLA023	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	83	5481	0	-	-	0.0	-	200	199	-	19935	93%	4%	3%
OLA024	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	5298	0	-	-	0.0	-	200	193	-	19935	93%	4%	3%
OLA025	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	5233	0	-87	-86	1.8	5	200	191	192	19935	93%	4%	3%
OLA026	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	4838	0	89	90	6.0	3	200	183	183	19935	93%	4%	3%
OLA027	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	4796	0	-90	-90	2.5	26	200	185	184	19935	93%	4%	3%
OLA028	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	4761	0	-	-	0.0	-	200	182	-	19935	93%	4%	3%
OLA029	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-81	-80	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	4737	0	-	-	0.0	-	200	185	-	19935	93%	4%	3%
OLA030	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-76	-75	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	4695	0	-	-	0.0	-	200	184	-	19935	93%	4%	3%
OLA031	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	52	4684	0	-	-	0.0	-	200	182	-	19935	93%	4%	3%
OLA032	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	72	4608	0	-	-	0.0	-	200	181	-	19935	93%	4%	3%
OLA033	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-57	-56	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	4613	0	-	-	0.0	-	200	182	-	19935	93%	4%	3%
OLA034	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	4598	0	-	-	0.0	-	200	182	-	19935	93%	4%	3%
OLA035	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	46	4527	0	-	-	0.0	-	200	182	-	19935	93%	4%	3%
OLA036	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-45	-44	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	4562	0	-	-	0.0	-	200	182	-	19935	93%	4%	3%
OLA037	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	4490	0	-	-	0.0	-	200	182	-	19935	93%	4%	3%
OLA038	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-35	-33	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	4519	0	-	-	0.0	-	200	182	-	19935	93%	4%	3%
OLA039	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	4455	0	-	-	0.0	-	200	181	-	19935	93%	4%	3%
OLA040	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-26	-24	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	4490	0	-	-	0.0	-	200	183	-	19935	93%	4%	3%
OLA041	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	4423	0	-	-	0.0	-	200	181	-	19935	93%	4%	3%
OLA042	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	4416	0	-	-	0.0	-	200	182	-	19935	93%	4%	3%
OLA043	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-19	-18	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	4472	0	-19	-18	1.8	12	200	183	182	19935	93%	4%	3%
OLA044	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	39	4397	0	-	-	0.0	-	200	182	-	19935	93%	4%	3%
OLA045	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	4379	0	-	-	0.0	-	200	183	-	19935	93%	4%	3%
OLA046	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-26	-25	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	4439	0	-	-	0.0	-	200	185	-	19935	93%	4%	3%
OLA047	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	4338	0	-	-	0.0	-	200	183	-	19935	93%	4%	3%
OLA048	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-46	-45	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	4353	0	-46	-45	2.0	10	200	184	184	19935	93%	4%	3%
OLA049	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-52	-50	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	4332	0	-52	-50	2.0	25	200	184	185	19935	93%	4%	3%
OLA050	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	4293	0	-	-	0.0	-	200	185	-	19935	93%	4%	3%
OLA051	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-58	-57	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	4278	0	-58	-57	2.0	11	200	184	185	19935	93%	4%	3%
OLA052	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	4242	0	-	-	0.0	-	200	185	-	19935	93%	4%	3%
OLA053	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-65	-64	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	4234	0	-65	-64	2.0	19	200	184	185	19935	93%	4%	3%
OLA054	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-76	-75	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	4182	0	-76	-75	2.0	12	200	184	186	19935	93%	4%	3%
OLA055	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	4179	0	-	-	0.0	-	200	185	-	19935	93%	4%	3%
OLA056	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-78	-77	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	4130	0	-78	-77	2.0	13	200	185	186	19935	93%	4%	3%
OLA057	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	4125	0	-	-	0.0	-	200	185	-	19935	93%	4%	3%

OLA058	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	4076	0	-77	-76	2.0	10	200	185	186	19935	93%	4%	3%
OLA059	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	4062	0	-	-	0.0	-	200	185	-	19935	93%	4%	3%
OLA060	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	4024	0	-77	-76	1.8	15	200	186	186	19935	93%	4%	3%
OLA061	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	3986	0	-	-	0.0	-	200	184	-	19935	93%	4%	3%
OLA062	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	21	3967	0	-77	-76	1.8	7	200	186	185	19935	93%	4%	3%
OLA063	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	24	3927	0	-	-	0.0	-	200	185	-	19935	93%	4%	3%
OLA064	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-76	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	3923	0	-76	-75	1.8	6	200	186	185	19935	93%	4%	3%
OLA065	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	30	3850	0	-	-	0.0	-	200	183	-	19935	93%	4%	3%
OLA066	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	3794	0	-	-	0.0	-	200	183	-	19935	93%	4%	3%
OLA067	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	3751	0	-75	-74	1.8	14	200	181	182	19935	93%	4%	3%
OLA068	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	3712	0	-	-	0.0	-	200	180	-	19935	93%	4%	3%
OLA069	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-74	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	3679	0	-74	-73	1.8	31	200	181	180	19935	93%	4%	3%
OLA070	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	3630	0	-75	-73	1.8	17	200	179	178	19935	93%	4%	3%
OLA071	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	3621	0	-	-	0.0	-	200	178	-	19935	93%	4%	3%
OLA072	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	39	3554	0	-	-	0.0	-	200	177	-	19935	93%	4%	3%
OLA073	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	3546	0	-75	-73	1.9	10	200	177	177	19935	93%	4%	3%
OLA074	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	3473	0	-	-	0.0	-	200	176	-	19935	93%	4%	3%
OLA075	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	3460	0	-	-	0.0	-	200	175	-	19935	93%	4%	3%
OLA076	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-80	-79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	72	3394	0	-	-	0.0	-	200	175	-	19935	93%	4%	3%
OLA077	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	85	86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	32	3168	0	85	86	6.0	3	200	174	174	19935	93%	4%	3%
OLA078	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	64	3153	0	-87	-86	6.0	3	200	172	172	19935	93%	4%	3%
OLA079	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	3086	0	-	-	0.0	-	200	175	-	19935	93%	4%	3%
OLA080	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	23	3084	0	-77	-76	1.7	30	200	174	174	19935	93%	4%	3%
OLA081	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	65	3037	0	-	-	0.0	-	200	175	-	19935	93%	4%	3%
OLA082	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	2745	0	-73	-72	1.8	15	200	181	181	19935	93%	4%	3%
OLA083	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	2697	0	-77	-75	2.0	13	200	182	182	19935	93%	4%	3%
OLA084	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-82	-81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	2644	0	-82	-81	1.6	18	200	183	182	19935	93%	4%	3%
OLA085	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	2532	0	-	-	0.0	-	200	182	-	19935	93%	4%	3%
OLA086	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-85	-81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	69	1171	0	-	-	0.0	-	200	193	-	19935	93%	4%	3%
OLA087	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	-82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	54	1132	0	-	-	0.0	-	200	194	-	19935	93%	4%	3%
OLA088	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-84	-80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	77	1109	0	-	-	0.0	-	200	194	-	19935	93%	4%	3%
OLA089	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	-81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	879	0	-	-	0.0	-	200	205	-	19935	93%	4%	3%
OLA090	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-83	-79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	74	858	0	-	-	0.0	-	200	205	-	19935	93%	4%	3%
OLA091	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-80	-74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	481	0	-	-	0.0	-	200	203	-	19935	93%	4%	3%
OLA092	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-78	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	335	0	-78	-71	3.0	3	200	203	203	19935	93%	4%	3%
OLA093	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-67	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	241	0	-	-	0.0	-	200	202	-	19935	93%	4%	3%
OLA094	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-67	-54	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	90	0	-67	-54	2.0	12	200	202	201	19935	93%	4%	3%
OLA095	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-65	-11	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	66	68	0	-65	-11	6.0	3	200	202	202	19935	93%	4%	3%
OLA096	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-31	57	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	98	98	0	-	-	0.0	-	200	202	-	19935	93%	4%	3%
OLA097	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-79	65	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	26	0	-79	65	1.8	5	200	202	201	19935	93%	4%	3%
OLA098	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-66	61	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	49	0	-66	61	1.8	4	200	202	202	19935	93%	4%	3%
OLA099	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	42	80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	53	0	-	-	0.0	-	201	201	-	19935	93%	4%	3%
OLA100	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	540	0	-87	-86	2.2	7	201	202	202	19935	93%	4%	3%
OLA101	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	613	0	-87	-86	2.1	6	201	201	201	19935	93%	4%	3%
OLA102	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	76	832	0	-	-	0.0	-	201	198	-	19935	93%	4%	3%
OLA103	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-62	-61	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	70	988	0	-	-	0.0	-	201	197	-	19935	93%	4%	3%
OLA104	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-57	-56	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	99	1170	0	-	-	0.0	-	201	196	-	19935	93%	4%	3%

Start of Construction - 2023 S06_NBa Kennedy Road Denison Street Steeles Avenue

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	165	7009	0	-89	-86	2.0	7	201	209	209	20862	98%	2%	0%
OLA002	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	6941	0	-	-	0.0	-	201	207	-	20862	98%	2%	0%
OLA003	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	6921	0	90	90	2.0	4	201	207	206	20862	98%	2%	0%
OLA004	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	64	6827	0	-	-	0.0	-	201	207	-	20862	98%	2%	0%
OLA005	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	37	6785	0	-	-	0.0	-	201	208	-	20862	98%	2%	0%
OLA006	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	6751	0	-90	-87	2.1	6	201	207	207	20862	98%	2%	0%
OLA007	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	6754	0	90	90	2.1	5	201	208	207	20862	98%	2%	0%
OLA008	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	6680	0	-90	-87	2.0	12	201	207	207	20862	98%	2%	0%
OLA009	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	31	6678	0	-	-	0.0	-	201	207	-	20862	98%	2%	0%
OLA010	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	6579	0	-90	-87	1.9	8	201	206	206	20862	98%	2%	0%
OLA011	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	71	6584	0	-	-	0.0	-	201	206	-	20862	98%	2%	0%
OLA012	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	6490	0	-89	-86	2.4	7	201	204	204	20862	98%	2%	0%
OLA013	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	6432	0	-	-	0.0	-	201	204	-	20862	98%	2%	0%
OLA014	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	28	6418	0	-	-	0.0	-	201	203	-	20862	98%	2%	0%
OLA015	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	6338	0	-	-	0.0	-	201	202	-	20862	98%	2%	0%
OLA016	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	74	6293	0	-	-	0.0	-	201	200	-	20862	98%	2%	0%
OLA017	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	-85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	29	6052	0	-88	-85	1.9	7	201	196	196	20862	98%	2%	0%
OLA018	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	-84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	6017	0	-88	-84	1.9	2	201	196	196	20862	98%	2%	0%
OLA019	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	-84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	54	5978	0	-	-	0.0	-	201	197	-	20862	98%	2%	0%
OLA020	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	-84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	33	5883	0	-87	-84	2.0	8	201	197	197	20862	98%	2%	0%
OLA021	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	-84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	5838	0	-	-	0.0	-	201	200	-	20862	98%	2%	0%
OLA022	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-85	-81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	5691	0	-85	-81	9.0	3	201	200	200	20862	98%	2%	0%
OLA023	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	83	5658	0	-	-	0.0	-	201	199	-	20862	98%	2%	0%
OLA024	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	5476	0	-	-	0.0	-	201	193	-	20862	98%	2%	0%
OLA025	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	-82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	5412	0	-86	-82	1.8	5	201	191	192	20862	98%	2%	0%
OLA026	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	5016	0	-	-	0.0	-	201	183	-	20862	98%	2%	0%
OLA027	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	4976	0	-90	-86	2.5	26	201	185	184	20862	98%	2%	0%
OLA028	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	4939	0	-	-	0.0	-	201	182	-	20862	98%	2%	0%
OLA029	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-80	-76	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	4917	0	-	-	0.0	-	201	185	-	20862	98%	2%	0%
OLA030	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-75	-71	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	4875	0	-	-	0.0	-	201	184	-	20862	98%	2%	0%
OLA031	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	52	4862	0	-	-	0.0	-	201	182	-	20862	98%	2%	0%
OLA032	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	72	4786	0	-	-	0.0	-	201	181	-	20862	98%	2%	0%
OLA033	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-56	-52	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	4794	0	-	-	0.0	-	201	182	-	20862	98%	2%	0%
OLA034	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	4777	0	-	-	0.0	-	201	182	-	20862	98%	2%	0%
OLA035	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	46	4707	0	-	-	0.0	-	201	182	-	20862	98%	2%	0%
OLA036	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-44	-40	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	4743	0	-	-	0.0	-	201	182	-	20862	98%	2%	0%
OLA037	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	4671	0	-	-	0.0	-	201	182	-	20862	98%	2%	0%
OLA038	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-33	-30	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	4701	0	-	-	0.0	-	201	182	-	20862	98%	2%	0%
OLA039	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	4637	0	-	-	0.0	-	201	181	-	20862	98%	2%	0%
OLA040	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-24	-21	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	4673	0	-	-	0.0	-	201	183	-	20862	98%	2%	0%
OLA041	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	4606	0	-	-	0.0	-	201	181	-	20862	98%	2%	0%
OLA042	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	4600	0	-	-	0.0	-	201	182	-	20862	98%	2%	0%
OLA043	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-18	-14	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	4656	0	-18	-14	1.8	12	201	183	182	20862	98%	2%	0%
OLA044	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	39	4582	0	-	-	0.0	-	201	182	-	20862	98%	2%	0%
OLA045	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	4565	0	-	-	0.0	-	201	183	-	20862	98%	2%	0%
OLA046	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-25	-21	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	4625	0	-	-	0.0	-	201	185	-	20862	98%	2%	0%
OLA047	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	4525	0	-	-	0.0	-	201	183	-	20862	98%	2%	0%
OLA048	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-45	-41	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	4542	0	-45	-41	2.0	10	201	184	184	20862	98%	2%	0%
OLA049	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-50	-47	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	4522	0	-50	-47	2.0	25	201	184	185	20862	98%	2%	0%
OLA050	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	4481	0	-	-	0.0	-	201	185	-	20862	98%	2%	0%
OLA051	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-57	-54	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	4468	0	-57	-54	2.0	11	201	184	185	20862	98%	2%	0%
OLA052	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	4431	0	-	-	0.0	-	201	185	-	20862	98%	2%	0%
OLA053	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-64	-61	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	4425	0	-64	-61	2.0	19	201	184	185	20862	98%	2%	0%
OLA054	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-75	-72	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	4373	0	-75	-72	2.0	12	201	184	186	20862	98%	2%	0%
OLA055	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	4368	0	-	-	0.0	-	201	185	-	20862	98%	2%	0%
OLA056	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-77	-73	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	4321	0	-77	-73	2.0	13	201	185	186	20862	98%	2%	0%
OLA057	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	4315	0	-	-	0.0	-	201	185	-	20862	98%	2%	0%

OLA058	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-76	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	4267	0	-76	-73	2.0	10	201	185	186	20862	98%	2%	0%
OLA059	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	4251	0	-	-	0.0	-	201	185	-	20862	98%	2%	0%
OLA060	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-76	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	4215	0	-76	-73	1.8	15	201	186	186	20862	98%	2%	0%
OLA061	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	4176	0	-	-	0.0	-	201	184	-	20862	98%	2%	0%
OLA062	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-76	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	21	4158	0	-76	-73	1.8	7	201	186	185	20862	98%	2%	0%
OLA063	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	24	4118	0	-	-	0.0	-	201	185	-	20862	98%	2%	0%
OLA064	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	4115	0	-75	-72	1.8	6	201	186	185	20862	98%	2%	0%
OLA065	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	30	4041	0	-	-	0.0	-	201	183	-	20862	98%	2%	0%
OLA066	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	3985	0	-	-	0.0	-	201	183	-	20862	98%	2%	0%
OLA067	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-74	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	3944	0	-74	-70	1.8	14	201	181	182	20862	98%	2%	0%
OLA068	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	3903	0	-	-	0.0	-	201	180	-	20862	98%	2%	0%
OLA069	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	3872	0	-73	-70	1.8	31	201	181	180	20862	98%	2%	0%
OLA070	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	3823	0	-73	-70	1.8	17	201	179	178	20862	98%	2%	0%
OLA071	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	3813	0	-	-	0.0	-	201	178	-	20862	98%	2%	0%
OLA072	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	39	3747	0	-	-	0.0	-	201	177	-	20862	98%	2%	0%
OLA073	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	3740	0	-73	-70	1.9	10	201	177	177	20862	98%	2%	0%
OLA074	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	3665	0	-	-	0.0	-	201	176	-	20862	98%	2%	0%
OLA075	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-72	-69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	3654	0	-	-	0.0	-	201	175	-	20862	98%	2%	0%
OLA076	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-79	-76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	72	3590	0	-	-	0.0	-	201	175	-	20862	98%	2%	0%
OLA077	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	86	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	32	3360	0	86	90	6.0	3	201	174	174	20862	98%	2%	0%
OLA078	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	-82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	64	3348	0	-86	-82	6.0	3	201	172	172	20862	98%	2%	0%
OLA079	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	3278	0	-	-	0.0	-	201	175	-	20862	98%	2%	0%
OLA080	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	23	3277	0	-	-	0.0	-	201	174	-	20862	98%	2%	0%
OLA081	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	65	3229	0	-	-	0.0	-	201	175	-	20862	98%	2%	0%
OLA082	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-72	-68	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	2942	0	-72	-68	1.8	15	201	181	181	20862	98%	2%	0%
OLA083	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	2894	0	-75	-72	2.0	13	201	182	182	20862	98%	2%	0%
OLA084	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	2841	0	-81	-77	1.6	18	201	183	182	20862	98%	2%	0%
OLA085	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	2729	0	-	-	0.0	-	201	182	-	20862	98%	2%	0%
OLA086	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	69	1360	0	-	-	0.0	-	201	193	-	20862	98%	2%	0%
OLA087	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-82	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	54	1320	0	-	-	0.0	-	201	194	-	20862	98%	2%	0%
OLA088	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-80	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	77	1299	0	-	-	0.0	-	201	194	-	20862	98%	2%	0%
OLA089	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	1069	0	-	-	0.0	-	201	205	-	20862	98%	2%	0%
OLA090	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-79	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	74	1051	0	-	-	0.0	-	201	205	-	20862	98%	2%	0%
OLA091	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-74	-66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	677	0	-	-	0.0	-	201	203	-	20862	98%	2%	0%
OLA092	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-71	-64	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	535	0	-71	-64	3.0	3	201	203	203	20862	98%	2%	0%
OLA093	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-67	-62	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	445	0	-	-	0.0	-	201	202	-	20862	98%	2%	0%
OLA094	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-71	-67	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	294	0	-	-	0.0	-	201	202	-	20862	98%	2%	0%
OLA095	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-65	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	66	239	0	-77	-65	6.0	3	201	202	202	20862	98%	2%	0%
OLA096	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	57	84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	98	178	0	-	-	0.0	-	201	202	-	20862	98%	2%	0%
OLA097	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-88	-79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	152	0	-88	-79	1.8	5	201	202	201	20862	98%	2%	0%
OLA098	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	123	0	-87	-66	1.8	4	201	202	202	20862	98%	2%	0%
OLA099	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-88	42	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	40	0	-88	-60	24.0	3	201	201	201	20862	98%	2%	0%
OLA100	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	41	0	-86	79	2.2	7	202	202	202	20862	98%	2%	0%
OLA101	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	38	0	-86	76	2.1	6	201	201	201	20862	98%	2%	0%
OLA102	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-72	-22	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	76	86	0	-	-	0.0	-	197	198	-	20862	98%	2%	0%
OLA103	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-61	-59	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	70	209	0	-	-	0.0	-	197	197	-	20862	98%	2%	0%
OLA104	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-64	-57	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	99	395	0	-	-	0.0	-	197	196	-	20862	98%	2%	0%

Start of Construction - 2023 S06_NBb Kennedy Road Denison Street Steeles Avenue

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	165	7703	0	-86	-86	2.0	7	197	209	209	20862	98%	2%	0%
OLA002	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	7630	0	-	-	0.0	-	197	207	-	20862	98%	2%	0%
OLA003	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	7605	0	-	-	0.0	-	197	207	-	20862	98%	2%	0%
OLA004	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	64	7510	0	-	-	0.0	-	197	207	-	20862	98%	2%	0%
OLA005	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	37	7469	0	-	-	0.0	-	197	208	-	20862	98%	2%	0%
OLA006	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	7438	0	-87	-86	2.1	6	197	207	207	20862	98%	2%	0%
OLA007	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	7437	0	-	-	0.0	-	197	208	-	20862	98%	2%	0%
OLA008	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	-87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	7367	0	-87	-87	2.0	12	197	207	207	20862	98%	2%	0%
OLA009	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	31	7362	0	-	-	0.0	-	197	207	-	20862	98%	2%	0%
OLA010	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	7267	0	-87	-86	1.9	8	197	206	206	20862	98%	2%	0%
OLA011	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	71	7266	0	-	-	0.0	-	197	206	-	20862	98%	2%	0%
OLA012	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	7179	0	-86	-86	2.4	7	197	204	204	20862	98%	2%	0%
OLA013	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	7121	0	-	-	0.0	-	197	204	-	20862	98%	2%	0%
OLA014	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	28	7102	0	-	-	0.0	-	197	203	-	20862	98%	2%	0%
OLA015	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	7023	0	-	-	0.0	-	197	202	-	20862	98%	2%	0%
OLA016	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	74	6976	0	-	-	0.0	-	197	200	-	20862	98%	2%	0%
OLA017	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-85	-84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	29	6742	0	-85	-84	1.9	7	197	196	196	20862	98%	2%	0%
OLA018	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-84	-84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	6707	0	-84	-84	1.9	2	197	196	196	20862	98%	2%	0%
OLA019	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-84	-84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	54	6669	0	-	-	0.0	-	197	197	-	20862	98%	2%	0%
OLA020	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-84	-84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	33	6573	0	-84	-84	2.0	8	197	197	197	20862	98%	2%	0%
OLA021	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-84	-83	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	6530	0	-	-	0.0	-	197	200	-	20862	98%	2%	0%
OLA022	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-81	-81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	6383	0	-81	-81	9.0	3	197	200	200	20862	98%	2%	0%
OLA023	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	83	6343	0	-	-	0.0	-	197	199	-	20862	98%	2%	0%
OLA024	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	6163	0	-	-	0.0	-	197	193	-	20862	98%	2%	0%
OLA025	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-82	-82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	6104	0	-82	-82	1.8	5	197	191	192	20862	98%	2%	0%
OLA026	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	5703	0	-	-	0.0	-	197	183	-	20862	98%	2%	0%
OLA027	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	-85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	5670	0	-86	-85	2.5	26	197	185	184	20862	98%	2%	0%
OLA028	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	5628	0	-	-	0.0	-	197	182	-	20862	98%	2%	0%
OLA029	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-76	-76	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	5612	0	-	-	0.0	-	197	185	-	20862	98%	2%	0%
OLA030	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-71	-71	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	5571	0	-	-	0.0	-	197	184	-	20862	98%	2%	0%
OLA031	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	52	5551	0	-	-	0.0	-	197	182	-	20862	98%	2%	0%
OLA032	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	72	5475	0	-	-	0.0	-	197	181	-	20862	98%	2%	0%
OLA033	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-52	-52	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	5490	0	-	-	0.0	-	197	182	-	20862	98%	2%	0%
OLA034	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	5470	0	-	-	0.0	-	197	182	-	20862	98%	2%	0%
OLA035	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	46	5402	0	-	-	0.0	-	197	182	-	20862	98%	2%	0%
OLA036	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-40	-40	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	5443	0	-	-	0.0	-	197	182	-	20862	98%	2%	0%
OLA037	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	5370	0	-	-	0.0	-	197	182	-	20862	98%	2%	0%
OLA038	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-30	-29	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	5404	0	-	-	0.0	-	197	182	-	20862	98%	2%	0%
OLA039	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	5339	0	-	-	0.0	-	197	181	-	20862	98%	2%	0%
OLA040	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-21	-20	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	5380	0	-	-	0.0	-	197	183	-	20862	98%	2%	0%
OLA041	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	5311	0	-	-	0.0	-	197	181	-	20862	98%	2%	0%
OLA042	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	5307	0	-	-	0.0	-	197	182	-	20862	98%	2%	0%
OLA043	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-14	-14	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	5366	0	-14	-14	1.8	12	197	183	182	20862	98%	2%	0%
OLA044	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	39	5293	0	-	-	0.0	-	197	182	-	20862	98%	2%	0%
OLA045	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	5279	0	-	-	0.0	-	197	183	-	20862	98%	2%	0%
OLA046	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-21	-21	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	5341	0	-	-	0.0	-	197	185	-	20862	98%	2%	0%
OLA047	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	5242	0	-	-	0.0	-	197	183	-	20862	98%	2%	0%
OLA048	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-41	-41	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	5265	0	-41	-41	2.0	10	197	184	184	20862	98%	2%	0%
OLA049	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-47	-47	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	5247	0	-47	-47	2.0	25	197	184	185	20862	98%	2%	0%
OLA050	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	5202	0	-	-	0.0	-	197	185	-	20862	98%	2%	0%
OLA051	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-54	-54	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	5194	0	-54	-54	2.0	11	197	184	185	20862	98%	2%	0%
OLA052	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	5154	0	-	-	0.0	-	197	185	-	20862	98%	2%	0%
OLA053	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-61	-61	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	5153	0	-	-	0.0	-	197	184	-	20862	98%	2%	0%
OLA054	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-72	-72	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	5102	0	-	-	0.0	-	197	184	-	20862	98%	2%	0%
OLA055	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	5093	0	-	-	0.0	-	197	185	-	20862	98%	2%	0%
OLA056	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-73	-73	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	5051	0	-	-	0.0	-	197	185	-	20862	98%	2%	0%
OLA057	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	5040	0	-	-	0.0	-	197	185	-	20862	98%	2%	0%

OLA058	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	4998	0	-	-	0.0	-	197	185	-	20862	98%	2%	0%
OLA059	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	4978	0	-	-	0.0	-	197	185	-	20862	98%	2%	0%
OLA060	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	4947	0	-	-	0.0	-	197	186	-	20862	98%	2%	0%
OLA061	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	4904	0	-	-	0.0	-	197	184	-	20862	98%	2%	0%
OLA062	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	21	4891	0	-	-	0.0	-	197	186	-	20862	98%	2%	0%
OLA063	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	24	4848	0	-	-	0.0	-	197	185	-	20862	98%	2%	0%
OLA064	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-72	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	4850	0	-	-	0.0	-	197	186	-	20862	98%	2%	0%
OLA065	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	30	4772	0	-	-	0.0	-	197	183	-	20862	98%	2%	0%
OLA066	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	4717	0	-	-	0.0	-	197	183	-	20862	98%	2%	0%
OLA067	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-70	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	4682	0	-70	-70	1.8	14	197	181	182	20862	98%	2%	0%
OLA068	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	4637	0	-	-	0.0	-	197	180	-	20862	98%	2%	0%
OLA069	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-70	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	4612	0	-70	-70	1.8	31	197	181	180	20862	98%	2%	0%
OLA070	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-70	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	4563	0	-70	-70	1.8	17	197	179	178	20862	98%	2%	0%
OLA071	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	4548	0	-	-	0.0	-	197	178	-	20862	98%	2%	0%
OLA072	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	39	4483	0	-	-	0.0	-	197	177	-	20862	98%	2%	0%
OLA073	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-70	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	4480	0	-70	-70	1.9	10	197	177	177	20862	98%	2%	0%
OLA074	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	4402	0	-	-	0.0	-	197	176	-	20862	98%	2%	0%
OLA075	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-69	-69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	4398	0	-	-	0.0	-	197	175	-	20862	98%	2%	0%
OLA076	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-76	-76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	72	4334	0	-	-	0.0	-	197	175	-	20862	98%	2%	0%
OLA077	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	32	4097	0	90	90	6.0	3	197	174	174	20862	98%	2%	0%
OLA078	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-82	-82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	64	4091	0	-82	-82	6.0	3	197	172	172	20862	98%	2%	0%
OLA079	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	4016	0	-	-	0.0	-	197	175	-	20862	98%	2%	0%
OLA080	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-72	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	23	4019	0	-	-	0.0	-	197	174	-	20862	98%	2%	0%
OLA081	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	65	3965	0	-	-	0.0	-	197	175	-	20862	98%	2%	0%
OLA082	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-68	-68	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	3693	0	-68	-68	1.8	15	197	181	181	20862	98%	2%	0%
OLA083	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-72	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	3646	0	-72	-72	2.0	13	197	182	182	20862	98%	2%	0%
OLA084	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-78	-77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	3594	0	-78	-77	1.6	18	197	183	182	20862	98%	2%	0%
OLA085	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	3481	0	-	-	0.0	-	197	182	-	20862	98%	2%	0%
OLA086	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	69	2103	0	-	-	0.0	-	197	193	-	20862	98%	2%	0%
OLA087	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-74	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	54	2062	0	-	-	0.0	-	197	194	-	20862	98%	2%	0%
OLA088	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	77	2045	0	-	-	0.0	-	197	194	-	20862	98%	2%	0%
OLA089	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	1818	0	-	-	0.0	-	197	205	-	20862	98%	2%	0%
OLA090	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-72	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	74	1806	0	-	-	0.0	-	197	205	-	20862	98%	2%	0%
OLA091	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-67	-66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	1444	0	-	-	0.0	-	197	203	-	20862	98%	2%	0%
OLA092	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-66	-64	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	1308	0	-66	-64	3.0	3	197	203	203	20862	98%	2%	0%
OLA093	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-64	-62	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	1223	0	-	-	0.0	-	197	202	-	20862	98%	2%	0%
OLA094	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	1072	0	-	-	0.0	-	197	202	-	20862	98%	2%	0%
OLA095	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	66	1012	0	-80	-77	6.0	3	197	202	202	20862	98%	2%	0%
OLA096	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	82	84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	98	934	0	-	-	0.0	-	197	202	-	20862	98%	2%	0%
OLA097	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	930	0	-90	-88	1.8	5	197	202	201	20862	98%	2%	0%
OLA098	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	894	0	-90	-87	1.8	4	197	202	202	20862	98%	2%	0%
OLA099	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	744	0	-90	-88	24.0	3	197	201	201	20862	98%	2%	0%
OLA100	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	75	79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	245	0	75	79	2.2	7	197	202	202	20862	98%	2%	0%
OLA101	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	73	76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	174	0	73	76	2.1	6	197	201	201	20862	98%	2%	0%
OLA102	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-22	62	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	76	76	0	50	62	6.0	3	197	198	198	20862	98%	2%	0%
OLA103	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-59	33	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	70	70	0	-	-	0.0	-	196	197	-	20862	98%	2%	0%
OLA104	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-64	-54	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	99	173	0	-	-	0.0	-	196	196	-	20862	98%	2%	0%

Start of Construction - 2023 S06_NBc Kennedy Road Denison Street Steeles Avenue

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	165	7928	0	-86	-86	2.0	7	196	209	209	20862	98%	2%	0%
OLA002	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	7854	0	-	-	0.0	-	196	207	-	20862	98%	2%	0%
OLA003	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	7829	0	-	-	0.0	-	196	207	-	20862	98%	2%	0%
OLA004	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	64	7734	0	-	-	0.0	-	196	207	-	20862	98%	2%	0%
OLA005	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	37	7693	0	-	-	0.0	-	196	208	-	20862	98%	2%	0%
OLA006	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	7663	0	-87	-86	2.1	6	196	207	207	20862	98%	2%	0%
OLA007	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	7662	0	-	-	0.0	-	196	208	-	20862	98%	2%	0%
OLA008	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	-87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	7592	0	-87	-87	2.0	12	196	207	207	20862	98%	2%	0%
OLA009	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	31	7587	0	-	-	0.0	-	196	207	-	20862	98%	2%	0%
OLA010	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	7492	0	-87	-86	1.9	8	196	206	206	20862	98%	2%	0%
OLA011	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	71	7490	0	-	-	0.0	-	196	206	-	20862	98%	2%	0%
OLA012	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	7404	0	-86	-86	2.4	7	196	204	204	20862	98%	2%	0%
OLA013	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	7345	0	-	-	0.0	-	196	204	-	20862	98%	2%	0%
OLA014	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	28	7327	0	-	-	0.0	-	196	203	-	20862	98%	2%	0%
OLA015	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	7248	0	-	-	0.0	-	196	202	-	20862	98%	2%	0%
OLA016	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	74	7201	0	-	-	0.0	-	196	200	-	20862	98%	2%	0%
OLA017	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-85	-84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	29	6967	0	-85	-84	1.9	7	196	196	196	20862	98%	2%	0%
OLA018	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-85	-84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	6932	0	-85	-84	1.9	2	196	196	196	20862	98%	2%	0%
OLA019	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-84	-84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	54	6894	0	-	-	0.0	-	196	197	-	20862	98%	2%	0%
OLA020	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-84	-84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	33	6798	0	-84	-84	2.0	8	196	197	197	20862	98%	2%	0%
OLA021	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-84	-83	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	6755	0	-	-	0.0	-	196	200	-	20862	98%	2%	0%
OLA022	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-81	-81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	6608	0	-81	-81	9.0	3	196	200	200	20862	98%	2%	0%
OLA023	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	83	6567	0	-	-	0.0	-	196	199	-	20862	98%	2%	0%
OLA024	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	6388	0	-	-	0.0	-	196	193	-	20862	98%	2%	0%
OLA025	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-82	-82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	6330	0	-82	-82	1.8	5	196	191	192	20862	98%	2%	0%
OLA026	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	5928	0	-	-	0.0	-	196	183	-	20862	98%	2%	0%
OLA027	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	-85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	5895	0	-86	-85	2.5	26	196	185	184	20862	98%	2%	0%
OLA028	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	5853	0	-	-	0.0	-	196	182	-	20862	98%	2%	0%
OLA029	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-76	-76	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	5837	0	-	-	0.0	-	196	185	-	20862	98%	2%	0%
OLA030	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-72	-71	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	5796	0	-	-	0.0	-	196	184	-	20862	98%	2%	0%
OLA031	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	52	5776	0	-	-	0.0	-	196	182	-	20862	98%	2%	0%
OLA032	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	72	5700	0	-	-	0.0	-	196	181	-	20862	98%	2%	0%
OLA033	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-52	-52	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	5716	0	-	-	0.0	-	196	182	-	20862	98%	2%	0%
OLA034	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	5695	0	-	-	0.0	-	196	182	-	20862	98%	2%	0%
OLA035	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	46	5628	0	-	-	0.0	-	196	182	-	20862	98%	2%	0%
OLA036	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-40	-40	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	5669	0	-	-	0.0	-	196	182	-	20862	98%	2%	0%
OLA037	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	5596	0	-	-	0.0	-	196	182	-	20862	98%	2%	0%
OLA038	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-30	-29	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	5630	0	-	-	0.0	-	196	182	-	20862	98%	2%	0%
OLA039	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	5565	0	-	-	0.0	-	196	181	-	20862	98%	2%	0%
OLA040	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-21	-20	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	5606	0	-	-	0.0	-	196	183	-	20862	98%	2%	0%
OLA041	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	5537	0	-	-	0.0	-	196	181	-	20862	98%	2%	0%
OLA042	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	5533	0	-	-	0.0	-	196	182	-	20862	98%	2%	0%
OLA043	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-15	-14	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	5593	0	-15	-14	1.8	12	196	183	182	20862	98%	2%	0%
OLA044	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	39	5519	0	-	-	0.0	-	196	182	-	20862	98%	2%	0%
OLA045	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	5505	0	-	-	0.0	-	196	183	-	20862	98%	2%	0%
OLA046	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-22	-21	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	5567	0	-	-	0.0	-	196	185	-	20862	98%	2%	0%
OLA047	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	5469	0	-	-	0.0	-	196	183	-	20862	98%	2%	0%
OLA048	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-42	-41	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	5492	0	-42	-41	2.0	10	196	184	184	20862	98%	2%	0%
OLA049	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-48	-47	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	5473	0	-48	-47	2.0	25	196	184	185	20862	98%	2%	0%
OLA050	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	5429	0	-	-	0.0	-	196	185	-	20862	98%	2%	0%
OLA051	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-54	-54	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	5421	0	-54	-54	2.0	11	196	184	185	20862	98%	2%	0%
OLA052	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	5381	0	-	-	0.0	-	196	185	-	20862	98%	2%	0%
OLA053	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-62	-61	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	5380	0	-62	-61	2.0	19	196	184	185	20862	98%	2%	0%
OLA054	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-72	-72	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	5329	0	-72	-72	2.0	12	196	184	186	20862	98%	2%	0%
OLA055	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	5320	0	-	-	0.0	-	196	185	-	20862	98%	2%	0%
OLA056	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-74	-73	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	5278	0	-74	-73	2.0	13	196	185	186	20862	98%	2%	0%
OLA057	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	5267	0	-	-	0.0	-	196	185	-	20862	98%	2%	0%

OLA058	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-74	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	5225	0	-74	-73	2.0	10	196	185	186	20862	98%	2%	0%
OLA059	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	5205	0	-	-	0.0	-	196	185	-	20862	98%	2%	0%
OLA060	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	5174	0	-73	-73	1.8	15	196	186	186	20862	98%	2%	0%
OLA061	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	5131	0	-	-	0.0	-	196	184	-	20862	98%	2%	0%
OLA062	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	21	5117	0	-73	-73	1.8	7	196	186	185	20862	98%	2%	0%
OLA063	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	24	5075	0	-	-	0.0	-	196	185	-	20862	98%	2%	0%
OLA064	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	5076	0	-73	-72	1.8	6	196	186	185	20862	98%	2%	0%
OLA065	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	30	4999	0	-	-	0.0	-	196	183	-	20862	98%	2%	0%
OLA066	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	4944	0	-	-	0.0	-	196	183	-	20862	98%	2%	0%
OLA067	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-71	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	4909	0	-71	-70	1.8	14	196	181	182	20862	98%	2%	0%
OLA068	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	4863	0	-	-	0.0	-	196	180	-	20862	98%	2%	0%
OLA069	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-71	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	4838	0	-71	-70	1.8	31	196	181	180	20862	98%	2%	0%
OLA070	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-71	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	4789	0	-71	-70	1.8	17	196	179	178	20862	98%	2%	0%
OLA071	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	4775	0	-	-	0.0	-	196	178	-	20862	98%	2%	0%
OLA072	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	39	4710	0	-	-	0.0	-	196	177	-	20862	98%	2%	0%
OLA073	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-71	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	4707	0	-71	-70	1.9	10	196	177	177	20862	98%	2%	0%
OLA074	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	4629	0	-	-	0.0	-	196	176	-	20862	98%	2%	0%
OLA075	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-70	-69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	4625	0	-	-	0.0	-	196	175	-	20862	98%	2%	0%
OLA076	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	72	4561	0	-	-	0.0	-	196	175	-	20862	98%	2%	0%
OLA077	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	32	4324	0	89	90	6.0	3	196	174	174	20862	98%	2%	0%
OLA078	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-83	-82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	64	4318	0	-83	-82	6.0	3	196	172	172	20862	98%	2%	0%
OLA079	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	4242	0	-	-	0.0	-	196	175	-	20862	98%	2%	0%
OLA080	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	23	4246	0	-	-	0.0	-	196	174	-	20862	98%	2%	0%
OLA081	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	65	4192	0	-	-	0.0	-	196	175	-	20862	98%	2%	0%
OLA082	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-70	-68	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	3919	0	-70	-68	1.8	15	196	181	181	20862	98%	2%	0%
OLA083	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	3872	0	-73	-72	2.0	13	196	182	182	20862	98%	2%	0%
OLA084	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-79	-78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	3820	0	-79	-78	1.6	18	196	183	182	20862	98%	2%	0%
OLA085	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	3707	0	-	-	0.0	-	196	182	-	20862	98%	2%	0%
OLA086	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	69	2329	0	-	-	0.0	-	196	193	-	20862	98%	2%	0%
OLA087	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-76	-74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	54	2288	0	-	-	0.0	-	196	194	-	20862	98%	2%	0%
OLA088	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	77	2271	0	-	-	0.0	-	196	194	-	20862	98%	2%	0%
OLA089	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	2044	0	-	-	0.0	-	196	205	-	20862	98%	2%	0%
OLA090	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-74	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	74	2031	0	-	-	0.0	-	196	205	-	20862	98%	2%	0%
OLA091	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-71	-67	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	1667	0	-	-	0.0	-	196	203	-	20862	98%	2%	0%
OLA092	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-70	-66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	1529	0	-70	-66	3.0	3	196	203	203	20862	98%	2%	0%
OLA093	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-69	-64	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	1442	0	-	-	0.0	-	196	202	-	20862	98%	2%	0%
OLA094	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-80	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	1287	0	-	-	0.0	-	196	202	-	20862	98%	2%	0%
OLA095	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	66	1225	0	-	-	0.0	-	196	202	-	20862	98%	2%	0%
OLA096	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	77	82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	98	1157	0	-	-	0.0	-	196	202	-	20862	98%	2%	0%
OLA097	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	1145	0	-	-	0.0	-	196	202	-	20862	98%	2%	0%
OLA098	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	1107	0	-	-	0.0	-	196	202	-	20862	98%	2%	0%
OLA099	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	959	0	-	-	0.0	-	196	201	-	20862	98%	2%	0%
OLA100	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	67	75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	471	0	67	75	2.2	7	196	202	202	20862	98%	2%	0%
OLA101	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	66	73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	400	0	66	73	2.1	6	196	201	201	20862	98%	2%	0%
OLA102	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	62	65	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	76	219	0	62	65	6.0	3	196	198	198	20862	98%	2%	0%
OLA103	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	33	70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	70	82	0	65	70	6.0	3	196	197	197	20862	98%	2%	0%
OLA104	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-54	46	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	99	99	0	40	46	6.0	3	194	196	196	20862	98%	2%	0%

Start of Construction - 2023 S01_SB Kennedy Road Major Mackenzie Drive 16th Avenue

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	31	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	174	174	0	-86	31	2.0	7	206	209	209	13635	96%	2%	2%
OLA002	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	72	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	57	57	0	-60	72	6.0	3	206	207	207	13635	96%	2%	2%
OLA003	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	-80	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	33	33	0	-80	88	2.0	4	206	207	206	13635	96%	2%	2%
OLA004	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	-79	87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	55	55	0	-79	45	6.0	3	206	207	207	13635	96%	2%	2%
OLA005	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	-85	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	28	0	-85	89	2.2	5	206	208	207	13635	96%	2%	2%
OLA006	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	40	0	-90	84	2.1	6	207	207	207	13635	96%	2%	2%
OLA007	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	-85	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	32	0	-85	88	2.1	5	207	208	207	13635	96%	2%	2%
OLA008	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	40	0	-90	84	2.0	12	207	207	207	13635	96%	2%	2%
OLA009	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	22	22	0	-87	89	2.1	5	207	207	207	13635	96%	2%	2%
OLA010	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	49	49	0	-89	85	1.9	8	206	206	206	13635	96%	2%	2%
OLA011	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	-84	87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	62	0	-80	-45	9.0	3	206	206	206	13635	96%	2%	2%
OLA012	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	47	0	-89	86	2.4	7	205	204	204	13635	96%	2%	2%
OLA013	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	56	56	0	-65	85	6.0	3	204	204	204	13635	96%	2%	2%
OLA014	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	19	19	0	-88	89	2.0	4	203	203	203	13635	96%	2%	2%
OLA015	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	24	24	0	-87	90	2.0	6	201	202	202	13635	96%	2%	2%
OLA016	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	-84	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	65	65	0	-	-	0.0	-	200	200	-	13635	96%	2%	2%
OLA017	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	38	38	0	-87	89	1.9	7	195	196	196	13635	96%	2%	2%
OLA018	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	40	0	-87	89	1.9	2	195	196	196	13635	96%	2%	2%
OLA019	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	-85	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	62	0	-60	50	6.0	3	195	197	197	13635	96%	2%	2%
OLA020	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	39	0	-86	90	2.0	8	196	197	197	13635	96%	2%	2%
OLA021	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	-84	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	69	69	0	-60	50	6.0	3	197	200	200	13635	96%	2%	2%
OLA022	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	-82	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	48	0	-82	20	9.0	3	201	200	200	13635	96%	2%	2%
OLA023	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	73	73	0	-50	50	6.0	3	201	199	199	13635	96%	2%	2%
OLA024	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	32	0	-45	45	6.0	3	195	193	193	13635	96%	2%	2%
OLA025	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	-80	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	37	37	0	-80	90	1.8	5	191	191	192	13635	96%	2%	2%
OLA026	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-41	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	53	71	0	-	-	0.0	-	184	183	-	13635	96%	2%	2%
OLA027	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	60	87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	49	101	0	-	-	0.0	-	184	185	-	13635	96%	2%	2%
OLA028	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	-74	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	128	0	-	-	0.0	-	184	182	-	13635	96%	2%	2%
OLA029	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	77	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	55	159	0	-	-	0.0	-	184	185	-	13635	96%	2%	2%
OLA030	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	85	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	51	200	0	-	-	0.0	-	184	184	-	13635	96%	2%	2%
OLA031	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	-73	-64	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	203	0	-	-	0.0	-	184	182	-	13635	96%	2%	2%
OLA032	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	-68	-62	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	65	279	0	-	-	0.0	-	184	181	-	13635	96%	2%	2%
OLA033	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	283	0	-	-	0.0	-	184	182	-	13635	96%	2%	2%
OLA034	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	-65	-64	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	286	0	-	-	0.0	-	184	182	-	13635	96%	2%	2%
OLA035	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	-59	-52	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	361	0	-59	-52	6.0	3	184	182	182	13635	96%	2%	2%
OLA036	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	344	0	-	-	0.0	-	184	182	-	13635	96%	2%	2%
OLA037	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	-55	-44	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	406	0	-	-	0.0	-	184	182	-	13635	96%	2%	2%
OLA038	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	403	0	-	-	0.0	-	184	182	-	13635	96%	2%	2%
OLA039	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	-54	-40	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	450	0	-	-	0.0	-	184	181	-	13635	96%	2%	2%
OLA040	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	452	0	-	-	0.0	-	184	183	-	13635	96%	2%	2%
OLA041	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	-47	-29	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	36	502	0	-	-	0.0	-	184	181	-	13635	96%	2%	2%
OLA042	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	-49	-30	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	521	0	-	-	0.0	-	184	182	-	13635	96%	2%	2%
OLA043	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	37	496	0	-	-	0.0	-	184	183	-	13635	96%	2%	2%
OLA044	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	-52	-30	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	563	0	-44	-30	1.8	9	184	182	182	13635	96%	2%	2%
OLA045	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	-61	-37	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	601	0	-	-	0.0	-	184	183	-	13635	96%	2%	2%
OLA046	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	577	0	-	-	0.0	-	184	185	-	13635	96%	2%	2%
OLA047	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	-74	-49	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	666	0	-74	-49	6.0	11	184	183	183	13635	96%	2%	2%
OLA048	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	88	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	724	0	-	-	0.0	-	184	184	-	13635	96%	2%	2%
OLA049	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	82	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	757	0	-	-	0.0	-	184	184	-	13635	96%	2%	2%
OLA050	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-67	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	742	0	-	-	0.0	-	184	185	-	13635	96%	2%	2%
OLA051	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	77	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	810	0	77	84	2.0	11	184	184	185	13635	96%	2%	2%
OLA052	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-73	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	800	0	-	-	0.0	-	184	185	-	13635	96%	2%	2%
OLA053	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	70	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	862	0	70	77	2.0	19	184	184	185	13635	96%	2%	2%
OLA054	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	61	86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	908	0	61	73	2.0	12	184	184	186	13635	96%	2%	2%
OLA055	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	36	863	0	-	-	0.0	-	184	185	-	13635	96%	2%	2%
OLA056	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	61	84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	955	0	61	75	2.0	13	184	185	186	13635	96%	2%	2%
OLA057	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	37	913	0	-	-	0.0	-	184	185	-	13635	96%	2%	2%

OLA058	68	0.0%	2	Manual	1	Typical Asphalt or Concrete	62	84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	32	1003	0	62	78	2.0	10	184	185	186	13635	96%	2%	2%
OLA059	68	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	975	0	-	-	0.0	-	184	185	-	13635	96%	2%	2%
OLA060	68	0.0%	2	Manual	1	Typical Asphalt or Concrete	64	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	37	1054	0	64	85	1.8	15	184	186	186	13635	96%	2%	2%
OLA061	68	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	35	1044	0	-	-	0.0	-	184	184	-	13635	96%	2%	2%
OLA062	68	0.0%	2	Manual	1	Typical Asphalt or Concrete	65	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	30	1102	0	65	85	1.8	7	184	186	185	13635	96%	2%	2%
OLA063	68	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	17	1111	0	-	-	0.0	-	184	185	-	13635	96%	2%	2%
OLA064	68	0.0%	2	Manual	1	Typical Asphalt or Concrete	66	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	52	1157	0	66	83	1.8	6	184	186	185	13635	96%	2%	2%
OLA065	68	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	1182	0	-	-	0.0	-	184	183	-	13635	96%	2%	2%
OLA066	68	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	1230	0	-	-	0.0	-	184	183	-	13635	96%	2%	2%
OLA067	68	0.0%	2	Manual	1	Typical Asphalt or Concrete	69	86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	1324	0	69	86	1.8	14	184	181	182	13635	96%	2%	2%
OLA068	68	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	1313	0	-	-	0.0	-	184	180	-	13635	96%	2%	2%
OLA069	68	0.0%	2	Manual	1	Typical Asphalt or Concrete	70	86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	59	1394	0	70	86	1.8	31	184	181	180	13635	96%	2%	2%
OLA070	68	0.0%	2	Manual	1	Typical Asphalt or Concrete	71	86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	1435	0	71	86	1.8	17	184	179	178	13635	96%	2%	2%
OLA071	68	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	1403	0	-	-	0.0	-	184	178	-	13635	96%	2%	2%
OLA072	68	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	1467	0	-	-	0.0	-	184	177	-	13635	96%	2%	2%
OLA073	68	0.0%	2	Manual	1	Typical Asphalt or Concrete	72	86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	1516	0	72	86	1.9	10	184	177	177	13635	96%	2%	2%
OLA074	68	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	1543	0	-	-	0.0	-	184	176	-	13635	96%	2%	2%
OLA075	68	0.0%	2	Manual	1	Typical Asphalt or Concrete	73	86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	68	1612	0	-	-	0.0	-	184	175	-	13635	96%	2%	2%
OLA076	68	0.0%	2	Manual	1	Typical Asphalt or Concrete	67	79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	78	1674	0	-	-	0.0	-	184	175	-	13635	96%	2%	2%
OLA077	68	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	1813	0	-	-	0.0	-	184	174	-	13635	96%	2%	2%
OLA078	68	0.0%	2	Manual	1	Typical Asphalt or Concrete	65	75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	72	1868	0	-	-	0.0	-	184	172	-	13635	96%	2%	2%
OLA079	68	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	36	1886	0	-	-	0.0	-	184	175	-	13635	96%	2%	2%
OLA080	68	0.0%	2	Manual	1	Typical Asphalt or Concrete	78	86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	31	1916	0	-	-	0.0	-	184	174	-	13635	96%	2%	2%
OLA081	68	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	1928	0	-	-	0.0	-	184	175	-	13635	96%	2%	2%
OLA082	68	2.6%	2	Manual	1	Typical Asphalt or Concrete	80	87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	2276	0	-	-	0.0	-	184	181	-	13635	96%	2%	2%
OLA083	68	2.6%	2	Manual	1	Typical Asphalt or Concrete	77	84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	2319	0	77	84	2.0	13	184	182	182	13635	96%	2%	2%
OLA084	68	0.0%	2	Manual	1	Typical Asphalt or Concrete	71	78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	2373	0	71	78	1.6	18	184	183	182	13635	96%	2%	2%
OLA085	68	0.0%	2	Manual	1	Typical Asphalt or Concrete	54	60	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	34	2467	0	54	60	2.6	8	184	182	181	13635	96%	2%	2%
OLA086	68	3.8%	2	Manual	1	Typical Asphalt or Concrete	89	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	77	3719	0	89	89	2.0	19	184	193	194	13635	96%	2%	2%
OLA087	68	3.8%	2	Manual	1	Typical Asphalt or Concrete	89	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	3757	0	89	89	2.0	55	184	194	194	13635	96%	2%	2%
OLA088	68	3.8%	2	Manual	1	Typical Asphalt or Concrete	89	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	84	3782	0	89	89	6.0	21	184	194	194	13635	96%	2%	2%
OLA089	68	3.8%	2	Manual	1	Typical Asphalt or Concrete	88	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	4009	0	-	-	0.0	-	184	205	-	13635	96%	2%	2%
OLA090	68	3.8%	2	Manual	1	Typical Asphalt or Concrete	88	88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	81	4035	0	-	-	0.0	-	184	205	-	13635	96%	2%	2%
OLA091	68	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	4411	0	-	-	0.0	-	184	203	-	13635	96%	2%	2%
OLA092	68	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	4557	0	-	-	0.0	-	184	203	-	13635	96%	2%	2%
OLA093	68	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	4655	0	89	89	1.7	17	184	202	201	13635	96%	2%	2%
OLA094	68	0.0%	2	Manual	1	Typical Asphalt or Concrete	76	76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	4827	0	-	-	0.0	-	184	202	-	13635	96%	2%	2%
OLA095	68	0.0%	2	Manual	1	Typical Asphalt or Concrete	68	68	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	73	4897	0	-	-	0.0	-	184	202	-	13635	96%	2%	2%
OLA096	68	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	91	4886	0	-	-	0.0	-	184	202	-	13635	96%	2%	2%
OLA097	68	0.0%	2	Manual	1	Typical Asphalt or Concrete	60	60	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	33	4948	0	60	60	1.8	5	184	202	201	13635	96%	2%	2%
OLA098	68	0.0%	2	Manual	1	Typical Asphalt or Concrete	59	59	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	4992	0	-	-	0.0	-	184	202	-	13635	96%	2%	2%
OLA099	68	0.0%	2	Manual	1	Typical Asphalt or Concrete	59	59	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	47	5114	0	-	-	0.0	-	184	201	-	13635	96%	2%	2%
OLA100	68	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	5517	0	-	-	0.0	-	184	202	-	13635	96%	2%	2%
OLA101	68	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	5584	0	-	-	0.0	-	184	201	-	13635	96%	2%	2%
OLA102	68	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	69	5769	0	-	-	0.0	-	184	198	-	13635	96%	2%	2%
OLA103	68	0.0%	2	Manual	1	Typical Asphalt or Concrete	-88	-87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	62	5938	0	-	-	0.0	-	184	197	-	13635	96%	2%	2%
OLA104	68	0.0%	2	Manual	1	Typical Asphalt or Concrete	-80	-78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	91	6137	0	-	-	0.0	-	184	196	-	13635	96%	2%	2%

Start of Construction - 2023 S02_SBa Kennedy Road 16th Avenue Highway 7

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	174	1949	0	-87	-86	2.0	7	184	209	209	19992	95%	3%	3%
OLA002	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	57	1878	0	-	-	0.0	-	184	207	-	19992	95%	3%	3%
OLA003	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	88	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	33	1859	0	88	88	2.0	4	184	207	206	19992	95%	3%	3%
OLA004	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	87	87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	55	1766	0	-	-	0.0	-	184	207	-	19992	95%	3%	3%
OLA005	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	88	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	1723	0	88	89	2.2	5	184	208	207	19992	95%	3%	3%
OLA006	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	1688	0	-90	-90	2.1	6	184	207	207	19992	95%	3%	3%
OLA007	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	87	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	1691	0	87	88	2.1	5	184	208	207	19992	95%	3%	3%
OLA008	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	1616	0	-90	-90	2.0	12	184	207	207	19992	95%	3%	3%
OLA009	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	88	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	22	1615	0	88	89	2.1	5	184	207	207	19992	95%	3%	3%
OLA010	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	49	1516	0	-90	-89	1.9	8	184	206	206	19992	95%	3%	3%
OLA011	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	86	87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	1523	0	-	-	0.0	-	184	206	-	19992	95%	3%	3%
OLA012	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	1427	0	-90	-89	2.4	7	184	204	204	19992	95%	3%	3%
OLA013	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	56	1368	0	-	-	0.0	-	184	204	-	19992	95%	3%	3%
OLA014	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	88	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	19	1355	0	88	89	2.0	4	184	203	203	19992	95%	3%	3%
OLA015	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	24	1276	0	89	90	2.0	6	184	202	202	19992	95%	3%	3%
OLA016	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	88	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	65	1233	0	-	-	0.0	-	184	200	-	19992	95%	3%	3%
OLA017	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	38	989	0	-89	-87	1.9	7	184	196	196	19992	95%	3%	3%
OLA018	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	954	0	-89	-87	1.9	2	184	196	196	19992	95%	3%	3%
OLA019	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	-85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	915	0	-	-	0.0	-	184	197	-	19992	95%	3%	3%
OLA020	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	820	0	-88	-86	2.0	8	184	197	197	19992	95%	3%	3%
OLA021	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	-83	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	69	776	0	-	-	0.0	-	184	200	-	19992	95%	3%	3%
OLA022	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-85	-82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	629	0	-85	-82	9.0	3	184	200	200	19992	95%	3%	3%
OLA023	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	84	84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	73	600	0	-	-	0.0	-	184	199	-	19992	95%	3%	3%
OLA024	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	88	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	414	0	-	-	0.0	-	184	193	-	19992	95%	3%	3%
OLA025	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	-80	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	37	351	0	-86	-80	1.8	5	184	191	192	19992	95%	3%	3%
OLA026	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-41	68	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	53	53	0	55	68	6.0	3	184	183	183	19992	95%	3%	3%
OLA027	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-84	60	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	49	49	0	-84	-15	2.5	26	184	185	184	19992	95%	3%	3%
OLA028	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-74	66	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	32	0	-	-	0.0	-	184	182	-	19992	95%	3%	3%
OLA029	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-66	77	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	55	55	0	-62	65	2.5	33	183	185	184	19992	95%	3%	3%
OLA030	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-47	85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	51	51	0	-40	60	6.0	3	182	184	184	19992	95%	3%	3%
OLA031	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-64	53	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	45	0	-	-	0.0	-	183	182	-	19992	95%	3%	3%
OLA032	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-62	-5	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	65	66	0	-	-	0.0	-	181	181	-	19992	95%	3%	3%
OLA033	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	58	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	56	0	-	-	0.0	-	181	182	-	19992	95%	3%	3%
OLA034	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-65	-35	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	44	0	-	-	0.0	-	181	182	-	19992	95%	3%	3%
OLA035	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-62	-59	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	113	0	-62	-59	6.0	3	181	182	182	19992	95%	3%	3%
OLA036	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	85	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	116	0	-	-	0.0	-	181	182	-	19992	95%	3%	3%
OLA037	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-66	-55	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	161	0	-	-	0.0	-	181	182	-	19992	95%	3%	3%
OLA038	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	181	0	-	-	0.0	-	181	182	-	19992	95%	3%	3%
OLA039	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-66	-54	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	210	0	-	-	0.0	-	181	181	-	19992	95%	3%	3%
OLA040	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	238	0	-	-	0.0	-	181	183	-	19992	95%	3%	3%
OLA041	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-61	-47	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	36	270	0	-	-	0.0	-	181	181	-	19992	95%	3%	3%
OLA042	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-64	-49	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	294	0	-	-	0.0	-	181	182	-	19992	95%	3%	3%
OLA043	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	37	292	0	-	-	0.0	-	181	183	-	19992	95%	3%	3%
OLA044	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-68	-52	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	345	0	-	-	0.0	-	181	182	-	19992	95%	3%	3%
OLA045	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-77	-61	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	388	0	-	-	0.0	-	181	183	-	19992	95%	3%	3%
OLA046	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	384	0	-	-	0.0	-	181	185	-	19992	95%	3%	3%
OLA047	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	-74	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	456	0	-88	-74	6.0	11	181	183	183	19992	95%	3%	3%
OLA048	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	74	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	533	0	-	-	0.0	-	181	184	-	19992	95%	3%	3%
OLA049	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	68	82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	566	0	-	-	0.0	-	181	184	-	19992	95%	3%	3%
OLA050	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	534	0	-	-	0.0	-	181	185	-	19992	95%	3%	3%
OLA051	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	65	77	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	612	0	65	77	2.0	11	181	184	185	19992	95%	3%	3%
OLA052	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	589	0	-	-	0.0	-	181	185	-	19992	95%	3%	3%
OLA053	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	59	70	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	662	0	59	70	2.0	19	181	184	185	19992	95%	3%	3%
OLA054	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	51	61	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	701	0	51	61	2.0	12	181	184	186	19992	95%	3%	3%
OLA055	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	36	648	0	-	-	0.0	-	181	185	-	19992	95%	3%	3%
OLA056	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	52	61	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	744	0	52	61	2.0	13	181	185	186	19992	95%	3%	3%
OLA057	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	37	694	0	-	-	0.0	-	181	185	-	19992	95%	3%	3%

OLA058	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	54	62	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	32	787	0	54	62	2.0	10	181	185	186	19992	95%	3%	3%
OLA059	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	751	0	-	-	0.0	-	181	185	-	19992	95%	3%	3%
OLA060	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	56	64	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	37	835	0	56	64	1.8	15	181	186	186	19992	95%	3%	3%
OLA061	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	35	817	0	-	-	0.0	-	181	184	-	19992	95%	3%	3%
OLA062	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	59	65	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	30	879	0	59	65	1.8	7	181	186	185	19992	95%	3%	3%
OLA063	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	17	882	0	-	-	0.0	-	181	185	-	19992	95%	3%	3%
OLA064	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	60	66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	52	933	0	60	66	1.8	6	181	186	185	19992	95%	3%	3%
OLA065	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	950	0	-	-	0.0	-	181	183	-	19992	95%	3%	3%
OLA066	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	995	0	-	-	0.0	-	181	183	-	19992	95%	3%	3%
OLA067	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	65	69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	1094	0	65	69	1.8	14	181	181	182	19992	95%	3%	3%
OLA068	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	1076	0	-	-	0.0	-	181	180	-	19992	95%	3%	3%
OLA069	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	66	70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	59	1162	0	66	70	1.8	31	181	181	180	19992	95%	3%	3%
OLA070	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	68	71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	1201	0	68	71	1.8	17	181	179	178	19992	95%	3%	3%
OLA071	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	1165	0	-	-	0.0	-	181	178	-	19992	95%	3%	3%
OLA072	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	1228	0	-	-	0.0	-	181	177	-	19992	95%	3%	3%
OLA073	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	69	72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	1279	0	69	72	1.9	10	181	177	177	19992	95%	3%	3%
OLA074	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	1302	0	-	-	0.0	-	181	176	-	19992	95%	3%	3%
OLA075	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	70	73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	68	1376	0	-	-	0.0	-	181	175	-	19992	95%	3%	3%
OLA076	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	64	67	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	78	1435	0	-	-	0.0	-	181	175	-	19992	95%	3%	3%
OLA077	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	1567	0	-	-	0.0	-	181	174	-	19992	95%	3%	3%
OLA078	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	64	65	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	72	1624	0	-	-	0.0	-	181	172	-	19992	95%	3%	3%
OLA079	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	36	1639	0	-	-	0.0	-	181	175	-	19992	95%	3%	3%
OLA080	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	77	78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	31	1671	0	-	-	0.0	-	181	174	-	19992	95%	3%	3%
OLA081	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	1681	0	-	-	0.0	-	181	175	-	19992	95%	3%	3%
OLA082	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	79	80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	2030	0	-	-	0.0	-	181	181	-	19992	95%	3%	3%
OLA083	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	76	77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	2073	0	76	77	2.0	13	181	182	182	19992	95%	3%	3%
OLA084	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	71	71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	2126	0	71	71	1.6	18	181	183	182	19992	95%	3%	3%
OLA085	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	54	54	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	34	2220	0	54	54	2.6	8	181	182	181	19992	95%	3%	3%
OLA086	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	77	3471	0	89	89	2.0	19	181	193	194	19992	95%	3%	3%
OLA087	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	3509	0	89	89	2.0	55	181	194	194	19992	95%	3%	3%
OLA088	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	84	3534	0	89	89	6.0	21	181	194	194	19992	95%	3%	3%
OLA089	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	88	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	3761	0	-	-	0.0	-	181	205	-	19992	95%	3%	3%
OLA090	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	88	88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	81	3787	0	-	-	0.0	-	181	205	-	19992	95%	3%	3%
OLA091	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	4163	0	-	-	0.0	-	181	203	-	19992	95%	3%	3%
OLA092	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	4309	0	-	-	0.0	-	181	203	-	19992	95%	3%	3%
OLA093	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	4407	0	89	89	1.7	17	181	202	201	19992	95%	3%	3%
OLA094	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	76	76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	4579	0	-	-	0.0	-	181	202	-	19992	95%	3%	3%
OLA095	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	68	68	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	73	4650	0	-	-	0.0	-	181	202	-	19992	95%	3%	3%
OLA096	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	91	4639	0	-	-	0.0	-	181	202	-	19992	95%	3%	3%
OLA097	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	60	60	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	33	4700	0	60	60	1.8	5	181	202	201	19992	95%	3%	3%
OLA098	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	59	59	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	4745	0	59	59	1.8	4	181	202	202	19992	95%	3%	3%
OLA099	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	59	59	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	47	4867	0	-	-	0.0	-	181	201	-	19992	95%	3%	3%
OLA100	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	5273	0	-	-	0.0	-	181	202	-	19992	95%	3%	3%
OLA101	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	5340	0	-	-	0.0	-	181	201	-	19992	95%	3%	3%
OLA102	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	69	5526	0	-	-	0.0	-	181	198	-	19992	95%	3%	3%
OLA103	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	62	5695	0	-	-	0.0	-	181	197	-	19992	95%	3%	3%
OLA104	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-78	-78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	91	5894	0	-	-	0.0	-	181	196	-	19992	95%	3%	3%

Start of Construction - 2023 S02_SBb Kennedy Road 16th Avenue Highway 7

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	174	2193	0	-90	-87	2.0	7	181	209	209	19992	95%	3%	3%
OLA002	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	57	2125	0	-	-	0.0	-	181	207	-	19992	95%	3%	3%
OLA003	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	82	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	33	2107	0	82	88	2.0	4	181	207	206	19992	95%	3%	3%
OLA004	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	55	2014	0	-	-	0.0	-	181	207	-	19992	95%	3%	3%
OLA005	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	82	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	1971	0	82	88	2.2	5	181	208	207	19992	95%	3%	3%
OLA006	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	1935	0	-	-	0.0	-	181	207	-	19992	95%	3%	3%
OLA007	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	1940	0	81	87	2.1	5	181	208	207	19992	95%	3%	3%
OLA008	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	1863	0	-	-	0.0	-	181	207	-	19992	95%	3%	3%
OLA009	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	82	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	22	1863	0	82	88	2.1	5	181	207	207	19992	95%	3%	3%
OLA010	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	49	1762	0	-	-	0.0	-	181	206	-	19992	95%	3%	3%
OLA011	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	80	86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	1772	0	-	-	0.0	-	181	206	-	19992	95%	3%	3%
OLA012	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	1674	0	-	-	0.0	-	181	204	-	19992	95%	3%	3%
OLA013	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	56	1615	0	-	-	0.0	-	181	204	-	19992	95%	3%	3%
OLA014	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	19	1603	0	81	88	2.0	4	181	203	203	19992	95%	3%	3%
OLA015	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	24	1525	0	81	89	2.0	6	181	202	202	19992	95%	3%	3%
OLA016	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	80	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	65	1482	0	-	-	0.0	-	181	200	-	19992	95%	3%	3%
OLA017	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	38	1236	0	-90	-89	1.9	7	181	196	196	19992	95%	3%	3%
OLA018	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	1201	0	-90	-89	1.9	2	181	196	196	19992	95%	3%	3%
OLA019	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	1161	0	-	-	0.0	-	181	197	-	19992	95%	3%	3%
OLA020	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	1066	0	-90	-88	2.0	8	181	197	197	19992	95%	3%	3%
OLA021	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	69	1022	0	-	-	0.0	-	181	200	-	19992	95%	3%	3%
OLA022	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	874	0	-90	-85	9.0	3	181	200	200	19992	95%	3%	3%
OLA023	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	73	84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	73	849	0	-	-	0.0	-	181	199	-	19992	95%	3%	3%
OLA024	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	74	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	663	0	-	-	0.0	-	181	193	-	19992	95%	3%	3%
OLA025	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	37	596	0	-90	-86	1.8	5	181	191	192	19992	95%	3%	3%
OLA026	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	52	68	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	53	217	0	55	68	6.0	3	181	183	183	19992	95%	3%	3%
OLA027	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	49	160	0	-90	-84	2.5	26	181	185	184	19992	95%	3%	3%
OLA028	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	51	66	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	137	0	-	-	0.0	-	181	182	-	19992	95%	3%	3%
OLA029	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-66	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	55	104	0	-	-	0.0	-	181	185	-	19992	95%	3%	3%
OLA030	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-47	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	51	67	0	-	-	0.0	-	181	184	-	19992	95%	3%	3%
OLA031	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	53	57	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	78	0	-	-	0.0	-	181	182	-	19992	95%	3%	3%
OLA032	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-5	53	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	65	65	0	-	-	0.0	-	181	181	-	19992	95%	3%	3%
OLA033	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	58	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	35	0	-	-	0.0	-	181	182	-	19992	95%	3%	3%
OLA034	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-35	61	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	35	0	30	61	6.0	3	181	182	182	19992	95%	3%	3%
OLA035	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-62	65	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	38	0	-62	-15	6.0	3	181	182	182	19992	95%	3%	3%
OLA036	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	34	0	-	-	0.0	-	181	182	-	19992	95%	3%	3%
OLA037	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-66	69	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	32	0	-	-	0.0	-	181	182	-	19992	95%	3%	3%
OLA038	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-85	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	34	0	-	-	0.0	-	182	182	-	19992	95%	3%	3%
OLA039	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-66	66	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	35	0	-	-	0.0	-	182	181	-	19992	95%	3%	3%
OLA040	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-70	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	34	0	-	-	0.0	-	182	183	-	19992	95%	3%	3%
OLA041	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-61	63	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	36	36	0	-	-	0.0	-	182	181	-	19992	95%	3%	3%
OLA042	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-64	52	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	32	0	35	52	6.0	3	182	182	182	19992	95%	3%	3%
OLA043	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-26	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	37	37	0	-26	-3	1.8	12	182	183	182	19992	95%	3%	3%
OLA044	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-68	-28	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	34	0	-44	-28	1.8	9	182	182	182	19992	95%	3%	3%
OLA045	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-77	-69	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	69	0	-	-	0.0	-	182	183	-	19992	95%	3%	3%
OLA046	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	58	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	83	0	-	-	0.0	-	182	185	-	19992	95%	3%	3%
OLA047	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	-85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	137	0	-88	-85	6.0	11	182	183	183	19992	95%	3%	3%
OLA048	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	64	74	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	219	0	-	-	0.0	-	182	184	-	19992	95%	3%	3%
OLA049	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	60	68	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	250	0	-	-	0.0	-	182	184	-	19992	95%	3%	3%
OLA050	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	215	0	-	-	0.0	-	182	185	-	19992	95%	3%	3%
OLA051	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	62	65	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	293	0	62	65	2.0	11	182	184	185	19992	95%	3%	3%
OLA052	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	271	0	-	-	0.0	-	182	185	-	19992	95%	3%	3%
OLA053	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	58	59	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	342	0	58	59	2.0	19	182	184	185	19992	95%	3%	3%
OLA054	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	51	53	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	382	0	51	53	2.0	12	182	184	186	19992	95%	3%	3%
OLA055	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	36	332	0	-	-	0.0	-	182	185	-	19992	95%	3%	3%
OLA056	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	52	55	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	426	0	52	55	2.0	13	182	185	186	19992	95%	3%	3%
OLA057	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	37	381	0	-	-	0.0	-	182	185	-	19992	95%	3%	3%

OLA058	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	54	59	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	32	471	0	54	59	2.0	10	182	185	186	19992	95%	3%	3%
OLA059	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	442	0	-	-	0.0	-	182	185	-	19992	95%	3%	3%
OLA060	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	56	62	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	37	522	0	56	62	1.8	15	182	186	186	19992	95%	3%	3%
OLA061	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	35	513	0	-	-	0.0	-	182	184	-	19992	95%	3%	3%
OLA062	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	59	65	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	30	569	0	59	65	1.8	7	182	186	185	19992	95%	3%	3%
OLA063	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	17	580	0	-	-	0.0	-	182	185	-	19992	95%	3%	3%
OLA064	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	60	66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	52	624	0	60	66	1.8	6	182	186	185	19992	95%	3%	3%
OLA065	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	652	0	-	-	0.0	-	182	183	-	19992	95%	3%	3%
OLA066	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	702	0	-	-	0.0	-	182	183	-	19992	95%	3%	3%
OLA067	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	65	71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	792	0	65	71	1.8	14	182	181	182	19992	95%	3%	3%
OLA068	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	786	0	-	-	0.0	-	182	180	-	19992	95%	3%	3%
OLA069	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	66	73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	59	864	0	66	73	1.8	31	182	181	180	19992	95%	3%	3%
OLA070	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	68	75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	906	0	68	75	1.8	17	182	179	178	19992	95%	3%	3%
OLA071	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	878	0	-	-	0.0	-	182	178	-	19992	95%	3%	3%
OLA072	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	944	0	-	-	0.0	-	182	177	-	19992	95%	3%	3%
OLA073	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	69	76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	988	0	69	76	1.9	10	182	177	177	19992	95%	3%	3%
OLA074	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	1023	0	-	-	0.0	-	182	176	-	19992	95%	3%	3%
OLA075	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	70	76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	68	1085	0	-	-	0.0	-	182	175	-	19992	95%	3%	3%
OLA076	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	64	71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	78	1148	0	-	-	0.0	-	182	175	-	19992	95%	3%	3%
OLA077	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	1306	0	-	-	0.0	-	182	174	-	19992	95%	3%	3%
OLA078	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	64	70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	72	1352	0	-	-	0.0	-	182	172	-	19992	95%	3%	3%
OLA079	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	36	1382	0	-	-	0.0	-	182	175	-	19992	95%	3%	3%
OLA080	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	77	83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	31	1406	0	-	-	0.0	-	182	174	-	19992	95%	3%	3%
OLA081	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	1427	0	-	-	0.0	-	182	175	-	19992	95%	3%	3%
OLA082	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	79	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	1767	0	-	-	0.0	-	182	181	-	19992	95%	3%	3%
OLA083	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	76	82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	1812	0	76	82	2.0	13	182	182	182	19992	95%	3%	3%
OLA084	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	71	76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	1866	0	71	76	1.6	18	182	183	182	19992	95%	3%	3%
OLA085	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	54	59	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	34	1965	0	54	59	2.6	8	182	182	181	19992	95%	3%	3%
OLA086	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	77	3260	0	89	90	2.0	19	182	193	194	19992	95%	3%	3%
OLA087	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	3299	0	89	90	2.0	55	182	194	194	19992	95%	3%	3%
OLA088	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	84	3323	0	89	90	6.0	21	182	194	194	19992	95%	3%	3%
OLA089	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	3552	0	-	-	0.0	-	182	205	-	19992	95%	3%	3%
OLA090	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	88	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	81	3575	0	-	-	0.0	-	182	205	-	19992	95%	3%	3%
OLA091	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	3953	0	-	-	0.0	-	182	203	-	19992	95%	3%	3%
OLA092	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	4099	0	-	-	0.0	-	182	203	-	19992	95%	3%	3%
OLA093	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	4197	0	89	90	1.7	17	182	202	201	19992	95%	3%	3%
OLA094	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	76	79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	4369	0	-	-	0.0	-	182	202	-	19992	95%	3%	3%
OLA095	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	68	71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	73	4439	0	-	-	0.0	-	182	202	-	19992	95%	3%	3%
OLA096	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	91	4439	0	-	-	0.0	-	182	202	-	19992	95%	3%	3%
OLA097	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	60	63	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	33	4494	0	60	63	1.8	5	182	202	201	19992	95%	3%	3%
OLA098	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	59	62	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	4538	0	59	62	1.8	4	182	202	202	19992	95%	3%	3%
OLA099	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	59	62	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	47	4665	0	-	-	0.0	-	182	201	-	19992	95%	3%	3%
OLA100	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	5086	0	-	-	0.0	-	182	202	-	19992	95%	3%	3%
OLA101	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	5154	0	-	-	0.0	-	182	201	-	19992	95%	3%	3%
OLA102	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	69	5345	0	-	-	0.0	-	182	198	-	19992	95%	3%	3%
OLA103	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	-84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	62	5516	0	-	-	0.0	-	182	197	-	19992	95%	3%	3%
OLA104	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-78	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	91	5714	0	-	-	0.0	-	182	196	-	19992	95%	3%	3%

Start of Construction - 2023 S02_SBc Kennedy Road 16th Avenue Highway 7

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	174	2405	0	-	-	0.0	-	182	209	-	19992	95%	3%	3%
OLA002	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	57	2349	0	-	-	0.0	-	182	207	-	19992	95%	3%	3%
OLA003	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	78	82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	33	2340	0	78	82	2.0	4	182	207	206	19992	95%	3%	3%
OLA004	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	77	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	55	2250	0	-	-	0.0	-	182	207	-	19992	95%	3%	3%
OLA005	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	78	82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	2205	0	78	82	2.2	5	182	208	207	19992	95%	3%	3%
OLA006	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	2161	0	-	-	0.0	-	182	207	-	19992	95%	3%	3%
OLA007	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	77	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	2174	0	77	81	2.1	5	182	208	207	19992	95%	3%	3%
OLA008	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	2091	0	-	-	0.0	-	182	207	-	19992	95%	3%	3%
OLA009	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	77	82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	22	2098	0	77	82	2.1	5	182	207	207	19992	95%	3%	3%
OLA010	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	49	1989	0	-	-	0.0	-	182	206	-	19992	95%	3%	3%
OLA011	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	75	80	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	2011	0	-	-	0.0	-	182	206	-	19992	95%	3%	3%
OLA012	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	1902	0	-	-	0.0	-	182	204	-	19992	95%	3%	3%
OLA013	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	56	1842	0	-	-	0.0	-	182	204	-	19992	95%	3%	3%
OLA014	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	76	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	19	1840	0	76	81	2.0	4	182	203	203	19992	95%	3%	3%
OLA015	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	77	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	24	1763	0	77	81	2.0	6	182	202	202	19992	95%	3%	3%
OLA016	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	75	80	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	65	1727	0	-	-	0.0	-	182	200	-	19992	95%	3%	3%
OLA017	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	38	1469	0	-	-	0.0	-	182	196	-	19992	95%	3%	3%
OLA018	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	1433	0	-	-	0.0	-	182	196	-	19992	95%	3%	3%
OLA019	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	1390	0	-	-	0.0	-	182	197	-	19992	95%	3%	3%
OLA020	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	1300	0	-	-	0.0	-	182	197	-	19992	95%	3%	3%
OLA021	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	69	1250	0	-	-	0.0	-	182	200	-	19992	95%	3%	3%
OLA022	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	1109	0	-	-	0.0	-	182	200	-	19992	95%	3%	3%
OLA023	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	67	73	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	73	1109	0	-	-	0.0	-	182	199	-	19992	95%	3%	3%
OLA024	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	68	74	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	924	0	-	-	0.0	-	182	193	-	19992	95%	3%	3%
OLA025	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	37	840	0	-	-	0.0	-	182	191	-	19992	95%	3%	3%
OLA026	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	48	52	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	53	524	0	-	-	0.0	-	182	183	-	19992	95%	3%	3%
OLA027	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	49	432	0	-	-	0.0	-	182	185	-	19992	95%	3%	3%
OLA028	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	48	51	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	450	0	-	-	0.0	-	182	182	-	19992	95%	3%	3%
OLA029	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	55	377	0	-	-	0.0	-	182	185	-	19992	95%	3%	3%
OLA030	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	51	340	0	-	-	0.0	-	182	184	-	19992	95%	3%	3%
OLA031	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	57	57	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	398	0	-	-	0.0	-	182	182	-	19992	95%	3%	3%
OLA032	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	53	57	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	65	349	0	-	-	0.0	-	182	181	-	19992	95%	3%	3%
OLA033	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	266	0	-	-	0.0	-	182	182	-	19992	95%	3%	3%
OLA034	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	61	64	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	312	0	61	64	6.0	3	182	182	182	19992	95%	3%	3%
OLA035	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	65	73	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	240	0	-	-	0.0	-	182	182	-	19992	95%	3%	3%
OLA036	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	204	0	-	-	0.0	-	182	182	-	19992	95%	3%	3%
OLA037	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	69	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	186	0	-	-	0.0	-	182	182	-	19992	95%	3%	3%
OLA038	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-85	-85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	140	0	-	-	0.0	-	182	182	-	19992	95%	3%	3%
OLA039	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	66	85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	139	0	-	-	0.0	-	182	181	-	19992	95%	3%	3%
OLA040	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-75	-70	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	83	0	-	-	0.0	-	182	183	-	19992	95%	3%	3%
OLA041	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	63	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	36	79	0	-	-	0.0	-	182	181	-	19992	95%	3%	3%
OLA042	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	52	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	52	0	52	90	6.0	3	182	182	182	19992	95%	3%	3%
OLA043	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-66	-26	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	37	41	0	-45	-26	1.8	12	182	183	182	19992	95%	3%	3%
OLA044	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-28	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	30	0	-28	5	1.8	9	182	182	182	19992	95%	3%	3%
OLA045	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-69	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	30	0	-	-	0.0	-	183	183	-	19992	95%	3%	3%
OLA046	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-64	58	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	39	0	-64	-45	6.0	3	183	185	185	19992	95%	3%	3%
OLA047	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-85	84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	38	0	-85	-40	6.0	11	183	183	183	19992	95%	3%	3%
OLA048	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-52	64	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	42	0	-52	-18	2.0	10	184	184	184	19992	95%	3%	3%
OLA049	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-36	60	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	48	0	-36	59	2.0	25	184	184	185	19992	95%	3%	3%
OLA050	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	60	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	26	0	-	-	0.0	-	184	185	-	19992	95%	3%	3%
OLA051	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	27	62	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	37	0	27	62	2.0	11	184	184	185	19992	95%	3%	3%
OLA052	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-31	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	36	0	-	-	0.0	-	184	185	-	19992	95%	3%	3%
OLA053	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	55	58	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	79	0	55	58	2.0	19	184	184	185	19992	95%	3%	3%
OLA054	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	53	63	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	122	0	53	63	2.0	12	184	184	186	19992	95%	3%	3%
OLA055	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	36	96	0	-	-	0.0	-	184	185	-	19992	95%	3%	3%
OLA056	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	55	69	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	172	0	55	69	2.0	13	184	185	186	19992	95%	3%	3%
OLA057	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	37	151	0	-	-	0.0	-	184	185	-	19992	95%	3%	3%

OLA058	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	59	75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	32	223	0	59	75	2.0	10	184	185	186	19992	95%	3%	3%
OLA059	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	216	0	-	-	0.0	-	184	185	-	19992	95%	3%	3%
OLA060	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	62	77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	37	278	0	62	77	1.8	15	184	186	186	19992	95%	3%	3%
OLA061	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	35	293	0	-	-	0.0	-	184	184	-	19992	95%	3%	3%
OLA062	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	65	80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	30	332	0	65	80	1.8	7	184	186	185	19992	95%	3%	3%
OLA063	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	17	358	0	-	-	0.0	-	184	185	-	19992	95%	3%	3%
OLA064	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	66	79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	52	385	0	66	79	1.8	6	184	186	185	19992	95%	3%	3%
OLA065	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	436	0	-	-	0.0	-	184	183	-	19992	95%	3%	3%
OLA066	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	490	0	-	-	0.0	-	184	183	-	19992	95%	3%	3%
OLA067	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	71	82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	563	0	71	82	1.8	14	184	181	182	19992	95%	3%	3%
OLA068	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	576	0	-90	-89	6.0	3	184	180	180	19992	95%	3%	3%
OLA069	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	73	83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	59	637	0	73	83	1.8	31	184	181	180	19992	95%	3%	3%
OLA070	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	75	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	683	0	75	85	1.8	17	184	179	178	19992	95%	3%	3%
OLA071	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	669	0	-	-	0.0	-	184	178	-	19992	95%	3%	3%
OLA072	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	737	0	-	-	0.0	-	184	177	-	19992	95%	3%	3%
OLA073	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	76	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	768	0	76	85	1.9	10	184	177	177	19992	95%	3%	3%
OLA074	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	819	0	-	-	0.0	-	184	176	-	19992	95%	3%	3%
OLA075	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	76	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	68	865	0	-	-	0.0	-	184	175	-	19992	95%	3%	3%
OLA076	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	71	79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	78	930	0	-	-	0.0	-	184	175	-	19992	95%	3%	3%
OLA077	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	1117	0	-	-	0.0	-	184	174	-	19992	95%	3%	3%
OLA078	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	70	78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	72	1151	0	-	-	0.0	-	184	172	-	19992	95%	3%	3%
OLA079	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	36	1197	0	-90	-86	6.0	3	184	175	175	19992	95%	3%	3%
OLA080	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	83	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	31	1211	0	-	-	0.0	-	184	174	-	19992	95%	3%	3%
OLA081	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	1244	0	-	-	0.0	-	184	175	-	19992	95%	3%	3%
OLA082	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	85	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	1571	0	-	-	0.0	-	184	181	-	19992	95%	3%	3%
OLA083	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	82	88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	1617	0	82	88	2.0	13	184	182	182	19992	95%	3%	3%
OLA084	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	76	82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	1672	0	76	82	1.6	18	184	183	182	19992	95%	3%	3%
OLA085	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	59	65	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	34	1776	0	59	65	2.6	8	184	182	181	19992	95%	3%	3%
OLA086	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	77	3104	0	-	-	0.0	-	184	193	-	19992	95%	3%	3%
OLA087	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	3144	0	-	-	0.0	-	184	194	-	19992	95%	3%	3%
OLA088	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	84	3166	0	-	-	0.0	-	184	194	-	19992	95%	3%	3%
OLA089	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	3396	0	-	-	0.0	-	184	205	-	19992	95%	3%	3%
OLA090	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	81	3417	0	-	-	0.0	-	184	205	-	19992	95%	3%	3%
OLA091	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	3795	0	-	-	0.0	-	184	203	-	19992	95%	3%	3%
OLA092	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	3941	0	-	-	0.0	-	184	203	-	19992	95%	3%	3%
OLA093	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	4038	0	-	-	0.0	-	184	202	-	19992	95%	3%	3%
OLA094	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	79	82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	4210	0	-	-	0.0	-	184	202	-	19992	95%	3%	3%
OLA095	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	71	74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	73	4281	0	-	-	0.0	-	184	202	-	19992	95%	3%	3%
OLA096	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	91	4288	0	-	-	0.0	-	184	202	-	19992	95%	3%	3%
OLA097	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	63	66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	33	4338	0	63	66	1.8	5	184	202	201	19992	95%	3%	3%
OLA098	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	62	65	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	4382	0	62	65	1.8	4	184	202	202	19992	95%	3%	3%
OLA099	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	62	65	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	47	4513	0	-	-	0.0	-	184	201	-	19992	95%	3%	3%
OLA100	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	4946	0	-	-	0.0	-	184	202	-	19992	95%	3%	3%
OLA101	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	5016	0	-	-	0.0	-	184	201	-	19992	95%	3%	3%
OLA102	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	69	5211	0	-	-	0.0	-	184	198	-	19992	95%	3%	3%
OLA103	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-84	-81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	62	5381	0	-	-	0.0	-	184	197	-	19992	95%	3%	3%
OLA104	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	91	5579	0	-	-	0.0	-	184	196	-	19992	95%	3%	3%

Start of Construction - 2023 S02_SBd Kennedy Road 16th Avenue Highway 7

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	174	2593	0	-	-	0.0	-	184	209	-	19992	95%	3%	3%
OLA002	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	57	2545	0	-	-	0.0	-	184	207	-	19992	95%	3%	3%
OLA003	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	78	79	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	33	2543	0	78	79	2.0	4	184	207	206	19992	95%	3%	3%
OLA004	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	77	78	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	55	2456	0	-	-	0.0	-	184	207	-	19992	95%	3%	3%
OLA005	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	78	79	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	2409	0	78	79	2.2	5	184	208	207	19992	95%	3%	3%
OLA006	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	2361	0	-	-	0.0	-	184	207	-	19992	95%	3%	3%
OLA007	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	77	78	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	2379	0	77	78	2.1	5	184	208	207	19992	95%	3%	3%
OLA008	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	2292	0	-	-	0.0	-	184	207	-	19992	95%	3%	3%
OLA009	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	77	79	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	22	2303	0	77	79	2.1	5	184	207	207	19992	95%	3%	3%
OLA010	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	49	2191	0	-	-	0.0	-	184	206	-	19992	95%	3%	3%
OLA011	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	75	77	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	2221	0	-	-	0.0	-	184	206	-	19992	95%	3%	3%
OLA012	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	2105	0	-	-	0.0	-	184	204	-	19992	95%	3%	3%
OLA013	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	56	2045	0	-	-	0.0	-	184	204	-	19992	95%	3%	3%
OLA014	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	76	78	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	19	2050	0	76	78	2.0	4	184	203	203	19992	95%	3%	3%
OLA015	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	77	79	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	24	1974	0	77	79	2.0	6	184	202	202	19992	95%	3%	3%
OLA016	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	75	78	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	65	1941	0	-	-	0.0	-	184	200	-	19992	95%	3%	3%
OLA017	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	38	1679	0	-	-	0.0	-	184	196	-	19992	95%	3%	3%
OLA018	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	1644	0	-	-	0.0	-	184	196	-	19992	95%	3%	3%
OLA019	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	1600	0	-	-	0.0	-	184	197	-	19992	95%	3%	3%
OLA020	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	1514	0	-	-	0.0	-	184	197	-	19992	95%	3%	3%
OLA021	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	69	1462	0	-	-	0.0	-	184	200	-	19992	95%	3%	3%
OLA022	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	1326	0	-	-	0.0	-	184	200	-	19992	95%	3%	3%
OLA023	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	67	73	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	73	1340	0	-	-	0.0	-	184	199	-	19992	95%	3%	3%
OLA024	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	68	75	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	1158	0	-	-	0.0	-	184	193	-	19992	95%	3%	3%
OLA025	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	37	1069	0	-	-	0.0	-	184	191	-	19992	95%	3%	3%
OLA026	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	48	66	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	53	783	0	55	66	6.0	3	184	183	183	19992	95%	3%	3%
OLA027	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	49	686	0	-	-	0.0	-	184	185	-	19992	95%	3%	3%
OLA028	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	48	68	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	711	0	-	-	0.0	-	184	182	-	19992	95%	3%	3%
OLA029	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	55	634	0	-	-	0.0	-	184	185	-	19992	95%	3%	3%
OLA030	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	51	599	0	-	-	0.0	-	184	184	-	19992	95%	3%	3%
OLA031	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	57	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	660	0	-	-	0.0	-	184	182	-	19992	95%	3%	3%
OLA032	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	57	85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	65	610	0	-	-	0.0	-	184	181	-	19992	95%	3%	3%
OLA033	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-80	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	529	0	-	-	0.0	-	184	182	-	19992	95%	3%	3%
OLA034	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	64	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	574	0	64	90	6.0	3	184	182	182	19992	95%	3%	3%
OLA035	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	73	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	498	0	-	-	0.0	-	184	182	-	19992	95%	3%	3%
OLA036	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-68	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	467	0	-	-	0.0	-	184	182	-	19992	95%	3%	3%
OLA037	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	442	0	-	-	0.0	-	184	182	-	19992	95%	3%	3%
OLA038	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-85	-57	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	402	0	-	-	0.0	-	184	182	-	19992	95%	3%	3%
OLA039	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	85	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	390	0	-	-	0.0	-	184	181	-	19992	95%	3%	3%
OLA040	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-75	-47	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	345	0	-	-	0.0	-	184	183	-	19992	95%	3%	3%
OLA041	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	36	325	0	-	-	0.0	-	184	181	-	19992	95%	3%	3%
OLA042	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	296	0	-	-	0.0	-	184	182	-	19992	95%	3%	3%
OLA043	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-66	-39	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	37	294	0	-45	-39	1.8	12	184	183	182	19992	95%	3%	3%
OLA044	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	240	0	-	-	0.0	-	184	182	-	19992	95%	3%	3%
OLA045	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	195	0	-	-	0.0	-	184	183	-	19992	95%	3%	3%
OLA046	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-64	-43	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	210	0	-64	-45	6.0	3	184	185	185	19992	95%	3%	3%
OLA047	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	84	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	127	0	-	-	0.0	-	184	183	-	19992	95%	3%	3%
OLA048	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-58	-52	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	79	0	-58	-52	2.0	10	184	184	184	19992	95%	3%	3%
OLA049	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-63	-36	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	60	0	-63	-36	2.0	25	184	184	185	19992	95%	3%	3%
OLA050	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	60	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	50	0	-	-	0.0	-	184	185	-	19992	95%	3%	3%
OLA051	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-69	27	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	33	0	-69	27	2.0	11	184	184	185	19992	95%	3%	3%
OLA052	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-31	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	31	0	-	-	0.0	-	184	185	-	19992	95%	3%	3%
OLA053	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-75	55	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	41	0	-75	55	2.0	19	185	184	185	19992	95%	3%	3%
OLA054	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	63	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	35	0	-86	63	2.0	12	185	184	186	19992	95%	3%	3%
OLA055	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-81	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	36	36	0	-	-	0.0	-	185	185	-	19992	95%	3%	3%
OLA056	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	69	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	35	0	-88	69	2.0	13	185	185	186	19992	95%	3%	3%
OLA057	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	37	37	0	-	-	0.0	-	185	185	-	19992	95%	3%	3%

OLA058	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	32	32	0	-87	75	2.0	10	185	185	186	19992	95%	3%	3%
OLA059	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-88	87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	33	0	-	-	0.0	-	185	185	-	19992	95%	3%	3%
OLA060	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	37	37	0	-86	77	1.8	15	185	186	186	19992	95%	3%	3%
OLA061	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-88	86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	35	35	0	-	-	0.0	-	185	184	-	19992	95%	3%	3%
OLA062	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	30	30	0	-87	80	1.8	7	185	186	185	19992	95%	3%	3%
OLA063	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	17	17	0	-	-	0.0	-	185	185	-	19992	95%	3%	3%
OLA064	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-83	79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	52	52	0	-83	79	1.8	6	184	186	185	19992	95%	3%	3%
OLA065	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	22	0	-	-	0.0	-	184	183	-	19992	95%	3%	3%
OLA066	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	33	0	25	84	6.0	3	183	183	183	19992	95%	3%	3%
OLA067	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	58	0	-77	82	1.8	14	182	181	182	19992	95%	3%	3%
OLA068	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	29	0	-89	-35	6.0	3	181	180	180	19992	95%	3%	3%
OLA069	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	59	59	0	-73	83	1.8	31	179	181	180	19992	95%	3%	3%
OLA070	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	45	0	-73	85	1.8	17	178	179	178	19992	95%	3%	3%
OLA071	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	28	0	-	-	0.0	-	178	178	-	19992	95%	3%	3%
OLA072	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	31	0	-	-	0.0	-	176	177	-	19992	95%	3%	3%
OLA073	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-56	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	42	0	-56	85	1.9	10	176	177	177	19992	95%	3%	3%
OLA074	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	13	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	42	0	-	-	0.0	-	176	176	-	19992	95%	3%	3%
OLA075	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	26	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	68	71	0	-	-	0.0	-	176	175	-	19992	95%	3%	3%
OLA076	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	53	79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	78	112	0	-	-	0.0	-	176	175	-	19992	95%	3%	3%
OLA077	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	309	0	-	-	0.0	-	176	174	-	19992	95%	3%	3%
OLA078	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	78	84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	72	323	0	-	-	0.0	-	176	172	-	19992	95%	3%	3%
OLA079	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	36	390	0	-86	-70	6.0	3	176	175	175	19992	95%	3%	3%
OLA080	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	31	389	0	-	-	0.0	-	176	174	-	19992	95%	3%	3%
OLA081	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-83	-67	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	440	0	-	-	0.0	-	176	175	-	19992	95%	3%	3%
OLA082	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	742	0	-	-	0.0	-	176	181	-	19992	95%	3%	3%
OLA083	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	88	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	789	0	88	90	2.0	13	176	182	182	19992	95%	3%	3%
OLA084	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	82	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	844	0	82	85	1.6	18	176	183	182	19992	95%	3%	3%
OLA085	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	65	69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	34	951	0	65	69	2.6	8	176	182	181	19992	95%	3%	3%
OLA086	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	77	2306	0	-	-	0.0	-	176	193	-	19992	95%	3%	3%
OLA087	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	2347	0	-	-	0.0	-	176	194	-	19992	95%	3%	3%
OLA088	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	84	2367	0	-	-	0.0	-	176	194	-	19992	95%	3%	3%
OLA089	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	2596	0	-	-	0.0	-	176	205	-	19992	95%	3%	3%
OLA090	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	81	2614	0	-	-	0.0	-	176	205	-	19992	95%	3%	3%
OLA091	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	2991	0	-	-	0.0	-	176	203	-	19992	95%	3%	3%
OLA092	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	3137	0	-	-	0.0	-	176	203	-	19992	95%	3%	3%
OLA093	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	3233	0	-	-	0.0	-	176	202	-	19992	95%	3%	3%
OLA094	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	82	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	3404	0	-	-	0.0	-	176	202	-	19992	95%	3%	3%
OLA095	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	74	77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	73	3474	0	-	-	0.0	-	176	202	-	19992	95%	3%	3%
OLA096	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	91	3492	0	-	-	0.0	-	176	202	-	19992	95%	3%	3%
OLA097	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	66	69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	33	3535	0	66	69	1.8	5	176	202	201	19992	95%	3%	3%
OLA098	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	65	68	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	3579	0	65	68	1.8	4	176	202	202	19992	95%	3%	3%
OLA099	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	65	68	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	47	3713	0	-	-	0.0	-	176	201	-	19992	95%	3%	3%
OLA100	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	4161	0	-	-	0.0	-	176	202	-	19992	95%	3%	3%
OLA101	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	4232	0	-	-	0.0	-	176	201	-	19992	95%	3%	3%
OLA102	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	69	4433	0	-	-	0.0	-	176	198	-	19992	95%	3%	3%
OLA103	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	62	4602	0	-	-	0.0	-	176	197	-	19992	95%	3%	3%
OLA104	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	91	4798	0	-	-	0.0	-	176	196	-	19992	95%	3%	3%

Start of Construction - 2023 S02_SBe Kennedy Road 16th Avenue Highway 7

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	174	3424	0	-	-	0.0	-	176	209	-	19992	95%	3%	3%
OLA002	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	57	3376	0	-	-	0.0	-	176	207	-	19992	95%	3%	3%
OLA003	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	79	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	33	3372	0	79	81	2.0	4	176	207	206	19992	95%	3%	3%
OLA004	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	78	80	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	55	3284	0	-	-	0.0	-	176	207	-	19992	95%	3%	3%
OLA005	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	79	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	3238	0	79	81	2.2	5	176	208	207	19992	95%	3%	3%
OLA006	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	3191	0	-	-	0.0	-	176	207	-	19992	95%	3%	3%
OLA007	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	78	80	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	3208	0	78	80	2.1	5	176	208	207	19992	95%	3%	3%
OLA008	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	3121	0	-	-	0.0	-	176	207	-	19992	95%	3%	3%
OLA009	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	79	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	22	3132	0	79	81	2.1	5	176	207	207	19992	95%	3%	3%
OLA010	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	49	3020	0	-	-	0.0	-	176	206	-	19992	95%	3%	3%
OLA011	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	77	80	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	3048	0	-	-	0.0	-	176	206	-	19992	95%	3%	3%
OLA012	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	2934	0	-	-	0.0	-	176	204	-	19992	95%	3%	3%
OLA013	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	56	2874	0	-	-	0.0	-	176	204	-	19992	95%	3%	3%
OLA014	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	78	80	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	19	2876	0	78	80	2.0	4	176	203	203	19992	95%	3%	3%
OLA015	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	79	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	24	2800	0	79	81	2.0	6	176	202	202	19992	95%	3%	3%
OLA016	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	78	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	65	2765	0	-	-	0.0	-	176	200	-	19992	95%	3%	3%
OLA017	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	38	2505	0	-	-	0.0	-	176	196	-	19992	95%	3%	3%
OLA018	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	2470	0	-	-	0.0	-	176	196	-	19992	95%	3%	3%
OLA019	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	2426	0	-	-	0.0	-	176	197	-	19992	95%	3%	3%
OLA020	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	2338	0	-	-	0.0	-	176	197	-	19992	95%	3%	3%
OLA021	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	69	2287	0	-	-	0.0	-	176	200	-	19992	95%	3%	3%
OLA022	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	2148	0	-	-	0.0	-	176	200	-	19992	95%	3%	3%
OLA023	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	73	77	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	73	2151	0	-	-	0.0	-	176	199	-	19992	95%	3%	3%
OLA024	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	75	80	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	1965	0	-	-	0.0	-	176	193	-	19992	95%	3%	3%
OLA025	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	37	1882	0	-	-	0.0	-	176	191	-	19992	95%	3%	3%
OLA026	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	66	72	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	53	1543	0	66	72	6.0	3	176	183	183	19992	95%	3%	3%
OLA027	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	49	1465	0	-	-	0.0	-	176	185	-	19992	95%	3%	3%
OLA028	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	68	74	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	1463	0	-	-	0.0	-	176	182	-	19992	95%	3%	3%
OLA029	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	55	1406	0	-	-	0.0	-	176	185	-	19992	95%	3%	3%
OLA030	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	51	1366	0	-	-	0.0	-	176	184	-	19992	95%	3%	3%
OLA031	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	1395	0	-	-	0.0	-	176	182	-	19992	95%	3%	3%
OLA032	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	85	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	65	1324	0	-	-	0.0	-	176	181	-	19992	95%	3%	3%
OLA033	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-80	-73	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	1283	0	-	-	0.0	-	176	182	-	19992	95%	3%	3%
OLA034	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	1299	0	-	-	0.0	-	176	182	-	19992	95%	3%	3%
OLA035	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	1217	0	-	-	0.0	-	176	182	-	19992	95%	3%	3%
OLA036	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-68	-61	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	1222	0	-	-	0.0	-	176	182	-	19992	95%	3%	3%
OLA037	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	1165	0	-	-	0.0	-	176	182	-	19992	95%	3%	3%
OLA038	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-57	-50	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	1163	0	-	-	0.0	-	176	182	-	19992	95%	3%	3%
OLA039	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	1117	0	-	-	0.0	-	176	181	-	19992	95%	3%	3%
OLA040	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-47	-40	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	1118	0	-	-	0.0	-	176	183	-	19992	95%	3%	3%
OLA041	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	36	1064	0	-	-	0.0	-	176	181	-	19992	95%	3%	3%
OLA042	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	1046	0	-	-	0.0	-	176	182	-	19992	95%	3%	3%
OLA043	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-39	-32	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	37	1082	0	-39	-32	1.8	12	176	183	182	19992	95%	3%	3%
OLA044	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	1009	0	-	-	0.0	-	176	182	-	19992	95%	3%	3%
OLA045	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	978	0	-	-	0.0	-	176	183	-	19992	95%	3%	3%
OLA046	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-43	-37	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	1023	0	-	-	0.0	-	176	185	-	19992	95%	3%	3%
OLA047	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	922	0	-	-	0.0	-	176	183	-	19992	95%	3%	3%
OLA048	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-58	-53	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	909	0	-58	-53	2.0	10	176	184	184	19992	95%	3%	3%
OLA049	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-63	-58	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	884	0	-63	-58	2.0	25	176	184	185	19992	95%	3%	3%
OLA050	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	860	0	-	-	0.0	-	176	185	-	19992	95%	3%	3%
OLA051	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-69	-64	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	826	0	-69	-64	2.0	11	176	184	185	19992	95%	3%	3%
OLA052	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	803	0	-	-	0.0	-	176	185	-	19992	95%	3%	3%
OLA053	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-75	-70	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	778	0	-75	-70	2.0	19	176	184	185	19992	95%	3%	3%
OLA054	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	-81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	724	0	-86	-81	2.0	12	176	184	186	19992	95%	3%	3%
OLA055	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	36	736	0	-	-	0.0	-	176	185	-	19992	95%	3%	3%
OLA056	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	-82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	671	0	-88	-82	2.0	13	176	185	186	19992	95%	3%	3%
OLA057	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	87	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	37	681	0	-	-	0.0	-	176	185	-	19992	95%	3%	3%

OLA058	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	32	616	0	-87	-82	2.0	10	176	185	186	19992	95%	3%	3%
OLA059	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	87	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	615	0	-	-	0.0	-	176	185	-	19992	95%	3%	3%
OLA060	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	-81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	37	561	0	-86	-81	1.8	15	176	186	186	19992	95%	3%	3%
OLA061	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	86	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	35	539	0	-	-	0.0	-	176	184	-	19992	95%	3%	3%
OLA062	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	30	504	0	-87	-81	1.8	7	176	186	185	19992	95%	3%	3%
OLA063	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	88	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	17	474	0	-	-	0.0	-	176	185	-	19992	95%	3%	3%
OLA064	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-83	-78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	52	456	0	-83	-78	1.8	6	176	186	185	19992	95%	3%	3%
OLA065	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	87	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	396	0	-	-	0.0	-	176	183	-	19992	95%	3%	3%
OLA066	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	84	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	343	0	84	90	6.0	3	176	183	183	19992	95%	3%	3%
OLA067	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	280	0	-77	-74	1.8	14	176	181	182	19992	95%	3%	3%
OLA068	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	84	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	257	0	-	-	0.0	-	176	180	-	19992	95%	3%	3%
OLA069	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	59	208	0	-73	-71	1.8	31	176	181	180	19992	95%	3%	3%
OLA070	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	158	0	-73	-71	1.8	17	176	179	178	19992	95%	3%	3%
OLA071	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	81	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	164	0	-	-	0.0	-	176	178	-	19992	95%	3%	3%
OLA072	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	73	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	98	0	-	-	0.0	-	176	177	-	19992	95%	3%	3%
OLA073	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-68	-56	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	79	0	-68	-56	1.9	10	176	177	177	19992	95%	3%	3%
OLA074	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	13	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	43	0	-	-	0.0	-	176	176	-	19992	95%	3%	3%
OLA075	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-57	26	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	68	68	0	-	-	0.0	-	176	175	-	19992	95%	3%	3%
OLA076	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-58	53	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	78	78	0	-	-	0.0	-	175	175	-	19992	95%	3%	3%
OLA077	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	21	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	25	0	-	-	0.0	-	172	174	-	19992	95%	3%	3%
OLA078	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	5	84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	72	72	0	5	50	6.0	3	172	172	172	19992	95%	3%	3%
OLA079	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-70	-55	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	36	78	0	-70	-55	6.0	3	172	175	175	19992	95%	3%	3%
OLA080	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	74	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	31	85	0	-	-	0.0	-	172	174	-	19992	95%	3%	3%
OLA081	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-67	-57	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	128	0	-	-	0.0	-	172	175	-	19992	95%	3%	3%
OLA082	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	83	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	446	0	-	-	0.0	-	172	181	-	19992	95%	3%	3%
OLA083	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	82	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	490	0	82	90	2.0	13	172	182	182	19992	95%	3%	3%
OLA084	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	77	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	544	0	77	85	1.6	18	172	183	182	19992	95%	3%	3%
OLA085	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	63	69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	34	646	0	63	69	2.6	8	172	182	181	19992	95%	3%	3%
OLA086	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	77	1992	0	-	-	0.0	-	172	193	-	19992	95%	3%	3%
OLA087	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	2032	0	-	-	0.0	-	172	194	-	19992	95%	3%	3%
OLA088	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	84	2052	0	-	-	0.0	-	172	194	-	19992	95%	3%	3%
OLA089	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	2282	0	-	-	0.0	-	172	205	-	19992	95%	3%	3%
OLA090	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	81	2300	0	-	-	0.0	-	172	205	-	19992	95%	3%	3%
OLA091	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	2678	0	-	-	0.0	-	172	203	-	19992	95%	3%	3%
OLA092	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	2823	0	-	-	0.0	-	172	203	-	19992	95%	3%	3%
OLA093	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	2920	0	-	-	0.0	-	172	202	-	19992	95%	3%	3%
OLA094	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	84	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	3090	0	-	-	0.0	-	172	202	-	19992	95%	3%	3%
OLA095	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	76	77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	73	3161	0	-	-	0.0	-	172	202	-	19992	95%	3%	3%
OLA096	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	91	3177	0	-	-	0.0	-	172	202	-	19992	95%	3%	3%
OLA097	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	69	69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	33	3221	0	69	69	1.8	5	172	202	201	19992	95%	3%	3%
OLA098	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	67	68	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	3265	0	67	68	1.8	4	172	202	202	19992	95%	3%	3%
OLA099	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	68	68	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	47	3399	0	-	-	0.0	-	172	201	-	19992	95%	3%	3%
OLA100	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	3846	0	-	-	0.0	-	172	202	-	19992	95%	3%	3%
OLA101	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	3917	0	-	-	0.0	-	172	201	-	19992	95%	3%	3%
OLA102	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	69	4118	0	-	-	0.0	-	172	198	-	19992	95%	3%	3%
OLA103	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-78	-78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	62	4288	0	-	-	0.0	-	172	197	-	19992	95%	3%	3%
OLA104	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-70	-69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	91	4483	0	-	-	0.0	-	172	196	-	19992	95%	3%	3%

Start of Construction - 2023 S02_SBf Kennedy Road 16th Avenue Highway 7

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	174	3721	0	-	-	0.0	-	172	209	-	19992	95%	3%	3%
OLA002	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	57	3670	0	-	-	0.0	-	172	207	-	19992	95%	3%	3%
OLA003	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	33	3663	0	81	81	2.0	4	172	207	206	19992	95%	3%	3%
OLA004	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	80	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	55	3574	0	-	-	0.0	-	172	207	-	19992	95%	3%	3%
OLA005	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	3528	0	81	82	2.2	5	172	208	207	19992	95%	3%	3%
OLA006	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	3483	0	-	-	0.0	-	172	207	-	19992	95%	3%	3%
OLA007	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	80	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	3497	0	80	81	2.1	5	172	208	207	19992	95%	3%	3%
OLA008	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	3413	0	-	-	0.0	-	172	207	-	19992	95%	3%	3%
OLA009	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	22	3421	0	81	81	2.1	5	172	207	207	19992	95%	3%	3%
OLA010	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	49	3312	0	-	-	0.0	-	172	206	-	19992	95%	3%	3%
OLA011	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	80	80	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	3335	0	-	-	0.0	-	172	206	-	19992	95%	3%	3%
OLA012	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	3225	0	-	-	0.0	-	172	204	-	19992	95%	3%	3%
OLA013	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	56	3165	0	-	-	0.0	-	172	204	-	19992	95%	3%	3%
OLA014	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	80	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	19	3164	0	80	81	2.0	4	172	203	203	19992	95%	3%	3%
OLA015	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	24	3087	0	81	82	2.0	6	172	202	202	19992	95%	3%	3%
OLA016	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	65	3050	0	-	-	0.0	-	172	200	-	19992	95%	3%	3%
OLA017	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	38	2792	0	-	-	0.0	-	172	196	-	19992	95%	3%	3%
OLA018	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	2757	0	-	-	0.0	-	172	196	-	19992	95%	3%	3%
OLA019	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	2714	0	-	-	0.0	-	172	197	-	19992	95%	3%	3%
OLA020	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	2624	0	-	-	0.0	-	172	197	-	19992	95%	3%	3%
OLA021	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	69	2574	0	-	-	0.0	-	172	200	-	19992	95%	3%	3%
OLA022	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	2432	0	-	-	0.0	-	172	200	-	19992	95%	3%	3%
OLA023	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	77	78	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	73	2427	0	-	-	0.0	-	172	199	-	19992	95%	3%	3%
OLA024	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	80	80	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	2241	0	-	-	0.0	-	172	193	-	19992	95%	3%	3%
OLA025	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	37	2161	0	-	-	0.0	-	172	191	-	19992	95%	3%	3%
OLA026	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	72	74	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	53	1804	0	72	74	6.0	3	172	183	183	19992	95%	3%	3%
OLA027	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	49	1735	0	-	-	0.0	-	172	185	-	19992	95%	3%	3%
OLA028	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	74	76	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	1723	0	-	-	0.0	-	172	182	-	19992	95%	3%	3%
OLA029	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	55	1675	0	-	-	0.0	-	172	185	-	19992	95%	3%	3%
OLA030	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	51	1633	0	-	-	0.0	-	172	184	-	19992	95%	3%	3%
OLA031	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	88	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	1651	0	-	-	0.0	-	172	182	-	19992	95%	3%	3%
OLA032	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	65	1578	0	-	-	0.0	-	172	181	-	19992	95%	3%	3%
OLA033	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-73	-72	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	1550	0	-	-	0.0	-	172	182	-	19992	95%	3%	3%
OLA034	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	1557	0	-	-	0.0	-	172	182	-	19992	95%	3%	3%
OLA035	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	1476	0	-	-	0.0	-	172	182	-	19992	95%	3%	3%
OLA036	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-61	-60	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	1490	0	-	-	0.0	-	172	182	-	19992	95%	3%	3%
OLA037	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	1428	0	-	-	0.0	-	172	182	-	19992	95%	3%	3%
OLA038	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-50	-49	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	1436	0	-	-	0.0	-	172	182	-	19992	95%	3%	3%
OLA039	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	1383	0	-	-	0.0	-	172	181	-	19992	95%	3%	3%
OLA040	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-40	-39	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	1395	0	-	-	0.0	-	172	183	-	19992	95%	3%	3%
OLA041	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	36	1336	0	-	-	0.0	-	172	181	-	19992	95%	3%	3%
OLA042	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	1321	0	-	-	0.0	-	172	182	-	19992	95%	3%	3%
OLA043	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-32	-31	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	37	1365	0	-32	-31	1.8	12	172	183	182	19992	95%	3%	3%
OLA044	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	1290	0	-	-	0.0	-	172	182	-	19992	95%	3%	3%
OLA045	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	1263	0	-	-	0.0	-	172	183	-	19992	95%	3%	3%
OLA046	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-37	-36	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	1315	0	-	-	0.0	-	172	185	-	19992	95%	3%	3%
OLA047	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	1212	0	-	-	0.0	-	172	183	-	19992	95%	3%	3%
OLA048	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-53	-53	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	1210	0	-53	-53	2.0	10	172	184	184	19992	95%	3%	3%
OLA049	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-59	-58	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	1187	0	-59	-58	2.0	25	172	184	185	19992	95%	3%	3%
OLA050	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	1156	0	-	-	0.0	-	172	185	-	19992	95%	3%	3%
OLA051	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-65	-64	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	1130	0	-65	-64	2.0	11	172	184	185	19992	95%	3%	3%
OLA052	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	1102	0	-	-	0.0	-	172	185	-	19992	95%	3%	3%
OLA053	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-71	-70	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	1084	0	-71	-70	2.0	19	172	184	185	19992	95%	3%	3%
OLA054	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-82	-81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	1031	0	-82	-81	2.0	12	172	184	186	19992	95%	3%	3%
OLA055	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	36	1036	0	-	-	0.0	-	172	185	-	19992	95%	3%	3%
OLA056	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-83	-82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	978	0	-83	-82	2.0	13	172	185	186	19992	95%	3%	3%
OLA057	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	37	981	0	-	-	0.0	-	172	185	-	19992	95%	3%	3%

OLA058	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-83	-82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	32	923	0	-83	-82	2.0	10	172	185	186	19992	95%	3%	3%
OLA059	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	916	0	-	-	0.0	-	172	185	-	19992	95%	3%	3%
OLA060	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-82	-81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	37	870	0	-82	-81	1.8	15	172	186	186	19992	95%	3%	3%
OLA061	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	35	839	0	-	-	0.0	-	172	184	-	19992	95%	3%	3%
OLA062	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-82	-81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	30	813	0	-82	-81	1.8	7	172	186	185	19992	95%	3%	3%
OLA063	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	17	776	0	-	-	0.0	-	172	185	-	19992	95%	3%	3%
OLA064	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-80	-78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	52	767	0	-80	-78	1.8	6	172	186	185	19992	95%	3%	3%
OLA065	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	698	0	-	-	0.0	-	172	183	-	19992	95%	3%	3%
OLA066	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	643	0	-	-	0.0	-	172	183	-	19992	95%	3%	3%
OLA067	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	595	0	-77	-74	1.8	14	172	181	182	19992	95%	3%	3%
OLA068	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	558	0	-	-	0.0	-	172	180	-	19992	95%	3%	3%
OLA069	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-76	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	59	523	0	-76	-71	1.8	31	172	181	180	19992	95%	3%	3%
OLA070	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-76	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	474	0	-76	-71	1.8	17	172	179	178	19992	95%	3%	3%
OLA071	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	466	0	-	-	0.0	-	172	178	-	19992	95%	3%	3%
OLA072	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	399	0	-	-	0.0	-	172	177	-	19992	95%	3%	3%
OLA073	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-68	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	392	0	-75	-68	1.9	10	172	177	177	19992	95%	3%	3%
OLA074	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	317	0	-	-	0.0	-	172	176	-	19992	95%	3%	3%
OLA075	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-69	-57	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	68	317	0	-	-	0.0	-	172	175	-	19992	95%	3%	3%
OLA076	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-74	-58	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	78	259	0	-	-	0.0	-	172	175	-	19992	95%	3%	3%
OLA077	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	21	68	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	27	0	30	68	6.0	3	172	174	174	19992	95%	3%	3%
OLA078	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	5	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	72	72	0	-81	5	6.0	3	172	172	172	19992	95%	3%	3%
OLA079	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-55	74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	36	36	0	-55	-40	6.0	3	173	175	175	19992	95%	3%	3%
OLA080	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-79	74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	31	31	0	-79	-76	1.7	30	173	174	174	19992	95%	3%	3%
OLA081	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-57	62	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	58	0	-	-	0.0	-	173	175	-	19992	95%	3%	3%
OLA082	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	76	83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	233	0	-	-	0.0	-	174	181	-	19992	95%	3%	3%
OLA083	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	77	82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	275	0	77	82	2.0	13	174	182	182	19992	95%	3%	3%
OLA084	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	73	77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	328	0	73	77	1.6	18	174	183	182	19992	95%	3%	3%
OLA085	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	63	63	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	34	428	0	63	63	2.6	8	174	182	181	19992	95%	3%	3%
OLA086	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	77	1781	0	-	-	0.0	-	174	193	-	19992	95%	3%	3%
OLA087	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	1822	0	-	-	0.0	-	174	194	-	19992	95%	3%	3%
OLA088	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	84	1841	0	-	-	0.0	-	174	194	-	19992	95%	3%	3%
OLA089	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	2071	0	-	-	0.0	-	174	205	-	19992	95%	3%	3%
OLA090	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	81	2088	0	-	-	0.0	-	174	205	-	19992	95%	3%	3%
OLA091	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	2465	0	-	-	0.0	-	174	203	-	19992	95%	3%	3%
OLA092	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	2610	0	-	-	0.0	-	174	203	-	19992	95%	3%	3%
OLA093	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	2706	0	-	-	0.0	-	174	202	-	19992	95%	3%	3%
OLA094	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	84	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	2877	0	-	-	0.0	-	174	202	-	19992	95%	3%	3%
OLA095	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	76	77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	73	2947	0	-	-	0.0	-	174	202	-	19992	95%	3%	3%
OLA096	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	91	2966	0	-	-	0.0	-	174	202	-	19992	95%	3%	3%
OLA097	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	69	69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	33	3009	0	69	69	1.8	5	174	202	201	19992	95%	3%	3%
OLA098	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	67	68	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	3052	0	67	68	1.8	4	174	202	202	19992	95%	3%	3%
OLA099	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	68	69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	47	3187	0	-	-	0.0	-	174	201	-	19992	95%	3%	3%
OLA100	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	3638	0	-	-	0.0	-	174	202	-	19992	95%	3%	3%
OLA101	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	3709	0	-	-	0.0	-	174	201	-	19992	95%	3%	3%
OLA102	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	69	3912	0	-	-	0.0	-	174	198	-	19992	95%	3%	3%
OLA103	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-78	-77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	62	4081	0	-	-	0.0	-	174	197	-	19992	95%	3%	3%
OLA104	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-69	-69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	91	4276	0	-	-	0.0	-	174	196	-	19992	95%	3%	3%

Start of Construction - 2023 S03_SBa Kennedy Road Highway 7 Highway 407

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	174	3937	0	-	-	0.0	-	174	209	-	25886	93%	3%	4%
OLA002	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	57	3885	0	-	-	0.0	-	174	207	-	25886	93%	3%	4%
OLA003	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	33	3878	0	81	82	2.0	4	174	207	206	25886	93%	3%	4%
OLA004	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	55	3789	0	-	-	0.0	-	174	207	-	25886	93%	3%	4%
OLA005	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	82	82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	3743	0	82	82	2.2	5	174	208	207	25886	93%	3%	4%
OLA006	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	3699	0	-	-	0.0	-	174	207	-	25886	93%	3%	4%
OLA007	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	3713	0	81	81	2.1	5	174	208	207	25886	93%	3%	4%
OLA008	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	3628	0	-	-	0.0	-	174	207	-	25886	93%	3%	4%
OLA009	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	22	3636	0	81	82	2.1	5	174	207	207	25886	93%	3%	4%
OLA010	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	49	3527	0	-	-	0.0	-	174	206	-	25886	93%	3%	4%
OLA011	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	80	80	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	3550	0	-	-	0.0	-	174	206	-	25886	93%	3%	4%
OLA012	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	3440	0	-	-	0.0	-	174	204	-	25886	93%	3%	4%
OLA013	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	56	3380	0	-	-	0.0	-	174	204	-	25886	93%	3%	4%
OLA014	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	19	3379	0	81	81	2.0	4	174	203	203	25886	93%	3%	4%
OLA015	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	82	82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	24	3302	0	82	82	2.0	6	174	202	202	25886	93%	3%	4%
OLA016	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	65	3264	0	-	-	0.0	-	174	200	-	25886	93%	3%	4%
OLA017	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	38	3007	0	-	-	0.0	-	174	196	-	25886	93%	3%	4%
OLA018	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	2972	0	-	-	0.0	-	174	196	-	25886	93%	3%	4%
OLA019	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	2929	0	-	-	0.0	-	174	197	-	25886	93%	3%	4%
OLA020	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	2839	0	-	-	0.0	-	174	197	-	25886	93%	3%	4%
OLA021	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	69	2789	0	-	-	0.0	-	174	200	-	25886	93%	3%	4%
OLA022	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	2647	0	-	-	0.0	-	174	200	-	25886	93%	3%	4%
OLA023	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	78	78	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	73	2640	0	-	-	0.0	-	174	199	-	25886	93%	3%	4%
OLA024	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	80	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	2454	0	-	-	0.0	-	174	193	-	25886	93%	3%	4%
OLA025	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	37	2375	0	-	-	0.0	-	174	191	-	25886	93%	3%	4%
OLA026	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	74	75	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	53	2014	0	74	75	6.0	3	174	183	183	25886	93%	3%	4%
OLA027	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	49	1947	0	-	-	0.0	-	174	185	-	25886	93%	3%	4%
OLA028	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	76	77	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	1933	0	-	-	0.0	-	174	182	-	25886	93%	3%	4%
OLA029	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	55	1887	0	-	-	0.0	-	174	185	-	25886	93%	3%	4%
OLA030	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	51	1845	0	-	-	0.0	-	174	184	-	25886	93%	3%	4%
OLA031	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	1860	0	-	-	0.0	-	174	182	-	25886	93%	3%	4%
OLA032	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	65	1786	0	-	-	0.0	-	174	181	-	25886	93%	3%	4%
OLA033	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-72	-71	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	1761	0	-	-	0.0	-	174	182	-	25886	93%	3%	4%
OLA034	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	1766	0	-	-	0.0	-	174	182	-	25886	93%	3%	4%
OLA035	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	1686	0	-	-	0.0	-	174	182	-	25886	93%	3%	4%
OLA036	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-60	-59	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	1703	0	-	-	0.0	-	174	182	-	25886	93%	3%	4%
OLA037	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	1639	0	-	-	0.0	-	174	182	-	25886	93%	3%	4%
OLA038	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-49	-48	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	1649	0	-	-	0.0	-	174	182	-	25886	93%	3%	4%
OLA039	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	1595	0	-	-	0.0	-	174	181	-	25886	93%	3%	4%
OLA040	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-39	-38	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	1609	0	-	-	0.0	-	174	183	-	25886	93%	3%	4%
OLA041	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	36	1549	0	-	-	0.0	-	174	181	-	25886	93%	3%	4%
OLA042	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	1535	0	-	-	0.0	-	174	182	-	25886	93%	3%	4%
OLA043	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-31	-31	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	37	1580	0	-31	-31	1.8	12	174	183	182	25886	93%	3%	4%
OLA044	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	1505	0	-	-	0.0	-	174	182	-	25886	93%	3%	4%
OLA045	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	1479	0	-	-	0.0	-	174	183	-	25886	93%	3%	4%
OLA046	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-36	-36	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	1530	0	-	-	0.0	-	174	185	-	25886	93%	3%	4%
OLA047	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	1428	0	-	-	0.0	-	174	183	-	25886	93%	3%	4%
OLA048	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-54	-53	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	1427	0	-54	-53	2.0	10	174	184	184	25886	93%	3%	4%
OLA049	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-60	-59	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	1403	0	-60	-59	2.0	25	174	184	185	25886	93%	3%	4%
OLA050	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	1373	0	-	-	0.0	-	174	185	-	25886	93%	3%	4%
OLA051	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-66	-65	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	1346	0	-66	-65	2.0	11	174	184	185	25886	93%	3%	4%
OLA052	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	1318	0	-	-	0.0	-	174	185	-	25886	93%	3%	4%
OLA053	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-73	-71	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	1300	0	-73	-71	2.0	19	174	184	185	25886	93%	3%	4%
OLA054	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-83	-82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	1247	0	-83	-82	2.0	12	174	184	186	25886	93%	3%	4%
OLA055	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	36	1252	0	-	-	0.0	-	174	185	-	25886	93%	3%	4%
OLA056	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-85	-83	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	1194	0	-85	-83	2.0	13	174	185	186	25886	93%	3%	4%
OLA057	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	37	1197	0	-	-	0.0	-	174	185	-	25886	93%	3%	4%

OLA058	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-85	-83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	32	1138	0	-85	-83	2.0	10	174	185	186	25886	93%	3%	4%
OLA059	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	1132	0	-	-	0.0	-	174	185	-	25886	93%	3%	4%
OLA060	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-84	-82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	37	1085	0	-84	-82	1.8	15	174	186	186	25886	93%	3%	4%
OLA061	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	35	1055	0	-	-	0.0	-	174	184	-	25886	93%	3%	4%
OLA062	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-84	-82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	30	1027	0	-84	-82	1.8	7	174	186	185	25886	93%	3%	4%
OLA063	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	17	992	0	-	-	0.0	-	174	185	-	25886	93%	3%	4%
OLA064	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-83	-80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	52	981	0	-83	-80	1.8	6	174	186	185	25886	93%	3%	4%
OLA065	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	914	0	-	-	0.0	-	174	183	-	25886	93%	3%	4%
OLA066	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	859	0	-	-	0.0	-	174	183	-	25886	93%	3%	4%
OLA067	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	807	0	-81	-77	1.8	14	174	181	182	25886	93%	3%	4%
OLA068	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	774	0	-	-	0.0	-	174	180	-	25886	93%	3%	4%
OLA069	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-80	-76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	59	734	0	-80	-76	1.8	31	174	181	180	25886	93%	3%	4%
OLA070	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-80	-76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	685	0	-80	-76	1.8	17	174	179	178	25886	93%	3%	4%
OLA071	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	681	0	-	-	0.0	-	174	178	-	25886	93%	3%	4%
OLA072	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	613	0	-	-	0.0	-	174	177	-	25886	93%	3%	4%
OLA073	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-80	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	600	0	-80	-75	1.9	10	174	177	177	25886	93%	3%	4%
OLA074	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	531	0	-	-	0.0	-	174	176	-	25886	93%	3%	4%
OLA075	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	68	516	0	-	-	0.0	-	174	175	-	25886	93%	3%	4%
OLA076	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-83	-74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	78	452	0	-	-	0.0	-	174	175	-	25886	93%	3%	4%
OLA077	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	68	69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	233	0	68	69	6.0	3	174	174	174	25886	93%	3%	4%
OLA078	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	72	209	0	-90	-81	6.0	3	174	172	172	25886	93%	3%	4%
OLA079	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	74	83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	36	159	0	-	-	0.0	-	174	175	-	25886	93%	3%	4%
OLA080	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-88	-79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	31	139	0	-88	-79	1.7	30	174	174	174	25886	93%	3%	4%
OLA081	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	62	82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	124	0	-	-	0.0	-	174	175	-	25886	93%	3%	4%
OLA082	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-56	76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	49	0	-56	43	1.8	15	180	181	181	25886	93%	3%	4%
OLA083	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-44	77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	38	0	-44	77	2.0	13	181	182	182	25886	93%	3%	4%
OLA084	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	16	73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	43	0	16	73	1.6	18	181	183	182	25886	93%	3%	4%
OLA085	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	63	66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	34	121	0	63	66	2.6	8	181	182	181	25886	93%	3%	4%
OLA086	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	77	1494	0	-	-	0.0	-	181	193	-	25886	93%	3%	4%
OLA087	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	1535	0	-	-	0.0	-	181	194	-	25886	93%	3%	4%
OLA088	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	84	1552	0	-	-	0.0	-	181	194	-	25886	93%	3%	4%
OLA089	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	1780	0	-	-	0.0	-	181	205	-	25886	93%	3%	4%
OLA090	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	81	1796	0	-	-	0.0	-	181	205	-	25886	93%	3%	4%
OLA091	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	2171	0	-	-	0.0	-	181	203	-	25886	93%	3%	4%
OLA092	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	2315	0	-	-	0.0	-	181	203	-	25886	93%	3%	4%
OLA093	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	2411	0	-	-	0.0	-	181	202	-	25886	93%	3%	4%
OLA094	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	85	87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	2580	0	-	-	0.0	-	181	202	-	25886	93%	3%	4%
OLA095	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	77	79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	73	2650	0	-	-	0.0	-	181	202	-	25886	93%	3%	4%
OLA096	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	91	2675	0	-	-	0.0	-	181	202	-	25886	93%	3%	4%
OLA097	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	69	71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	33	2714	0	69	71	1.8	5	181	202	201	25886	93%	3%	4%
OLA098	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	68	70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	2757	0	68	70	1.8	4	181	202	202	25886	93%	3%	4%
OLA099	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	69	71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	47	2893	0	-	-	0.0	-	181	201	-	25886	93%	3%	4%
OLA100	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	3352	0	-	-	0.0	-	181	202	-	25886	93%	3%	4%
OLA101	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	3423	0	-	-	0.0	-	181	201	-	25886	93%	3%	4%
OLA102	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	69	3629	0	-	-	0.0	-	181	198	-	25886	93%	3%	4%
OLA103	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	62	3797	0	-	-	0.0	-	181	197	-	25886	93%	3%	4%
OLA104	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-69	-67	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	91	3991	0	-	-	0.0	-	181	196	-	25886	93%	3%	4%

Start of Construction - 2023 S03_SBb Kennedy Road Highway 7 Highway 407

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	174	4244	0	-	-	0.0	-	181	209	-	25886	93%	3%	4%
OLA002	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	57	4192	0	-	-	0.0	-	181	207	-	25886	93%	3%	4%
OLA003	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	82	83	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	33	4185	0	82	83	2.0	4	181	207	206	25886	93%	3%	4%
OLA004	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	55	4095	0	-	-	0.0	-	181	207	-	25886	93%	3%	4%
OLA005	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	82	83	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	4050	0	82	83	2.2	5	181	208	207	25886	93%	3%	4%
OLA006	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	4006	0	-	-	0.0	-	181	207	-	25886	93%	3%	4%
OLA007	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	4019	0	81	82	2.1	5	181	208	207	25886	93%	3%	4%
OLA008	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	3935	0	-	-	0.0	-	181	207	-	25886	93%	3%	4%
OLA009	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	82	83	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	22	3943	0	82	83	2.1	5	181	207	207	25886	93%	3%	4%
OLA010	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	49	3834	0	-	-	0.0	-	181	206	-	25886	93%	3%	4%
OLA011	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	80	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	3856	0	-	-	0.0	-	181	206	-	25886	93%	3%	4%
OLA012	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	3747	0	-	-	0.0	-	181	204	-	25886	93%	3%	4%
OLA013	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	56	3687	0	-	-	0.0	-	181	204	-	25886	93%	3%	4%
OLA014	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	19	3685	0	81	82	2.0	4	181	203	203	25886	93%	3%	4%
OLA015	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	82	83	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	24	3608	0	82	83	2.0	6	181	202	202	25886	93%	3%	4%
OLA016	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	82	83	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	65	3570	0	-	-	0.0	-	181	200	-	25886	93%	3%	4%
OLA017	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	38	3314	0	-	-	0.0	-	181	196	-	25886	93%	3%	4%
OLA018	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	3278	0	-	-	0.0	-	181	196	-	25886	93%	3%	4%
OLA019	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	3235	0	-	-	0.0	-	181	197	-	25886	93%	3%	4%
OLA020	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	3145	0	-	-	0.0	-	181	197	-	25886	93%	3%	4%
OLA021	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	69	3095	0	-	-	0.0	-	181	200	-	25886	93%	3%	4%
OLA022	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	2953	0	-	-	0.0	-	181	200	-	25886	93%	3%	4%
OLA023	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	78	80	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	73	2945	0	-	-	0.0	-	181	199	-	25886	93%	3%	4%
OLA024	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	83	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	2759	0	-	-	0.0	-	181	193	-	25886	93%	3%	4%
OLA025	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	37	2681	0	-	-	0.0	-	181	191	-	25886	93%	3%	4%
OLA026	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	75	77	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	53	2316	0	75	77	6.0	3	181	183	183	25886	93%	3%	4%
OLA027	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	49	2251	0	-	-	0.0	-	181	185	-	25886	93%	3%	4%
OLA028	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	77	80	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	2236	0	-	-	0.0	-	181	182	-	25886	93%	3%	4%
OLA029	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	55	2191	0	-	-	0.0	-	181	185	-	25886	93%	3%	4%
OLA030	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	51	2149	0	-	-	0.0	-	181	184	-	25886	93%	3%	4%
OLA031	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	2162	0	-	-	0.0	-	181	182	-	25886	93%	3%	4%
OLA032	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	65	2088	0	-	-	0.0	-	181	181	-	25886	93%	3%	4%
OLA033	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-71	-68	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	2066	0	-	-	0.0	-	181	182	-	25886	93%	3%	4%
OLA034	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	2069	0	-	-	0.0	-	181	182	-	25886	93%	3%	4%
OLA035	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	1989	0	-	-	0.0	-	181	182	-	25886	93%	3%	4%
OLA036	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-59	-56	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	2007	0	-	-	0.0	-	181	182	-	25886	93%	3%	4%
OLA037	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	1943	0	-	-	0.0	-	181	182	-	25886	93%	3%	4%
OLA038	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-48	-45	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	1954	0	-	-	0.0	-	181	182	-	25886	93%	3%	4%
OLA039	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	1899	0	-	-	0.0	-	181	181	-	25886	93%	3%	4%
OLA040	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-38	-36	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	1915	0	-	-	0.0	-	181	183	-	25886	93%	3%	4%
OLA041	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	36	1854	0	-	-	0.0	-	181	181	-	25886	93%	3%	4%
OLA042	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	1841	0	-	-	0.0	-	181	182	-	25886	93%	3%	4%
OLA043	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-31	-28	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	37	1886	0	-31	-28	1.8	12	181	183	182	25886	93%	3%	4%
OLA044	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	1811	0	-	-	0.0	-	181	182	-	25886	93%	3%	4%
OLA045	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	1786	0	-	-	0.0	-	181	183	-	25886	93%	3%	4%
OLA046	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-36	-34	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	1837	0	-	-	0.0	-	181	185	-	25886	93%	3%	4%
OLA047	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	1735	0	-	-	0.0	-	181	183	-	25886	93%	3%	4%
OLA048	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-54	-52	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	1733	0	-54	-52	2.0	10	181	184	184	25886	93%	3%	4%
OLA049	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-60	-58	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	1709	0	-60	-58	2.0	25	181	184	185	25886	93%	3%	4%
OLA050	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	1679	0	-	-	0.0	-	181	185	-	25886	93%	3%	4%
OLA051	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-66	-64	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	1652	0	-66	-64	2.0	11	181	184	185	25886	93%	3%	4%
OLA052	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	1625	0	-	-	0.0	-	181	185	-	25886	93%	3%	4%
OLA053	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-73	-71	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	1605	0	-73	-71	2.0	19	181	184	185	25886	93%	3%	4%
OLA054	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-83	-81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	1552	0	-83	-81	2.0	12	181	184	186	25886	93%	3%	4%
OLA055	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	36	1558	0	-	-	0.0	-	181	185	-	25886	93%	3%	4%
OLA056	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-85	-83	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	1498	0	-85	-83	2.0	13	181	185	186	25886	93%	3%	4%
OLA057	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	37	1503	0	-	-	0.0	-	181	185	-	25886	93%	3%	4%

OLA058	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-85	-83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	32	1443	0	-85	-83	2.0	10	181	185	186	25886	93%	3%	4%
OLA059	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	1438	0	-	-	0.0	-	181	185	-	25886	93%	3%	4%
OLA060	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-84	-82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	37	1389	0	-84	-82	1.8	15	181	186	186	25886	93%	3%	4%
OLA061	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	35	1361	0	-	-	0.0	-	181	184	-	25886	93%	3%	4%
OLA062	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-84	-82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	30	1332	0	-84	-82	1.8	7	181	186	185	25886	93%	3%	4%
OLA063	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	17	1298	0	-	-	0.0	-	181	185	-	25886	93%	3%	4%
OLA064	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-83	-81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	52	1285	0	-83	-81	1.8	6	181	186	185	25886	93%	3%	4%
OLA065	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	1220	0	-	-	0.0	-	181	183	-	25886	93%	3%	4%
OLA066	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	1165	0	-	-	0.0	-	181	183	-	25886	93%	3%	4%
OLA067	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	1108	0	-81	-78	1.8	14	181	181	182	25886	93%	3%	4%
OLA068	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	1080	0	-	-	0.0	-	181	180	-	25886	93%	3%	4%
OLA069	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-80	-78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	59	1035	0	-80	-78	1.8	31	181	181	180	25886	93%	3%	4%
OLA070	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-80	-78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	986	0	-80	-78	1.8	17	181	179	178	25886	93%	3%	4%
OLA071	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	986	0	-	-	0.0	-	181	178	-	25886	93%	3%	4%
OLA072	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	918	0	-	-	0.0	-	181	177	-	25886	93%	3%	4%
OLA073	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-80	-77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	900	0	-80	-77	1.9	10	181	177	177	25886	93%	3%	4%
OLA074	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	836	0	-	-	0.0	-	181	176	-	25886	93%	3%	4%
OLA075	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	68	811	0	-	-	0.0	-	181	175	-	25886	93%	3%	4%
OLA076	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-83	-81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	78	745	0	-	-	0.0	-	181	175	-	25886	93%	3%	4%
OLA077	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	69	75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	540	0	69	75	6.0	3	181	174	174	25886	93%	3%	4%
OLA078	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	72	507	0	-90	-90	6.0	3	181	172	172	25886	93%	3%	4%
OLA079	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	83	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	36	463	0	-	-	0.0	-	181	175	-	25886	93%	3%	4%
OLA080	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-88	-82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	31	443	0	-88	-82	1.7	30	181	174	174	25886	93%	3%	4%
OLA081	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	82	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	421	0	-	-	0.0	-	181	175	-	25886	93%	3%	4%
OLA082	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-62	-56	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	99	0	-62	-56	1.8	15	181	181	181	25886	93%	3%	4%
OLA083	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-63	-44	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	55	0	-63	-44	2.0	13	181	182	182	25886	93%	3%	4%
OLA084	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-60	16	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	42	0	-60	16	1.6	18	181	183	182	25886	93%	3%	4%
OLA085	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-53	66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	34	34	0	-53	66	2.6	8	180	182	181	25886	93%	3%	4%
OLA086	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	77	1332	0	-	-	0.0	-	179	193	-	25886	93%	3%	4%
OLA087	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	1373	0	-	-	0.0	-	179	194	-	25886	93%	3%	4%
OLA088	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	84	1391	0	-	-	0.0	-	179	194	-	25886	93%	3%	4%
OLA089	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	1619	0	-	-	0.0	-	179	205	-	25886	93%	3%	4%
OLA090	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	81	1635	0	-	-	0.0	-	179	205	-	25886	93%	3%	4%
OLA091	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	2010	0	-	-	0.0	-	179	203	-	25886	93%	3%	4%
OLA092	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	2155	0	-	-	0.0	-	179	203	-	25886	93%	3%	4%
OLA093	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	2250	0	-	-	0.0	-	179	202	-	25886	93%	3%	4%
OLA094	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	86	87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	2420	0	-	-	0.0	-	179	202	-	25886	93%	3%	4%
OLA095	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	78	79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	73	2491	0	-	-	0.0	-	179	202	-	25886	93%	3%	4%
OLA096	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	91	2514	0	-	-	0.0	-	179	202	-	25886	93%	3%	4%
OLA097	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	71	71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	33	2553	0	71	71	1.8	5	179	202	201	25886	93%	3%	4%
OLA098	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	69	70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	2597	0	69	70	1.8	4	179	202	202	25886	93%	3%	4%
OLA099	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	70	71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	47	2733	0	-	-	0.0	-	179	201	-	25886	93%	3%	4%
OLA100	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	3190	0	-	-	0.0	-	179	202	-	25886	93%	3%	4%
OLA101	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	3261	0	-	-	0.0	-	179	201	-	25886	93%	3%	4%
OLA102	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	69	3466	0	-	-	0.0	-	179	198	-	25886	93%	3%	4%
OLA103	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	62	3635	0	-	-	0.0	-	179	197	-	25886	93%	3%	4%
OLA104	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-67	-67	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	91	3829	0	-	-	0.0	-	179	196	-	25886	93%	3%	4%

Start of Construction - 2023 S03_SBc Kennedy Road Highway 7 Highway 407

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	174	4392	0	-90	-88	2.0	7	179	209	209	25886	93%	3%	4%
OLA002	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	57	4338	0	-	-	0.0	-	179	207	-	25886	93%	3%	4%
OLA003	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	83	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	33	4329	0	83	90	2.0	4	179	207	206	25886	93%	3%	4%
OLA004	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	82	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	55	4239	0	-	-	0.0	-	179	207	-	25886	93%	3%	4%
OLA005	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	83	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	4194	0	83	90	2.2	5	179	208	207	25886	93%	3%	4%
OLA006	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	4151	0	-90	-90	2.1	6	179	207	207	25886	93%	3%	4%
OLA007	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	82	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	4163	0	82	89	2.1	5	179	208	207	25886	93%	3%	4%
OLA008	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	4080	0	-	-	0.0	-	179	207	-	25886	93%	3%	4%
OLA009	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	83	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	22	4087	0	83	90	2.1	5	179	207	207	25886	93%	3%	4%
OLA010	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	49	3979	0	-90	-90	1.9	8	179	206	206	25886	93%	3%	4%
OLA011	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	3999	0	-	-	0.0	-	179	206	-	25886	93%	3%	4%
OLA012	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	3891	0	-90	-89	2.4	7	179	204	204	25886	93%	3%	4%
OLA013	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	56	3832	0	-	-	0.0	-	179	204	-	25886	93%	3%	4%
OLA014	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	82	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	19	3829	0	82	90	2.0	4	179	203	203	25886	93%	3%	4%
OLA015	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	83	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	24	3751	0	83	90	2.0	6	179	202	202	25886	93%	3%	4%
OLA016	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	83	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	65	3712	0	-	-	0.0	-	179	200	-	25886	93%	3%	4%
OLA017	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	38	3457	0	-90	-88	1.9	7	179	196	196	25886	93%	3%	4%
OLA018	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	3422	0	-90	-88	1.9	2	179	196	196	25886	93%	3%	4%
OLA019	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	3379	0	-	-	0.0	-	179	197	-	25886	93%	3%	4%
OLA020	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	3288	0	-90	-87	2.0	8	179	197	197	25886	93%	3%	4%
OLA021	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	69	3239	0	-	-	0.0	-	179	200	-	25886	93%	3%	4%
OLA022	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	3096	0	-90	-85	9.0	3	179	200	200	25886	93%	3%	4%
OLA023	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	80	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	73	3085	0	-	-	0.0	-	179	199	-	25886	93%	3%	4%
OLA024	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	83	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	2898	0	-	-	0.0	-	179	193	-	25886	93%	3%	4%
OLA025	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	37	2822	0	-90	-86	1.8	5	179	191	192	25886	93%	3%	4%
OLA026	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	77	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	53	2452	0	77	90	6.0	3	179	183	183	25886	93%	3%	4%
OLA027	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	49	2390	0	-90	-89	2.5	26	179	185	184	25886	93%	3%	4%
OLA028	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	80	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	2371	0	-	-	0.0	-	179	182	-	25886	93%	3%	4%
OLA029	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-80	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	55	2330	0	-	-	0.0	-	179	185	-	25886	93%	3%	4%
OLA030	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	-75	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	51	2288	0	-	-	0.0	-	179	184	-	25886	93%	3%	4%
OLA031	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	2297	0	-	-	0.0	-	179	182	-	25886	93%	3%	4%
OLA032	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	65	2222	0	-	-	0.0	-	179	181	-	25886	93%	3%	4%
OLA033	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-68	-55	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	2204	0	-	-	0.0	-	179	182	-	25886	93%	3%	4%
OLA034	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	2205	0	-	-	0.0	-	179	182	-	25886	93%	3%	4%
OLA035	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	2126	0	-	-	0.0	-	179	182	-	25886	93%	3%	4%
OLA036	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-56	-43	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	2147	0	-	-	0.0	-	179	182	-	25886	93%	3%	4%
OLA037	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	2081	0	-	-	0.0	-	179	182	-	25886	93%	3%	4%
OLA038	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-45	-32	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	2095	0	-	-	0.0	-	179	182	-	25886	93%	3%	4%
OLA039	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	2039	0	-	-	0.0	-	179	181	-	25886	93%	3%	4%
OLA040	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-36	-23	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	2058	0	-	-	0.0	-	179	183	-	25886	93%	3%	4%
OLA041	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	36	1996	0	-	-	0.0	-	179	181	-	25886	93%	3%	4%
OLA042	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	1984	0	-	-	0.0	-	179	182	-	25886	93%	3%	4%
OLA043	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-28	-16	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	37	2031	0	-28	-16	1.8	12	179	183	182	25886	93%	3%	4%
OLA044	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	1956	0	-	-	0.0	-	179	182	-	25886	93%	3%	4%
OLA045	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	1932	0	-	-	0.0	-	179	183	-	25886	93%	3%	4%
OLA046	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-34	-22	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	1985	0	-	-	0.0	-	179	185	-	25886	93%	3%	4%
OLA047	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	1883	0	-	-	0.0	-	179	183	-	25886	93%	3%	4%
OLA048	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-52	-41	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	1884	0	-52	-41	2.0	10	179	184	184	25886	93%	3%	4%
OLA049	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-58	-47	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	1861	0	-58	-47	2.0	25	179	184	185	25886	93%	3%	4%
OLA050	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	1829	0	-	-	0.0	-	179	185	-	25886	93%	3%	4%
OLA051	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-64	-53	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	1804	0	-64	-53	2.0	11	179	184	185	25886	93%	3%	4%
OLA052	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	1775	0	-	-	0.0	-	179	185	-	25886	93%	3%	4%
OLA053	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-71	-60	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	1758	0	-71	-60	2.0	19	179	184	185	25886	93%	3%	4%
OLA054	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-81	-70	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	1705	0	-81	-70	2.0	12	179	184	186	25886	93%	3%	4%
OLA055	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	36	1709	0	-	-	0.0	-	179	185	-	25886	93%	3%	4%
OLA056	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-83	-72	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	1652	0	-83	-72	2.0	13	179	185	186	25886	93%	3%	4%
OLA057	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	37	1655	0	-	-	0.0	-	179	185	-	25886	93%	3%	4%

OLA058	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-83	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	32	1597	0	-83	-71	2.0	10	179	185	186	25886	93%	3%	4%
OLA059	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	1589	0	-	-	0.0	-	179	185	-	25886	93%	3%	4%
OLA060	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-82	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	37	1543	0	-82	-71	1.8	15	179	186	186	25886	93%	3%	4%
OLA061	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	35	1513	0	-	-	0.0	-	179	184	-	25886	93%	3%	4%
OLA062	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-82	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	30	1486	0	-82	-70	1.8	7	179	186	185	25886	93%	3%	4%
OLA063	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	17	1451	0	-	-	0.0	-	179	185	-	25886	93%	3%	4%
OLA064	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	52	1440	0	-81	-69	1.8	6	179	186	185	25886	93%	3%	4%
OLA065	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	1372	0	-	-	0.0	-	179	183	-	25886	93%	3%	4%
OLA066	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	1317	0	-	-	0.0	-	179	183	-	25886	93%	3%	4%
OLA067	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-78	-67	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	1265	0	-78	-67	1.8	14	179	181	182	25886	93%	3%	4%
OLA068	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	1233	0	-	-	0.0	-	179	180	-	25886	93%	3%	4%
OLA069	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-78	-66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	59	1192	0	-78	-66	1.8	31	179	181	180	25886	93%	3%	4%
OLA070	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-78	-66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	1142	0	-78	-66	1.8	17	179	179	178	25886	93%	3%	4%
OLA071	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	1140	0	-	-	0.0	-	179	178	-	25886	93%	3%	4%
OLA072	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	1072	0	-	-	0.0	-	179	177	-	25886	93%	3%	4%
OLA073	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-65	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	1058	0	-77	-65	1.9	10	179	177	177	25886	93%	3%	4%
OLA074	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	990	0	-	-	0.0	-	179	176	-	25886	93%	3%	4%
OLA075	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-63	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	68	970	0	-	-	0.0	-	179	175	-	25886	93%	3%	4%
OLA076	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	78	904	0	-	-	0.0	-	179	175	-	25886	93%	3%	4%
OLA077	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	75	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	689	0	75	90	6.0	3	179	174	174	25886	93%	3%	4%
OLA078	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	72	664	0	-90	-75	6.0	3	179	172	172	25886	93%	3%	4%
OLA079	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	36	609	0	-	-	0.0	-	179	175	-	25886	93%	3%	4%
OLA080	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-82	-65	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	31	597	0	-82	-76	1.7	30	179	174	174	25886	93%	3%	4%
OLA081	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	563	0	-	-	0.0	-	179	175	-	25886	93%	3%	4%
OLA082	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-62	-55	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	260	0	-62	-55	1.8	15	179	181	181	25886	93%	3%	4%
OLA083	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-63	-58	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	214	0	-63	-58	2.0	13	179	182	182	25886	93%	3%	4%
OLA084	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-62	-60	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	167	0	-62	-60	1.6	18	179	183	182	25886	93%	3%	4%
OLA085	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-79	-53	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	34	64	0	-79	-53	2.6	8	179	182	181	25886	93%	3%	4%
OLA086	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	70	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	77	460	0	70	90	2.0	19	189	193	194	25886	93%	3%	4%
OLA087	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	74	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	492	0	74	90	2.0	55	189	194	194	25886	93%	3%	4%
OLA088	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	72	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	84	523	0	72	90	6.0	21	189	194	194	25886	93%	3%	4%
OLA089	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	79	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	735	0	-	-	0.0	-	189	205	-	25886	93%	3%	4%
OLA090	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	77	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	81	767	0	-	-	0.0	-	189	205	-	25886	93%	3%	4%
OLA091	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	84	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	1133	0	-	-	0.0	-	189	203	-	25886	93%	3%	4%
OLA092	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	85	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	1277	0	-	-	0.0	-	189	203	-	25886	93%	3%	4%
OLA093	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	85	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	1375	0	85	90	1.7	17	189	202	201	25886	93%	3%	4%
OLA094	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	72	86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	1546	0	-	-	0.0	-	189	202	-	25886	93%	3%	4%
OLA095	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	64	78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	73	1617	0	-	-	0.0	-	189	202	-	25886	93%	3%	4%
OLA096	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	91	1600	0	-	-	0.0	-	189	202	-	25886	93%	3%	4%
OLA097	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	58	71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	33	1664	0	58	71	1.8	5	189	202	201	25886	93%	3%	4%
OLA098	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	57	69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	1708	0	57	69	1.8	4	189	202	202	25886	93%	3%	4%
OLA099	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	59	70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	47	1829	0	-	-	0.0	-	189	201	-	25886	93%	3%	4%
OLA100	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	2246	0	-	-	0.0	-	189	202	-	25886	93%	3%	4%
OLA101	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	2315	0	-	-	0.0	-	189	201	-	25886	93%	3%	4%
OLA102	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	69	2511	0	-	-	0.0	-	189	198	-	25886	93%	3%	4%
OLA103	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	62	2681	0	-	-	0.0	-	189	197	-	25886	93%	3%	4%
OLA104	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-72	-67	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	91	2878	0	-	-	0.0	-	189	196	-	25886	93%	3%	4%

Start of Construction - 2023 S04_SB Kennedy Road Highway 407 14th Avenue

POR	Posted Speed Limit (km/hr)	Road Grade (%)		Road Grade Mode		Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)		Topography		Wood Depth	No of Row of Houses	Density of 1st Row		Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	174	5231	0	-90	-88	2.0	7	189	209	209	24278	93%	4%	3%
OLA002	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	57	5163	0	-	-	0.0	-	189	207	-	24278	93%	4%	3%
OLA003	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	5143	0	89	90	2.0	4	189	207	206	24278	93%	4%	3%
OLA004	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	88	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	55	5049	0	-	-	0.0	-	189	207	-	24278	93%	4%	3%
OLA005	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	5007	0	89	90	2.2	5	189	208	207	24278	93%	4%	3%
OLA006	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	4973	0	-90	-90	2.1	6	189	207	207	24278	93%	4%	3%
OLA007	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	88	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	32	4976	0	88	89	2.1	5	189	208	207	24278	93%	4%	3%
OLA008	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	4901	0	-	-	0.0	-	189	207	-	24278	93%	4%	3%
OLA009	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	4900	0	89	90	2.1	5	189	207	207	24278	93%	4%	3%
OLA010	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	4801	0	-90	-90	1.9	8	189	206	206	24278	93%	4%	3%
OLA011	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	88	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	62	4806	0	-	-	0.0	-	189	206	-	24278	93%	4%	3%
OLA012	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	47	4712	0	-90	-89	2.4	7	189	204	204	24278	93%	4%	3%
OLA013	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	56	4653	0	-	-	0.0	-	189	204	-	24278	93%	4%	3%
OLA014	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	19	4639	0	89	90	2.0	4	189	203	203	24278	93%	4%	3%
OLA015	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	24	4560	0	-	-	0.0	-	189	202	-	24278	93%	4%	3%
OLA016	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	65	4516	0	-	-	0.0	-	189	200	-	24278	93%	4%	3%
OLA017	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	-88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	38	4274	0	-89	-88	1.9	7	189	196	196	24278	93%	4%	3%
OLA018	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	-88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	4239	0	-89	-88	1.9	2	189	196	196	24278	93%	4%	3%
OLA019	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	-88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	62	4199	0	-	-	0.0	-	189	197	-	24278	93%	4%	3%
OLA020	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	-87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	39	4104	0	-89	-87	2.0	8	189	197	197	24278	93%	4%	3%
OLA021	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-88	-87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	69	4060	0	-	-	0.0	-	189	200	-	24278	93%	4%	3%
OLA022	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	-85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	48	3913	0	-86	-85	9.0	3	189	200	200	24278	93%	4%	3%
OLA023	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	73	3881	0	-	-	0.0	-	189	199	-	24278	93%	4%	3%
OLA024	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	32	3698	0	-	-	0.0	-	189	193	-	24278	93%	4%	3%
OLA025	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	37	3634	0	-87	-86	1.8	5	189	191	192	24278	93%	4%	3%
OLA026	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	3238	0	89	90	6.0	3	189	183	183	24278	93%	4%	3%
OLA027	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	3197	0	-90	-89	2.5	26	189	185	184	24278	93%	4%	3%
OLA028	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	32	3161	0	-	-	0.0	-	189	182	-	24278	93%	4%	3%
OLA029	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	55	3139	0	-	-	0.0	-	189	185	-	24278	93%	4%	3%
OLA030	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	3097	0	-	-	0.0	-	189	184	-	24278	93%	4%	3%
OLA031	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	3084	0	-	-	0.0	-	189	182	-	24278	93%	4%	3%
OLA032	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	65	3008	0	-	-	0.0	-	189	181	-	24278	93%	4%	3%
OLA033	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-57	-55	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	35	3015	0	-	-	0.0	-	189	182	-	24278	93%	4%	3%
OLA034	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	35	2999	0	-	-	0.0	-	189	182	-	24278	93%	4%	3%
OLA035	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	2929	0	-	-	0.0	-	189	182	-	24278	93%	4%	3%
OLA036	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-45	-43	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	34	2966	0	-	-	0.0	-	189	182	-	24278	93%	4%	3%
OLA037	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	32	2893	0	-	-	0.0	-	189	182	-	24278	93%	4%	3%
OLA038	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-35	-32	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	34	2924	0	-	-	0.0	-	189	182	-	24278	93%	4%	3%
OLA039	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	35	2860	0	-	-	0.0	-	189	181	-	24278	93%	4%	3%
OLA040	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-25	-23	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	34	2897	0	-	-	0.0	-	189	183	-	24278	93%	4%	3%
OLA041	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	36	2830	0	-	-	0.0	-	189	181	-	24278	93%	4%	3%
OLA042	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	32	2824	0	-	-	0.0	-	189	182	-	24278	93%	4%	3%
OLA043	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-19	-16	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	37	2882	0	-19	-16	1.8	12	189	183	182	24278	93%	4%	3%
OLA044	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	2808	0	-	-	0.0	-	189	182	-	24278	93%	4%	3%
OLA045	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	2793	0	-	-	0.0	-	189	183	-	24278	93%	4%	3%
OLA046	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-26	-22	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	39	2854	0	-	-	0.0	-	189	185	-	24278	93%	4%	3%
OLA047	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	2755	0	-	-	0.0	-	189	183	-	24278	93%	4%	3%
OLA048	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-45	-41	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	2778	0	-45	-41	2.0	10	189	184	184	24278	93%	4%	3%
OLA049	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-51	-47	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	48	2759	0	-51	-47	2.0	25	189	184	185	24278	93%	4%	3%
OLA050	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	2715	0	-	-	0.0	-	189	185	-	24278	93%	4%	3%
OLA051	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-57	-53	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	33	2707	0	-57	-53	2.0	11	189	184	185	24278	93%	4%	3%
OLA052	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	2667	0	-	-	0.0	-	189	185	-	24278	93%	4%	3%
OLA053	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-64	-60	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	2667	0	-64	-60	2.0	19	189	184	185	24278	93%	4%	3%
OLA054	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	35	2616	0	-75	-70	2.0	12	189	184	186	24278	93%	4%	3%
OLA055	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	36	2606	0	-	-	0.0	-	189	185	-	24278	93%	4%	3%
OLA056	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-76	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	35	2566	0	-76	-72	2.0	13	189	185	186	24278	93%	4%	3%
OLA057	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	37	2553	0	-	-	0.0	-	189	185	-	24278	93%	4%	3%

OLA058	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-76	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	32	2512	0	-76	-71	2.0	10	189	185	186	24278	93%	4%	3%
OLA059	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	2492	0	-	-	0.0	-	189	185	-	24278	93%	4%	3%
OLA060	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-76	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	37	2462	0	-76	-71	1.8	15	189	186	186	24278	93%	4%	3%
OLA061	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	35	2418	0	-	-	0.0	-	189	184	-	24278	93%	4%	3%
OLA062	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	30	2406	0	-75	-70	1.8	7	189	186	185	24278	93%	4%	3%
OLA063	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	17	2362	0	-	-	0.0	-	189	185	-	24278	93%	4%	3%
OLA064	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-74	-69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	52	2367	0	-74	-69	1.8	6	189	186	185	24278	93%	4%	3%
OLA065	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	2287	0	-	-	0.0	-	189	183	-	24278	93%	4%	3%
OLA066	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	2232	0	-	-	0.0	-	189	183	-	24278	93%	4%	3%
OLA067	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-67	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	2203	0	-73	-67	1.8	14	189	181	182	24278	93%	4%	3%
OLA068	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	2153	0	-	-	0.0	-	189	180	-	24278	93%	4%	3%
OLA069	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-72	-66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	59	2135	0	-72	-66	1.8	31	189	181	180	24278	93%	4%	3%
OLA070	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-72	-66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	2086	0	-72	-66	1.8	17	189	179	178	24278	93%	4%	3%
OLA071	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	2067	0	-	-	0.0	-	189	178	-	24278	93%	4%	3%
OLA072	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	2003	0	-	-	0.0	-	189	177	-	24278	93%	4%	3%
OLA073	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-72	-65	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	2006	0	-72	-65	1.9	10	189	177	177	24278	93%	4%	3%
OLA074	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	1924	0	-	-	0.0	-	189	176	-	24278	93%	4%	3%
OLA075	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-71	-63	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	68	1929	0	-	-	0.0	-	189	175	-	24278	93%	4%	3%
OLA076	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	78	1867	0	-	-	0.0	-	189	175	-	24278	93%	4%	3%
OLA077	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	87	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	1621	0	87	90	6.0	3	189	174	174	24278	93%	4%	3%
OLA078	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-84	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	72	1625	0	-84	-75	6.0	3	189	172	172	24278	93%	4%	3%
OLA079	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	36	1540	0	-	-	0.0	-	189	175	-	24278	93%	4%	3%
OLA080	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-74	-65	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	31	1551	0	-	-	0.0	-	189	174	-	24278	93%	4%	3%
OLA081	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	1489	0	-	-	0.0	-	189	175	-	24278	93%	4%	3%
OLA082	66	2.6%	2	Manual	1	Typical Asphalt or Concrete	-69	-55	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	1257	0	-69	-55	1.8	15	189	181	181	24278	93%	4%	3%
OLA083	66	2.6%	2	Manual	1	Typical Asphalt or Concrete	-72	-58	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	1212	0	-72	-58	2.0	13	189	182	182	24278	93%	4%	3%
OLA084	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-78	-62	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	1166	0	-78	-62	1.6	18	189	183	182	24278	93%	4%	3%
OLA085	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	34	1056	0	-90	-79	2.6	8	189	182	181	24278	93%	4%	3%
OLA086	66	3.8%	2	Manual	1	Typical Asphalt or Concrete	-78	70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	77	77	0	13	70	2.0	19	190	193	194	24278	93%	4%	3%
OLA087	66	3.8%	2	Manual	1	Typical Asphalt or Concrete	-80	74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	61	0	52	74	2.0	55	192	194	194	24278	93%	4%	3%
OLA088	66	3.8%	2	Manual	1	Typical Asphalt or Concrete	-74	72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	84	84	0	40	72	6.0	21	193	194	194	24278	93%	4%	3%
OLA089	66	3.8%	2	Manual	1	Typical Asphalt or Concrete	-52	79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	45	0	-52	40	3.0	3	204	205	205	24278	93%	4%	3%
OLA090	66	3.8%	2	Manual	1	Typical Asphalt or Concrete	-22	77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	81	81	0	-	-	0.0	-	204	205	-	24278	93%	4%	3%
OLA091	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	83	84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	349	0	-	-	0.0	-	204	203	-	24278	93%	4%	3%
OLA092	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	85	86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	492	0	-	-	0.0	-	204	203	-	24278	93%	4%	3%
OLA093	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	85	86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	591	0	85	86	1.7	17	204	202	201	24278	93%	4%	3%
OLA094	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	72	73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	762	0	-	-	0.0	-	204	202	-	24278	93%	4%	3%
OLA095	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	64	66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	73	832	0	-	-	0.0	-	204	202	-	24278	93%	4%	3%
OLA096	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	91	831	0	-	-	0.0	-	204	202	-	24278	93%	4%	3%
OLA097	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	58	62	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	33	883	0	58	62	1.8	5	204	202	201	24278	93%	4%	3%
OLA098	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	57	61	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	927	0	57	61	1.8	4	204	202	202	24278	93%	4%	3%
OLA099	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	59	65	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	47	1055	0	-	-	0.0	-	204	201	-	24278	93%	4%	3%
OLA100	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	1505	0	-	-	0.0	-	204	202	-	24278	93%	4%	3%
OLA101	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	1576	0	-	-	0.0	-	204	201	-	24278	93%	4%	3%
OLA102	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	69	1784	0	-	-	0.0	-	204	198	-	24278	93%	4%	3%
OLA103	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	62	1952	0	-	-	0.0	-	204	197	-	24278	93%	4%	3%
OLA104	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-72	-66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	91	2145	0	-	-	0.0	-	204	196	-	24278	93%	4%	3%

Start of Construction - 2023 S05_SBa Kennedy Road 14th Avenue Denison Street

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	174	6008	0	-90	-90	2.0	7	204	209	209	26689	93%	4%	3%
OLA002	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	57	5943	0	-	-	0.0	-	204	207	-	26689	93%	4%	3%
OLA003	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	33	5924	0	-	-	0.0	-	204	207	-	26689	93%	4%	3%
OLA004	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	88	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	55	5831	0	-	-	0.0	-	204	207	-	26689	93%	4%	3%
OLA005	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	5788	0	89	89	2.2	5	204	208	207	26689	93%	4%	3%
OLA006	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	5753	0	-	-	0.0	-	204	207	-	26689	93%	4%	3%
OLA007	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	88	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	5757	0	88	88	2.1	5	204	208	207	26689	93%	4%	3%
OLA008	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	5681	0	-	-	0.0	-	204	207	-	26689	93%	4%	3%
OLA009	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	22	5681	0	89	89	2.1	5	204	207	207	26689	93%	4%	3%
OLA010	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	49	5580	0	-	-	0.0	-	204	206	-	26689	93%	4%	3%
OLA011	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	88	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	5588	0	-	-	0.0	-	204	206	-	26689	93%	4%	3%
OLA012	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	5492	0	-	-	0.0	-	204	204	-	26689	93%	4%	3%
OLA013	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	56	5433	0	-	-	0.0	-	204	204	-	26689	93%	4%	3%
OLA014	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	19	5421	0	89	89	2.0	4	204	203	203	26689	93%	4%	3%
OLA015	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	24	5342	0	-	-	0.0	-	204	202	-	26689	93%	4%	3%
OLA016	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	65	5298	0	-	-	0.0	-	204	200	-	26689	93%	4%	3%
OLA017	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	38	5054	0	-	-	0.0	-	204	196	-	26689	93%	4%	3%
OLA018	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	5018	0	-89	-89	1.9	2	204	196	196	26689	93%	4%	3%
OLA019	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	4979	0	-	-	0.0	-	204	197	-	26689	93%	4%	3%
OLA020	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	4884	0	-	-	0.0	-	204	197	-	26689	93%	4%	3%
OLA021	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	-88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	69	4839	0	-	-	0.0	-	204	200	-	26689	93%	4%	3%
OLA022	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	4692	0	-86	-86	9.0	3	204	200	200	26689	93%	4%	3%
OLA023	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	73	4662	0	-	-	0.0	-	204	199	-	26689	93%	4%	3%
OLA024	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	4479	0	-	-	0.0	-	204	193	-	26689	93%	4%	3%
OLA025	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	-87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	37	4414	0	-87	-87	1.8	5	204	191	192	26689	93%	4%	3%
OLA026	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	53	4020	0	89	89	6.0	3	204	183	183	26689	93%	4%	3%
OLA027	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	49	3976	0	-	-	0.0	-	204	185	-	26689	93%	4%	3%
OLA028	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	3942	0	-	-	0.0	-	204	182	-	26689	93%	4%	3%
OLA029	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-82	-81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	55	3917	0	-	-	0.0	-	204	185	-	26689	93%	4%	3%
OLA030	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-77	-77	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	51	3876	0	-	-	0.0	-	204	184	-	26689	93%	4%	3%
OLA031	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	3866	0	-	-	0.0	-	204	182	-	26689	93%	4%	3%
OLA032	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	65	3789	0	-	-	0.0	-	204	181	-	26689	93%	4%	3%
OLA033	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-57	-57	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	3793	0	-	-	0.0	-	204	182	-	26689	93%	4%	3%
OLA034	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	3779	0	-	-	0.0	-	204	182	-	26689	93%	4%	3%
OLA035	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	3708	0	-	-	0.0	-	204	182	-	26689	93%	4%	3%
OLA036	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-45	-45	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	3742	0	-	-	0.0	-	204	182	-	26689	93%	4%	3%
OLA037	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	3671	0	-	-	0.0	-	204	182	-	26689	93%	4%	3%
OLA038	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-35	-35	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	3699	0	-	-	0.0	-	204	182	-	26689	93%	4%	3%
OLA039	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	3636	0	-	-	0.0	-	204	181	-	26689	93%	4%	3%
OLA040	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-26	-25	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	3670	0	-	-	0.0	-	204	183	-	26689	93%	4%	3%
OLA041	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	36	3603	0	-	-	0.0	-	204	181	-	26689	93%	4%	3%
OLA042	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	3596	0	-	-	0.0	-	204	182	-	26689	93%	4%	3%
OLA043	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-19	-19	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	37	3652	0	-19	-19	1.8	12	204	183	182	26689	93%	4%	3%
OLA044	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	3578	0	-	-	0.0	-	204	182	-	26689	93%	4%	3%
OLA045	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	3561	0	-	-	0.0	-	204	183	-	26689	93%	4%	3%
OLA046	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-26	-26	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	3620	0	-	-	0.0	-	204	185	-	26689	93%	4%	3%
OLA047	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	3520	0	-	-	0.0	-	204	183	-	26689	93%	4%	3%
OLA048	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-46	-45	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	3536	0	-46	-45	2.0	10	204	184	184	26689	93%	4%	3%
OLA049	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-52	-51	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	3516	0	-52	-51	2.0	25	204	184	185	26689	93%	4%	3%
OLA050	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	3475	0	-	-	0.0	-	204	185	-	26689	93%	4%	3%
OLA051	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-58	-57	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	3462	0	-58	-57	2.0	11	204	184	185	26689	93%	4%	3%
OLA052	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	3425	0	-	-	0.0	-	204	185	-	26689	93%	4%	3%
OLA053	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-65	-64	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	3419	0	-65	-64	2.0	19	204	184	185	26689	93%	4%	3%
OLA054	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-76	-75	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	3367	0	-76	-75	2.0	12	204	184	186	26689	93%	4%	3%
OLA055	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	36	3362	0	-	-	0.0	-	204	185	-	26689	93%	4%	3%
OLA056	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-78	-76	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	3316	0	-78	-76	2.0	13	204	185	186	26689	93%	4%	3%
OLA057	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	37	3309	0	-	-	0.0	-	204	185	-	26689	93%	4%	3%

OLA058	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-78	-76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	32	3261	0	-78	-76	2.0	10	204	185	186	26689	93%	4%	3%
OLA059	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	3246	0	-	-	0.0	-	204	185	-	26689	93%	4%	3%
OLA060	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	37	3210	0	-77	-76	1.8	15	204	186	186	26689	93%	4%	3%
OLA061	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	35	3171	0	-	-	0.0	-	204	184	-	26689	93%	4%	3%
OLA062	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	30	3153	0	-77	-75	1.8	7	204	186	185	26689	93%	4%	3%
OLA063	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	17	3112	0	-	-	0.0	-	204	185	-	26689	93%	4%	3%
OLA064	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-76	-74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	52	3110	0	-76	-74	1.8	6	204	186	185	26689	93%	4%	3%
OLA065	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	3035	0	-	-	0.0	-	204	183	-	26689	93%	4%	3%
OLA066	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	2980	0	-	-	0.0	-	204	183	-	26689	93%	4%	3%
OLA067	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	2940	0	-75	-73	1.8	14	204	181	182	26689	93%	4%	3%
OLA068	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	2898	0	-	-	0.0	-	204	180	-	26689	93%	4%	3%
OLA069	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	59	2868	0	-75	-72	1.8	31	204	181	180	26689	93%	4%	3%
OLA070	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	2819	0	-75	-72	1.8	17	204	179	178	26689	93%	4%	3%
OLA071	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	2808	0	-	-	0.0	-	204	178	-	26689	93%	4%	3%
OLA072	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	2742	0	-	-	0.0	-	204	177	-	26689	93%	4%	3%
OLA073	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	2736	0	-75	-72	1.9	10	204	177	177	26689	93%	4%	3%
OLA074	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	2661	0	-	-	0.0	-	204	176	-	26689	93%	4%	3%
OLA075	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	68	2652	0	-	-	0.0	-	204	175	-	26689	93%	4%	3%
OLA076	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-80	-77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	78	2588	0	-	-	0.0	-	204	175	-	26689	93%	4%	3%
OLA077	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	84	87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	2355	0	84	87	6.0	3	204	174	174	26689	93%	4%	3%
OLA078	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	72	2345	0	-87	-84	6.0	3	204	172	172	26689	93%	4%	3%
OLA079	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	36	2274	0	-	-	0.0	-	204	175	-	26689	93%	4%	3%
OLA080	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	31	2274	0	-77	-76	1.7	30	204	174	174	26689	93%	4%	3%
OLA081	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	2224	0	-	-	0.0	-	204	175	-	26689	93%	4%	3%
OLA082	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	1944	0	-73	-69	1.8	15	204	181	181	26689	93%	4%	3%
OLA083	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	1897	0	-77	-72	2.0	13	204	182	182	26689	93%	4%	3%
OLA084	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-82	-78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	1844	0	-82	-78	1.6	18	204	183	182	26689	93%	4%	3%
OLA085	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	34	1731	0	-	-	0.0	-	204	182	-	26689	93%	4%	3%
OLA086	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	-78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	77	355	0	-	-	0.0	-	204	193	-	26689	93%	4%	3%
OLA087	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	315	0	-	-	0.0	-	204	194	-	26689	93%	4%	3%
OLA088	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-85	-74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	84	295	0	-	-	0.0	-	204	194	-	26689	93%	4%	3%
OLA089	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-52	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	73	0	-55	-52	3.0	3	204	205	205	26689	93%	4%	3%
OLA090	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-84	-22	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	81	88	0	-	-	0.0	-	204	205	-	26689	93%	4%	3%
OLA091	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	49	0	-45	45	3.0	3	203	203	203	26689	93%	4%	3%
OLA092	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-78	86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	38	0	-78	-30	3.0	3	202	203	203	26689	93%	4%	3%
OLA093	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-65	86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	41	0	-33	86	1.7	17	201	202	201	26689	93%	4%	3%
OLA094	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	52	73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	91	0	-	-	0.0	-	201	202	-	26689	93%	4%	3%
OLA095	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	56	66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	73	158	0	-	-	0.0	-	201	202	-	26689	93%	4%	3%
OLA096	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	91	201	0	-	-	0.0	-	201	202	-	26689	93%	4%	3%
OLA097	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	62	70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	33	208	0	62	70	1.8	5	201	202	201	26689	93%	4%	3%
OLA098	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	61	67	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	251	0	61	67	1.8	4	201	202	202	26689	93%	4%	3%
OLA099	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	65	76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	47	390	0	-	-	0.0	-	201	201	-	26689	93%	4%	3%
OLA100	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	883	0	-	-	0.0	-	201	202	-	26689	93%	4%	3%
OLA101	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	955	0	-	-	0.0	-	201	201	-	26689	93%	4%	3%
OLA102	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	69	1174	0	-	-	0.0	-	201	198	-	26689	93%	4%	3%
OLA103	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-64	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	62	1333	0	-	-	0.0	-	201	197	-	26689	93%	4%	3%
OLA104	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-66	-58	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	91	1517	0	-	-	0.0	-	201	196	-	26689	93%	4%	3%

Start of Construction - 2023 S05_SBb Kennedy Road 14th Avenue Denison Street

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	174	6686	0	-90	-89	2.0	7	201	209	209	26689	93%	4%	3%
OLA002	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	57	6621	0	-	-	0.0	-	201	207	-	26689	93%	4%	3%
OLA003	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	33	6602	0	89	89	2.0	4	201	207	206	26689	93%	4%	3%
OLA004	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	55	6509	0	-	-	0.0	-	201	207	-	26689	93%	4%	3%
OLA005	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	6466	0	89	90	2.2	5	201	208	207	26689	93%	4%	3%
OLA006	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	6430	0	-	-	0.0	-	201	207	-	26689	93%	4%	3%
OLA007	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	88	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	6434	0	88	89	2.1	5	201	208	207	26689	93%	4%	3%
OLA008	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	6359	0	-	-	0.0	-	201	207	-	26689	93%	4%	3%
OLA009	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	22	6358	0	89	90	2.1	5	201	207	207	26689	93%	4%	3%
OLA010	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	49	6258	0	-	-	0.0	-	201	206	-	26689	93%	4%	3%
OLA011	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	88	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	6265	0	-	-	0.0	-	201	206	-	26689	93%	4%	3%
OLA012	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	6170	0	-	-	0.0	-	201	204	-	26689	93%	4%	3%
OLA013	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	56	6111	0	-	-	0.0	-	201	204	-	26689	93%	4%	3%
OLA014	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	19	6098	0	89	90	2.0	4	201	203	203	26689	93%	4%	3%
OLA015	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	24	6019	0	-	-	0.0	-	201	202	-	26689	93%	4%	3%
OLA016	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	65	5975	0	-	-	0.0	-	201	200	-	26689	93%	4%	3%
OLA017	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	38	5732	0	-89	-89	1.9	7	201	196	196	26689	93%	4%	3%
OLA018	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	5696	0	-89	-89	1.9	2	201	196	196	26689	93%	4%	3%
OLA019	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	5656	0	-	-	0.0	-	201	197	-	26689	93%	4%	3%
OLA020	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	5562	0	-89	-88	2.0	8	201	197	197	26689	93%	4%	3%
OLA021	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	-88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	69	5516	0	-	-	0.0	-	201	200	-	26689	93%	4%	3%
OLA022	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	5370	0	-86	-86	9.0	3	201	200	200	26689	93%	4%	3%
OLA023	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	73	5340	0	-	-	0.0	-	201	199	-	26689	93%	4%	3%
OLA024	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	5157	0	-	-	0.0	-	201	193	-	26689	93%	4%	3%
OLA025	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	-87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	37	5091	0	-87	-87	1.8	5	201	191	192	26689	93%	4%	3%
OLA026	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	53	4697	0	89	89	6.0	3	201	183	183	26689	93%	4%	3%
OLA027	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	49	4654	0	-	-	0.0	-	201	185	-	26689	93%	4%	3%
OLA028	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	4620	0	-	-	0.0	-	201	182	-	26689	93%	4%	3%
OLA029	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-82	-81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	55	4595	0	-	-	0.0	-	201	185	-	26689	93%	4%	3%
OLA030	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-77	-76	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	51	4553	0	-	-	0.0	-	201	184	-	26689	93%	4%	3%
OLA031	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	4543	0	-	-	0.0	-	201	182	-	26689	93%	4%	3%
OLA032	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	65	4467	0	-	-	0.0	-	201	181	-	26689	93%	4%	3%
OLA033	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-57	-57	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	4471	0	-	-	0.0	-	201	182	-	26689	93%	4%	3%
OLA034	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	4457	0	-	-	0.0	-	201	182	-	26689	93%	4%	3%
OLA035	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	4385	0	-	-	0.0	-	201	182	-	26689	93%	4%	3%
OLA036	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-45	-45	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	4420	0	-	-	0.0	-	201	182	-	26689	93%	4%	3%
OLA037	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	4348	0	-	-	0.0	-	201	182	-	26689	93%	4%	3%
OLA038	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-35	-35	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	4376	0	-	-	0.0	-	201	182	-	26689	93%	4%	3%
OLA039	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	4313	0	-	-	0.0	-	201	181	-	26689	93%	4%	3%
OLA040	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-26	-26	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	4347	0	-	-	0.0	-	201	183	-	26689	93%	4%	3%
OLA041	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	36	4280	0	-	-	0.0	-	201	181	-	26689	93%	4%	3%
OLA042	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	4273	0	-	-	0.0	-	201	182	-	26689	93%	4%	3%
OLA043	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-19	-19	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	37	4329	0	-19	-19	1.8	12	201	183	182	26689	93%	4%	3%
OLA044	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	4254	0	-	-	0.0	-	201	182	-	26689	93%	4%	3%
OLA045	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	4236	0	-	-	0.0	-	201	183	-	26689	93%	4%	3%
OLA046	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-26	-26	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	4295	0	-	-	0.0	-	201	185	-	26689	93%	4%	3%
OLA047	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	4195	0	-	-	0.0	-	201	183	-	26689	93%	4%	3%
OLA048	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-46	-46	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	4209	0	-46	-46	2.0	10	201	184	184	26689	93%	4%	3%
OLA049	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-52	-51	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	4188	0	-52	-51	2.0	25	201	184	185	26689	93%	4%	3%
OLA050	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	4149	0	-	-	0.0	-	201	185	-	26689	93%	4%	3%
OLA051	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-58	-58	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	4134	0	-58	-58	2.0	11	201	184	185	26689	93%	4%	3%
OLA052	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	4099	0	-	-	0.0	-	201	185	-	26689	93%	4%	3%
OLA053	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-65	-65	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	4090	0	-65	-65	2.0	19	201	184	185	26689	93%	4%	3%
OLA054	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-76	-76	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	4038	0	-76	-76	2.0	12	201	184	186	26689	93%	4%	3%
OLA055	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	36	4035	0	-	-	0.0	-	201	185	-	26689	93%	4%	3%
OLA056	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-78	-78	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	3986	0	-78	-78	2.0	13	201	185	186	26689	93%	4%	3%
OLA057	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	37	3981	0	-	-	0.0	-	201	185	-	26689	93%	4%	3%

OLA058	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-78	-77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	32	3932	0	-78	-77	2.0	10	201	185	186	26689	93%	4%	3%
OLA059	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	3918	0	-	-	0.0	-	201	185	-	26689	93%	4%	3%
OLA060	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	37	3879	0	-77	-77	1.8	15	201	186	186	26689	93%	4%	3%
OLA061	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	35	3842	0	-	-	0.0	-	201	184	-	26689	93%	4%	3%
OLA062	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	30	3822	0	-77	-77	1.8	7	201	186	185	26689	93%	4%	3%
OLA063	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	17	3783	0	-	-	0.0	-	201	185	-	26689	93%	4%	3%
OLA064	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-76	-76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	52	3779	0	-76	-76	1.8	6	201	186	185	26689	93%	4%	3%
OLA065	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	3705	0	-	-	0.0	-	201	183	-	26689	93%	4%	3%
OLA066	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	3650	0	-	-	0.0	-	201	183	-	26689	93%	4%	3%
OLA067	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	3607	0	-75	-75	1.8	14	201	181	182	26689	93%	4%	3%
OLA068	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	3568	0	-	-	0.0	-	201	180	-	26689	93%	4%	3%
OLA069	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	59	3534	0	-75	-74	1.8	31	201	181	180	26689	93%	4%	3%
OLA070	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	3485	0	-75	-74	1.8	17	201	179	178	26689	93%	4%	3%
OLA071	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	3477	0	-	-	0.0	-	201	178	-	26689	93%	4%	3%
OLA072	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	3410	0	-	-	0.0	-	201	177	-	26689	93%	4%	3%
OLA073	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	3401	0	-75	-74	1.9	10	201	177	177	26689	93%	4%	3%
OLA074	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	3329	0	-	-	0.0	-	201	176	-	26689	93%	4%	3%
OLA075	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	68	3315	0	-	-	0.0	-	201	175	-	26689	93%	4%	3%
OLA076	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-80	-80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	78	3250	0	-	-	0.0	-	201	175	-	26689	93%	4%	3%
OLA077	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	84	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	3023	0	84	85	6.0	3	201	174	174	26689	93%	4%	3%
OLA078	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	72	3008	0	-87	-87	6.0	3	201	172	172	26689	93%	4%	3%
OLA079	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	36	2942	0	-	-	0.0	-	201	175	-	26689	93%	4%	3%
OLA080	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	31	2939	0	-77	-77	1.7	30	201	174	174	26689	93%	4%	3%
OLA081	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	2892	0	-	-	0.0	-	201	175	-	26689	93%	4%	3%
OLA082	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	2600	0	-73	-73	1.8	15	201	181	181	26689	93%	4%	3%
OLA083	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	2553	0	-77	-76	2.0	13	201	182	182	26689	93%	4%	3%
OLA084	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-82	-82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	2499	0	-82	-82	1.6	18	201	183	182	26689	93%	4%	3%
OLA085	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	34	2387	0	-	-	0.0	-	201	182	-	26689	93%	4%	3%
OLA086	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	-84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	77	1028	0	-	-	0.0	-	201	193	-	26689	93%	4%	3%
OLA087	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	989	0	-	-	0.0	-	201	194	-	26689	93%	4%	3%
OLA088	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-85	-84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	84	965	0	-	-	0.0	-	201	194	-	26689	93%	4%	3%
OLA089	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	736	0	-	-	0.0	-	201	205	-	26689	93%	4%	3%
OLA090	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-84	-83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	81	714	0	-	-	0.0	-	201	205	-	26689	93%	4%	3%
OLA091	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	336	0	-	-	0.0	-	201	203	-	26689	93%	4%	3%
OLA092	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-78	-77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	191	0	-78	-77	3.0	3	201	203	203	26689	93%	4%	3%
OLA093	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-71	-65	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	98	0	-	-	0.0	-	201	202	-	26689	93%	4%	3%
OLA094	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-50	52	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	53	0	-50	46	2.0	12	200	202	201	26689	93%	4%	3%
OLA095	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-9	56	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	73	73	0	-9	15	6.0	3	200	202	202	26689	93%	4%	3%
OLA096	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-32	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	91	105	0	-	-	0.0	-	200	202	-	26689	93%	4%	3%
OLA097	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	59	70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	33	66	0	59	70	1.8	5	200	202	201	26689	93%	4%	3%
OLA098	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	57	67	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	111	0	57	67	1.8	4	200	202	202	26689	93%	4%	3%
OLA099	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	76	78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	47	247	0	-	-	0.0	-	200	201	-	26689	93%	4%	3%
OLA100	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	745	0	-90	-88	2.2	7	200	202	202	26689	93%	4%	3%
OLA101	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	818	0	-90	-88	2.1	6	200	201	201	26689	93%	4%	3%
OLA102	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-76	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	69	1037	0	-	-	0.0	-	200	198	-	26689	93%	4%	3%
OLA103	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-64	-62	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	62	1194	0	-	-	0.0	-	200	197	-	26689	93%	4%	3%
OLA104	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-58	-57	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	91	1376	0	-	-	0.0	-	200	196	-	26689	93%	4%	3%

Start of Construction - 2023 S05_SBc Kennedy Road 14th Avenue Denison Street

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	174	6825	0	-89	-89	2.0	7	200	209	209	26689	93%	4%	3%
OLA002	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	57	6759	0	-	-	0.0	-	200	207	-	26689	93%	4%	3%
OLA003	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	33	6740	0	89	90	2.0	4	200	207	206	26689	93%	4%	3%
OLA004	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	55	6646	0	-	-	0.0	-	200	207	-	26689	93%	4%	3%
OLA005	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	6604	0	90	90	2.2	5	200	208	207	26689	93%	4%	3%
OLA006	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	6569	0	-90	-90	2.1	6	200	207	207	26689	93%	4%	3%
OLA007	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	6573	0	89	90	2.1	5	200	208	207	26689	93%	4%	3%
OLA008	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	6498	0	-90	-90	2.0	12	200	207	207	26689	93%	4%	3%
OLA009	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	22	6497	0	90	90	2.1	5	200	207	207	26689	93%	4%	3%
OLA010	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	49	6397	0	-90	-90	1.9	8	200	206	206	26689	93%	4%	3%
OLA011	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	6403	0	-	-	0.0	-	200	206	-	26689	93%	4%	3%
OLA012	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	6308	0	-90	-89	2.4	7	200	204	204	26689	93%	4%	3%
OLA013	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	56	6249	0	-	-	0.0	-	200	204	-	26689	93%	4%	3%
OLA014	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	19	6236	0	90	90	2.0	4	200	203	203	26689	93%	4%	3%
OLA015	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	24	6157	0	-	-	0.0	-	200	202	-	26689	93%	4%	3%
OLA016	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	65	6113	0	-	-	0.0	-	200	200	-	26689	93%	4%	3%
OLA017	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	38	5870	0	-89	-88	1.9	7	200	196	196	26689	93%	4%	3%
OLA018	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	5835	0	-89	-88	1.9	2	200	196	196	26689	93%	4%	3%
OLA019	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	5795	0	-	-	0.0	-	200	197	-	26689	93%	4%	3%
OLA020	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	-87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	5700	0	-88	-87	2.0	8	200	197	197	26689	93%	4%	3%
OLA021	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	-87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	69	5655	0	-	-	0.0	-	200	200	-	26689	93%	4%	3%
OLA022	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	-85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	5508	0	-86	-85	9.0	3	200	200	200	26689	93%	4%	3%
OLA023	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	73	5478	0	-	-	0.0	-	200	199	-	26689	93%	4%	3%
OLA024	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	5295	0	-	-	0.0	-	200	193	-	26689	93%	4%	3%
OLA025	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	37	5230	0	-87	-86	1.8	5	200	191	192	26689	93%	4%	3%
OLA026	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	53	4835	0	89	90	6.0	3	200	183	183	26689	93%	4%	3%
OLA027	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	49	4793	0	-90	-90	2.5	26	200	185	184	26689	93%	4%	3%
OLA028	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	4758	0	-	-	0.0	-	200	182	-	26689	93%	4%	3%
OLA029	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-81	-80	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	55	4734	0	-	-	0.0	-	200	185	-	26689	93%	4%	3%
OLA030	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-76	-75	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	51	4692	0	-	-	0.0	-	200	184	-	26689	93%	4%	3%
OLA031	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	4681	0	-	-	0.0	-	200	182	-	26689	93%	4%	3%
OLA032	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	65	4605	0	-	-	0.0	-	200	181	-	26689	93%	4%	3%
OLA033	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-57	-56	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	4610	0	-	-	0.0	-	200	182	-	26689	93%	4%	3%
OLA034	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	4595	0	-	-	0.0	-	200	182	-	26689	93%	4%	3%
OLA035	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	4524	0	-	-	0.0	-	200	182	-	26689	93%	4%	3%
OLA036	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-45	-44	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	4559	0	-	-	0.0	-	200	182	-	26689	93%	4%	3%
OLA037	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	4487	0	-	-	0.0	-	200	182	-	26689	93%	4%	3%
OLA038	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-35	-33	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	4516	0	-	-	0.0	-	200	182	-	26689	93%	4%	3%
OLA039	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	4453	0	-	-	0.0	-	200	181	-	26689	93%	4%	3%
OLA040	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-26	-24	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	4487	0	-	-	0.0	-	200	183	-	26689	93%	4%	3%
OLA041	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	36	4420	0	-	-	0.0	-	200	181	-	26689	93%	4%	3%
OLA042	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	4413	0	-	-	0.0	-	200	182	-	26689	93%	4%	3%
OLA043	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-19	-18	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	37	4469	0	-19	-18	1.8	12	200	183	182	26689	93%	4%	3%
OLA044	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	4395	0	-	-	0.0	-	200	182	-	26689	93%	4%	3%
OLA045	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	4377	0	-	-	0.0	-	200	183	-	26689	93%	4%	3%
OLA046	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-26	-25	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	4436	0	-	-	0.0	-	200	185	-	26689	93%	4%	3%
OLA047	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	4336	0	-	-	0.0	-	200	183	-	26689	93%	4%	3%
OLA048	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-46	-45	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	4351	0	-46	-45	2.0	10	200	184	184	26689	93%	4%	3%
OLA049	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-51	-50	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	4330	0	-51	-50	2.0	25	200	184	185	26689	93%	4%	3%
OLA050	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	4291	0	-	-	0.0	-	200	185	-	26689	93%	4%	3%
OLA051	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-58	-57	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	4276	0	-58	-57	2.0	11	200	184	185	26689	93%	4%	3%
OLA052	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	4240	0	-	-	0.0	-	200	185	-	26689	93%	4%	3%
OLA053	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-65	-64	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	4232	0	-65	-64	2.0	19	200	184	185	26689	93%	4%	3%
OLA054	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-76	-75	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	4180	0	-76	-75	2.0	12	200	184	186	26689	93%	4%	3%
OLA055	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	36	4177	0	-	-	0.0	-	200	185	-	26689	93%	4%	3%
OLA056	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-78	-77	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	4128	0	-78	-77	2.0	13	200	185	186	26689	93%	4%	3%
OLA057	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	37	4123	0	-	-	0.0	-	200	185	-	26689	93%	4%	3%

OLA058	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	32	4074	0	-77	-76	2.0	10	200	185	186	26689	93%	4%	3%
OLA059	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	4059	0	-	-	0.0	-	200	185	-	26689	93%	4%	3%
OLA060	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	37	4022	0	-77	-76	1.8	15	200	186	186	26689	93%	4%	3%
OLA061	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	35	3984	0	-	-	0.0	-	200	184	-	26689	93%	4%	3%
OLA062	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	30	3965	0	-77	-76	1.8	7	200	186	185	26689	93%	4%	3%
OLA063	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	17	3925	0	-	-	0.0	-	200	185	-	26689	93%	4%	3%
OLA064	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-76	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	52	3921	0	-76	-75	1.8	6	200	186	185	26689	93%	4%	3%
OLA065	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	3848	0	-	-	0.0	-	200	183	-	26689	93%	4%	3%
OLA066	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	3792	0	-	-	0.0	-	200	183	-	26689	93%	4%	3%
OLA067	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	3749	0	-75	-74	1.8	14	200	181	182	26689	93%	4%	3%
OLA068	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	3710	0	-	-	0.0	-	200	180	-	26689	93%	4%	3%
OLA069	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-74	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	59	3677	0	-74	-73	1.8	31	200	181	180	26689	93%	4%	3%
OLA070	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-74	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	3628	0	-74	-73	1.8	17	200	179	178	26689	93%	4%	3%
OLA071	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	3619	0	-	-	0.0	-	200	178	-	26689	93%	4%	3%
OLA072	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	3552	0	-	-	0.0	-	200	177	-	26689	93%	4%	3%
OLA073	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-74	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	3544	0	-74	-73	1.9	10	200	177	177	26689	93%	4%	3%
OLA074	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	3471	0	-	-	0.0	-	200	176	-	26689	93%	4%	3%
OLA075	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	68	3458	0	-	-	0.0	-	200	175	-	26689	93%	4%	3%
OLA076	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-80	-79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	78	3393	0	-	-	0.0	-	200	175	-	26689	93%	4%	3%
OLA077	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	85	86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	3166	0	85	86	6.0	3	200	174	174	26689	93%	4%	3%
OLA078	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	72	3151	0	-87	-86	6.0	3	200	172	172	26689	93%	4%	3%
OLA079	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	36	3084	0	-	-	0.0	-	200	175	-	26689	93%	4%	3%
OLA080	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	31	3082	0	-77	-76	1.7	30	200	174	174	26689	93%	4%	3%
OLA081	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	3035	0	-	-	0.0	-	200	175	-	26689	93%	4%	3%
OLA082	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	2743	0	-73	-71	1.8	15	200	181	181	26689	93%	4%	3%
OLA083	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-76	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	2696	0	-76	-75	2.0	13	200	182	182	26689	93%	4%	3%
OLA084	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-82	-81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	2643	0	-82	-81	1.6	18	200	183	182	26689	93%	4%	3%
OLA085	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	34	2530	0	-	-	0.0	-	200	182	-	26689	93%	4%	3%
OLA086	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-84	-81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	77	1169	0	-	-	0.0	-	200	193	-	26689	93%	4%	3%
OLA087	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-85	-81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	1129	0	-	-	0.0	-	200	194	-	26689	93%	4%	3%
OLA088	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-84	-80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	84	1107	0	-	-	0.0	-	200	194	-	26689	93%	4%	3%
OLA089	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-85	-81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	877	0	-	-	0.0	-	200	205	-	26689	93%	4%	3%
OLA090	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-83	-79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	81	856	0	-	-	0.0	-	200	205	-	26689	93%	4%	3%
OLA091	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-79	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	479	0	-	-	0.0	-	200	203	-	26689	93%	4%	3%
OLA092	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	334	0	-77	-70	3.0	3	200	203	203	26689	93%	4%	3%
OLA093	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-71	-66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	241	0	-	-	0.0	-	200	202	-	26689	93%	4%	3%
OLA094	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-66	-50	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	94	0	-66	-50	2.0	12	200	202	201	26689	93%	4%	3%
OLA095	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-64	-9	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	73	75	0	-64	-9	6.0	3	200	202	202	26689	93%	4%	3%
OLA096	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-32	59	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	91	91	0	-	-	0.0	-	200	202	-	26689	93%	4%	3%
OLA097	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	59	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	33	33	0	-77	59	1.8	5	200	202	201	26689	93%	4%	3%
OLA098	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-63	57	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	57	0	-63	57	1.8	4	200	202	202	26689	93%	4%	3%
OLA099	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	38	78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	47	59	0	-	-	0.0	-	201	201	-	26689	93%	4%	3%
OLA100	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-88	-87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	540	0	-88	-87	2.2	7	201	202	202	26689	93%	4%	3%
OLA101	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-88	-87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	613	0	-88	-87	2.1	6	201	201	201	26689	93%	4%	3%
OLA102	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	69	832	0	-	-	0.0	-	201	198	-	26689	93%	4%	3%
OLA103	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-62	-62	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	62	989	0	-	-	0.0	-	201	197	-	26689	93%	4%	3%
OLA104	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-57	-57	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	91	1171	0	-	-	0.0	-	201	196	-	26689	93%	4%	3%

Start of Construction - 2023 S06_SBa Kennedy Road Denison Street Steeles Avenue

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	174	7005	0	-89	-86	2.0	7	201	209	209	22365	98%	2%	0%
OLA002	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	57	6938	0	-	-	0.0	-	201	207	-	22365	98%	2%	0%
OLA003	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	33	6917	0	90	90	2.0	4	201	207	206	22365	98%	2%	0%
OLA004	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	55	6823	0	-	-	0.0	-	201	207	-	22365	98%	2%	0%
OLA005	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	6781	0	-	-	0.0	-	201	208	-	22365	98%	2%	0%
OLA006	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	6747	0	-90	-87	2.1	6	201	207	207	22365	98%	2%	0%
OLA007	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	6750	0	90	90	2.1	5	201	208	207	22365	98%	2%	0%
OLA008	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	6676	0	-90	-87	2.0	12	201	207	207	22365	98%	2%	0%
OLA009	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	22	6674	0	-	-	0.0	-	201	207	-	22365	98%	2%	0%
OLA010	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	49	6575	0	-90	-87	1.9	8	201	206	206	22365	98%	2%	0%
OLA011	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	6580	0	-	-	0.0	-	201	206	-	22365	98%	2%	0%
OLA012	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	6486	0	-89	-86	2.4	7	201	204	204	22365	98%	2%	0%
OLA013	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	56	6428	0	-	-	0.0	-	201	204	-	22365	98%	2%	0%
OLA014	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	19	6414	0	-	-	0.0	-	201	203	-	22365	98%	2%	0%
OLA015	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	24	6334	0	-	-	0.0	-	201	202	-	22365	98%	2%	0%
OLA016	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	65	6289	0	-	-	0.0	-	201	200	-	22365	98%	2%	0%
OLA017	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	-85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	38	6048	0	-88	-85	1.9	7	201	196	196	22365	98%	2%	0%
OLA018	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	-84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	6013	0	-88	-84	1.9	2	201	196	196	22365	98%	2%	0%
OLA019	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	-84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	5974	0	-	-	0.0	-	201	197	-	22365	98%	2%	0%
OLA020	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	-84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	5879	0	-87	-84	2.0	8	201	197	197	22365	98%	2%	0%
OLA021	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	-84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	69	5834	0	-	-	0.0	-	201	200	-	22365	98%	2%	0%
OLA022	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-85	-81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	5687	0	-85	-81	9.0	3	201	200	200	22365	98%	2%	0%
OLA023	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	73	5654	0	-	-	0.0	-	201	199	-	22365	98%	2%	0%
OLA024	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	5472	0	-	-	0.0	-	201	193	-	22365	98%	2%	0%
OLA025	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	-82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	37	5408	0	-86	-82	1.8	5	201	191	192	22365	98%	2%	0%
OLA026	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	53	5012	0	-	-	0.0	-	201	183	-	22365	98%	2%	0%
OLA027	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	49	4972	0	-90	-86	2.5	26	201	185	184	22365	98%	2%	0%
OLA028	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	4935	0	-	-	0.0	-	201	182	-	22365	98%	2%	0%
OLA029	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-80	-76	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	55	4913	0	-	-	0.0	-	201	185	-	22365	98%	2%	0%
OLA030	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-75	-71	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	51	4871	0	-	-	0.0	-	201	184	-	22365	98%	2%	0%
OLA031	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	4858	0	-	-	0.0	-	201	182	-	22365	98%	2%	0%
OLA032	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	65	4782	0	-	-	0.0	-	201	181	-	22365	98%	2%	0%
OLA033	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-56	-52	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	4790	0	-	-	0.0	-	201	182	-	22365	98%	2%	0%
OLA034	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	4774	0	-	-	0.0	-	201	182	-	22365	98%	2%	0%
OLA035	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	4703	0	-	-	0.0	-	201	182	-	22365	98%	2%	0%
OLA036	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-44	-40	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	4740	0	-	-	0.0	-	201	182	-	22365	98%	2%	0%
OLA037	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	4667	0	-	-	0.0	-	201	182	-	22365	98%	2%	0%
OLA038	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-33	-29	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	4697	0	-	-	0.0	-	201	182	-	22365	98%	2%	0%
OLA039	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	4634	0	-	-	0.0	-	201	181	-	22365	98%	2%	0%
OLA040	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-24	-21	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	4670	0	-	-	0.0	-	201	183	-	22365	98%	2%	0%
OLA041	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	36	4602	0	-	-	0.0	-	201	181	-	22365	98%	2%	0%
OLA042	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	4596	0	-	-	0.0	-	201	182	-	22365	98%	2%	0%
OLA043	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-18	-14	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	37	4653	0	-18	-14	1.8	12	201	183	182	22365	98%	2%	0%
OLA044	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	4578	0	-	-	0.0	-	201	182	-	22365	98%	2%	0%
OLA045	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	4562	0	-	-	0.0	-	201	183	-	22365	98%	2%	0%
OLA046	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-25	-21	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	4622	0	-	-	0.0	-	201	185	-	22365	98%	2%	0%
OLA047	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	4522	0	-	-	0.0	-	201	183	-	22365	98%	2%	0%
OLA048	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-45	-41	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	4539	0	-45	-41	2.0	10	201	184	184	22365	98%	2%	0%
OLA049	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-50	-47	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	4518	0	-50	-47	2.0	25	201	184	185	22365	98%	2%	0%
OLA050	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	4478	0	-	-	0.0	-	201	185	-	22365	98%	2%	0%
OLA051	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-57	-54	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	4464	0	-57	-54	2.0	11	201	184	185	22365	98%	2%	0%
OLA052	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	4428	0	-	-	0.0	-	201	185	-	22365	98%	2%	0%
OLA053	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-64	-61	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	4422	0	-64	-61	2.0	19	201	184	185	22365	98%	2%	0%
OLA054	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-75	-71	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	4370	0	-75	-71	2.0	12	201	184	186	22365	98%	2%	0%
OLA055	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	36	4365	0	-	-	0.0	-	201	185	-	22365	98%	2%	0%
OLA056	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-77	-73	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	4318	0	-77	-73	2.0	13	201	185	186	22365	98%	2%	0%
OLA057	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	37	4311	0	-	-	0.0	-	201	185	-	22365	98%	2%	0%

OLA058	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-76	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	32	4264	0	-76	-73	2.0	10	201	185	186	22365	98%	2%	0%
OLA059	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	4248	0	-	-	0.0	-	201	185	-	22365	98%	2%	0%
OLA060	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-76	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	37	4212	0	-76	-73	1.8	15	201	186	186	22365	98%	2%	0%
OLA061	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	35	4173	0	-	-	0.0	-	201	184	-	22365	98%	2%	0%
OLA062	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-76	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	30	4155	0	-76	-72	1.8	7	201	186	185	22365	98%	2%	0%
OLA063	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	17	4115	0	-	-	0.0	-	201	185	-	22365	98%	2%	0%
OLA064	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	52	4112	0	-75	-72	1.8	6	201	186	185	22365	98%	2%	0%
OLA065	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	4037	0	-	-	0.0	-	201	183	-	22365	98%	2%	0%
OLA066	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	3982	0	-	-	0.0	-	201	183	-	22365	98%	2%	0%
OLA067	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-74	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	3941	0	-74	-70	1.8	14	201	181	182	22365	98%	2%	0%
OLA068	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	3900	0	-	-	0.0	-	201	180	-	22365	98%	2%	0%
OLA069	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	59	3870	0	-73	-70	1.8	31	201	181	180	22365	98%	2%	0%
OLA070	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	3820	0	-73	-70	1.8	17	201	179	178	22365	98%	2%	0%
OLA071	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	3810	0	-	-	0.0	-	201	178	-	22365	98%	2%	0%
OLA072	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	3744	0	-	-	0.0	-	201	177	-	22365	98%	2%	0%
OLA073	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	3737	0	-73	-70	1.9	10	201	177	177	22365	98%	2%	0%
OLA074	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	3662	0	-	-	0.0	-	201	176	-	22365	98%	2%	0%
OLA075	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-72	-69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	68	3652	0	-	-	0.0	-	201	175	-	22365	98%	2%	0%
OLA076	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-79	-76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	78	3587	0	-	-	0.0	-	201	175	-	22365	98%	2%	0%
OLA077	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	86	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	3357	0	86	90	6.0	3	201	174	174	22365	98%	2%	0%
OLA078	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	-82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	72	3345	0	-86	-82	6.0	3	201	172	172	22365	98%	2%	0%
OLA079	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	36	3275	0	-	-	0.0	-	201	175	-	22365	98%	2%	0%
OLA080	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	31	3275	0	-	-	0.0	-	201	174	-	22365	98%	2%	0%
OLA081	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	3226	0	-	-	0.0	-	201	175	-	22365	98%	2%	0%
OLA082	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-71	-68	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	2939	0	-71	-68	1.8	15	201	181	181	22365	98%	2%	0%
OLA083	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	2892	0	-75	-72	2.0	13	201	182	182	22365	98%	2%	0%
OLA084	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	2839	0	-81	-77	1.6	18	201	183	182	22365	98%	2%	0%
OLA085	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	34	2726	0	-	-	0.0	-	201	182	-	22365	98%	2%	0%
OLA086	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	77	1357	0	-	-	0.0	-	201	193	-	22365	98%	2%	0%
OLA087	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	1317	0	-	-	0.0	-	201	194	-	22365	98%	2%	0%
OLA088	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-80	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	84	1296	0	-	-	0.0	-	201	194	-	22365	98%	2%	0%
OLA089	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	1066	0	-	-	0.0	-	201	205	-	22365	98%	2%	0%
OLA090	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-79	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	81	1049	0	-	-	0.0	-	201	205	-	22365	98%	2%	0%
OLA091	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-65	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	675	0	-	-	0.0	-	201	203	-	22365	98%	2%	0%
OLA092	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-70	-63	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	533	0	-70	-63	3.0	3	201	203	203	22365	98%	2%	0%
OLA093	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-66	-62	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	444	0	-	-	0.0	-	201	202	-	22365	98%	2%	0%
OLA094	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-71	-66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	294	0	-67	-66	2.0	12	201	202	201	22365	98%	2%	0%
OLA095	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-64	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	73	240	0	-77	-64	6.0	3	201	202	202	22365	98%	2%	0%
OLA096	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	59	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	91	174	0	-	-	0.0	-	201	202	-	22365	98%	2%	0%
OLA097	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	33	153	0	-87	-77	1.8	5	201	202	201	22365	98%	2%	0%
OLA098	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-63	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	126	0	-87	-63	1.8	4	201	202	202	22365	98%	2%	0%
OLA099	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-88	38	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	47	47	0	-88	-60	24.0	3	201	201	201	22365	98%	2%	0%
OLA100	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	34	0	-87	81	2.2	7	202	202	202	22365	98%	2%	0%
OLA101	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	31	0	-87	78	2.1	6	201	201	201	22365	98%	2%	0%
OLA102	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-72	-25	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	69	80	0	-	-	0.0	-	197	198	-	22365	98%	2%	0%
OLA103	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-62	-61	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	62	208	0	-	-	0.0	-	197	197	-	22365	98%	2%	0%
OLA104	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-65	-57	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	91	396	0	-	-	0.0	-	197	196	-	22365	98%	2%	0%

Start of Construction - 2023 S06_SBb Kennedy Road Denison Street Steeles Avenue

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	174	7700	0	-86	-86	2.0	7	197	209	209	22365	98%	2%	0%
OLA002	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	57	7627	0	-	-	0.0	-	197	207	-	22365	98%	2%	0%
OLA003	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	33	7602	0	-	-	0.0	-	197	207	-	22365	98%	2%	0%
OLA004	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	55	7507	0	-	-	0.0	-	197	207	-	22365	98%	2%	0%
OLA005	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	7466	0	-	-	0.0	-	197	208	-	22365	98%	2%	0%
OLA006	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	7436	0	-87	-86	2.1	6	197	207	207	22365	98%	2%	0%
OLA007	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	7435	0	-	-	0.0	-	197	208	-	22365	98%	2%	0%
OLA008	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	-87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	7365	0	-87	-87	2.0	12	197	207	207	22365	98%	2%	0%
OLA009	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	22	7360	0	-	-	0.0	-	197	207	-	22365	98%	2%	0%
OLA010	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	49	7265	0	-87	-86	1.9	8	197	206	206	22365	98%	2%	0%
OLA011	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	7263	0	-	-	0.0	-	197	206	-	22365	98%	2%	0%
OLA012	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	7176	0	-86	-86	2.4	7	197	204	204	22365	98%	2%	0%
OLA013	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	56	7118	0	-	-	0.0	-	197	204	-	22365	98%	2%	0%
OLA014	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	19	7100	0	-	-	0.0	-	197	203	-	22365	98%	2%	0%
OLA015	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	24	7021	0	-	-	0.0	-	197	202	-	22365	98%	2%	0%
OLA016	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	65	6974	0	-	-	0.0	-	197	200	-	22365	98%	2%	0%
OLA017	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-85	-84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	38	6739	0	-85	-84	1.9	7	197	196	196	22365	98%	2%	0%
OLA018	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-84	-84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	6704	0	-84	-84	1.9	2	197	196	196	22365	98%	2%	0%
OLA019	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-84	-84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	6666	0	-	-	0.0	-	197	197	-	22365	98%	2%	0%
OLA020	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-84	-84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	6570	0	-84	-84	2.0	8	197	197	197	22365	98%	2%	0%
OLA021	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-84	-83	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	69	6528	0	-	-	0.0	-	197	200	-	22365	98%	2%	0%
OLA022	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-81	-81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	6380	0	-81	-81	9.0	3	197	200	200	22365	98%	2%	0%
OLA023	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	73	6340	0	-	-	0.0	-	197	199	-	22365	98%	2%	0%
OLA024	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	6161	0	-	-	0.0	-	197	193	-	22365	98%	2%	0%
OLA025	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-82	-82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	37	6102	0	-82	-82	1.8	5	197	191	192	22365	98%	2%	0%
OLA026	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	53	5700	0	-	-	0.0	-	197	183	-	22365	98%	2%	0%
OLA027	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	-85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	49	5667	0	-86	-85	2.5	26	197	185	184	22365	98%	2%	0%
OLA028	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	5625	0	-	-	0.0	-	197	182	-	22365	98%	2%	0%
OLA029	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-76	-76	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	55	5609	0	-	-	0.0	-	197	185	-	22365	98%	2%	0%
OLA030	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-71	-71	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	51	5568	0	-	-	0.0	-	197	184	-	22365	98%	2%	0%
OLA031	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	5549	0	-	-	0.0	-	197	182	-	22365	98%	2%	0%
OLA032	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	65	5473	0	-	-	0.0	-	197	181	-	22365	98%	2%	0%
OLA033	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-52	-52	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	5488	0	-	-	0.0	-	197	182	-	22365	98%	2%	0%
OLA034	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	5467	0	-	-	0.0	-	197	182	-	22365	98%	2%	0%
OLA035	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	5400	0	-	-	0.0	-	197	182	-	22365	98%	2%	0%
OLA036	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-40	-40	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	5441	0	-	-	0.0	-	197	182	-	22365	98%	2%	0%
OLA037	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	5367	0	-	-	0.0	-	197	182	-	22365	98%	2%	0%
OLA038	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-29	-29	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	5402	0	-	-	0.0	-	197	182	-	22365	98%	2%	0%
OLA039	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	5336	0	-	-	0.0	-	197	181	-	22365	98%	2%	0%
OLA040	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-21	-20	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	5378	0	-	-	0.0	-	197	183	-	22365	98%	2%	0%
OLA041	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	36	5309	0	-	-	0.0	-	197	181	-	22365	98%	2%	0%
OLA042	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	5305	0	-	-	0.0	-	197	182	-	22365	98%	2%	0%
OLA043	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-14	-14	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	37	5364	0	-14	-14	1.8	12	197	183	182	22365	98%	2%	0%
OLA044	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	5291	0	-	-	0.0	-	197	182	-	22365	98%	2%	0%
OLA045	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	5277	0	-	-	0.0	-	197	183	-	22365	98%	2%	0%
OLA046	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-21	-21	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	5339	0	-	-	0.0	-	197	185	-	22365	98%	2%	0%
OLA047	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	5240	0	-	-	0.0	-	197	183	-	22365	98%	2%	0%
OLA048	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-41	-41	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	5263	0	-41	-41	2.0	10	197	184	184	22365	98%	2%	0%
OLA049	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-47	-47	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	5245	0	-47	-47	2.0	25	197	184	185	22365	98%	2%	0%
OLA050	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	5201	0	-	-	0.0	-	197	185	-	22365	98%	2%	0%
OLA051	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-54	-54	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	5192	0	-54	-54	2.0	11	197	184	185	22365	98%	2%	0%
OLA052	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	5153	0	-	-	0.0	-	197	185	-	22365	98%	2%	0%
OLA053	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-61	-61	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	5152	0	-	-	0.0	-	197	184	-	22365	98%	2%	0%
OLA054	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-71	-71	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	5100	0	-	-	0.0	-	197	184	-	22365	98%	2%	0%
OLA055	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	36	5091	0	-	-	0.0	-	197	185	-	22365	98%	2%	0%
OLA056	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-73	-73	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	5050	0	-	-	0.0	-	197	185	-	22365	98%	2%	0%
OLA057	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	37	5039	0	-	-	0.0	-	197	185	-	22365	98%	2%	0%

OLA058	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	32	4996	0	-	-	0.0	-	197	185	-	22365	98%	2%	0%
OLA059	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	4977	0	-	-	0.0	-	197	185	-	22365	98%	2%	0%
OLA060	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	37	4945	0	-	-	0.0	-	197	186	-	22365	98%	2%	0%
OLA061	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	35	4903	0	-	-	0.0	-	197	184	-	22365	98%	2%	0%
OLA062	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-72	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	30	4889	0	-	-	0.0	-	197	186	-	22365	98%	2%	0%
OLA063	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	17	4846	0	-	-	0.0	-	197	185	-	22365	98%	2%	0%
OLA064	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-72	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	52	4848	0	-	-	0.0	-	197	186	-	22365	98%	2%	0%
OLA065	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	4770	0	-	-	0.0	-	197	183	-	22365	98%	2%	0%
OLA066	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	4715	0	-	-	0.0	-	197	183	-	22365	98%	2%	0%
OLA067	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-70	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	4681	0	-70	-70	1.8	14	197	181	182	22365	98%	2%	0%
OLA068	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	4635	0	-	-	0.0	-	197	180	-	22365	98%	2%	0%
OLA069	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-70	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	59	4610	0	-70	-70	1.8	31	197	181	180	22365	98%	2%	0%
OLA070	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-70	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	4561	0	-70	-70	1.8	17	197	179	178	22365	98%	2%	0%
OLA071	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	4547	0	-	-	0.0	-	197	178	-	22365	98%	2%	0%
OLA072	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	4481	0	-	-	0.0	-	197	177	-	22365	98%	2%	0%
OLA073	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-70	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	4479	0	-70	-70	1.9	10	197	177	177	22365	98%	2%	0%
OLA074	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	4401	0	-	-	0.0	-	197	176	-	22365	98%	2%	0%
OLA075	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-69	-69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	68	4397	0	-	-	0.0	-	197	175	-	22365	98%	2%	0%
OLA076	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-76	-76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	78	4333	0	-	-	0.0	-	197	175	-	22365	98%	2%	0%
OLA077	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	4096	0	90	90	6.0	3	197	174	174	22365	98%	2%	0%
OLA078	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-82	-82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	72	4090	0	-82	-82	6.0	3	197	172	172	22365	98%	2%	0%
OLA079	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	36	4014	0	-	-	0.0	-	197	175	-	22365	98%	2%	0%
OLA080	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-72	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	31	4018	0	-	-	0.0	-	197	174	-	22365	98%	2%	0%
OLA081	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	3964	0	-	-	0.0	-	197	175	-	22365	98%	2%	0%
OLA082	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-68	-68	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	3692	0	-68	-68	1.8	15	197	181	181	22365	98%	2%	0%
OLA083	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-72	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	3645	0	-72	-72	2.0	13	197	182	182	22365	98%	2%	0%
OLA084	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	3593	0	-77	-77	1.6	18	197	183	182	22365	98%	2%	0%
OLA085	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	34	3480	0	-	-	0.0	-	197	182	-	22365	98%	2%	0%
OLA086	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	77	2102	0	-	-	0.0	-	197	193	-	22365	98%	2%	0%
OLA087	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-74	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	2061	0	-	-	0.0	-	197	194	-	22365	98%	2%	0%
OLA088	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	84	2044	0	-	-	0.0	-	197	194	-	22365	98%	2%	0%
OLA089	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-72	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	1817	0	-	-	0.0	-	197	205	-	22365	98%	2%	0%
OLA090	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-71	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	81	1806	0	-	-	0.0	-	197	205	-	22365	98%	2%	0%
OLA091	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-67	-65	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	1444	0	-	-	0.0	-	197	203	-	22365	98%	2%	0%
OLA092	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-65	-63	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	1308	0	-65	-63	3.0	3	197	203	203	22365	98%	2%	0%
OLA093	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-64	-62	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	1223	0	-	-	0.0	-	197	202	-	22365	98%	2%	0%
OLA094	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-74	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	1073	0	-	-	0.0	-	197	202	-	22365	98%	2%	0%
OLA095	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	73	1013	0	-80	-77	6.0	3	197	202	202	22365	98%	2%	0%
OLA096	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	82	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	91	934	0	-	-	0.0	-	197	202	-	22365	98%	2%	0%
OLA097	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	33	931	0	-90	-87	1.8	5	197	202	201	22365	98%	2%	0%
OLA098	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	895	0	-90	-87	1.8	4	197	202	202	22365	98%	2%	0%
OLA099	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	47	745	0	-90	-88	24.0	3	197	201	201	22365	98%	2%	0%
OLA100	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	76	81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	245	0	76	81	2.2	7	197	202	202	22365	98%	2%	0%
OLA101	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	74	78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	173	0	74	78	2.1	6	197	201	201	22365	98%	2%	0%
OLA102	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-25	64	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	69	69	0	50	64	6.0	3	197	198	198	22365	98%	2%	0%
OLA103	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-61	35	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	62	62	0	-	-	0.0	-	196	197	-	22365	98%	2%	0%
OLA104	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-65	-56	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	91	170	0	-	-	0.0	-	196	196	-	22365	98%	2%	0%

Start of Construction - 2023 S06_SBc Kennedy Road Denison Street Steeles Avenue

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	174	7928	0	-86	-86	2.0	7	196	209	209	22365	98%	2%	0%
OLA002	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	57	7854	0	-	-	0.0	-	196	207	-	22365	98%	2%	0%
OLA003	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	33	7829	0	-	-	0.0	-	196	207	-	22365	98%	2%	0%
OLA004	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	55	7734	0	-	-	0.0	-	196	207	-	22365	98%	2%	0%
OLA005	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	7694	0	-	-	0.0	-	196	208	-	22365	98%	2%	0%
OLA006	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	7663	0	-87	-86	2.1	6	196	207	207	22365	98%	2%	0%
OLA007	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	7662	0	-	-	0.0	-	196	208	-	22365	98%	2%	0%
OLA008	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	-87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	7592	0	-87	-87	2.0	12	196	207	207	22365	98%	2%	0%
OLA009	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	22	7587	0	-	-	0.0	-	196	207	-	22365	98%	2%	0%
OLA010	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	49	7492	0	-87	-86	1.9	8	196	206	206	22365	98%	2%	0%
OLA011	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	7490	0	-	-	0.0	-	196	206	-	22365	98%	2%	0%
OLA012	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	7404	0	-86	-86	2.4	7	196	204	204	22365	98%	2%	0%
OLA013	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	56	7346	0	-	-	0.0	-	196	204	-	22365	98%	2%	0%
OLA014	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	19	7327	0	-	-	0.0	-	196	203	-	22365	98%	2%	0%
OLA015	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	24	7248	0	-	-	0.0	-	196	202	-	22365	98%	2%	0%
OLA016	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	65	7201	0	-	-	0.0	-	196	200	-	22365	98%	2%	0%
OLA017	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-85	-84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	38	6967	0	-85	-84	1.9	7	196	196	196	22365	98%	2%	0%
OLA018	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-84	-84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	6932	0	-84	-84	1.9	2	196	196	196	22365	98%	2%	0%
OLA019	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-84	-84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	6894	0	-	-	0.0	-	196	197	-	22365	98%	2%	0%
OLA020	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-84	-84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	6798	0	-84	-84	2.0	8	196	197	197	22365	98%	2%	0%
OLA021	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-84	-83	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	69	6756	0	-	-	0.0	-	196	200	-	22365	98%	2%	0%
OLA022	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-81	-81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	6608	0	-81	-81	9.0	3	196	200	200	22365	98%	2%	0%
OLA023	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	73	6568	0	-	-	0.0	-	196	199	-	22365	98%	2%	0%
OLA024	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	6388	0	-	-	0.0	-	196	193	-	22365	98%	2%	0%
OLA025	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-82	-82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	37	6330	0	-82	-82	1.8	5	196	191	192	22365	98%	2%	0%
OLA026	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	53	5928	0	-	-	0.0	-	196	183	-	22365	98%	2%	0%
OLA027	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	-85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	49	5896	0	-86	-85	2.5	26	196	185	184	22365	98%	2%	0%
OLA028	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	5853	0	-	-	0.0	-	196	182	-	22365	98%	2%	0%
OLA029	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-76	-76	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	55	5838	0	-	-	0.0	-	196	185	-	22365	98%	2%	0%
OLA030	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-72	-71	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	51	5797	0	-	-	0.0	-	196	184	-	22365	98%	2%	0%
OLA031	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	5777	0	-	-	0.0	-	196	182	-	22365	98%	2%	0%
OLA032	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	65	5701	0	-	-	0.0	-	196	181	-	22365	98%	2%	0%
OLA033	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-52	-52	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	5717	0	-	-	0.0	-	196	182	-	22365	98%	2%	0%
OLA034	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	5695	0	-	-	0.0	-	196	182	-	22365	98%	2%	0%
OLA035	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	5628	0	-	-	0.0	-	196	182	-	22365	98%	2%	0%
OLA036	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-40	-40	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	5669	0	-	-	0.0	-	196	182	-	22365	98%	2%	0%
OLA037	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	5596	0	-	-	0.0	-	196	182	-	22365	98%	2%	0%
OLA038	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-30	-29	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	5631	0	-	-	0.0	-	196	182	-	22365	98%	2%	0%
OLA039	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	5565	0	-	-	0.0	-	196	181	-	22365	98%	2%	0%
OLA040	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-21	-20	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	5607	0	-	-	0.0	-	196	183	-	22365	98%	2%	0%
OLA041	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	36	5538	0	-	-	0.0	-	196	181	-	22365	98%	2%	0%
OLA042	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	5534	0	-	-	0.0	-	196	182	-	22365	98%	2%	0%
OLA043	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-15	-14	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	37	5593	0	-15	-14	1.8	12	196	183	182	22365	98%	2%	0%
OLA044	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	5520	0	-	-	0.0	-	196	182	-	22365	98%	2%	0%
OLA045	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	5506	0	-	-	0.0	-	196	183	-	22365	98%	2%	0%
OLA046	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-22	-21	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	5568	0	-	-	0.0	-	196	185	-	22365	98%	2%	0%
OLA047	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	5470	0	-	-	0.0	-	196	183	-	22365	98%	2%	0%
OLA048	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-42	-41	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	5493	0	-42	-41	2.0	10	196	184	184	22365	98%	2%	0%
OLA049	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-48	-47	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	5475	0	-48	-47	2.0	25	196	184	185	22365	98%	2%	0%
OLA050	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	5430	0	-	-	0.0	-	196	185	-	22365	98%	2%	0%
OLA051	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-54	-54	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	5422	0	-54	-54	2.0	11	196	184	185	22365	98%	2%	0%
OLA052	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	5382	0	-	-	0.0	-	196	185	-	22365	98%	2%	0%
OLA053	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-61	-61	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	5381	0	-61	-61	2.0	19	196	184	185	22365	98%	2%	0%
OLA054	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-72	-71	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	5330	0	-72	-71	2.0	12	196	184	186	22365	98%	2%	0%
OLA055	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	36	5321	0	-	-	0.0	-	196	185	-	22365	98%	2%	0%
OLA056	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-74	-73	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	5279	0	-74	-73	2.0	13	196	185	186	22365	98%	2%	0%
OLA057	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	37	5268	0	-	-	0.0	-	196	185	-	22365	98%	2%	0%

OLA058	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-74	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	32	5226	0	-74	-73	2.0	10	196	185	186	22365	98%	2%	0%
OLA059	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	5206	0	-	-	0.0	-	196	185	-	22365	98%	2%	0%
OLA060	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	37	5175	0	-73	-73	1.8	15	196	186	186	22365	98%	2%	0%
OLA061	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	35	5132	0	-	-	0.0	-	196	184	-	22365	98%	2%	0%
OLA062	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	30	5119	0	-73	-72	1.8	7	196	186	185	22365	98%	2%	0%
OLA063	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	17	5076	0	-	-	0.0	-	196	185	-	22365	98%	2%	0%
OLA064	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-72	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	52	5078	0	-72	-72	1.8	6	196	186	185	22365	98%	2%	0%
OLA065	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	5000	0	-	-	0.0	-	196	183	-	22365	98%	2%	0%
OLA066	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	4945	0	-	-	0.0	-	196	183	-	22365	98%	2%	0%
OLA067	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-71	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	4910	0	-71	-70	1.8	14	196	181	182	22365	98%	2%	0%
OLA068	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	4865	0	-	-	0.0	-	196	180	-	22365	98%	2%	0%
OLA069	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-71	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	59	4840	0	-71	-70	1.8	31	196	181	180	22365	98%	2%	0%
OLA070	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-71	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	4791	0	-71	-70	1.8	17	196	179	178	22365	98%	2%	0%
OLA071	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	4776	0	-	-	0.0	-	196	178	-	22365	98%	2%	0%
OLA072	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	4711	0	-	-	0.0	-	196	177	-	22365	98%	2%	0%
OLA073	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-71	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	4709	0	-71	-70	1.9	10	196	177	177	22365	98%	2%	0%
OLA074	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	4630	0	-	-	0.0	-	196	176	-	22365	98%	2%	0%
OLA075	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-70	-69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	68	4626	0	-	-	0.0	-	196	175	-	22365	98%	2%	0%
OLA076	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	78	4562	0	-	-	0.0	-	196	175	-	22365	98%	2%	0%
OLA077	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	4325	0	89	90	6.0	3	196	174	174	22365	98%	2%	0%
OLA078	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-83	-82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	72	4319	0	-83	-82	6.0	3	196	172	172	22365	98%	2%	0%
OLA079	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	36	4244	0	-	-	0.0	-	196	175	-	22365	98%	2%	0%
OLA080	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	31	4248	0	-	-	0.0	-	196	174	-	22365	98%	2%	0%
OLA081	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	4193	0	-	-	0.0	-	196	175	-	22365	98%	2%	0%
OLA082	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-69	-68	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	3921	0	-69	-68	1.8	15	196	181	181	22365	98%	2%	0%
OLA083	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	3874	0	-73	-72	2.0	13	196	182	182	22365	98%	2%	0%
OLA084	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-79	-77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	3822	0	-79	-77	1.6	18	196	183	182	22365	98%	2%	0%
OLA085	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	34	3708	0	-	-	0.0	-	196	182	-	22365	98%	2%	0%
OLA086	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	77	2331	0	-	-	0.0	-	196	193	-	22365	98%	2%	0%
OLA087	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-76	-74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	2290	0	-	-	0.0	-	196	194	-	22365	98%	2%	0%
OLA088	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	84	2272	0	-	-	0.0	-	196	194	-	22365	98%	2%	0%
OLA089	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	2046	0	-	-	0.0	-	196	205	-	22365	98%	2%	0%
OLA090	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-74	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	81	2033	0	-	-	0.0	-	196	205	-	22365	98%	2%	0%
OLA091	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-70	-67	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	1669	0	-	-	0.0	-	196	203	-	22365	98%	2%	0%
OLA092	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-69	-65	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	1532	0	-69	-65	3.0	3	196	203	203	22365	98%	2%	0%
OLA093	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-69	-64	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	1445	0	-	-	0.0	-	196	202	-	22365	98%	2%	0%
OLA094	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-80	-74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	1291	0	-	-	0.0	-	196	202	-	22365	98%	2%	0%
OLA095	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	73	1228	0	-	-	0.0	-	196	202	-	22365	98%	2%	0%
OLA096	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	77	82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	91	1159	0	-	-	0.0	-	196	202	-	22365	98%	2%	0%
OLA097	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	33	1148	0	-	-	0.0	-	196	202	-	22365	98%	2%	0%
OLA098	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	1110	0	-	-	0.0	-	196	202	-	22365	98%	2%	0%
OLA099	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	47	962	0	-	-	0.0	-	196	201	-	22365	98%	2%	0%
OLA100	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	68	76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	473	0	68	76	2.2	7	196	202	202	22365	98%	2%	0%
OLA101	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	67	74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	402	0	67	74	2.1	6	196	201	201	22365	98%	2%	0%
OLA102	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	64	66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	69	217	0	64	66	6.0	3	196	198	198	22365	98%	2%	0%
OLA103	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	35	72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	62	76	0	65	72	6.0	3	196	197	197	22365	98%	2%	0%
OLA104	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-56	49	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	91	91	0	40	49	6.0	3	194	196	196	22365	98%	2%	0%

Start of Construction - 2023 AS01 Major Mackenzie Drive @ Kennedy Road

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	81	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	125	125	0	-90	85	2.0	10	209	209	209	12047	97%	2%	2%
OLA002	81	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	177	177	0	-90	85	2.0	6	206	207	207	12047	97%	2%	2%
OLA003	81	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	187	187	0	-89	85	6.0	3	204	207	207	12047	97%	2%	2%
OLA004	81	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	83	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	278	278	0	0	83	6.0	3	204	207	207	12047	97%	2%	2%
OLA005	81	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	83	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	322	322	0	-87	83	6.0	3	204	208	208	12047	97%	2%	2%
OLA006	81	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	364	364	0	-86	82	6.0	14	205	207	207	12047	97%	2%	2%
OLA007	81	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	353	353	0	-86	82	2.1	4	204	208	207	12047	97%	2%	2%
OLA008	81	0.0%	2 Manual	1 Typical Asphalt or Concrete	-85	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	435	435	0	-85	55	6.0	3	205	207	207	12047	97%	2%	2%
OLA009	81	0.0%	2 Manual	1 Typical Asphalt or Concrete	-85	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	430	430	0	-85	81	6.0	3	204	207	207	12047	97%	2%	2%

Start of Construction - 2023 AS02 16th Avenue @ Kennedy Road

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA024	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-84	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	415	415	0	-84	-30	3.0	3	184	193	193	25952	96%	2%	2%
OLA025	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-85	83	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	341	341	0	-85	83	6.0	3	186	191	191	25952	96%	2%	2%
OLA026	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	41	0	-	-	0.0	-	183	183	-	25952	96%	2%	2%
OLA027	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	93	93	0	20	88	6.0	3	184	185	185	25952	96%	2%	2%
OLA028	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	120	120	0	-90	-40	6.0	3	184	182	182	25952	96%	2%	2%
OLA029	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	153	153	0	0	87	6.0	3	184	185	185	25952	96%	2%	2%
OLA030	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	195	195	0	0	45	6.0	14	184	184	184	25952	96%	2%	2%
OLA031	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	196	196	0	-90	0	6.0	3	184	182	182	25952	96%	2%	2%
OLA032	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	83	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	272	272	0	-88	0	6.0	3	184	181	181	25952	96%	2%	2%
OLA033	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	279	279	0	30	85	6.0	3	185	182	182	25952	96%	2%	2%
OLA034	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	83	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	285	285	0	-	-	0.0	-	184	182	-	25952	96%	2%	2%
OLA035	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-85	83	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	360	360	0	-75	40	6.0	3	184	182	182	25952	96%	2%	2%
OLA036	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-85	84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	335	335	0	0	84	6.0	3	185	182	182	25952	96%	2%	2%
OLA037	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-84	83	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	403	403	0	-	-	0.0	-	185	182	-	25952	96%	2%	2%
OLA038	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-84	83	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	385	385	0	-15	83	6.0	3	186	182	182	25952	96%	2%	2%
OLA039	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-83	82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	443	443	0	-	-	0.0	-	185	181	-	25952	96%	2%	2%
OLA040	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-84	82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	422	422	0	-15	82	6.0	3	187	183	183	25952	96%	2%	2%
OLA041	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-83	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	484	484	0	-83	-55	6.0	3	186	181	181	25952	96%	2%	2%
OLA042	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-83	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	496	496	0	-	-	0.0	-	186	182	-	25952	96%	2%	2%
OLA043	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-84	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	449	449	0	-30	81	6.0	3	187	183	183	25952	96%	2%	2%
OLA046	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-83	80	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	499	499	0	-	-	0.0	-	188	185	-	25952	96%	2%	2%

Start of Construction - 2023 AS03 Highway 7 @ Kennedy Road

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA075	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-81	83	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	480	480	0	-81	0	6.0	3	173	175	175	34224	92%	4%	4%
OLA076	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-82	83	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	415	415	0	-82	-25	6.0	3	174	175	175	34224	92%	4%	4%
OLA077	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	234	234	0	-35	80	6.0	3	174	174	174	34224	92%	4%	4%
OLA078	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	194	194	0	-15	85	6.0	3	174	172	172	34224	92%	4%	4%
OLA079	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	157	157	0	30	86	6.0	50	174	175	175	34224	92%	4%	4%
OLA080	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	136	136	0	-89	17	1.7	30	174	174	174	34224	92%	4%	4%
OLA081	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	112	112	0	-20	87	3.0	26	175	175	175	34224	92%	4%	4%
OLA082	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	225	225	0	30	84	6.0	3	174	181	181	34224	92%	4%	4%
OLA083	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	83	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	271	271	0	-87	5	1.8	50	174	182	182	34224	92%	4%	4%
OLA084	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	325	325	0	-87	6	1.8	56	174	183	182	34224	92%	4%	4%
OLA085	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-85	80	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	427	427	0	-85	35	2.6	8	174	182	181	34224	92%	4%	4%

Start of Construction - 2023 AS04 Highway 407 @ Kennedy Road

POR	Posted Speed Limit (km/hr)	Road Grade (%)		Road Grade Mode		Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)		Topography		Wood Depth	No of Row of Houses	Density of 1st Row		Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA086	100	0.0%	2	Manual	1	Typical Asphalt or Concrete	-80	82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	449	449	0	-70	30	2.0	19	180	193	194	9600	85%	9%	7%
OLA087	100	0.0%	2	Manual	1	Typical Asphalt or Concrete	-80	82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	485	485	0	-30	30	2.0	55	180	194	194	9600	85%	9%	7%

Start of Construction - 2023 AS05 14th Avenue @ Kennedy Road

POR	Posted Speed Limit (km/hr)	Road Grade (%)		Road Grade Mode		Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)		Topography		Wood Depth	No of Row of Houses	Density of 1st Row		Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA086	69	0.0%	2	Manual	1	Typical Asphalt or Concrete	-85	80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	337	337	0	-85	15	6.0	3	204	193	193	27811	94%	3%	3%
OLA087	69	0.0%	2	Manual	1	Typical Asphalt or Concrete	-85	81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	301	301	0	-85	-30	6.0	3	204	194	194	27811	94%	3%	3%
OLA088	69	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	273	273	0	-86	-20	6.0	3	204	194	194	27811	94%	3%	3%
OLA089	69	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	52	52	0	45	88	6.0	3	204	205	205	27811	94%	3%	3%
OLA090	69	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	22	0	-90	-50	6.0	3	204	205	205	27811	94%	3%	3%
OLA091	69	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	348	348	0	-81	-40	6.0	3	204	203	203	27811	94%	3%	3%
OLA092	69	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	491	491	0	-	-	0.0	-	204	203	-	27811	94%	3%	3%

Start of Construction - 2023 AS06 Denison Street @ Kennedy Road

POR	Posted Speed Limit (km/hr)	Road Grade (%)		Road Grade Mode		Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)		Topography		Wood Depth	No of Row of Houses	Density of 1st Row		Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA093	69	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	42	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	440	440	0	-65	10	6.0	29	201	202	201	6315	99%	1%	0%
OLA094	69	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	52	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	292	292	0	-	-	0.0	-	201	202	-	6315	99%	1%	0%
OLA095	69	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	55	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	230	230	0	10	55	6.0	3	201	202	202	6315	99%	1%	0%
OLA096	69	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	149	149	0	-	-	0.0	-	202	202	-	6315	99%	1%	0%
OLA097	69	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	58	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	149	149	0	-90	58	1.8	5	201	202	201	6315	99%	1%	0%
OLA098	69	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	112	112	0	-90	66	1.8	4	201	202	202	6315	99%	1%	0%
OLA099	69	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	37	37	0	69	74	24.0	26	201	201	201	6315	99%	1%	0%

Start of Construction - 2023 AS07 Steeles Avenue @ Kennedy Road

POR	Posted Speed Limit (km/hr)	Road Grade (%)		Road Grade Mode		Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)		Topography		Wood Depth	No of Row of Houses	Density of 1st Row		Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA102	50	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	464	464	0	-15	81	6.0	3	193	198	198	36562	99%	0%	0%
OLA103	50	0.0%	2	Manual	1	Typical Asphalt or Concrete	-84	84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	301	301	0	-10	84	6.0	3	193	197	197	36562	99%	0%	0%
OLA104	50	0.0%	2	Manual	1	Typical Asphalt or Concrete	-88	88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	108	108	0	-40	40	6.0	3	193	196	196	36562	99%	0%	0%

Start of Construction - 2030 S01_NB Kennedy Road Major Mackenzie Drive 16th Avenue

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	33	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	165	165	0	-86	33	2.0	7	206	209	209	21149	96%	2%	2%
OLA002	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	75	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	48	0	-60	75	6.0	3	206	207	207	21149	96%	2%	2%
OLA003	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	-78	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	42	0	-78	88	2.0	4	206	207	206	21149	96%	2%	2%
OLA004	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	-77	87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	64	64	0	-77	45	6.0	3	206	207	207	21149	96%	2%	2%
OLA005	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	-83	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	37	37	0	-83	88	2.2	5	206	208	207	21149	96%	2%	2%
OLA006	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	31	0	-90	85	2.1	6	207	207	207	21149	96%	2%	2%
OLA007	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	-84	87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	41	0	-84	87	2.1	5	207	208	207	21149	96%	2%	2%
OLA008	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	31	0	-90	86	2.0	12	207	207	207	21149	96%	2%	2%
OLA009	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	-85	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	31	31	0	-85	88	2.1	5	207	207	207	21149	96%	2%	2%
OLA010	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	40	0	-90	86	1.9	8	206	206	206	21149	96%	2%	2%
OLA011	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	-83	86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	71	71	0	-80	-45	9.0	3	206	206	206	21149	96%	2%	2%
OLA012	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	39	0	-89	87	2.4	7	205	204	204	21149	96%	2%	2%
OLA013	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	47	0	-65	86	6.0	3	204	204	204	21149	96%	2%	2%
OLA014	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	28	28	0	-87	88	2.0	4	204	203	203	21149	96%	2%	2%
OLA015	75	2.3%	2 Manual	1 Typical Asphalt or Concrete	-86	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	33	0	-86	89	2.0	6	201	202	202	21149	96%	2%	2%
OLA016	75	2.3%	2 Manual	1 Typical Asphalt or Concrete	-83	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	74	74	0	-	-	0.0	-	200	200	-	21149	96%	2%	2%
OLA017	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	29	29	0	-88	89	1.9	7	195	196	196	21149	96%	2%	2%
OLA018	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	31	0	-87	90	1.9	2	195	196	196	21149	96%	2%	2%
OLA019	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	54	54	0	-60	50	6.0	3	195	197	197	21149	96%	2%	2%
OLA020	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	33	33	0	-86	90	2.0	8	196	197	197	21149	96%	2%	2%
OLA021	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	-84	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	62	0	-60	50	6.0	3	197	200	200	21149	96%	2%	2%
OLA022	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	-82	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	38	0	-82	20	9.0	3	201	200	200	21149	96%	2%	2%
OLA023	75	4.3%	2 Manual	1 Typical Asphalt or Concrete	-87	83	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	83	83	0	-50	50	6.0	3	201	199	199	21149	96%	2%	2%
OLA024	75	4.3%	2 Manual	1 Typical Asphalt or Concrete	-86	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	40	0	-45	45	6.0	3	195	193	193	21149	96%	2%	2%
OLA025	75	4.3%	2 Manual	1 Typical Asphalt or Concrete	-81	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	31	0	-81	90	1.8	5	190	191	192	21149	96%	2%	2%
OLA026	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-38	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	78	0	-	-	0.0	-	184	183	-	21149	96%	2%	2%
OLA027	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	64	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	99	0	-	-	0.0	-	184	185	-	21149	96%	2%	2%
OLA028	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	-71	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	131	0	-	-	0.0	-	184	182	-	21149	96%	2%	2%
OLA029	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	80	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	157	0	-	-	0.0	-	184	185	-	21149	96%	2%	2%
OLA030	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	87	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	198	0	-	-	0.0	-	184	184	-	21149	96%	2%	2%
OLA031	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	-73	-62	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	52	205	0	-	-	0.0	-	184	182	-	21149	96%	2%	2%
OLA032	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	-68	-61	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	72	280	0	-	-	0.0	-	184	181	-	21149	96%	2%	2%
OLA033	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	282	0	-	-	0.0	-	184	182	-	21149	96%	2%	2%
OLA034	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	-63	-63	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	287	0	-	-	0.0	-	184	182	-	21149	96%	2%	2%
OLA035	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	-58	-52	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	46	361	0	-58	-52	6.0	3	184	182	182	21149	96%	2%	2%
OLA036	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	342	0	-	-	0.0	-	184	182	-	21149	96%	2%	2%
OLA037	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	-54	-44	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	405	0	-	-	0.0	-	184	182	-	21149	96%	2%	2%
OLA038	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	400	0	-	-	0.0	-	184	182	-	21149	96%	2%	2%
OLA039	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	-53	-39	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	449	0	-	-	0.0	-	184	181	-	21149	96%	2%	2%
OLA040	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	449	0	-	-	0.0	-	184	183	-	21149	96%	2%	2%
OLA041	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	-46	-29	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	500	0	-	-	0.0	-	184	181	-	21149	96%	2%	2%
OLA042	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	-48	-29	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	518	0	-	-	0.0	-	184	182	-	21149	96%	2%	2%
OLA043	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	493	0	-	-	0.0	-	184	183	-	21149	96%	2%	2%
OLA044	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	-51	-29	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	39	561	0	-44	-29	1.8	9	184	182	182	21149	96%	2%	2%
OLA045	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	-61	-37	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	598	0	-	-	0.0	-	184	183	-	21149	96%	2%	2%
OLA046	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	573	0	-	-	0.0	-	184	185	-	21149	96%	2%	2%
OLA047	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	-73	-49	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	663	0	-73	-49	6.0	11	184	183	183	21149	96%	2%	2%
OLA048	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	719	0	-	-	0.0	-	184	184	-	21149	96%	2%	2%
OLA049	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	83	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	752	0	-	-	0.0	-	184	184	-	21149	96%	2%	2%
OLA050	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-66	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	738	0	-	-	0.0	-	184	185	-	21149	96%	2%	2%
OLA051	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	77	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	805	0	77	84	2.0	11	184	184	185	21149	96%	2%	2%
OLA052	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-73	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	796	0	-	-	0.0	-	184	185	-	21149	96%	2%	2%
OLA053	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	70	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	858	0	70	77	2.0	19	184	184	185	21149	96%	2%	2%
OLA054	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	61	86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	904	0	61	73	2.0	12	184	184	186	21149	96%	2%	2%
OLA055	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	860	0	-	-	0.0	-	184	185	-	21149	96%	2%	2%
OLA056	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	61	84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	952	0	61	75	2.0	13	184	185	186	21149	96%	2%	2%
OLA057	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	910	0	-	-	0.0	-	184	185	-	21149	96%	2%	2%
OLA058	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	63	85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	25	999	0	63	78	2.0	10	184	185	186	21149	96%	2%	2%

OLA059	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	972	0	-	-	0.0	-	184	185	-	21149	96%	2%	2%
OLA060	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	64	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	1051	0	64	85	1.8	15	184	186	186	21149	96%	2%	2%
OLA061	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	1042	0	-	-	0.0	-	184	184	-	21149	96%	2%	2%
OLA062	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	66	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	21	1099	0	66	85	1.8	7	184	186	185	21149	96%	2%	2%
OLA063	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	24	1108	0	-	-	0.0	-	184	185	-	21149	96%	2%	2%
OLA064	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	66	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	1153	0	66	83	1.8	6	184	186	185	21149	96%	2%	2%
OLA065	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	30	1180	0	-	-	0.0	-	184	183	-	21149	96%	2%	2%
OLA066	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	1227	0	-	-	0.0	-	184	183	-	21149	96%	2%	2%
OLA067	75	2.5%	2	Manual	1	Typical Asphalt or Concrete	70	86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	1321	0	70	86	1.8	14	184	181	182	21149	96%	2%	2%
OLA068	75	2.5%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	1311	0	-	-	0.0	-	184	180	-	21149	96%	2%	2%
OLA069	75	2.5%	2	Manual	1	Typical Asphalt or Concrete	71	86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	1392	0	71	86	1.8	31	184	181	180	21149	96%	2%	2%
OLA070	75	2.5%	2	Manual	1	Typical Asphalt or Concrete	72	86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	1432	0	72	86	1.8	17	184	179	178	21149	96%	2%	2%
OLA071	75	2.5%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	1401	0	-	-	0.0	-	184	178	-	21149	96%	2%	2%
OLA072	75	2.5%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	39	1465	0	-	-	0.0	-	184	177	-	21149	96%	2%	2%
OLA073	75	2.5%	2	Manual	1	Typical Asphalt or Concrete	73	86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	1513	0	73	86	1.9	10	184	177	177	21149	96%	2%	2%
OLA074	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	1541	0	-	-	0.0	-	184	176	-	21149	96%	2%	2%
OLA075	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	73	86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	1610	0	-	-	0.0	-	184	175	-	21149	96%	2%	2%
OLA076	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	67	79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	72	1671	0	-	-	0.0	-	184	175	-	21149	96%	2%	2%
OLA077	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	32	1812	0	-	-	0.0	-	184	174	-	21149	96%	2%	2%
OLA078	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	66	75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	64	1866	0	-	-	0.0	-	184	172	-	21149	96%	2%	2%
OLA079	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	1885	0	-	-	0.0	-	184	175	-	21149	96%	2%	2%
OLA080	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	78	86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	23	1915	0	-	-	0.0	-	184	174	-	21149	96%	2%	2%
OLA081	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	65	1927	0	-	-	0.0	-	184	175	-	21149	96%	2%	2%
OLA082	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	80	87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	2275	0	-	-	0.0	-	184	181	-	21149	96%	2%	2%
OLA083	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	77	84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	2318	0	77	84	2.0	13	184	182	182	21149	96%	2%	2%
OLA084	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	72	78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	2372	0	72	78	1.6	18	184	183	182	21149	96%	2%	2%
OLA085	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	54	60	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	2466	0	54	60	2.6	8	184	182	181	21149	96%	2%	2%
OLA086	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	69	3719	0	89	90	2.0	19	184	193	194	21149	96%	2%	2%
OLA087	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	54	3757	0	89	90	2.0	55	184	194	194	21149	96%	2%	2%
OLA088	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	77	3783	0	89	89	6.0	21	184	194	194	21149	96%	2%	2%
OLA089	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	4010	0	-	-	0.0	-	184	205	-	21149	96%	2%	2%
OLA090	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	88	88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	74	4036	0	-	-	0.0	-	184	205	-	21149	96%	2%	2%
OLA091	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	4412	0	-	-	0.0	-	184	203	-	21149	96%	2%	2%
OLA092	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	4557	0	-	-	0.0	-	184	203	-	21149	96%	2%	2%
OLA093	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	4655	0	89	89	1.7	17	184	202	201	21149	96%	2%	2%
OLA094	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	76	76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	4827	0	-	-	0.0	-	184	202	-	21149	96%	2%	2%
OLA095	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	68	68	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	66	4898	0	-	-	0.0	-	184	202	-	21149	96%	2%	2%
OLA096	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	98	4887	0	-	-	0.0	-	184	202	-	21149	96%	2%	2%
OLA097	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	60	60	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	4948	0	60	60	1.8	5	184	202	201	21149	96%	2%	2%
OLA098	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	59	59	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	4993	0	-	-	0.0	-	184	202	-	21149	96%	2%	2%
OLA099	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	59	59	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	5115	0	-	-	0.0	-	184	201	-	21149	96%	2%	2%
OLA100	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	5519	0	-	-	0.0	-	184	202	-	21149	96%	2%	2%
OLA101	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	5585	0	-	-	0.0	-	184	201	-	21149	96%	2%	2%
OLA102	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	76	5770	0	-	-	0.0	-	184	198	-	21149	96%	2%	2%
OLA103	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	-88	-87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	70	5940	0	-	-	0.0	-	184	197	-	21149	96%	2%	2%
OLA104	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	-80	-78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	99	6138	0	-	-	0.0	-	184	196	-	21149	96%	2%	2%

Start of Construction - 2030 S02_NBa Kennedy Road 16th Avenue Highway 7

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	165	1948	0	-87	-86	2.0	7	184	209	209	22130	95%	3%	3%
OLA002	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	1878	0	-	-	0.0	-	184	207	-	22130	95%	3%	3%
OLA003	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	87	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	1859	0	87	88	2.0	4	184	207	206	22130	95%	3%	3%
OLA004	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	87	87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	64	1766	0	-	-	0.0	-	184	207	-	22130	95%	3%	3%
OLA005	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	88	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	37	1723	0	88	88	2.2	5	184	208	207	22130	95%	3%	3%
OLA006	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	1687	0	-90	-90	2.1	6	184	207	207	22130	95%	3%	3%
OLA007	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	87	87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	1691	0	87	87	2.1	5	184	208	207	22130	95%	3%	3%
OLA008	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	1616	0	-	-	0.0	-	184	207	-	22130	95%	3%	3%
OLA009	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	88	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	31	1615	0	88	88	2.1	5	184	207	207	22130	95%	3%	3%
OLA010	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	1515	0	-90	-90	1.9	8	184	206	206	22130	95%	3%	3%
OLA011	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	86	86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	71	1523	0	-	-	0.0	-	184	206	-	22130	95%	3%	3%
OLA012	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	1427	0	-90	-89	2.4	7	184	204	204	22130	95%	3%	3%
OLA013	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	1368	0	-	-	0.0	-	184	204	-	22130	95%	3%	3%
OLA014	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	88	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	28	1355	0	88	88	2.0	4	184	203	203	22130	95%	3%	3%
OLA015	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	1276	0	89	89	2.0	6	184	202	202	22130	95%	3%	3%
OLA016	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	87	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	74	1233	0	-	-	0.0	-	184	200	-	22130	95%	3%	3%
OLA017	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	29	989	0	-89	-88	1.9	7	184	196	196	22130	95%	3%	3%
OLA018	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	953	0	-89	-87	1.9	2	184	196	196	22130	95%	3%	3%
OLA019	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	54	914	0	-	-	0.0	-	184	197	-	22130	95%	3%	3%
OLA020	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	33	819	0	-88	-86	2.0	8	184	197	197	22130	95%	3%	3%
OLA021	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	-84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	775	0	-	-	0.0	-	184	200	-	22130	95%	3%	3%
OLA022	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-85	-82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	628	0	-85	-82	9.0	3	184	200	200	22130	95%	3%	3%
OLA023	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	83	83	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	83	600	0	-	-	0.0	-	184	199	-	22130	95%	3%	3%
OLA024	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	87	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	415	0	-	-	0.0	-	184	193	-	22130	95%	3%	3%
OLA025	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	-81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	350	0	-86	-81	1.8	5	184	191	192	22130	95%	3%	3%
OLA026	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-38	66	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	62	0	55	66	6.0	3	184	183	183	22130	95%	3%	3%
OLA027	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	64	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	41	0	-86	-15	2.5	26	184	185	184	22130	95%	3%	3%
OLA028	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-71	63	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	40	0	-	-	0.0	-	183	182	-	22130	95%	3%	3%
OLA029	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-69	80	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	47	0	-62	65	2.5	33	183	185	184	22130	95%	3%	3%
OLA030	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-51	87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	44	0	-40	60	6.0	3	182	184	184	22130	95%	3%	3%
OLA031	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-62	49	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	52	52	0	-	-	0.0	-	182	182	-	22130	95%	3%	3%
OLA032	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-61	-5	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	72	73	0	-	-	0.0	-	181	181	-	22130	95%	3%	3%
OLA033	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	64	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	51	0	-	-	0.0	-	181	182	-	22130	95%	3%	3%
OLA034	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-63	-30	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	49	0	-	-	0.0	-	181	182	-	22130	95%	3%	3%
OLA035	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-59	-58	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	46	114	0	-59	-58	6.0	3	181	182	182	22130	95%	3%	3%
OLA036	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	88	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	113	0	-	-	0.0	-	181	182	-	22130	95%	3%	3%
OLA037	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-63	-54	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	161	0	-	-	0.0	-	181	182	-	22130	95%	3%	3%
OLA038	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	177	0	-	-	0.0	-	181	182	-	22130	95%	3%	3%
OLA039	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-64	-53	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	209	0	-	-	0.0	-	181	181	-	22130	95%	3%	3%
OLA040	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	234	0	-	-	0.0	-	181	183	-	22130	95%	3%	3%
OLA041	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-59	-46	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	268	0	-	-	0.0	-	181	181	-	22130	95%	3%	3%
OLA042	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-63	-48	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	291	0	-	-	0.0	-	181	182	-	22130	95%	3%	3%
OLA043	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	288	0	-	-	0.0	-	181	183	-	22130	95%	3%	3%
OLA044	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-67	-51	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	39	342	0	-	-	0.0	-	181	182	-	22130	95%	3%	3%
OLA045	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-76	-61	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	385	0	-	-	0.0	-	181	183	-	22130	95%	3%	3%
OLA046	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	380	0	-	-	0.0	-	181	185	-	22130	95%	3%	3%
OLA047	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	-73	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	453	0	-87	-73	6.0	11	181	183	183	22130	95%	3%	3%
OLA048	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	74	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	529	0	-	-	0.0	-	181	184	-	22130	95%	3%	3%
OLA049	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	69	83	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	562	0	-	-	0.0	-	181	184	-	22130	95%	3%	3%
OLA050	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	531	0	-	-	0.0	-	181	185	-	22130	95%	3%	3%
OLA051	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	65	77	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	608	0	65	77	2.0	11	181	184	185	22130	95%	3%	3%
OLA052	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	586	0	-	-	0.0	-	181	185	-	22130	95%	3%	3%
OLA053	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	59	70	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	658	0	59	70	2.0	19	181	184	185	22130	95%	3%	3%
OLA054	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	51	61	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	698	0	51	61	2.0	12	181	184	186	22130	95%	3%	3%
OLA055	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	645	0	-	-	0.0	-	181	185	-	22130	95%	3%	3%
OLA056	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	52	61	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	741	0	52	61	2.0	13	181	185	186	22130	95%	3%	3%
OLA057	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	691	0	-	-	0.0	-	181	185	-	22130	95%	3%	3%
OLA058	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	55	63	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	25	784	0	55	63	2.0	10	181	185	186	22130	95%	3%	3%

OLA059	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	749	0	-	-	0.0	-	181	185	-	22130	95%	3%	3%
OLA060	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	57	64	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	833	0	57	64	1.8	15	181	186	186	22130	95%	3%	3%
OLA061	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	815	0	-	-	0.0	-	181	184	-	22130	95%	3%	3%
OLA062	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	59	66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	21	877	0	59	66	1.8	7	181	186	185	22130	95%	3%	3%
OLA063	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	24	881	0	-	-	0.0	-	181	185	-	22130	95%	3%	3%
OLA064	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	60	66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	931	0	60	66	1.8	6	181	186	185	22130	95%	3%	3%
OLA065	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	30	949	0	-	-	0.0	-	181	183	-	22130	95%	3%	3%
OLA066	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	994	0	-	-	0.0	-	181	183	-	22130	95%	3%	3%
OLA067	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	65	70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	1092	0	65	70	1.8	14	181	181	182	22130	95%	3%	3%
OLA068	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	1075	0	-	-	0.0	-	181	180	-	22130	95%	3%	3%
OLA069	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	67	71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	1161	0	67	71	1.8	31	181	181	180	22130	95%	3%	3%
OLA070	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	68	72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	1199	0	68	72	1.8	17	181	179	178	22130	95%	3%	3%
OLA071	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	1164	0	-	-	0.0	-	181	178	-	22130	95%	3%	3%
OLA072	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	39	1227	0	-	-	0.0	-	181	177	-	22130	95%	3%	3%
OLA073	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	69	73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	1278	0	69	73	1.9	10	181	177	177	22130	95%	3%	3%
OLA074	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	1302	0	-	-	0.0	-	181	176	-	22130	95%	3%	3%
OLA075	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	70	73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	1375	0	-	-	0.0	-	181	175	-	22130	95%	3%	3%
OLA076	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	65	67	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	72	1435	0	-	-	0.0	-	181	175	-	22130	95%	3%	3%
OLA077	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	32	1568	0	-	-	0.0	-	181	174	-	22130	95%	3%	3%
OLA078	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	64	66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	64	1624	0	-	-	0.0	-	181	172	-	22130	95%	3%	3%
OLA079	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	1640	0	-	-	0.0	-	181	175	-	22130	95%	3%	3%
OLA080	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	77	78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	23	1671	0	-	-	0.0	-	181	174	-	22130	95%	3%	3%
OLA081	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	65	1681	0	-	-	0.0	-	181	175	-	22130	95%	3%	3%
OLA082	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	79	80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	2030	0	-	-	0.0	-	181	181	-	22130	95%	3%	3%
OLA083	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	76	77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	2073	0	76	77	2.0	13	181	182	182	22130	95%	3%	3%
OLA084	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	71	72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	2127	0	71	72	1.6	18	181	183	182	22130	95%	3%	3%
OLA085	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	54	54	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	2220	0	54	54	2.6	8	181	182	181	22130	95%	3%	3%
OLA086	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	69	3473	0	89	89	2.0	19	181	193	194	22130	95%	3%	3%
OLA087	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	54	3511	0	89	89	2.0	55	181	194	194	22130	95%	3%	3%
OLA088	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	77	3536	0	89	89	6.0	21	181	194	194	22130	95%	3%	3%
OLA089	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	3763	0	-	-	0.0	-	181	205	-	22130	95%	3%	3%
OLA090	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	88	88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	74	3789	0	-	-	0.0	-	181	205	-	22130	95%	3%	3%
OLA091	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	4165	0	-	-	0.0	-	181	203	-	22130	95%	3%	3%
OLA092	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	4311	0	-	-	0.0	-	181	203	-	22130	95%	3%	3%
OLA093	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	4409	0	89	90	1.7	17	181	202	201	22130	95%	3%	3%
OLA094	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	76	76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	4581	0	-	-	0.0	-	181	202	-	22130	95%	3%	3%
OLA095	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	68	68	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	66	4652	0	-	-	0.0	-	181	202	-	22130	95%	3%	3%
OLA096	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	98	4641	0	-	-	0.0	-	181	202	-	22130	95%	3%	3%
OLA097	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	60	60	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	4703	0	60	60	1.8	5	181	202	201	22130	95%	3%	3%
OLA098	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	59	59	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	4747	0	59	59	1.8	4	181	202	202	22130	95%	3%	3%
OLA099	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	59	60	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	4870	0	-	-	0.0	-	181	201	-	22130	95%	3%	3%
OLA100	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	5276	0	-	-	0.0	-	181	202	-	22130	95%	3%	3%
OLA101	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	5343	0	-	-	0.0	-	181	201	-	22130	95%	3%	3%
OLA102	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	76	5529	0	-	-	0.0	-	181	198	-	22130	95%	3%	3%
OLA103	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	70	5699	0	-	-	0.0	-	181	197	-	22130	95%	3%	3%
OLA104	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-78	-77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	99	5897	0	-	-	0.0	-	181	196	-	22130	95%	3%	3%

Start of Construction - 2030 S02_NBb Kennedy Road 16th Avenue Highway 7

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	165	2191	0	-90	-87	2.0	7	181	209	209	22130	95%	3%	3%
OLA002	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	2123	0	-	-	0.0	-	181	207	-	22130	95%	3%	3%
OLA003	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	82	87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	2105	0	82	87	2.0	4	181	207	206	22130	95%	3%	3%
OLA004	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	64	2012	0	-	-	0.0	-	181	207	-	22130	95%	3%	3%
OLA005	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	82	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	37	1969	0	82	88	2.2	5	181	208	207	22130	95%	3%	3%
OLA006	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	1932	0	-	-	0.0	-	181	207	-	22130	95%	3%	3%
OLA007	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	1937	0	81	87	2.1	5	181	208	207	22130	95%	3%	3%
OLA008	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	1861	0	-	-	0.0	-	181	207	-	22130	95%	3%	3%
OLA009	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	82	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	31	1861	0	82	88	2.1	5	181	207	207	22130	95%	3%	3%
OLA010	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	1760	0	-	-	0.0	-	181	206	-	22130	95%	3%	3%
OLA011	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	79	86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	71	1770	0	-	-	0.0	-	181	206	-	22130	95%	3%	3%
OLA012	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	1672	0	-	-	0.0	-	181	204	-	22130	95%	3%	3%
OLA013	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	1613	0	-	-	0.0	-	181	204	-	22130	95%	3%	3%
OLA014	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	80	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	28	1601	0	80	88	2.0	4	181	203	203	22130	95%	3%	3%
OLA015	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	1522	0	81	89	2.0	6	181	202	202	22130	95%	3%	3%
OLA016	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	80	87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	74	1480	0	-	-	0.0	-	181	200	-	22130	95%	3%	3%
OLA017	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	29	1234	0	-90	-89	1.9	7	181	196	196	22130	95%	3%	3%
OLA018	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	1198	0	-90	-89	1.9	2	181	196	196	22130	95%	3%	3%
OLA019	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	54	1158	0	-	-	0.0	-	181	197	-	22130	95%	3%	3%
OLA020	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	33	1064	0	-90	-88	2.0	8	181	197	197	22130	95%	3%	3%
OLA021	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	1019	0	-	-	0.0	-	181	200	-	22130	95%	3%	3%
OLA022	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	872	0	-90	-85	9.0	3	181	200	200	22130	95%	3%	3%
OLA023	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	72	83	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	83	847	0	-	-	0.0	-	181	199	-	22130	95%	3%	3%
OLA024	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	74	87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	662	0	-	-	0.0	-	181	193	-	22130	95%	3%	3%
OLA025	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	593	0	-90	-86	1.8	5	181	191	192	22130	95%	3%	3%
OLA026	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	51	66	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	218	0	55	66	6.0	3	181	183	183	22130	95%	3%	3%
OLA027	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	157	0	-90	-86	2.5	26	181	185	184	22130	95%	3%	3%
OLA028	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	50	63	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	138	0	-	-	0.0	-	181	182	-	22130	95%	3%	3%
OLA029	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-69	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	100	0	-	-	0.0	-	181	185	-	22130	95%	3%	3%
OLA030	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-51	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	62	0	-	-	0.0	-	181	184	-	22130	95%	3%	3%
OLA031	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	49	56	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	52	82	0	-	-	0.0	-	181	182	-	22130	95%	3%	3%
OLA032	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-5	52	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	72	72	0	-	-	0.0	-	181	181	-	22130	95%	3%	3%
OLA033	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	64	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	27	0	-	-	0.0	-	181	182	-	22130	95%	3%	3%
OLA034	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-30	59	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	42	0	30	59	6.0	3	181	182	182	22130	95%	3%	3%
OLA035	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-59	62	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	46	46	0	-59	-15	6.0	3	181	182	182	22130	95%	3%	3%
OLA036	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	27	0	-	-	0.0	-	181	182	-	22130	95%	3%	3%
OLA037	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-63	66	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	39	0	-	-	0.0	-	181	182	-	22130	95%	3%	3%
OLA038	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	26	0	-	-	0.0	-	181	182	-	22130	95%	3%	3%
OLA039	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-64	63	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	43	0	-	-	0.0	-	181	181	-	22130	95%	3%	3%
OLA040	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-76	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	26	0	-	-	0.0	-	182	183	-	22130	95%	3%	3%
OLA041	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-59	57	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	44	0	-	-	0.0	-	182	181	-	22130	95%	3%	3%
OLA042	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-63	45	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	40	0	35	45	6.0	3	182	182	182	22130	95%	3%	3%
OLA043	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-34	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	28	0	-34	-3	1.8	12	182	183	182	22130	95%	3%	3%
OLA044	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-67	-22	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	39	42	0	-44	-22	1.8	9	182	182	182	22130	95%	3%	3%
OLA045	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-76	-63	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	74	0	-	-	0.0	-	182	183	-	22130	95%	3%	3%
OLA046	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	64	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	80	0	-	-	0.0	-	182	185	-	22130	95%	3%	3%
OLA047	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	-81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	140	0	-87	-81	6.0	11	182	183	183	22130	95%	3%	3%
OLA048	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	66	74	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	219	0	-	-	0.0	-	182	184	-	22130	95%	3%	3%
OLA049	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	62	69	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	251	0	-	-	0.0	-	182	184	-	22130	95%	3%	3%
OLA050	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	218	0	-	-	0.0	-	182	185	-	22130	95%	3%	3%
OLA051	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	63	65	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	295	0	63	65	2.0	11	182	184	185	22130	95%	3%	3%
OLA052	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	274	0	-	-	0.0	-	182	185	-	22130	95%	3%	3%
OLA053	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	59	59	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	345	0	-	-	0.0	-	182	184	-	22130	95%	3%	3%
OLA054	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	51	54	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	385	0	51	54	2.0	12	182	184	186	22130	95%	3%	3%
OLA055	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	336	0	-	-	0.0	-	182	185	-	22130	95%	3%	3%
OLA056	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	52	56	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	430	0	52	56	2.0	13	182	185	186	22130	95%	3%	3%
OLA057	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	386	0	-	-	0.0	-	182	185	-	22130	95%	3%	3%
OLA058	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	55	60	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	25	476	0	55	60	2.0	10	182	185	186	22130	95%	3%	3%

OLA059	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	448	0	-	-	0.0	-	182	185	-	22130	95%	3%	3%
OLA060	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	57	63	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	527	0	57	63	1.8	15	182	186	186	22130	95%	3%	3%
OLA061	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	519	0	-	-	0.0	-	182	184	-	22130	95%	3%	3%
OLA062	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	59	66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	21	575	0	59	66	1.8	7	182	186	185	22130	95%	3%	3%
OLA063	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	24	586	0	-	-	0.0	-	182	185	-	22130	95%	3%	3%
OLA064	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	60	67	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	629	0	60	67	1.8	6	182	186	185	22130	95%	3%	3%
OLA065	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	30	659	0	-	-	0.0	-	182	183	-	22130	95%	3%	3%
OLA066	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	708	0	-	-	0.0	-	182	183	-	22130	95%	3%	3%
OLA067	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	65	72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	798	0	65	72	1.8	14	182	181	182	22130	95%	3%	3%
OLA068	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	793	0	-	-	0.0	-	182	180	-	22130	95%	3%	3%
OLA069	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	67	73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	870	0	67	73	1.8	31	182	181	180	22130	95%	3%	3%
OLA070	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	68	75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	912	0	68	75	1.8	17	182	179	178	22130	95%	3%	3%
OLA071	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	885	0	-	-	0.0	-	182	178	-	22130	95%	3%	3%
OLA072	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	39	951	0	-	-	0.0	-	182	177	-	22130	95%	3%	3%
OLA073	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	69	76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	994	0	69	76	1.9	10	182	177	177	22130	95%	3%	3%
OLA074	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	1030	0	-	-	0.0	-	182	176	-	22130	95%	3%	3%
OLA075	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	70	77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	1092	0	-	-	0.0	-	182	175	-	22130	95%	3%	3%
OLA076	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	65	71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	72	1154	0	-	-	0.0	-	182	175	-	22130	95%	3%	3%
OLA077	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	32	1313	0	-	-	0.0	-	182	174	-	22130	95%	3%	3%
OLA078	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	64	70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	64	1360	0	-	-	0.0	-	182	172	-	22130	95%	3%	3%
OLA079	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	1390	0	-	-	0.0	-	182	175	-	22130	95%	3%	3%
OLA080	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	77	84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	23	1413	0	-	-	0.0	-	182	174	-	22130	95%	3%	3%
OLA081	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	65	1435	0	-	-	0.0	-	182	175	-	22130	95%	3%	3%
OLA082	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	79	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	1775	0	-	-	0.0	-	182	181	-	22130	95%	3%	3%
OLA083	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	76	82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	1819	0	76	82	2.0	13	182	182	182	22130	95%	3%	3%
OLA084	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	71	76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	1874	0	71	76	1.6	18	182	183	182	22130	95%	3%	3%
OLA085	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	54	59	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	1973	0	54	59	2.6	8	182	182	181	22130	95%	3%	3%
OLA086	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	69	3268	0	89	90	2.0	19	182	193	194	22130	95%	3%	3%
OLA087	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	54	3307	0	89	90	2.0	55	182	194	194	22130	95%	3%	3%
OLA088	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	77	3331	0	89	90	6.0	21	182	194	194	22130	95%	3%	3%
OLA089	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	3560	0	-	-	0.0	-	182	205	-	22130	95%	3%	3%
OLA090	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	88	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	74	3583	0	-	-	0.0	-	182	205	-	22130	95%	3%	3%
OLA091	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	3961	0	-	-	0.0	-	182	203	-	22130	95%	3%	3%
OLA092	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	4107	0	-	-	0.0	-	182	203	-	22130	95%	3%	3%
OLA093	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	4205	0	90	90	1.7	17	182	202	201	22130	95%	3%	3%
OLA094	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	76	79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	4377	0	-	-	0.0	-	182	202	-	22130	95%	3%	3%
OLA095	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	68	71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	66	4448	0	-	-	0.0	-	182	202	-	22130	95%	3%	3%
OLA096	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	98	4447	0	-	-	0.0	-	182	202	-	22130	95%	3%	3%
OLA097	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	60	63	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	4502	0	60	63	1.8	5	182	202	201	22130	95%	3%	3%
OLA098	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	59	62	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	4547	0	59	62	1.8	4	182	202	202	22130	95%	3%	3%
OLA099	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	60	63	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	4674	0	-	-	0.0	-	182	201	-	22130	95%	3%	3%
OLA100	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	5095	0	-	-	0.0	-	182	202	-	22130	95%	3%	3%
OLA101	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	5163	0	-	-	0.0	-	182	201	-	22130	95%	3%	3%
OLA102	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	76	5354	0	-	-	0.0	-	182	198	-	22130	95%	3%	3%
OLA103	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	-84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	70	5524	0	-	-	0.0	-	182	197	-	22130	95%	3%	3%
OLA104	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	99	5722	0	-	-	0.0	-	182	196	-	22130	95%	3%	3%

Start of Construction - 2030 S02_NBc Kennedy Road 16th Avenue Highway 7

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	165	2397	0	-	-	0.0	-	182	209	-	22130	95%	3%	3%
OLA002	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	2341	0	-	-	0.0	-	182	207	-	22130	95%	3%	3%
OLA003	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	78	82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	2332	0	78	82	2.0	4	182	207	206	22130	95%	3%	3%
OLA004	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	77	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	64	2243	0	-	-	0.0	-	182	207	-	22130	95%	3%	3%
OLA005	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	78	82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	37	2197	0	78	82	2.2	5	182	208	207	22130	95%	3%	3%
OLA006	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	2154	0	-	-	0.0	-	182	207	-	22130	95%	3%	3%
OLA007	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	77	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	2166	0	77	81	2.1	5	182	208	207	22130	95%	3%	3%
OLA008	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	2083	0	-	-	0.0	-	182	207	-	22130	95%	3%	3%
OLA009	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	77	82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	31	2090	0	77	82	2.1	5	182	207	207	22130	95%	3%	3%
OLA010	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	1982	0	-	-	0.0	-	182	206	-	22130	95%	3%	3%
OLA011	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	75	79	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	71	2004	0	-	-	0.0	-	182	206	-	22130	95%	3%	3%
OLA012	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	1894	0	-	-	0.0	-	182	204	-	22130	95%	3%	3%
OLA013	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	1835	0	-	-	0.0	-	182	204	-	22130	95%	3%	3%
OLA014	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	76	80	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	28	1833	0	76	80	2.0	4	182	203	203	22130	95%	3%	3%
OLA015	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	76	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	1756	0	76	81	2.0	6	182	202	202	22130	95%	3%	3%
OLA016	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	75	80	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	74	1719	0	-	-	0.0	-	182	200	-	22130	95%	3%	3%
OLA017	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	29	1461	0	-	-	0.0	-	182	196	-	22130	95%	3%	3%
OLA018	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	1426	0	-	-	0.0	-	182	196	-	22130	95%	3%	3%
OLA019	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	54	1383	0	-	-	0.0	-	182	197	-	22130	95%	3%	3%
OLA020	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	33	1293	0	-	-	0.0	-	182	197	-	22130	95%	3%	3%
OLA021	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	1243	0	-	-	0.0	-	182	200	-	22130	95%	3%	3%
OLA022	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	1102	0	-	-	0.0	-	182	200	-	22130	95%	3%	3%
OLA023	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	67	72	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	83	1102	0	-	-	0.0	-	182	199	-	22130	95%	3%	3%
OLA024	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	67	74	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	917	0	-	-	0.0	-	182	193	-	22130	95%	3%	3%
OLA025	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	833	0	-	-	0.0	-	182	191	-	22130	95%	3%	3%
OLA026	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	48	51	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	520	0	-	-	0.0	-	182	183	-	22130	95%	3%	3%
OLA027	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	426	0	-	-	0.0	-	182	185	-	22130	95%	3%	3%
OLA028	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	47	50	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	446	0	-	-	0.0	-	182	182	-	22130	95%	3%	3%
OLA029	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	372	0	-	-	0.0	-	182	185	-	22130	95%	3%	3%
OLA030	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	335	0	-	-	0.0	-	182	184	-	22130	95%	3%	3%
OLA031	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	56	57	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	52	395	0	-	-	0.0	-	182	182	-	22130	95%	3%	3%
OLA032	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	52	57	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	72	348	0	-	-	0.0	-	182	181	-	22130	95%	3%	3%
OLA033	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	263	0	-	-	0.0	-	182	182	-	22130	95%	3%	3%
OLA034	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	59	63	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	311	0	59	63	6.0	3	182	182	182	22130	95%	3%	3%
OLA035	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	62	72	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	46	240	0	-	-	0.0	-	182	182	-	22130	95%	3%	3%
OLA036	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	202	0	-	-	0.0	-	182	182	-	22130	95%	3%	3%
OLA037	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	66	80	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	186	0	-	-	0.0	-	182	182	-	22130	95%	3%	3%
OLA038	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	137	0	-	-	0.0	-	182	182	-	22130	95%	3%	3%
OLA039	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	63	84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	141	0	-	-	0.0	-	182	181	-	22130	95%	3%	3%
OLA040	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-76	-76	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	80	0	-	-	0.0	-	182	183	-	22130	95%	3%	3%
OLA041	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	57	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	84	0	-	-	0.0	-	182	181	-	22130	95%	3%	3%
OLA042	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	45	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	58	0	45	90	6.0	3	182	182	182	22130	95%	3%	3%
OLA043	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-67	-34	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	34	0	-45	-34	1.8	12	182	183	182	22130	95%	3%	3%
OLA044	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-22	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	39	39	0	-22	5	1.8	9	182	182	182	22130	95%	3%	3%
OLA045	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-63	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	39	0	-	-	0.0	-	183	183	-	22130	95%	3%	3%
OLA046	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-66	64	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	30	0	-66	-45	6.0	3	183	185	185	22130	95%	3%	3%
OLA047	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-81	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	45	0	-81	-40	6.0	11	184	183	183	22130	95%	3%	3%
OLA048	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-57	66	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	35	0	-57	-18	2.0	10	184	184	184	22130	95%	3%	3%
OLA049	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-40	62	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	41	0	-40	59	2.0	25	184	184	185	22130	95%	3%	3%
OLA050	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	53	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	33	0	-	-	0.0	-	184	185	-	22130	95%	3%	3%
OLA051	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	33	63	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	31	0	33	63	2.0	11	185	184	185	22130	95%	3%	3%
OLA052	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-27	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	43	0	-	-	0.0	-	185	185	-	22130	95%	3%	3%
OLA053	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	59	60	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	77	0	59	60	2.0	19	185	184	185	22130	95%	3%	3%
OLA054	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	54	66	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	121	0	54	66	2.0	12	185	184	186	22130	95%	3%	3%
OLA055	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-77	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	100	0	-	-	0.0	-	185	185	-	22130	95%	3%	3%
OLA056	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	56	72	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	172	0	56	72	2.0	13	185	185	186	22130	95%	3%	3%
OLA057	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-83	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	154	0	-	-	0.0	-	185	185	-	22130	95%	3%	3%
OLA058	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	60	77	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	25	225	0	60	77	2.0	10	185	185	186	22130	95%	3%	3%

OLA059	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	220	0	-	-	0.0	-	185	185	-	22130	95%	3%	3%
OLA060	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	63	78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	279	0	63	78	1.8	15	185	186	186	22130	95%	3%	3%
OLA061	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	296	0	-	-	0.0	-	185	184	-	22130	95%	3%	3%
OLA062	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	66	81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	21	334	0	66	81	1.8	7	185	186	185	22130	95%	3%	3%
OLA063	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	24	360	0	-	-	0.0	-	185	185	-	22130	95%	3%	3%
OLA064	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	67	80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	387	0	67	80	1.8	6	185	186	185	22130	95%	3%	3%
OLA065	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	30	438	0	-	-	0.0	-	185	183	-	22130	95%	3%	3%
OLA066	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	493	0	-	-	0.0	-	185	183	-	22130	95%	3%	3%
OLA067	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	72	83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	564	0	72	83	1.8	14	185	181	182	22130	95%	3%	3%
OLA068	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	579	0	-90	-88	6.0	3	185	180	180	22130	95%	3%	3%
OLA069	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	73	84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	639	0	73	84	1.8	31	185	181	180	22130	95%	3%	3%
OLA070	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	75	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	685	0	75	85	1.8	17	185	179	178	22130	95%	3%	3%
OLA071	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	672	0	-	-	0.0	-	185	178	-	22130	95%	3%	3%
OLA072	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	39	740	0	-	-	0.0	-	185	177	-	22130	95%	3%	3%
OLA073	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	76	86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	771	0	76	86	1.9	10	185	177	177	22130	95%	3%	3%
OLA074	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	822	0	-	-	0.0	-	185	176	-	22130	95%	3%	3%
OLA075	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	77	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	867	0	-	-	0.0	-	185	175	-	22130	95%	3%	3%
OLA076	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	71	79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	72	932	0	-	-	0.0	-	185	175	-	22130	95%	3%	3%
OLA077	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	32	1120	0	-	-	0.0	-	185	174	-	22130	95%	3%	3%
OLA078	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	70	78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	64	1154	0	-	-	0.0	-	185	172	-	22130	95%	3%	3%
OLA079	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	1200	0	-90	-86	6.0	3	185	175	175	22130	95%	3%	3%
OLA080	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	84	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	23	1214	0	-	-	0.0	-	185	174	-	22130	95%	3%	3%
OLA081	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	65	1248	0	-	-	0.0	-	185	175	-	22130	95%	3%	3%
OLA082	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	85	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	1574	0	-	-	0.0	-	185	181	-	22130	95%	3%	3%
OLA083	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	82	88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	1620	0	82	88	2.0	13	185	182	182	22130	95%	3%	3%
OLA084	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	76	82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	1674	0	76	82	1.6	18	185	183	182	22130	95%	3%	3%
OLA085	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	59	65	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	1779	0	59	65	2.6	8	185	182	181	22130	95%	3%	3%
OLA086	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	69	3108	0	-	-	0.0	-	185	193	-	22130	95%	3%	3%
OLA087	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	54	3148	0	-	-	0.0	-	185	194	-	22130	95%	3%	3%
OLA088	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	77	3170	0	-	-	0.0	-	185	194	-	22130	95%	3%	3%
OLA089	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	3400	0	-	-	0.0	-	185	205	-	22130	95%	3%	3%
OLA090	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	74	3421	0	-	-	0.0	-	185	205	-	22130	95%	3%	3%
OLA091	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	3799	0	-	-	0.0	-	185	203	-	22130	95%	3%	3%
OLA092	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	3945	0	-	-	0.0	-	185	203	-	22130	95%	3%	3%
OLA093	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	4042	0	-	-	0.0	-	185	202	-	22130	95%	3%	3%
OLA094	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	79	82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	4214	0	-	-	0.0	-	185	202	-	22130	95%	3%	3%
OLA095	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	71	74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	66	4284	0	-	-	0.0	-	185	202	-	22130	95%	3%	3%
OLA096	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	98	4292	0	-	-	0.0	-	185	202	-	22130	95%	3%	3%
OLA097	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	63	66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	4342	0	63	66	1.8	5	185	202	201	22130	95%	3%	3%
OLA098	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	62	65	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	4386	0	62	65	1.8	4	185	202	202	22130	95%	3%	3%
OLA099	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	63	65	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	4517	0	-	-	0.0	-	185	201	-	22130	95%	3%	3%
OLA100	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	4951	0	-	-	0.0	-	185	202	-	22130	95%	3%	3%
OLA101	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	5020	0	-	-	0.0	-	185	201	-	22130	95%	3%	3%
OLA102	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	76	5216	0	-	-	0.0	-	185	198	-	22130	95%	3%	3%
OLA103	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-84	-81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	70	5386	0	-	-	0.0	-	185	197	-	22130	95%	3%	3%
OLA104	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	99	5583	0	-	-	0.0	-	185	196	-	22130	95%	3%	3%

Start of Construction - 2030 S02_NBd Kennedy Road 16th Avenue Highway 7

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	165	2590	0	-	-	0.0	-	185	209	-	22130	95%	3%	3%
OLA002	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	2543	0	-	-	0.0	-	185	207	-	22130	95%	3%	3%
OLA003	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	78	79	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	2541	0	78	79	2.0	4	185	207	206	22130	95%	3%	3%
OLA004	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	77	78	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	64	2454	0	-	-	0.0	-	185	207	-	22130	95%	3%	3%
OLA005	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	78	79	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	37	2407	0	78	79	2.2	5	185	208	207	22130	95%	3%	3%
OLA006	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	2359	0	-	-	0.0	-	185	207	-	22130	95%	3%	3%
OLA007	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	77	78	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	2377	0	77	78	2.1	5	185	208	207	22130	95%	3%	3%
OLA008	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	2289	0	-	-	0.0	-	185	207	-	22130	95%	3%	3%
OLA009	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	77	79	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	31	2301	0	77	79	2.1	5	185	207	207	22130	95%	3%	3%
OLA010	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	2189	0	-	-	0.0	-	185	206	-	22130	95%	3%	3%
OLA011	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	75	77	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	71	2219	0	-	-	0.0	-	185	206	-	22130	95%	3%	3%
OLA012	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	2103	0	-	-	0.0	-	185	204	-	22130	95%	3%	3%
OLA013	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	2043	0	-	-	0.0	-	185	204	-	22130	95%	3%	3%
OLA014	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	76	78	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	28	2048	0	76	78	2.0	4	185	203	203	22130	95%	3%	3%
OLA015	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	76	79	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	1972	0	76	79	2.0	6	185	202	202	22130	95%	3%	3%
OLA016	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	75	78	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	74	1940	0	-	-	0.0	-	185	200	-	22130	95%	3%	3%
OLA017	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	29	1678	0	-	-	0.0	-	185	196	-	22130	95%	3%	3%
OLA018	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	1643	0	-	-	0.0	-	185	196	-	22130	95%	3%	3%
OLA019	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	54	1598	0	-	-	0.0	-	185	197	-	22130	95%	3%	3%
OLA020	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	33	1512	0	-	-	0.0	-	185	197	-	22130	95%	3%	3%
OLA021	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	1460	0	-	-	0.0	-	185	200	-	22130	95%	3%	3%
OLA022	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	1325	0	-	-	0.0	-	185	200	-	22130	95%	3%	3%
OLA023	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	67	73	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	83	1340	0	-	-	0.0	-	185	199	-	22130	95%	3%	3%
OLA024	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	67	75	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	1158	0	-	-	0.0	-	185	193	-	22130	95%	3%	3%
OLA025	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	1068	0	-	-	0.0	-	185	191	-	22130	95%	3%	3%
OLA026	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	48	66	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	785	0	55	66	6.0	3	185	183	183	22130	95%	3%	3%
OLA027	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	687	0	-	-	0.0	-	185	185	-	22130	95%	3%	3%
OLA028	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	47	68	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	713	0	-	-	0.0	-	185	182	-	22130	95%	3%	3%
OLA029	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	635	0	-	-	0.0	-	185	185	-	22130	95%	3%	3%
OLA030	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	601	0	-	-	0.0	-	185	184	-	22130	95%	3%	3%
OLA031	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	57	80	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	52	663	0	-	-	0.0	-	185	182	-	22130	95%	3%	3%
OLA032	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	57	84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	72	613	0	-	-	0.0	-	185	181	-	22130	95%	3%	3%
OLA033	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	531	0	-	-	0.0	-	185	182	-	22130	95%	3%	3%
OLA034	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	63	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	577	0	63	90	6.0	3	185	182	182	22130	95%	3%	3%
OLA035	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	72	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	46	501	0	-	-	0.0	-	185	182	-	22130	95%	3%	3%
OLA036	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-68	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	469	0	-	-	0.0	-	185	182	-	22130	95%	3%	3%
OLA037	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	80	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	445	0	-	-	0.0	-	185	182	-	22130	95%	3%	3%
OLA038	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	-57	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	405	0	-	-	0.0	-	185	182	-	22130	95%	3%	3%
OLA039	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	84	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	394	0	-	-	0.0	-	185	181	-	22130	95%	3%	3%
OLA040	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-76	-47	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	348	0	-	-	0.0	-	185	183	-	22130	95%	3%	3%
OLA041	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	328	0	-	-	0.0	-	185	181	-	22130	95%	3%	3%
OLA042	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	299	0	-	-	0.0	-	185	182	-	22130	95%	3%	3%
OLA043	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-67	-39	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	295	0	-45	-39	1.8	12	185	183	182	22130	95%	3%	3%
OLA044	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	39	243	0	-	-	0.0	-	185	182	-	22130	95%	3%	3%
OLA045	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	198	0	-	-	0.0	-	185	183	-	22130	95%	3%	3%
OLA046	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-66	-43	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	210	0	-66	-45	6.0	3	185	185	185	22130	95%	3%	3%
OLA047	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	131	0	-	-	0.0	-	185	183	-	22130	95%	3%	3%
OLA048	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-59	-57	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	76	0	-59	-57	2.0	10	185	184	184	22130	95%	3%	3%
OLA049	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-64	-40	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	55	0	-64	-40	2.0	25	185	184	185	22130	95%	3%	3%
OLA050	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	53	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	54	0	-	-	0.0	-	185	185	-	22130	95%	3%	3%
OLA051	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-70	33	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	26	0	-70	33	2.0	11	185	184	185	22130	95%	3%	3%
OLA052	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-27	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	38	0	-	-	0.0	-	185	185	-	22130	95%	3%	3%
OLA053	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-76	60	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	35	0	-76	60	2.0	19	185	184	185	22130	95%	3%	3%
OLA054	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	66	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	28	0	-87	66	2.0	12	185	184	186	22130	95%	3%	3%
OLA055	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-77	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	43	0	-	-	0.0	-	185	185	-	22130	95%	3%	3%
OLA056	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	72	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	27	0	-88	72	2.0	13	185	185	186	22130	95%	3%	3%
OLA057	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-83	86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	44	0	-	-	0.0	-	185	185	-	22130	95%	3%	3%
OLA058	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	77	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	25	25	0	-88	77	2.0	10	185	185	186	22130	95%	3%	3%

OLA059	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	40	0	-	-	0.0	-	185	185	-	22130	95%	3%	3%
OLA060	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	30	0	-87	78	1.8	15	185	186	186	22130	95%	3%	3%
OLA061	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	42	0	-	-	0.0	-	185	184	-	22130	95%	3%	3%
OLA062	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-88	81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	21	23	0	-88	81	1.8	7	185	186	185	22130	95%	3%	3%
OLA063	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	24	24	0	-	-	0.0	-	185	185	-	22130	95%	3%	3%
OLA064	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-84	80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	45	0	-84	80	1.8	6	184	186	185	22130	95%	3%	3%
OLA065	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	30	30	0	-	-	0.0	-	184	183	-	22130	95%	3%	3%
OLA066	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-88	83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	41	0	25	83	6.0	3	183	183	183	22130	95%	3%	3%
OLA067	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-79	83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	51	0	-79	83	1.8	14	182	181	182	22130	95%	3%	3%
OLA068	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-88	83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	36	0	-88	-35	6.0	3	181	180	180	22130	95%	3%	3%
OLA069	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	51	0	-75	84	1.8	31	179	181	180	22130	95%	3%	3%
OLA070	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	38	0	-75	85	1.8	17	178	179	178	22130	95%	3%	3%
OLA071	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	36	0	-	-	0.0	-	178	178	-	22130	95%	3%	3%
OLA072	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	39	39	0	-	-	0.0	-	176	177	-	22130	95%	3%	3%
OLA073	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-61	86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	34	0	-61	86	1.9	10	176	177	177	22130	95%	3%	3%
OLA074	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	12	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	49	0	-	-	0.0	-	176	176	-	22130	95%	3%	3%
OLA075	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	28	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	64	0	-	-	0.0	-	176	175	-	22130	95%	3%	3%
OLA076	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	56	79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	72	109	0	-	-	0.0	-	176	175	-	22130	95%	3%	3%
OLA077	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	32	311	0	-	-	0.0	-	176	174	-	22130	95%	3%	3%
OLA078	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	78	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	64	323	0	-	-	0.0	-	176	172	-	22130	95%	3%	3%
OLA079	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	-69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	392	0	-86	-69	6.0	3	176	175	175	22130	95%	3%	3%
OLA080	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	23	390	0	-	-	0.0	-	176	174	-	22130	95%	3%	3%
OLA081	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-83	-66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	65	443	0	-	-	0.0	-	176	175	-	22130	95%	3%	3%
OLA082	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	743	0	-	-	0.0	-	176	181	-	22130	95%	3%	3%
OLA083	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	88	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	789	0	88	90	2.0	13	176	182	182	22130	95%	3%	3%
OLA084	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	82	86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	844	0	82	86	1.6	18	176	183	182	22130	95%	3%	3%
OLA085	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	65	69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	951	0	65	69	2.6	8	176	182	181	22130	95%	3%	3%
OLA086	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	69	2308	0	-	-	0.0	-	176	193	-	22130	95%	3%	3%
OLA087	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	54	2349	0	-	-	0.0	-	176	194	-	22130	95%	3%	3%
OLA088	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	77	2368	0	-	-	0.0	-	176	194	-	22130	95%	3%	3%
OLA089	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	2598	0	-	-	0.0	-	176	205	-	22130	95%	3%	3%
OLA090	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	74	2616	0	-	-	0.0	-	176	205	-	22130	95%	3%	3%
OLA091	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	2993	0	-	-	0.0	-	176	203	-	22130	95%	3%	3%
OLA092	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	3138	0	-	-	0.0	-	176	203	-	22130	95%	3%	3%
OLA093	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	3234	0	-	-	0.0	-	176	202	-	22130	95%	3%	3%
OLA094	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	82	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	3405	0	-	-	0.0	-	176	202	-	22130	95%	3%	3%
OLA095	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	74	77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	66	3475	0	-	-	0.0	-	176	202	-	22130	95%	3%	3%
OLA096	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	98	3493	0	-	-	0.0	-	176	202	-	22130	95%	3%	3%
OLA097	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	66	69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	3537	0	66	69	1.8	5	176	202	201	22130	95%	3%	3%
OLA098	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	65	68	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	3580	0	65	68	1.8	4	176	202	202	22130	95%	3%	3%
OLA099	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	65	68	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	3715	0	-	-	0.0	-	176	201	-	22130	95%	3%	3%
OLA100	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	4163	0	-	-	0.0	-	176	202	-	22130	95%	3%	3%
OLA101	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	4233	0	-	-	0.0	-	176	201	-	22130	95%	3%	3%
OLA102	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	76	4435	0	-	-	0.0	-	176	198	-	22130	95%	3%	3%
OLA103	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	70	4604	0	-	-	0.0	-	176	197	-	22130	95%	3%	3%
OLA104	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	99	4800	0	-	-	0.0	-	176	196	-	22130	95%	3%	3%

Start of Construction - 2030 S02_NBe Kennedy Road 16th Avenue Highway 7

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	165	3424	0	-	-	0.0	-	176	209	-	22130	95%	3%	3%
OLA002	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	3377	0	-	-	0.0	-	176	207	-	22130	95%	3%	3%
OLA003	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	79	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	3373	0	79	81	2.0	4	176	207	206	22130	95%	3%	3%
OLA004	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	78	80	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	64	3286	0	-	-	0.0	-	176	207	-	22130	95%	3%	3%
OLA005	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	79	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	37	3239	0	79	81	2.2	5	176	208	207	22130	95%	3%	3%
OLA006	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	3192	0	-	-	0.0	-	176	207	-	22130	95%	3%	3%
OLA007	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	78	80	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	3209	0	78	80	2.1	5	176	208	207	22130	95%	3%	3%
OLA008	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	3122	0	-	-	0.0	-	176	207	-	22130	95%	3%	3%
OLA009	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	79	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	31	3133	0	79	81	2.1	5	176	207	207	22130	95%	3%	3%
OLA010	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	3021	0	-	-	0.0	-	176	206	-	22130	95%	3%	3%
OLA011	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	77	79	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	71	3049	0	-	-	0.0	-	176	206	-	22130	95%	3%	3%
OLA012	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	2935	0	-	-	0.0	-	176	204	-	22130	95%	3%	3%
OLA013	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	2876	0	-	-	0.0	-	176	204	-	22130	95%	3%	3%
OLA014	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	78	80	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	28	2878	0	78	80	2.0	4	176	203	203	22130	95%	3%	3%
OLA015	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	79	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	2802	0	79	81	2.0	6	176	202	202	22130	95%	3%	3%
OLA016	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	78	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	74	2767	0	-	-	0.0	-	176	200	-	22130	95%	3%	3%
OLA017	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	29	2507	0	-	-	0.0	-	176	196	-	22130	95%	3%	3%
OLA018	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	2471	0	-	-	0.0	-	176	196	-	22130	95%	3%	3%
OLA019	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	54	2427	0	-	-	0.0	-	176	197	-	22130	95%	3%	3%
OLA020	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	33	2340	0	-	-	0.0	-	176	197	-	22130	95%	3%	3%
OLA021	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	2289	0	-	-	0.0	-	176	200	-	22130	95%	3%	3%
OLA022	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	2150	0	-	-	0.0	-	176	200	-	22130	95%	3%	3%
OLA023	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	73	77	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	83	2153	0	-	-	0.0	-	176	199	-	22130	95%	3%	3%
OLA024	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	75	79	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	1967	0	-	-	0.0	-	176	193	-	22130	95%	3%	3%
OLA025	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	1884	0	-	-	0.0	-	176	191	-	22130	95%	3%	3%
OLA026	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	66	72	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	1546	0	66	72	6.0	3	176	183	183	22130	95%	3%	3%
OLA027	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	1467	0	-	-	0.0	-	176	185	-	22130	95%	3%	3%
OLA028	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	68	74	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	1466	0	-	-	0.0	-	176	182	-	22130	95%	3%	3%
OLA029	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	1409	0	-	-	0.0	-	176	185	-	22130	95%	3%	3%
OLA030	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	1368	0	-	-	0.0	-	176	184	-	22130	95%	3%	3%
OLA031	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	80	87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	52	1398	0	-	-	0.0	-	176	182	-	22130	95%	3%	3%
OLA032	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	84	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	72	1328	0	-	-	0.0	-	176	181	-	22130	95%	3%	3%
OLA033	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-81	-74	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	1286	0	-	-	0.0	-	176	182	-	22130	95%	3%	3%
OLA034	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	1302	0	-	-	0.0	-	176	182	-	22130	95%	3%	3%
OLA035	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	46	1220	0	-	-	0.0	-	176	182	-	22130	95%	3%	3%
OLA036	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-68	-61	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	1224	0	-	-	0.0	-	176	182	-	22130	95%	3%	3%
OLA037	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	1168	0	-	-	0.0	-	176	182	-	22130	95%	3%	3%
OLA038	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-57	-50	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	1166	0	-	-	0.0	-	176	182	-	22130	95%	3%	3%
OLA039	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	1120	0	-	-	0.0	-	176	181	-	22130	95%	3%	3%
OLA040	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-47	-40	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	1120	0	-	-	0.0	-	176	183	-	22130	95%	3%	3%
OLA041	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	1066	0	-	-	0.0	-	176	181	-	22130	95%	3%	3%
OLA042	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	1048	0	-	-	0.0	-	176	182	-	22130	95%	3%	3%
OLA043	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-39	-32	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	1084	0	-39	-32	1.8	12	176	183	182	22130	95%	3%	3%
OLA044	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	39	1011	0	-	-	0.0	-	176	182	-	22130	95%	3%	3%
OLA045	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	980	0	-	-	0.0	-	176	183	-	22130	95%	3%	3%
OLA046	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-43	-37	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	1025	0	-	-	0.0	-	176	185	-	22130	95%	3%	3%
OLA047	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	923	0	-	-	0.0	-	176	183	-	22130	95%	3%	3%
OLA048	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-59	-54	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	910	0	-59	-54	2.0	10	176	184	184	22130	95%	3%	3%
OLA049	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-64	-59	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	884	0	-64	-59	2.0	25	176	184	185	22130	95%	3%	3%
OLA050	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	861	0	-	-	0.0	-	176	185	-	22130	95%	3%	3%
OLA051	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-70	-65	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	827	0	-70	-65	2.0	11	176	184	185	22130	95%	3%	3%
OLA052	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	805	0	-	-	0.0	-	176	185	-	22130	95%	3%	3%
OLA053	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-76	-71	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	778	0	-76	-71	2.0	19	176	184	185	22130	95%	3%	3%
OLA054	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	-81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	725	0	-87	-81	2.0	12	176	184	186	22130	95%	3%	3%
OLA055	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	88	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	737	0	-	-	0.0	-	176	185	-	22130	95%	3%	3%
OLA056	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	-83	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	671	0	-88	-83	2.0	13	176	185	186	22130	95%	3%	3%
OLA057	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	86	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	682	0	-	-	0.0	-	176	185	-	22130	95%	3%	3%
OLA058	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	-82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	25	616	0	-88	-82	2.0	10	176	185	186	22130	95%	3%	3%

OLA059	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	86	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	616	0	-	-	0.0	-	176	185	-	22130	95%	3%	3%
OLA060	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	561	0	-87	-81	1.8	15	176	186	186	22130	95%	3%	3%
OLA061	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	85	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	540	0	-	-	0.0	-	176	184	-	22130	95%	3%	3%
OLA062	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-88	-81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	21	504	0	-88	-81	1.8	7	176	186	185	22130	95%	3%	3%
OLA063	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	87	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	24	474	0	-	-	0.0	-	176	185	-	22130	95%	3%	3%
OLA064	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-84	-79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	456	0	-84	-79	1.8	6	176	186	185	22130	95%	3%	3%
OLA065	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	86	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	30	397	0	-	-	0.0	-	176	183	-	22130	95%	3%	3%
OLA066	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	83	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	344	0	83	90	6.0	3	176	183	183	22130	95%	3%	3%
OLA067	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-79	-74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	279	0	-79	-74	1.8	14	176	181	182	22130	95%	3%	3%
OLA068	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	83	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	258	0	-	-	0.0	-	176	180	-	22130	95%	3%	3%
OLA069	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	206	0	-75	-72	1.8	31	176	181	180	22130	95%	3%	3%
OLA070	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	157	0	-75	-72	1.8	17	176	179	178	22130	95%	3%	3%
OLA071	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	79	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	166	0	-	-	0.0	-	176	178	-	22130	95%	3%	3%
OLA072	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	69	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	39	101	0	-	-	0.0	-	176	177	-	22130	95%	3%	3%
OLA073	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-69	-61	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	75	0	-69	-61	1.9	10	176	177	177	22130	95%	3%	3%
OLA074	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	12	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	50	0	-	-	0.0	-	176	176	-	22130	95%	3%	3%
OLA075	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-59	28	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	61	0	-	-	0.0	-	176	175	-	22130	95%	3%	3%
OLA076	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-59	56	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	72	72	0	-	-	0.0	-	175	175	-	22130	95%	3%	3%
OLA077	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-84	15	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	32	32	0	-	-	0.0	-	172	174	-	22130	95%	3%	3%
OLA078	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	5	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	64	64	0	5	50	6.0	3	172	172	172	22130	95%	3%	3%
OLA079	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-69	-50	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	79	0	-69	-50	6.0	3	172	175	175	22130	95%	3%	3%
OLA080	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	79	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	23	79	0	-	-	0.0	-	172	174	-	22130	95%	3%	3%
OLA081	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-66	-54	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	65	128	0	-	-	0.0	-	172	175	-	22130	95%	3%	3%
OLA082	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	84	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	441	0	-	-	0.0	-	172	181	-	22130	95%	3%	3%
OLA083	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	83	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	485	0	83	90	2.0	13	172	182	182	22130	95%	3%	3%
OLA084	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	78	86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	540	0	78	86	1.6	18	172	183	182	22130	95%	3%	3%
OLA085	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	64	69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	642	0	64	69	2.6	8	172	182	181	22130	95%	3%	3%
OLA086	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	69	1990	0	-	-	0.0	-	172	193	-	22130	95%	3%	3%
OLA087	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	54	2030	0	-	-	0.0	-	172	194	-	22130	95%	3%	3%
OLA088	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	77	2050	0	-	-	0.0	-	172	194	-	22130	95%	3%	3%
OLA089	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	2280	0	-	-	0.0	-	172	205	-	22130	95%	3%	3%
OLA090	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	74	2298	0	-	-	0.0	-	172	205	-	22130	95%	3%	3%
OLA091	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	2675	0	-	-	0.0	-	172	203	-	22130	95%	3%	3%
OLA092	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	2821	0	-	-	0.0	-	172	203	-	22130	95%	3%	3%
OLA093	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	2917	0	-	-	0.0	-	172	202	-	22130	95%	3%	3%
OLA094	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	85	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	3088	0	-	-	0.0	-	172	202	-	22130	95%	3%	3%
OLA095	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	77	77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	66	3158	0	-	-	0.0	-	172	202	-	22130	95%	3%	3%
OLA096	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	98	3175	0	-	-	0.0	-	172	202	-	22130	95%	3%	3%
OLA097	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	69	69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	3219	0	69	69	1.8	5	172	202	201	22130	95%	3%	3%
OLA098	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	67	68	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	3263	0	67	68	1.8	4	172	202	202	22130	95%	3%	3%
OLA099	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	68	68	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	3397	0	-	-	0.0	-	172	201	-	22130	95%	3%	3%
OLA100	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	3845	0	-	-	0.0	-	172	202	-	22130	95%	3%	3%
OLA101	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	3915	0	-	-	0.0	-	172	201	-	22130	95%	3%	3%
OLA102	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	76	4117	0	-	-	0.0	-	172	198	-	22130	95%	3%	3%
OLA103	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-78	-78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	70	4286	0	-	-	0.0	-	172	197	-	22130	95%	3%	3%
OLA104	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-69	-69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	99	4482	0	-	-	0.0	-	172	196	-	22130	95%	3%	3%

Start of Construction - 2030 S02_NBf Kennedy Road 16th Avenue Highway 7

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	165	3724	0	-	-	0.0	-	172	209	-	22130	95%	3%	3%
OLA002	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	3673	0	-	-	0.0	-	172	207	-	22130	95%	3%	3%
OLA003	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	3666	0	81	81	2.0	4	172	207	206	22130	95%	3%	3%
OLA004	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	80	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	64	3577	0	-	-	0.0	-	172	207	-	22130	95%	3%	3%
OLA005	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	37	3531	0	81	81	2.2	5	172	208	207	22130	95%	3%	3%
OLA006	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	3486	0	-	-	0.0	-	172	207	-	22130	95%	3%	3%
OLA007	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	80	80	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	3500	0	80	80	2.1	5	172	208	207	22130	95%	3%	3%
OLA008	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	3416	0	-	-	0.0	-	172	207	-	22130	95%	3%	3%
OLA009	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	31	3424	0	81	81	2.1	5	172	207	207	22130	95%	3%	3%
OLA010	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	3315	0	-	-	0.0	-	172	206	-	22130	95%	3%	3%
OLA011	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	79	80	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	71	3338	0	-	-	0.0	-	172	206	-	22130	95%	3%	3%
OLA012	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	3227	0	-	-	0.0	-	172	204	-	22130	95%	3%	3%
OLA013	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	3168	0	-	-	0.0	-	172	204	-	22130	95%	3%	3%
OLA014	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	80	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	28	3167	0	80	81	2.0	4	172	203	203	22130	95%	3%	3%
OLA015	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	3090	0	81	82	2.0	6	172	202	202	22130	95%	3%	3%
OLA016	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	74	3053	0	-	-	0.0	-	172	200	-	22130	95%	3%	3%
OLA017	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	29	2796	0	-	-	0.0	-	172	196	-	22130	95%	3%	3%
OLA018	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	2760	0	-	-	0.0	-	172	196	-	22130	95%	3%	3%
OLA019	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	54	2717	0	-	-	0.0	-	172	197	-	22130	95%	3%	3%
OLA020	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	33	2627	0	-	-	0.0	-	172	197	-	22130	95%	3%	3%
OLA021	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	2577	0	-	-	0.0	-	172	200	-	22130	95%	3%	3%
OLA022	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	2436	0	-	-	0.0	-	172	200	-	22130	95%	3%	3%
OLA023	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	77	78	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	83	2431	0	-	-	0.0	-	172	199	-	22130	95%	3%	3%
OLA024	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	79	80	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	2244	0	-	-	0.0	-	172	193	-	22130	95%	3%	3%
OLA025	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	2165	0	-	-	0.0	-	172	191	-	22130	95%	3%	3%
OLA026	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	72	74	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	1808	0	72	74	6.0	3	172	183	183	22130	95%	3%	3%
OLA027	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	1738	0	-	-	0.0	-	172	185	-	22130	95%	3%	3%
OLA028	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	74	76	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	1727	0	-	-	0.0	-	172	182	-	22130	95%	3%	3%
OLA029	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	1679	0	-	-	0.0	-	172	185	-	22130	95%	3%	3%
OLA030	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	1637	0	-	-	0.0	-	172	184	-	22130	95%	3%	3%
OLA031	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	87	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	52	1656	0	-	-	0.0	-	172	182	-	22130	95%	3%	3%
OLA032	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	72	1582	0	-	-	0.0	-	172	181	-	22130	95%	3%	3%
OLA033	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-74	-72	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	1554	0	-	-	0.0	-	172	182	-	22130	95%	3%	3%
OLA034	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	1561	0	-	-	0.0	-	172	182	-	22130	95%	3%	3%
OLA035	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	46	1480	0	-	-	0.0	-	172	182	-	22130	95%	3%	3%
OLA036	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-61	-60	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	1494	0	-	-	0.0	-	172	182	-	22130	95%	3%	3%
OLA037	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	1432	0	-	-	0.0	-	172	182	-	22130	95%	3%	3%
OLA038	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-50	-49	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	1439	0	-	-	0.0	-	172	182	-	22130	95%	3%	3%
OLA039	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	1387	0	-	-	0.0	-	172	181	-	22130	95%	3%	3%
OLA040	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-40	-39	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	1398	0	-	-	0.0	-	172	183	-	22130	95%	3%	3%
OLA041	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	1339	0	-	-	0.0	-	172	181	-	22130	95%	3%	3%
OLA042	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	1325	0	-	-	0.0	-	172	182	-	22130	95%	3%	3%
OLA043	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-32	-31	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	1368	0	-32	-31	1.8	12	172	183	182	22130	95%	3%	3%
OLA044	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	39	1293	0	-	-	0.0	-	172	182	-	22130	95%	3%	3%
OLA045	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	1266	0	-	-	0.0	-	172	183	-	22130	95%	3%	3%
OLA046	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-37	-37	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	1317	0	-	-	0.0	-	172	185	-	22130	95%	3%	3%
OLA047	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	1215	0	-	-	0.0	-	172	183	-	22130	95%	3%	3%
OLA048	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-54	-54	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	1213	0	-54	-54	2.0	10	172	184	184	22130	95%	3%	3%
OLA049	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-59	-59	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	1189	0	-59	-59	2.0	25	172	184	185	22130	95%	3%	3%
OLA050	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	1159	0	-	-	0.0	-	172	185	-	22130	95%	3%	3%
OLA051	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-65	-65	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	1132	0	-65	-65	2.0	11	172	184	185	22130	95%	3%	3%
OLA052	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	1104	0	-	-	0.0	-	172	185	-	22130	95%	3%	3%
OLA053	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-72	-71	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	1086	0	-72	-71	2.0	19	172	184	185	22130	95%	3%	3%
OLA054	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-82	-81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	1033	0	-82	-81	2.0	12	172	184	186	22130	95%	3%	3%
OLA055	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	1038	0	-	-	0.0	-	172	185	-	22130	95%	3%	3%
OLA056	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-84	-83	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	980	0	-84	-83	2.0	13	172	185	186	22130	95%	3%	3%
OLA057	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	983	0	-	-	0.0	-	172	185	-	22130	95%	3%	3%
OLA058	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-84	-82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	25	925	0	-84	-82	2.0	10	172	185	186	22130	95%	3%	3%

OLA059	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	918	0	-	-	0.0	-	172	185	-	22130	95%	3%	3%
OLA060	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-83	-81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	871	0	-83	-81	1.8	15	172	186	186	22130	95%	3%	3%
OLA061	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	841	0	-	-	0.0	-	172	184	-	22130	95%	3%	3%
OLA062	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-83	-81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	21	814	0	-83	-81	1.8	7	172	186	185	22130	95%	3%	3%
OLA063	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	24	778	0	-	-	0.0	-	172	185	-	22130	95%	3%	3%
OLA064	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	768	0	-81	-79	1.8	6	172	186	185	22130	95%	3%	3%
OLA065	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	30	700	0	-	-	0.0	-	172	183	-	22130	95%	3%	3%
OLA066	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	645	0	-	-	0.0	-	172	183	-	22130	95%	3%	3%
OLA067	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-78	-74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	595	0	-78	-74	1.8	14	172	181	182	22130	95%	3%	3%
OLA068	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	560	0	-	-	0.0	-	172	180	-	22130	95%	3%	3%
OLA069	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-76	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	524	0	-76	-72	1.8	31	172	181	180	22130	95%	3%	3%
OLA070	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	474	0	-77	-72	1.8	17	172	179	178	22130	95%	3%	3%
OLA071	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	467	0	-	-	0.0	-	172	178	-	22130	95%	3%	3%
OLA072	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	39	400	0	-	-	0.0	-	172	177	-	22130	95%	3%	3%
OLA073	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	392	0	-75	-69	1.9	10	172	177	177	22130	95%	3%	3%
OLA074	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	318	0	-	-	0.0	-	172	176	-	22130	95%	3%	3%
OLA075	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-70	-59	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	315	0	-	-	0.0	-	172	175	-	22130	95%	3%	3%
OLA076	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-59	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	72	257	0	-	-	0.0	-	172	175	-	22130	95%	3%	3%
OLA077	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	15	66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	32	34	0	30	66	6.0	3	172	174	174	22130	95%	3%	3%
OLA078	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-83	5	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	64	64	0	-83	5	6.0	3	172	172	172	22130	95%	3%	3%
OLA079	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-50	71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	44	0	-50	-40	6.0	3	173	175	175	22130	95%	3%	3%
OLA080	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-83	79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	23	23	0	-83	-76	1.7	30	173	174	174	22130	95%	3%	3%
OLA081	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-54	58	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	65	65	0	-	-	0.0	-	173	175	-	22130	95%	3%	3%
OLA082	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	78	84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	231	0	-	-	0.0	-	174	181	-	22130	95%	3%	3%
OLA083	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	79	83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	274	0	79	83	2.0	13	174	182	182	22130	95%	3%	3%
OLA084	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	75	78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	328	0	75	78	1.6	18	174	183	182	22130	95%	3%	3%
OLA085	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	64	64	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	429	0	64	64	2.6	8	174	182	181	22130	95%	3%	3%
OLA086	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	69	1785	0	-	-	0.0	-	174	193	-	22130	95%	3%	3%
OLA087	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	54	1826	0	-	-	0.0	-	174	194	-	22130	95%	3%	3%
OLA088	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	77	1845	0	-	-	0.0	-	174	194	-	22130	95%	3%	3%
OLA089	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	2074	0	-	-	0.0	-	174	205	-	22130	95%	3%	3%
OLA090	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	74	2091	0	-	-	0.0	-	174	205	-	22130	95%	3%	3%
OLA091	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	2468	0	-	-	0.0	-	174	203	-	22130	95%	3%	3%
OLA092	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	2613	0	-	-	0.0	-	174	203	-	22130	95%	3%	3%
OLA093	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	2709	0	-	-	0.0	-	174	202	-	22130	95%	3%	3%
OLA094	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	85	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	2880	0	-	-	0.0	-	174	202	-	22130	95%	3%	3%
OLA095	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	77	77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	66	2950	0	-	-	0.0	-	174	202	-	22130	95%	3%	3%
OLA096	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	98	2969	0	-	-	0.0	-	174	202	-	22130	95%	3%	3%
OLA097	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	69	70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	3011	0	69	70	1.8	5	174	202	201	22130	95%	3%	3%
OLA098	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	67	68	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	3055	0	67	68	1.8	4	174	202	202	22130	95%	3%	3%
OLA099	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	68	69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	3190	0	-	-	0.0	-	174	201	-	22130	95%	3%	3%
OLA100	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	3642	0	-	-	0.0	-	174	202	-	22130	95%	3%	3%
OLA101	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	3712	0	-	-	0.0	-	174	201	-	22130	95%	3%	3%
OLA102	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	76	3916	0	-	-	0.0	-	174	198	-	22130	95%	3%	3%
OLA103	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-78	-77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	70	4085	0	-	-	0.0	-	174	197	-	22130	95%	3%	3%
OLA104	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-69	-68	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	99	4280	0	-	-	0.0	-	174	196	-	22130	95%	3%	3%

Start of Construction - 2030 S03_NBa Kennedy Road Highway 7 Highway 407

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	165	3937	0	-	-	0.0	-	174	209	-	29841	93%	3%	4%
OLA002	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	3885	0	-	-	0.0	-	174	207	-	29841	93%	3%	4%
OLA003	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	3878	0	81	81	2.0	4	174	207	206	29841	93%	3%	4%
OLA004	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	64	3789	0	-	-	0.0	-	174	207	-	29841	93%	3%	4%
OLA005	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	37	3743	0	81	82	2.2	5	174	208	207	29841	93%	3%	4%
OLA006	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	3699	0	-	-	0.0	-	174	207	-	29841	93%	3%	4%
OLA007	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	80	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	3712	0	80	81	2.1	5	174	208	207	29841	93%	3%	4%
OLA008	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	3628	0	-	-	0.0	-	174	207	-	29841	93%	3%	4%
OLA009	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	31	3636	0	81	81	2.1	5	174	207	207	29841	93%	3%	4%
OLA010	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	3527	0	-	-	0.0	-	174	206	-	29841	93%	3%	4%
OLA011	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	80	80	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	71	3550	0	-	-	0.0	-	174	206	-	29841	93%	3%	4%
OLA012	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	3440	0	-	-	0.0	-	174	204	-	29841	93%	3%	4%
OLA013	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	3380	0	-	-	0.0	-	174	204	-	29841	93%	3%	4%
OLA014	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	28	3379	0	81	81	2.0	4	174	203	203	29841	93%	3%	4%
OLA015	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	82	82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	3301	0	82	82	2.0	6	174	202	202	29841	93%	3%	4%
OLA016	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	74	3264	0	-	-	0.0	-	174	200	-	29841	93%	3%	4%
OLA017	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	29	3007	0	-	-	0.0	-	174	196	-	29841	93%	3%	4%
OLA018	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	2972	0	-	-	0.0	-	174	196	-	29841	93%	3%	4%
OLA019	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	54	2929	0	-	-	0.0	-	174	197	-	29841	93%	3%	4%
OLA020	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	33	2839	0	-	-	0.0	-	174	197	-	29841	93%	3%	4%
OLA021	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	2789	0	-	-	0.0	-	174	200	-	29841	93%	3%	4%
OLA022	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	2647	0	-	-	0.0	-	174	200	-	29841	93%	3%	4%
OLA023	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	78	78	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	83	2641	0	-	-	0.0	-	174	199	-	29841	93%	3%	4%
OLA024	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	80	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	2454	0	-	-	0.0	-	174	193	-	29841	93%	3%	4%
OLA025	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	2375	0	-	-	0.0	-	174	191	-	29841	93%	3%	4%
OLA026	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	74	75	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	2015	0	74	75	6.0	3	174	183	183	29841	93%	3%	4%
OLA027	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	1947	0	-	-	0.0	-	174	185	-	29841	93%	3%	4%
OLA028	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	76	77	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	1934	0	-	-	0.0	-	174	182	-	29841	93%	3%	4%
OLA029	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	1888	0	-	-	0.0	-	174	185	-	29841	93%	3%	4%
OLA030	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	1846	0	-	-	0.0	-	174	184	-	29841	93%	3%	4%
OLA031	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	52	1861	0	-	-	0.0	-	174	182	-	29841	93%	3%	4%
OLA032	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	72	1787	0	-	-	0.0	-	174	181	-	29841	93%	3%	4%
OLA033	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-72	-71	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	1762	0	-	-	0.0	-	174	182	-	29841	93%	3%	4%
OLA034	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	1767	0	-	-	0.0	-	174	182	-	29841	93%	3%	4%
OLA035	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	46	1687	0	-	-	0.0	-	174	182	-	29841	93%	3%	4%
OLA036	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-60	-59	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	1703	0	-	-	0.0	-	174	182	-	29841	93%	3%	4%
OLA037	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	1640	0	-	-	0.0	-	174	182	-	29841	93%	3%	4%
OLA038	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-49	-48	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	1649	0	-	-	0.0	-	174	182	-	29841	93%	3%	4%
OLA039	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	1596	0	-	-	0.0	-	174	181	-	29841	93%	3%	4%
OLA040	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-39	-38	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	1609	0	-	-	0.0	-	174	183	-	29841	93%	3%	4%
OLA041	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	1549	0	-	-	0.0	-	174	181	-	29841	93%	3%	4%
OLA042	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	1535	0	-	-	0.0	-	174	182	-	29841	93%	3%	4%
OLA043	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-31	-31	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	1580	0	-31	-31	1.8	12	174	183	182	29841	93%	3%	4%
OLA044	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	39	1505	0	-	-	0.0	-	174	182	-	29841	93%	3%	4%
OLA045	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	1479	0	-	-	0.0	-	174	183	-	29841	93%	3%	4%
OLA046	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-37	-37	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	1530	0	-	-	0.0	-	174	185	-	29841	93%	3%	4%
OLA047	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	1428	0	-	-	0.0	-	174	183	-	29841	93%	3%	4%
OLA048	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-54	-54	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	1425	0	-54	-54	2.0	10	174	184	184	29841	93%	3%	4%
OLA049	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-60	-59	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	1401	0	-60	-59	2.0	25	174	184	185	29841	93%	3%	4%
OLA050	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	1372	0	-	-	0.0	-	174	185	-	29841	93%	3%	4%
OLA051	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-66	-65	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	1345	0	-66	-65	2.0	11	174	184	185	29841	93%	3%	4%
OLA052	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	1317	0	-	-	0.0	-	174	185	-	29841	93%	3%	4%
OLA053	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-73	-72	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	1298	0	-73	-72	2.0	19	174	184	185	29841	93%	3%	4%
OLA054	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-84	-82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	1245	0	-84	-82	2.0	12	174	184	186	29841	93%	3%	4%
OLA055	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	1251	0	-	-	0.0	-	174	185	-	29841	93%	3%	4%
OLA056	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-85	-84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	1192	0	-85	-84	2.0	13	174	185	186	29841	93%	3%	4%
OLA057	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	1196	0	-	-	0.0	-	174	185	-	29841	93%	3%	4%
OLA058	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-85	-84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	25	1137	0	-85	-84	2.0	10	174	185	186	29841	93%	3%	4%

OLA059	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	1130	0	-	-	0.0	-	174	185	-	29841	93%	3%	4%
OLA060	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-84	-83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	1083	0	-84	-83	1.8	15	174	186	186	29841	93%	3%	4%
OLA061	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	1054	0	-	-	0.0	-	174	184	-	29841	93%	3%	4%
OLA062	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-85	-83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	21	1026	0	-85	-83	1.8	7	174	186	185	29841	93%	3%	4%
OLA063	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	24	991	0	-	-	0.0	-	174	185	-	29841	93%	3%	4%
OLA064	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-83	-81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	979	0	-83	-81	1.8	6	174	186	185	29841	93%	3%	4%
OLA065	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	30	913	0	-	-	0.0	-	174	183	-	29841	93%	3%	4%
OLA066	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	858	0	-	-	0.0	-	174	183	-	29841	93%	3%	4%
OLA067	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	804	0	-81	-78	1.8	14	174	181	182	29841	93%	3%	4%
OLA068	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	772	0	-	-	0.0	-	174	180	-	29841	93%	3%	4%
OLA069	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-80	-76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	731	0	-80	-76	1.8	31	174	181	180	29841	93%	3%	4%
OLA070	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	682	0	-81	-77	1.8	17	174	179	178	29841	93%	3%	4%
OLA071	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	679	0	-	-	0.0	-	174	178	-	29841	93%	3%	4%
OLA072	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	39	612	0	-	-	0.0	-	174	177	-	29841	93%	3%	4%
OLA073	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-80	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	598	0	-80	-75	1.9	10	174	177	177	29841	93%	3%	4%
OLA074	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	530	0	-	-	0.0	-	174	176	-	29841	93%	3%	4%
OLA075	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	513	0	-	-	0.0	-	174	175	-	29841	93%	3%	4%
OLA076	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-84	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	72	448	0	-	-	0.0	-	174	175	-	29841	93%	3%	4%
OLA077	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	66	69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	32	233	0	66	69	6.0	3	174	174	174	29841	93%	3%	4%
OLA078	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	64	206	0	-90	-83	6.0	3	174	172	172	29841	93%	3%	4%
OLA079	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	72	82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	161	0	-	-	0.0	-	174	175	-	29841	93%	3%	4%
OLA080	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	-83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	23	136	0	-89	-83	1.7	30	174	174	174	29841	93%	3%	4%
OLA081	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	58	81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	65	128	0	-	-	0.0	-	174	175	-	29841	93%	3%	4%
OLA082	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-60	78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	42	0	-60	43	1.8	15	180	181	181	29841	93%	3%	4%
OLA083	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-51	79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	30	0	-51	79	2.0	13	181	182	182	29841	93%	3%	4%
OLA084	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	19	75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	36	0	19	75	1.6	18	182	183	182	29841	93%	3%	4%
OLA085	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	64	70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	120	0	64	70	2.6	8	182	182	181	29841	93%	3%	4%
OLA086	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	69	1495	0	-	-	0.0	-	182	193	-	29841	93%	3%	4%
OLA087	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	54	1536	0	-	-	0.0	-	182	194	-	29841	93%	3%	4%
OLA088	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	77	1553	0	-	-	0.0	-	182	194	-	29841	93%	3%	4%
OLA089	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	1781	0	-	-	0.0	-	182	205	-	29841	93%	3%	4%
OLA090	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	74	1796	0	-	-	0.0	-	182	205	-	29841	93%	3%	4%
OLA091	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	2171	0	-	-	0.0	-	182	203	-	29841	93%	3%	4%
OLA092	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	2316	0	-	-	0.0	-	182	203	-	29841	93%	3%	4%
OLA093	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	2411	0	-	-	0.0	-	182	202	-	29841	93%	3%	4%
OLA094	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	85	87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	2580	0	-	-	0.0	-	182	202	-	29841	93%	3%	4%
OLA095	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	77	79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	66	2650	0	-	-	0.0	-	182	202	-	29841	93%	3%	4%
OLA096	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	98	2676	0	-	-	0.0	-	182	202	-	29841	93%	3%	4%
OLA097	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	70	71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	2714	0	70	71	1.8	5	182	202	201	29841	93%	3%	4%
OLA098	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	68	70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	2757	0	68	70	1.8	4	182	202	202	29841	93%	3%	4%
OLA099	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	69	71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	2894	0	-	-	0.0	-	182	201	-	29841	93%	3%	4%
OLA100	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	3353	0	-	-	0.0	-	182	202	-	29841	93%	3%	4%
OLA101	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	3424	0	-	-	0.0	-	182	201	-	29841	93%	3%	4%
OLA102	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	76	3630	0	-	-	0.0	-	182	198	-	29841	93%	3%	4%
OLA103	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	70	3798	0	-	-	0.0	-	182	197	-	29841	93%	3%	4%
OLA104	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-68	-67	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	99	3992	0	-	-	0.0	-	182	196	-	29841	93%	3%	4%

Start of Construction - 2030 S03_NBb Kennedy Road Highway 7 Highway 407

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	165	4246	0	-	-	0.0	-	182	209	-	29841	93%	3%	4%
OLA002	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	4194	0	-	-	0.0	-	182	207	-	29841	93%	3%	4%
OLA003	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	4187	0	81	82	2.0	4	182	207	206	29841	93%	3%	4%
OLA004	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	64	4098	0	-	-	0.0	-	182	207	-	29841	93%	3%	4%
OLA005	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	82	83	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	37	4052	0	82	83	2.2	5	182	208	207	29841	93%	3%	4%
OLA006	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	4008	0	-	-	0.0	-	182	207	-	29841	93%	3%	4%
OLA007	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	4021	0	81	82	2.1	5	182	208	207	29841	93%	3%	4%
OLA008	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	3937	0	-	-	0.0	-	182	207	-	29841	93%	3%	4%
OLA009	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	83	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	31	3945	0	81	83	2.1	5	182	207	207	29841	93%	3%	4%
OLA010	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	3836	0	-	-	0.0	-	182	206	-	29841	93%	3%	4%
OLA011	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	80	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	71	3859	0	-	-	0.0	-	182	206	-	29841	93%	3%	4%
OLA012	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	3749	0	-	-	0.0	-	182	204	-	29841	93%	3%	4%
OLA013	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	3689	0	-	-	0.0	-	182	204	-	29841	93%	3%	4%
OLA014	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	28	3688	0	81	82	2.0	4	182	203	203	29841	93%	3%	4%
OLA015	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	82	83	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	3610	0	82	83	2.0	6	182	202	202	29841	93%	3%	4%
OLA016	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	82	83	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	74	3573	0	-	-	0.0	-	182	200	-	29841	93%	3%	4%
OLA017	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	29	3316	0	-	-	0.0	-	182	196	-	29841	93%	3%	4%
OLA018	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	3281	0	-	-	0.0	-	182	196	-	29841	93%	3%	4%
OLA019	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	54	3238	0	-	-	0.0	-	182	197	-	29841	93%	3%	4%
OLA020	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	33	3147	0	-	-	0.0	-	182	197	-	29841	93%	3%	4%
OLA021	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	3098	0	-	-	0.0	-	182	200	-	29841	93%	3%	4%
OLA022	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	2956	0	-	-	0.0	-	182	200	-	29841	93%	3%	4%
OLA023	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	78	80	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	83	2948	0	-	-	0.0	-	182	199	-	29841	93%	3%	4%
OLA024	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	83	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	2761	0	-	-	0.0	-	182	193	-	29841	93%	3%	4%
OLA025	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	2683	0	-	-	0.0	-	182	191	-	29841	93%	3%	4%
OLA026	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	75	77	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	2319	0	75	77	6.0	3	182	183	183	29841	93%	3%	4%
OLA027	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	2254	0	-	-	0.0	-	182	185	-	29841	93%	3%	4%
OLA028	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	77	80	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	2239	0	-	-	0.0	-	182	182	-	29841	93%	3%	4%
OLA029	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	2194	0	-	-	0.0	-	182	185	-	29841	93%	3%	4%
OLA030	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	2152	0	-	-	0.0	-	182	184	-	29841	93%	3%	4%
OLA031	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	52	2166	0	-	-	0.0	-	182	182	-	29841	93%	3%	4%
OLA032	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	72	2091	0	-	-	0.0	-	182	181	-	29841	93%	3%	4%
OLA033	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-71	-68	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	2068	0	-	-	0.0	-	182	182	-	29841	93%	3%	4%
OLA034	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	2072	0	-	-	0.0	-	182	182	-	29841	93%	3%	4%
OLA035	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	46	1992	0	-	-	0.0	-	182	182	-	29841	93%	3%	4%
OLA036	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-59	-56	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	2010	0	-	-	0.0	-	182	182	-	29841	93%	3%	4%
OLA037	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	1946	0	-	-	0.0	-	182	182	-	29841	93%	3%	4%
OLA038	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-48	-45	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	1957	0	-	-	0.0	-	182	182	-	29841	93%	3%	4%
OLA039	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	1902	0	-	-	0.0	-	182	181	-	29841	93%	3%	4%
OLA040	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-38	-36	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	1918	0	-	-	0.0	-	182	183	-	29841	93%	3%	4%
OLA041	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	1857	0	-	-	0.0	-	182	181	-	29841	93%	3%	4%
OLA042	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	1844	0	-	-	0.0	-	182	182	-	29841	93%	3%	4%
OLA043	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-31	-29	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	1889	0	-31	-29	1.8	12	182	183	182	29841	93%	3%	4%
OLA044	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	39	1814	0	-	-	0.0	-	182	182	-	29841	93%	3%	4%
OLA045	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	1788	0	-	-	0.0	-	182	183	-	29841	93%	3%	4%
OLA046	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-37	-34	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	1839	0	-	-	0.0	-	182	185	-	29841	93%	3%	4%
OLA047	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	1737	0	-	-	0.0	-	182	183	-	29841	93%	3%	4%
OLA048	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-54	-53	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	1734	0	-54	-53	2.0	10	182	184	184	29841	93%	3%	4%
OLA049	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-60	-58	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	1710	0	-60	-58	2.0	25	182	184	185	29841	93%	3%	4%
OLA050	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	1681	0	-	-	0.0	-	182	185	-	29841	93%	3%	4%
OLA051	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-66	-64	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	1653	0	-66	-64	2.0	11	182	184	185	29841	93%	3%	4%
OLA052	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	1626	0	-	-	0.0	-	182	185	-	29841	93%	3%	4%
OLA053	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-73	-71	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	1606	0	-73	-71	2.0	19	182	184	185	29841	93%	3%	4%
OLA054	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-84	-82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	1553	0	-84	-82	2.0	12	182	184	186	29841	93%	3%	4%
OLA055	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	1560	0	-	-	0.0	-	182	185	-	29841	93%	3%	4%
OLA056	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-85	-83	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	1500	0	-85	-83	2.0	13	182	185	186	29841	93%	3%	4%
OLA057	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	1505	0	-	-	0.0	-	182	185	-	29841	93%	3%	4%
OLA058	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-85	-83	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	25	1444	0	-85	-83	2.0	10	182	185	186	29841	93%	3%	4%

OLA059	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	1439	0	-	-	0.0	-	182	185	-	29841	93%	3%	4%
OLA060	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-84	-82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	1390	0	-84	-82	1.8	15	182	186	186	29841	93%	3%	4%
OLA061	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	1363	0	-	-	0.0	-	182	184	-	29841	93%	3%	4%
OLA062	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-85	-82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	21	1333	0	-85	-82	1.8	7	182	186	185	29841	93%	3%	4%
OLA063	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	24	1299	0	-	-	0.0	-	182	185	-	29841	93%	3%	4%
OLA064	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-83	-81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	1286	0	-83	-81	1.8	6	182	186	185	29841	93%	3%	4%
OLA065	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	30	1221	0	-	-	0.0	-	182	183	-	29841	93%	3%	4%
OLA066	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	1166	0	-	-	0.0	-	182	183	-	29841	93%	3%	4%
OLA067	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	1109	0	-81	-79	1.8	14	182	181	182	29841	93%	3%	4%
OLA068	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	1081	0	-	-	0.0	-	182	180	-	29841	93%	3%	4%
OLA069	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-80	-78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	1035	0	-80	-78	1.8	31	182	181	180	29841	93%	3%	4%
OLA070	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	986	0	-81	-78	1.8	17	182	179	178	29841	93%	3%	4%
OLA071	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	988	0	-	-	0.0	-	182	178	-	29841	93%	3%	4%
OLA072	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	39	920	0	-	-	0.0	-	182	177	-	29841	93%	3%	4%
OLA073	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-80	-78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	901	0	-80	-78	1.9	10	182	177	177	29841	93%	3%	4%
OLA074	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	838	0	-	-	0.0	-	182	176	-	29841	93%	3%	4%
OLA075	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	811	0	-	-	0.0	-	182	175	-	29841	93%	3%	4%
OLA076	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-84	-81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	72	745	0	-	-	0.0	-	182	175	-	29841	93%	3%	4%
OLA077	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	69	75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	32	542	0	69	75	6.0	3	182	174	174	29841	93%	3%	4%
OLA078	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	64	508	0	-	-	0.0	-	182	172	-	29841	93%	3%	4%
OLA079	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	82	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	466	0	-	-	0.0	-	182	175	-	29841	93%	3%	4%
OLA080	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	-83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	23	445	0	-89	-83	1.7	30	182	174	174	29841	93%	3%	4%
OLA081	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	81	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	65	424	0	-	-	0.0	-	182	175	-	29841	93%	3%	4%
OLA082	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-63	-60	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	96	0	-63	-60	1.8	15	182	181	181	29841	93%	3%	4%
OLA083	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-65	-51	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	52	0	-65	-51	2.0	13	182	182	182	29841	93%	3%	4%
OLA084	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-63	19	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	34	0	-63	19	1.6	18	182	183	182	29841	93%	3%	4%
OLA085	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-59	70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	27	0	-59	70	2.6	8	180	182	181	29841	93%	3%	4%
OLA086	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	69	1330	0	-	-	0.0	-	179	193	-	29841	93%	3%	4%
OLA087	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	54	1371	0	-	-	0.0	-	179	194	-	29841	93%	3%	4%
OLA088	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	77	1388	0	-	-	0.0	-	179	194	-	29841	93%	3%	4%
OLA089	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	1617	0	-	-	0.0	-	179	205	-	29841	93%	3%	4%
OLA090	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	74	1632	0	-	-	0.0	-	179	205	-	29841	93%	3%	4%
OLA091	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	2007	0	-	-	0.0	-	179	203	-	29841	93%	3%	4%
OLA092	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	2152	0	-	-	0.0	-	179	203	-	29841	93%	3%	4%
OLA093	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	2248	0	-	-	0.0	-	179	202	-	29841	93%	3%	4%
OLA094	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	86	87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	2418	0	-	-	0.0	-	179	202	-	29841	93%	3%	4%
OLA095	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	78	79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	66	2488	0	-	-	0.0	-	179	202	-	29841	93%	3%	4%
OLA096	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	98	2512	0	-	-	0.0	-	179	202	-	29841	93%	3%	4%
OLA097	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	71	71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	2551	0	71	71	1.8	5	179	202	201	29841	93%	3%	4%
OLA098	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	69	70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	2594	0	69	70	1.8	4	179	202	202	29841	93%	3%	4%
OLA099	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	70	71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	2730	0	-	-	0.0	-	179	201	-	29841	93%	3%	4%
OLA100	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	3188	0	-	-	0.0	-	179	202	-	29841	93%	3%	4%
OLA101	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	3259	0	-	-	0.0	-	179	201	-	29841	93%	3%	4%
OLA102	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	76	3465	0	-	-	0.0	-	179	198	-	29841	93%	3%	4%
OLA103	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	70	3633	0	-	-	0.0	-	179	197	-	29841	93%	3%	4%
OLA104	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-67	-67	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	99	3827	0	-	-	0.0	-	179	196	-	29841	93%	3%	4%

Start of Construction - 2030 S03_NBc Kennedy Road Highway 7 Highway 407

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	165	4397	0	-90	-88	2.0	7	179	209	209	29841	93%	3%	4%
OLA002	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	4343	0	-	-	0.0	-	179	207	-	29841	93%	3%	4%
OLA003	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	82	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	4334	0	82	89	2.0	4	179	207	206	29841	93%	3%	4%
OLA004	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	82	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	64	4244	0	-	-	0.0	-	179	207	-	29841	93%	3%	4%
OLA005	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	83	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	37	4199	0	83	90	2.2	5	179	208	207	29841	93%	3%	4%
OLA006	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	4156	0	-90	-90	2.1	6	179	207	207	29841	93%	3%	4%
OLA007	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	82	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	4168	0	82	89	2.1	5	179	208	207	29841	93%	3%	4%
OLA008	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	4085	0	-	-	0.0	-	179	207	-	29841	93%	3%	4%
OLA009	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	83	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	31	4091	0	83	90	2.1	5	179	207	207	29841	93%	3%	4%
OLA010	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	3984	0	-90	-90	1.9	8	179	206	206	29841	93%	3%	4%
OLA011	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	71	4004	0	-	-	0.0	-	179	206	-	29841	93%	3%	4%
OLA012	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	3896	0	-90	-89	2.4	7	179	204	204	29841	93%	3%	4%
OLA013	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	3837	0	-	-	0.0	-	179	204	-	29841	93%	3%	4%
OLA014	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	82	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	28	3833	0	82	90	2.0	4	179	203	203	29841	93%	3%	4%
OLA015	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	83	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	3756	0	83	90	2.0	6	179	202	202	29841	93%	3%	4%
OLA016	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	83	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	74	3717	0	-	-	0.0	-	179	200	-	29841	93%	3%	4%
OLA017	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	29	3462	0	-90	-88	1.9	7	179	196	196	29841	93%	3%	4%
OLA018	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	3427	0	-90	-88	1.9	2	179	196	196	29841	93%	3%	4%
OLA019	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	54	3384	0	-	-	0.0	-	179	197	-	29841	93%	3%	4%
OLA020	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	33	3293	0	-90	-87	2.0	8	179	197	197	29841	93%	3%	4%
OLA021	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	3244	0	-	-	0.0	-	179	200	-	29841	93%	3%	4%
OLA022	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	3101	0	-90	-85	9.0	3	179	200	200	29841	93%	3%	4%
OLA023	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	80	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	83	3090	0	-	-	0.0	-	179	199	-	29841	93%	3%	4%
OLA024	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	83	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	2903	0	-	-	0.0	-	179	193	-	29841	93%	3%	4%
OLA025	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	2827	0	-90	-86	1.8	5	179	191	192	29841	93%	3%	4%
OLA026	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	77	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	2457	0	77	90	6.0	3	179	183	183	29841	93%	3%	4%
OLA027	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	2395	0	-90	-90	2.5	26	179	185	184	29841	93%	3%	4%
OLA028	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	80	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	2377	0	-	-	0.0	-	179	182	-	29841	93%	3%	4%
OLA029	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-80	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	2335	0	-	-	0.0	-	179	185	-	29841	93%	3%	4%
OLA030	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	-75	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	2293	0	-	-	0.0	-	179	184	-	29841	93%	3%	4%
OLA031	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	52	2303	0	-	-	0.0	-	179	182	-	29841	93%	3%	4%
OLA032	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	72	2227	0	-	-	0.0	-	179	181	-	29841	93%	3%	4%
OLA033	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-68	-55	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	2209	0	-	-	0.0	-	179	182	-	29841	93%	3%	4%
OLA034	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	2210	0	-	-	0.0	-	179	182	-	29841	93%	3%	4%
OLA035	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	46	2131	0	-	-	0.0	-	179	182	-	29841	93%	3%	4%
OLA036	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-56	-43	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	2152	0	-	-	0.0	-	179	182	-	29841	93%	3%	4%
OLA037	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	2086	0	-	-	0.0	-	179	182	-	29841	93%	3%	4%
OLA038	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-45	-32	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	2100	0	-	-	0.0	-	179	182	-	29841	93%	3%	4%
OLA039	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	2044	0	-	-	0.0	-	179	181	-	29841	93%	3%	4%
OLA040	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-36	-23	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	2063	0	-	-	0.0	-	179	183	-	29841	93%	3%	4%
OLA041	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	2001	0	-	-	0.0	-	179	181	-	29841	93%	3%	4%
OLA042	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	1988	0	-	-	0.0	-	179	182	-	29841	93%	3%	4%
OLA043	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-29	-16	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	2036	0	-29	-16	1.8	12	179	183	182	29841	93%	3%	4%
OLA044	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	39	1961	0	-	-	0.0	-	179	182	-	29841	93%	3%	4%
OLA045	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	1936	0	-	-	0.0	-	179	183	-	29841	93%	3%	4%
OLA046	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-34	-23	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	1989	0	-	-	0.0	-	179	185	-	29841	93%	3%	4%
OLA047	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	1887	0	-	-	0.0	-	179	183	-	29841	93%	3%	4%
OLA048	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-53	-41	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	1888	0	-53	-41	2.0	10	179	184	184	29841	93%	3%	4%
OLA049	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-58	-47	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	1865	0	-58	-47	2.0	25	179	184	185	29841	93%	3%	4%
OLA050	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	1833	0	-	-	0.0	-	179	185	-	29841	93%	3%	4%
OLA051	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-64	-53	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	1808	0	-64	-53	2.0	11	179	184	185	29841	93%	3%	4%
OLA052	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	1779	0	-	-	0.0	-	179	185	-	29841	93%	3%	4%
OLA053	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-71	-60	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	1762	0	-71	-60	2.0	19	179	184	185	29841	93%	3%	4%
OLA054	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-82	-70	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	1709	0	-82	-70	2.0	12	179	184	186	29841	93%	3%	4%
OLA055	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	1714	0	-	-	0.0	-	179	185	-	29841	93%	3%	4%
OLA056	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-83	-72	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	1656	0	-83	-72	2.0	13	179	185	186	29841	93%	3%	4%
OLA057	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	1659	0	-	-	0.0	-	179	185	-	29841	93%	3%	4%
OLA058	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-83	-71	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	25	1601	0	-83	-71	2.0	10	179	185	186	29841	93%	3%	4%

OLA059	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	1593	0	-	-	0.0	-	179	185	-	29841	93%	3%	4%
OLA060	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-82	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	1547	0	-82	-71	1.8	15	179	186	186	29841	93%	3%	4%
OLA061	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	1517	0	-	-	0.0	-	179	184	-	29841	93%	3%	4%
OLA062	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-82	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	21	1490	0	-82	-71	1.8	7	179	186	185	29841	93%	3%	4%
OLA063	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	24	1454	0	-	-	0.0	-	179	185	-	29841	93%	3%	4%
OLA064	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	1444	0	-81	-69	1.8	6	179	186	185	29841	93%	3%	4%
OLA065	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	30	1376	0	-	-	0.0	-	179	183	-	29841	93%	3%	4%
OLA066	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	1321	0	-	-	0.0	-	179	183	-	29841	93%	3%	4%
OLA067	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-79	-67	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	1268	0	-79	-67	1.8	14	179	181	182	29841	93%	3%	4%
OLA068	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	1236	0	-	-	0.0	-	179	180	-	29841	93%	3%	4%
OLA069	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-78	-66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	1195	0	-78	-66	1.8	31	179	181	180	29841	93%	3%	4%
OLA070	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-78	-66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	1146	0	-78	-66	1.8	17	179	179	178	29841	93%	3%	4%
OLA071	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	1144	0	-	-	0.0	-	179	178	-	29841	93%	3%	4%
OLA072	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	39	1076	0	-	-	0.0	-	179	177	-	29841	93%	3%	4%
OLA073	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-78	-65	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	1061	0	-78	-65	1.9	10	179	177	177	29841	93%	3%	4%
OLA074	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	994	0	-	-	0.0	-	179	176	-	29841	93%	3%	4%
OLA075	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-63	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	973	0	-	-	0.0	-	179	175	-	29841	93%	3%	4%
OLA076	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	72	907	0	-	-	0.0	-	179	175	-	29841	93%	3%	4%
OLA077	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	75	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	32	693	0	75	90	6.0	3	179	174	174	29841	93%	3%	4%
OLA078	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	64	667	0	-90	-75	6.0	3	179	172	172	29841	93%	3%	4%
OLA079	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	614	0	-	-	0.0	-	179	175	-	29841	93%	3%	4%
OLA080	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-83	-65	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	23	601	0	-83	-76	1.7	30	179	174	174	29841	93%	3%	4%
OLA081	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	65	568	0	-	-	0.0	-	179	175	-	29841	93%	3%	4%
OLA082	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-63	-55	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	261	0	-63	-55	1.8	15	179	181	181	29841	93%	3%	4%
OLA083	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-65	-58	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	215	0	-65	-58	2.0	13	179	182	182	29841	93%	3%	4%
OLA084	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-63	-62	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	167	0	-63	-62	1.6	18	179	183	182	29841	93%	3%	4%
OLA085	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-80	-59	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	60	0	-80	-59	2.6	8	179	182	181	29841	93%	3%	4%
OLA086	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	71	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	69	459	0	71	90	2.0	19	189	193	194	29841	93%	3%	4%
OLA087	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	74	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	54	491	0	74	90	2.0	55	189	194	194	29841	93%	3%	4%
OLA088	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	73	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	77	521	0	73	90	6.0	21	189	194	194	29841	93%	3%	4%
OLA089	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	80	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	735	0	-	-	0.0	-	189	205	-	29841	93%	3%	4%
OLA090	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	77	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	74	767	0	-	-	0.0	-	189	205	-	29841	93%	3%	4%
OLA091	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	84	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	1134	0	-	-	0.0	-	189	203	-	29841	93%	3%	4%
OLA092	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	85	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	1278	0	-	-	0.0	-	189	203	-	29841	93%	3%	4%
OLA093	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	85	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	1376	0	85	90	1.7	17	189	202	201	29841	93%	3%	4%
OLA094	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	72	86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	1547	0	-	-	0.0	-	189	202	-	29841	93%	3%	4%
OLA095	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	65	78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	66	1617	0	-	-	0.0	-	189	202	-	29841	93%	3%	4%
OLA096	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	98	1601	0	-	-	0.0	-	189	202	-	29841	93%	3%	4%
OLA097	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	58	71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	1664	0	58	71	1.8	5	189	202	201	29841	93%	3%	4%
OLA098	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	57	69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	1709	0	57	69	1.8	4	189	202	202	29841	93%	3%	4%
OLA099	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	59	70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	1830	0	-	-	0.0	-	189	201	-	29841	93%	3%	4%
OLA100	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	2248	0	-	-	0.0	-	189	202	-	29841	93%	3%	4%
OLA101	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	2317	0	-	-	0.0	-	189	201	-	29841	93%	3%	4%
OLA102	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	76	2513	0	-	-	0.0	-	189	198	-	29841	93%	3%	4%
OLA103	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	70	2683	0	-	-	0.0	-	189	197	-	29841	93%	3%	4%
OLA104	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-72	-67	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	99	2880	0	-	-	0.0	-	189	196	-	29841	93%	3%	4%

Start of Construction - 2030 S04_NB Kennedy Road Highway 407 14th Avenue

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	165	5230	0	-90	-88	2.0	7	189	209	209	24432	93%	4%	3%
OLA002	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	5163	0	-	-	0.0	-	189	207	-	24432	93%	4%	3%
OLA003	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	5143	0	89	89	2.0	4	189	207	206	24432	93%	4%	3%
OLA004	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	88	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	64	5049	0	-	-	0.0	-	189	207	-	24432	93%	4%	3%
OLA005	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	37	5007	0	89	90	2.2	5	189	208	207	24432	93%	4%	3%
OLA006	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	4972	0	-90	-90	2.1	6	189	207	207	24432	93%	4%	3%
OLA007	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	88	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	4975	0	88	89	2.1	5	189	208	207	24432	93%	4%	3%
OLA008	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	4901	0	-	-	0.0	-	189	207	-	24432	93%	4%	3%
OLA009	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	31	4899	0	89	90	2.1	5	189	207	207	24432	93%	4%	3%
OLA010	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	4800	0	-90	-90	1.9	8	189	206	206	24432	93%	4%	3%
OLA011	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	88	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	71	4805	0	-	-	0.0	-	189	206	-	24432	93%	4%	3%
OLA012	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	4711	0	-90	-89	2.4	7	189	204	204	24432	93%	4%	3%
OLA013	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	4653	0	-	-	0.0	-	189	204	-	24432	93%	4%	3%
OLA014	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	28	4639	0	89	90	2.0	4	189	203	203	24432	93%	4%	3%
OLA015	60	2.3%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	4560	0	-	-	0.0	-	189	202	-	24432	93%	4%	3%
OLA016	60	2.3%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	74	4515	0	-	-	0.0	-	189	200	-	24432	93%	4%	3%
OLA017	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	29	4273	0	-89	-88	1.9	7	189	196	196	24432	93%	4%	3%
OLA018	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	4238	0	-89	-88	1.9	2	189	196	196	24432	93%	4%	3%
OLA019	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	54	4199	0	-	-	0.0	-	189	197	-	24432	93%	4%	3%
OLA020	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	33	4104	0	-89	-87	2.0	8	189	197	197	24432	93%	4%	3%
OLA021	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	-87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	4059	0	-	-	0.0	-	189	200	-	24432	93%	4%	3%
OLA022	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	-85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	3912	0	-86	-85	9.0	3	189	200	200	24432	93%	4%	3%
OLA023	60	4.3%	2 Manual	1 Typical Asphalt or Concrete	89	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	83	3880	0	-	-	0.0	-	189	199	-	24432	93%	4%	3%
OLA024	60	4.3%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	3697	0	-	-	0.0	-	189	193	-	24432	93%	4%	3%
OLA025	60	4.3%	2 Manual	1 Typical Asphalt or Concrete	-87	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	3633	0	-87	-86	1.8	5	189	191	192	24432	93%	4%	3%
OLA026	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	3238	0	89	90	6.0	3	189	183	183	24432	93%	4%	3%
OLA027	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	3197	0	-90	-90	2.5	26	189	185	184	24432	93%	4%	3%
OLA028	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	3160	0	-	-	0.0	-	189	182	-	24432	93%	4%	3%
OLA029	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-82	-80	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	3138	0	-	-	0.0	-	189	185	-	24432	93%	4%	3%
OLA030	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-77	-75	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	3096	0	-	-	0.0	-	189	184	-	24432	93%	4%	3%
OLA031	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	52	3084	0	-	-	0.0	-	189	182	-	24432	93%	4%	3%
OLA032	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	72	3007	0	-	-	0.0	-	189	181	-	24432	93%	4%	3%
OLA033	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-57	-55	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	3015	0	-	-	0.0	-	189	182	-	24432	93%	4%	3%
OLA034	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	2998	0	-	-	0.0	-	189	182	-	24432	93%	4%	3%
OLA035	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	46	2928	0	-	-	0.0	-	189	182	-	24432	93%	4%	3%
OLA036	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-45	-43	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	2965	0	-	-	0.0	-	189	182	-	24432	93%	4%	3%
OLA037	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	2892	0	-	-	0.0	-	189	182	-	24432	93%	4%	3%
OLA038	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-35	-32	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	2923	0	-	-	0.0	-	189	182	-	24432	93%	4%	3%
OLA039	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	2859	0	-	-	0.0	-	189	181	-	24432	93%	4%	3%
OLA040	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-26	-23	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	2896	0	-	-	0.0	-	189	183	-	24432	93%	4%	3%
OLA041	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	2829	0	-	-	0.0	-	189	181	-	24432	93%	4%	3%
OLA042	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	2823	0	-	-	0.0	-	189	182	-	24432	93%	4%	3%
OLA043	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-19	-16	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	2881	0	-19	-16	1.8	12	189	183	182	24432	93%	4%	3%
OLA044	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	39	2807	0	-	-	0.0	-	189	182	-	24432	93%	4%	3%
OLA045	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	2791	0	-	-	0.0	-	189	183	-	24432	93%	4%	3%
OLA046	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-26	-23	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	2853	0	-	-	0.0	-	189	185	-	24432	93%	4%	3%
OLA047	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	2754	0	-	-	0.0	-	189	183	-	24432	93%	4%	3%
OLA048	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-45	-41	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	2776	0	-45	-41	2.0	10	189	184	184	24432	93%	4%	3%
OLA049	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-51	-47	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	2757	0	-51	-47	2.0	25	189	184	185	24432	93%	4%	3%
OLA050	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	2713	0	-	-	0.0	-	189	185	-	24432	93%	4%	3%
OLA051	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-57	-53	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	2705	0	-57	-53	2.0	11	189	184	185	24432	93%	4%	3%
OLA052	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	2665	0	-	-	0.0	-	189	185	-	24432	93%	4%	3%
OLA053	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-64	-60	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	2665	0	-64	-60	2.0	19	189	184	185	24432	93%	4%	3%
OLA054	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-75	-70	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	2614	0	-75	-70	2.0	12	189	184	186	24432	93%	4%	3%
OLA055	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	2604	0	-	-	0.0	-	189	185	-	24432	93%	4%	3%
OLA056	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-76	-72	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	2563	0	-76	-72	2.0	13	189	185	186	24432	93%	4%	3%
OLA057	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	2551	0	-	-	0.0	-	189	185	-	24432	93%	4%	3%
OLA058	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-76	-71	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	25	2510	0	-76	-71	2.0	10	189	185	186	24432	93%	4%	3%

OLA059	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	2490	0	-	-	0.0	-	189	185	-	24432	93%	4%	3%
OLA060	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-76	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	2460	0	-76	-71	1.8	15	189	186	186	24432	93%	4%	3%
OLA061	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	2416	0	-	-	0.0	-	189	184	-	24432	93%	4%	3%
OLA062	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-76	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	21	2404	0	-76	-71	1.8	7	189	186	185	24432	93%	4%	3%
OLA063	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	24	2360	0	-	-	0.0	-	189	185	-	24432	93%	4%	3%
OLA064	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	2365	0	-75	-69	1.8	6	189	186	185	24432	93%	4%	3%
OLA065	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	30	2285	0	-	-	0.0	-	189	183	-	24432	93%	4%	3%
OLA066	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	2230	0	-	-	0.0	-	189	183	-	24432	93%	4%	3%
OLA067	60	2.5%	2	Manual	1	Typical Asphalt or Concrete	-73	-67	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	2201	0	-73	-67	1.8	14	189	181	182	24432	93%	4%	3%
OLA068	60	2.5%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	2151	0	-	-	0.0	-	189	180	-	24432	93%	4%	3%
OLA069	60	2.5%	2	Manual	1	Typical Asphalt or Concrete	-72	-66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	2132	0	-72	-66	1.8	31	189	181	180	24432	93%	4%	3%
OLA070	60	2.5%	2	Manual	1	Typical Asphalt or Concrete	-73	-66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	2083	0	-73	-66	1.8	17	189	179	178	24432	93%	4%	3%
OLA071	60	2.5%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	2064	0	-	-	0.0	-	189	178	-	24432	93%	4%	3%
OLA072	60	2.5%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	39	2000	0	-	-	0.0	-	189	177	-	24432	93%	4%	3%
OLA073	60	2.5%	2	Manual	1	Typical Asphalt or Concrete	-72	-65	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	2003	0	-72	-65	1.9	10	189	177	177	24432	93%	4%	3%
OLA074	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	1921	0	-	-	0.0	-	189	176	-	24432	93%	4%	3%
OLA075	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-71	-63	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	1926	0	-	-	0.0	-	189	175	-	24432	93%	4%	3%
OLA076	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-78	-69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	72	1864	0	-	-	0.0	-	189	175	-	24432	93%	4%	3%
OLA077	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	87	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	32	1618	0	87	90	6.0	3	189	174	174	24432	93%	4%	3%
OLA078	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-84	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	64	1622	0	-84	-75	6.0	3	189	172	172	24432	93%	4%	3%
OLA079	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	1537	0	-	-	0.0	-	189	175	-	24432	93%	4%	3%
OLA080	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-74	-65	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	23	1548	0	-	-	0.0	-	189	174	-	24432	93%	4%	3%
OLA081	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	65	1486	0	-	-	0.0	-	189	175	-	24432	93%	4%	3%
OLA082	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-69	-55	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	1253	0	-69	-55	1.8	15	189	181	181	24432	93%	4%	3%
OLA083	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-72	-58	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	1208	0	-72	-58	2.0	13	189	182	182	24432	93%	4%	3%
OLA084	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-78	-62	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	1162	0	-78	-62	1.6	18	189	183	182	24432	93%	4%	3%
OLA085	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	1051	0	-90	-80	2.6	8	189	182	181	24432	93%	4%	3%
OLA086	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-79	71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	69	69	0	13	71	2.0	19	190	193	194	24432	93%	4%	3%
OLA087	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	54	54	0	52	74	2.0	55	192	194	194	24432	93%	4%	3%
OLA088	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-76	73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	77	77	0	40	73	6.0	21	193	194	194	24432	93%	4%	3%
OLA089	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-56	80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	38	0	-55	40	3.0	3	204	205	205	24432	93%	4%	3%
OLA090	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-23	77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	74	74	0	-	-	0.0	-	204	205	-	24432	93%	4%	3%
OLA091	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	84	84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	348	0	-	-	0.0	-	204	203	-	24432	93%	4%	3%
OLA092	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	85	87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	493	0	-	-	0.0	-	204	203	-	24432	93%	4%	3%
OLA093	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	85	86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	591	0	85	86	1.7	17	204	202	201	24432	93%	4%	3%
OLA094	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	72	74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	762	0	-	-	0.0	-	204	202	-	24432	93%	4%	3%
OLA095	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	65	67	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	66	833	0	-	-	0.0	-	204	202	-	24432	93%	4%	3%
OLA096	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	98	833	0	-	-	0.0	-	204	202	-	24432	93%	4%	3%
OLA097	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	58	62	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	884	0	58	62	1.8	5	204	202	201	24432	93%	4%	3%
OLA098	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	57	61	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	928	0	57	61	1.8	4	204	202	202	24432	93%	4%	3%
OLA099	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	59	65	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	1056	0	-	-	0.0	-	204	201	-	24432	93%	4%	3%
OLA100	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	1507	0	-	-	0.0	-	204	202	-	24432	93%	4%	3%
OLA101	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	1579	0	-	-	0.0	-	204	201	-	24432	93%	4%	3%
OLA102	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	76	1787	0	-	-	0.0	-	204	198	-	24432	93%	4%	3%
OLA103	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	70	1954	0	-	-	0.0	-	204	197	-	24432	93%	4%	3%
OLA104	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-72	-66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	99	2147	0	-	-	0.0	-	204	196	-	24432	93%	4%	3%

Start of Construction - 2030 S05_NBa Kennedy Road 14th Avenue Denison Street

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	165	6008	0	-90	-90	2.0	7	204	209	209	22100	93%	4%	3%
OLA002	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	5942	0	-	-	0.0	-	204	207	-	22100	93%	4%	3%
OLA003	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	5924	0	-	-	0.0	-	204	207	-	22100	93%	4%	3%
OLA004	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	88	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	64	5830	0	-	-	0.0	-	204	207	-	22100	93%	4%	3%
OLA005	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	37	5788	0	-	-	0.0	-	204	208	-	22100	93%	4%	3%
OLA006	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	5752	0	-	-	0.0	-	204	207	-	22100	93%	4%	3%
OLA007	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	88	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	5756	0	88	88	2.1	5	204	208	207	22100	93%	4%	3%
OLA008	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	5681	0	-	-	0.0	-	204	207	-	22100	93%	4%	3%
OLA009	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	31	5680	0	-	-	0.0	-	204	207	-	22100	93%	4%	3%
OLA010	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	5580	0	-	-	0.0	-	204	206	-	22100	93%	4%	3%
OLA011	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	88	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	71	5587	0	-	-	0.0	-	204	206	-	22100	93%	4%	3%
OLA012	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	5491	0	-	-	0.0	-	204	204	-	22100	93%	4%	3%
OLA013	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	5432	0	-	-	0.0	-	204	204	-	22100	93%	4%	3%
OLA014	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	28	5420	0	-	-	0.0	-	204	203	-	22100	93%	4%	3%
OLA015	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	5341	0	-	-	0.0	-	204	202	-	22100	93%	4%	3%
OLA016	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	74	5297	0	-	-	0.0	-	204	200	-	22100	93%	4%	3%
OLA017	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	29	5053	0	-	-	0.0	-	204	196	-	22100	93%	4%	3%
OLA018	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	5018	0	-89	-89	1.9	2	204	196	196	22100	93%	4%	3%
OLA019	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	54	4978	0	-	-	0.0	-	204	197	-	22100	93%	4%	3%
OLA020	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	33	4883	0	-	-	0.0	-	204	197	-	22100	93%	4%	3%
OLA021	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	-88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	4838	0	-	-	0.0	-	204	200	-	22100	93%	4%	3%
OLA022	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	4691	0	-	-	0.0	-	204	200	-	22100	93%	4%	3%
OLA023	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	83	4662	0	-	-	0.0	-	204	199	-	22100	93%	4%	3%
OLA024	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	4479	0	-	-	0.0	-	204	193	-	22100	93%	4%	3%
OLA025	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	-87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	4413	0	-	-	0.0	-	204	191	-	22100	93%	4%	3%
OLA026	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	4019	0	89	89	6.0	3	204	183	183	22100	93%	4%	3%
OLA027	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	3976	0	-	-	0.0	-	204	185	-	22100	93%	4%	3%
OLA028	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	3941	0	-	-	0.0	-	204	182	-	22100	93%	4%	3%
OLA029	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-82	-82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	3917	0	-	-	0.0	-	204	185	-	22100	93%	4%	3%
OLA030	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-77	-77	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	3875	0	-	-	0.0	-	204	184	-	22100	93%	4%	3%
OLA031	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	52	3865	0	-	-	0.0	-	204	182	-	22100	93%	4%	3%
OLA032	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	72	3788	0	-	-	0.0	-	204	181	-	22100	93%	4%	3%
OLA033	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-57	-57	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	3793	0	-	-	0.0	-	204	182	-	22100	93%	4%	3%
OLA034	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	3779	0	-	-	0.0	-	204	182	-	22100	93%	4%	3%
OLA035	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	46	3707	0	-	-	0.0	-	204	182	-	22100	93%	4%	3%
OLA036	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-46	-45	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	3742	0	-	-	0.0	-	204	182	-	22100	93%	4%	3%
OLA037	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	3670	0	-	-	0.0	-	204	182	-	22100	93%	4%	3%
OLA038	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-35	-35	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	3698	0	-	-	0.0	-	204	182	-	22100	93%	4%	3%
OLA039	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	3635	0	-	-	0.0	-	204	181	-	22100	93%	4%	3%
OLA040	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-26	-26	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	3669	0	-	-	0.0	-	204	183	-	22100	93%	4%	3%
OLA041	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	3602	0	-	-	0.0	-	204	181	-	22100	93%	4%	3%
OLA042	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	3595	0	-	-	0.0	-	204	182	-	22100	93%	4%	3%
OLA043	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-19	-19	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	3651	0	-19	-19	1.8	12	204	183	182	22100	93%	4%	3%
OLA044	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	39	3577	0	-	-	0.0	-	204	182	-	22100	93%	4%	3%
OLA045	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	3559	0	-	-	0.0	-	204	183	-	22100	93%	4%	3%
OLA046	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-26	-26	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	3619	0	-	-	0.0	-	204	185	-	22100	93%	4%	3%
OLA047	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	3519	0	-	-	0.0	-	204	183	-	22100	93%	4%	3%
OLA048	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-46	-45	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	3535	0	-46	-45	2.0	10	204	184	184	22100	93%	4%	3%
OLA049	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-52	-51	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	3514	0	-52	-51	2.0	25	204	184	185	22100	93%	4%	3%
OLA050	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	3474	0	-	-	0.0	-	204	185	-	22100	93%	4%	3%
OLA051	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-59	-57	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	3460	0	-59	-57	2.0	11	204	184	185	22100	93%	4%	3%
OLA052	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	3424	0	-	-	0.0	-	204	185	-	22100	93%	4%	3%
OLA053	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-66	-64	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	3417	0	-66	-64	2.0	19	204	184	185	22100	93%	4%	3%
OLA054	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-76	-75	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	3366	0	-76	-75	2.0	12	204	184	186	22100	93%	4%	3%
OLA055	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	3361	0	-	-	0.0	-	204	185	-	22100	93%	4%	3%
OLA056	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-78	-76	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	3314	0	-78	-76	2.0	13	204	185	186	22100	93%	4%	3%
OLA057	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	3307	0	-	-	0.0	-	204	185	-	22100	93%	4%	3%
OLA058	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-78	-76	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	25	3260	0	-78	-76	2.0	10	204	185	186	22100	93%	4%	3%

OLA059	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	3244	0	-	-	0.0	-	204	185	-	22100	93%	4%	3%
OLA060	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	3208	0	-77	-76	1.8	15	204	186	186	22100	93%	4%	3%
OLA061	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	3169	0	-	-	0.0	-	204	184	-	22100	93%	4%	3%
OLA062	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	21	3151	0	-77	-76	1.8	7	204	186	185	22100	93%	4%	3%
OLA063	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	24	3110	0	-	-	0.0	-	204	185	-	22100	93%	4%	3%
OLA064	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-76	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	3108	0	-76	-75	1.8	6	204	186	185	22100	93%	4%	3%
OLA065	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	30	3033	0	-	-	0.0	-	204	183	-	22100	93%	4%	3%
OLA066	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	2978	0	-	-	0.0	-	204	183	-	22100	93%	4%	3%
OLA067	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	2938	0	-75	-73	1.8	14	204	181	182	22100	93%	4%	3%
OLA068	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	2896	0	-	-	0.0	-	204	180	-	22100	93%	4%	3%
OLA069	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	2866	0	-75	-72	1.8	31	204	181	180	22100	93%	4%	3%
OLA070	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	2817	0	-75	-73	1.8	17	204	179	178	22100	93%	4%	3%
OLA071	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	2806	0	-	-	0.0	-	204	178	-	22100	93%	4%	3%
OLA072	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	39	2740	0	-	-	0.0	-	204	177	-	22100	93%	4%	3%
OLA073	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	2734	0	-75	-72	1.9	10	204	177	177	22100	93%	4%	3%
OLA074	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	2659	0	-	-	0.0	-	204	176	-	22100	93%	4%	3%
OLA075	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-74	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	2650	0	-	-	0.0	-	204	175	-	22100	93%	4%	3%
OLA076	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-80	-78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	72	2585	0	-	-	0.0	-	204	175	-	22100	93%	4%	3%
OLA077	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	84	87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	32	2353	0	84	87	6.0	3	204	174	174	22100	93%	4%	3%
OLA078	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	64	2343	0	-87	-84	6.0	3	204	172	172	22100	93%	4%	3%
OLA079	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	2272	0	-	-	0.0	-	204	175	-	22100	93%	4%	3%
OLA080	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	23	2272	0	-77	-76	1.7	30	204	174	174	22100	93%	4%	3%
OLA081	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	65	2222	0	-	-	0.0	-	204	175	-	22100	93%	4%	3%
OLA082	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	1941	0	-73	-69	1.8	15	204	181	181	22100	93%	4%	3%
OLA083	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	1894	0	-77	-72	2.0	13	204	182	182	22100	93%	4%	3%
OLA084	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-82	-78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	1842	0	-82	-78	1.6	18	204	183	182	22100	93%	4%	3%
OLA085	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	1729	0	-	-	0.0	-	204	182	-	22100	93%	4%	3%
OLA086	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	-79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	69	353	0	-	-	0.0	-	204	193	-	22100	93%	4%	3%
OLA087	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	54	313	0	-	-	0.0	-	204	194	-	22100	93%	4%	3%
OLA088	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	-76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	77	293	0	-	-	0.0	-	204	194	-	22100	93%	4%	3%
OLA089	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-88	-56	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	68	0	-	-	0.0	-	204	205	-	22100	93%	4%	3%
OLA090	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-85	-23	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	74	81	0	-	-	0.0	-	204	205	-	22100	93%	4%	3%
OLA091	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-83	84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	42	0	-45	45	3.0	3	203	203	203	22100	93%	4%	3%
OLA092	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-80	87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	31	0	-80	-30	3.0	3	202	203	203	22100	93%	4%	3%
OLA093	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-69	86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	34	0	-33	86	1.7	17	201	202	201	22100	93%	4%	3%
OLA094	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	56	74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	88	0	-	-	0.0	-	201	202	-	22100	93%	4%	3%
OLA095	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	58	67	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	66	156	0	-	-	0.0	-	201	202	-	22100	93%	4%	3%
OLA096	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	98	205	0	-	-	0.0	-	201	202	-	22100	93%	4%	3%
OLA097	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	62	72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	208	0	62	72	1.8	5	201	202	201	22100	93%	4%	3%
OLA098	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	61	68	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	252	0	61	68	1.8	4	201	202	202	22100	93%	4%	3%
OLA099	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	65	77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	391	0	-	-	0.0	-	201	201	-	22100	93%	4%	3%
OLA100	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	885	0	-	-	0.0	-	201	202	-	22100	93%	4%	3%
OLA101	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	958	0	-	-	0.0	-	201	201	-	22100	93%	4%	3%
OLA102	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	76	1177	0	-	-	0.0	-	201	198	-	22100	93%	4%	3%
OLA103	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-63	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	70	1335	0	-	-	0.0	-	201	197	-	22100	93%	4%	3%
OLA104	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-66	-58	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	99	1519	0	-	-	0.0	-	201	196	-	22100	93%	4%	3%

Start of Construction - 2030 S05_NBb Kennedy Road 14th Avenue Denison Street

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	165	6687	0	-90	-89	2.0	7	201	209	209	22100	93%	4%	3%
OLA002	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	6621	0	-	-	0.0	-	201	207	-	22100	93%	4%	3%
OLA003	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	6603	0	89	89	2.0	4	201	207	206	22100	93%	4%	3%
OLA004	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	88	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	64	6509	0	-	-	0.0	-	201	207	-	22100	93%	4%	3%
OLA005	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	37	6467	0	89	90	2.2	5	201	208	207	22100	93%	4%	3%
OLA006	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	6431	0	-	-	0.0	-	201	207	-	22100	93%	4%	3%
OLA007	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	88	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	6435	0	88	89	2.1	5	201	208	207	22100	93%	4%	3%
OLA008	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	6360	0	-	-	0.0	-	201	207	-	22100	93%	4%	3%
OLA009	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	31	6359	0	89	90	2.1	5	201	207	207	22100	93%	4%	3%
OLA010	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	6259	0	-	-	0.0	-	201	206	-	22100	93%	4%	3%
OLA011	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	88	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	71	6266	0	-	-	0.0	-	201	206	-	22100	93%	4%	3%
OLA012	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	6170	0	-	-	0.0	-	201	204	-	22100	93%	4%	3%
OLA013	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	6111	0	-	-	0.0	-	201	204	-	22100	93%	4%	3%
OLA014	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	28	6099	0	89	90	2.0	4	201	203	203	22100	93%	4%	3%
OLA015	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	6020	0	-	-	0.0	-	201	202	-	22100	93%	4%	3%
OLA016	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	74	5976	0	-	-	0.0	-	201	200	-	22100	93%	4%	3%
OLA017	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	29	5732	0	-89	-89	1.9	7	201	196	196	22100	93%	4%	3%
OLA018	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	5697	0	-89	-89	1.9	2	201	196	196	22100	93%	4%	3%
OLA019	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	54	5657	0	-	-	0.0	-	201	197	-	22100	93%	4%	3%
OLA020	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	33	5563	0	-89	-88	2.0	8	201	197	197	22100	93%	4%	3%
OLA021	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	-88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	5517	0	-	-	0.0	-	201	200	-	22100	93%	4%	3%
OLA022	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	5371	0	-86	-86	9.0	3	201	200	200	22100	93%	4%	3%
OLA023	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	83	5341	0	-	-	0.0	-	201	199	-	22100	93%	4%	3%
OLA024	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	5158	0	-	-	0.0	-	201	193	-	22100	93%	4%	3%
OLA025	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	-87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	5092	0	-87	-87	1.8	5	201	191	192	22100	93%	4%	3%
OLA026	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	4698	0	89	89	6.0	3	201	183	183	22100	93%	4%	3%
OLA027	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	4655	0	-	-	0.0	-	201	185	-	22100	93%	4%	3%
OLA028	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	4621	0	-	-	0.0	-	201	182	-	22100	93%	4%	3%
OLA029	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-82	-81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	4596	0	-	-	0.0	-	201	185	-	22100	93%	4%	3%
OLA030	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-77	-76	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	4554	0	-	-	0.0	-	201	184	-	22100	93%	4%	3%
OLA031	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	52	4544	0	-	-	0.0	-	201	182	-	22100	93%	4%	3%
OLA032	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	72	4468	0	-	-	0.0	-	201	181	-	22100	93%	4%	3%
OLA033	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-57	-57	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	4472	0	-	-	0.0	-	201	182	-	22100	93%	4%	3%
OLA034	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	4458	0	-	-	0.0	-	201	182	-	22100	93%	4%	3%
OLA035	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	46	4386	0	-	-	0.0	-	201	182	-	22100	93%	4%	3%
OLA036	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-46	-45	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	4421	0	-	-	0.0	-	201	182	-	22100	93%	4%	3%
OLA037	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	4349	0	-	-	0.0	-	201	182	-	22100	93%	4%	3%
OLA038	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-35	-35	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	4377	0	-	-	0.0	-	201	182	-	22100	93%	4%	3%
OLA039	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	4314	0	-	-	0.0	-	201	181	-	22100	93%	4%	3%
OLA040	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-26	-26	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	4348	0	-	-	0.0	-	201	183	-	22100	93%	4%	3%
OLA041	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	4281	0	-	-	0.0	-	201	181	-	22100	93%	4%	3%
OLA042	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	4274	0	-	-	0.0	-	201	182	-	22100	93%	4%	3%
OLA043	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-19	-19	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	4329	0	-19	-19	1.8	12	201	183	182	22100	93%	4%	3%
OLA044	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	39	4255	0	-	-	0.0	-	201	182	-	22100	93%	4%	3%
OLA045	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	4237	0	-	-	0.0	-	201	183	-	22100	93%	4%	3%
OLA046	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-26	-26	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	4296	0	-	-	0.0	-	201	185	-	22100	93%	4%	3%
OLA047	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	4195	0	-	-	0.0	-	201	183	-	22100	93%	4%	3%
OLA048	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-46	-46	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	4209	0	-46	-46	2.0	10	201	184	184	22100	93%	4%	3%
OLA049	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-52	-52	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	4189	0	-52	-52	2.0	25	201	184	185	22100	93%	4%	3%
OLA050	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	4149	0	-	-	0.0	-	201	185	-	22100	93%	4%	3%
OLA051	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-59	-58	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	4134	0	-59	-58	2.0	11	201	184	185	22100	93%	4%	3%
OLA052	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	4099	0	-	-	0.0	-	201	185	-	22100	93%	4%	3%
OLA053	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-66	-65	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	4090	0	-66	-65	2.0	19	201	184	185	22100	93%	4%	3%
OLA054	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-76	-76	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	4038	0	-76	-76	2.0	12	201	184	186	22100	93%	4%	3%
OLA055	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	4035	0	-	-	0.0	-	201	185	-	22100	93%	4%	3%
OLA056	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-78	-78	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	3986	0	-78	-78	2.0	13	201	185	186	22100	93%	4%	3%
OLA057	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	3981	0	-	-	0.0	-	201	185	-	22100	93%	4%	3%
OLA058	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-78	-77	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	25	3932	0	-78	-77	2.0	10	201	185	186	22100	93%	4%	3%

OLA059	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	3918	0	-	-	0.0	-	201	185	-	22100	93%	4%	3%
OLA060	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	3879	0	-77	-77	1.8	15	201	186	186	22100	93%	4%	3%
OLA061	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	3842	0	-	-	0.0	-	201	184	-	22100	93%	4%	3%
OLA062	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	21	3822	0	-77	-77	1.8	7	201	186	185	22100	93%	4%	3%
OLA063	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	24	3783	0	-	-	0.0	-	201	185	-	22100	93%	4%	3%
OLA064	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-76	-76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	3779	0	-76	-76	1.8	6	201	186	185	22100	93%	4%	3%
OLA065	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	30	3705	0	-	-	0.0	-	201	183	-	22100	93%	4%	3%
OLA066	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	3650	0	-	-	0.0	-	201	183	-	22100	93%	4%	3%
OLA067	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	3606	0	-75	-75	1.8	14	201	181	182	22100	93%	4%	3%
OLA068	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	3567	0	-	-	0.0	-	201	180	-	22100	93%	4%	3%
OLA069	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	3534	0	-75	-74	1.8	31	201	181	180	22100	93%	4%	3%
OLA070	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	3485	0	-75	-75	1.8	17	201	179	178	22100	93%	4%	3%
OLA071	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	3477	0	-	-	0.0	-	201	178	-	22100	93%	4%	3%
OLA072	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	39	3410	0	-	-	0.0	-	201	177	-	22100	93%	4%	3%
OLA073	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	3401	0	-75	-75	1.9	10	201	177	177	22100	93%	4%	3%
OLA074	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	3328	0	-	-	0.0	-	201	176	-	22100	93%	4%	3%
OLA075	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-74	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	3315	0	-	-	0.0	-	201	175	-	22100	93%	4%	3%
OLA076	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-80	-80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	72	3249	0	-	-	0.0	-	201	175	-	22100	93%	4%	3%
OLA077	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	84	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	32	3023	0	84	85	6.0	3	201	174	174	22100	93%	4%	3%
OLA078	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	64	3008	0	-87	-87	6.0	3	201	172	172	22100	93%	4%	3%
OLA079	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	2942	0	-	-	0.0	-	201	175	-	22100	93%	4%	3%
OLA080	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	23	2939	0	-77	-77	1.7	30	201	174	174	22100	93%	4%	3%
OLA081	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	65	2892	0	-	-	0.0	-	201	175	-	22100	93%	4%	3%
OLA082	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	2600	0	-73	-73	1.8	15	201	181	181	22100	93%	4%	3%
OLA083	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	2552	0	-77	-77	2.0	13	201	182	182	22100	93%	4%	3%
OLA084	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-82	-82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	2499	0	-82	-82	1.6	18	201	183	182	22100	93%	4%	3%
OLA085	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	2387	0	-	-	0.0	-	201	182	-	22100	93%	4%	3%
OLA086	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	-85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	69	1029	0	-	-	0.0	-	201	193	-	22100	93%	4%	3%
OLA087	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	54	989	0	-	-	0.0	-	201	194	-	22100	93%	4%	3%
OLA088	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	-84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	77	966	0	-	-	0.0	-	201	194	-	22100	93%	4%	3%
OLA089	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-88	-86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	737	0	-	-	0.0	-	201	205	-	22100	93%	4%	3%
OLA090	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-85	-83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	74	714	0	-	-	0.0	-	201	205	-	22100	93%	4%	3%
OLA091	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-83	-80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	336	0	-	-	0.0	-	201	203	-	22100	93%	4%	3%
OLA092	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-80	-78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	190	0	-80	-78	3.0	3	201	203	203	22100	93%	4%	3%
OLA093	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	96	0	-	-	0.0	-	201	202	-	22100	93%	4%	3%
OLA094	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-54	56	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	46	0	-54	46	2.0	12	200	202	201	22100	93%	4%	3%
OLA095	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-11	58	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	66	66	0	-11	15	6.0	3	200	202	202	22100	93%	4%	3%
OLA096	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-74	-31	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	98	112	0	-	-	0.0	-	200	202	-	22100	93%	4%	3%
OLA097	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	65	72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	64	0	65	72	1.8	5	200	202	201	22100	93%	4%	3%
OLA098	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	61	68	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	108	0	61	68	1.8	4	200	202	202	22100	93%	4%	3%
OLA099	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	77	80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	247	0	-	-	0.0	-	200	201	-	22100	93%	4%	3%
OLA100	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	747	0	-90	-87	2.2	7	200	202	202	22100	93%	4%	3%
OLA101	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	820	0	-90	-87	2.1	6	200	201	201	22100	93%	4%	3%
OLA102	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	76	1039	0	-	-	0.0	-	200	198	-	22100	93%	4%	3%
OLA103	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-63	-62	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	70	1196	0	-	-	0.0	-	200	197	-	22100	93%	4%	3%
OLA104	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-58	-56	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	99	1377	0	-	-	0.0	-	200	196	-	22100	93%	4%	3%

Start of Construction - 2030 S05_NBc Kennedy Road 14th Avenue Denison Street

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	165	6828	0	-89	-89	2.0	7	200	209	209	22100	93%	4%	3%
OLA002	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	6762	0	-	-	0.0	-	200	207	-	22100	93%	4%	3%
OLA003	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	6743	0	89	90	2.0	4	200	207	206	22100	93%	4%	3%
OLA004	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	64	6649	0	-	-	0.0	-	200	207	-	22100	93%	4%	3%
OLA005	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	37	6607	0	90	90	2.2	5	200	208	207	22100	93%	4%	3%
OLA006	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	6572	0	-90	-90	2.1	6	200	207	207	22100	93%	4%	3%
OLA007	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	6575	0	89	90	2.1	5	200	208	207	22100	93%	4%	3%
OLA008	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	6500	0	-90	-90	2.0	12	200	207	207	22100	93%	4%	3%
OLA009	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	31	6500	0	90	90	2.1	5	200	207	207	22100	93%	4%	3%
OLA010	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	6399	0	-90	-90	1.9	8	200	206	206	22100	93%	4%	3%
OLA011	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	71	6406	0	-	-	0.0	-	200	206	-	22100	93%	4%	3%
OLA012	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	6311	0	-90	-89	2.4	7	200	204	204	22100	93%	4%	3%
OLA013	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	6252	0	-	-	0.0	-	200	204	-	22100	93%	4%	3%
OLA014	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	28	6239	0	90	90	2.0	4	200	203	203	22100	93%	4%	3%
OLA015	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	6160	0	-	-	0.0	-	200	202	-	22100	93%	4%	3%
OLA016	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	74	6116	0	-	-	0.0	-	200	200	-	22100	93%	4%	3%
OLA017	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	29	5873	0	-89	-88	1.9	7	200	196	196	22100	93%	4%	3%
OLA018	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	5838	0	-89	-88	1.9	2	200	196	196	22100	93%	4%	3%
OLA019	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	54	5798	0	-	-	0.0	-	200	197	-	22100	93%	4%	3%
OLA020	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	-87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	33	5703	0	-88	-87	2.0	8	200	197	197	22100	93%	4%	3%
OLA021	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	-87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	5658	0	-	-	0.0	-	200	200	-	22100	93%	4%	3%
OLA022	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	-85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	5511	0	-86	-85	9.0	3	200	200	200	22100	93%	4%	3%
OLA023	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	83	5481	0	-	-	0.0	-	200	199	-	22100	93%	4%	3%
OLA024	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	5298	0	-	-	0.0	-	200	193	-	22100	93%	4%	3%
OLA025	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	5233	0	-87	-86	1.8	5	200	191	192	22100	93%	4%	3%
OLA026	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	4838	0	89	90	6.0	3	200	183	183	22100	93%	4%	3%
OLA027	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	4796	0	-90	-90	2.5	26	200	185	184	22100	93%	4%	3%
OLA028	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	4761	0	-	-	0.0	-	200	182	-	22100	93%	4%	3%
OLA029	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-81	-80	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	4737	0	-	-	0.0	-	200	185	-	22100	93%	4%	3%
OLA030	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-76	-75	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	4695	0	-	-	0.0	-	200	184	-	22100	93%	4%	3%
OLA031	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	52	4684	0	-	-	0.0	-	200	182	-	22100	93%	4%	3%
OLA032	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	72	4608	0	-	-	0.0	-	200	181	-	22100	93%	4%	3%
OLA033	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-57	-56	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	4613	0	-	-	0.0	-	200	182	-	22100	93%	4%	3%
OLA034	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	4598	0	-	-	0.0	-	200	182	-	22100	93%	4%	3%
OLA035	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	46	4527	0	-	-	0.0	-	200	182	-	22100	93%	4%	3%
OLA036	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-45	-44	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	4562	0	-	-	0.0	-	200	182	-	22100	93%	4%	3%
OLA037	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	4490	0	-	-	0.0	-	200	182	-	22100	93%	4%	3%
OLA038	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-35	-33	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	4519	0	-	-	0.0	-	200	182	-	22100	93%	4%	3%
OLA039	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	4455	0	-	-	0.0	-	200	181	-	22100	93%	4%	3%
OLA040	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-26	-24	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	4490	0	-	-	0.0	-	200	183	-	22100	93%	4%	3%
OLA041	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	4423	0	-	-	0.0	-	200	181	-	22100	93%	4%	3%
OLA042	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	4416	0	-	-	0.0	-	200	182	-	22100	93%	4%	3%
OLA043	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-19	-18	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	4472	0	-19	-18	1.8	12	200	183	182	22100	93%	4%	3%
OLA044	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	39	4397	0	-	-	0.0	-	200	182	-	22100	93%	4%	3%
OLA045	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	4379	0	-	-	0.0	-	200	183	-	22100	93%	4%	3%
OLA046	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-26	-25	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	4439	0	-	-	0.0	-	200	185	-	22100	93%	4%	3%
OLA047	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	4338	0	-	-	0.0	-	200	183	-	22100	93%	4%	3%
OLA048	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-46	-45	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	4353	0	-46	-45	2.0	10	200	184	184	22100	93%	4%	3%
OLA049	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-52	-50	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	4332	0	-52	-50	2.0	25	200	184	185	22100	93%	4%	3%
OLA050	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	4293	0	-	-	0.0	-	200	185	-	22100	93%	4%	3%
OLA051	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-58	-57	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	4278	0	-58	-57	2.0	11	200	184	185	22100	93%	4%	3%
OLA052	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	4242	0	-	-	0.0	-	200	185	-	22100	93%	4%	3%
OLA053	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-65	-64	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	4234	0	-65	-64	2.0	19	200	184	185	22100	93%	4%	3%
OLA054	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-76	-75	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	4182	0	-76	-75	2.0	12	200	184	186	22100	93%	4%	3%
OLA055	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	4179	0	-	-	0.0	-	200	185	-	22100	93%	4%	3%
OLA056	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-78	-77	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	4130	0	-78	-77	2.0	13	200	185	186	22100	93%	4%	3%
OLA057	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	4125	0	-	-	0.0	-	200	185	-	22100	93%	4%	3%
OLA058	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-77	-76	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	25	4076	0	-77	-76	2.0	10	200	185	186	22100	93%	4%	3%

OLA059	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	4062	0	-	-	0.0	-	200	185	-	22100	93%	4%	3%
OLA060	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	4024	0	-77	-76	1.8	15	200	186	186	22100	93%	4%	3%
OLA061	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	3986	0	-	-	0.0	-	200	184	-	22100	93%	4%	3%
OLA062	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	21	3967	0	-77	-76	1.8	7	200	186	185	22100	93%	4%	3%
OLA063	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	24	3927	0	-	-	0.0	-	200	185	-	22100	93%	4%	3%
OLA064	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-76	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	3923	0	-76	-75	1.8	6	200	186	185	22100	93%	4%	3%
OLA065	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	30	3850	0	-	-	0.0	-	200	183	-	22100	93%	4%	3%
OLA066	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	3794	0	-	-	0.0	-	200	183	-	22100	93%	4%	3%
OLA067	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	3751	0	-75	-74	1.8	14	200	181	182	22100	93%	4%	3%
OLA068	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	3712	0	-	-	0.0	-	200	180	-	22100	93%	4%	3%
OLA069	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-74	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	3679	0	-74	-73	1.8	31	200	181	180	22100	93%	4%	3%
OLA070	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	3630	0	-75	-73	1.8	17	200	179	178	22100	93%	4%	3%
OLA071	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	3621	0	-	-	0.0	-	200	178	-	22100	93%	4%	3%
OLA072	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	39	3554	0	-	-	0.0	-	200	177	-	22100	93%	4%	3%
OLA073	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	3546	0	-75	-73	1.9	10	200	177	177	22100	93%	4%	3%
OLA074	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	3473	0	-	-	0.0	-	200	176	-	22100	93%	4%	3%
OLA075	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	3460	0	-	-	0.0	-	200	175	-	22100	93%	4%	3%
OLA076	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-80	-79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	72	3394	0	-	-	0.0	-	200	175	-	22100	93%	4%	3%
OLA077	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	85	86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	32	3168	0	85	86	6.0	3	200	174	174	22100	93%	4%	3%
OLA078	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	64	3153	0	-87	-86	6.0	3	200	172	172	22100	93%	4%	3%
OLA079	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	3086	0	-	-	0.0	-	200	175	-	22100	93%	4%	3%
OLA080	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	23	3084	0	-77	-76	1.7	30	200	174	174	22100	93%	4%	3%
OLA081	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	65	3037	0	-	-	0.0	-	200	175	-	22100	93%	4%	3%
OLA082	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	2745	0	-73	-72	1.8	15	200	181	181	22100	93%	4%	3%
OLA083	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	2697	0	-77	-75	2.0	13	200	182	182	22100	93%	4%	3%
OLA084	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-82	-81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	2644	0	-82	-81	1.6	18	200	183	182	22100	93%	4%	3%
OLA085	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	2532	0	-	-	0.0	-	200	182	-	22100	93%	4%	3%
OLA086	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-85	-81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	69	1171	0	-	-	0.0	-	200	193	-	22100	93%	4%	3%
OLA087	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	-82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	54	1132	0	-	-	0.0	-	200	194	-	22100	93%	4%	3%
OLA088	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-84	-80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	77	1109	0	-	-	0.0	-	200	194	-	22100	93%	4%	3%
OLA089	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	-81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	879	0	-	-	0.0	-	200	205	-	22100	93%	4%	3%
OLA090	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-83	-79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	74	858	0	-	-	0.0	-	200	205	-	22100	93%	4%	3%
OLA091	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-80	-74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	481	0	-	-	0.0	-	200	203	-	22100	93%	4%	3%
OLA092	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-78	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	335	0	-78	-71	3.0	3	200	203	203	22100	93%	4%	3%
OLA093	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-67	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	241	0	-	-	0.0	-	200	202	-	22100	93%	4%	3%
OLA094	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-67	-54	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	90	0	-67	-54	2.0	12	200	202	201	22100	93%	4%	3%
OLA095	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-65	-11	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	66	68	0	-65	-11	6.0	3	200	202	202	22100	93%	4%	3%
OLA096	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-31	57	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	98	98	0	-	-	0.0	-	200	202	-	22100	93%	4%	3%
OLA097	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-79	65	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	26	0	-79	65	1.8	5	200	202	201	22100	93%	4%	3%
OLA098	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-66	61	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	49	0	-66	61	1.8	4	200	202	202	22100	93%	4%	3%
OLA099	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	42	80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	53	0	-	-	0.0	-	201	201	-	22100	93%	4%	3%
OLA100	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	540	0	-87	-86	2.2	7	201	202	202	22100	93%	4%	3%
OLA101	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	613	0	-87	-86	2.1	6	201	201	201	22100	93%	4%	3%
OLA102	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	76	832	0	-	-	0.0	-	201	198	-	22100	93%	4%	3%
OLA103	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-62	-61	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	70	988	0	-	-	0.0	-	201	197	-	22100	93%	4%	3%
OLA104	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-57	-56	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	99	1170	0	-	-	0.0	-	201	196	-	22100	93%	4%	3%

Start of Construction - 2030 S06_NBa Kennedy Road Denison Street Steeles Avenue

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	165	7009	0	-89	-86	2.0	7	201	209	209	23576	98%	2%	0%
OLA002	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	6941	0	-	-	0.0	-	201	207	-	23576	98%	2%	0%
OLA003	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	6921	0	90	90	2.0	4	201	207	206	23576	98%	2%	0%
OLA004	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	64	6827	0	-	-	0.0	-	201	207	-	23576	98%	2%	0%
OLA005	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	37	6785	0	-	-	0.0	-	201	208	-	23576	98%	2%	0%
OLA006	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	6751	0	-90	-87	2.1	6	201	207	207	23576	98%	2%	0%
OLA007	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	6754	0	90	90	2.1	5	201	208	207	23576	98%	2%	0%
OLA008	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	6680	0	-90	-87	2.0	12	201	207	207	23576	98%	2%	0%
OLA009	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	31	6678	0	-	-	0.0	-	201	207	-	23576	98%	2%	0%
OLA010	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	6579	0	-90	-87	1.9	8	201	206	206	23576	98%	2%	0%
OLA011	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	71	6584	0	-	-	0.0	-	201	206	-	23576	98%	2%	0%
OLA012	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	6490	0	-89	-86	2.4	7	201	204	204	23576	98%	2%	0%
OLA013	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	6432	0	-	-	0.0	-	201	204	-	23576	98%	2%	0%
OLA014	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	28	6418	0	-	-	0.0	-	201	203	-	23576	98%	2%	0%
OLA015	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	6338	0	-	-	0.0	-	201	202	-	23576	98%	2%	0%
OLA016	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	74	6293	0	-	-	0.0	-	201	200	-	23576	98%	2%	0%
OLA017	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	-85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	29	6052	0	-88	-85	1.9	7	201	196	196	23576	98%	2%	0%
OLA018	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	-84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	6017	0	-88	-84	1.9	2	201	196	196	23576	98%	2%	0%
OLA019	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	-84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	54	5978	0	-	-	0.0	-	201	197	-	23576	98%	2%	0%
OLA020	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	-84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	33	5883	0	-87	-84	2.0	8	201	197	197	23576	98%	2%	0%
OLA021	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	-84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	5838	0	-	-	0.0	-	201	200	-	23576	98%	2%	0%
OLA022	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-85	-81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	5691	0	-85	-81	9.0	3	201	200	200	23576	98%	2%	0%
OLA023	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	83	5658	0	-	-	0.0	-	201	199	-	23576	98%	2%	0%
OLA024	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	5476	0	-	-	0.0	-	201	193	-	23576	98%	2%	0%
OLA025	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	-82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	5412	0	-86	-82	1.8	5	201	191	192	23576	98%	2%	0%
OLA026	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	5016	0	-	-	0.0	-	201	183	-	23576	98%	2%	0%
OLA027	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	4976	0	-90	-86	2.5	26	201	185	184	23576	98%	2%	0%
OLA028	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	4939	0	-	-	0.0	-	201	182	-	23576	98%	2%	0%
OLA029	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-80	-76	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	4917	0	-	-	0.0	-	201	185	-	23576	98%	2%	0%
OLA030	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-75	-71	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	4875	0	-	-	0.0	-	201	184	-	23576	98%	2%	0%
OLA031	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	52	4862	0	-	-	0.0	-	201	182	-	23576	98%	2%	0%
OLA032	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	72	4786	0	-	-	0.0	-	201	181	-	23576	98%	2%	0%
OLA033	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-56	-52	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	4794	0	-	-	0.0	-	201	182	-	23576	98%	2%	0%
OLA034	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	4777	0	-	-	0.0	-	201	182	-	23576	98%	2%	0%
OLA035	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	46	4707	0	-	-	0.0	-	201	182	-	23576	98%	2%	0%
OLA036	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-44	-40	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	4743	0	-	-	0.0	-	201	182	-	23576	98%	2%	0%
OLA037	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	4671	0	-	-	0.0	-	201	182	-	23576	98%	2%	0%
OLA038	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-33	-30	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	4701	0	-	-	0.0	-	201	182	-	23576	98%	2%	0%
OLA039	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	4637	0	-	-	0.0	-	201	181	-	23576	98%	2%	0%
OLA040	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-24	-21	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	4673	0	-	-	0.0	-	201	183	-	23576	98%	2%	0%
OLA041	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	4606	0	-	-	0.0	-	201	181	-	23576	98%	2%	0%
OLA042	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	4600	0	-	-	0.0	-	201	182	-	23576	98%	2%	0%
OLA043	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-18	-14	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	4656	0	-18	-14	1.8	12	201	183	182	23576	98%	2%	0%
OLA044	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	39	4582	0	-	-	0.0	-	201	182	-	23576	98%	2%	0%
OLA045	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	4565	0	-	-	0.0	-	201	183	-	23576	98%	2%	0%
OLA046	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-25	-21	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	4625	0	-	-	0.0	-	201	185	-	23576	98%	2%	0%
OLA047	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	4525	0	-	-	0.0	-	201	183	-	23576	98%	2%	0%
OLA048	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-45	-41	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	4542	0	-45	-41	2.0	10	201	184	184	23576	98%	2%	0%
OLA049	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-50	-47	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	4522	0	-50	-47	2.0	25	201	184	185	23576	98%	2%	0%
OLA050	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	4481	0	-	-	0.0	-	201	185	-	23576	98%	2%	0%
OLA051	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-57	-54	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	4468	0	-57	-54	2.0	11	201	184	185	23576	98%	2%	0%
OLA052	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	4431	0	-	-	0.0	-	201	185	-	23576	98%	2%	0%
OLA053	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-64	-61	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	4425	0	-64	-61	2.0	19	201	184	185	23576	98%	2%	0%
OLA054	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-75	-72	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	4373	0	-75	-72	2.0	12	201	184	186	23576	98%	2%	0%
OLA055	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	4368	0	-	-	0.0	-	201	185	-	23576	98%	2%	0%
OLA056	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-77	-73	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	4321	0	-77	-73	2.0	13	201	185	186	23576	98%	2%	0%
OLA057	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	4315	0	-	-	0.0	-	201	185	-	23576	98%	2%	0%
OLA058	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-76	-73	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	25	4267	0	-76	-73	2.0	10	201	185	186	23576	98%	2%	0%

OLA059	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	4251	0	-	-	0.0	-	201	185	-	23576	98%	2%	0%
OLA060	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-76	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	4215	0	-76	-73	1.8	15	201	186	186	23576	98%	2%	0%
OLA061	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	4176	0	-	-	0.0	-	201	184	-	23576	98%	2%	0%
OLA062	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-76	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	21	4158	0	-76	-73	1.8	7	201	186	185	23576	98%	2%	0%
OLA063	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	24	4118	0	-	-	0.0	-	201	185	-	23576	98%	2%	0%
OLA064	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	4115	0	-75	-72	1.8	6	201	186	185	23576	98%	2%	0%
OLA065	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	30	4041	0	-	-	0.0	-	201	183	-	23576	98%	2%	0%
OLA066	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	3985	0	-	-	0.0	-	201	183	-	23576	98%	2%	0%
OLA067	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-74	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	3944	0	-74	-70	1.8	14	201	181	182	23576	98%	2%	0%
OLA068	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	3903	0	-	-	0.0	-	201	180	-	23576	98%	2%	0%
OLA069	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	3872	0	-73	-70	1.8	31	201	181	180	23576	98%	2%	0%
OLA070	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	3823	0	-73	-70	1.8	17	201	179	178	23576	98%	2%	0%
OLA071	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	3813	0	-	-	0.0	-	201	178	-	23576	98%	2%	0%
OLA072	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	39	3747	0	-	-	0.0	-	201	177	-	23576	98%	2%	0%
OLA073	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	3740	0	-73	-70	1.9	10	201	177	177	23576	98%	2%	0%
OLA074	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	3665	0	-	-	0.0	-	201	176	-	23576	98%	2%	0%
OLA075	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-72	-69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	3654	0	-	-	0.0	-	201	175	-	23576	98%	2%	0%
OLA076	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-79	-76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	72	3590	0	-	-	0.0	-	201	175	-	23576	98%	2%	0%
OLA077	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	86	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	32	3360	0	86	90	6.0	3	201	174	174	23576	98%	2%	0%
OLA078	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	-82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	64	3348	0	-86	-82	6.0	3	201	172	172	23576	98%	2%	0%
OLA079	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	3278	0	-	-	0.0	-	201	175	-	23576	98%	2%	0%
OLA080	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	23	3277	0	-	-	0.0	-	201	174	-	23576	98%	2%	0%
OLA081	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	65	3229	0	-	-	0.0	-	201	175	-	23576	98%	2%	0%
OLA082	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-72	-68	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	2942	0	-72	-68	1.8	15	201	181	181	23576	98%	2%	0%
OLA083	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	2894	0	-75	-72	2.0	13	201	182	182	23576	98%	2%	0%
OLA084	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	2841	0	-81	-77	1.6	18	201	183	182	23576	98%	2%	0%
OLA085	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	2729	0	-	-	0.0	-	201	182	-	23576	98%	2%	0%
OLA086	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	69	1360	0	-	-	0.0	-	201	193	-	23576	98%	2%	0%
OLA087	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-82	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	54	1320	0	-	-	0.0	-	201	194	-	23576	98%	2%	0%
OLA088	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-80	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	77	1299	0	-	-	0.0	-	201	194	-	23576	98%	2%	0%
OLA089	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	1069	0	-	-	0.0	-	201	205	-	23576	98%	2%	0%
OLA090	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-79	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	74	1051	0	-	-	0.0	-	201	205	-	23576	98%	2%	0%
OLA091	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-74	-66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	677	0	-	-	0.0	-	201	203	-	23576	98%	2%	0%
OLA092	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-71	-64	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	535	0	-71	-64	3.0	3	201	203	203	23576	98%	2%	0%
OLA093	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-67	-62	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	445	0	-	-	0.0	-	201	202	-	23576	98%	2%	0%
OLA094	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-71	-67	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	294	0	-	-	0.0	-	201	202	-	23576	98%	2%	0%
OLA095	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-65	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	66	239	0	-77	-65	6.0	3	201	202	202	23576	98%	2%	0%
OLA096	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	57	84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	98	178	0	-	-	0.0	-	201	202	-	23576	98%	2%	0%
OLA097	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-88	-79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	152	0	-88	-79	1.8	5	201	202	201	23576	98%	2%	0%
OLA098	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	123	0	-87	-66	1.8	4	201	202	202	23576	98%	2%	0%
OLA099	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-88	42	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	40	0	-88	-60	24.0	3	201	201	201	23576	98%	2%	0%
OLA100	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	41	0	-86	79	2.2	7	202	202	202	23576	98%	2%	0%
OLA101	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	38	0	-86	76	2.1	6	201	201	201	23576	98%	2%	0%
OLA102	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-72	-22	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	76	86	0	-	-	0.0	-	197	198	-	23576	98%	2%	0%
OLA103	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-61	-59	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	70	209	0	-	-	0.0	-	197	197	-	23576	98%	2%	0%
OLA104	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-64	-57	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	99	395	0	-	-	0.0	-	197	196	-	23576	98%	2%	0%

Start of Construction - 2030 S06_NBb Kennedy Road Denison Street Steeles Avenue

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	165	7703	0	-86	-86	2.0	7	197	209	209	23576	98%	2%	0%
OLA002	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	7630	0	-	-	0.0	-	197	207	-	23576	98%	2%	0%
OLA003	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	7605	0	-	-	0.0	-	197	207	-	23576	98%	2%	0%
OLA004	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	64	7510	0	-	-	0.0	-	197	207	-	23576	98%	2%	0%
OLA005	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	37	7469	0	-	-	0.0	-	197	208	-	23576	98%	2%	0%
OLA006	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	7438	0	-87	-86	2.1	6	197	207	207	23576	98%	2%	0%
OLA007	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	7437	0	-	-	0.0	-	197	208	-	23576	98%	2%	0%
OLA008	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	-87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	7367	0	-87	-87	2.0	12	197	207	207	23576	98%	2%	0%
OLA009	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	31	7362	0	-	-	0.0	-	197	207	-	23576	98%	2%	0%
OLA010	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	7267	0	-87	-86	1.9	8	197	206	206	23576	98%	2%	0%
OLA011	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	71	7266	0	-	-	0.0	-	197	206	-	23576	98%	2%	0%
OLA012	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	7179	0	-86	-86	2.4	7	197	204	204	23576	98%	2%	0%
OLA013	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	7121	0	-	-	0.0	-	197	204	-	23576	98%	2%	0%
OLA014	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	28	7102	0	-	-	0.0	-	197	203	-	23576	98%	2%	0%
OLA015	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	7023	0	-	-	0.0	-	197	202	-	23576	98%	2%	0%
OLA016	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	74	6976	0	-	-	0.0	-	197	200	-	23576	98%	2%	0%
OLA017	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-85	-84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	29	6742	0	-85	-84	1.9	7	197	196	196	23576	98%	2%	0%
OLA018	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-84	-84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	6707	0	-84	-84	1.9	2	197	196	196	23576	98%	2%	0%
OLA019	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-84	-84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	54	6669	0	-	-	0.0	-	197	197	-	23576	98%	2%	0%
OLA020	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-84	-84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	33	6573	0	-84	-84	2.0	8	197	197	197	23576	98%	2%	0%
OLA021	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-84	-83	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	6530	0	-	-	0.0	-	197	200	-	23576	98%	2%	0%
OLA022	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-81	-81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	6383	0	-81	-81	9.0	3	197	200	200	23576	98%	2%	0%
OLA023	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	83	6343	0	-	-	0.0	-	197	199	-	23576	98%	2%	0%
OLA024	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	6163	0	-	-	0.0	-	197	193	-	23576	98%	2%	0%
OLA025	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-82	-82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	6104	0	-82	-82	1.8	5	197	191	192	23576	98%	2%	0%
OLA026	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	5703	0	-	-	0.0	-	197	183	-	23576	98%	2%	0%
OLA027	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	-85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	5670	0	-86	-85	2.5	26	197	185	184	23576	98%	2%	0%
OLA028	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	5628	0	-	-	0.0	-	197	182	-	23576	98%	2%	0%
OLA029	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-76	-76	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	5612	0	-	-	0.0	-	197	185	-	23576	98%	2%	0%
OLA030	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-71	-71	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	5571	0	-	-	0.0	-	197	184	-	23576	98%	2%	0%
OLA031	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	52	5551	0	-	-	0.0	-	197	182	-	23576	98%	2%	0%
OLA032	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	72	5475	0	-	-	0.0	-	197	181	-	23576	98%	2%	0%
OLA033	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-52	-52	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	5490	0	-	-	0.0	-	197	182	-	23576	98%	2%	0%
OLA034	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	5470	0	-	-	0.0	-	197	182	-	23576	98%	2%	0%
OLA035	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	46	5402	0	-	-	0.0	-	197	182	-	23576	98%	2%	0%
OLA036	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-40	-40	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	5443	0	-	-	0.0	-	197	182	-	23576	98%	2%	0%
OLA037	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	5370	0	-	-	0.0	-	197	182	-	23576	98%	2%	0%
OLA038	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-30	-29	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	5404	0	-	-	0.0	-	197	182	-	23576	98%	2%	0%
OLA039	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	5339	0	-	-	0.0	-	197	181	-	23576	98%	2%	0%
OLA040	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-21	-20	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	5380	0	-	-	0.0	-	197	183	-	23576	98%	2%	0%
OLA041	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	5311	0	-	-	0.0	-	197	181	-	23576	98%	2%	0%
OLA042	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	5307	0	-	-	0.0	-	197	182	-	23576	98%	2%	0%
OLA043	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-14	-14	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	5366	0	-14	-14	1.8	12	197	183	182	23576	98%	2%	0%
OLA044	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	39	5293	0	-	-	0.0	-	197	182	-	23576	98%	2%	0%
OLA045	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	5279	0	-	-	0.0	-	197	183	-	23576	98%	2%	0%
OLA046	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-21	-21	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	5341	0	-	-	0.0	-	197	185	-	23576	98%	2%	0%
OLA047	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	5242	0	-	-	0.0	-	197	183	-	23576	98%	2%	0%
OLA048	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-41	-41	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	5265	0	-41	-41	2.0	10	197	184	184	23576	98%	2%	0%
OLA049	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-47	-47	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	5247	0	-47	-47	2.0	25	197	184	185	23576	98%	2%	0%
OLA050	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	5202	0	-	-	0.0	-	197	185	-	23576	98%	2%	0%
OLA051	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-54	-54	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	5194	0	-54	-54	2.0	11	197	184	185	23576	98%	2%	0%
OLA052	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	5154	0	-	-	0.0	-	197	185	-	23576	98%	2%	0%
OLA053	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-61	-61	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	5153	0	-	-	0.0	-	197	184	-	23576	98%	2%	0%
OLA054	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-72	-72	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	5102	0	-	-	0.0	-	197	184	-	23576	98%	2%	0%
OLA055	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	5093	0	-	-	0.0	-	197	185	-	23576	98%	2%	0%
OLA056	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-73	-73	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	5051	0	-	-	0.0	-	197	185	-	23576	98%	2%	0%
OLA057	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	5040	0	-	-	0.0	-	197	185	-	23576	98%	2%	0%
OLA058	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-73	-73	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	25	4998	0	-	-	0.0	-	197	185	-	23576	98%	2%	0%

OLA059	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	4978	0	-	-	0.0	-	197	185	-	23576	98%	2%	0%
OLA060	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	4947	0	-	-	0.0	-	197	186	-	23576	98%	2%	0%
OLA061	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	4904	0	-	-	0.0	-	197	184	-	23576	98%	2%	0%
OLA062	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	21	4891	0	-	-	0.0	-	197	186	-	23576	98%	2%	0%
OLA063	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	24	4848	0	-	-	0.0	-	197	185	-	23576	98%	2%	0%
OLA064	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-72	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	4850	0	-	-	0.0	-	197	186	-	23576	98%	2%	0%
OLA065	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	30	4772	0	-	-	0.0	-	197	183	-	23576	98%	2%	0%
OLA066	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	4717	0	-	-	0.0	-	197	183	-	23576	98%	2%	0%
OLA067	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-70	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	4682	0	-70	-70	1.8	14	197	181	182	23576	98%	2%	0%
OLA068	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	4637	0	-	-	0.0	-	197	180	-	23576	98%	2%	0%
OLA069	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-70	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	4612	0	-70	-70	1.8	31	197	181	180	23576	98%	2%	0%
OLA070	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-70	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	4563	0	-70	-70	1.8	17	197	179	178	23576	98%	2%	0%
OLA071	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	4548	0	-	-	0.0	-	197	178	-	23576	98%	2%	0%
OLA072	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	39	4483	0	-	-	0.0	-	197	177	-	23576	98%	2%	0%
OLA073	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-70	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	4480	0	-70	-70	1.9	10	197	177	177	23576	98%	2%	0%
OLA074	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	4402	0	-	-	0.0	-	197	176	-	23576	98%	2%	0%
OLA075	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-69	-69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	4398	0	-	-	0.0	-	197	175	-	23576	98%	2%	0%
OLA076	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-76	-76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	72	4334	0	-	-	0.0	-	197	175	-	23576	98%	2%	0%
OLA077	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	32	4097	0	90	90	6.0	3	197	174	174	23576	98%	2%	0%
OLA078	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-82	-82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	64	4091	0	-82	-82	6.0	3	197	172	172	23576	98%	2%	0%
OLA079	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	4016	0	-	-	0.0	-	197	175	-	23576	98%	2%	0%
OLA080	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-72	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	23	4019	0	-	-	0.0	-	197	174	-	23576	98%	2%	0%
OLA081	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	65	3965	0	-	-	0.0	-	197	175	-	23576	98%	2%	0%
OLA082	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-68	-68	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	3693	0	-68	-68	1.8	15	197	181	181	23576	98%	2%	0%
OLA083	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-72	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	3646	0	-72	-72	2.0	13	197	182	182	23576	98%	2%	0%
OLA084	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-78	-77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	3594	0	-78	-77	1.6	18	197	183	182	23576	98%	2%	0%
OLA085	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	3481	0	-	-	0.0	-	197	182	-	23576	98%	2%	0%
OLA086	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	69	2103	0	-	-	0.0	-	197	193	-	23576	98%	2%	0%
OLA087	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-74	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	54	2062	0	-	-	0.0	-	197	194	-	23576	98%	2%	0%
OLA088	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	77	2045	0	-	-	0.0	-	197	194	-	23576	98%	2%	0%
OLA089	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	1818	0	-	-	0.0	-	197	205	-	23576	98%	2%	0%
OLA090	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-72	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	74	1806	0	-	-	0.0	-	197	205	-	23576	98%	2%	0%
OLA091	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-67	-66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	1444	0	-	-	0.0	-	197	203	-	23576	98%	2%	0%
OLA092	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-66	-64	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	1308	0	-66	-64	3.0	3	197	203	203	23576	98%	2%	0%
OLA093	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-64	-62	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	1223	0	-	-	0.0	-	197	202	-	23576	98%	2%	0%
OLA094	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	1072	0	-	-	0.0	-	197	202	-	23576	98%	2%	0%
OLA095	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	66	1012	0	-80	-77	6.0	3	197	202	202	23576	98%	2%	0%
OLA096	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	82	84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	98	934	0	-	-	0.0	-	197	202	-	23576	98%	2%	0%
OLA097	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	930	0	-90	-88	1.8	5	197	202	201	23576	98%	2%	0%
OLA098	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	894	0	-90	-87	1.8	4	197	202	202	23576	98%	2%	0%
OLA099	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	744	0	-90	-88	24.0	3	197	201	201	23576	98%	2%	0%
OLA100	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	75	79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	245	0	75	79	2.2	7	197	202	202	23576	98%	2%	0%
OLA101	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	73	76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	174	0	73	76	2.1	6	197	201	201	23576	98%	2%	0%
OLA102	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-22	62	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	76	76	0	50	62	6.0	3	197	198	198	23576	98%	2%	0%
OLA103	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-59	33	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	70	70	0	-	-	0.0	-	196	197	-	23576	98%	2%	0%
OLA104	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-64	-54	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	99	173	0	-	-	0.0	-	196	196	-	23576	98%	2%	0%

Start of Construction - 2030 S06_NBc Kennedy Road Denison Street Steeles Avenue

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	165	7928	0	-86	-86	2.0	7	196	209	209	23576	98%	2%	0%
OLA002	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	7854	0	-	-	0.0	-	196	207	-	23576	98%	2%	0%
OLA003	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	7829	0	-	-	0.0	-	196	207	-	23576	98%	2%	0%
OLA004	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	64	7734	0	-	-	0.0	-	196	207	-	23576	98%	2%	0%
OLA005	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	37	7693	0	-	-	0.0	-	196	208	-	23576	98%	2%	0%
OLA006	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	7663	0	-87	-86	2.1	6	196	207	207	23576	98%	2%	0%
OLA007	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	7662	0	-	-	0.0	-	196	208	-	23576	98%	2%	0%
OLA008	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	-87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	7592	0	-87	-87	2.0	12	196	207	207	23576	98%	2%	0%
OLA009	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	31	7587	0	-	-	0.0	-	196	207	-	23576	98%	2%	0%
OLA010	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	7492	0	-87	-86	1.9	8	196	206	206	23576	98%	2%	0%
OLA011	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	71	7490	0	-	-	0.0	-	196	206	-	23576	98%	2%	0%
OLA012	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	7404	0	-86	-86	2.4	7	196	204	204	23576	98%	2%	0%
OLA013	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	7345	0	-	-	0.0	-	196	204	-	23576	98%	2%	0%
OLA014	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	28	7327	0	-	-	0.0	-	196	203	-	23576	98%	2%	0%
OLA015	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	7248	0	-	-	0.0	-	196	202	-	23576	98%	2%	0%
OLA016	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	74	7201	0	-	-	0.0	-	196	200	-	23576	98%	2%	0%
OLA017	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-85	-84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	29	6967	0	-85	-84	1.9	7	196	196	196	23576	98%	2%	0%
OLA018	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-85	-84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	6932	0	-85	-84	1.9	2	196	196	196	23576	98%	2%	0%
OLA019	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-84	-84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	54	6894	0	-	-	0.0	-	196	197	-	23576	98%	2%	0%
OLA020	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-84	-84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	33	6798	0	-84	-84	2.0	8	196	197	197	23576	98%	2%	0%
OLA021	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-84	-83	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	6755	0	-	-	0.0	-	196	200	-	23576	98%	2%	0%
OLA022	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-81	-81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	6608	0	-81	-81	9.0	3	196	200	200	23576	98%	2%	0%
OLA023	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	83	6567	0	-	-	0.0	-	196	199	-	23576	98%	2%	0%
OLA024	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	6388	0	-	-	0.0	-	196	193	-	23576	98%	2%	0%
OLA025	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-82	-82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	6330	0	-82	-82	1.8	5	196	191	192	23576	98%	2%	0%
OLA026	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	5928	0	-	-	0.0	-	196	183	-	23576	98%	2%	0%
OLA027	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	-85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	5895	0	-86	-85	2.5	26	196	185	184	23576	98%	2%	0%
OLA028	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	5853	0	-	-	0.0	-	196	182	-	23576	98%	2%	0%
OLA029	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-76	-76	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	5837	0	-	-	0.0	-	196	185	-	23576	98%	2%	0%
OLA030	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-72	-71	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	5796	0	-	-	0.0	-	196	184	-	23576	98%	2%	0%
OLA031	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	52	5776	0	-	-	0.0	-	196	182	-	23576	98%	2%	0%
OLA032	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	72	5700	0	-	-	0.0	-	196	181	-	23576	98%	2%	0%
OLA033	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-52	-52	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	5716	0	-	-	0.0	-	196	182	-	23576	98%	2%	0%
OLA034	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	5695	0	-	-	0.0	-	196	182	-	23576	98%	2%	0%
OLA035	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	46	5628	0	-	-	0.0	-	196	182	-	23576	98%	2%	0%
OLA036	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-40	-40	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	5669	0	-	-	0.0	-	196	182	-	23576	98%	2%	0%
OLA037	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	5596	0	-	-	0.0	-	196	182	-	23576	98%	2%	0%
OLA038	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-30	-29	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	5630	0	-	-	0.0	-	196	182	-	23576	98%	2%	0%
OLA039	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	5565	0	-	-	0.0	-	196	181	-	23576	98%	2%	0%
OLA040	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-21	-20	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	5606	0	-	-	0.0	-	196	183	-	23576	98%	2%	0%
OLA041	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	5537	0	-	-	0.0	-	196	181	-	23576	98%	2%	0%
OLA042	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	5533	0	-	-	0.0	-	196	182	-	23576	98%	2%	0%
OLA043	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-15	-14	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	5593	0	-15	-14	1.8	12	196	183	182	23576	98%	2%	0%
OLA044	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	39	5519	0	-	-	0.0	-	196	182	-	23576	98%	2%	0%
OLA045	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	5505	0	-	-	0.0	-	196	183	-	23576	98%	2%	0%
OLA046	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-22	-21	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	5567	0	-	-	0.0	-	196	185	-	23576	98%	2%	0%
OLA047	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	5469	0	-	-	0.0	-	196	183	-	23576	98%	2%	0%
OLA048	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-42	-41	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	5492	0	-42	-41	2.0	10	196	184	184	23576	98%	2%	0%
OLA049	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-48	-47	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	5473	0	-48	-47	2.0	25	196	184	185	23576	98%	2%	0%
OLA050	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	5429	0	-	-	0.0	-	196	185	-	23576	98%	2%	0%
OLA051	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-54	-54	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	5421	0	-54	-54	2.0	11	196	184	185	23576	98%	2%	0%
OLA052	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	5381	0	-	-	0.0	-	196	185	-	23576	98%	2%	0%
OLA053	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-62	-61	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	5380	0	-62	-61	2.0	19	196	184	185	23576	98%	2%	0%
OLA054	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-72	-72	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	5329	0	-72	-72	2.0	12	196	184	186	23576	98%	2%	0%
OLA055	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	5320	0	-	-	0.0	-	196	185	-	23576	98%	2%	0%
OLA056	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-74	-73	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	5278	0	-74	-73	2.0	13	196	185	186	23576	98%	2%	0%
OLA057	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	5267	0	-	-	0.0	-	196	185	-	23576	98%	2%	0%
OLA058	60	0.0%	2 Manual	1 Typical Asphalt or Concrete	-74	-73	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	25	5225	0	-74	-73	2.0	10	196	185	186	23576	98%	2%	0%

OLA059	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	5205	0	-	-	0.0	-	196	185	-	23576	98%	2%	0%
OLA060	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	5174	0	-73	-73	1.8	15	196	186	186	23576	98%	2%	0%
OLA061	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	5131	0	-	-	0.0	-	196	184	-	23576	98%	2%	0%
OLA062	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	21	5117	0	-73	-73	1.8	7	196	186	185	23576	98%	2%	0%
OLA063	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	24	5075	0	-	-	0.0	-	196	185	-	23576	98%	2%	0%
OLA064	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	5076	0	-73	-72	1.8	6	196	186	185	23576	98%	2%	0%
OLA065	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	30	4999	0	-	-	0.0	-	196	183	-	23576	98%	2%	0%
OLA066	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	4944	0	-	-	0.0	-	196	183	-	23576	98%	2%	0%
OLA067	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-71	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	4909	0	-71	-70	1.8	14	196	181	182	23576	98%	2%	0%
OLA068	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	4863	0	-	-	0.0	-	196	180	-	23576	98%	2%	0%
OLA069	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-71	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	4838	0	-71	-70	1.8	31	196	181	180	23576	98%	2%	0%
OLA070	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-71	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	4789	0	-71	-70	1.8	17	196	179	178	23576	98%	2%	0%
OLA071	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	4775	0	-	-	0.0	-	196	178	-	23576	98%	2%	0%
OLA072	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	39	4710	0	-	-	0.0	-	196	177	-	23576	98%	2%	0%
OLA073	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-71	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	4707	0	-71	-70	1.9	10	196	177	177	23576	98%	2%	0%
OLA074	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	4629	0	-	-	0.0	-	196	176	-	23576	98%	2%	0%
OLA075	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-70	-69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	4625	0	-	-	0.0	-	196	175	-	23576	98%	2%	0%
OLA076	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	72	4561	0	-	-	0.0	-	196	175	-	23576	98%	2%	0%
OLA077	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	32	4324	0	89	90	6.0	3	196	174	174	23576	98%	2%	0%
OLA078	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-83	-82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	64	4318	0	-83	-82	6.0	3	196	172	172	23576	98%	2%	0%
OLA079	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	4242	0	-	-	0.0	-	196	175	-	23576	98%	2%	0%
OLA080	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	23	4246	0	-	-	0.0	-	196	174	-	23576	98%	2%	0%
OLA081	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	65	4192	0	-	-	0.0	-	196	175	-	23576	98%	2%	0%
OLA082	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-70	-68	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	3919	0	-70	-68	1.8	15	196	181	181	23576	98%	2%	0%
OLA083	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	3872	0	-73	-72	2.0	13	196	182	182	23576	98%	2%	0%
OLA084	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-79	-78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	3820	0	-79	-78	1.6	18	196	183	182	23576	98%	2%	0%
OLA085	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	3707	0	-	-	0.0	-	196	182	-	23576	98%	2%	0%
OLA086	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	69	2329	0	-	-	0.0	-	196	193	-	23576	98%	2%	0%
OLA087	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-76	-74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	54	2288	0	-	-	0.0	-	196	194	-	23576	98%	2%	0%
OLA088	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	77	2271	0	-	-	0.0	-	196	194	-	23576	98%	2%	0%
OLA089	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	2044	0	-	-	0.0	-	196	205	-	23576	98%	2%	0%
OLA090	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-74	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	74	2031	0	-	-	0.0	-	196	205	-	23576	98%	2%	0%
OLA091	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-71	-67	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	1667	0	-	-	0.0	-	196	203	-	23576	98%	2%	0%
OLA092	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-70	-66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	1529	0	-70	-66	3.0	3	196	203	203	23576	98%	2%	0%
OLA093	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-69	-64	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	1442	0	-	-	0.0	-	196	202	-	23576	98%	2%	0%
OLA094	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-80	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	1287	0	-	-	0.0	-	196	202	-	23576	98%	2%	0%
OLA095	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	66	1225	0	-	-	0.0	-	196	202	-	23576	98%	2%	0%
OLA096	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	77	82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	98	1157	0	-	-	0.0	-	196	202	-	23576	98%	2%	0%
OLA097	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	1145	0	-	-	0.0	-	196	202	-	23576	98%	2%	0%
OLA098	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	1107	0	-	-	0.0	-	196	202	-	23576	98%	2%	0%
OLA099	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	959	0	-	-	0.0	-	196	201	-	23576	98%	2%	0%
OLA100	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	67	75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	471	0	67	75	2.2	7	196	202	202	23576	98%	2%	0%
OLA101	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	66	73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	400	0	66	73	2.1	6	196	201	201	23576	98%	2%	0%
OLA102	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	62	65	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	76	219	0	62	65	6.0	3	196	198	198	23576	98%	2%	0%
OLA103	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	33	70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	70	82	0	65	70	6.0	3	196	197	197	23576	98%	2%	0%
OLA104	60	0.0%	2	Manual	1	Typical Asphalt or Concrete	-54	46	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	99	99	0	40	46	6.0	3	194	196	196	23576	98%	2%	0%

Start of Construction - 2030 S01_SB Kennedy Road Major Mackenzie Drive 16th Avenue

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	31	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	174	174	0	-86	31	2.0	7	206	209	209	16589	96%	2%	2%
OLA002	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	72	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	57	57	0	-60	72	6.0	3	206	207	207	16589	96%	2%	2%
OLA003	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	-80	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	33	33	0	-80	88	2.0	4	206	207	206	16589	96%	2%	2%
OLA004	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	-79	87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	55	55	0	-79	45	6.0	3	206	207	207	16589	96%	2%	2%
OLA005	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	-85	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	28	0	-85	89	2.2	5	206	208	207	16589	96%	2%	2%
OLA006	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	40	0	-90	84	2.1	6	207	207	207	16589	96%	2%	2%
OLA007	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	-85	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	32	0	-85	88	2.1	5	207	208	207	16589	96%	2%	2%
OLA008	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	40	0	-90	84	2.0	12	207	207	207	16589	96%	2%	2%
OLA009	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	22	22	0	-87	89	2.1	5	207	207	207	16589	96%	2%	2%
OLA010	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	49	49	0	-89	85	1.9	8	206	206	206	16589	96%	2%	2%
OLA011	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	-84	87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	62	0	-80	-45	9.0	3	206	206	206	16589	96%	2%	2%
OLA012	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	47	0	-89	86	2.4	7	205	204	204	16589	96%	2%	2%
OLA013	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	56	56	0	-65	85	6.0	3	204	204	204	16589	96%	2%	2%
OLA014	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	19	19	0	-88	89	2.0	4	203	203	203	16589	96%	2%	2%
OLA015	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	24	24	0	-87	90	2.0	6	201	202	202	16589	96%	2%	2%
OLA016	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	-84	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	65	65	0	-	-	0.0	-	200	200	-	16589	96%	2%	2%
OLA017	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	38	38	0	-87	89	1.9	7	195	196	196	16589	96%	2%	2%
OLA018	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	40	0	-87	89	1.9	2	195	196	196	16589	96%	2%	2%
OLA019	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	-85	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	62	0	-60	50	6.0	3	195	197	197	16589	96%	2%	2%
OLA020	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	39	0	-86	90	2.0	8	196	197	197	16589	96%	2%	2%
OLA021	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	-84	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	69	69	0	-60	50	6.0	3	197	200	200	16589	96%	2%	2%
OLA022	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	-82	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	48	0	-82	20	9.0	3	201	200	200	16589	96%	2%	2%
OLA023	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	73	73	0	-50	50	6.0	3	201	199	199	16589	96%	2%	2%
OLA024	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	32	0	-45	45	6.0	3	195	193	193	16589	96%	2%	2%
OLA025	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	-80	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	37	37	0	-80	90	1.8	5	191	191	192	16589	96%	2%	2%
OLA026	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-41	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	53	71	0	-	-	0.0	-	184	183	-	16589	96%	2%	2%
OLA027	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	60	87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	49	101	0	-	-	0.0	-	184	185	-	16589	96%	2%	2%
OLA028	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	-74	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	128	0	-	-	0.0	-	184	182	-	16589	96%	2%	2%
OLA029	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	77	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	55	159	0	-	-	0.0	-	184	185	-	16589	96%	2%	2%
OLA030	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	85	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	51	200	0	-	-	0.0	-	184	184	-	16589	96%	2%	2%
OLA031	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	-73	-64	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	203	0	-	-	0.0	-	184	182	-	16589	96%	2%	2%
OLA032	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	-68	-62	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	65	279	0	-	-	0.0	-	184	181	-	16589	96%	2%	2%
OLA033	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	283	0	-	-	0.0	-	184	182	-	16589	96%	2%	2%
OLA034	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	-65	-64	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	286	0	-	-	0.0	-	184	182	-	16589	96%	2%	2%
OLA035	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	-59	-52	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	361	0	-59	-52	6.0	3	184	182	182	16589	96%	2%	2%
OLA036	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	344	0	-	-	0.0	-	184	182	-	16589	96%	2%	2%
OLA037	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	-55	-44	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	406	0	-	-	0.0	-	184	182	-	16589	96%	2%	2%
OLA038	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	403	0	-	-	0.0	-	184	182	-	16589	96%	2%	2%
OLA039	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	-54	-40	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	450	0	-	-	0.0	-	184	181	-	16589	96%	2%	2%
OLA040	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	452	0	-	-	0.0	-	184	183	-	16589	96%	2%	2%
OLA041	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	-47	-29	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	36	502	0	-	-	0.0	-	184	181	-	16589	96%	2%	2%
OLA042	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	-49	-30	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	521	0	-	-	0.0	-	184	182	-	16589	96%	2%	2%
OLA043	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	37	496	0	-	-	0.0	-	184	183	-	16589	96%	2%	2%
OLA044	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	-52	-30	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	563	0	-44	-30	1.8	9	184	182	182	16589	96%	2%	2%
OLA045	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	-61	-37	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	601	0	-	-	0.0	-	184	183	-	16589	96%	2%	2%
OLA046	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	577	0	-	-	0.0	-	184	185	-	16589	96%	2%	2%
OLA047	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	-74	-49	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	666	0	-74	-49	6.0	11	184	183	183	16589	96%	2%	2%
OLA048	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	88	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	724	0	-	-	0.0	-	184	184	-	16589	96%	2%	2%
OLA049	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	82	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	757	0	-	-	0.0	-	184	184	-	16589	96%	2%	2%
OLA050	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-67	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	742	0	-	-	0.0	-	184	185	-	16589	96%	2%	2%
OLA051	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	77	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	810	0	77	84	2.0	11	184	184	185	16589	96%	2%	2%
OLA052	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-73	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	800	0	-	-	0.0	-	184	185	-	16589	96%	2%	2%
OLA053	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	70	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	862	0	70	77	2.0	19	184	184	185	16589	96%	2%	2%
OLA054	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	61	86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	908	0	61	73	2.0	12	184	184	186	16589	96%	2%	2%
OLA055	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	36	863	0	-	-	0.0	-	184	185	-	16589	96%	2%	2%
OLA056	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	61	84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	955	0	61	75	2.0	13	184	185	186	16589	96%	2%	2%
OLA057	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	37	913	0	-	-	0.0	-	184	185	-	16589	96%	2%	2%
OLA058	68	0.0%	2 Manual	1 Typical Asphalt or Concrete	62	84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	32	1003	0	62	78	2.0	10	184	185	186	16589	96%	2%	2%

OLA059	68	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	975	0	-	-	0.0	-	184	185	-	16589	96%	2%	2%
OLA060	68	0.0%	2	Manual	1	Typical Asphalt or Concrete	64	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	37	1054	0	64	85	1.8	15	184	186	186	16589	96%	2%	2%
OLA061	68	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	35	1044	0	-	-	0.0	-	184	184	-	16589	96%	2%	2%
OLA062	68	0.0%	2	Manual	1	Typical Asphalt or Concrete	65	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	30	1102	0	65	85	1.8	7	184	186	185	16589	96%	2%	2%
OLA063	68	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	17	1111	0	-	-	0.0	-	184	185	-	16589	96%	2%	2%
OLA064	68	0.0%	2	Manual	1	Typical Asphalt or Concrete	66	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	52	1157	0	66	83	1.8	6	184	186	185	16589	96%	2%	2%
OLA065	68	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	1182	0	-	-	0.0	-	184	183	-	16589	96%	2%	2%
OLA066	68	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	1230	0	-	-	0.0	-	184	183	-	16589	96%	2%	2%
OLA067	68	0.0%	2	Manual	1	Typical Asphalt or Concrete	69	86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	1324	0	69	86	1.8	14	184	181	182	16589	96%	2%	2%
OLA068	68	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	1313	0	-	-	0.0	-	184	180	-	16589	96%	2%	2%
OLA069	68	0.0%	2	Manual	1	Typical Asphalt or Concrete	70	86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	59	1394	0	70	86	1.8	31	184	181	180	16589	96%	2%	2%
OLA070	68	0.0%	2	Manual	1	Typical Asphalt or Concrete	71	86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	1435	0	71	86	1.8	17	184	179	178	16589	96%	2%	2%
OLA071	68	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	1403	0	-	-	0.0	-	184	178	-	16589	96%	2%	2%
OLA072	68	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	1467	0	-	-	0.0	-	184	177	-	16589	96%	2%	2%
OLA073	68	0.0%	2	Manual	1	Typical Asphalt or Concrete	72	86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	1516	0	72	86	1.9	10	184	177	177	16589	96%	2%	2%
OLA074	68	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	1543	0	-	-	0.0	-	184	176	-	16589	96%	2%	2%
OLA075	68	0.0%	2	Manual	1	Typical Asphalt or Concrete	73	86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	68	1612	0	-	-	0.0	-	184	175	-	16589	96%	2%	2%
OLA076	68	0.0%	2	Manual	1	Typical Asphalt or Concrete	67	79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	78	1674	0	-	-	0.0	-	184	175	-	16589	96%	2%	2%
OLA077	68	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	1813	0	-	-	0.0	-	184	174	-	16589	96%	2%	2%
OLA078	68	0.0%	2	Manual	1	Typical Asphalt or Concrete	65	75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	72	1868	0	-	-	0.0	-	184	172	-	16589	96%	2%	2%
OLA079	68	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	36	1886	0	-	-	0.0	-	184	175	-	16589	96%	2%	2%
OLA080	68	0.0%	2	Manual	1	Typical Asphalt or Concrete	78	86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	31	1916	0	-	-	0.0	-	184	174	-	16589	96%	2%	2%
OLA081	68	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	1928	0	-	-	0.0	-	184	175	-	16589	96%	2%	2%
OLA082	68	2.6%	2	Manual	1	Typical Asphalt or Concrete	80	87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	2276	0	-	-	0.0	-	184	181	-	16589	96%	2%	2%
OLA083	68	2.6%	2	Manual	1	Typical Asphalt or Concrete	77	84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	2319	0	77	84	2.0	13	184	182	182	16589	96%	2%	2%
OLA084	68	0.0%	2	Manual	1	Typical Asphalt or Concrete	71	78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	2373	0	71	78	1.6	18	184	183	182	16589	96%	2%	2%
OLA085	68	0.0%	2	Manual	1	Typical Asphalt or Concrete	54	60	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	34	2467	0	54	60	2.6	8	184	182	181	16589	96%	2%	2%
OLA086	68	3.8%	2	Manual	1	Typical Asphalt or Concrete	89	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	77	3719	0	89	89	2.0	19	184	193	194	16589	96%	2%	2%
OLA087	68	3.8%	2	Manual	1	Typical Asphalt or Concrete	89	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	3757	0	89	89	2.0	55	184	194	194	16589	96%	2%	2%
OLA088	68	3.8%	2	Manual	1	Typical Asphalt or Concrete	89	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	84	3782	0	89	89	6.0	21	184	194	194	16589	96%	2%	2%
OLA089	68	3.8%	2	Manual	1	Typical Asphalt or Concrete	88	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	4009	0	-	-	0.0	-	184	205	-	16589	96%	2%	2%
OLA090	68	3.8%	2	Manual	1	Typical Asphalt or Concrete	88	88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	81	4035	0	-	-	0.0	-	184	205	-	16589	96%	2%	2%
OLA091	68	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	4411	0	-	-	0.0	-	184	203	-	16589	96%	2%	2%
OLA092	68	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	4557	0	-	-	0.0	-	184	203	-	16589	96%	2%	2%
OLA093	68	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	4655	0	89	89	1.7	17	184	202	201	16589	96%	2%	2%
OLA094	68	0.0%	2	Manual	1	Typical Asphalt or Concrete	76	76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	4827	0	-	-	0.0	-	184	202	-	16589	96%	2%	2%
OLA095	68	0.0%	2	Manual	1	Typical Asphalt or Concrete	68	68	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	73	4897	0	-	-	0.0	-	184	202	-	16589	96%	2%	2%
OLA096	68	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	91	4886	0	-	-	0.0	-	184	202	-	16589	96%	2%	2%
OLA097	68	0.0%	2	Manual	1	Typical Asphalt or Concrete	60	60	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	33	4948	0	60	60	1.8	5	184	202	201	16589	96%	2%	2%
OLA098	68	0.0%	2	Manual	1	Typical Asphalt or Concrete	59	59	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	4992	0	-	-	0.0	-	184	202	-	16589	96%	2%	2%
OLA099	68	0.0%	2	Manual	1	Typical Asphalt or Concrete	59	59	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	47	5114	0	-	-	0.0	-	184	201	-	16589	96%	2%	2%
OLA100	68	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	5517	0	-	-	0.0	-	184	202	-	16589	96%	2%	2%
OLA101	68	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	5584	0	-	-	0.0	-	184	201	-	16589	96%	2%	2%
OLA102	68	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	69	5769	0	-	-	0.0	-	184	198	-	16589	96%	2%	2%
OLA103	68	0.0%	2	Manual	1	Typical Asphalt or Concrete	-88	-87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	62	5938	0	-	-	0.0	-	184	197	-	16589	96%	2%	2%
OLA104	68	0.0%	2	Manual	1	Typical Asphalt or Concrete	-80	-78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	91	6137	0	-	-	0.0	-	184	196	-	16589	96%	2%	2%

Start of Construction - 2030 S02_SBa Kennedy Road 16th Avenue Highway 7

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	174	1949	0	-87	-86	2.0	7	184	209	209	23691	95%	3%	3%
OLA002	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	57	1878	0	-	-	0.0	-	184	207	-	23691	95%	3%	3%
OLA003	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	88	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	33	1859	0	88	88	2.0	4	184	207	206	23691	95%	3%	3%
OLA004	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	87	87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	55	1766	0	-	-	0.0	-	184	207	-	23691	95%	3%	3%
OLA005	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	88	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	1723	0	88	89	2.2	5	184	208	207	23691	95%	3%	3%
OLA006	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	1688	0	-90	-90	2.1	6	184	207	207	23691	95%	3%	3%
OLA007	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	87	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	1691	0	87	88	2.1	5	184	208	207	23691	95%	3%	3%
OLA008	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	1616	0	-90	-90	2.0	12	184	207	207	23691	95%	3%	3%
OLA009	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	88	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	22	1615	0	88	89	2.1	5	184	207	207	23691	95%	3%	3%
OLA010	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	49	1516	0	-90	-89	1.9	8	184	206	206	23691	95%	3%	3%
OLA011	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	86	87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	1523	0	-	-	0.0	-	184	206	-	23691	95%	3%	3%
OLA012	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	1427	0	-90	-89	2.4	7	184	204	204	23691	95%	3%	3%
OLA013	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	56	1368	0	-	-	0.0	-	184	204	-	23691	95%	3%	3%
OLA014	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	88	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	19	1355	0	88	89	2.0	4	184	203	203	23691	95%	3%	3%
OLA015	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	24	1276	0	89	90	2.0	6	184	202	202	23691	95%	3%	3%
OLA016	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	88	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	65	1233	0	-	-	0.0	-	184	200	-	23691	95%	3%	3%
OLA017	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	38	989	0	-89	-87	1.9	7	184	196	196	23691	95%	3%	3%
OLA018	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	954	0	-89	-87	1.9	2	184	196	196	23691	95%	3%	3%
OLA019	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	-85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	915	0	-	-	0.0	-	184	197	-	23691	95%	3%	3%
OLA020	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	820	0	-88	-86	2.0	8	184	197	197	23691	95%	3%	3%
OLA021	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	-83	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	69	776	0	-	-	0.0	-	184	200	-	23691	95%	3%	3%
OLA022	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-85	-82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	629	0	-85	-82	9.0	3	184	200	200	23691	95%	3%	3%
OLA023	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	84	84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	73	600	0	-	-	0.0	-	184	199	-	23691	95%	3%	3%
OLA024	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	88	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	414	0	-	-	0.0	-	184	193	-	23691	95%	3%	3%
OLA025	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	-80	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	37	351	0	-86	-80	1.8	5	184	191	192	23691	95%	3%	3%
OLA026	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-41	68	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	53	53	0	55	68	6.0	3	184	183	183	23691	95%	3%	3%
OLA027	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-84	60	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	49	49	0	-84	-15	2.5	26	184	185	184	23691	95%	3%	3%
OLA028	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-74	66	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	32	0	-	-	0.0	-	184	182	-	23691	95%	3%	3%
OLA029	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-66	77	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	55	55	0	-62	65	2.5	33	183	185	184	23691	95%	3%	3%
OLA030	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-47	85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	51	51	0	-40	60	6.0	3	182	184	184	23691	95%	3%	3%
OLA031	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-64	53	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	45	0	-	-	0.0	-	183	182	-	23691	95%	3%	3%
OLA032	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-62	-5	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	65	66	0	-	-	0.0	-	181	181	-	23691	95%	3%	3%
OLA033	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	58	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	56	0	-	-	0.0	-	181	182	-	23691	95%	3%	3%
OLA034	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-65	-35	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	44	0	-	-	0.0	-	181	182	-	23691	95%	3%	3%
OLA035	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-62	-59	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	113	0	-62	-59	6.0	3	181	182	182	23691	95%	3%	3%
OLA036	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	85	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	116	0	-	-	0.0	-	181	182	-	23691	95%	3%	3%
OLA037	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-66	-55	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	161	0	-	-	0.0	-	181	182	-	23691	95%	3%	3%
OLA038	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	181	0	-	-	0.0	-	181	182	-	23691	95%	3%	3%
OLA039	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-66	-54	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	210	0	-	-	0.0	-	181	181	-	23691	95%	3%	3%
OLA040	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	238	0	-	-	0.0	-	181	183	-	23691	95%	3%	3%
OLA041	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-61	-47	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	36	270	0	-	-	0.0	-	181	181	-	23691	95%	3%	3%
OLA042	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-64	-49	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	294	0	-	-	0.0	-	181	182	-	23691	95%	3%	3%
OLA043	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	37	292	0	-	-	0.0	-	181	183	-	23691	95%	3%	3%
OLA044	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-68	-52	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	345	0	-	-	0.0	-	181	182	-	23691	95%	3%	3%
OLA045	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-77	-61	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	388	0	-	-	0.0	-	181	183	-	23691	95%	3%	3%
OLA046	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	384	0	-	-	0.0	-	181	185	-	23691	95%	3%	3%
OLA047	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	-74	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	456	0	-88	-74	6.0	11	181	183	183	23691	95%	3%	3%
OLA048	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	74	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	533	0	-	-	0.0	-	181	184	-	23691	95%	3%	3%
OLA049	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	68	82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	566	0	-	-	0.0	-	181	184	-	23691	95%	3%	3%
OLA050	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	534	0	-	-	0.0	-	181	185	-	23691	95%	3%	3%
OLA051	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	65	77	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	612	0	65	77	2.0	11	181	184	185	23691	95%	3%	3%
OLA052	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	589	0	-	-	0.0	-	181	185	-	23691	95%	3%	3%
OLA053	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	59	70	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	662	0	59	70	2.0	19	181	184	185	23691	95%	3%	3%
OLA054	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	51	61	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	701	0	51	61	2.0	12	181	184	186	23691	95%	3%	3%
OLA055	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	36	648	0	-	-	0.0	-	181	185	-	23691	95%	3%	3%
OLA056	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	52	61	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	744	0	52	61	2.0	13	181	185	186	23691	95%	3%	3%
OLA057	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	37	694	0	-	-	0.0	-	181	185	-	23691	95%	3%	3%
OLA058	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	54	62	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	32	787	0	54	62	2.0	10	181	185	186	23691	95%	3%	3%

OLA059	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	751	0	-	-	0.0	-	181	185	-	23691	95%	3%	3%
OLA060	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	56	64	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	37	835	0	56	64	1.8	15	181	186	186	23691	95%	3%	3%
OLA061	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	35	817	0	-	-	0.0	-	181	184	-	23691	95%	3%	3%
OLA062	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	59	65	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	30	879	0	59	65	1.8	7	181	186	185	23691	95%	3%	3%
OLA063	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	17	882	0	-	-	0.0	-	181	185	-	23691	95%	3%	3%
OLA064	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	60	66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	52	933	0	60	66	1.8	6	181	186	185	23691	95%	3%	3%
OLA065	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	950	0	-	-	0.0	-	181	183	-	23691	95%	3%	3%
OLA066	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	995	0	-	-	0.0	-	181	183	-	23691	95%	3%	3%
OLA067	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	65	69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	1094	0	65	69	1.8	14	181	181	182	23691	95%	3%	3%
OLA068	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	1076	0	-	-	0.0	-	181	180	-	23691	95%	3%	3%
OLA069	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	66	70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	59	1162	0	66	70	1.8	31	181	181	180	23691	95%	3%	3%
OLA070	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	68	71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	1201	0	68	71	1.8	17	181	179	178	23691	95%	3%	3%
OLA071	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	1165	0	-	-	0.0	-	181	178	-	23691	95%	3%	3%
OLA072	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	1228	0	-	-	0.0	-	181	177	-	23691	95%	3%	3%
OLA073	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	69	72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	1279	0	69	72	1.9	10	181	177	177	23691	95%	3%	3%
OLA074	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	1302	0	-	-	0.0	-	181	176	-	23691	95%	3%	3%
OLA075	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	70	73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	68	1376	0	-	-	0.0	-	181	175	-	23691	95%	3%	3%
OLA076	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	64	67	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	78	1435	0	-	-	0.0	-	181	175	-	23691	95%	3%	3%
OLA077	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	1567	0	-	-	0.0	-	181	174	-	23691	95%	3%	3%
OLA078	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	64	65	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	72	1624	0	-	-	0.0	-	181	172	-	23691	95%	3%	3%
OLA079	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	36	1639	0	-	-	0.0	-	181	175	-	23691	95%	3%	3%
OLA080	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	77	78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	31	1671	0	-	-	0.0	-	181	174	-	23691	95%	3%	3%
OLA081	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	1681	0	-	-	0.0	-	181	175	-	23691	95%	3%	3%
OLA082	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	79	80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	2030	0	-	-	0.0	-	181	181	-	23691	95%	3%	3%
OLA083	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	76	77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	2073	0	76	77	2.0	13	181	182	182	23691	95%	3%	3%
OLA084	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	71	71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	2126	0	71	71	1.6	18	181	183	182	23691	95%	3%	3%
OLA085	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	54	54	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	34	2220	0	54	54	2.6	8	181	182	181	23691	95%	3%	3%
OLA086	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	77	3471	0	89	89	2.0	19	181	193	194	23691	95%	3%	3%
OLA087	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	3509	0	89	89	2.0	55	181	194	194	23691	95%	3%	3%
OLA088	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	84	3534	0	89	89	6.0	21	181	194	194	23691	95%	3%	3%
OLA089	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	88	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	3761	0	-	-	0.0	-	181	205	-	23691	95%	3%	3%
OLA090	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	88	88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	81	3787	0	-	-	0.0	-	181	205	-	23691	95%	3%	3%
OLA091	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	4163	0	-	-	0.0	-	181	203	-	23691	95%	3%	3%
OLA092	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	4309	0	-	-	0.0	-	181	203	-	23691	95%	3%	3%
OLA093	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	4407	0	89	89	1.7	17	181	202	201	23691	95%	3%	3%
OLA094	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	76	76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	4579	0	-	-	0.0	-	181	202	-	23691	95%	3%	3%
OLA095	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	68	68	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	73	4650	0	-	-	0.0	-	181	202	-	23691	95%	3%	3%
OLA096	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	91	4639	0	-	-	0.0	-	181	202	-	23691	95%	3%	3%
OLA097	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	60	60	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	33	4700	0	60	60	1.8	5	181	202	201	23691	95%	3%	3%
OLA098	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	59	59	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	4745	0	59	59	1.8	4	181	202	202	23691	95%	3%	3%
OLA099	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	59	59	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	47	4867	0	-	-	0.0	-	181	201	-	23691	95%	3%	3%
OLA100	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	5273	0	-	-	0.0	-	181	202	-	23691	95%	3%	3%
OLA101	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	5340	0	-	-	0.0	-	181	201	-	23691	95%	3%	3%
OLA102	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	69	5526	0	-	-	0.0	-	181	198	-	23691	95%	3%	3%
OLA103	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	62	5695	0	-	-	0.0	-	181	197	-	23691	95%	3%	3%
OLA104	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-78	-78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	91	5894	0	-	-	0.0	-	181	196	-	23691	95%	3%	3%

Start of Construction - 2030 S02_SBb Kennedy Road 16th Avenue Highway 7

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	174	2193	0	-90	-87	2.0	7	181	209	209	23691	95%	3%	3%
OLA002	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	57	2125	0	-	-	0.0	-	181	207	-	23691	95%	3%	3%
OLA003	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	82	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	33	2107	0	82	88	2.0	4	181	207	206	23691	95%	3%	3%
OLA004	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	55	2014	0	-	-	0.0	-	181	207	-	23691	95%	3%	3%
OLA005	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	82	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	1971	0	82	88	2.2	5	181	208	207	23691	95%	3%	3%
OLA006	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	1935	0	-	-	0.0	-	181	207	-	23691	95%	3%	3%
OLA007	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	1940	0	81	87	2.1	5	181	208	207	23691	95%	3%	3%
OLA008	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	1863	0	-	-	0.0	-	181	207	-	23691	95%	3%	3%
OLA009	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	82	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	22	1863	0	82	88	2.1	5	181	207	207	23691	95%	3%	3%
OLA010	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	49	1762	0	-	-	0.0	-	181	206	-	23691	95%	3%	3%
OLA011	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	80	86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	1772	0	-	-	0.0	-	181	206	-	23691	95%	3%	3%
OLA012	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	1674	0	-	-	0.0	-	181	204	-	23691	95%	3%	3%
OLA013	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	56	1615	0	-	-	0.0	-	181	204	-	23691	95%	3%	3%
OLA014	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	19	1603	0	81	88	2.0	4	181	203	203	23691	95%	3%	3%
OLA015	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	24	1525	0	81	89	2.0	6	181	202	202	23691	95%	3%	3%
OLA016	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	80	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	65	1482	0	-	-	0.0	-	181	200	-	23691	95%	3%	3%
OLA017	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	38	1236	0	-90	-89	1.9	7	181	196	196	23691	95%	3%	3%
OLA018	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	1201	0	-90	-89	1.9	2	181	196	196	23691	95%	3%	3%
OLA019	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	1161	0	-	-	0.0	-	181	197	-	23691	95%	3%	3%
OLA020	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	1066	0	-90	-88	2.0	8	181	197	197	23691	95%	3%	3%
OLA021	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	69	1022	0	-	-	0.0	-	181	200	-	23691	95%	3%	3%
OLA022	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	874	0	-90	-85	9.0	3	181	200	200	23691	95%	3%	3%
OLA023	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	73	84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	73	849	0	-	-	0.0	-	181	199	-	23691	95%	3%	3%
OLA024	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	74	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	663	0	-	-	0.0	-	181	193	-	23691	95%	3%	3%
OLA025	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	37	596	0	-90	-86	1.8	5	181	191	192	23691	95%	3%	3%
OLA026	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	52	68	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	53	217	0	55	68	6.0	3	181	183	183	23691	95%	3%	3%
OLA027	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	49	160	0	-90	-84	2.5	26	181	185	184	23691	95%	3%	3%
OLA028	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	51	66	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	137	0	-	-	0.0	-	181	182	-	23691	95%	3%	3%
OLA029	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-66	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	55	104	0	-	-	0.0	-	181	185	-	23691	95%	3%	3%
OLA030	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-47	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	51	67	0	-	-	0.0	-	181	184	-	23691	95%	3%	3%
OLA031	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	53	57	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	78	0	-	-	0.0	-	181	182	-	23691	95%	3%	3%
OLA032	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-5	53	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	65	65	0	-	-	0.0	-	181	181	-	23691	95%	3%	3%
OLA033	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	58	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	35	0	-	-	0.0	-	181	182	-	23691	95%	3%	3%
OLA034	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-35	61	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	35	0	30	61	6.0	3	181	182	182	23691	95%	3%	3%
OLA035	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-62	65	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	38	0	-62	-15	6.0	3	181	182	182	23691	95%	3%	3%
OLA036	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	34	0	-	-	0.0	-	181	182	-	23691	95%	3%	3%
OLA037	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-66	69	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	32	0	-	-	0.0	-	181	182	-	23691	95%	3%	3%
OLA038	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-85	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	34	0	-	-	0.0	-	182	182	-	23691	95%	3%	3%
OLA039	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-66	66	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	35	0	-	-	0.0	-	182	181	-	23691	95%	3%	3%
OLA040	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-70	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	34	0	-	-	0.0	-	182	183	-	23691	95%	3%	3%
OLA041	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-61	63	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	36	36	0	-	-	0.0	-	182	181	-	23691	95%	3%	3%
OLA042	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-64	52	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	32	0	35	52	6.0	3	182	182	182	23691	95%	3%	3%
OLA043	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-26	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	37	37	0	-26	-3	1.8	12	182	183	182	23691	95%	3%	3%
OLA044	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-68	-28	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	34	0	-44	-28	1.8	9	182	182	182	23691	95%	3%	3%
OLA045	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-77	-69	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	69	0	-	-	0.0	-	182	183	-	23691	95%	3%	3%
OLA046	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	58	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	83	0	-	-	0.0	-	182	185	-	23691	95%	3%	3%
OLA047	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	-85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	137	0	-88	-85	6.0	11	182	183	183	23691	95%	3%	3%
OLA048	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	64	74	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	219	0	-	-	0.0	-	182	184	-	23691	95%	3%	3%
OLA049	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	60	68	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	250	0	-	-	0.0	-	182	184	-	23691	95%	3%	3%
OLA050	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	215	0	-	-	0.0	-	182	185	-	23691	95%	3%	3%
OLA051	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	62	65	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	293	0	62	65	2.0	11	182	184	185	23691	95%	3%	3%
OLA052	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	271	0	-	-	0.0	-	182	185	-	23691	95%	3%	3%
OLA053	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	58	59	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	342	0	58	59	2.0	19	182	184	185	23691	95%	3%	3%
OLA054	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	51	53	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	382	0	51	53	2.0	12	182	184	186	23691	95%	3%	3%
OLA055	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	36	332	0	-	-	0.0	-	182	185	-	23691	95%	3%	3%
OLA056	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	52	55	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	426	0	52	55	2.0	13	182	185	186	23691	95%	3%	3%
OLA057	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	37	381	0	-	-	0.0	-	182	185	-	23691	95%	3%	3%
OLA058	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	54	59	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	32	471	0	54	59	2.0	10	182	185	186	23691	95%	3%	3%

OLA059	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	442	0	-	-	0.0	-	182	185	-	23691	95%	3%	3%
OLA060	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	56	62	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	37	522	0	56	62	1.8	15	182	186	186	23691	95%	3%	3%
OLA061	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	35	513	0	-	-	0.0	-	182	184	-	23691	95%	3%	3%
OLA062	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	59	65	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	30	569	0	59	65	1.8	7	182	186	185	23691	95%	3%	3%
OLA063	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	17	580	0	-	-	0.0	-	182	185	-	23691	95%	3%	3%
OLA064	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	60	66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	52	624	0	60	66	1.8	6	182	186	185	23691	95%	3%	3%
OLA065	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	652	0	-	-	0.0	-	182	183	-	23691	95%	3%	3%
OLA066	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	702	0	-	-	0.0	-	182	183	-	23691	95%	3%	3%
OLA067	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	65	71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	792	0	65	71	1.8	14	182	181	182	23691	95%	3%	3%
OLA068	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	786	0	-	-	0.0	-	182	180	-	23691	95%	3%	3%
OLA069	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	66	73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	59	864	0	66	73	1.8	31	182	181	180	23691	95%	3%	3%
OLA070	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	68	75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	906	0	68	75	1.8	17	182	179	178	23691	95%	3%	3%
OLA071	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	878	0	-	-	0.0	-	182	178	-	23691	95%	3%	3%
OLA072	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	944	0	-	-	0.0	-	182	177	-	23691	95%	3%	3%
OLA073	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	69	76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	988	0	69	76	1.9	10	182	177	177	23691	95%	3%	3%
OLA074	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	1023	0	-	-	0.0	-	182	176	-	23691	95%	3%	3%
OLA075	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	70	76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	68	1085	0	-	-	0.0	-	182	175	-	23691	95%	3%	3%
OLA076	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	64	71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	78	1148	0	-	-	0.0	-	182	175	-	23691	95%	3%	3%
OLA077	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	1306	0	-	-	0.0	-	182	174	-	23691	95%	3%	3%
OLA078	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	64	70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	72	1352	0	-	-	0.0	-	182	172	-	23691	95%	3%	3%
OLA079	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	36	1382	0	-	-	0.0	-	182	175	-	23691	95%	3%	3%
OLA080	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	77	83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	31	1406	0	-	-	0.0	-	182	174	-	23691	95%	3%	3%
OLA081	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	1427	0	-	-	0.0	-	182	175	-	23691	95%	3%	3%
OLA082	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	79	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	1767	0	-	-	0.0	-	182	181	-	23691	95%	3%	3%
OLA083	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	76	82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	1812	0	76	82	2.0	13	182	182	182	23691	95%	3%	3%
OLA084	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	71	76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	1866	0	71	76	1.6	18	182	183	182	23691	95%	3%	3%
OLA085	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	54	59	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	34	1965	0	54	59	2.6	8	182	182	181	23691	95%	3%	3%
OLA086	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	77	3260	0	89	90	2.0	19	182	193	194	23691	95%	3%	3%
OLA087	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	3299	0	89	90	2.0	55	182	194	194	23691	95%	3%	3%
OLA088	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	84	3323	0	89	90	6.0	21	182	194	194	23691	95%	3%	3%
OLA089	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	3552	0	-	-	0.0	-	182	205	-	23691	95%	3%	3%
OLA090	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	88	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	81	3575	0	-	-	0.0	-	182	205	-	23691	95%	3%	3%
OLA091	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	3953	0	-	-	0.0	-	182	203	-	23691	95%	3%	3%
OLA092	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	4099	0	-	-	0.0	-	182	203	-	23691	95%	3%	3%
OLA093	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	4197	0	89	90	1.7	17	182	202	201	23691	95%	3%	3%
OLA094	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	76	79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	4369	0	-	-	0.0	-	182	202	-	23691	95%	3%	3%
OLA095	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	68	71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	73	4439	0	-	-	0.0	-	182	202	-	23691	95%	3%	3%
OLA096	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	91	4439	0	-	-	0.0	-	182	202	-	23691	95%	3%	3%
OLA097	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	60	63	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	33	4494	0	60	63	1.8	5	182	202	201	23691	95%	3%	3%
OLA098	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	59	62	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	4538	0	59	62	1.8	4	182	202	202	23691	95%	3%	3%
OLA099	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	59	62	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	47	4665	0	-	-	0.0	-	182	201	-	23691	95%	3%	3%
OLA100	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	5086	0	-	-	0.0	-	182	202	-	23691	95%	3%	3%
OLA101	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	5154	0	-	-	0.0	-	182	201	-	23691	95%	3%	3%
OLA102	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	69	5345	0	-	-	0.0	-	182	198	-	23691	95%	3%	3%
OLA103	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	-84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	62	5516	0	-	-	0.0	-	182	197	-	23691	95%	3%	3%
OLA104	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-78	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	91	5714	0	-	-	0.0	-	182	196	-	23691	95%	3%	3%

Start of Construction - 2030 S02_SBc Kennedy Road 16th Avenue Highway 7

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	174	2405	0	-	-	0.0	-	182	209	-	23691	95%	3%	3%
OLA002	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	57	2349	0	-	-	0.0	-	182	207	-	23691	95%	3%	3%
OLA003	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	78	82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	33	2340	0	78	82	2.0	4	182	207	206	23691	95%	3%	3%
OLA004	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	77	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	55	2250	0	-	-	0.0	-	182	207	-	23691	95%	3%	3%
OLA005	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	78	82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	2205	0	78	82	2.2	5	182	208	207	23691	95%	3%	3%
OLA006	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	2161	0	-	-	0.0	-	182	207	-	23691	95%	3%	3%
OLA007	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	77	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	2174	0	77	81	2.1	5	182	208	207	23691	95%	3%	3%
OLA008	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	2091	0	-	-	0.0	-	182	207	-	23691	95%	3%	3%
OLA009	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	77	82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	22	2098	0	77	82	2.1	5	182	207	207	23691	95%	3%	3%
OLA010	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	49	1989	0	-	-	0.0	-	182	206	-	23691	95%	3%	3%
OLA011	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	75	80	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	2011	0	-	-	0.0	-	182	206	-	23691	95%	3%	3%
OLA012	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	1902	0	-	-	0.0	-	182	204	-	23691	95%	3%	3%
OLA013	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	56	1842	0	-	-	0.0	-	182	204	-	23691	95%	3%	3%
OLA014	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	76	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	19	1840	0	76	81	2.0	4	182	203	203	23691	95%	3%	3%
OLA015	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	77	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	24	1763	0	77	81	2.0	6	182	202	202	23691	95%	3%	3%
OLA016	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	75	80	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	65	1727	0	-	-	0.0	-	182	200	-	23691	95%	3%	3%
OLA017	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	38	1469	0	-	-	0.0	-	182	196	-	23691	95%	3%	3%
OLA018	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	1433	0	-	-	0.0	-	182	196	-	23691	95%	3%	3%
OLA019	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	1390	0	-	-	0.0	-	182	197	-	23691	95%	3%	3%
OLA020	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	1300	0	-	-	0.0	-	182	197	-	23691	95%	3%	3%
OLA021	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	69	1250	0	-	-	0.0	-	182	200	-	23691	95%	3%	3%
OLA022	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	1109	0	-	-	0.0	-	182	200	-	23691	95%	3%	3%
OLA023	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	67	73	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	73	1109	0	-	-	0.0	-	182	199	-	23691	95%	3%	3%
OLA024	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	68	74	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	924	0	-	-	0.0	-	182	193	-	23691	95%	3%	3%
OLA025	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	37	840	0	-	-	0.0	-	182	191	-	23691	95%	3%	3%
OLA026	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	48	52	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	53	524	0	-	-	0.0	-	182	183	-	23691	95%	3%	3%
OLA027	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	49	432	0	-	-	0.0	-	182	185	-	23691	95%	3%	3%
OLA028	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	48	51	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	450	0	-	-	0.0	-	182	182	-	23691	95%	3%	3%
OLA029	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	55	377	0	-	-	0.0	-	182	185	-	23691	95%	3%	3%
OLA030	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	51	340	0	-	-	0.0	-	182	184	-	23691	95%	3%	3%
OLA031	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	57	57	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	398	0	-	-	0.0	-	182	182	-	23691	95%	3%	3%
OLA032	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	53	57	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	65	349	0	-	-	0.0	-	182	181	-	23691	95%	3%	3%
OLA033	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	266	0	-	-	0.0	-	182	182	-	23691	95%	3%	3%
OLA034	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	61	64	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	312	0	61	64	6.0	3	182	182	182	23691	95%	3%	3%
OLA035	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	65	73	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	240	0	-	-	0.0	-	182	182	-	23691	95%	3%	3%
OLA036	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	204	0	-	-	0.0	-	182	182	-	23691	95%	3%	3%
OLA037	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	69	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	186	0	-	-	0.0	-	182	182	-	23691	95%	3%	3%
OLA038	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-85	-85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	140	0	-	-	0.0	-	182	182	-	23691	95%	3%	3%
OLA039	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	66	85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	139	0	-	-	0.0	-	182	181	-	23691	95%	3%	3%
OLA040	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-75	-70	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	83	0	-	-	0.0	-	182	183	-	23691	95%	3%	3%
OLA041	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	63	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	36	79	0	-	-	0.0	-	182	181	-	23691	95%	3%	3%
OLA042	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	52	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	52	0	52	90	6.0	3	182	182	182	23691	95%	3%	3%
OLA043	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-66	-26	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	37	41	0	-45	-26	1.8	12	182	183	182	23691	95%	3%	3%
OLA044	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-28	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	30	0	-28	5	1.8	9	182	182	182	23691	95%	3%	3%
OLA045	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-69	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	30	0	-	-	0.0	-	183	183	-	23691	95%	3%	3%
OLA046	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-64	58	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	39	0	-64	-45	6.0	3	183	185	185	23691	95%	3%	3%
OLA047	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-85	84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	38	0	-85	-40	6.0	11	183	183	183	23691	95%	3%	3%
OLA048	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-52	64	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	42	0	-52	-18	2.0	10	184	184	184	23691	95%	3%	3%
OLA049	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-36	60	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	48	0	-36	59	2.0	25	184	184	185	23691	95%	3%	3%
OLA050	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	60	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	26	0	-	-	0.0	-	184	185	-	23691	95%	3%	3%
OLA051	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	27	62	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	37	0	27	62	2.0	11	184	184	185	23691	95%	3%	3%
OLA052	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-31	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	36	0	-	-	0.0	-	184	185	-	23691	95%	3%	3%
OLA053	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	55	58	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	79	0	55	58	2.0	19	184	184	185	23691	95%	3%	3%
OLA054	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	53	63	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	122	0	53	63	2.0	12	184	184	186	23691	95%	3%	3%
OLA055	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	36	96	0	-	-	0.0	-	184	185	-	23691	95%	3%	3%
OLA056	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	55	69	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	172	0	55	69	2.0	13	184	185	186	23691	95%	3%	3%
OLA057	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	37	151	0	-	-	0.0	-	184	185	-	23691	95%	3%	3%
OLA058	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	59	75	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	32	223	0	59	75	2.0	10	184	185	186	23691	95%	3%	3%

OLA059	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	216	0	-	-	0.0	-	184	185	-	23691	95%	3%	3%
OLA060	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	62	77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	37	278	0	62	77	1.8	15	184	186	186	23691	95%	3%	3%
OLA061	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	35	293	0	-	-	0.0	-	184	184	-	23691	95%	3%	3%
OLA062	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	65	80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	30	332	0	65	80	1.8	7	184	186	185	23691	95%	3%	3%
OLA063	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	17	358	0	-	-	0.0	-	184	185	-	23691	95%	3%	3%
OLA064	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	66	79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	52	385	0	66	79	1.8	6	184	186	185	23691	95%	3%	3%
OLA065	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	436	0	-	-	0.0	-	184	183	-	23691	95%	3%	3%
OLA066	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	490	0	-	-	0.0	-	184	183	-	23691	95%	3%	3%
OLA067	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	71	82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	563	0	71	82	1.8	14	184	181	182	23691	95%	3%	3%
OLA068	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	576	0	-90	-89	6.0	3	184	180	180	23691	95%	3%	3%
OLA069	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	73	83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	59	637	0	73	83	1.8	31	184	181	180	23691	95%	3%	3%
OLA070	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	75	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	683	0	75	85	1.8	17	184	179	178	23691	95%	3%	3%
OLA071	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	669	0	-	-	0.0	-	184	178	-	23691	95%	3%	3%
OLA072	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	737	0	-	-	0.0	-	184	177	-	23691	95%	3%	3%
OLA073	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	76	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	768	0	76	85	1.9	10	184	177	177	23691	95%	3%	3%
OLA074	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	819	0	-	-	0.0	-	184	176	-	23691	95%	3%	3%
OLA075	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	76	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	68	865	0	-	-	0.0	-	184	175	-	23691	95%	3%	3%
OLA076	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	71	79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	78	930	0	-	-	0.0	-	184	175	-	23691	95%	3%	3%
OLA077	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	1117	0	-	-	0.0	-	184	174	-	23691	95%	3%	3%
OLA078	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	70	78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	72	1151	0	-	-	0.0	-	184	172	-	23691	95%	3%	3%
OLA079	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	36	1197	0	-90	-86	6.0	3	184	175	175	23691	95%	3%	3%
OLA080	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	83	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	31	1211	0	-	-	0.0	-	184	174	-	23691	95%	3%	3%
OLA081	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	1244	0	-	-	0.0	-	184	175	-	23691	95%	3%	3%
OLA082	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	85	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	1571	0	-	-	0.0	-	184	181	-	23691	95%	3%	3%
OLA083	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	82	88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	1617	0	82	88	2.0	13	184	182	182	23691	95%	3%	3%
OLA084	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	76	82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	1672	0	76	82	1.6	18	184	183	182	23691	95%	3%	3%
OLA085	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	59	65	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	34	1776	0	59	65	2.6	8	184	182	181	23691	95%	3%	3%
OLA086	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	77	3104	0	-	-	0.0	-	184	193	-	23691	95%	3%	3%
OLA087	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	3144	0	-	-	0.0	-	184	194	-	23691	95%	3%	3%
OLA088	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	84	3166	0	-	-	0.0	-	184	194	-	23691	95%	3%	3%
OLA089	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	3396	0	-	-	0.0	-	184	205	-	23691	95%	3%	3%
OLA090	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	81	3417	0	-	-	0.0	-	184	205	-	23691	95%	3%	3%
OLA091	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	3795	0	-	-	0.0	-	184	203	-	23691	95%	3%	3%
OLA092	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	3941	0	-	-	0.0	-	184	203	-	23691	95%	3%	3%
OLA093	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	4038	0	-	-	0.0	-	184	202	-	23691	95%	3%	3%
OLA094	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	79	82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	4210	0	-	-	0.0	-	184	202	-	23691	95%	3%	3%
OLA095	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	71	74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	73	4281	0	-	-	0.0	-	184	202	-	23691	95%	3%	3%
OLA096	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	91	4288	0	-	-	0.0	-	184	202	-	23691	95%	3%	3%
OLA097	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	63	66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	33	4338	0	63	66	1.8	5	184	202	201	23691	95%	3%	3%
OLA098	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	62	65	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	4382	0	62	65	1.8	4	184	202	202	23691	95%	3%	3%
OLA099	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	62	65	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	47	4513	0	-	-	0.0	-	184	201	-	23691	95%	3%	3%
OLA100	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	4946	0	-	-	0.0	-	184	202	-	23691	95%	3%	3%
OLA101	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	5016	0	-	-	0.0	-	184	201	-	23691	95%	3%	3%
OLA102	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	69	5211	0	-	-	0.0	-	184	198	-	23691	95%	3%	3%
OLA103	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-84	-81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	62	5381	0	-	-	0.0	-	184	197	-	23691	95%	3%	3%
OLA104	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	91	5579	0	-	-	0.0	-	184	196	-	23691	95%	3%	3%

Start of Construction - 2030 S02_SBd Kennedy Road 16th Avenue Highway 7

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	174	2593	0	-	-	0.0	-	184	209	-	23691	95%	3%	3%
OLA002	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	57	2545	0	-	-	0.0	-	184	207	-	23691	95%	3%	3%
OLA003	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	78	79	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	33	2543	0	78	79	2.0	4	184	207	206	23691	95%	3%	3%
OLA004	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	77	78	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	55	2456	0	-	-	0.0	-	184	207	-	23691	95%	3%	3%
OLA005	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	78	79	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	2409	0	78	79	2.2	5	184	208	207	23691	95%	3%	3%
OLA006	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	2361	0	-	-	0.0	-	184	207	-	23691	95%	3%	3%
OLA007	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	77	78	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	2379	0	77	78	2.1	5	184	208	207	23691	95%	3%	3%
OLA008	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	2292	0	-	-	0.0	-	184	207	-	23691	95%	3%	3%
OLA009	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	77	79	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	22	2303	0	77	79	2.1	5	184	207	207	23691	95%	3%	3%
OLA010	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	49	2191	0	-	-	0.0	-	184	206	-	23691	95%	3%	3%
OLA011	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	75	77	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	2221	0	-	-	0.0	-	184	206	-	23691	95%	3%	3%
OLA012	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	2105	0	-	-	0.0	-	184	204	-	23691	95%	3%	3%
OLA013	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	56	2045	0	-	-	0.0	-	184	204	-	23691	95%	3%	3%
OLA014	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	76	78	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	19	2050	0	76	78	2.0	4	184	203	203	23691	95%	3%	3%
OLA015	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	77	79	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	24	1974	0	77	79	2.0	6	184	202	202	23691	95%	3%	3%
OLA016	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	75	78	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	65	1941	0	-	-	0.0	-	184	200	-	23691	95%	3%	3%
OLA017	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	38	1679	0	-	-	0.0	-	184	196	-	23691	95%	3%	3%
OLA018	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	1644	0	-	-	0.0	-	184	196	-	23691	95%	3%	3%
OLA019	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	1600	0	-	-	0.0	-	184	197	-	23691	95%	3%	3%
OLA020	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	1514	0	-	-	0.0	-	184	197	-	23691	95%	3%	3%
OLA021	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	69	1462	0	-	-	0.0	-	184	200	-	23691	95%	3%	3%
OLA022	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	1326	0	-	-	0.0	-	184	200	-	23691	95%	3%	3%
OLA023	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	67	73	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	73	1340	0	-	-	0.0	-	184	199	-	23691	95%	3%	3%
OLA024	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	68	75	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	1158	0	-	-	0.0	-	184	193	-	23691	95%	3%	3%
OLA025	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	37	1069	0	-	-	0.0	-	184	191	-	23691	95%	3%	3%
OLA026	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	48	66	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	53	783	0	55	66	6.0	3	184	183	183	23691	95%	3%	3%
OLA027	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	49	686	0	-	-	0.0	-	184	185	-	23691	95%	3%	3%
OLA028	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	48	68	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	711	0	-	-	0.0	-	184	182	-	23691	95%	3%	3%
OLA029	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	55	634	0	-	-	0.0	-	184	185	-	23691	95%	3%	3%
OLA030	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	51	599	0	-	-	0.0	-	184	184	-	23691	95%	3%	3%
OLA031	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	57	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	660	0	-	-	0.0	-	184	182	-	23691	95%	3%	3%
OLA032	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	57	85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	65	610	0	-	-	0.0	-	184	181	-	23691	95%	3%	3%
OLA033	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-80	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	529	0	-	-	0.0	-	184	182	-	23691	95%	3%	3%
OLA034	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	64	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	574	0	64	90	6.0	3	184	182	182	23691	95%	3%	3%
OLA035	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	73	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	498	0	-	-	0.0	-	184	182	-	23691	95%	3%	3%
OLA036	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-68	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	467	0	-	-	0.0	-	184	182	-	23691	95%	3%	3%
OLA037	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	442	0	-	-	0.0	-	184	182	-	23691	95%	3%	3%
OLA038	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-85	-57	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	402	0	-	-	0.0	-	184	182	-	23691	95%	3%	3%
OLA039	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	85	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	390	0	-	-	0.0	-	184	181	-	23691	95%	3%	3%
OLA040	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-75	-47	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	345	0	-	-	0.0	-	184	183	-	23691	95%	3%	3%
OLA041	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	36	325	0	-	-	0.0	-	184	181	-	23691	95%	3%	3%
OLA042	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	296	0	-	-	0.0	-	184	182	-	23691	95%	3%	3%
OLA043	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-66	-39	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	37	294	0	-45	-39	1.8	12	184	183	182	23691	95%	3%	3%
OLA044	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	240	0	-	-	0.0	-	184	182	-	23691	95%	3%	3%
OLA045	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	195	0	-	-	0.0	-	184	183	-	23691	95%	3%	3%
OLA046	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-64	-43	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	210	0	-64	-45	6.0	3	184	185	185	23691	95%	3%	3%
OLA047	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	84	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	127	0	-	-	0.0	-	184	183	-	23691	95%	3%	3%
OLA048	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-58	-52	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	79	0	-58	-52	2.0	10	184	184	184	23691	95%	3%	3%
OLA049	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-63	-36	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	60	0	-63	-36	2.0	25	184	184	185	23691	95%	3%	3%
OLA050	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	60	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	50	0	-	-	0.0	-	184	185	-	23691	95%	3%	3%
OLA051	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-69	27	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	33	0	-69	27	2.0	11	184	184	185	23691	95%	3%	3%
OLA052	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-31	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	31	0	-	-	0.0	-	184	185	-	23691	95%	3%	3%
OLA053	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-75	55	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	41	0	-75	55	2.0	19	185	184	185	23691	95%	3%	3%
OLA054	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	63	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	35	0	-86	63	2.0	12	185	184	186	23691	95%	3%	3%
OLA055	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-81	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	36	36	0	-	-	0.0	-	185	185	-	23691	95%	3%	3%
OLA056	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	69	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	35	0	-88	69	2.0	13	185	185	186	23691	95%	3%	3%
OLA057	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	37	37	0	-	-	0.0	-	185	185	-	23691	95%	3%	3%
OLA058	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	75	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	32	32	0	-87	75	2.0	10	185	185	186	23691	95%	3%	3%

OLA059	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-88	87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	33	0	-	-	0.0	-	185	185	-	23691	95%	3%	3%
OLA060	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	37	37	0	-86	77	1.8	15	185	186	186	23691	95%	3%	3%
OLA061	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-88	86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	35	35	0	-	-	0.0	-	185	184	-	23691	95%	3%	3%
OLA062	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	30	30	0	-87	80	1.8	7	185	186	185	23691	95%	3%	3%
OLA063	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	17	17	0	-	-	0.0	-	185	185	-	23691	95%	3%	3%
OLA064	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-83	79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	52	52	0	-83	79	1.8	6	184	186	185	23691	95%	3%	3%
OLA065	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	22	0	-	-	0.0	-	184	183	-	23691	95%	3%	3%
OLA066	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	33	0	25	84	6.0	3	183	183	183	23691	95%	3%	3%
OLA067	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	58	0	-77	82	1.8	14	182	181	182	23691	95%	3%	3%
OLA068	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	29	0	-89	-35	6.0	3	181	180	180	23691	95%	3%	3%
OLA069	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	59	59	0	-73	83	1.8	31	179	181	180	23691	95%	3%	3%
OLA070	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	45	0	-73	85	1.8	17	178	179	178	23691	95%	3%	3%
OLA071	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	28	0	-	-	0.0	-	178	178	-	23691	95%	3%	3%
OLA072	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	31	0	-	-	0.0	-	176	177	-	23691	95%	3%	3%
OLA073	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-56	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	42	0	-56	85	1.9	10	176	177	177	23691	95%	3%	3%
OLA074	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	13	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	42	0	-	-	0.0	-	176	176	-	23691	95%	3%	3%
OLA075	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	26	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	68	71	0	-	-	0.0	-	176	175	-	23691	95%	3%	3%
OLA076	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	53	79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	78	112	0	-	-	0.0	-	176	175	-	23691	95%	3%	3%
OLA077	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	309	0	-	-	0.0	-	176	174	-	23691	95%	3%	3%
OLA078	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	78	84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	72	323	0	-	-	0.0	-	176	172	-	23691	95%	3%	3%
OLA079	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	36	390	0	-86	-70	6.0	3	176	175	175	23691	95%	3%	3%
OLA080	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	31	389	0	-	-	0.0	-	176	174	-	23691	95%	3%	3%
OLA081	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-83	-67	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	440	0	-	-	0.0	-	176	175	-	23691	95%	3%	3%
OLA082	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	742	0	-	-	0.0	-	176	181	-	23691	95%	3%	3%
OLA083	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	88	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	789	0	88	90	2.0	13	176	182	182	23691	95%	3%	3%
OLA084	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	82	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	844	0	82	85	1.6	18	176	183	182	23691	95%	3%	3%
OLA085	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	65	69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	34	951	0	65	69	2.6	8	176	182	181	23691	95%	3%	3%
OLA086	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	77	2306	0	-	-	0.0	-	176	193	-	23691	95%	3%	3%
OLA087	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	2347	0	-	-	0.0	-	176	194	-	23691	95%	3%	3%
OLA088	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	84	2367	0	-	-	0.0	-	176	194	-	23691	95%	3%	3%
OLA089	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	2596	0	-	-	0.0	-	176	205	-	23691	95%	3%	3%
OLA090	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	81	2614	0	-	-	0.0	-	176	205	-	23691	95%	3%	3%
OLA091	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	2991	0	-	-	0.0	-	176	203	-	23691	95%	3%	3%
OLA092	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	3137	0	-	-	0.0	-	176	203	-	23691	95%	3%	3%
OLA093	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	3233	0	-	-	0.0	-	176	202	-	23691	95%	3%	3%
OLA094	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	82	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	3404	0	-	-	0.0	-	176	202	-	23691	95%	3%	3%
OLA095	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	74	77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	73	3474	0	-	-	0.0	-	176	202	-	23691	95%	3%	3%
OLA096	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	91	3492	0	-	-	0.0	-	176	202	-	23691	95%	3%	3%
OLA097	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	66	69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	33	3535	0	66	69	1.8	5	176	202	201	23691	95%	3%	3%
OLA098	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	65	68	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	3579	0	65	68	1.8	4	176	202	202	23691	95%	3%	3%
OLA099	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	65	68	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	47	3713	0	-	-	0.0	-	176	201	-	23691	95%	3%	3%
OLA100	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	4161	0	-	-	0.0	-	176	202	-	23691	95%	3%	3%
OLA101	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	4232	0	-	-	0.0	-	176	201	-	23691	95%	3%	3%
OLA102	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	69	4433	0	-	-	0.0	-	176	198	-	23691	95%	3%	3%
OLA103	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	62	4602	0	-	-	0.0	-	176	197	-	23691	95%	3%	3%
OLA104	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	91	4798	0	-	-	0.0	-	176	196	-	23691	95%	3%	3%

Start of Construction - 2030 S02_SBe Kennedy Road 16th Avenue Highway 7

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	174	3424	0	-	-	0.0	-	176	209	-	23691	95%	3%	3%
OLA002	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	57	3376	0	-	-	0.0	-	176	207	-	23691	95%	3%	3%
OLA003	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	79	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	33	3372	0	79	81	2.0	4	176	207	206	23691	95%	3%	3%
OLA004	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	78	80	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	55	3284	0	-	-	0.0	-	176	207	-	23691	95%	3%	3%
OLA005	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	79	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	3238	0	79	81	2.2	5	176	208	207	23691	95%	3%	3%
OLA006	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	3191	0	-	-	0.0	-	176	207	-	23691	95%	3%	3%
OLA007	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	78	80	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	3208	0	78	80	2.1	5	176	208	207	23691	95%	3%	3%
OLA008	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	3121	0	-	-	0.0	-	176	207	-	23691	95%	3%	3%
OLA009	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	79	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	22	3132	0	79	81	2.1	5	176	207	207	23691	95%	3%	3%
OLA010	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	49	3020	0	-	-	0.0	-	176	206	-	23691	95%	3%	3%
OLA011	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	77	80	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	3048	0	-	-	0.0	-	176	206	-	23691	95%	3%	3%
OLA012	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	2934	0	-	-	0.0	-	176	204	-	23691	95%	3%	3%
OLA013	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	56	2874	0	-	-	0.0	-	176	204	-	23691	95%	3%	3%
OLA014	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	78	80	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	19	2876	0	78	80	2.0	4	176	203	203	23691	95%	3%	3%
OLA015	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	79	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	24	2800	0	79	81	2.0	6	176	202	202	23691	95%	3%	3%
OLA016	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	78	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	65	2765	0	-	-	0.0	-	176	200	-	23691	95%	3%	3%
OLA017	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	38	2505	0	-	-	0.0	-	176	196	-	23691	95%	3%	3%
OLA018	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	2470	0	-	-	0.0	-	176	196	-	23691	95%	3%	3%
OLA019	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	2426	0	-	-	0.0	-	176	197	-	23691	95%	3%	3%
OLA020	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	2338	0	-	-	0.0	-	176	197	-	23691	95%	3%	3%
OLA021	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	69	2287	0	-	-	0.0	-	176	200	-	23691	95%	3%	3%
OLA022	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	2148	0	-	-	0.0	-	176	200	-	23691	95%	3%	3%
OLA023	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	73	77	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	73	2151	0	-	-	0.0	-	176	199	-	23691	95%	3%	3%
OLA024	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	75	80	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	1965	0	-	-	0.0	-	176	193	-	23691	95%	3%	3%
OLA025	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	37	1882	0	-	-	0.0	-	176	191	-	23691	95%	3%	3%
OLA026	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	66	72	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	53	1543	0	66	72	6.0	3	176	183	183	23691	95%	3%	3%
OLA027	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	49	1465	0	-	-	0.0	-	176	185	-	23691	95%	3%	3%
OLA028	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	68	74	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	1463	0	-	-	0.0	-	176	182	-	23691	95%	3%	3%
OLA029	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	55	1406	0	-	-	0.0	-	176	185	-	23691	95%	3%	3%
OLA030	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	51	1366	0	-	-	0.0	-	176	184	-	23691	95%	3%	3%
OLA031	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	1395	0	-	-	0.0	-	176	182	-	23691	95%	3%	3%
OLA032	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	85	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	65	1324	0	-	-	0.0	-	176	181	-	23691	95%	3%	3%
OLA033	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-80	-73	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	1283	0	-	-	0.0	-	176	182	-	23691	95%	3%	3%
OLA034	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	1299	0	-	-	0.0	-	176	182	-	23691	95%	3%	3%
OLA035	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	1217	0	-	-	0.0	-	176	182	-	23691	95%	3%	3%
OLA036	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-68	-61	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	1222	0	-	-	0.0	-	176	182	-	23691	95%	3%	3%
OLA037	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	1165	0	-	-	0.0	-	176	182	-	23691	95%	3%	3%
OLA038	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-57	-50	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	1163	0	-	-	0.0	-	176	182	-	23691	95%	3%	3%
OLA039	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	1117	0	-	-	0.0	-	176	181	-	23691	95%	3%	3%
OLA040	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-47	-40	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	1118	0	-	-	0.0	-	176	183	-	23691	95%	3%	3%
OLA041	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	36	1064	0	-	-	0.0	-	176	181	-	23691	95%	3%	3%
OLA042	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	1046	0	-	-	0.0	-	176	182	-	23691	95%	3%	3%
OLA043	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-39	-32	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	37	1082	0	-39	-32	1.8	12	176	183	182	23691	95%	3%	3%
OLA044	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	1009	0	-	-	0.0	-	176	182	-	23691	95%	3%	3%
OLA045	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	978	0	-	-	0.0	-	176	183	-	23691	95%	3%	3%
OLA046	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-43	-37	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	1023	0	-	-	0.0	-	176	185	-	23691	95%	3%	3%
OLA047	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	922	0	-	-	0.0	-	176	183	-	23691	95%	3%	3%
OLA048	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-58	-53	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	909	0	-58	-53	2.0	10	176	184	184	23691	95%	3%	3%
OLA049	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-63	-58	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	884	0	-63	-58	2.0	25	176	184	185	23691	95%	3%	3%
OLA050	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	860	0	-	-	0.0	-	176	185	-	23691	95%	3%	3%
OLA051	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-69	-64	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	826	0	-69	-64	2.0	11	176	184	185	23691	95%	3%	3%
OLA052	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	803	0	-	-	0.0	-	176	185	-	23691	95%	3%	3%
OLA053	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-75	-70	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	778	0	-75	-70	2.0	19	176	184	185	23691	95%	3%	3%
OLA054	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	-81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	724	0	-86	-81	2.0	12	176	184	186	23691	95%	3%	3%
OLA055	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	36	736	0	-	-	0.0	-	176	185	-	23691	95%	3%	3%
OLA056	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	-82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	671	0	-88	-82	2.0	13	176	185	186	23691	95%	3%	3%
OLA057	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	87	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	37	681	0	-	-	0.0	-	176	185	-	23691	95%	3%	3%
OLA058	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	-82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	32	616	0	-87	-82	2.0	10	176	185	186	23691	95%	3%	3%

OLA059	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	87	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	615	0	-	-	0.0	-	176	185	-	23691	95%	3%	3%
OLA060	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	-81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	37	561	0	-86	-81	1.8	15	176	186	186	23691	95%	3%	3%
OLA061	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	86	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	35	539	0	-	-	0.0	-	176	184	-	23691	95%	3%	3%
OLA062	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	30	504	0	-87	-81	1.8	7	176	186	185	23691	95%	3%	3%
OLA063	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	88	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	17	474	0	-	-	0.0	-	176	185	-	23691	95%	3%	3%
OLA064	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-83	-78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	52	456	0	-83	-78	1.8	6	176	186	185	23691	95%	3%	3%
OLA065	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	87	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	396	0	-	-	0.0	-	176	183	-	23691	95%	3%	3%
OLA066	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	84	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	343	0	84	90	6.0	3	176	183	183	23691	95%	3%	3%
OLA067	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	280	0	-77	-74	1.8	14	176	181	182	23691	95%	3%	3%
OLA068	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	84	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	257	0	-	-	0.0	-	176	180	-	23691	95%	3%	3%
OLA069	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	59	208	0	-73	-71	1.8	31	176	181	180	23691	95%	3%	3%
OLA070	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	158	0	-73	-71	1.8	17	176	179	178	23691	95%	3%	3%
OLA071	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	81	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	164	0	-	-	0.0	-	176	178	-	23691	95%	3%	3%
OLA072	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	73	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	98	0	-	-	0.0	-	176	177	-	23691	95%	3%	3%
OLA073	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-68	-56	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	79	0	-68	-56	1.9	10	176	177	177	23691	95%	3%	3%
OLA074	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	13	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	43	0	-	-	0.0	-	176	176	-	23691	95%	3%	3%
OLA075	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-57	26	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	68	68	0	-	-	0.0	-	176	175	-	23691	95%	3%	3%
OLA076	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-58	53	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	78	78	0	-	-	0.0	-	175	175	-	23691	95%	3%	3%
OLA077	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	21	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	25	0	-	-	0.0	-	172	174	-	23691	95%	3%	3%
OLA078	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	5	84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	72	72	0	5	50	6.0	3	172	172	172	23691	95%	3%	3%
OLA079	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-70	-55	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	36	78	0	-70	-55	6.0	3	172	175	175	23691	95%	3%	3%
OLA080	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	74	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	31	85	0	-	-	0.0	-	172	174	-	23691	95%	3%	3%
OLA081	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-67	-57	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	128	0	-	-	0.0	-	172	175	-	23691	95%	3%	3%
OLA082	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	83	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	446	0	-	-	0.0	-	172	181	-	23691	95%	3%	3%
OLA083	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	82	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	490	0	82	90	2.0	13	172	182	182	23691	95%	3%	3%
OLA084	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	77	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	544	0	77	85	1.6	18	172	183	182	23691	95%	3%	3%
OLA085	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	63	69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	34	646	0	63	69	2.6	8	172	182	181	23691	95%	3%	3%
OLA086	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	77	1992	0	-	-	0.0	-	172	193	-	23691	95%	3%	3%
OLA087	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	2032	0	-	-	0.0	-	172	194	-	23691	95%	3%	3%
OLA088	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	84	2052	0	-	-	0.0	-	172	194	-	23691	95%	3%	3%
OLA089	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	2282	0	-	-	0.0	-	172	205	-	23691	95%	3%	3%
OLA090	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	81	2300	0	-	-	0.0	-	172	205	-	23691	95%	3%	3%
OLA091	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	2678	0	-	-	0.0	-	172	203	-	23691	95%	3%	3%
OLA092	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	2823	0	-	-	0.0	-	172	203	-	23691	95%	3%	3%
OLA093	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	2920	0	-	-	0.0	-	172	202	-	23691	95%	3%	3%
OLA094	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	84	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	3090	0	-	-	0.0	-	172	202	-	23691	95%	3%	3%
OLA095	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	76	77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	73	3161	0	-	-	0.0	-	172	202	-	23691	95%	3%	3%
OLA096	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	91	3177	0	-	-	0.0	-	172	202	-	23691	95%	3%	3%
OLA097	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	69	69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	33	3221	0	69	69	1.8	5	172	202	201	23691	95%	3%	3%
OLA098	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	67	68	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	3265	0	67	68	1.8	4	172	202	202	23691	95%	3%	3%
OLA099	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	68	68	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	47	3399	0	-	-	0.0	-	172	201	-	23691	95%	3%	3%
OLA100	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	3846	0	-	-	0.0	-	172	202	-	23691	95%	3%	3%
OLA101	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	3917	0	-	-	0.0	-	172	201	-	23691	95%	3%	3%
OLA102	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	69	4118	0	-	-	0.0	-	172	198	-	23691	95%	3%	3%
OLA103	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-78	-78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	62	4288	0	-	-	0.0	-	172	197	-	23691	95%	3%	3%
OLA104	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-70	-69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	91	4483	0	-	-	0.0	-	172	196	-	23691	95%	3%	3%

Start of Construction - 2030 S02_SBf Kennedy Road 16th Avenue Highway 7

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	174	3721	0	-	-	0.0	-	172	209	-	23691	95%	3%	3%
OLA002	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	57	3670	0	-	-	0.0	-	172	207	-	23691	95%	3%	3%
OLA003	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	33	3663	0	81	81	2.0	4	172	207	206	23691	95%	3%	3%
OLA004	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	80	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	55	3574	0	-	-	0.0	-	172	207	-	23691	95%	3%	3%
OLA005	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	3528	0	81	82	2.2	5	172	208	207	23691	95%	3%	3%
OLA006	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	3483	0	-	-	0.0	-	172	207	-	23691	95%	3%	3%
OLA007	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	80	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	3497	0	80	81	2.1	5	172	208	207	23691	95%	3%	3%
OLA008	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	3413	0	-	-	0.0	-	172	207	-	23691	95%	3%	3%
OLA009	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	22	3421	0	81	81	2.1	5	172	207	207	23691	95%	3%	3%
OLA010	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	49	3312	0	-	-	0.0	-	172	206	-	23691	95%	3%	3%
OLA011	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	80	80	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	3335	0	-	-	0.0	-	172	206	-	23691	95%	3%	3%
OLA012	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	3225	0	-	-	0.0	-	172	204	-	23691	95%	3%	3%
OLA013	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	56	3165	0	-	-	0.0	-	172	204	-	23691	95%	3%	3%
OLA014	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	80	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	19	3164	0	80	81	2.0	4	172	203	203	23691	95%	3%	3%
OLA015	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	24	3087	0	81	82	2.0	6	172	202	202	23691	95%	3%	3%
OLA016	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	65	3050	0	-	-	0.0	-	172	200	-	23691	95%	3%	3%
OLA017	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	38	2792	0	-	-	0.0	-	172	196	-	23691	95%	3%	3%
OLA018	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	2757	0	-	-	0.0	-	172	196	-	23691	95%	3%	3%
OLA019	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	2714	0	-	-	0.0	-	172	197	-	23691	95%	3%	3%
OLA020	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	2624	0	-	-	0.0	-	172	197	-	23691	95%	3%	3%
OLA021	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	69	2574	0	-	-	0.0	-	172	200	-	23691	95%	3%	3%
OLA022	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	2432	0	-	-	0.0	-	172	200	-	23691	95%	3%	3%
OLA023	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	77	78	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	73	2427	0	-	-	0.0	-	172	199	-	23691	95%	3%	3%
OLA024	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	80	80	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	2241	0	-	-	0.0	-	172	193	-	23691	95%	3%	3%
OLA025	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	37	2161	0	-	-	0.0	-	172	191	-	23691	95%	3%	3%
OLA026	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	72	74	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	53	1804	0	72	74	6.0	3	172	183	183	23691	95%	3%	3%
OLA027	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	49	1735	0	-	-	0.0	-	172	185	-	23691	95%	3%	3%
OLA028	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	74	76	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	1723	0	-	-	0.0	-	172	182	-	23691	95%	3%	3%
OLA029	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	55	1675	0	-	-	0.0	-	172	185	-	23691	95%	3%	3%
OLA030	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	51	1633	0	-	-	0.0	-	172	184	-	23691	95%	3%	3%
OLA031	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	88	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	1651	0	-	-	0.0	-	172	182	-	23691	95%	3%	3%
OLA032	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	65	1578	0	-	-	0.0	-	172	181	-	23691	95%	3%	3%
OLA033	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-73	-72	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	1550	0	-	-	0.0	-	172	182	-	23691	95%	3%	3%
OLA034	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	1557	0	-	-	0.0	-	172	182	-	23691	95%	3%	3%
OLA035	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	1476	0	-	-	0.0	-	172	182	-	23691	95%	3%	3%
OLA036	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-61	-60	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	1490	0	-	-	0.0	-	172	182	-	23691	95%	3%	3%
OLA037	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	1428	0	-	-	0.0	-	172	182	-	23691	95%	3%	3%
OLA038	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-50	-49	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	1436	0	-	-	0.0	-	172	182	-	23691	95%	3%	3%
OLA039	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	1383	0	-	-	0.0	-	172	181	-	23691	95%	3%	3%
OLA040	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-40	-39	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	1395	0	-	-	0.0	-	172	183	-	23691	95%	3%	3%
OLA041	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	36	1336	0	-	-	0.0	-	172	181	-	23691	95%	3%	3%
OLA042	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	1321	0	-	-	0.0	-	172	182	-	23691	95%	3%	3%
OLA043	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-32	-31	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	37	1365	0	-32	-31	1.8	12	172	183	182	23691	95%	3%	3%
OLA044	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	1290	0	-	-	0.0	-	172	182	-	23691	95%	3%	3%
OLA045	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	1263	0	-	-	0.0	-	172	183	-	23691	95%	3%	3%
OLA046	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-37	-36	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	1315	0	-	-	0.0	-	172	185	-	23691	95%	3%	3%
OLA047	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	1212	0	-	-	0.0	-	172	183	-	23691	95%	3%	3%
OLA048	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-53	-53	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	1210	0	-53	-53	2.0	10	172	184	184	23691	95%	3%	3%
OLA049	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-59	-58	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	1187	0	-59	-58	2.0	25	172	184	185	23691	95%	3%	3%
OLA050	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	1156	0	-	-	0.0	-	172	185	-	23691	95%	3%	3%
OLA051	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-65	-64	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	1130	0	-65	-64	2.0	11	172	184	185	23691	95%	3%	3%
OLA052	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	1102	0	-	-	0.0	-	172	185	-	23691	95%	3%	3%
OLA053	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-71	-70	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	1084	0	-71	-70	2.0	19	172	184	185	23691	95%	3%	3%
OLA054	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-82	-81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	1031	0	-82	-81	2.0	12	172	184	186	23691	95%	3%	3%
OLA055	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	36	1036	0	-	-	0.0	-	172	185	-	23691	95%	3%	3%
OLA056	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-83	-82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	978	0	-83	-82	2.0	13	172	185	186	23691	95%	3%	3%
OLA057	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	37	981	0	-	-	0.0	-	172	185	-	23691	95%	3%	3%
OLA058	64	0.0%	2 Manual	1 Typical Asphalt or Concrete	-83	-82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	32	923	0	-83	-82	2.0	10	172	185	186	23691	95%	3%	3%

OLA059	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	916	0	-	-	0.0	-	172	185	-	23691	95%	3%	3%
OLA060	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-82	-81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	37	870	0	-82	-81	1.8	15	172	186	186	23691	95%	3%	3%
OLA061	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	35	839	0	-	-	0.0	-	172	184	-	23691	95%	3%	3%
OLA062	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-82	-81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	30	813	0	-82	-81	1.8	7	172	186	185	23691	95%	3%	3%
OLA063	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	17	776	0	-	-	0.0	-	172	185	-	23691	95%	3%	3%
OLA064	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-80	-78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	52	767	0	-80	-78	1.8	6	172	186	185	23691	95%	3%	3%
OLA065	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	698	0	-	-	0.0	-	172	183	-	23691	95%	3%	3%
OLA066	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	643	0	-	-	0.0	-	172	183	-	23691	95%	3%	3%
OLA067	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	595	0	-77	-74	1.8	14	172	181	182	23691	95%	3%	3%
OLA068	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	558	0	-	-	0.0	-	172	180	-	23691	95%	3%	3%
OLA069	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-76	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	59	523	0	-76	-71	1.8	31	172	181	180	23691	95%	3%	3%
OLA070	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-76	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	474	0	-76	-71	1.8	17	172	179	178	23691	95%	3%	3%
OLA071	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	466	0	-	-	0.0	-	172	178	-	23691	95%	3%	3%
OLA072	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	399	0	-	-	0.0	-	172	177	-	23691	95%	3%	3%
OLA073	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-68	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	392	0	-75	-68	1.9	10	172	177	177	23691	95%	3%	3%
OLA074	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	317	0	-	-	0.0	-	172	176	-	23691	95%	3%	3%
OLA075	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-69	-57	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	68	317	0	-	-	0.0	-	172	175	-	23691	95%	3%	3%
OLA076	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-74	-58	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	78	259	0	-	-	0.0	-	172	175	-	23691	95%	3%	3%
OLA077	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	21	68	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	27	0	30	68	6.0	3	172	174	174	23691	95%	3%	3%
OLA078	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	5	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	72	72	0	-81	5	6.0	3	172	172	172	23691	95%	3%	3%
OLA079	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-55	74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	36	36	0	-55	-40	6.0	3	173	175	175	23691	95%	3%	3%
OLA080	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-79	74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	31	31	0	-79	-76	1.7	30	173	174	174	23691	95%	3%	3%
OLA081	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-57	62	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	58	0	-	-	0.0	-	173	175	-	23691	95%	3%	3%
OLA082	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	76	83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	233	0	-	-	0.0	-	174	181	-	23691	95%	3%	3%
OLA083	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	77	82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	275	0	77	82	2.0	13	174	182	182	23691	95%	3%	3%
OLA084	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	73	77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	328	0	73	77	1.6	18	174	183	182	23691	95%	3%	3%
OLA085	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	63	63	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	34	428	0	63	63	2.6	8	174	182	181	23691	95%	3%	3%
OLA086	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	77	1781	0	-	-	0.0	-	174	193	-	23691	95%	3%	3%
OLA087	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	1822	0	-	-	0.0	-	174	194	-	23691	95%	3%	3%
OLA088	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	84	1841	0	-	-	0.0	-	174	194	-	23691	95%	3%	3%
OLA089	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	2071	0	-	-	0.0	-	174	205	-	23691	95%	3%	3%
OLA090	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	81	2088	0	-	-	0.0	-	174	205	-	23691	95%	3%	3%
OLA091	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	2465	0	-	-	0.0	-	174	203	-	23691	95%	3%	3%
OLA092	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	2610	0	-	-	0.0	-	174	203	-	23691	95%	3%	3%
OLA093	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	2706	0	-	-	0.0	-	174	202	-	23691	95%	3%	3%
OLA094	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	84	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	2877	0	-	-	0.0	-	174	202	-	23691	95%	3%	3%
OLA095	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	76	77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	73	2947	0	-	-	0.0	-	174	202	-	23691	95%	3%	3%
OLA096	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	91	2966	0	-	-	0.0	-	174	202	-	23691	95%	3%	3%
OLA097	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	69	69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	33	3009	0	69	69	1.8	5	174	202	201	23691	95%	3%	3%
OLA098	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	67	68	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	3052	0	67	68	1.8	4	174	202	202	23691	95%	3%	3%
OLA099	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	68	69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	47	3187	0	-	-	0.0	-	174	201	-	23691	95%	3%	3%
OLA100	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	3638	0	-	-	0.0	-	174	202	-	23691	95%	3%	3%
OLA101	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	3709	0	-	-	0.0	-	174	201	-	23691	95%	3%	3%
OLA102	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	69	3912	0	-	-	0.0	-	174	198	-	23691	95%	3%	3%
OLA103	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-78	-77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	62	4081	0	-	-	0.0	-	174	197	-	23691	95%	3%	3%
OLA104	64	0.0%	2	Manual	1	Typical Asphalt or Concrete	-69	-69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	91	4276	0	-	-	0.0	-	174	196	-	23691	95%	3%	3%

Start of Construction - 2030 S03_SBa Kennedy Road Highway 7 Highway 407

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	174	3937	0	-	-	0.0	-	174	209	-	30461	93%	3%	4%
OLA002	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	57	3885	0	-	-	0.0	-	174	207	-	30461	93%	3%	4%
OLA003	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	33	3878	0	81	82	2.0	4	174	207	206	30461	93%	3%	4%
OLA004	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	55	3789	0	-	-	0.0	-	174	207	-	30461	93%	3%	4%
OLA005	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	82	82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	3743	0	82	82	2.2	5	174	208	207	30461	93%	3%	4%
OLA006	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	3699	0	-	-	0.0	-	174	207	-	30461	93%	3%	4%
OLA007	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	3713	0	81	81	2.1	5	174	208	207	30461	93%	3%	4%
OLA008	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	3628	0	-	-	0.0	-	174	207	-	30461	93%	3%	4%
OLA009	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	22	3636	0	81	82	2.1	5	174	207	207	30461	93%	3%	4%
OLA010	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	49	3527	0	-	-	0.0	-	174	206	-	30461	93%	3%	4%
OLA011	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	80	80	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	3550	0	-	-	0.0	-	174	206	-	30461	93%	3%	4%
OLA012	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	3440	0	-	-	0.0	-	174	204	-	30461	93%	3%	4%
OLA013	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	56	3380	0	-	-	0.0	-	174	204	-	30461	93%	3%	4%
OLA014	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	19	3379	0	81	81	2.0	4	174	203	203	30461	93%	3%	4%
OLA015	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	82	82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	24	3302	0	82	82	2.0	6	174	202	202	30461	93%	3%	4%
OLA016	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	65	3264	0	-	-	0.0	-	174	200	-	30461	93%	3%	4%
OLA017	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	38	3007	0	-	-	0.0	-	174	196	-	30461	93%	3%	4%
OLA018	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	2972	0	-	-	0.0	-	174	196	-	30461	93%	3%	4%
OLA019	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	2929	0	-	-	0.0	-	174	197	-	30461	93%	3%	4%
OLA020	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	2839	0	-	-	0.0	-	174	197	-	30461	93%	3%	4%
OLA021	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	69	2789	0	-	-	0.0	-	174	200	-	30461	93%	3%	4%
OLA022	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	2647	0	-	-	0.0	-	174	200	-	30461	93%	3%	4%
OLA023	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	78	78	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	73	2640	0	-	-	0.0	-	174	199	-	30461	93%	3%	4%
OLA024	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	80	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	2454	0	-	-	0.0	-	174	193	-	30461	93%	3%	4%
OLA025	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	37	2375	0	-	-	0.0	-	174	191	-	30461	93%	3%	4%
OLA026	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	74	75	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	53	2014	0	74	75	6.0	3	174	183	183	30461	93%	3%	4%
OLA027	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	49	1947	0	-	-	0.0	-	174	185	-	30461	93%	3%	4%
OLA028	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	76	77	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	1933	0	-	-	0.0	-	174	182	-	30461	93%	3%	4%
OLA029	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	55	1887	0	-	-	0.0	-	174	185	-	30461	93%	3%	4%
OLA030	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	51	1845	0	-	-	0.0	-	174	184	-	30461	93%	3%	4%
OLA031	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	1860	0	-	-	0.0	-	174	182	-	30461	93%	3%	4%
OLA032	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	65	1786	0	-	-	0.0	-	174	181	-	30461	93%	3%	4%
OLA033	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-72	-71	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	1761	0	-	-	0.0	-	174	182	-	30461	93%	3%	4%
OLA034	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	1766	0	-	-	0.0	-	174	182	-	30461	93%	3%	4%
OLA035	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	1686	0	-	-	0.0	-	174	182	-	30461	93%	3%	4%
OLA036	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-60	-59	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	1703	0	-	-	0.0	-	174	182	-	30461	93%	3%	4%
OLA037	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	1639	0	-	-	0.0	-	174	182	-	30461	93%	3%	4%
OLA038	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-49	-48	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	1649	0	-	-	0.0	-	174	182	-	30461	93%	3%	4%
OLA039	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	1595	0	-	-	0.0	-	174	181	-	30461	93%	3%	4%
OLA040	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-39	-38	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	1609	0	-	-	0.0	-	174	183	-	30461	93%	3%	4%
OLA041	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	36	1549	0	-	-	0.0	-	174	181	-	30461	93%	3%	4%
OLA042	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	1535	0	-	-	0.0	-	174	182	-	30461	93%	3%	4%
OLA043	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-31	-31	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	37	1580	0	-31	-31	1.8	12	174	183	182	30461	93%	3%	4%
OLA044	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	1505	0	-	-	0.0	-	174	182	-	30461	93%	3%	4%
OLA045	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	1479	0	-	-	0.0	-	174	183	-	30461	93%	3%	4%
OLA046	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-36	-36	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	1530	0	-	-	0.0	-	174	185	-	30461	93%	3%	4%
OLA047	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	1428	0	-	-	0.0	-	174	183	-	30461	93%	3%	4%
OLA048	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-54	-53	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	1427	0	-54	-53	2.0	10	174	184	184	30461	93%	3%	4%
OLA049	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-60	-59	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	1403	0	-60	-59	2.0	25	174	184	185	30461	93%	3%	4%
OLA050	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	1373	0	-	-	0.0	-	174	185	-	30461	93%	3%	4%
OLA051	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-66	-65	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	1346	0	-66	-65	2.0	11	174	184	185	30461	93%	3%	4%
OLA052	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	1318	0	-	-	0.0	-	174	185	-	30461	93%	3%	4%
OLA053	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-73	-71	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	1300	0	-73	-71	2.0	19	174	184	185	30461	93%	3%	4%
OLA054	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-83	-82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	1247	0	-83	-82	2.0	12	174	184	186	30461	93%	3%	4%
OLA055	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	36	1252	0	-	-	0.0	-	174	185	-	30461	93%	3%	4%
OLA056	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-85	-83	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	1194	0	-85	-83	2.0	13	174	185	186	30461	93%	3%	4%
OLA057	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	37	1197	0	-	-	0.0	-	174	185	-	30461	93%	3%	4%
OLA058	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-85	-83	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	32	1138	0	-85	-83	2.0	10	174	185	186	30461	93%	3%	4%

OLA059	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	1132	0	-	-	0.0	-	174	185	-	30461	93%	3%	4%
OLA060	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-84	-82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	37	1085	0	-84	-82	1.8	15	174	186	186	30461	93%	3%	4%
OLA061	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	35	1055	0	-	-	0.0	-	174	184	-	30461	93%	3%	4%
OLA062	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-84	-82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	30	1027	0	-84	-82	1.8	7	174	186	185	30461	93%	3%	4%
OLA063	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	17	992	0	-	-	0.0	-	174	185	-	30461	93%	3%	4%
OLA064	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-83	-80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	52	981	0	-83	-80	1.8	6	174	186	185	30461	93%	3%	4%
OLA065	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	914	0	-	-	0.0	-	174	183	-	30461	93%	3%	4%
OLA066	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	859	0	-	-	0.0	-	174	183	-	30461	93%	3%	4%
OLA067	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	807	0	-81	-77	1.8	14	174	181	182	30461	93%	3%	4%
OLA068	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	774	0	-	-	0.0	-	174	180	-	30461	93%	3%	4%
OLA069	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-80	-76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	59	734	0	-80	-76	1.8	31	174	181	180	30461	93%	3%	4%
OLA070	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-80	-76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	685	0	-80	-76	1.8	17	174	179	178	30461	93%	3%	4%
OLA071	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	681	0	-	-	0.0	-	174	178	-	30461	93%	3%	4%
OLA072	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	613	0	-	-	0.0	-	174	177	-	30461	93%	3%	4%
OLA073	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-80	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	600	0	-80	-75	1.9	10	174	177	177	30461	93%	3%	4%
OLA074	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	531	0	-	-	0.0	-	174	176	-	30461	93%	3%	4%
OLA075	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	68	516	0	-	-	0.0	-	174	175	-	30461	93%	3%	4%
OLA076	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-83	-74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	78	452	0	-	-	0.0	-	174	175	-	30461	93%	3%	4%
OLA077	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	68	69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	233	0	68	69	6.0	3	174	174	174	30461	93%	3%	4%
OLA078	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	72	209	0	-90	-81	6.0	3	174	172	172	30461	93%	3%	4%
OLA079	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	74	83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	36	159	0	-	-	0.0	-	174	175	-	30461	93%	3%	4%
OLA080	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-88	-79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	31	139	0	-88	-79	1.7	30	174	174	174	30461	93%	3%	4%
OLA081	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	62	82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	124	0	-	-	0.0	-	174	175	-	30461	93%	3%	4%
OLA082	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-56	76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	49	0	-56	43	1.8	15	180	181	181	30461	93%	3%	4%
OLA083	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-44	77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	38	0	-44	77	2.0	13	181	182	182	30461	93%	3%	4%
OLA084	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	16	73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	43	0	16	73	1.6	18	181	183	182	30461	93%	3%	4%
OLA085	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	63	66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	34	121	0	63	66	2.6	8	181	182	181	30461	93%	3%	4%
OLA086	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	77	1494	0	-	-	0.0	-	181	193	-	30461	93%	3%	4%
OLA087	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	1535	0	-	-	0.0	-	181	194	-	30461	93%	3%	4%
OLA088	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	84	1552	0	-	-	0.0	-	181	194	-	30461	93%	3%	4%
OLA089	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	1780	0	-	-	0.0	-	181	205	-	30461	93%	3%	4%
OLA090	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	81	1796	0	-	-	0.0	-	181	205	-	30461	93%	3%	4%
OLA091	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	2171	0	-	-	0.0	-	181	203	-	30461	93%	3%	4%
OLA092	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	2315	0	-	-	0.0	-	181	203	-	30461	93%	3%	4%
OLA093	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	2411	0	-	-	0.0	-	181	202	-	30461	93%	3%	4%
OLA094	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	85	87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	2580	0	-	-	0.0	-	181	202	-	30461	93%	3%	4%
OLA095	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	77	79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	73	2650	0	-	-	0.0	-	181	202	-	30461	93%	3%	4%
OLA096	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	91	2675	0	-	-	0.0	-	181	202	-	30461	93%	3%	4%
OLA097	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	69	71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	33	2714	0	69	71	1.8	5	181	202	201	30461	93%	3%	4%
OLA098	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	68	70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	2757	0	68	70	1.8	4	181	202	202	30461	93%	3%	4%
OLA099	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	69	71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	47	2893	0	-	-	0.0	-	181	201	-	30461	93%	3%	4%
OLA100	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	3352	0	-	-	0.0	-	181	202	-	30461	93%	3%	4%
OLA101	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	3423	0	-	-	0.0	-	181	201	-	30461	93%	3%	4%
OLA102	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	69	3629	0	-	-	0.0	-	181	198	-	30461	93%	3%	4%
OLA103	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	62	3797	0	-	-	0.0	-	181	197	-	30461	93%	3%	4%
OLA104	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-69	-67	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	91	3991	0	-	-	0.0	-	181	196	-	30461	93%	3%	4%

Start of Construction - 2030 S03_SBb Kennedy Road Highway 7 Highway 407

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	174	4244	0	-	-	0.0	-	181	209	-	30461	93%	3%	4%
OLA002	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	57	4192	0	-	-	0.0	-	181	207	-	30461	93%	3%	4%
OLA003	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	82	83	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	33	4185	0	82	83	2.0	4	181	207	206	30461	93%	3%	4%
OLA004	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	55	4095	0	-	-	0.0	-	181	207	-	30461	93%	3%	4%
OLA005	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	82	83	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	4050	0	82	83	2.2	5	181	208	207	30461	93%	3%	4%
OLA006	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	4006	0	-	-	0.0	-	181	207	-	30461	93%	3%	4%
OLA007	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	4019	0	81	82	2.1	5	181	208	207	30461	93%	3%	4%
OLA008	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	3935	0	-	-	0.0	-	181	207	-	30461	93%	3%	4%
OLA009	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	82	83	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	22	3943	0	82	83	2.1	5	181	207	207	30461	93%	3%	4%
OLA010	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	49	3834	0	-	-	0.0	-	181	206	-	30461	93%	3%	4%
OLA011	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	80	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	3856	0	-	-	0.0	-	181	206	-	30461	93%	3%	4%
OLA012	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	3747	0	-	-	0.0	-	181	204	-	30461	93%	3%	4%
OLA013	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	56	3687	0	-	-	0.0	-	181	204	-	30461	93%	3%	4%
OLA014	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	19	3685	0	81	82	2.0	4	181	203	203	30461	93%	3%	4%
OLA015	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	82	83	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	24	3608	0	82	83	2.0	6	181	202	202	30461	93%	3%	4%
OLA016	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	82	83	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	65	3570	0	-	-	0.0	-	181	200	-	30461	93%	3%	4%
OLA017	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	38	3314	0	-	-	0.0	-	181	196	-	30461	93%	3%	4%
OLA018	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	3278	0	-	-	0.0	-	181	196	-	30461	93%	3%	4%
OLA019	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	3235	0	-	-	0.0	-	181	197	-	30461	93%	3%	4%
OLA020	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	3145	0	-	-	0.0	-	181	197	-	30461	93%	3%	4%
OLA021	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	69	3095	0	-	-	0.0	-	181	200	-	30461	93%	3%	4%
OLA022	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	2953	0	-	-	0.0	-	181	200	-	30461	93%	3%	4%
OLA023	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	78	80	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	73	2945	0	-	-	0.0	-	181	199	-	30461	93%	3%	4%
OLA024	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	83	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	2759	0	-	-	0.0	-	181	193	-	30461	93%	3%	4%
OLA025	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	37	2681	0	-	-	0.0	-	181	191	-	30461	93%	3%	4%
OLA026	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	75	77	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	53	2316	0	75	77	6.0	3	181	183	183	30461	93%	3%	4%
OLA027	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	49	2251	0	-	-	0.0	-	181	185	-	30461	93%	3%	4%
OLA028	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	77	80	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	2236	0	-	-	0.0	-	181	182	-	30461	93%	3%	4%
OLA029	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	55	2191	0	-	-	0.0	-	181	185	-	30461	93%	3%	4%
OLA030	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	51	2149	0	-	-	0.0	-	181	184	-	30461	93%	3%	4%
OLA031	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	2162	0	-	-	0.0	-	181	182	-	30461	93%	3%	4%
OLA032	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	65	2088	0	-	-	0.0	-	181	181	-	30461	93%	3%	4%
OLA033	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-71	-68	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	2066	0	-	-	0.0	-	181	182	-	30461	93%	3%	4%
OLA034	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	2069	0	-	-	0.0	-	181	182	-	30461	93%	3%	4%
OLA035	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	1989	0	-	-	0.0	-	181	182	-	30461	93%	3%	4%
OLA036	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-59	-56	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	2007	0	-	-	0.0	-	181	182	-	30461	93%	3%	4%
OLA037	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	1943	0	-	-	0.0	-	181	182	-	30461	93%	3%	4%
OLA038	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-48	-45	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	1954	0	-	-	0.0	-	181	182	-	30461	93%	3%	4%
OLA039	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	1899	0	-	-	0.0	-	181	181	-	30461	93%	3%	4%
OLA040	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-38	-36	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	1915	0	-	-	0.0	-	181	183	-	30461	93%	3%	4%
OLA041	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	36	1854	0	-	-	0.0	-	181	181	-	30461	93%	3%	4%
OLA042	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	1841	0	-	-	0.0	-	181	182	-	30461	93%	3%	4%
OLA043	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-31	-28	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	37	1886	0	-31	-28	1.8	12	181	183	182	30461	93%	3%	4%
OLA044	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	1811	0	-	-	0.0	-	181	182	-	30461	93%	3%	4%
OLA045	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	1786	0	-	-	0.0	-	181	183	-	30461	93%	3%	4%
OLA046	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-36	-34	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	1837	0	-	-	0.0	-	181	185	-	30461	93%	3%	4%
OLA047	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	1735	0	-	-	0.0	-	181	183	-	30461	93%	3%	4%
OLA048	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-54	-52	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	1733	0	-54	-52	2.0	10	181	184	184	30461	93%	3%	4%
OLA049	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-60	-58	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	1709	0	-60	-58	2.0	25	181	184	185	30461	93%	3%	4%
OLA050	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	1679	0	-	-	0.0	-	181	185	-	30461	93%	3%	4%
OLA051	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-66	-64	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	1652	0	-66	-64	2.0	11	181	184	185	30461	93%	3%	4%
OLA052	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	1625	0	-	-	0.0	-	181	185	-	30461	93%	3%	4%
OLA053	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-73	-71	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	1605	0	-73	-71	2.0	19	181	184	185	30461	93%	3%	4%
OLA054	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-83	-81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	1552	0	-83	-81	2.0	12	181	184	186	30461	93%	3%	4%
OLA055	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	36	1558	0	-	-	0.0	-	181	185	-	30461	93%	3%	4%
OLA056	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-85	-83	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	1498	0	-85	-83	2.0	13	181	185	186	30461	93%	3%	4%
OLA057	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	37	1503	0	-	-	0.0	-	181	185	-	30461	93%	3%	4%
OLA058	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-85	-83	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	32	1443	0	-85	-83	2.0	10	181	185	186	30461	93%	3%	4%

OLA059	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	1438	0	-	-	0.0	-	181	185	-	30461	93%	3%	4%
OLA060	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-84	-82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	37	1389	0	-84	-82	1.8	15	181	186	186	30461	93%	3%	4%
OLA061	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	35	1361	0	-	-	0.0	-	181	184	-	30461	93%	3%	4%
OLA062	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-84	-82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	30	1332	0	-84	-82	1.8	7	181	186	185	30461	93%	3%	4%
OLA063	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	17	1298	0	-	-	0.0	-	181	185	-	30461	93%	3%	4%
OLA064	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-83	-81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	52	1285	0	-83	-81	1.8	6	181	186	185	30461	93%	3%	4%
OLA065	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	1220	0	-	-	0.0	-	181	183	-	30461	93%	3%	4%
OLA066	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	1165	0	-	-	0.0	-	181	183	-	30461	93%	3%	4%
OLA067	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	1108	0	-81	-78	1.8	14	181	181	182	30461	93%	3%	4%
OLA068	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	1080	0	-	-	0.0	-	181	180	-	30461	93%	3%	4%
OLA069	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-80	-78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	59	1035	0	-80	-78	1.8	31	181	181	180	30461	93%	3%	4%
OLA070	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-80	-78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	986	0	-80	-78	1.8	17	181	179	178	30461	93%	3%	4%
OLA071	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	986	0	-	-	0.0	-	181	178	-	30461	93%	3%	4%
OLA072	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	918	0	-	-	0.0	-	181	177	-	30461	93%	3%	4%
OLA073	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-80	-77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	900	0	-80	-77	1.9	10	181	177	177	30461	93%	3%	4%
OLA074	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	836	0	-	-	0.0	-	181	176	-	30461	93%	3%	4%
OLA075	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	68	811	0	-	-	0.0	-	181	175	-	30461	93%	3%	4%
OLA076	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-83	-81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	78	745	0	-	-	0.0	-	181	175	-	30461	93%	3%	4%
OLA077	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	69	75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	540	0	69	75	6.0	3	181	174	174	30461	93%	3%	4%
OLA078	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	72	507	0	-90	-90	6.0	3	181	172	172	30461	93%	3%	4%
OLA079	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	83	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	36	463	0	-	-	0.0	-	181	175	-	30461	93%	3%	4%
OLA080	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-88	-82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	31	443	0	-88	-82	1.7	30	181	174	174	30461	93%	3%	4%
OLA081	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	82	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	421	0	-	-	0.0	-	181	175	-	30461	93%	3%	4%
OLA082	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-62	-56	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	99	0	-62	-56	1.8	15	181	181	181	30461	93%	3%	4%
OLA083	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-63	-44	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	55	0	-63	-44	2.0	13	181	182	182	30461	93%	3%	4%
OLA084	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-60	16	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	42	0	-60	16	1.6	18	181	183	182	30461	93%	3%	4%
OLA085	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-53	66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	34	34	0	-53	66	2.6	8	180	182	181	30461	93%	3%	4%
OLA086	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	77	1332	0	-	-	0.0	-	179	193	-	30461	93%	3%	4%
OLA087	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	1373	0	-	-	0.0	-	179	194	-	30461	93%	3%	4%
OLA088	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	84	1391	0	-	-	0.0	-	179	194	-	30461	93%	3%	4%
OLA089	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	1619	0	-	-	0.0	-	179	205	-	30461	93%	3%	4%
OLA090	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	81	1635	0	-	-	0.0	-	179	205	-	30461	93%	3%	4%
OLA091	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	2010	0	-	-	0.0	-	179	203	-	30461	93%	3%	4%
OLA092	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	2155	0	-	-	0.0	-	179	203	-	30461	93%	3%	4%
OLA093	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	2250	0	-	-	0.0	-	179	202	-	30461	93%	3%	4%
OLA094	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	86	87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	2420	0	-	-	0.0	-	179	202	-	30461	93%	3%	4%
OLA095	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	78	79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	73	2491	0	-	-	0.0	-	179	202	-	30461	93%	3%	4%
OLA096	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	91	2514	0	-	-	0.0	-	179	202	-	30461	93%	3%	4%
OLA097	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	71	71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	33	2553	0	71	71	1.8	5	179	202	201	30461	93%	3%	4%
OLA098	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	69	70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	2597	0	69	70	1.8	4	179	202	202	30461	93%	3%	4%
OLA099	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	70	71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	47	2733	0	-	-	0.0	-	179	201	-	30461	93%	3%	4%
OLA100	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	3190	0	-	-	0.0	-	179	202	-	30461	93%	3%	4%
OLA101	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	3261	0	-	-	0.0	-	179	201	-	30461	93%	3%	4%
OLA102	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	69	3466	0	-	-	0.0	-	179	198	-	30461	93%	3%	4%
OLA103	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	62	3635	0	-	-	0.0	-	179	197	-	30461	93%	3%	4%
OLA104	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-67	-67	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	91	3829	0	-	-	0.0	-	179	196	-	30461	93%	3%	4%

Start of Construction - 2030 S03_SBc Kennedy Road Highway 7 Highway 407

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	174	4392	0	-90	-88	2.0	7	179	209	209	30461	93%	3%	4%
OLA002	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	57	4338	0	-	-	0.0	-	179	207	-	30461	93%	3%	4%
OLA003	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	83	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	33	4329	0	83	90	2.0	4	179	207	206	30461	93%	3%	4%
OLA004	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	82	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	55	4239	0	-	-	0.0	-	179	207	-	30461	93%	3%	4%
OLA005	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	83	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	4194	0	83	90	2.2	5	179	208	207	30461	93%	3%	4%
OLA006	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	4151	0	-90	-90	2.1	6	179	207	207	30461	93%	3%	4%
OLA007	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	82	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	4163	0	82	89	2.1	5	179	208	207	30461	93%	3%	4%
OLA008	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	4080	0	-	-	0.0	-	179	207	-	30461	93%	3%	4%
OLA009	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	83	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	22	4087	0	83	90	2.1	5	179	207	207	30461	93%	3%	4%
OLA010	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	49	3979	0	-90	-90	1.9	8	179	206	206	30461	93%	3%	4%
OLA011	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	3999	0	-	-	0.0	-	179	206	-	30461	93%	3%	4%
OLA012	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	3891	0	-90	-89	2.4	7	179	204	204	30461	93%	3%	4%
OLA013	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	56	3832	0	-	-	0.0	-	179	204	-	30461	93%	3%	4%
OLA014	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	82	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	19	3829	0	82	90	2.0	4	179	203	203	30461	93%	3%	4%
OLA015	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	83	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	24	3751	0	83	90	2.0	6	179	202	202	30461	93%	3%	4%
OLA016	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	83	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	65	3712	0	-	-	0.0	-	179	200	-	30461	93%	3%	4%
OLA017	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	38	3457	0	-90	-88	1.9	7	179	196	196	30461	93%	3%	4%
OLA018	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	3422	0	-90	-88	1.9	2	179	196	196	30461	93%	3%	4%
OLA019	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	3379	0	-	-	0.0	-	179	197	-	30461	93%	3%	4%
OLA020	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	3288	0	-90	-87	2.0	8	179	197	197	30461	93%	3%	4%
OLA021	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	69	3239	0	-	-	0.0	-	179	200	-	30461	93%	3%	4%
OLA022	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	3096	0	-90	-85	9.0	3	179	200	200	30461	93%	3%	4%
OLA023	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	80	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	73	3085	0	-	-	0.0	-	179	199	-	30461	93%	3%	4%
OLA024	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	83	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	2898	0	-	-	0.0	-	179	193	-	30461	93%	3%	4%
OLA025	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	37	2822	0	-90	-86	1.8	5	179	191	192	30461	93%	3%	4%
OLA026	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	77	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	53	2452	0	77	90	6.0	3	179	183	183	30461	93%	3%	4%
OLA027	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	49	2390	0	-90	-89	2.5	26	179	185	184	30461	93%	3%	4%
OLA028	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	80	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	2371	0	-	-	0.0	-	179	182	-	30461	93%	3%	4%
OLA029	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-80	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	55	2330	0	-	-	0.0	-	179	185	-	30461	93%	3%	4%
OLA030	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	-75	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	51	2288	0	-	-	0.0	-	179	184	-	30461	93%	3%	4%
OLA031	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	2297	0	-	-	0.0	-	179	182	-	30461	93%	3%	4%
OLA032	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	65	2222	0	-	-	0.0	-	179	181	-	30461	93%	3%	4%
OLA033	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-68	-55	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	2204	0	-	-	0.0	-	179	182	-	30461	93%	3%	4%
OLA034	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	2205	0	-	-	0.0	-	179	182	-	30461	93%	3%	4%
OLA035	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	2126	0	-	-	0.0	-	179	182	-	30461	93%	3%	4%
OLA036	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-56	-43	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	2147	0	-	-	0.0	-	179	182	-	30461	93%	3%	4%
OLA037	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	2081	0	-	-	0.0	-	179	182	-	30461	93%	3%	4%
OLA038	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-45	-32	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	2095	0	-	-	0.0	-	179	182	-	30461	93%	3%	4%
OLA039	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	2039	0	-	-	0.0	-	179	181	-	30461	93%	3%	4%
OLA040	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-36	-23	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	2058	0	-	-	0.0	-	179	183	-	30461	93%	3%	4%
OLA041	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	36	1996	0	-	-	0.0	-	179	181	-	30461	93%	3%	4%
OLA042	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	1984	0	-	-	0.0	-	179	182	-	30461	93%	3%	4%
OLA043	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-28	-16	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	37	2031	0	-28	-16	1.8	12	179	183	182	30461	93%	3%	4%
OLA044	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	1956	0	-	-	0.0	-	179	182	-	30461	93%	3%	4%
OLA045	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	1932	0	-	-	0.0	-	179	183	-	30461	93%	3%	4%
OLA046	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-34	-22	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	1985	0	-	-	0.0	-	179	185	-	30461	93%	3%	4%
OLA047	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	1883	0	-	-	0.0	-	179	183	-	30461	93%	3%	4%
OLA048	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-52	-41	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	1884	0	-52	-41	2.0	10	179	184	184	30461	93%	3%	4%
OLA049	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-58	-47	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	1861	0	-58	-47	2.0	25	179	184	185	30461	93%	3%	4%
OLA050	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	1829	0	-	-	0.0	-	179	185	-	30461	93%	3%	4%
OLA051	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-64	-53	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	1804	0	-64	-53	2.0	11	179	184	185	30461	93%	3%	4%
OLA052	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	1775	0	-	-	0.0	-	179	185	-	30461	93%	3%	4%
OLA053	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-71	-60	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	1758	0	-71	-60	2.0	19	179	184	185	30461	93%	3%	4%
OLA054	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-81	-70	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	1705	0	-81	-70	2.0	12	179	184	186	30461	93%	3%	4%
OLA055	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	36	1709	0	-	-	0.0	-	179	185	-	30461	93%	3%	4%
OLA056	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-83	-72	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	1652	0	-83	-72	2.0	13	179	185	186	30461	93%	3%	4%
OLA057	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	37	1655	0	-	-	0.0	-	179	185	-	30461	93%	3%	4%
OLA058	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-83	-71	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	32	1597	0	-83	-71	2.0	10	179	185	186	30461	93%	3%	4%

OLA059	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	1589	0	-	-	0.0	-	179	185	-	30461	93%	3%	4%
OLA060	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-82	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	37	1543	0	-82	-71	1.8	15	179	186	186	30461	93%	3%	4%
OLA061	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	35	1513	0	-	-	0.0	-	179	184	-	30461	93%	3%	4%
OLA062	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-82	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	30	1486	0	-82	-70	1.8	7	179	186	185	30461	93%	3%	4%
OLA063	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	17	1451	0	-	-	0.0	-	179	185	-	30461	93%	3%	4%
OLA064	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	52	1440	0	-81	-69	1.8	6	179	186	185	30461	93%	3%	4%
OLA065	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	1372	0	-	-	0.0	-	179	183	-	30461	93%	3%	4%
OLA066	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	1317	0	-	-	0.0	-	179	183	-	30461	93%	3%	4%
OLA067	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-78	-67	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	1265	0	-78	-67	1.8	14	179	181	182	30461	93%	3%	4%
OLA068	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	1233	0	-	-	0.0	-	179	180	-	30461	93%	3%	4%
OLA069	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-78	-66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	59	1192	0	-78	-66	1.8	31	179	181	180	30461	93%	3%	4%
OLA070	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-78	-66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	1142	0	-78	-66	1.8	17	179	179	178	30461	93%	3%	4%
OLA071	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	1140	0	-	-	0.0	-	179	178	-	30461	93%	3%	4%
OLA072	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	1072	0	-	-	0.0	-	179	177	-	30461	93%	3%	4%
OLA073	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-65	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	1058	0	-77	-65	1.9	10	179	177	177	30461	93%	3%	4%
OLA074	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	990	0	-	-	0.0	-	179	176	-	30461	93%	3%	4%
OLA075	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-63	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	68	970	0	-	-	0.0	-	179	175	-	30461	93%	3%	4%
OLA076	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	78	904	0	-	-	0.0	-	179	175	-	30461	93%	3%	4%
OLA077	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	75	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	689	0	75	90	6.0	3	179	174	174	30461	93%	3%	4%
OLA078	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	72	664	0	-90	-75	6.0	3	179	172	172	30461	93%	3%	4%
OLA079	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	36	609	0	-	-	0.0	-	179	175	-	30461	93%	3%	4%
OLA080	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-82	-65	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	31	597	0	-82	-76	1.7	30	179	174	174	30461	93%	3%	4%
OLA081	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	563	0	-	-	0.0	-	179	175	-	30461	93%	3%	4%
OLA082	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-62	-55	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	260	0	-62	-55	1.8	15	179	181	181	30461	93%	3%	4%
OLA083	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-63	-58	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	214	0	-63	-58	2.0	13	179	182	182	30461	93%	3%	4%
OLA084	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-62	-60	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	167	0	-62	-60	1.6	18	179	183	182	30461	93%	3%	4%
OLA085	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-79	-53	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	34	64	0	-79	-53	2.6	8	179	182	181	30461	93%	3%	4%
OLA086	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	70	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	77	460	0	70	90	2.0	19	189	193	194	30461	93%	3%	4%
OLA087	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	74	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	492	0	74	90	2.0	55	189	194	194	30461	93%	3%	4%
OLA088	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	72	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	84	523	0	72	90	6.0	21	189	194	194	30461	93%	3%	4%
OLA089	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	79	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	735	0	-	-	0.0	-	189	205	-	30461	93%	3%	4%
OLA090	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	77	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	81	767	0	-	-	0.0	-	189	205	-	30461	93%	3%	4%
OLA091	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	84	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	1133	0	-	-	0.0	-	189	203	-	30461	93%	3%	4%
OLA092	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	85	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	1277	0	-	-	0.0	-	189	203	-	30461	93%	3%	4%
OLA093	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	85	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	1375	0	85	90	1.7	17	189	202	201	30461	93%	3%	4%
OLA094	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	72	86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	1546	0	-	-	0.0	-	189	202	-	30461	93%	3%	4%
OLA095	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	64	78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	73	1617	0	-	-	0.0	-	189	202	-	30461	93%	3%	4%
OLA096	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	91	1600	0	-	-	0.0	-	189	202	-	30461	93%	3%	4%
OLA097	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	58	71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	33	1664	0	58	71	1.8	5	189	202	201	30461	93%	3%	4%
OLA098	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	57	69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	1708	0	57	69	1.8	4	189	202	202	30461	93%	3%	4%
OLA099	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	59	70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	47	1829	0	-	-	0.0	-	189	201	-	30461	93%	3%	4%
OLA100	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	2246	0	-	-	0.0	-	189	202	-	30461	93%	3%	4%
OLA101	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	2315	0	-	-	0.0	-	189	201	-	30461	93%	3%	4%
OLA102	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	69	2511	0	-	-	0.0	-	189	198	-	30461	93%	3%	4%
OLA103	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	62	2681	0	-	-	0.0	-	189	197	-	30461	93%	3%	4%
OLA104	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-72	-67	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	91	2878	0	-	-	0.0	-	189	196	-	30461	93%	3%	4%

Start of Construction - 2030 S04_SB Kennedy Road Highway 407 14th Avenue

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	174	5231	0	-90	-88	2.0	7	189	209	209	27134	93%	4%	3%
OLA002	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	57	5163	0	-	-	0.0	-	189	207	-	27134	93%	4%	3%
OLA003	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	33	5143	0	89	90	2.0	4	189	207	206	27134	93%	4%	3%
OLA004	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	88	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	55	5049	0	-	-	0.0	-	189	207	-	27134	93%	4%	3%
OLA005	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	5007	0	89	90	2.2	5	189	208	207	27134	93%	4%	3%
OLA006	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	4973	0	-90	-90	2.1	6	189	207	207	27134	93%	4%	3%
OLA007	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	88	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	4976	0	88	89	2.1	5	189	208	207	27134	93%	4%	3%
OLA008	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	4901	0	-	-	0.0	-	189	207	-	27134	93%	4%	3%
OLA009	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	22	4900	0	89	90	2.1	5	189	207	207	27134	93%	4%	3%
OLA010	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	49	4801	0	-90	-90	1.9	8	189	206	206	27134	93%	4%	3%
OLA011	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	88	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	4806	0	-	-	0.0	-	189	206	-	27134	93%	4%	3%
OLA012	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	4712	0	-90	-89	2.4	7	189	204	204	27134	93%	4%	3%
OLA013	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	56	4653	0	-	-	0.0	-	189	204	-	27134	93%	4%	3%
OLA014	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	19	4639	0	89	90	2.0	4	189	203	203	27134	93%	4%	3%
OLA015	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	24	4560	0	-	-	0.0	-	189	202	-	27134	93%	4%	3%
OLA016	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	65	4516	0	-	-	0.0	-	189	200	-	27134	93%	4%	3%
OLA017	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	38	4274	0	-89	-88	1.9	7	189	196	196	27134	93%	4%	3%
OLA018	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	4239	0	-89	-88	1.9	2	189	196	196	27134	93%	4%	3%
OLA019	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	4199	0	-	-	0.0	-	189	197	-	27134	93%	4%	3%
OLA020	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	4104	0	-89	-87	2.0	8	189	197	197	27134	93%	4%	3%
OLA021	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	-87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	69	4060	0	-	-	0.0	-	189	200	-	27134	93%	4%	3%
OLA022	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	-85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	3913	0	-86	-85	9.0	3	189	200	200	27134	93%	4%	3%
OLA023	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	73	3881	0	-	-	0.0	-	189	199	-	27134	93%	4%	3%
OLA024	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	3698	0	-	-	0.0	-	189	193	-	27134	93%	4%	3%
OLA025	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	37	3634	0	-87	-86	1.8	5	189	191	192	27134	93%	4%	3%
OLA026	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	53	3238	0	89	90	6.0	3	189	183	183	27134	93%	4%	3%
OLA027	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	49	3197	0	-90	-89	2.5	26	189	185	184	27134	93%	4%	3%
OLA028	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	3161	0	-	-	0.0	-	189	182	-	27134	93%	4%	3%
OLA029	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-81	-80	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	55	3139	0	-	-	0.0	-	189	185	-	27134	93%	4%	3%
OLA030	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-77	-75	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	51	3097	0	-	-	0.0	-	189	184	-	27134	93%	4%	3%
OLA031	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	3084	0	-	-	0.0	-	189	182	-	27134	93%	4%	3%
OLA032	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	65	3008	0	-	-	0.0	-	189	181	-	27134	93%	4%	3%
OLA033	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-57	-55	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	3015	0	-	-	0.0	-	189	182	-	27134	93%	4%	3%
OLA034	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	2999	0	-	-	0.0	-	189	182	-	27134	93%	4%	3%
OLA035	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	2929	0	-	-	0.0	-	189	182	-	27134	93%	4%	3%
OLA036	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-45	-43	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	2966	0	-	-	0.0	-	189	182	-	27134	93%	4%	3%
OLA037	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	2893	0	-	-	0.0	-	189	182	-	27134	93%	4%	3%
OLA038	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-35	-32	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	2924	0	-	-	0.0	-	189	182	-	27134	93%	4%	3%
OLA039	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	2860	0	-	-	0.0	-	189	181	-	27134	93%	4%	3%
OLA040	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-25	-23	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	2897	0	-	-	0.0	-	189	183	-	27134	93%	4%	3%
OLA041	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	36	2830	0	-	-	0.0	-	189	181	-	27134	93%	4%	3%
OLA042	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	2824	0	-	-	0.0	-	189	182	-	27134	93%	4%	3%
OLA043	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-19	-16	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	37	2882	0	-19	-16	1.8	12	189	183	182	27134	93%	4%	3%
OLA044	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	2808	0	-	-	0.0	-	189	182	-	27134	93%	4%	3%
OLA045	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	2793	0	-	-	0.0	-	189	183	-	27134	93%	4%	3%
OLA046	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-26	-22	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	2854	0	-	-	0.0	-	189	185	-	27134	93%	4%	3%
OLA047	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	2755	0	-	-	0.0	-	189	183	-	27134	93%	4%	3%
OLA048	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-45	-41	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	2778	0	-45	-41	2.0	10	189	184	184	27134	93%	4%	3%
OLA049	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-51	-47	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	2759	0	-51	-47	2.0	25	189	184	185	27134	93%	4%	3%
OLA050	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	2715	0	-	-	0.0	-	189	185	-	27134	93%	4%	3%
OLA051	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-57	-53	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	2707	0	-57	-53	2.0	11	189	184	185	27134	93%	4%	3%
OLA052	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	2667	0	-	-	0.0	-	189	185	-	27134	93%	4%	3%
OLA053	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-64	-60	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	2667	0	-64	-60	2.0	19	189	184	185	27134	93%	4%	3%
OLA054	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-75	-70	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	2616	0	-75	-70	2.0	12	189	184	186	27134	93%	4%	3%
OLA055	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	36	2606	0	-	-	0.0	-	189	185	-	27134	93%	4%	3%
OLA056	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-76	-72	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	2566	0	-76	-72	2.0	13	189	185	186	27134	93%	4%	3%
OLA057	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	37	2553	0	-	-	0.0	-	189	185	-	27134	93%	4%	3%
OLA058	66	0.0%	2 Manual	1 Typical Asphalt or Concrete	-76	-71	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	32	2512	0	-76	-71	2.0	10	189	185	186	27134	93%	4%	3%

OLA059	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	2492	0	-	-	0.0	-	189	185	-	27134	93%	4%	3%
OLA060	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-76	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	37	2462	0	-76	-71	1.8	15	189	186	186	27134	93%	4%	3%
OLA061	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	35	2418	0	-	-	0.0	-	189	184	-	27134	93%	4%	3%
OLA062	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	30	2406	0	-75	-70	1.8	7	189	186	185	27134	93%	4%	3%
OLA063	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	17	2362	0	-	-	0.0	-	189	185	-	27134	93%	4%	3%
OLA064	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-74	-69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	52	2367	0	-74	-69	1.8	6	189	186	185	27134	93%	4%	3%
OLA065	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	2287	0	-	-	0.0	-	189	183	-	27134	93%	4%	3%
OLA066	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	2232	0	-	-	0.0	-	189	183	-	27134	93%	4%	3%
OLA067	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-67	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	2203	0	-73	-67	1.8	14	189	181	182	27134	93%	4%	3%
OLA068	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	2153	0	-	-	0.0	-	189	180	-	27134	93%	4%	3%
OLA069	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-72	-66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	59	2135	0	-72	-66	1.8	31	189	181	180	27134	93%	4%	3%
OLA070	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-72	-66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	2086	0	-72	-66	1.8	17	189	179	178	27134	93%	4%	3%
OLA071	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	2067	0	-	-	0.0	-	189	178	-	27134	93%	4%	3%
OLA072	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	2003	0	-	-	0.0	-	189	177	-	27134	93%	4%	3%
OLA073	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-72	-65	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	2006	0	-72	-65	1.9	10	189	177	177	27134	93%	4%	3%
OLA074	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	1924	0	-	-	0.0	-	189	176	-	27134	93%	4%	3%
OLA075	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-71	-63	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	68	1929	0	-	-	0.0	-	189	175	-	27134	93%	4%	3%
OLA076	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	78	1867	0	-	-	0.0	-	189	175	-	27134	93%	4%	3%
OLA077	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	87	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	1621	0	87	90	6.0	3	189	174	174	27134	93%	4%	3%
OLA078	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-84	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	72	1625	0	-84	-75	6.0	3	189	172	172	27134	93%	4%	3%
OLA079	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	36	1540	0	-	-	0.0	-	189	175	-	27134	93%	4%	3%
OLA080	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-74	-65	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	31	1551	0	-	-	0.0	-	189	174	-	27134	93%	4%	3%
OLA081	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	1489	0	-	-	0.0	-	189	175	-	27134	93%	4%	3%
OLA082	66	2.6%	2	Manual	1	Typical Asphalt or Concrete	-69	-55	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	1257	0	-69	-55	1.8	15	189	181	181	27134	93%	4%	3%
OLA083	66	2.6%	2	Manual	1	Typical Asphalt or Concrete	-72	-58	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	1212	0	-72	-58	2.0	13	189	182	182	27134	93%	4%	3%
OLA084	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-78	-62	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	1166	0	-78	-62	1.6	18	189	183	182	27134	93%	4%	3%
OLA085	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	34	1056	0	-90	-79	2.6	8	189	182	181	27134	93%	4%	3%
OLA086	66	3.8%	2	Manual	1	Typical Asphalt or Concrete	-78	70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	77	77	0	13	70	2.0	19	190	193	194	27134	93%	4%	3%
OLA087	66	3.8%	2	Manual	1	Typical Asphalt or Concrete	-80	74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	61	0	52	74	2.0	55	192	194	194	27134	93%	4%	3%
OLA088	66	3.8%	2	Manual	1	Typical Asphalt or Concrete	-74	72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	84	84	0	40	72	6.0	21	193	194	194	27134	93%	4%	3%
OLA089	66	3.8%	2	Manual	1	Typical Asphalt or Concrete	-52	79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	45	0	-52	40	3.0	3	204	205	205	27134	93%	4%	3%
OLA090	66	3.8%	2	Manual	1	Typical Asphalt or Concrete	-22	77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	81	81	0	-	-	0.0	-	204	205	-	27134	93%	4%	3%
OLA091	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	83	84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	349	0	-	-	0.0	-	204	203	-	27134	93%	4%	3%
OLA092	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	85	86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	492	0	-	-	0.0	-	204	203	-	27134	93%	4%	3%
OLA093	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	85	86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	591	0	85	86	1.7	17	204	202	201	27134	93%	4%	3%
OLA094	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	72	73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	762	0	-	-	0.0	-	204	202	-	27134	93%	4%	3%
OLA095	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	64	66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	73	832	0	-	-	0.0	-	204	202	-	27134	93%	4%	3%
OLA096	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	91	831	0	-	-	0.0	-	204	202	-	27134	93%	4%	3%
OLA097	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	58	62	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	33	883	0	58	62	1.8	5	204	202	201	27134	93%	4%	3%
OLA098	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	57	61	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	927	0	57	61	1.8	4	204	202	202	27134	93%	4%	3%
OLA099	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	59	65	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	47	1055	0	-	-	0.0	-	204	201	-	27134	93%	4%	3%
OLA100	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	1505	0	-	-	0.0	-	204	202	-	27134	93%	4%	3%
OLA101	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	1576	0	-	-	0.0	-	204	201	-	27134	93%	4%	3%
OLA102	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	69	1784	0	-	-	0.0	-	204	198	-	27134	93%	4%	3%
OLA103	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	62	1952	0	-	-	0.0	-	204	197	-	27134	93%	4%	3%
OLA104	66	0.0%	2	Manual	1	Typical Asphalt or Concrete	-72	-66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	91	2145	0	-	-	0.0	-	204	196	-	27134	93%	4%	3%

Start of Construction - 2030 S05_SBa Kennedy Road 14th Avenue Denison Street

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	174	6008	0	-90	-90	2.0	7	204	209	209	29587	93%	4%	3%
OLA002	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	57	5943	0	-	-	0.0	-	204	207	-	29587	93%	4%	3%
OLA003	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	33	5924	0	-	-	0.0	-	204	207	-	29587	93%	4%	3%
OLA004	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	88	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	55	5831	0	-	-	0.0	-	204	207	-	29587	93%	4%	3%
OLA005	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	5788	0	89	89	2.2	5	204	208	207	29587	93%	4%	3%
OLA006	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	5753	0	-	-	0.0	-	204	207	-	29587	93%	4%	3%
OLA007	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	88	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	5757	0	88	88	2.1	5	204	208	207	29587	93%	4%	3%
OLA008	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	5681	0	-	-	0.0	-	204	207	-	29587	93%	4%	3%
OLA009	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	22	5681	0	89	89	2.1	5	204	207	207	29587	93%	4%	3%
OLA010	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	49	5580	0	-	-	0.0	-	204	206	-	29587	93%	4%	3%
OLA011	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	88	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	5588	0	-	-	0.0	-	204	206	-	29587	93%	4%	3%
OLA012	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	5492	0	-	-	0.0	-	204	204	-	29587	93%	4%	3%
OLA013	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	56	5433	0	-	-	0.0	-	204	204	-	29587	93%	4%	3%
OLA014	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	19	5421	0	89	89	2.0	4	204	203	203	29587	93%	4%	3%
OLA015	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	24	5342	0	-	-	0.0	-	204	202	-	29587	93%	4%	3%
OLA016	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	65	5298	0	-	-	0.0	-	204	200	-	29587	93%	4%	3%
OLA017	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	38	5054	0	-	-	0.0	-	204	196	-	29587	93%	4%	3%
OLA018	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	5018	0	-89	-89	1.9	2	204	196	196	29587	93%	4%	3%
OLA019	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	4979	0	-	-	0.0	-	204	197	-	29587	93%	4%	3%
OLA020	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	4884	0	-	-	0.0	-	204	197	-	29587	93%	4%	3%
OLA021	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	-88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	69	4839	0	-	-	0.0	-	204	200	-	29587	93%	4%	3%
OLA022	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	4692	0	-86	-86	9.0	3	204	200	200	29587	93%	4%	3%
OLA023	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	73	4662	0	-	-	0.0	-	204	199	-	29587	93%	4%	3%
OLA024	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	4479	0	-	-	0.0	-	204	193	-	29587	93%	4%	3%
OLA025	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	-87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	37	4414	0	-87	-87	1.8	5	204	191	192	29587	93%	4%	3%
OLA026	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	53	4020	0	89	89	6.0	3	204	183	183	29587	93%	4%	3%
OLA027	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	49	3976	0	-	-	0.0	-	204	185	-	29587	93%	4%	3%
OLA028	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	3942	0	-	-	0.0	-	204	182	-	29587	93%	4%	3%
OLA029	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-82	-81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	55	3917	0	-	-	0.0	-	204	185	-	29587	93%	4%	3%
OLA030	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-77	-77	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	51	3876	0	-	-	0.0	-	204	184	-	29587	93%	4%	3%
OLA031	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	3866	0	-	-	0.0	-	204	182	-	29587	93%	4%	3%
OLA032	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	65	3789	0	-	-	0.0	-	204	181	-	29587	93%	4%	3%
OLA033	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-57	-57	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	3793	0	-	-	0.0	-	204	182	-	29587	93%	4%	3%
OLA034	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	3779	0	-	-	0.0	-	204	182	-	29587	93%	4%	3%
OLA035	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	3708	0	-	-	0.0	-	204	182	-	29587	93%	4%	3%
OLA036	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-45	-45	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	3742	0	-	-	0.0	-	204	182	-	29587	93%	4%	3%
OLA037	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	3671	0	-	-	0.0	-	204	182	-	29587	93%	4%	3%
OLA038	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-35	-35	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	3699	0	-	-	0.0	-	204	182	-	29587	93%	4%	3%
OLA039	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	3636	0	-	-	0.0	-	204	181	-	29587	93%	4%	3%
OLA040	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-26	-25	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	3670	0	-	-	0.0	-	204	183	-	29587	93%	4%	3%
OLA041	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	36	3603	0	-	-	0.0	-	204	181	-	29587	93%	4%	3%
OLA042	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	3596	0	-	-	0.0	-	204	182	-	29587	93%	4%	3%
OLA043	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-19	-19	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	37	3652	0	-19	-19	1.8	12	204	183	182	29587	93%	4%	3%
OLA044	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	3578	0	-	-	0.0	-	204	182	-	29587	93%	4%	3%
OLA045	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	3561	0	-	-	0.0	-	204	183	-	29587	93%	4%	3%
OLA046	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-26	-26	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	3620	0	-	-	0.0	-	204	185	-	29587	93%	4%	3%
OLA047	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	3520	0	-	-	0.0	-	204	183	-	29587	93%	4%	3%
OLA048	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-46	-45	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	3536	0	-46	-45	2.0	10	204	184	184	29587	93%	4%	3%
OLA049	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-52	-51	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	3516	0	-52	-51	2.0	25	204	184	185	29587	93%	4%	3%
OLA050	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	3475	0	-	-	0.0	-	204	185	-	29587	93%	4%	3%
OLA051	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-58	-57	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	3462	0	-58	-57	2.0	11	204	184	185	29587	93%	4%	3%
OLA052	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	3425	0	-	-	0.0	-	204	185	-	29587	93%	4%	3%
OLA053	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-65	-64	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	3419	0	-65	-64	2.0	19	204	184	185	29587	93%	4%	3%
OLA054	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-76	-75	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	3367	0	-76	-75	2.0	12	204	184	186	29587	93%	4%	3%
OLA055	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	36	3362	0	-	-	0.0	-	204	185	-	29587	93%	4%	3%
OLA056	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-78	-76	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	3316	0	-78	-76	2.0	13	204	185	186	29587	93%	4%	3%
OLA057	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	37	3309	0	-	-	0.0	-	204	185	-	29587	93%	4%	3%
OLA058	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-78	-76	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	32	3261	0	-78	-76	2.0	10	204	185	186	29587	93%	4%	3%

OLA059	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	3246	0	-	-	0.0	-	204	185	-	29587	93%	4%	3%
OLA060	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	37	3210	0	-77	-76	1.8	15	204	186	186	29587	93%	4%	3%
OLA061	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	35	3171	0	-	-	0.0	-	204	184	-	29587	93%	4%	3%
OLA062	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	30	3153	0	-77	-75	1.8	7	204	186	185	29587	93%	4%	3%
OLA063	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	17	3112	0	-	-	0.0	-	204	185	-	29587	93%	4%	3%
OLA064	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-76	-74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	52	3110	0	-76	-74	1.8	6	204	186	185	29587	93%	4%	3%
OLA065	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	3035	0	-	-	0.0	-	204	183	-	29587	93%	4%	3%
OLA066	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	2980	0	-	-	0.0	-	204	183	-	29587	93%	4%	3%
OLA067	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	2940	0	-75	-73	1.8	14	204	181	182	29587	93%	4%	3%
OLA068	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	2898	0	-	-	0.0	-	204	180	-	29587	93%	4%	3%
OLA069	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	59	2868	0	-75	-72	1.8	31	204	181	180	29587	93%	4%	3%
OLA070	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	2819	0	-75	-72	1.8	17	204	179	178	29587	93%	4%	3%
OLA071	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	2808	0	-	-	0.0	-	204	178	-	29587	93%	4%	3%
OLA072	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	2742	0	-	-	0.0	-	204	177	-	29587	93%	4%	3%
OLA073	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	2736	0	-75	-72	1.9	10	204	177	177	29587	93%	4%	3%
OLA074	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	2661	0	-	-	0.0	-	204	176	-	29587	93%	4%	3%
OLA075	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	68	2652	0	-	-	0.0	-	204	175	-	29587	93%	4%	3%
OLA076	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-80	-77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	78	2588	0	-	-	0.0	-	204	175	-	29587	93%	4%	3%
OLA077	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	84	87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	2355	0	84	87	6.0	3	204	174	174	29587	93%	4%	3%
OLA078	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	72	2345	0	-87	-84	6.0	3	204	172	172	29587	93%	4%	3%
OLA079	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	36	2274	0	-	-	0.0	-	204	175	-	29587	93%	4%	3%
OLA080	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	31	2274	0	-77	-76	1.7	30	204	174	174	29587	93%	4%	3%
OLA081	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	2224	0	-	-	0.0	-	204	175	-	29587	93%	4%	3%
OLA082	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	1944	0	-73	-69	1.8	15	204	181	181	29587	93%	4%	3%
OLA083	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	1897	0	-77	-72	2.0	13	204	182	182	29587	93%	4%	3%
OLA084	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-82	-78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	1844	0	-82	-78	1.6	18	204	183	182	29587	93%	4%	3%
OLA085	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	34	1731	0	-	-	0.0	-	204	182	-	29587	93%	4%	3%
OLA086	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	-78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	77	355	0	-	-	0.0	-	204	193	-	29587	93%	4%	3%
OLA087	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	315	0	-	-	0.0	-	204	194	-	29587	93%	4%	3%
OLA088	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-85	-74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	84	295	0	-	-	0.0	-	204	194	-	29587	93%	4%	3%
OLA089	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-52	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	73	0	-55	-52	3.0	3	204	205	205	29587	93%	4%	3%
OLA090	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-84	-22	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	81	88	0	-	-	0.0	-	204	205	-	29587	93%	4%	3%
OLA091	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	49	0	-45	45	3.0	3	203	203	203	29587	93%	4%	3%
OLA092	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-78	86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	38	0	-78	-30	3.0	3	202	203	203	29587	93%	4%	3%
OLA093	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-65	86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	41	0	-33	86	1.7	17	201	202	201	29587	93%	4%	3%
OLA094	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	52	73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	91	0	-	-	0.0	-	201	202	-	29587	93%	4%	3%
OLA095	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	56	66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	73	158	0	-	-	0.0	-	201	202	-	29587	93%	4%	3%
OLA096	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	91	201	0	-	-	0.0	-	201	202	-	29587	93%	4%	3%
OLA097	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	62	70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	33	208	0	62	70	1.8	5	201	202	201	29587	93%	4%	3%
OLA098	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	61	67	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	251	0	61	67	1.8	4	201	202	202	29587	93%	4%	3%
OLA099	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	65	76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	47	390	0	-	-	0.0	-	201	201	-	29587	93%	4%	3%
OLA100	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	883	0	-	-	0.0	-	201	202	-	29587	93%	4%	3%
OLA101	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	955	0	-	-	0.0	-	201	201	-	29587	93%	4%	3%
OLA102	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	69	1174	0	-	-	0.0	-	201	198	-	29587	93%	4%	3%
OLA103	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-64	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	62	1333	0	-	-	0.0	-	201	197	-	29587	93%	4%	3%
OLA104	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-66	-58	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	91	1517	0	-	-	0.0	-	201	196	-	29587	93%	4%	3%

Start of Construction - 2030 S05_SBb Kennedy Road 14th Avenue Denison Street

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	174	6686	0	-90	-89	2.0	7	201	209	209	29587	93%	4%	3%
OLA002	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	57	6621	0	-	-	0.0	-	201	207	-	29587	93%	4%	3%
OLA003	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	33	6602	0	89	89	2.0	4	201	207	206	29587	93%	4%	3%
OLA004	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	55	6509	0	-	-	0.0	-	201	207	-	29587	93%	4%	3%
OLA005	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	6466	0	89	90	2.2	5	201	208	207	29587	93%	4%	3%
OLA006	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	6430	0	-	-	0.0	-	201	207	-	29587	93%	4%	3%
OLA007	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	88	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	6434	0	88	89	2.1	5	201	208	207	29587	93%	4%	3%
OLA008	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	6359	0	-	-	0.0	-	201	207	-	29587	93%	4%	3%
OLA009	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	22	6358	0	89	90	2.1	5	201	207	207	29587	93%	4%	3%
OLA010	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	49	6258	0	-	-	0.0	-	201	206	-	29587	93%	4%	3%
OLA011	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	88	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	6265	0	-	-	0.0	-	201	206	-	29587	93%	4%	3%
OLA012	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	6170	0	-	-	0.0	-	201	204	-	29587	93%	4%	3%
OLA013	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	56	6111	0	-	-	0.0	-	201	204	-	29587	93%	4%	3%
OLA014	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	19	6098	0	89	90	2.0	4	201	203	203	29587	93%	4%	3%
OLA015	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	24	6019	0	-	-	0.0	-	201	202	-	29587	93%	4%	3%
OLA016	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	65	5975	0	-	-	0.0	-	201	200	-	29587	93%	4%	3%
OLA017	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	38	5732	0	-89	-89	1.9	7	201	196	196	29587	93%	4%	3%
OLA018	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	5696	0	-89	-89	1.9	2	201	196	196	29587	93%	4%	3%
OLA019	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	5656	0	-	-	0.0	-	201	197	-	29587	93%	4%	3%
OLA020	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	5562	0	-89	-88	2.0	8	201	197	197	29587	93%	4%	3%
OLA021	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	-88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	69	5516	0	-	-	0.0	-	201	200	-	29587	93%	4%	3%
OLA022	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	5370	0	-86	-86	9.0	3	201	200	200	29587	93%	4%	3%
OLA023	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	73	5340	0	-	-	0.0	-	201	199	-	29587	93%	4%	3%
OLA024	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	5157	0	-	-	0.0	-	201	193	-	29587	93%	4%	3%
OLA025	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	-87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	37	5091	0	-87	-87	1.8	5	201	191	192	29587	93%	4%	3%
OLA026	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	53	4697	0	89	89	6.0	3	201	183	183	29587	93%	4%	3%
OLA027	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	49	4654	0	-	-	0.0	-	201	185	-	29587	93%	4%	3%
OLA028	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	4620	0	-	-	0.0	-	201	182	-	29587	93%	4%	3%
OLA029	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-82	-81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	55	4595	0	-	-	0.0	-	201	185	-	29587	93%	4%	3%
OLA030	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-77	-76	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	51	4553	0	-	-	0.0	-	201	184	-	29587	93%	4%	3%
OLA031	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	4543	0	-	-	0.0	-	201	182	-	29587	93%	4%	3%
OLA032	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	65	4467	0	-	-	0.0	-	201	181	-	29587	93%	4%	3%
OLA033	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-57	-57	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	4471	0	-	-	0.0	-	201	182	-	29587	93%	4%	3%
OLA034	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	4457	0	-	-	0.0	-	201	182	-	29587	93%	4%	3%
OLA035	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	4385	0	-	-	0.0	-	201	182	-	29587	93%	4%	3%
OLA036	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-45	-45	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	4420	0	-	-	0.0	-	201	182	-	29587	93%	4%	3%
OLA037	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	4348	0	-	-	0.0	-	201	182	-	29587	93%	4%	3%
OLA038	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-35	-35	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	4376	0	-	-	0.0	-	201	182	-	29587	93%	4%	3%
OLA039	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	4313	0	-	-	0.0	-	201	181	-	29587	93%	4%	3%
OLA040	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-26	-26	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	4347	0	-	-	0.0	-	201	183	-	29587	93%	4%	3%
OLA041	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	36	4280	0	-	-	0.0	-	201	181	-	29587	93%	4%	3%
OLA042	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	4273	0	-	-	0.0	-	201	182	-	29587	93%	4%	3%
OLA043	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-19	-19	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	37	4329	0	-19	-19	1.8	12	201	183	182	29587	93%	4%	3%
OLA044	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	4254	0	-	-	0.0	-	201	182	-	29587	93%	4%	3%
OLA045	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	4236	0	-	-	0.0	-	201	183	-	29587	93%	4%	3%
OLA046	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-26	-26	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	4295	0	-	-	0.0	-	201	185	-	29587	93%	4%	3%
OLA047	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	4195	0	-	-	0.0	-	201	183	-	29587	93%	4%	3%
OLA048	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-46	-46	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	4209	0	-46	-46	2.0	10	201	184	184	29587	93%	4%	3%
OLA049	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-52	-51	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	4188	0	-52	-51	2.0	25	201	184	185	29587	93%	4%	3%
OLA050	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	4149	0	-	-	0.0	-	201	185	-	29587	93%	4%	3%
OLA051	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-58	-58	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	4134	0	-58	-58	2.0	11	201	184	185	29587	93%	4%	3%
OLA052	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	4099	0	-	-	0.0	-	201	185	-	29587	93%	4%	3%
OLA053	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-65	-65	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	4090	0	-65	-65	2.0	19	201	184	185	29587	93%	4%	3%
OLA054	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-76	-76	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	4038	0	-76	-76	2.0	12	201	184	186	29587	93%	4%	3%
OLA055	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	36	4035	0	-	-	0.0	-	201	185	-	29587	93%	4%	3%
OLA056	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-78	-78	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	3986	0	-78	-78	2.0	13	201	185	186	29587	93%	4%	3%
OLA057	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	37	3981	0	-	-	0.0	-	201	185	-	29587	93%	4%	3%
OLA058	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-78	-77	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	32	3932	0	-78	-77	2.0	10	201	185	186	29587	93%	4%	3%

OLA059	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	3918	0	-	-	0.0	-	201	185	-	29587	93%	4%	3%
OLA060	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	37	3879	0	-77	-77	1.8	15	201	186	186	29587	93%	4%	3%
OLA061	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	35	3842	0	-	-	0.0	-	201	184	-	29587	93%	4%	3%
OLA062	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	30	3822	0	-77	-77	1.8	7	201	186	185	29587	93%	4%	3%
OLA063	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	17	3783	0	-	-	0.0	-	201	185	-	29587	93%	4%	3%
OLA064	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-76	-76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	52	3779	0	-76	-76	1.8	6	201	186	185	29587	93%	4%	3%
OLA065	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	3705	0	-	-	0.0	-	201	183	-	29587	93%	4%	3%
OLA066	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	3650	0	-	-	0.0	-	201	183	-	29587	93%	4%	3%
OLA067	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	3607	0	-75	-75	1.8	14	201	181	182	29587	93%	4%	3%
OLA068	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	3568	0	-	-	0.0	-	201	180	-	29587	93%	4%	3%
OLA069	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	59	3534	0	-75	-74	1.8	31	201	181	180	29587	93%	4%	3%
OLA070	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	3485	0	-75	-74	1.8	17	201	179	178	29587	93%	4%	3%
OLA071	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	3477	0	-	-	0.0	-	201	178	-	29587	93%	4%	3%
OLA072	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	3410	0	-	-	0.0	-	201	177	-	29587	93%	4%	3%
OLA073	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	3401	0	-75	-74	1.9	10	201	177	177	29587	93%	4%	3%
OLA074	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	3329	0	-	-	0.0	-	201	176	-	29587	93%	4%	3%
OLA075	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	68	3315	0	-	-	0.0	-	201	175	-	29587	93%	4%	3%
OLA076	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-80	-80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	78	3250	0	-	-	0.0	-	201	175	-	29587	93%	4%	3%
OLA077	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	84	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	3023	0	84	85	6.0	3	201	174	174	29587	93%	4%	3%
OLA078	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	72	3008	0	-87	-87	6.0	3	201	172	172	29587	93%	4%	3%
OLA079	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	36	2942	0	-	-	0.0	-	201	175	-	29587	93%	4%	3%
OLA080	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	31	2939	0	-77	-77	1.7	30	201	174	174	29587	93%	4%	3%
OLA081	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	2892	0	-	-	0.0	-	201	175	-	29587	93%	4%	3%
OLA082	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	2600	0	-73	-73	1.8	15	201	181	181	29587	93%	4%	3%
OLA083	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	2553	0	-77	-76	2.0	13	201	182	182	29587	93%	4%	3%
OLA084	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-82	-82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	2499	0	-82	-82	1.6	18	201	183	182	29587	93%	4%	3%
OLA085	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	34	2387	0	-	-	0.0	-	201	182	-	29587	93%	4%	3%
OLA086	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	-84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	77	1028	0	-	-	0.0	-	201	193	-	29587	93%	4%	3%
OLA087	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	989	0	-	-	0.0	-	201	194	-	29587	93%	4%	3%
OLA088	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-85	-84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	84	965	0	-	-	0.0	-	201	194	-	29587	93%	4%	3%
OLA089	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	736	0	-	-	0.0	-	201	205	-	29587	93%	4%	3%
OLA090	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-84	-83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	81	714	0	-	-	0.0	-	201	205	-	29587	93%	4%	3%
OLA091	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	336	0	-	-	0.0	-	201	203	-	29587	93%	4%	3%
OLA092	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-78	-77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	191	0	-78	-77	3.0	3	201	203	203	29587	93%	4%	3%
OLA093	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-71	-65	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	98	0	-	-	0.0	-	201	202	-	29587	93%	4%	3%
OLA094	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-50	52	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	53	0	-50	46	2.0	12	200	202	201	29587	93%	4%	3%
OLA095	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-9	56	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	73	73	0	-9	15	6.0	3	200	202	202	29587	93%	4%	3%
OLA096	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-32	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	91	105	0	-	-	0.0	-	200	202	-	29587	93%	4%	3%
OLA097	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	59	70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	33	66	0	59	70	1.8	5	200	202	201	29587	93%	4%	3%
OLA098	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	57	67	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	111	0	57	67	1.8	4	200	202	202	29587	93%	4%	3%
OLA099	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	76	78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	47	247	0	-	-	0.0	-	200	201	-	29587	93%	4%	3%
OLA100	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	745	0	-90	-88	2.2	7	200	202	202	29587	93%	4%	3%
OLA101	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	818	0	-90	-88	2.1	6	200	201	201	29587	93%	4%	3%
OLA102	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-76	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	69	1037	0	-	-	0.0	-	200	198	-	29587	93%	4%	3%
OLA103	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-64	-62	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	62	1194	0	-	-	0.0	-	200	197	-	29587	93%	4%	3%
OLA104	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-58	-57	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	91	1376	0	-	-	0.0	-	200	196	-	29587	93%	4%	3%

Start of Construction - 2030 S05_SBc Kennedy Road 14th Avenue Denison Street

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	174	6825	0	-89	-89	2.0	7	200	209	209	29587	93%	4%	3%
OLA002	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	57	6759	0	-	-	0.0	-	200	207	-	29587	93%	4%	3%
OLA003	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	33	6740	0	89	90	2.0	4	200	207	206	29587	93%	4%	3%
OLA004	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	55	6646	0	-	-	0.0	-	200	207	-	29587	93%	4%	3%
OLA005	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	6604	0	90	90	2.2	5	200	208	207	29587	93%	4%	3%
OLA006	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	6569	0	-90	-90	2.1	6	200	207	207	29587	93%	4%	3%
OLA007	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	6573	0	89	90	2.1	5	200	208	207	29587	93%	4%	3%
OLA008	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	6498	0	-90	-90	2.0	12	200	207	207	29587	93%	4%	3%
OLA009	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	22	6497	0	90	90	2.1	5	200	207	207	29587	93%	4%	3%
OLA010	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	49	6397	0	-90	-90	1.9	8	200	206	206	29587	93%	4%	3%
OLA011	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	6403	0	-	-	0.0	-	200	206	-	29587	93%	4%	3%
OLA012	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	6308	0	-90	-89	2.4	7	200	204	204	29587	93%	4%	3%
OLA013	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	56	6249	0	-	-	0.0	-	200	204	-	29587	93%	4%	3%
OLA014	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	19	6236	0	90	90	2.0	4	200	203	203	29587	93%	4%	3%
OLA015	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	24	6157	0	-	-	0.0	-	200	202	-	29587	93%	4%	3%
OLA016	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	65	6113	0	-	-	0.0	-	200	200	-	29587	93%	4%	3%
OLA017	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	38	5870	0	-89	-88	1.9	7	200	196	196	29587	93%	4%	3%
OLA018	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	5835	0	-89	-88	1.9	2	200	196	196	29587	93%	4%	3%
OLA019	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	5795	0	-	-	0.0	-	200	197	-	29587	93%	4%	3%
OLA020	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	-87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	5700	0	-88	-87	2.0	8	200	197	197	29587	93%	4%	3%
OLA021	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	-87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	69	5655	0	-	-	0.0	-	200	200	-	29587	93%	4%	3%
OLA022	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	-85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	5508	0	-86	-85	9.0	3	200	200	200	29587	93%	4%	3%
OLA023	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	73	5478	0	-	-	0.0	-	200	199	-	29587	93%	4%	3%
OLA024	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	5295	0	-	-	0.0	-	200	193	-	29587	93%	4%	3%
OLA025	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	37	5230	0	-87	-86	1.8	5	200	191	192	29587	93%	4%	3%
OLA026	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	53	4835	0	89	90	6.0	3	200	183	183	29587	93%	4%	3%
OLA027	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	49	4793	0	-90	-90	2.5	26	200	185	184	29587	93%	4%	3%
OLA028	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	4758	0	-	-	0.0	-	200	182	-	29587	93%	4%	3%
OLA029	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-81	-80	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	55	4734	0	-	-	0.0	-	200	185	-	29587	93%	4%	3%
OLA030	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-76	-75	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	51	4692	0	-	-	0.0	-	200	184	-	29587	93%	4%	3%
OLA031	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	4681	0	-	-	0.0	-	200	182	-	29587	93%	4%	3%
OLA032	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	65	4605	0	-	-	0.0	-	200	181	-	29587	93%	4%	3%
OLA033	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-57	-56	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	4610	0	-	-	0.0	-	200	182	-	29587	93%	4%	3%
OLA034	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	4595	0	-	-	0.0	-	200	182	-	29587	93%	4%	3%
OLA035	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	4524	0	-	-	0.0	-	200	182	-	29587	93%	4%	3%
OLA036	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-45	-44	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	4559	0	-	-	0.0	-	200	182	-	29587	93%	4%	3%
OLA037	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	4487	0	-	-	0.0	-	200	182	-	29587	93%	4%	3%
OLA038	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-35	-33	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	4516	0	-	-	0.0	-	200	182	-	29587	93%	4%	3%
OLA039	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	4453	0	-	-	0.0	-	200	181	-	29587	93%	4%	3%
OLA040	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-26	-24	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	4487	0	-	-	0.0	-	200	183	-	29587	93%	4%	3%
OLA041	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	36	4420	0	-	-	0.0	-	200	181	-	29587	93%	4%	3%
OLA042	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	4413	0	-	-	0.0	-	200	182	-	29587	93%	4%	3%
OLA043	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-19	-18	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	37	4469	0	-19	-18	1.8	12	200	183	182	29587	93%	4%	3%
OLA044	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	4395	0	-	-	0.0	-	200	182	-	29587	93%	4%	3%
OLA045	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	4377	0	-	-	0.0	-	200	183	-	29587	93%	4%	3%
OLA046	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-26	-25	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	4436	0	-	-	0.0	-	200	185	-	29587	93%	4%	3%
OLA047	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	4336	0	-	-	0.0	-	200	183	-	29587	93%	4%	3%
OLA048	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-46	-45	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	4351	0	-46	-45	2.0	10	200	184	184	29587	93%	4%	3%
OLA049	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-51	-50	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	4330	0	-51	-50	2.0	25	200	184	185	29587	93%	4%	3%
OLA050	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	4291	0	-	-	0.0	-	200	185	-	29587	93%	4%	3%
OLA051	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-58	-57	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	4276	0	-58	-57	2.0	11	200	184	185	29587	93%	4%	3%
OLA052	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	4240	0	-	-	0.0	-	200	185	-	29587	93%	4%	3%
OLA053	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-65	-64	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	4232	0	-65	-64	2.0	19	200	184	185	29587	93%	4%	3%
OLA054	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-76	-75	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	4180	0	-76	-75	2.0	12	200	184	186	29587	93%	4%	3%
OLA055	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	36	4177	0	-	-	0.0	-	200	185	-	29587	93%	4%	3%
OLA056	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-78	-77	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	4128	0	-78	-77	2.0	13	200	185	186	29587	93%	4%	3%
OLA057	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	37	4123	0	-	-	0.0	-	200	185	-	29587	93%	4%	3%
OLA058	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-77	-76	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	32	4074	0	-77	-76	2.0	10	200	185	186	29587	93%	4%	3%

OLA059	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	4059	0	-	-	0.0	-	200	185	-	29587	93%	4%	3%
OLA060	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	37	4022	0	-77	-76	1.8	15	200	186	186	29587	93%	4%	3%
OLA061	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	35	3984	0	-	-	0.0	-	200	184	-	29587	93%	4%	3%
OLA062	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	30	3965	0	-77	-76	1.8	7	200	186	185	29587	93%	4%	3%
OLA063	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	17	3925	0	-	-	0.0	-	200	185	-	29587	93%	4%	3%
OLA064	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-76	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	52	3921	0	-76	-75	1.8	6	200	186	185	29587	93%	4%	3%
OLA065	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	3848	0	-	-	0.0	-	200	183	-	29587	93%	4%	3%
OLA066	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	3792	0	-	-	0.0	-	200	183	-	29587	93%	4%	3%
OLA067	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	3749	0	-75	-74	1.8	14	200	181	182	29587	93%	4%	3%
OLA068	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	3710	0	-	-	0.0	-	200	180	-	29587	93%	4%	3%
OLA069	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-74	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	59	3677	0	-74	-73	1.8	31	200	181	180	29587	93%	4%	3%
OLA070	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-74	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	3628	0	-74	-73	1.8	17	200	179	178	29587	93%	4%	3%
OLA071	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	3619	0	-	-	0.0	-	200	178	-	29587	93%	4%	3%
OLA072	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	3552	0	-	-	0.0	-	200	177	-	29587	93%	4%	3%
OLA073	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-74	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	3544	0	-74	-73	1.9	10	200	177	177	29587	93%	4%	3%
OLA074	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	3471	0	-	-	0.0	-	200	176	-	29587	93%	4%	3%
OLA075	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	68	3458	0	-	-	0.0	-	200	175	-	29587	93%	4%	3%
OLA076	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-80	-79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	78	3393	0	-	-	0.0	-	200	175	-	29587	93%	4%	3%
OLA077	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	85	86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	3166	0	85	86	6.0	3	200	174	174	29587	93%	4%	3%
OLA078	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	72	3151	0	-87	-86	6.0	3	200	172	172	29587	93%	4%	3%
OLA079	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	36	3084	0	-	-	0.0	-	200	175	-	29587	93%	4%	3%
OLA080	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	31	3082	0	-77	-76	1.7	30	200	174	174	29587	93%	4%	3%
OLA081	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	3035	0	-	-	0.0	-	200	175	-	29587	93%	4%	3%
OLA082	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	2743	0	-73	-71	1.8	15	200	181	181	29587	93%	4%	3%
OLA083	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-76	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	2696	0	-76	-75	2.0	13	200	182	182	29587	93%	4%	3%
OLA084	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-82	-81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	2643	0	-82	-81	1.6	18	200	183	182	29587	93%	4%	3%
OLA085	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	34	2530	0	-	-	0.0	-	200	182	-	29587	93%	4%	3%
OLA086	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-84	-81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	77	1169	0	-	-	0.0	-	200	193	-	29587	93%	4%	3%
OLA087	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-85	-81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	1129	0	-	-	0.0	-	200	194	-	29587	93%	4%	3%
OLA088	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-84	-80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	84	1107	0	-	-	0.0	-	200	194	-	29587	93%	4%	3%
OLA089	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-85	-81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	877	0	-	-	0.0	-	200	205	-	29587	93%	4%	3%
OLA090	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-83	-79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	81	856	0	-	-	0.0	-	200	205	-	29587	93%	4%	3%
OLA091	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-79	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	479	0	-	-	0.0	-	200	203	-	29587	93%	4%	3%
OLA092	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	334	0	-77	-70	3.0	3	200	203	203	29587	93%	4%	3%
OLA093	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-71	-66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	241	0	-	-	0.0	-	200	202	-	29587	93%	4%	3%
OLA094	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-66	-50	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	94	0	-66	-50	2.0	12	200	202	201	29587	93%	4%	3%
OLA095	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-64	-9	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	73	75	0	-64	-9	6.0	3	200	202	202	29587	93%	4%	3%
OLA096	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-32	59	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	91	91	0	-	-	0.0	-	200	202	-	29587	93%	4%	3%
OLA097	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	59	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	33	33	0	-77	59	1.8	5	200	202	201	29587	93%	4%	3%
OLA098	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-63	57	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	57	0	-63	57	1.8	4	200	202	202	29587	93%	4%	3%
OLA099	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	38	78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	47	59	0	-	-	0.0	-	201	201	-	29587	93%	4%	3%
OLA100	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-88	-87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	540	0	-88	-87	2.2	7	201	202	202	29587	93%	4%	3%
OLA101	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-88	-87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	613	0	-88	-87	2.1	6	201	201	201	29587	93%	4%	3%
OLA102	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	69	832	0	-	-	0.0	-	201	198	-	29587	93%	4%	3%
OLA103	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-62	-62	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	62	989	0	-	-	0.0	-	201	197	-	29587	93%	4%	3%
OLA104	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-57	-57	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	91	1171	0	-	-	0.0	-	201	196	-	29587	93%	4%	3%

Start of Construction - 2030 S06_SBa Kennedy Road Denison Street Steeles Avenue

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	174	7005	0	-89	-86	2.0	7	201	209	209	25275	98%	2%	0%
OLA002	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	57	6938	0	-	-	0.0	-	201	207	-	25275	98%	2%	0%
OLA003	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	33	6917	0	90	90	2.0	4	201	207	206	25275	98%	2%	0%
OLA004	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	55	6823	0	-	-	0.0	-	201	207	-	25275	98%	2%	0%
OLA005	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	6781	0	-	-	0.0	-	201	208	-	25275	98%	2%	0%
OLA006	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	6747	0	-90	-87	2.1	6	201	207	207	25275	98%	2%	0%
OLA007	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	6750	0	90	90	2.1	5	201	208	207	25275	98%	2%	0%
OLA008	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	6676	0	-90	-87	2.0	12	201	207	207	25275	98%	2%	0%
OLA009	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	22	6674	0	-	-	0.0	-	201	207	-	25275	98%	2%	0%
OLA010	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	49	6575	0	-90	-87	1.9	8	201	206	206	25275	98%	2%	0%
OLA011	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	6580	0	-	-	0.0	-	201	206	-	25275	98%	2%	0%
OLA012	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	6486	0	-89	-86	2.4	7	201	204	204	25275	98%	2%	0%
OLA013	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	56	6428	0	-	-	0.0	-	201	204	-	25275	98%	2%	0%
OLA014	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	19	6414	0	-	-	0.0	-	201	203	-	25275	98%	2%	0%
OLA015	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	24	6334	0	-	-	0.0	-	201	202	-	25275	98%	2%	0%
OLA016	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	65	6289	0	-	-	0.0	-	201	200	-	25275	98%	2%	0%
OLA017	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	-85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	38	6048	0	-88	-85	1.9	7	201	196	196	25275	98%	2%	0%
OLA018	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	-84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	6013	0	-88	-84	1.9	2	201	196	196	25275	98%	2%	0%
OLA019	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	-84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	5974	0	-	-	0.0	-	201	197	-	25275	98%	2%	0%
OLA020	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	-84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	5879	0	-87	-84	2.0	8	201	197	197	25275	98%	2%	0%
OLA021	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	-84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	69	5834	0	-	-	0.0	-	201	200	-	25275	98%	2%	0%
OLA022	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-85	-81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	5687	0	-85	-81	9.0	3	201	200	200	25275	98%	2%	0%
OLA023	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	73	5654	0	-	-	0.0	-	201	199	-	25275	98%	2%	0%
OLA024	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	5472	0	-	-	0.0	-	201	193	-	25275	98%	2%	0%
OLA025	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	-82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	37	5408	0	-86	-82	1.8	5	201	191	192	25275	98%	2%	0%
OLA026	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	53	5012	0	-	-	0.0	-	201	183	-	25275	98%	2%	0%
OLA027	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	49	4972	0	-90	-86	2.5	26	201	185	184	25275	98%	2%	0%
OLA028	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	4935	0	-	-	0.0	-	201	182	-	25275	98%	2%	0%
OLA029	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-80	-76	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	55	4913	0	-	-	0.0	-	201	185	-	25275	98%	2%	0%
OLA030	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-75	-71	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	51	4871	0	-	-	0.0	-	201	184	-	25275	98%	2%	0%
OLA031	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	4858	0	-	-	0.0	-	201	182	-	25275	98%	2%	0%
OLA032	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	65	4782	0	-	-	0.0	-	201	181	-	25275	98%	2%	0%
OLA033	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-56	-52	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	4790	0	-	-	0.0	-	201	182	-	25275	98%	2%	0%
OLA034	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	4774	0	-	-	0.0	-	201	182	-	25275	98%	2%	0%
OLA035	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	4703	0	-	-	0.0	-	201	182	-	25275	98%	2%	0%
OLA036	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-44	-40	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	4740	0	-	-	0.0	-	201	182	-	25275	98%	2%	0%
OLA037	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	4667	0	-	-	0.0	-	201	182	-	25275	98%	2%	0%
OLA038	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-33	-29	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	4697	0	-	-	0.0	-	201	182	-	25275	98%	2%	0%
OLA039	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	4634	0	-	-	0.0	-	201	181	-	25275	98%	2%	0%
OLA040	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-24	-21	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	4670	0	-	-	0.0	-	201	183	-	25275	98%	2%	0%
OLA041	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	36	4602	0	-	-	0.0	-	201	181	-	25275	98%	2%	0%
OLA042	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	4596	0	-	-	0.0	-	201	182	-	25275	98%	2%	0%
OLA043	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-18	-14	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	37	4653	0	-18	-14	1.8	12	201	183	182	25275	98%	2%	0%
OLA044	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	4578	0	-	-	0.0	-	201	182	-	25275	98%	2%	0%
OLA045	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	4562	0	-	-	0.0	-	201	183	-	25275	98%	2%	0%
OLA046	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-25	-21	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	4622	0	-	-	0.0	-	201	185	-	25275	98%	2%	0%
OLA047	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	4522	0	-	-	0.0	-	201	183	-	25275	98%	2%	0%
OLA048	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-45	-41	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	4539	0	-45	-41	2.0	10	201	184	184	25275	98%	2%	0%
OLA049	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-50	-47	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	4518	0	-50	-47	2.0	25	201	184	185	25275	98%	2%	0%
OLA050	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	4478	0	-	-	0.0	-	201	185	-	25275	98%	2%	0%
OLA051	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-57	-54	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	4464	0	-57	-54	2.0	11	201	184	185	25275	98%	2%	0%
OLA052	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	4428	0	-	-	0.0	-	201	185	-	25275	98%	2%	0%
OLA053	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-64	-61	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	4422	0	-64	-61	2.0	19	201	184	185	25275	98%	2%	0%
OLA054	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-75	-71	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	4370	0	-75	-71	2.0	12	201	184	186	25275	98%	2%	0%
OLA055	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	36	4365	0	-	-	0.0	-	201	185	-	25275	98%	2%	0%
OLA056	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-77	-73	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	4318	0	-77	-73	2.0	13	201	185	186	25275	98%	2%	0%
OLA057	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	37	4311	0	-	-	0.0	-	201	185	-	25275	98%	2%	0%
OLA058	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-76	-73	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	32	4264	0	-76	-73	2.0	10	201	185	186	25275	98%	2%	0%

OLA059	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	4248	0	-	-	0.0	-	201	185	-	25275	98%	2%	0%
OLA060	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-76	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	37	4212	0	-76	-73	1.8	15	201	186	186	25275	98%	2%	0%
OLA061	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	35	4173	0	-	-	0.0	-	201	184	-	25275	98%	2%	0%
OLA062	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-76	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	30	4155	0	-76	-72	1.8	7	201	186	185	25275	98%	2%	0%
OLA063	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	17	4115	0	-	-	0.0	-	201	185	-	25275	98%	2%	0%
OLA064	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	52	4112	0	-75	-72	1.8	6	201	186	185	25275	98%	2%	0%
OLA065	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	4037	0	-	-	0.0	-	201	183	-	25275	98%	2%	0%
OLA066	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	3982	0	-	-	0.0	-	201	183	-	25275	98%	2%	0%
OLA067	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-74	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	3941	0	-74	-70	1.8	14	201	181	182	25275	98%	2%	0%
OLA068	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	3900	0	-	-	0.0	-	201	180	-	25275	98%	2%	0%
OLA069	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	59	3870	0	-73	-70	1.8	31	201	181	180	25275	98%	2%	0%
OLA070	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	3820	0	-73	-70	1.8	17	201	179	178	25275	98%	2%	0%
OLA071	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	3810	0	-	-	0.0	-	201	178	-	25275	98%	2%	0%
OLA072	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	3744	0	-	-	0.0	-	201	177	-	25275	98%	2%	0%
OLA073	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	3737	0	-73	-70	1.9	10	201	177	177	25275	98%	2%	0%
OLA074	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	3662	0	-	-	0.0	-	201	176	-	25275	98%	2%	0%
OLA075	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-72	-69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	68	3652	0	-	-	0.0	-	201	175	-	25275	98%	2%	0%
OLA076	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-79	-76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	78	3587	0	-	-	0.0	-	201	175	-	25275	98%	2%	0%
OLA077	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	86	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	3357	0	86	90	6.0	3	201	174	174	25275	98%	2%	0%
OLA078	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	-82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	72	3345	0	-86	-82	6.0	3	201	172	172	25275	98%	2%	0%
OLA079	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	36	3275	0	-	-	0.0	-	201	175	-	25275	98%	2%	0%
OLA080	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	31	3275	0	-	-	0.0	-	201	174	-	25275	98%	2%	0%
OLA081	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	3226	0	-	-	0.0	-	201	175	-	25275	98%	2%	0%
OLA082	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-71	-68	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	2939	0	-71	-68	1.8	15	201	181	181	25275	98%	2%	0%
OLA083	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	2892	0	-75	-72	2.0	13	201	182	182	25275	98%	2%	0%
OLA084	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	2839	0	-81	-77	1.6	18	201	183	182	25275	98%	2%	0%
OLA085	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	34	2726	0	-	-	0.0	-	201	182	-	25275	98%	2%	0%
OLA086	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	77	1357	0	-	-	0.0	-	201	193	-	25275	98%	2%	0%
OLA087	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	1317	0	-	-	0.0	-	201	194	-	25275	98%	2%	0%
OLA088	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-80	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	84	1296	0	-	-	0.0	-	201	194	-	25275	98%	2%	0%
OLA089	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	1066	0	-	-	0.0	-	201	205	-	25275	98%	2%	0%
OLA090	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-79	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	81	1049	0	-	-	0.0	-	201	205	-	25275	98%	2%	0%
OLA091	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-65	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	675	0	-	-	0.0	-	201	203	-	25275	98%	2%	0%
OLA092	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-70	-63	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	533	0	-70	-63	3.0	3	201	203	203	25275	98%	2%	0%
OLA093	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-66	-62	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	444	0	-	-	0.0	-	201	202	-	25275	98%	2%	0%
OLA094	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-71	-66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	294	0	-67	-66	2.0	12	201	202	201	25275	98%	2%	0%
OLA095	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-64	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	73	240	0	-77	-64	6.0	3	201	202	202	25275	98%	2%	0%
OLA096	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	59	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	91	174	0	-	-	0.0	-	201	202	-	25275	98%	2%	0%
OLA097	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	33	153	0	-87	-77	1.8	5	201	202	201	25275	98%	2%	0%
OLA098	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-63	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	126	0	-87	-63	1.8	4	201	202	202	25275	98%	2%	0%
OLA099	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-88	38	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	47	47	0	-88	-60	24.0	3	201	201	201	25275	98%	2%	0%
OLA100	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	34	0	-87	81	2.2	7	202	202	202	25275	98%	2%	0%
OLA101	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	31	0	-87	78	2.1	6	201	201	201	25275	98%	2%	0%
OLA102	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-72	-25	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	69	80	0	-	-	0.0	-	197	198	-	25275	98%	2%	0%
OLA103	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-62	-61	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	62	208	0	-	-	0.0	-	197	197	-	25275	98%	2%	0%
OLA104	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-65	-57	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	91	396	0	-	-	0.0	-	197	196	-	25275	98%	2%	0%

Start of Construction - 2030 S06_SBb Kennedy Road Denison Street Steeles Avenue

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	174	7700	0	-86	-86	2.0	7	197	209	209	25275	98%	2%	0%
OLA002	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	57	7627	0	-	-	0.0	-	197	207	-	25275	98%	2%	0%
OLA003	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	33	7602	0	-	-	0.0	-	197	207	-	25275	98%	2%	0%
OLA004	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	55	7507	0	-	-	0.0	-	197	207	-	25275	98%	2%	0%
OLA005	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	7466	0	-	-	0.0	-	197	208	-	25275	98%	2%	0%
OLA006	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	7436	0	-87	-86	2.1	6	197	207	207	25275	98%	2%	0%
OLA007	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	7435	0	-	-	0.0	-	197	208	-	25275	98%	2%	0%
OLA008	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	-87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	7365	0	-87	-87	2.0	12	197	207	207	25275	98%	2%	0%
OLA009	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	22	7360	0	-	-	0.0	-	197	207	-	25275	98%	2%	0%
OLA010	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	49	7265	0	-87	-86	1.9	8	197	206	206	25275	98%	2%	0%
OLA011	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	7263	0	-	-	0.0	-	197	206	-	25275	98%	2%	0%
OLA012	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	7176	0	-86	-86	2.4	7	197	204	204	25275	98%	2%	0%
OLA013	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	56	7118	0	-	-	0.0	-	197	204	-	25275	98%	2%	0%
OLA014	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	19	7100	0	-	-	0.0	-	197	203	-	25275	98%	2%	0%
OLA015	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	24	7021	0	-	-	0.0	-	197	202	-	25275	98%	2%	0%
OLA016	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	65	6974	0	-	-	0.0	-	197	200	-	25275	98%	2%	0%
OLA017	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-85	-84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	38	6739	0	-85	-84	1.9	7	197	196	196	25275	98%	2%	0%
OLA018	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-84	-84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	6704	0	-84	-84	1.9	2	197	196	196	25275	98%	2%	0%
OLA019	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-84	-84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	6666	0	-	-	0.0	-	197	197	-	25275	98%	2%	0%
OLA020	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-84	-84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	6570	0	-84	-84	2.0	8	197	197	197	25275	98%	2%	0%
OLA021	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-84	-83	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	69	6528	0	-	-	0.0	-	197	200	-	25275	98%	2%	0%
OLA022	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-81	-81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	6380	0	-81	-81	9.0	3	197	200	200	25275	98%	2%	0%
OLA023	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	73	6340	0	-	-	0.0	-	197	199	-	25275	98%	2%	0%
OLA024	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	6161	0	-	-	0.0	-	197	193	-	25275	98%	2%	0%
OLA025	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-82	-82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	37	6102	0	-82	-82	1.8	5	197	191	192	25275	98%	2%	0%
OLA026	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	53	5700	0	-	-	0.0	-	197	183	-	25275	98%	2%	0%
OLA027	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	-85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	49	5667	0	-86	-85	2.5	26	197	185	184	25275	98%	2%	0%
OLA028	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	5625	0	-	-	0.0	-	197	182	-	25275	98%	2%	0%
OLA029	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-76	-76	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	55	5609	0	-	-	0.0	-	197	185	-	25275	98%	2%	0%
OLA030	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-71	-71	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	51	5568	0	-	-	0.0	-	197	184	-	25275	98%	2%	0%
OLA031	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	5549	0	-	-	0.0	-	197	182	-	25275	98%	2%	0%
OLA032	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	65	5473	0	-	-	0.0	-	197	181	-	25275	98%	2%	0%
OLA033	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-52	-52	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	5488	0	-	-	0.0	-	197	182	-	25275	98%	2%	0%
OLA034	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	5467	0	-	-	0.0	-	197	182	-	25275	98%	2%	0%
OLA035	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	5400	0	-	-	0.0	-	197	182	-	25275	98%	2%	0%
OLA036	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-40	-40	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	5441	0	-	-	0.0	-	197	182	-	25275	98%	2%	0%
OLA037	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	5367	0	-	-	0.0	-	197	182	-	25275	98%	2%	0%
OLA038	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-29	-29	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	5402	0	-	-	0.0	-	197	182	-	25275	98%	2%	0%
OLA039	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	5336	0	-	-	0.0	-	197	181	-	25275	98%	2%	0%
OLA040	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-21	-20	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	5378	0	-	-	0.0	-	197	183	-	25275	98%	2%	0%
OLA041	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	36	5309	0	-	-	0.0	-	197	181	-	25275	98%	2%	0%
OLA042	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	5305	0	-	-	0.0	-	197	182	-	25275	98%	2%	0%
OLA043	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-14	-14	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	37	5364	0	-14	-14	1.8	12	197	183	182	25275	98%	2%	0%
OLA044	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	5291	0	-	-	0.0	-	197	182	-	25275	98%	2%	0%
OLA045	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	5277	0	-	-	0.0	-	197	183	-	25275	98%	2%	0%
OLA046	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-21	-21	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	5339	0	-	-	0.0	-	197	185	-	25275	98%	2%	0%
OLA047	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	5240	0	-	-	0.0	-	197	183	-	25275	98%	2%	0%
OLA048	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-41	-41	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	5263	0	-41	-41	2.0	10	197	184	184	25275	98%	2%	0%
OLA049	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-47	-47	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	5245	0	-47	-47	2.0	25	197	184	185	25275	98%	2%	0%
OLA050	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	5201	0	-	-	0.0	-	197	185	-	25275	98%	2%	0%
OLA051	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-54	-54	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	5192	0	-54	-54	2.0	11	197	184	185	25275	98%	2%	0%
OLA052	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	5153	0	-	-	0.0	-	197	185	-	25275	98%	2%	0%
OLA053	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-61	-61	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	5152	0	-	-	0.0	-	197	184	-	25275	98%	2%	0%
OLA054	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-71	-71	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	5100	0	-	-	0.0	-	197	184	-	25275	98%	2%	0%
OLA055	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	36	5091	0	-	-	0.0	-	197	185	-	25275	98%	2%	0%
OLA056	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-73	-73	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	5050	0	-	-	0.0	-	197	185	-	25275	98%	2%	0%
OLA057	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	37	5039	0	-	-	0.0	-	197	185	-	25275	98%	2%	0%
OLA058	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-73	-73	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	32	4996	0	-	-	0.0	-	197	185	-	25275	98%	2%	0%

OLA059	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	4977	0	-	-	0.0	-	197	185	-	25275	98%	2%	0%
OLA060	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	37	4945	0	-	-	0.0	-	197	186	-	25275	98%	2%	0%
OLA061	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	35	4903	0	-	-	0.0	-	197	184	-	25275	98%	2%	0%
OLA062	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-72	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	30	4889	0	-	-	0.0	-	197	186	-	25275	98%	2%	0%
OLA063	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	17	4846	0	-	-	0.0	-	197	185	-	25275	98%	2%	0%
OLA064	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-72	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	52	4848	0	-	-	0.0	-	197	186	-	25275	98%	2%	0%
OLA065	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	4770	0	-	-	0.0	-	197	183	-	25275	98%	2%	0%
OLA066	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	4715	0	-	-	0.0	-	197	183	-	25275	98%	2%	0%
OLA067	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-70	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	4681	0	-70	-70	1.8	14	197	181	182	25275	98%	2%	0%
OLA068	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	4635	0	-	-	0.0	-	197	180	-	25275	98%	2%	0%
OLA069	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-70	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	59	4610	0	-70	-70	1.8	31	197	181	180	25275	98%	2%	0%
OLA070	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-70	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	4561	0	-70	-70	1.8	17	197	179	178	25275	98%	2%	0%
OLA071	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	4547	0	-	-	0.0	-	197	178	-	25275	98%	2%	0%
OLA072	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	4481	0	-	-	0.0	-	197	177	-	25275	98%	2%	0%
OLA073	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-70	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	4479	0	-70	-70	1.9	10	197	177	177	25275	98%	2%	0%
OLA074	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	4401	0	-	-	0.0	-	197	176	-	25275	98%	2%	0%
OLA075	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-69	-69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	68	4397	0	-	-	0.0	-	197	175	-	25275	98%	2%	0%
OLA076	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-76	-76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	78	4333	0	-	-	0.0	-	197	175	-	25275	98%	2%	0%
OLA077	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	4096	0	90	90	6.0	3	197	174	174	25275	98%	2%	0%
OLA078	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-82	-82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	72	4090	0	-82	-82	6.0	3	197	172	172	25275	98%	2%	0%
OLA079	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	36	4014	0	-	-	0.0	-	197	175	-	25275	98%	2%	0%
OLA080	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-72	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	31	4018	0	-	-	0.0	-	197	174	-	25275	98%	2%	0%
OLA081	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	3964	0	-	-	0.0	-	197	175	-	25275	98%	2%	0%
OLA082	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-68	-68	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	3692	0	-68	-68	1.8	15	197	181	181	25275	98%	2%	0%
OLA083	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-72	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	3645	0	-72	-72	2.0	13	197	182	182	25275	98%	2%	0%
OLA084	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	3593	0	-77	-77	1.6	18	197	183	182	25275	98%	2%	0%
OLA085	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	34	3480	0	-	-	0.0	-	197	182	-	25275	98%	2%	0%
OLA086	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	77	2102	0	-	-	0.0	-	197	193	-	25275	98%	2%	0%
OLA087	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-74	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	2061	0	-	-	0.0	-	197	194	-	25275	98%	2%	0%
OLA088	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	84	2044	0	-	-	0.0	-	197	194	-	25275	98%	2%	0%
OLA089	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-72	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	1817	0	-	-	0.0	-	197	205	-	25275	98%	2%	0%
OLA090	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-71	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	81	1806	0	-	-	0.0	-	197	205	-	25275	98%	2%	0%
OLA091	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-67	-65	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	1444	0	-	-	0.0	-	197	203	-	25275	98%	2%	0%
OLA092	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-65	-63	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	1308	0	-65	-63	3.0	3	197	203	203	25275	98%	2%	0%
OLA093	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-64	-62	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	1223	0	-	-	0.0	-	197	202	-	25275	98%	2%	0%
OLA094	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-74	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	1073	0	-	-	0.0	-	197	202	-	25275	98%	2%	0%
OLA095	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	73	1013	0	-80	-77	6.0	3	197	202	202	25275	98%	2%	0%
OLA096	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	82	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	91	934	0	-	-	0.0	-	197	202	-	25275	98%	2%	0%
OLA097	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	33	931	0	-90	-87	1.8	5	197	202	201	25275	98%	2%	0%
OLA098	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	895	0	-90	-87	1.8	4	197	202	202	25275	98%	2%	0%
OLA099	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	47	745	0	-90	-88	24.0	3	197	201	201	25275	98%	2%	0%
OLA100	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	76	81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	245	0	76	81	2.2	7	197	202	202	25275	98%	2%	0%
OLA101	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	74	78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	173	0	74	78	2.1	6	197	201	201	25275	98%	2%	0%
OLA102	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-25	64	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	69	69	0	50	64	6.0	3	197	198	198	25275	98%	2%	0%
OLA103	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-61	35	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	62	62	0	-	-	0.0	-	196	197	-	25275	98%	2%	0%
OLA104	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-65	-56	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	91	170	0	-	-	0.0	-	196	196	-	25275	98%	2%	0%

Start of Construction - 2030 S06_SBc Kennedy Road Denison Street Steeles Avenue

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	174	7928	0	-86	-86	2.0	7	196	209	209	25275	98%	2%	0%
OLA002	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	57	7854	0	-	-	0.0	-	196	207	-	25275	98%	2%	0%
OLA003	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	33	7829	0	-	-	0.0	-	196	207	-	25275	98%	2%	0%
OLA004	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	55	7734	0	-	-	0.0	-	196	207	-	25275	98%	2%	0%
OLA005	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	7694	0	-	-	0.0	-	196	208	-	25275	98%	2%	0%
OLA006	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	7663	0	-87	-86	2.1	6	196	207	207	25275	98%	2%	0%
OLA007	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	7662	0	-	-	0.0	-	196	208	-	25275	98%	2%	0%
OLA008	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	-87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	7592	0	-87	-87	2.0	12	196	207	207	25275	98%	2%	0%
OLA009	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	22	7587	0	-	-	0.0	-	196	207	-	25275	98%	2%	0%
OLA010	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	49	7492	0	-87	-86	1.9	8	196	206	206	25275	98%	2%	0%
OLA011	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	7490	0	-	-	0.0	-	196	206	-	25275	98%	2%	0%
OLA012	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	7404	0	-86	-86	2.4	7	196	204	204	25275	98%	2%	0%
OLA013	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	56	7346	0	-	-	0.0	-	196	204	-	25275	98%	2%	0%
OLA014	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	19	7327	0	-	-	0.0	-	196	203	-	25275	98%	2%	0%
OLA015	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	24	7248	0	-	-	0.0	-	196	202	-	25275	98%	2%	0%
OLA016	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	65	7201	0	-	-	0.0	-	196	200	-	25275	98%	2%	0%
OLA017	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-85	-84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	38	6967	0	-85	-84	1.9	7	196	196	196	25275	98%	2%	0%
OLA018	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-84	-84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	6932	0	-84	-84	1.9	2	196	196	196	25275	98%	2%	0%
OLA019	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-84	-84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	6894	0	-	-	0.0	-	196	197	-	25275	98%	2%	0%
OLA020	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-84	-84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	6798	0	-84	-84	2.0	8	196	197	197	25275	98%	2%	0%
OLA021	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-84	-83	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	69	6756	0	-	-	0.0	-	196	200	-	25275	98%	2%	0%
OLA022	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-81	-81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	6608	0	-81	-81	9.0	3	196	200	200	25275	98%	2%	0%
OLA023	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	73	6568	0	-	-	0.0	-	196	199	-	25275	98%	2%	0%
OLA024	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	6388	0	-	-	0.0	-	196	193	-	25275	98%	2%	0%
OLA025	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-82	-82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	37	6330	0	-82	-82	1.8	5	196	191	192	25275	98%	2%	0%
OLA026	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	53	5928	0	-	-	0.0	-	196	183	-	25275	98%	2%	0%
OLA027	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	-85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	49	5896	0	-86	-85	2.5	26	196	185	184	25275	98%	2%	0%
OLA028	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	5853	0	-	-	0.0	-	196	182	-	25275	98%	2%	0%
OLA029	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-76	-76	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	55	5838	0	-	-	0.0	-	196	185	-	25275	98%	2%	0%
OLA030	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-72	-71	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	51	5797	0	-	-	0.0	-	196	184	-	25275	98%	2%	0%
OLA031	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	5777	0	-	-	0.0	-	196	182	-	25275	98%	2%	0%
OLA032	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	65	5701	0	-	-	0.0	-	196	181	-	25275	98%	2%	0%
OLA033	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-52	-52	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	5717	0	-	-	0.0	-	196	182	-	25275	98%	2%	0%
OLA034	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	5695	0	-	-	0.0	-	196	182	-	25275	98%	2%	0%
OLA035	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	5628	0	-	-	0.0	-	196	182	-	25275	98%	2%	0%
OLA036	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-40	-40	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	5669	0	-	-	0.0	-	196	182	-	25275	98%	2%	0%
OLA037	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	5596	0	-	-	0.0	-	196	182	-	25275	98%	2%	0%
OLA038	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-30	-29	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	5631	0	-	-	0.0	-	196	182	-	25275	98%	2%	0%
OLA039	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	5565	0	-	-	0.0	-	196	181	-	25275	98%	2%	0%
OLA040	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-21	-20	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	5607	0	-	-	0.0	-	196	183	-	25275	98%	2%	0%
OLA041	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	36	5538	0	-	-	0.0	-	196	181	-	25275	98%	2%	0%
OLA042	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	5534	0	-	-	0.0	-	196	182	-	25275	98%	2%	0%
OLA043	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-15	-14	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	37	5593	0	-15	-14	1.8	12	196	183	182	25275	98%	2%	0%
OLA044	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	5520	0	-	-	0.0	-	196	182	-	25275	98%	2%	0%
OLA045	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	5506	0	-	-	0.0	-	196	183	-	25275	98%	2%	0%
OLA046	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-22	-21	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	39	5568	0	-	-	0.0	-	196	185	-	25275	98%	2%	0%
OLA047	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	5470	0	-	-	0.0	-	196	183	-	25275	98%	2%	0%
OLA048	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-42	-41	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	5493	0	-42	-41	2.0	10	196	184	184	25275	98%	2%	0%
OLA049	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-48	-47	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	5475	0	-48	-47	2.0	25	196	184	185	25275	98%	2%	0%
OLA050	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	5430	0	-	-	0.0	-	196	185	-	25275	98%	2%	0%
OLA051	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-54	-54	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	5422	0	-54	-54	2.0	11	196	184	185	25275	98%	2%	0%
OLA052	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	5382	0	-	-	0.0	-	196	185	-	25275	98%	2%	0%
OLA053	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-61	-61	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	5381	0	-61	-61	2.0	19	196	184	185	25275	98%	2%	0%
OLA054	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-72	-71	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	5330	0	-72	-71	2.0	12	196	184	186	25275	98%	2%	0%
OLA055	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	36	5321	0	-	-	0.0	-	196	185	-	25275	98%	2%	0%
OLA056	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-74	-73	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	5279	0	-74	-73	2.0	13	196	185	186	25275	98%	2%	0%
OLA057	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	37	5268	0	-	-	0.0	-	196	185	-	25275	98%	2%	0%
OLA058	67	0.0%	2 Manual	1 Typical Asphalt or Concrete	-74	-73	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	32	5226	0	-74	-73	2.0	10	196	185	186	25275	98%	2%	0%

OLA059	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	5206	0	-	-	0.0	-	196	185	-	25275	98%	2%	0%
OLA060	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	37	5175	0	-73	-73	1.8	15	196	186	186	25275	98%	2%	0%
OLA061	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	35	5132	0	-	-	0.0	-	196	184	-	25275	98%	2%	0%
OLA062	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	30	5119	0	-73	-72	1.8	7	196	186	185	25275	98%	2%	0%
OLA063	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	17	5076	0	-	-	0.0	-	196	185	-	25275	98%	2%	0%
OLA064	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-72	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	52	5078	0	-72	-72	1.8	6	196	186	185	25275	98%	2%	0%
OLA065	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	5000	0	-	-	0.0	-	196	183	-	25275	98%	2%	0%
OLA066	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	4945	0	-	-	0.0	-	196	183	-	25275	98%	2%	0%
OLA067	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-71	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	4910	0	-71	-70	1.8	14	196	181	182	25275	98%	2%	0%
OLA068	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	4865	0	-	-	0.0	-	196	180	-	25275	98%	2%	0%
OLA069	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-71	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	59	4840	0	-71	-70	1.8	31	196	181	180	25275	98%	2%	0%
OLA070	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-71	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	4791	0	-71	-70	1.8	17	196	179	178	25275	98%	2%	0%
OLA071	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	4776	0	-	-	0.0	-	196	178	-	25275	98%	2%	0%
OLA072	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	4711	0	-	-	0.0	-	196	177	-	25275	98%	2%	0%
OLA073	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-71	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	4709	0	-71	-70	1.9	10	196	177	177	25275	98%	2%	0%
OLA074	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	4630	0	-	-	0.0	-	196	176	-	25275	98%	2%	0%
OLA075	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-70	-69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	68	4626	0	-	-	0.0	-	196	175	-	25275	98%	2%	0%
OLA076	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	78	4562	0	-	-	0.0	-	196	175	-	25275	98%	2%	0%
OLA077	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	4325	0	89	90	6.0	3	196	174	174	25275	98%	2%	0%
OLA078	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-83	-82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	72	4319	0	-83	-82	6.0	3	196	172	172	25275	98%	2%	0%
OLA079	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	36	4244	0	-	-	0.0	-	196	175	-	25275	98%	2%	0%
OLA080	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	31	4248	0	-	-	0.0	-	196	174	-	25275	98%	2%	0%
OLA081	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	4193	0	-	-	0.0	-	196	175	-	25275	98%	2%	0%
OLA082	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-69	-68	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	3921	0	-69	-68	1.8	15	196	181	181	25275	98%	2%	0%
OLA083	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	3874	0	-73	-72	2.0	13	196	182	182	25275	98%	2%	0%
OLA084	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-79	-77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	3822	0	-79	-77	1.6	18	196	183	182	25275	98%	2%	0%
OLA085	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	34	3708	0	-	-	0.0	-	196	182	-	25275	98%	2%	0%
OLA086	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	77	2331	0	-	-	0.0	-	196	193	-	25275	98%	2%	0%
OLA087	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-76	-74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	2290	0	-	-	0.0	-	196	194	-	25275	98%	2%	0%
OLA088	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	84	2272	0	-	-	0.0	-	196	194	-	25275	98%	2%	0%
OLA089	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	2046	0	-	-	0.0	-	196	205	-	25275	98%	2%	0%
OLA090	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-74	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	81	2033	0	-	-	0.0	-	196	205	-	25275	98%	2%	0%
OLA091	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-70	-67	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	1669	0	-	-	0.0	-	196	203	-	25275	98%	2%	0%
OLA092	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-69	-65	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	1532	0	-69	-65	3.0	3	196	203	203	25275	98%	2%	0%
OLA093	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-69	-64	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	1445	0	-	-	0.0	-	196	202	-	25275	98%	2%	0%
OLA094	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-80	-74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	1291	0	-	-	0.0	-	196	202	-	25275	98%	2%	0%
OLA095	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	73	1228	0	-	-	0.0	-	196	202	-	25275	98%	2%	0%
OLA096	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	77	82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	91	1159	0	-	-	0.0	-	196	202	-	25275	98%	2%	0%
OLA097	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	33	1148	0	-	-	0.0	-	196	202	-	25275	98%	2%	0%
OLA098	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	1110	0	-	-	0.0	-	196	202	-	25275	98%	2%	0%
OLA099	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	47	962	0	-	-	0.0	-	196	201	-	25275	98%	2%	0%
OLA100	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	68	76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	473	0	68	76	2.2	7	196	202	202	25275	98%	2%	0%
OLA101	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	67	74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	402	0	67	74	2.1	6	196	201	201	25275	98%	2%	0%
OLA102	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	64	66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	69	217	0	64	66	6.0	3	196	198	198	25275	98%	2%	0%
OLA103	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	35	72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	62	76	0	65	72	6.0	3	196	197	197	25275	98%	2%	0%
OLA104	67	0.0%	2	Manual	1	Typical Asphalt or Concrete	-56	49	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	91	91	0	40	49	6.0	3	194	196	196	25275	98%	2%	0%

Start of Construction - 2030 AS01 Major Mackenzie Drive @ Kennedy Road

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	81	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	125	125	0	-90	85	2.0	10	209	209	209	12837	97%	2%	2%
OLA002	81	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	177	177	0	-90	85	2.0	6	206	207	207	12837	97%	2%	2%
OLA003	81	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	187	187	0	-89	85	6.0	3	204	207	207	12837	97%	2%	2%
OLA004	81	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	83	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	278	278	0	0	83	6.0	3	204	207	207	12837	97%	2%	2%
OLA005	81	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	83	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	322	322	0	-87	83	6.0	3	204	208	208	12837	97%	2%	2%
OLA006	81	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	364	364	0	-86	82	6.0	14	205	207	207	12837	97%	2%	2%
OLA007	81	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	353	353	0	-86	82	2.1	4	204	208	207	12837	97%	2%	2%
OLA008	81	0.0%	2 Manual	1 Typical Asphalt or Concrete	-85	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	435	435	0	-85	55	6.0	3	205	207	207	12837	97%	2%	2%
OLA009	81	0.0%	2 Manual	1 Typical Asphalt or Concrete	-85	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	430	430	0	-85	81	6.0	3	204	207	207	12837	97%	2%	2%

Start of Construction - 2030 AS02 16th Avenue @ Kennedy Road

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA024	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-84	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	415	415	0	-84	-30	3.0	3	184	193	193	28354	96%	2%	2%
OLA025	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-85	83	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	341	341	0	-85	83	6.0	3	186	191	191	28354	96%	2%	2%
OLA026	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	41	0	-	-	0.0	-	183	183	-	28354	96%	2%	2%
OLA027	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	93	93	0	20	88	6.0	3	184	185	185	28354	96%	2%	2%
OLA028	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	120	120	0	-90	-40	6.0	3	184	182	182	28354	96%	2%	2%
OLA029	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	153	153	0	0	87	6.0	3	184	185	185	28354	96%	2%	2%
OLA030	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	195	195	0	0	45	6.0	14	184	184	184	28354	96%	2%	2%
OLA031	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	196	196	0	-90	0	6.0	3	184	182	182	28354	96%	2%	2%
OLA032	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	83	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	272	272	0	-88	0	6.0	3	184	181	181	28354	96%	2%	2%
OLA033	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	279	279	0	30	85	6.0	3	185	182	182	28354	96%	2%	2%
OLA034	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	83	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	285	285	0	-	-	0.0	-	184	182	-	28354	96%	2%	2%
OLA035	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-85	83	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	360	360	0	-75	40	6.0	3	184	182	182	28354	96%	2%	2%
OLA036	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-85	84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	335	335	0	0	84	6.0	3	185	182	182	28354	96%	2%	2%
OLA037	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-84	83	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	403	403	0	-	-	0.0	-	185	182	-	28354	96%	2%	2%
OLA038	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-84	83	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	385	385	0	-15	83	6.0	3	186	182	182	28354	96%	2%	2%
OLA039	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-83	82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	443	443	0	-	-	0.0	-	185	181	-	28354	96%	2%	2%
OLA040	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-84	82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	422	422	0	-15	82	6.0	3	187	183	183	28354	96%	2%	2%
OLA041	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-83	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	484	484	0	-83	-55	6.0	3	186	181	181	28354	96%	2%	2%
OLA042	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-83	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	496	496	0	-	-	0.0	-	186	182	-	28354	96%	2%	2%
OLA043	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-84	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	449	449	0	-30	81	6.0	3	187	183	183	28354	96%	2%	2%
OLA046	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-83	80	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	499	499	0	-	-	0.0	-	188	185	-	28354	96%	2%	2%

Start of Construction - 2030 AS03 Highway 7 @ Kennedy Road

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA075	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-81	83	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	480	480	0	-81	0	6.0	3	173	175	175	36982	92%	4%	4%
OLA076	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-82	83	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	415	415	0	-82	-25	6.0	3	174	175	175	36982	92%	4%	4%
OLA077	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	234	234	0	-35	80	6.0	3	174	174	174	36982	92%	4%	4%
OLA078	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	194	194	0	-15	85	6.0	3	174	172	172	36982	92%	4%	4%
OLA079	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	157	157	0	30	86	6.0	50	174	175	175	36982	92%	4%	4%
OLA080	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	136	136	0	-89	17	1.7	30	174	174	174	36982	92%	4%	4%
OLA081	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	112	112	0	-20	87	3.0	26	175	175	175	36982	92%	4%	4%
OLA082	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	225	225	0	30	84	6.0	3	174	181	181	36982	92%	4%	4%
OLA083	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	83	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	271	271	0	-87	5	1.8	50	174	182	182	36982	92%	4%	4%
OLA084	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	325	325	0	-87	6	1.8	56	174	183	182	36982	92%	4%	4%
OLA085	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-85	80	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	427	427	0	-85	35	2.6	8	174	182	181	36982	92%	4%	4%

Start of Construction - 2030 AS04 Highway 407 @ Kennedy Road

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA086	100	0.0% 2	Manual 1	Typical Asphalt or Concrete	-80	82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95% 1	Absorptive Ground	1.50	449	449	0	-70	30	2.0	19	180	193	194	11832	85%	9%	7%
OLA087	100	0.0% 2	Manual 1	Typical Asphalt or Concrete	-80	82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95% 1	Absorptive Ground	1.50	485	485	0	-30	30	2.0	55	180	194	194	11832	85%	9%	7%

Start of Construction - 2030 AS05 14th Avenue @ Kennedy Road

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA086	69	0.0% 2	Manual 1	Typical Asphalt or Concrete	-85	80	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95% 1	Absorptive Ground	1.50	337	337	0	-85	15	6.0	3	204	193	193	28718	94%	3%	3%
OLA087	69	0.0% 2	Manual 1	Typical Asphalt or Concrete	-85	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95% 1	Absorptive Ground	1.50	301	301	0	-85	-30	6.0	3	204	194	194	28718	94%	3%	3%
OLA088	69	0.0% 2	Manual 1	Typical Asphalt or Concrete	-86	82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95% 1	Absorptive Ground	1.50	273	273	0	-86	-20	6.0	3	204	194	194	28718	94%	3%	3%
OLA089	69	0.0% 2	Manual 1	Typical Asphalt or Concrete	-90	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95% 1	Absorptive Ground	1.50	52	52	0	45	88	6.0	3	204	205	205	28718	94%	3%	3%
OLA090	69	0.0% 2	Manual 1	Typical Asphalt or Concrete	-90	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95% 1	Absorptive Ground	1.50	22	22	0	-90	-50	6.0	3	204	205	205	28718	94%	3%	3%
OLA091	69	0.0% 2	Manual 1	Typical Asphalt or Concrete	-81	84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95% 1	Absorptive Ground	1.50	348	348	0	-81	-40	6.0	3	204	203	203	28718	94%	3%	3%
OLA092	69	0.0% 2	Manual 1	Typical Asphalt or Concrete	-77	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95% 1	Absorptive Ground	1.50	491	491	0	-	-	0.0	-	204	203	-	28718	94%	3%	3%

Start of Construction - 2030 AS06 Denison Street @ Kennedy Road

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA093	69	0.0% 2	Manual 1	Typical Asphalt or Concrete	-90	42	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95% 1	Absorptive Ground	1.50	440	440	0	-65	10	6.0	29	201	202	201	6554	99%	1%	0%
OLA094	69	0.0% 2	Manual 1	Typical Asphalt or Concrete	-90	52	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95% 1	Absorptive Ground	1.50	292	292	0	-	-	0.0	-	201	202	-	6554	99%	1%	0%
OLA095	69	0.0% 2	Manual 1	Typical Asphalt or Concrete	-90	55	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95% 1	Absorptive Ground	1.50	230	230	0	10	55	6.0	3	201	202	202	6554	99%	1%	0%
OLA096	69	0.0% 2	Manual 1	Typical Asphalt or Concrete	-90	66	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95% 1	Absorptive Ground	1.50	149	149	0	-	-	0.0	-	202	202	-	6554	99%	1%	0%
OLA097	69	0.0% 2	Manual 1	Typical Asphalt or Concrete	-90	58	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95% 2	Reflective Ground	1.50	149	149	0	-90	58	1.8	5	201	202	201	6554	99%	1%	0%
OLA098	69	0.0% 2	Manual 1	Typical Asphalt or Concrete	-90	66	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95% 2	Reflective Ground	1.50	112	112	0	-90	66	1.8	4	201	202	202	6554	99%	1%	0%
OLA099	69	0.0% 2	Manual 1	Typical Asphalt or Concrete	-90	74	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95% 2	Reflective Ground	1.50	37	37	0	69	74	24.0	26	201	201	201	6554	99%	1%	0%

Start of Construction - 2030 AS07 Steeles Avenue @ Kennedy Road

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA102	50	0.0% 2	Manual 1	Typical Asphalt or Concrete	-81	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95% 1	Absorptive Ground	1.50	464	464	0	-15	81	6.0	3	193	198	198	39171	99%	0%	0%
OLA103	50	0.0% 2	Manual 1	Typical Asphalt or Concrete	-84	84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95% 1	Absorptive Ground	1.50	301	301	0	-10	84	6.0	3	193	197	197	39171	99%	0%	0%
OLA104	50	0.0% 2	Manual 1	Typical Asphalt or Concrete	-88	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95% 1	Absorptive Ground	1.50	108	108	0	-40	40	6.0	3	193	196	196	39171	99%	0%	0%

Mature State of Development - 2041 S01_NB Kennedy Road Major Mackenzie Drive 16th Avenue

POR	Posted Speed Limit (km/hr)	Road Grade (%)		Road Grade Mode		Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)		Topography		Wood Depth	No of Row of Houses	Density of 1st Row		Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	34	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	162	162	0	-86	34	2.0	7	206	209	209	27922	96%	2%	2%
OLA002	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	45	0	-60	75	6.0	3	206	207	207	27922	96%	2%	2%
OLA003	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	45	0	-77	88	2.0	4	206	207	206	27922	96%	2%	2%
OLA004	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	68	68	0	-77	45	6.0	3	206	207	207	27922	96%	2%	2%
OLA005	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	-83	88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	41	41	0	-83	88	2.2	5	206	208	207	27922	96%	2%	2%
OLA006	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	28	0	-89	86	2.1	6	207	207	207	27922	96%	2%	2%
OLA007	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	-83	88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	45	0	-83	88	2.1	5	207	208	207	27922	96%	2%	2%
OLA008	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	27	0	-90	86	2.0	12	207	207	207	27922	96%	2%	2%
OLA009	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	-85	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	35	35	0	-85	89	2.1	5	207	207	207	27922	96%	2%	2%
OLA010	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	36	36	0	-89	86	1.9	8	206	206	206	27922	96%	2%	2%
OLA011	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	-82	87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	75	75	0	-80	-45	9.0	3	206	206	206	27922	96%	2%	2%
OLA012	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	34	0	-89	87	2.4	7	205	204	204	27922	96%	2%	2%
OLA013	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	43	0	-65	87	6.0	3	204	204	204	27922	96%	2%	2%
OLA014	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	33	33	0	-87	88	2.0	4	203	203	203	27922	96%	2%	2%
OLA015	75	2.3%	2	Manual	1	Typical Asphalt or Concrete	-87	88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	37	37	0	-87	88	2.0	6	201	202	202	27922	96%	2%	2%
OLA016	75	2.3%	2	Manual	1	Typical Asphalt or Concrete	-84	87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	77	77	0	-	-	0.0	-	200	200	-	27922	96%	2%	2%
OLA017	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	-88	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	27	0	-88	90	1.9	7	195	196	196	27922	96%	2%	2%
OLA018	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	-88	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	30	0	-88	89	1.9	2	195	196	196	27922	96%	2%	2%
OLA019	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	53	0	-60	50	6.0	3	195	197	197	27922	96%	2%	2%
OLA020	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	-88	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	32	32	0	-88	89	2.0	8	196	197	197	27922	96%	2%	2%
OLA021	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	-85	88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	61	0	-60	50	6.0	3	197	200	200	27922	96%	2%	2%
OLA022	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	35	35	0	-81	20	9.0	3	201	200	200	27922	96%	2%	2%
OLA023	75	4.3%	2	Manual	1	Typical Asphalt or Concrete	-86	84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	86	86	0	-50	50	6.0	3	201	199	199	27922	96%	2%	2%
OLA024	75	4.3%	2	Manual	1	Typical Asphalt or Concrete	-88	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	40	0	-45	45	6.0	3	195	193	193	27922	96%	2%	2%
OLA025	75	4.3%	2	Manual	1	Typical Asphalt or Concrete	-82	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	28	0	-82	90	1.8	5	190	191	192	27922	96%	2%	2%
OLA026	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	-88	-36	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	66	80	0	-	-	0.0	-	184	183	-	27922	96%	2%	2%
OLA027	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	68	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	37	96	0	-	-	0.0	-	184	185	-	27922	96%	2%	2%
OLA028	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	-85	-67	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	131	0	-	-	0.0	-	184	182	-	27922	96%	2%	2%
OLA029	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	76	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	155	0	-	-	0.0	-	184	185	-	27922	96%	2%	2%
OLA030	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	88	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	197	0	-	-	0.0	-	184	184	-	27922	96%	2%	2%
OLA031	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	-76	-64	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	206	0	-	-	0.0	-	184	182	-	27922	96%	2%	2%
OLA032	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	-68	-60	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	74	280	0	-	-	0.0	-	184	181	-	27922	96%	2%	2%
OLA033	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	281	0	-	-	0.0	-	184	182	-	27922	96%	2%	2%
OLA034	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	-64	-63	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	286	0	-	-	0.0	-	184	182	-	27922	96%	2%	2%
OLA035	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	-57	-52	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	47	360	0	-57	-52	6.0	3	184	182	182	27922	96%	2%	2%
OLA036	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	340	0	-	-	0.0	-	184	182	-	27922	96%	2%	2%
OLA037	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	-53	-44	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	404	0	-	-	0.0	-	184	182	-	27922	96%	2%	2%
OLA038	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	398	0	-	-	0.0	-	184	182	-	27922	96%	2%	2%
OLA039	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	-52	-39	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	447	0	-	-	0.0	-	184	181	-	27922	96%	2%	2%
OLA040	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	24	447	0	-	-	0.0	-	184	183	-	27922	96%	2%	2%
OLA041	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	-45	-28	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	498	0	-	-	0.0	-	184	181	-	27922	96%	2%	2%
OLA042	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	-47	-28	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	516	0	-	-	0.0	-	184	182	-	27922	96%	2%	2%
OLA043	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	490	0	-	-	0.0	-	184	183	-	27922	96%	2%	2%
OLA044	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	-50	-29	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	41	558	0	-43	-29	1.8	9	184	182	182	27922	96%	2%	2%
OLA045	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	-59	-36	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	595	0	-	-	0.0	-	184	183	-	27922	96%	2%	2%
OLA046	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	570	0	-	-	0.0	-	184	185	-	27922	96%	2%	2%
OLA047	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	-71	-47	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	48	660	0	-71	-47	6.0	11	184	183	183	27922	96%	2%	2%
OLA048	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	32	716	0	-	-	0.0	-	184	184	-	27922	96%	2%	2%
OLA049	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	85	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	749	0	-	-	0.0	-	184	184	-	27922	96%	2%	2%
OLA050	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	-64	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	735	0	-	-	0.0	-	184	185	-	27922	96%	2%	2%
OLA051	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	76	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	24	803	0	76	83	2.0	11	184	184	185	27922	96%	2%	2%
OLA052	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	794	0	-	-	0.0	-	184	185	-	27922	96%	2%	2%
OLA053	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	69	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	32	856	0	69	76	2.0	19	184	184	185	27922	96%	2%	2%
OLA054	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	64	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	901	0	64	76	2.0	12	184	184	186	27922	96%	2%	2%
OLA055	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	857	0	-	-	0.0	-	184	185	-	27922	96%	2%	2%
OLA056	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	62	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	949	0	62	76	2.0	13	184	185	186	27922	96%	2%	2%
OLA057	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	908	0	-	-	0.0	-	184	185	-	27922	96%	2%	2%
OLA058	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	63	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	23	997	0	63	79	2.0	10	184	185	186	27922	96%	2%	2%

OLA059	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	969	0	-	-	0.0	-	184	185	-	27922	96%	2%	2%
OLA060	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	65	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	1048	0	65	85	1.8	15	184	186	186	27922	96%	2%	2%
OLA061	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	1039	0	-	-	0.0	-	184	184	-	27922	96%	2%	2%
OLA062	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	66	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	20	1097	0	66	85	1.8	7	184	186	185	27922	96%	2%	2%
OLA063	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	27	1106	0	-	-	0.0	-	184	185	-	27922	96%	2%	2%
OLA064	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	68	87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	1151	0	68	85	1.8	6	184	186	185	27922	96%	2%	2%
OLA065	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	34	1177	0	-	-	0.0	-	184	183	-	27922	96%	2%	2%
OLA066	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	47	1225	0	-	-	0.0	-	184	183	-	27922	96%	2%	2%
OLA067	75	2.5%	2	Manual	1	Typical Asphalt or Concrete	69	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	1319	0	69	85	1.8	14	184	181	182	27922	96%	2%	2%
OLA068	75	2.5%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	44	1308	0	-	-	0.0	-	184	180	-	27922	96%	2%	2%
OLA069	75	2.5%	2	Manual	1	Typical Asphalt or Concrete	70	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	1390	0	70	85	1.8	31	184	181	180	27922	96%	2%	2%
OLA070	75	2.5%	2	Manual	1	Typical Asphalt or Concrete	71	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	1430	0	71	85	1.8	17	184	179	178	27922	96%	2%	2%
OLA071	75	2.5%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	42	1399	0	-	-	0.0	-	184	178	-	27922	96%	2%	2%
OLA072	75	2.5%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	1463	0	-	-	0.0	-	184	177	-	27922	96%	2%	2%
OLA073	75	2.5%	2	Manual	1	Typical Asphalt or Concrete	72	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	1511	0	72	85	1.9	10	184	177	177	27922	96%	2%	2%
OLA074	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	55	1539	0	-	-	0.0	-	184	176	-	27922	96%	2%	2%
OLA075	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	61	74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	55	1608	0	-	-	0.0	-	184	175	-	27922	96%	2%	2%
OLA076	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	54	66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	65	1669	0	-	-	0.0	-	184	175	-	27922	96%	2%	2%
OLA077	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	35	1810	0	-	-	0.0	-	184	174	-	27922	96%	2%	2%
OLA078	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	66	75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	1865	0	-	-	0.0	-	184	172	-	27922	96%	2%	2%
OLA079	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	1883	0	-	-	0.0	-	184	175	-	27922	96%	2%	2%
OLA080	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	76	84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	1913	0	-	-	0.0	-	184	174	-	27922	96%	2%	2%
OLA081	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	67	1926	0	-	-	0.0	-	184	175	-	27922	96%	2%	2%
OLA082	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	83	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	2273	0	-	-	0.0	-	184	181	-	27922	96%	2%	2%
OLA083	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	80	86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	2316	0	80	86	2.0	13	184	182	182	27922	96%	2%	2%
OLA084	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	69	75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	32	2370	0	69	75	1.6	18	184	183	182	27922	96%	2%	2%
OLA085	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	51	57	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	2465	0	51	57	2.6	8	184	182	181	27922	96%	2%	2%
OLA086	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	66	3718	0	89	90	2.0	19	184	193	194	27922	96%	2%	2%
OLA087	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	50	3757	0	90	90	2.0	55	184	194	194	27922	96%	2%	2%
OLA088	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	73	3782	0	90	90	6.0	21	184	194	194	27922	96%	2%	2%
OLA089	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	4009	0	-	-	0.0	-	184	205	-	27922	96%	2%	2%
OLA090	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	69	4035	0	-	-	0.0	-	184	205	-	27922	96%	2%	2%
OLA091	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	4411	0	-	-	0.0	-	184	203	-	27922	96%	2%	2%
OLA092	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	4557	0	-	-	0.0	-	184	203	-	27922	96%	2%	2%
OLA093	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	88	88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	4655	0	88	88	1.7	17	184	202	201	27922	96%	2%	2%
OLA094	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	74	74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	4827	0	-	-	0.0	-	184	202	-	27922	96%	2%	2%
OLA095	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	71	71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	65	4897	0	-	-	0.0	-	184	202	-	27922	96%	2%	2%
OLA096	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	102	4886	0	-	-	0.0	-	184	202	-	27922	96%	2%	2%
OLA097	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	59	59	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	4948	0	59	59	1.8	5	184	202	201	27922	96%	2%	2%
OLA098	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	59	59	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	4992	0	59	59	1.8	4	184	202	202	27922	96%	2%	2%
OLA099	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	60	60	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	5115	0	-	-	0.0	-	184	201	-	27922	96%	2%	2%
OLA100	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	5519	0	-	-	0.0	-	184	202	-	27922	96%	2%	2%
OLA101	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	5585	0	-	-	0.0	-	184	201	-	27922	96%	2%	2%
OLA102	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	82	5770	0	-	-	0.0	-	184	198	-	27922	96%	2%	2%
OLA103	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	-88	-87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	74	5940	0	-	-	0.0	-	184	197	-	27922	96%	2%	2%
OLA104	75	0.0%	2	Manual	1	Typical Asphalt or Concrete	-79	-77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	102	6138	0	-	-	0.0	-	184	196	-	27922	96%	2%	2%

Mature State of Development - 2041 S02_NBa Kennedy Road 16th Avenue Highway 7

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode		Road Pavement		Angle 1 (degrees)	Angle 2 (degrees)	Topography		Wood Depth		No of Row of Houses	Density of 1st Row	Intermediate Surface		Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	162	1948	0	-87	-86	2.0	7	184	209	209	27432	95%	3%	3%
OLA002	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	1878	0	-	-	0.0	-	184	207	-	27432	95%	3%	3%
OLA003	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	87	88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	1859	0	87	88	2.0	4	184	207	206	27432	95%	3%	3%
OLA004	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	87	87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	68	1766	0	-	-	0.0	-	184	207	-	27432	95%	3%	3%
OLA005	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	87	88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	41	1723	0	87	88	2.2	5	184	208	207	27432	95%	3%	3%
OLA006	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	1687	0	-90	-89	2.1	6	184	207	207	27432	95%	3%	3%
OLA007	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	88	88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	1691	0	88	88	2.1	5	184	208	207	27432	95%	3%	3%
OLA008	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	1616	0	-	-	0.0	-	184	207	-	27432	95%	3%	3%
OLA009	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	88	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	35	1615	0	88	89	2.1	5	184	207	207	27432	95%	3%	3%
OLA010	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	36	1515	0	-90	-89	1.9	8	184	206	206	27432	95%	3%	3%
OLA011	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	86	87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	75	1523	0	-	-	0.0	-	184	206	-	27432	95%	3%	3%
OLA012	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	1427	0	-90	-89	2.4	7	184	204	204	27432	95%	3%	3%
OLA013	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	1368	0	-	-	0.0	-	184	204	-	27432	95%	3%	3%
OLA014	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	87	88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	33	1355	0	87	88	2.0	4	184	203	203	27432	95%	3%	3%
OLA015	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	88	88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	37	1276	0	88	88	2.0	6	184	202	202	27432	95%	3%	3%
OLA016	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	86	87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	77	1234	0	-	-	0.0	-	184	200	-	27432	95%	3%	3%
OLA017	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	-88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	989	0	-89	-88	1.9	7	184	196	196	27432	95%	3%	3%
OLA018	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	953	0	-90	-88	1.9	2	184	196	196	27432	95%	3%	3%
OLA019	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-88	-86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	914	0	-	-	0.0	-	184	197	-	27432	95%	3%	3%
OLA020	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	32	819	0	-90	-88	2.0	8	184	197	197	27432	95%	3%	3%
OLA021	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	775	0	-	-	0.0	-	184	200	-	27432	95%	3%	3%
OLA022	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-83	-81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	35	628	0	-83	-81	9.0	3	184	200	200	27432	95%	3%	3%
OLA023	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	84	84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	86	601	0	-	-	0.0	-	184	199	-	27432	95%	3%	3%
OLA024	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	85	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	415	0	-	-	0.0	-	184	193	-	27432	95%	3%	3%
OLA025	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	349	0	-87	-82	1.8	5	184	191	192	27432	95%	3%	3%
OLA026	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-36	66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	66	66	0	55	66	6.0	3	184	183	183	27432	95%	3%	3%
OLA027	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	68	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	37	37	0	-86	-13	2.5	26	184	185	184	27432	95%	3%	3%
OLA028	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-67	65	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	44	0	-	-	0.0	-	183	182	-	27432	95%	3%	3%
OLA029	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	44	0	-67	60	2.5	33	183	185	184	27432	95%	3%	3%
OLA030	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-51	88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	43	0	-40	60	6.0	3	182	184	184	27432	95%	3%	3%
OLA031	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-64	46	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	53	0	-	-	0.0	-	182	182	-	27432	95%	3%	3%
OLA032	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-60	-5	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	74	74	0	-	-	0.0	-	181	181	-	27432	95%	3%	3%
OLA033	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	65	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	51	0	-	-	0.0	-	181	182	-	27432	95%	3%	3%
OLA034	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-63	-29	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	51	0	-	-	0.0	-	181	182	-	27432	95%	3%	3%
OLA035	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-57	-57	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	47	114	0	-57	-57	6.0	3	181	182	182	27432	95%	3%	3%
OLA036	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	112	0	-	-	0.0	-	181	182	-	27432	95%	3%	3%
OLA037	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-62	-53	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	161	0	-	-	0.0	-	181	182	-	27432	95%	3%	3%
OLA038	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	177	0	-	-	0.0	-	181	182	-	27432	95%	3%	3%
OLA039	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-63	-52	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	209	0	-	-	0.0	-	181	181	-	27432	95%	3%	3%
OLA040	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	24	234	0	-	-	0.0	-	181	183	-	27432	95%	3%	3%
OLA041	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-58	-45	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	267	0	-	-	0.0	-	181	181	-	27432	95%	3%	3%
OLA042	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-62	-47	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	291	0	-	-	0.0	-	181	182	-	27432	95%	3%	3%
OLA043	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	287	0	-	-	0.0	-	181	183	-	27432	95%	3%	3%
OLA044	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-66	-50	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	41	342	0	-	-	0.0	-	181	182	-	27432	95%	3%	3%
OLA045	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-59	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	384	0	-	-	0.0	-	181	183	-	27432	95%	3%	3%
OLA046	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	379	0	-	-	0.0	-	181	185	-	27432	95%	3%	3%
OLA047	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-85	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	48	452	0	-85	-71	6.0	11	181	183	183	27432	95%	3%	3%
OLA048	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	76	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	32	528	0	-	-	0.0	-	181	184	-	27432	95%	3%	3%
OLA049	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	71	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	561	0	-	-	0.0	-	181	184	-	27432	95%	3%	3%
OLA050	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	531	0	-	-	0.0	-	181	185	-	27432	95%	3%	3%
OLA051	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	64	76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	24	607	0	64	76	2.0	11	181	184	185	27432	95%	3%	3%
OLA052	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	586	0	-	-	0.0	-	181	185	-	27432	95%	3%	3%
OLA053	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	58	69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	32	658	0	58	69	2.0	19	181	184	185	27432	95%	3%	3%
OLA054	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	54	64	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	698	0	54	64	2.0	12	181	184	186	27432	95%	3%	3%
OLA055	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	645	0	-	-	0.0	-	181	185	-	27432	95%	3%	3%
OLA056	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	53	62	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	741	0	53	62	2.0	13	181	185	186	27432	95%	3%	3%
OLA057	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	691	0	-	-	0.0	-	181	185	-	27432	95%	3%	3%
OLA058	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	55	63	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	23	784	0	55	63	2.0	10	181	185	186	27432	95%	3%	3%

OLA059	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	749	0	-	-	0.0	-	181	185	-	27432	95%	3%	3%
OLA060	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	58	65	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	832	0	58	65	1.8	15	181	186	186	27432	95%	3%	3%
OLA061	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	814	0	-	-	0.0	-	181	184	-	27432	95%	3%	3%
OLA062	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	60	66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	20	877	0	60	66	1.8	7	181	186	185	27432	95%	3%	3%
OLA063	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	27	880	0	-	-	0.0	-	181	185	-	27432	95%	3%	3%
OLA064	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	62	68	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	931	0	62	68	1.8	6	181	186	185	27432	95%	3%	3%
OLA065	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	34	948	0	-	-	0.0	-	181	183	-	27432	95%	3%	3%
OLA066	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	47	994	0	-	-	0.0	-	181	183	-	27432	95%	3%	3%
OLA067	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	65	69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	1092	0	65	69	1.8	14	181	181	182	27432	95%	3%	3%
OLA068	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	44	1075	0	-	-	0.0	-	181	180	-	27432	95%	3%	3%
OLA069	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	66	70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	1161	0	66	70	1.8	31	181	181	180	27432	95%	3%	3%
OLA070	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	68	71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	1199	0	68	71	1.8	17	181	179	178	27432	95%	3%	3%
OLA071	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	42	1164	0	-	-	0.0	-	181	178	-	27432	95%	3%	3%
OLA072	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	1227	0	-	-	0.0	-	181	177	-	27432	95%	3%	3%
OLA073	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	68	72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	1278	0	68	72	1.9	10	181	177	177	27432	95%	3%	3%
OLA074	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	55	1302	0	-	-	0.0	-	181	176	-	27432	95%	3%	3%
OLA075	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	58	61	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	55	1375	0	-	-	0.0	-	181	175	-	27432	95%	3%	3%
OLA076	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	51	54	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	65	1435	0	-	-	0.0	-	181	175	-	27432	95%	3%	3%
OLA077	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	35	1568	0	-	-	0.0	-	181	174	-	27432	95%	3%	3%
OLA078	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	64	66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	1624	0	-	-	0.0	-	181	172	-	27432	95%	3%	3%
OLA079	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	1640	0	-	-	0.0	-	181	175	-	27432	95%	3%	3%
OLA080	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	75	76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	1671	0	-	-	0.0	-	181	174	-	27432	95%	3%	3%
OLA081	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	67	1682	0	-	-	0.0	-	181	175	-	27432	95%	3%	3%
OLA082	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	82	83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	2031	0	-	-	0.0	-	181	181	-	27432	95%	3%	3%
OLA083	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	79	80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	2073	0	79	80	2.0	13	181	182	182	27432	95%	3%	3%
OLA084	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	68	69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	32	2127	0	68	69	1.6	18	181	183	182	27432	95%	3%	3%
OLA085	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	50	51	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	2220	0	50	51	2.6	8	181	182	181	27432	95%	3%	3%
OLA086	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	66	3473	0	89	90	2.0	19	181	193	194	27432	95%	3%	3%
OLA087	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	50	3511	0	90	90	2.0	55	181	194	194	27432	95%	3%	3%
OLA088	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	73	3537	0	90	90	6.0	21	181	194	194	27432	95%	3%	3%
OLA089	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	3764	0	-	-	0.0	-	181	205	-	27432	95%	3%	3%
OLA090	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	69	3789	0	-	-	0.0	-	181	205	-	27432	95%	3%	3%
OLA091	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	4166	0	-	-	0.0	-	181	203	-	27432	95%	3%	3%
OLA092	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	4312	0	-	-	0.0	-	181	203	-	27432	95%	3%	3%
OLA093	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	88	88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	4410	0	88	88	1.7	17	181	202	201	27432	95%	3%	3%
OLA094	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	74	74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	4582	0	-	-	0.0	-	181	202	-	27432	95%	3%	3%
OLA095	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	71	71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	65	4652	0	-	-	0.0	-	181	202	-	27432	95%	3%	3%
OLA096	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	102	4642	0	-	-	0.0	-	181	202	-	27432	95%	3%	3%
OLA097	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	59	59	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	4703	0	59	59	1.8	5	181	202	201	27432	95%	3%	3%
OLA098	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	59	59	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	4748	0	59	59	1.8	4	181	202	202	27432	95%	3%	3%
OLA099	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	60	60	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	4870	0	-	-	0.0	-	181	201	-	27432	95%	3%	3%
OLA100	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	5277	0	-	-	0.0	-	181	202	-	27432	95%	3%	3%
OLA101	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	5343	0	-	-	0.0	-	181	201	-	27432	95%	3%	3%
OLA102	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	82	5529	0	-	-	0.0	-	181	198	-	27432	95%	3%	3%
OLA103	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	74	5699	0	-	-	0.0	-	181	197	-	27432	95%	3%	3%
OLA104	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	102	5897	0	-	-	0.0	-	181	196	-	27432	95%	3%	3%

Mature State of Development - 2041 S02_NBb Kennedy Road 16th Avenue Highway 7

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode		Road Pavement		Angle 1 (degrees)	Angle 2 (degrees)	Topography		Wood Depth		No of Row of Houses	Density of 1st Row	Intermediate Surface		Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	162	2190	0	-90	-87	2.0	7	181	209	209	27432	95%	3%	3%
OLA002	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	2122	0	-	-	0.0	-	181	207	-	27432	95%	3%	3%
OLA003	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	82	87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	2105	0	82	87	2.0	4	181	207	206	27432	95%	3%	3%
OLA004	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	81	87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	68	2012	0	-	-	0.0	-	181	207	-	27432	95%	3%	3%
OLA005	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	81	87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	41	1968	0	81	87	2.2	5	181	208	207	27432	95%	3%	3%
OLA006	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	1932	0	-	-	0.0	-	181	207	-	27432	95%	3%	3%
OLA007	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	82	88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	1937	0	82	88	2.1	5	181	208	207	27432	95%	3%	3%
OLA008	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	1861	0	-	-	0.0	-	181	207	-	27432	95%	3%	3%
OLA009	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	82	88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	35	1861	0	82	88	2.1	5	181	207	207	27432	95%	3%	3%
OLA010	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	36	1760	0	-	-	0.0	-	181	206	-	27432	95%	3%	3%
OLA011	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	80	86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	75	1769	0	-	-	0.0	-	181	206	-	27432	95%	3%	3%
OLA012	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	1671	0	-	-	0.0	-	181	204	-	27432	95%	3%	3%
OLA013	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	1612	0	-	-	0.0	-	181	204	-	27432	95%	3%	3%
OLA014	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	80	87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	33	1601	0	80	87	2.0	4	181	203	203	27432	95%	3%	3%
OLA015	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	80	88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	37	1522	0	80	88	2.0	6	181	202	202	27432	95%	3%	3%
OLA016	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	79	86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	77	1480	0	-	-	0.0	-	181	200	-	27432	95%	3%	3%
OLA017	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	1233	0	-90	-89	1.9	7	181	196	196	27432	95%	3%	3%
OLA018	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	1198	0	-90	-90	1.9	2	181	196	196	27432	95%	3%	3%
OLA019	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	1158	0	-	-	0.0	-	181	197	-	27432	95%	3%	3%
OLA020	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	32	1063	0	-90	-90	2.0	8	181	197	197	27432	95%	3%	3%
OLA021	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	1018	0	-	-	0.0	-	181	200	-	27432	95%	3%	3%
OLA022	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	35	871	0	-90	-83	9.0	3	181	200	200	27432	95%	3%	3%
OLA023	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	73	84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	86	847	0	-	-	0.0	-	181	199	-	27432	95%	3%	3%
OLA024	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	72	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	661	0	-	-	0.0	-	181	193	-	27432	95%	3%	3%
OLA025	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	593	0	-90	-87	1.8	5	181	191	192	27432	95%	3%	3%
OLA026	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	52	66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	66	218	0	55	66	6.0	3	181	183	183	27432	95%	3%	3%
OLA027	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	37	156	0	-89	-86	2.5	26	181	185	184	27432	95%	3%	3%
OLA028	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	51	65	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	139	0	-	-	0.0	-	181	182	-	27432	95%	3%	3%
OLA029	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	99	0	-	-	0.0	-	181	185	-	27432	95%	3%	3%
OLA030	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-51	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	61	0	-	-	0.0	-	181	184	-	27432	95%	3%	3%
OLA031	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	46	53	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	83	0	-	-	0.0	-	181	182	-	27432	95%	3%	3%
OLA032	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-5	52	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	74	74	0	-	-	0.0	-	181	181	-	27432	95%	3%	3%
OLA033	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	65	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	26	0	-	-	0.0	-	181	182	-	27432	95%	3%	3%
OLA034	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-29	59	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	44	0	30	59	6.0	3	181	182	182	27432	95%	3%	3%
OLA035	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-57	63	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	47	47	0	-57	-15	6.0	3	181	182	182	27432	95%	3%	3%
OLA036	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	26	0	-	-	0.0	-	181	182	-	27432	95%	3%	3%
OLA037	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-62	66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	40	0	-	-	0.0	-	181	182	-	27432	95%	3%	3%
OLA038	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	25	0	-	-	0.0	-	181	182	-	27432	95%	3%	3%
OLA039	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-63	62	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	44	0	-	-	0.0	-	181	181	-	27432	95%	3%	3%
OLA040	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-72	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	24	24	0	-	-	0.0	-	181	183	-	27432	95%	3%	3%
OLA041	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-58	57	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	46	0	-	-	0.0	-	182	181	-	27432	95%	3%	3%
OLA042	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-62	45	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	42	0	35	45	6.0	3	182	182	182	27432	95%	3%	3%
OLA043	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-37	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	26	0	-37	-4	1.8	12	182	183	182	27432	95%	3%	3%
OLA044	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-66	-20	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	41	43	0	-43	-20	1.8	9	182	182	182	27432	95%	3%	3%
OLA045	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-60	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	74	0	-	-	0.0	-	182	183	-	27432	95%	3%	3%
OLA046	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	67	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	79	0	-	-	0.0	-	182	185	-	27432	95%	3%	3%
OLA047	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-85	-79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	48	141	0	-85	-79	6.0	11	182	183	183	27432	95%	3%	3%
OLA048	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	68	76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	32	219	0	-	-	0.0	-	182	184	-	27432	95%	3%	3%
OLA049	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	65	71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	251	0	-	-	0.0	-	182	184	-	27432	95%	3%	3%
OLA050	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	218	0	-	-	0.0	-	182	185	-	27432	95%	3%	3%
OLA051	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	63	64	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	24	295	0	63	64	2.0	11	182	184	185	27432	95%	3%	3%
OLA052	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	275	0	-	-	0.0	-	182	185	-	27432	95%	3%	3%
OLA053	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	58	58	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	32	345	0	58	58	2.0	19	182	184	185	27432	95%	3%	3%
OLA054	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	54	57	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	386	0	54	57	2.0	12	182	184	186	27432	95%	3%	3%
OLA055	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	337	0	-	-	0.0	-	182	185	-	27432	95%	3%	3%
OLA056	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	53	57	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	431	0	53	57	2.0	13	182	185	186	27432	95%	3%	3%
OLA057	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	387	0	-	-	0.0	-	182	185	-	27432	95%	3%	3%
OLA058	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	55	61	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	23	476	0	55	61	2.0	10	182	185	186	27432	95%	3%	3%

OLA059	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	449	0	-	-	0.0	-	182	185	-	27432	95%	3%	3%
OLA060	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	58	64	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	527	0	58	64	1.8	15	182	186	186	27432	95%	3%	3%
OLA061	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	520	0	-	-	0.0	-	182	184	-	27432	95%	3%	3%
OLA062	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	60	67	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	20	576	0	60	67	1.8	7	182	186	185	27432	95%	3%	3%
OLA063	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	27	587	0	-	-	0.0	-	182	185	-	27432	95%	3%	3%
OLA064	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	62	68	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	630	0	62	68	1.8	6	182	186	185	27432	95%	3%	3%
OLA065	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	34	660	0	-	-	0.0	-	182	183	-	27432	95%	3%	3%
OLA066	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	47	709	0	-	-	0.0	-	182	183	-	27432	95%	3%	3%
OLA067	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	65	71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	799	0	65	71	1.8	14	182	181	182	27432	95%	3%	3%
OLA068	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	44	794	0	-	-	0.0	-	182	180	-	27432	95%	3%	3%
OLA069	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	66	73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	871	0	66	73	1.8	31	182	181	180	27432	95%	3%	3%
OLA070	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	68	74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	913	0	68	74	1.8	17	182	179	178	27432	95%	3%	3%
OLA071	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	42	886	0	-	-	0.0	-	182	178	-	27432	95%	3%	3%
OLA072	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	953	0	-	-	0.0	-	182	177	-	27432	95%	3%	3%
OLA073	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	68	75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	995	0	68	75	1.9	10	182	177	177	27432	95%	3%	3%
OLA074	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	55	1031	0	-	-	0.0	-	182	176	-	27432	95%	3%	3%
OLA075	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	58	64	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	55	1093	0	-	-	0.0	-	182	175	-	27432	95%	3%	3%
OLA076	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	51	58	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	65	1155	0	-	-	0.0	-	182	175	-	27432	95%	3%	3%
OLA077	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	35	1314	0	-	-	0.0	-	182	174	-	27432	95%	3%	3%
OLA078	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	64	71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	1361	0	-	-	0.0	-	182	172	-	27432	95%	3%	3%
OLA079	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	1391	0	-	-	0.0	-	182	175	-	27432	95%	3%	3%
OLA080	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	75	81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	1414	0	-	-	0.0	-	182	174	-	27432	95%	3%	3%
OLA081	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	67	1436	0	-	-	0.0	-	182	175	-	27432	95%	3%	3%
OLA082	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	82	87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	1776	0	-	-	0.0	-	182	181	-	27432	95%	3%	3%
OLA083	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	79	84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	1821	0	79	84	2.0	13	182	182	182	27432	95%	3%	3%
OLA084	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	68	73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	32	1875	0	68	73	1.6	18	182	183	182	27432	95%	3%	3%
OLA085	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	50	56	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	1974	0	50	56	2.6	8	182	182	181	27432	95%	3%	3%
OLA086	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	66	3270	0	90	90	2.0	19	182	193	194	27432	95%	3%	3%
OLA087	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	50	3309	0	-	-	0.0	-	182	194	-	27432	95%	3%	3%
OLA088	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	73	3333	0	90	90	6.0	21	182	194	194	27432	95%	3%	3%
OLA089	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	3562	0	-	-	0.0	-	182	205	-	27432	95%	3%	3%
OLA090	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	69	3585	0	-	-	0.0	-	182	205	-	27432	95%	3%	3%
OLA091	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	3963	0	-	-	0.0	-	182	203	-	27432	95%	3%	3%
OLA092	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	4109	0	-	-	0.0	-	182	203	-	27432	95%	3%	3%
OLA093	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	88	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	4207	0	88	90	1.7	17	182	202	201	27432	95%	3%	3%
OLA094	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	74	77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	4379	0	-	-	0.0	-	182	202	-	27432	95%	3%	3%
OLA095	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	71	74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	65	4449	0	-	-	0.0	-	182	202	-	27432	95%	3%	3%
OLA096	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	102	4448	0	-	-	0.0	-	182	202	-	27432	95%	3%	3%
OLA097	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	59	62	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	4504	0	59	62	1.8	5	182	202	201	27432	95%	3%	3%
OLA098	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	59	62	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	4548	0	59	62	1.8	4	182	202	202	27432	95%	3%	3%
OLA099	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	60	63	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	4675	0	-	-	0.0	-	182	201	-	27432	95%	3%	3%
OLA100	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	5096	0	-	-	0.0	-	182	202	-	27432	95%	3%	3%
OLA101	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	5164	0	-	-	0.0	-	182	201	-	27432	95%	3%	3%
OLA102	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	82	5356	0	-	-	0.0	-	182	198	-	27432	95%	3%	3%
OLA103	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	-84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	74	5526	0	-	-	0.0	-	182	197	-	27432	95%	3%	3%
OLA104	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	102	5724	0	-	-	0.0	-	182	196	-	27432	95%	3%	3%

Mature State of Development - 2041 S02_NBc Kennedy Road 16th Avenue Highway 7

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode		Road Pavement		Angle 1 (degrees)	Angle 2 (degrees)	Topography		Wood Depth		No of Row of Houses	Density of 1st Row	Intermediate Surface		Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	162	2396	0	-	-	0.0	-	182	209	-	27432	95%	3%	3%
OLA002	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	2340	0	-	-	0.0	-	182	207	-	27432	95%	3%	3%
OLA003	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	78	82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	2331	0	78	82	2.0	4	182	207	206	27432	95%	3%	3%
OLA004	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	77	81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	68	2241	0	-	-	0.0	-	182	207	-	27432	95%	3%	3%
OLA005	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	77	81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	41	2196	0	77	81	2.2	5	182	208	207	27432	95%	3%	3%
OLA006	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	2152	0	-	-	0.0	-	182	207	-	27432	95%	3%	3%
OLA007	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	77	82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	2165	0	77	82	2.1	5	182	208	207	27432	95%	3%	3%
OLA008	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	2082	0	-	-	0.0	-	182	207	-	27432	95%	3%	3%
OLA009	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	78	82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	35	2089	0	78	82	2.1	5	182	207	207	27432	95%	3%	3%
OLA010	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	36	1980	0	-	-	0.0	-	182	206	-	27432	95%	3%	3%
OLA011	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	75	80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	75	2003	0	-	-	0.0	-	182	206	-	27432	95%	3%	3%
OLA012	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	1893	0	-	-	0.0	-	182	204	-	27432	95%	3%	3%
OLA013	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	1833	0	-	-	0.0	-	182	204	-	27432	95%	3%	3%
OLA014	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	75	80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	33	1832	0	75	80	2.0	4	182	203	203	27432	95%	3%	3%
OLA015	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	75	80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	37	1754	0	75	80	2.0	6	182	202	202	27432	95%	3%	3%
OLA016	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	74	79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	77	1718	0	-	-	0.0	-	182	200	-	27432	95%	3%	3%
OLA017	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	1460	0	-	-	0.0	-	182	196	-	27432	95%	3%	3%
OLA018	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	1425	0	-	-	0.0	-	182	196	-	27432	95%	3%	3%
OLA019	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	1381	0	-	-	0.0	-	182	197	-	27432	95%	3%	3%
OLA020	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	32	1292	0	-	-	0.0	-	182	197	-	27432	95%	3%	3%
OLA021	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	1242	0	-	-	0.0	-	182	200	-	27432	95%	3%	3%
OLA022	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	35	1100	0	-	-	0.0	-	182	200	-	27432	95%	3%	3%
OLA023	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	67	73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	86	1101	0	-	-	0.0	-	182	199	-	27432	95%	3%	3%
OLA024	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	65	72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	916	0	-	-	0.0	-	182	193	-	27432	95%	3%	3%
OLA025	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	832	0	-	-	0.0	-	182	191	-	27432	95%	3%	3%
OLA026	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	48	52	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	66	519	0	-	-	0.0	-	182	183	-	27432	95%	3%	3%
OLA027	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	37	426	0	-	-	0.0	-	182	185	-	27432	95%	3%	3%
OLA028	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	49	51	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	446	0	-	-	0.0	-	182	182	-	27432	95%	3%	3%
OLA029	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	371	0	-	-	0.0	-	182	185	-	27432	95%	3%	3%
OLA030	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	335	0	-	-	0.0	-	182	184	-	27432	95%	3%	3%
OLA031	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	53	54	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	395	0	-	-	0.0	-	182	182	-	27432	95%	3%	3%
OLA032	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	52	56	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	74	348	0	-	-	0.0	-	182	181	-	27432	95%	3%	3%
OLA033	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	263	0	-	-	0.0	-	182	182	-	27432	95%	3%	3%
OLA034	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	59	63	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	311	0	59	63	6.0	3	182	182	182	27432	95%	3%	3%
OLA035	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	63	72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	47	240	0	-	-	0.0	-	182	182	-	27432	95%	3%	3%
OLA036	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	201	0	-	-	0.0	-	182	182	-	27432	95%	3%	3%
OLA037	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	66	80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	187	0	-	-	0.0	-	182	182	-	27432	95%	3%	3%
OLA038	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	-87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	137	0	-	-	0.0	-	182	182	-	27432	95%	3%	3%
OLA039	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	62	84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	141	0	-	-	0.0	-	182	181	-	27432	95%	3%	3%
OLA040	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	24	79	0	-	-	0.0	-	182	183	-	27432	95%	3%	3%
OLA041	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	57	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	85	0	-	-	0.0	-	182	181	-	27432	95%	3%	3%
OLA042	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	45	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	59	0	45	90	6.0	3	182	182	182	27432	95%	3%	3%
OLA043	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-69	-37	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	32	0	-47	-37	1.8	12	182	183	182	27432	95%	3%	3%
OLA044	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-20	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	41	41	0	-20	5	1.8	9	182	182	182	27432	95%	3%	3%
OLA045	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-60	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	42	0	-	-	0.0	-	183	183	-	27432	95%	3%	3%
OLA046	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-65	67	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	27	0	-65	-45	6.0	3	183	185	185	27432	95%	3%	3%
OLA047	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-79	82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	48	48	0	-79	-40	6.0	11	184	183	183	27432	95%	3%	3%
OLA048	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-58	68	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	32	32	0	-58	-17	2.0	10	184	184	184	27432	95%	3%	3%
OLA049	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-40	65	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	38	0	-40	61	2.0	25	185	184	185	27432	95%	3%	3%
OLA050	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	54	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	36	0	-	-	0.0	-	184	185	-	27432	95%	3%	3%
OLA051	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	36	63	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	24	29	0	36	63	2.0	11	185	184	185	27432	95%	3%	3%
OLA052	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-29	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	45	0	-	-	0.0	-	185	185	-	27432	95%	3%	3%
OLA053	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	58	60	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	32	76	0	58	60	2.0	19	185	184	185	27432	95%	3%	3%
OLA054	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	57	70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	121	0	57	70	2.0	12	185	184	186	27432	95%	3%	3%
OLA055	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	102	0	-	-	0.0	-	185	185	-	27432	95%	3%	3%
OLA056	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	57	73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	172	0	57	73	2.0	13	185	185	186	27432	95%	3%	3%
OLA057	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	156	0	-	-	0.0	-	185	185	-	27432	95%	3%	3%
OLA058	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	61	78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	23	225	0	61	78	2.0	10	185	185	186	27432	95%	3%	3%

OLA059	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	221	0	-	-	0.0	-	185	185	-	27432	95%	3%	3%
OLA060	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	64	80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	280	0	64	80	1.8	15	185	186	186	27432	95%	3%	3%
OLA061	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	297	0	-	-	0.0	-	185	184	-	27432	95%	3%	3%
OLA062	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	67	82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	20	335	0	67	82	1.8	7	185	186	185	27432	95%	3%	3%
OLA063	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	27	361	0	-	-	0.0	-	185	185	-	27432	95%	3%	3%
OLA064	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	68	82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	387	0	68	82	1.8	6	185	186	185	27432	95%	3%	3%
OLA065	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	34	439	0	-	-	0.0	-	185	183	-	27432	95%	3%	3%
OLA066	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	47	494	0	-	-	0.0	-	185	183	-	27432	95%	3%	3%
OLA067	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	71	83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	565	0	71	83	1.8	14	185	181	182	27432	95%	3%	3%
OLA068	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	44	580	0	-90	-89	6.0	3	185	180	180	27432	95%	3%	3%
OLA069	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	73	83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	640	0	73	83	1.8	31	185	181	180	27432	95%	3%	3%
OLA070	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	74	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	686	0	74	85	1.8	17	185	179	178	27432	95%	3%	3%
OLA071	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	42	673	0	-	-	0.0	-	185	178	-	27432	95%	3%	3%
OLA072	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	741	0	-	-	0.0	-	185	177	-	27432	95%	3%	3%
OLA073	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	75	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	771	0	75	85	1.9	10	185	177	177	27432	95%	3%	3%
OLA074	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	55	823	0	-	-	0.0	-	185	176	-	27432	95%	3%	3%
OLA075	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	64	73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	55	868	0	-	-	0.0	-	185	175	-	27432	95%	3%	3%
OLA076	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	58	66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	65	933	0	-	-	0.0	-	185	175	-	27432	95%	3%	3%
OLA077	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	35	1122	0	-	-	0.0	-	185	174	-	27432	95%	3%	3%
OLA078	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	71	79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	1155	0	-	-	0.0	-	185	172	-	27432	95%	3%	3%
OLA079	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	1202	0	-90	-86	6.0	3	185	175	175	27432	95%	3%	3%
OLA080	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	81	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	1215	0	-	-	0.0	-	185	174	-	27432	95%	3%	3%
OLA081	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	67	1249	0	-	-	0.0	-	185	175	-	27432	95%	3%	3%
OLA082	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	87	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	1575	0	-	-	0.0	-	185	181	-	27432	95%	3%	3%
OLA083	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	84	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	1621	0	84	90	2.0	13	185	182	182	27432	95%	3%	3%
OLA084	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	73	79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	32	1676	0	73	79	1.6	18	185	183	182	27432	95%	3%	3%
OLA085	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	56	61	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	1780	0	56	61	2.6	8	185	182	181	27432	95%	3%	3%
OLA086	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	66	3110	0	-	-	0.0	-	185	193	-	27432	95%	3%	3%
OLA087	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	50	3150	0	-	-	0.0	-	185	194	-	27432	95%	3%	3%
OLA088	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	73	3172	0	-	-	0.0	-	185	194	-	27432	95%	3%	3%
OLA089	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	3402	0	-	-	0.0	-	185	205	-	27432	95%	3%	3%
OLA090	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	69	3422	0	-	-	0.0	-	185	205	-	27432	95%	3%	3%
OLA091	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	3801	0	-	-	0.0	-	185	203	-	27432	95%	3%	3%
OLA092	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	3947	0	-	-	0.0	-	185	203	-	27432	95%	3%	3%
OLA093	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	4044	0	-	-	0.0	-	185	202	-	27432	95%	3%	3%
OLA094	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	77	80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	4215	0	-	-	0.0	-	185	202	-	27432	95%	3%	3%
OLA095	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	74	77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	65	4286	0	-	-	0.0	-	185	202	-	27432	95%	3%	3%
OLA096	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	102	4294	0	-	-	0.0	-	185	202	-	27432	95%	3%	3%
OLA097	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	62	65	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	4344	0	62	65	1.8	5	185	202	201	27432	95%	3%	3%
OLA098	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	62	65	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	4388	0	62	65	1.8	4	185	202	202	27432	95%	3%	3%
OLA099	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	63	66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	4519	0	-	-	0.0	-	185	201	-	27432	95%	3%	3%
OLA100	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	4952	0	-	-	0.0	-	185	202	-	27432	95%	3%	3%
OLA101	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	5022	0	-	-	0.0	-	185	201	-	27432	95%	3%	3%
OLA102	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	82	5218	0	-	-	0.0	-	185	198	-	27432	95%	3%	3%
OLA103	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-84	-81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	74	5388	0	-	-	0.0	-	185	197	-	27432	95%	3%	3%
OLA104	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-74	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	102	5585	0	-	-	0.0	-	185	196	-	27432	95%	3%	3%

Mature State of Development - 2041 S02_NBd Kennedy Road 16th Avenue Highway 7

POR	Posted Speed Limit (km/hr)	Road Grade (%)		Road Grade Mode		Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)		Topography		Wood Depth	No of Row of Houses	Density of 1st Row		Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	162	2589	0	-	-	0.0	-	185	209	-	27432	95%	3%	3%
OLA002	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	2542	0	-	-	0.0	-	185	207	-	27432	95%	3%	3%
OLA003	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	78	79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	2540	0	78	79	2.0	4	185	207	206	27432	95%	3%	3%
OLA004	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	77	78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	68	2453	0	-	-	0.0	-	185	207	-	27432	95%	3%	3%
OLA005	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	77	78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	41	2406	0	77	78	2.2	5	185	208	207	27432	95%	3%	3%
OLA006	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	2358	0	-	-	0.0	-	185	207	-	27432	95%	3%	3%
OLA007	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	77	79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	2377	0	77	79	2.1	5	185	208	207	27432	95%	3%	3%
OLA008	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	2289	0	-	-	0.0	-	185	207	-	27432	95%	3%	3%
OLA009	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	78	79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	35	2301	0	78	79	2.1	5	185	207	207	27432	95%	3%	3%
OLA010	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	36	2188	0	-	-	0.0	-	185	206	-	27432	95%	3%	3%
OLA011	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	75	77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	75	2219	0	-	-	0.0	-	185	206	-	27432	95%	3%	3%
OLA012	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	2102	0	-	-	0.0	-	185	204	-	27432	95%	3%	3%
OLA013	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	2043	0	-	-	0.0	-	185	204	-	27432	95%	3%	3%
OLA014	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	75	77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	33	2047	0	75	77	2.0	4	185	203	203	27432	95%	3%	3%
OLA015	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	75	78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	37	1972	0	75	78	2.0	6	185	202	202	27432	95%	3%	3%
OLA016	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	74	77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	77	1939	0	-	-	0.0	-	185	200	-	27432	95%	3%	3%
OLA017	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	1677	0	-	-	0.0	-	185	196	-	27432	95%	3%	3%
OLA018	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	1642	0	-	-	0.0	-	185	196	-	27432	95%	3%	3%
OLA019	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	1597	0	-	-	0.0	-	185	197	-	27432	95%	3%	3%
OLA020	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	32	1512	0	-	-	0.0	-	185	197	-	27432	95%	3%	3%
OLA021	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	1460	0	-	-	0.0	-	185	200	-	27432	95%	3%	3%
OLA022	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	35	1325	0	-	-	0.0	-	185	200	-	27432	95%	3%	3%
OLA023	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	67	74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	86	1340	0	-	-	0.0	-	185	199	-	27432	95%	3%	3%
OLA024	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	65	73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	1158	0	-	-	0.0	-	185	193	-	27432	95%	3%	3%
OLA025	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	1068	0	-	-	0.0	-	185	191	-	27432	95%	3%	3%
OLA026	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	48	66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	66	786	0	55	66	6.0	3	185	183	183	27432	95%	3%	3%
OLA027	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	37	688	0	-	-	0.0	-	185	185	-	27432	95%	3%	3%
OLA028	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	49	70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	714	0	-	-	0.0	-	185	182	-	27432	95%	3%	3%
OLA029	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	636	0	-	-	0.0	-	185	185	-	27432	95%	3%	3%
OLA030	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	602	0	-	-	0.0	-	185	184	-	27432	95%	3%	3%
OLA031	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	54	78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	664	0	-	-	0.0	-	185	182	-	27432	95%	3%	3%
OLA032	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	56	84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	74	614	0	-	-	0.0	-	185	181	-	27432	95%	3%	3%
OLA033	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	532	0	-	-	0.0	-	185	182	-	27432	95%	3%	3%
OLA034	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	63	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	578	0	63	90	6.0	3	185	182	182	27432	95%	3%	3%
OLA035	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	72	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	47	503	0	-	-	0.0	-	185	182	-	27432	95%	3%	3%
OLA036	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	471	0	-	-	0.0	-	185	182	-	27432	95%	3%	3%
OLA037	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	80	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	447	0	-	-	0.0	-	185	182	-	27432	95%	3%	3%
OLA038	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-58	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	406	0	-	-	0.0	-	185	182	-	27432	95%	3%	3%
OLA039	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	84	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	396	0	-	-	0.0	-	185	181	-	27432	95%	3%	3%
OLA040	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-43	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	24	349	0	-	-	0.0	-	185	183	-	27432	95%	3%	3%
OLA041	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	330	0	-	-	0.0	-	185	181	-	27432	95%	3%	3%
OLA042	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	301	0	-	-	0.0	-	185	182	-	27432	95%	3%	3%
OLA043	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-69	-41	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	296	0	-47	-41	1.8	12	185	183	182	27432	95%	3%	3%
OLA044	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	41	245	0	-	-	0.0	-	185	182	-	27432	95%	3%	3%
OLA045	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	200	0	-	-	0.0	-	185	183	-	27432	95%	3%	3%
OLA046	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-65	-42	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	211	0	-65	-45	6.0	3	185	185	185	27432	95%	3%	3%
OLA047	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	82	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	48	132	0	-	-	0.0	-	185	183	-	27432	95%	3%	3%
OLA048	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-58	-58	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	32	75	0	-	-	0.0	-	185	184	-	27432	95%	3%	3%
OLA049	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-62	-40	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	53	0	-62	-40	2.0	25	185	184	185	27432	95%	3%	3%
OLA050	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	54	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	56	0	-	-	0.0	-	185	185	-	27432	95%	3%	3%
OLA051	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-72	36	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	24	24	0	-72	36	2.0	11	185	184	185	27432	95%	3%	3%
OLA052	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-29	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	40	0	-	-	0.0	-	185	185	-	27432	95%	3%	3%
OLA053	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-78	60	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	32	32	0	-78	60	2.0	19	185	184	185	27432	95%	3%	3%
OLA054	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-85	70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	25	0	-85	70	2.0	12	185	184	186	27432	95%	3%	3%
OLA055	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	46	0	-	-	0.0	-	185	185	-	27432	95%	3%	3%
OLA056	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-88	73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	26	0	-88	73	2.0	13	185	185	186	27432	95%	3%	3%
OLA057	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-82	86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	46	0	-	-	0.0	-	185	185	-	27432	95%	3%	3%
OLA058	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-88	78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	23	23	0	-88	78	2.0	10	185	185	186	27432	95%	3%	3%

OLA059	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	42	0	-	-	0.0	-	185	185	-	27432	95%	3%	3%
OLA060	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	28	0	-87	80	1.8	15	185	186	186	27432	95%	3%	3%
OLA061	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	45	0	-	-	0.0	-	185	184	-	27432	95%	3%	3%
OLA062	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-88	82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	20	20	0	-88	82	1.8	7	185	186	185	27432	95%	3%	3%
OLA063	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	27	27	0	-	-	0.0	-	185	185	-	27432	95%	3%	3%
OLA064	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-83	82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	41	0	-83	82	1.8	6	184	186	185	27432	95%	3%	3%
OLA065	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	34	34	0	-	-	0.0	-	183	183	-	27432	95%	3%	3%
OLA066	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-88	82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	47	47	0	25	82	6.0	3	183	183	183	27432	95%	3%	3%
OLA067	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	43	0	-81	83	1.8	14	182	181	182	27432	95%	3%	3%
OLA068	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	44	44	0	-89	-35	6.0	3	181	180	180	27432	95%	3%	3%
OLA069	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	45	0	-77	83	1.8	31	179	181	180	27432	95%	3%	3%
OLA070	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-78	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	31	0	-78	85	1.8	17	178	179	178	27432	95%	3%	3%
OLA071	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	42	42	0	-	-	0.0	-	178	178	-	27432	95%	3%	3%
OLA072	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	45	0	-	-	0.0	-	176	177	-	27432	95%	3%	3%
OLA073	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-66	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	29	0	-66	85	1.9	10	176	177	177	27432	95%	3%	3%
OLA074	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	12	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	55	55	0	-	-	0.0	-	176	176	-	27432	95%	3%	3%
OLA075	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	17	73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	55	58	0	-	-	0.0	-	176	175	-	27432	95%	3%	3%
OLA076	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	45	66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	65	104	0	-	-	0.0	-	176	175	-	27432	95%	3%	3%
OLA077	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	35	312	0	-	-	0.0	-	176	174	-	27432	95%	3%	3%
OLA078	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	79	86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	322	0	-	-	0.0	-	176	172	-	27432	95%	3%	3%
OLA079	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	-68	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	393	0	-86	-68	6.0	3	176	175	175	27432	95%	3%	3%
OLA080	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	390	0	-	-	0.0	-	176	174	-	27432	95%	3%	3%
OLA081	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	-69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	67	444	0	-	-	0.0	-	176	175	-	27432	95%	3%	3%
OLA082	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	741	0	-	-	0.0	-	176	181	-	27432	95%	3%	3%
OLA083	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	788	0	-	-	0.0	-	176	182	-	27432	95%	3%	3%
OLA084	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	79	83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	32	843	0	79	83	1.6	18	176	183	182	27432	95%	3%	3%
OLA085	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	61	66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	950	0	61	66	2.6	8	176	182	181	27432	95%	3%	3%
OLA086	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	66	2308	0	-	-	0.0	-	176	193	-	27432	95%	3%	3%
OLA087	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	50	2349	0	-	-	0.0	-	176	194	-	27432	95%	3%	3%
OLA088	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	73	2368	0	-	-	0.0	-	176	194	-	27432	95%	3%	3%
OLA089	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	2598	0	-	-	0.0	-	176	205	-	27432	95%	3%	3%
OLA090	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	69	2616	0	-	-	0.0	-	176	205	-	27432	95%	3%	3%
OLA091	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	2993	0	-	-	0.0	-	176	203	-	27432	95%	3%	3%
OLA092	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	3138	0	-	-	0.0	-	176	203	-	27432	95%	3%	3%
OLA093	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	3234	0	-	-	0.0	-	176	202	-	27432	95%	3%	3%
OLA094	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	80	83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	3405	0	-	-	0.0	-	176	202	-	27432	95%	3%	3%
OLA095	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	77	80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	65	3475	0	-	-	0.0	-	176	202	-	27432	95%	3%	3%
OLA096	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	102	3493	0	-	-	0.0	-	176	202	-	27432	95%	3%	3%
OLA097	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	65	68	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	3536	0	65	68	1.8	5	176	202	201	27432	95%	3%	3%
OLA098	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	65	68	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	3580	0	65	68	1.8	4	176	202	202	27432	95%	3%	3%
OLA099	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	66	69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	3714	0	-	-	0.0	-	176	201	-	27432	95%	3%	3%
OLA100	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	4163	0	-	-	0.0	-	176	202	-	27432	95%	3%	3%
OLA101	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	4234	0	-	-	0.0	-	176	201	-	27432	95%	3%	3%
OLA102	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	82	4435	0	-	-	0.0	-	176	198	-	27432	95%	3%	3%
OLA103	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	74	4605	0	-	-	0.0	-	176	197	-	27432	95%	3%	3%
OLA104	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-72	-69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	102	4801	0	-	-	0.0	-	176	196	-	27432	95%	3%	3%

Mature State of Development - 2041 S02_NBe Kennedy Road 16th Avenue Highway 7

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode		Road Pavement		Angle 1 (degrees)	Angle 2 (degrees)	Topography		Wood Depth		No of Row of Houses	Density of 1st Row	Intermediate Surface		Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	162	3426	0	-	-	0.0	-	176	209	-	27432	95%	3%	3%
OLA002	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	3378	0	-	-	0.0	-	176	207	-	27432	95%	3%	3%
OLA003	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	79	81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	3375	0	79	81	2.0	4	176	207	206	27432	95%	3%	3%
OLA004	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	78	81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	68	3287	0	-	-	0.0	-	176	207	-	27432	95%	3%	3%
OLA005	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	78	80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	41	3241	0	78	80	2.2	5	176	208	207	27432	95%	3%	3%
OLA006	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	3194	0	-	-	0.0	-	176	207	-	27432	95%	3%	3%
OLA007	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	79	81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	3211	0	79	81	2.1	5	176	208	207	27432	95%	3%	3%
OLA008	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	3124	0	-	-	0.0	-	176	207	-	27432	95%	3%	3%
OLA009	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	79	81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	35	3134	0	79	81	2.1	5	176	207	207	27432	95%	3%	3%
OLA010	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	36	3023	0	-	-	0.0	-	176	206	-	27432	95%	3%	3%
OLA011	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	77	80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	75	3051	0	-	-	0.0	-	176	206	-	27432	95%	3%	3%
OLA012	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	2936	0	-	-	0.0	-	176	204	-	27432	95%	3%	3%
OLA013	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	2877	0	-	-	0.0	-	176	204	-	27432	95%	3%	3%
OLA014	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	77	80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	33	2880	0	77	80	2.0	4	176	203	203	27432	95%	3%	3%
OLA015	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	78	80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	37	2803	0	78	80	2.0	6	176	202	202	27432	95%	3%	3%
OLA016	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	77	80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	77	2769	0	-	-	0.0	-	176	200	-	27432	95%	3%	3%
OLA017	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	2508	0	-	-	0.0	-	176	196	-	27432	95%	3%	3%
OLA018	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	2473	0	-	-	0.0	-	176	196	-	27432	95%	3%	3%
OLA019	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	2429	0	-	-	0.0	-	176	197	-	27432	95%	3%	3%
OLA020	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	32	2341	0	-	-	0.0	-	176	197	-	27432	95%	3%	3%
OLA021	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	2290	0	-	-	0.0	-	176	200	-	27432	95%	3%	3%
OLA022	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	35	2152	0	-	-	0.0	-	176	200	-	27432	95%	3%	3%
OLA023	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	74	78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	86	2155	0	-	-	0.0	-	176	199	-	27432	95%	3%	3%
OLA024	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	73	77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	1970	0	-	-	0.0	-	176	193	-	27432	95%	3%	3%
OLA025	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	1886	0	-	-	0.0	-	176	191	-	27432	95%	3%	3%
OLA026	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	66	72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	66	1548	0	66	72	6.0	3	176	183	183	27432	95%	3%	3%
OLA027	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	37	1470	0	-	-	0.0	-	176	185	-	27432	95%	3%	3%
OLA028	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	70	76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	1469	0	-	-	0.0	-	176	182	-	27432	95%	3%	3%
OLA029	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	1412	0	-	-	0.0	-	176	185	-	27432	95%	3%	3%
OLA030	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	1371	0	-	-	0.0	-	176	184	-	27432	95%	3%	3%
OLA031	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	78	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	1401	0	-	-	0.0	-	176	182	-	27432	95%	3%	3%
OLA032	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	84	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	74	1331	0	-	-	0.0	-	176	181	-	27432	95%	3%	3%
OLA033	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	1289	0	-	-	0.0	-	176	182	-	27432	95%	3%	3%
OLA034	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	1305	0	-	-	0.0	-	176	182	-	27432	95%	3%	3%
OLA035	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	47	1222	0	-	-	0.0	-	176	182	-	27432	95%	3%	3%
OLA036	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-69	-61	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	1227	0	-	-	0.0	-	176	182	-	27432	95%	3%	3%
OLA037	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	1171	0	-	-	0.0	-	176	182	-	27432	95%	3%	3%
OLA038	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-58	-50	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	1168	0	-	-	0.0	-	176	182	-	27432	95%	3%	3%
OLA039	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	1122	0	-	-	0.0	-	176	181	-	27432	95%	3%	3%
OLA040	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-43	-36	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	24	1122	0	-	-	0.0	-	176	183	-	27432	95%	3%	3%
OLA041	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	1069	0	-	-	0.0	-	176	181	-	27432	95%	3%	3%
OLA042	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	1051	0	-	-	0.0	-	176	182	-	27432	95%	3%	3%
OLA043	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-41	-34	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	1086	0	-41	-34	1.8	12	176	183	182	27432	95%	3%	3%
OLA044	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	41	1013	0	-	-	0.0	-	176	182	-	27432	95%	3%	3%
OLA045	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	982	0	-	-	0.0	-	176	183	-	27432	95%	3%	3%
OLA046	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-42	-35	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	1027	0	-	-	0.0	-	176	185	-	27432	95%	3%	3%
OLA047	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	48	925	0	-	-	0.0	-	176	183	-	27432	95%	3%	3%
OLA048	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-58	-52	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	32	911	0	-58	-52	2.0	10	176	184	184	27432	95%	3%	3%
OLA049	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-62	-57	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	885	0	-62	-57	2.0	25	176	184	185	27432	95%	3%	3%
OLA050	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	863	0	-	-	0.0	-	176	185	-	27432	95%	3%	3%
OLA051	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-72	-66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	24	828	0	-72	-66	2.0	11	176	184	185	27432	95%	3%	3%
OLA052	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	806	0	-	-	0.0	-	176	185	-	27432	95%	3%	3%
OLA053	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-78	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	32	779	0	-78	-72	2.0	19	176	184	185	27432	95%	3%	3%
OLA054	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-85	-79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	726	0	-85	-79	2.0	12	176	184	186	27432	95%	3%	3%
OLA055	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	739	0	-	-	0.0	-	176	185	-	27432	95%	3%	3%
OLA056	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-88	-83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	672	0	-88	-83	2.0	13	176	185	186	27432	95%	3%	3%
OLA057	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	86	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	684	0	-	-	0.0	-	176	185	-	27432	95%	3%	3%
OLA058	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-88	-82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	23	617	0	-88	-82	2.0	10	176	185	186	27432	95%	3%	3%

OLA059	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	86	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	618	0	-	-	0.0	-	176	185	-	27432	95%	3%	3%
OLA060	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	562	0	-87	-81	1.8	15	176	186	186	27432	95%	3%	3%
OLA061	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	85	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	542	0	-	-	0.0	-	176	184	-	27432	95%	3%	3%
OLA062	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-88	-81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	20	505	0	-88	-81	1.8	7	176	186	185	27432	95%	3%	3%
OLA063	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	87	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	27	476	0	-	-	0.0	-	176	185	-	27432	95%	3%	3%
OLA064	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-83	-77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	456	0	-83	-77	1.8	6	176	186	185	27432	95%	3%	3%
OLA065	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	85	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	34	398	0	-	-	0.0	-	176	183	-	27432	95%	3%	3%
OLA066	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	82	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	47	346	0	82	90	6.0	3	176	183	183	27432	95%	3%	3%
OLA067	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	279	0	-81	-75	1.8	14	176	181	182	27432	95%	3%	3%
OLA068	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	81	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	44	260	0	-	-	0.0	-	176	180	-	27432	95%	3%	3%
OLA069	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	206	0	-77	-73	1.8	31	176	181	180	27432	95%	3%	3%
OLA070	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-78	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	157	0	-78	-73	1.8	17	176	179	178	27432	95%	3%	3%
OLA071	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	76	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	42	168	0	-	-	0.0	-	176	178	-	27432	95%	3%	3%
OLA072	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	66	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	104	0	-	-	0.0	-	176	177	-	27432	95%	3%	3%
OLA073	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-70	-66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	74	0	-70	-66	1.9	10	176	177	177	27432	95%	3%	3%
OLA074	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	12	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	55	56	0	-	-	0.0	-	176	176	-	27432	95%	3%	3%
OLA075	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-72	17	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	55	55	0	-	-	0.0	-	176	175	-	27432	95%	3%	3%
OLA076	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	45	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	65	65	0	-	-	0.0	-	175	175	-	27432	95%	3%	3%
OLA077	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-78	18	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	35	35	0	-	-	0.0	-	172	174	-	27432	95%	3%	3%
OLA078	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	5	86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	61	0	5	50	6.0	3	172	172	172	27432	95%	3%	3%
OLA079	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-68	-48	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	81	0	-68	-48	6.0	3	172	175	175	27432	95%	3%	3%
OLA080	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	78	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	78	0	-	-	0.0	-	172	174	-	27432	95%	3%	3%
OLA081	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-69	-56	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	67	130	0	-	-	0.0	-	172	175	-	27432	95%	3%	3%
OLA082	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	87	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	440	0	-	-	0.0	-	172	181	-	27432	95%	3%	3%
OLA083	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	85	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	484	0	85	90	2.0	13	172	182	182	27432	95%	3%	3%
OLA084	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	75	83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	32	539	0	75	83	1.6	18	172	183	182	27432	95%	3%	3%
OLA085	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	61	66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	641	0	61	66	2.6	8	172	182	181	27432	95%	3%	3%
OLA086	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	66	1990	0	-	-	0.0	-	172	193	-	27432	95%	3%	3%
OLA087	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	50	2031	0	-	-	0.0	-	172	194	-	27432	95%	3%	3%
OLA088	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	73	2050	0	-	-	0.0	-	172	194	-	27432	95%	3%	3%
OLA089	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	2280	0	-	-	0.0	-	172	205	-	27432	95%	3%	3%
OLA090	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	69	2298	0	-	-	0.0	-	172	205	-	27432	95%	3%	3%
OLA091	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	2675	0	-	-	0.0	-	172	203	-	27432	95%	3%	3%
OLA092	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	2821	0	-	-	0.0	-	172	203	-	27432	95%	3%	3%
OLA093	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	2917	0	-	-	0.0	-	172	202	-	27432	95%	3%	3%
OLA094	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	82	83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	3088	0	-	-	0.0	-	172	202	-	27432	95%	3%	3%
OLA095	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	79	80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	65	3158	0	-	-	0.0	-	172	202	-	27432	95%	3%	3%
OLA096	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	102	3175	0	-	-	0.0	-	172	202	-	27432	95%	3%	3%
OLA097	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	68	68	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	3219	0	68	68	1.8	5	172	202	201	27432	95%	3%	3%
OLA098	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	68	68	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	3263	0	68	68	1.8	4	172	202	202	27432	95%	3%	3%
OLA099	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	69	69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	3397	0	-	-	0.0	-	172	201	-	27432	95%	3%	3%
OLA100	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	3845	0	-	-	0.0	-	172	202	-	27432	95%	3%	3%
OLA101	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	3915	0	-	-	0.0	-	172	201	-	27432	95%	3%	3%
OLA102	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	82	4117	0	-	-	0.0	-	172	198	-	27432	95%	3%	3%
OLA103	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-78	-78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	74	4286	0	-	-	0.0	-	172	197	-	27432	95%	3%	3%
OLA104	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-69	-69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	102	4482	0	-	-	0.0	-	172	196	-	27432	95%	3%	3%

Mature State of Development - 2041 S02_NBf Kennedy Road 16th Avenue Highway 7

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode		Road Pavement		Angle 1 (degrees)	Angle 2 (degrees)	Topography		Wood Depth		No of Row of Houses	Density of 1st Row	Intermediate Surface		Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	162	3725	0	-	-	0.0	-	172	209	-	27432	95%	3%	3%
OLA002	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	3673	0	-	-	0.0	-	172	207	-	27432	95%	3%	3%
OLA003	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	81	81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	3667	0	81	81	2.0	4	172	207	206	27432	95%	3%	3%
OLA004	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	81	81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	68	3578	0	-	-	0.0	-	172	207	-	27432	95%	3%	3%
OLA005	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	80	81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	41	3532	0	80	81	2.2	5	172	208	207	27432	95%	3%	3%
OLA006	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	3487	0	-	-	0.0	-	172	207	-	27432	95%	3%	3%
OLA007	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	81	81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	3501	0	81	81	2.1	5	172	208	207	27432	95%	3%	3%
OLA008	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	3417	0	-	-	0.0	-	172	207	-	27432	95%	3%	3%
OLA009	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	81	82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	35	3425	0	81	82	2.1	5	172	207	207	27432	95%	3%	3%
OLA010	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	36	3315	0	-	-	0.0	-	172	206	-	27432	95%	3%	3%
OLA011	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	80	80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	75	3339	0	-	-	0.0	-	172	206	-	27432	95%	3%	3%
OLA012	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	3228	0	-	-	0.0	-	172	204	-	27432	95%	3%	3%
OLA013	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	3169	0	-	-	0.0	-	172	204	-	27432	95%	3%	3%
OLA014	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	80	80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	33	3168	0	80	80	2.0	4	172	203	203	27432	95%	3%	3%
OLA015	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	80	81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	37	3091	0	80	81	2.0	6	172	202	202	27432	95%	3%	3%
OLA016	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	80	80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	77	3054	0	-	-	0.0	-	172	200	-	27432	95%	3%	3%
OLA017	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	2797	0	-	-	0.0	-	172	196	-	27432	95%	3%	3%
OLA018	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	2761	0	-	-	0.0	-	172	196	-	27432	95%	3%	3%
OLA019	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	2718	0	-	-	0.0	-	172	197	-	27432	95%	3%	3%
OLA020	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	32	2628	0	-	-	0.0	-	172	197	-	27432	95%	3%	3%
OLA021	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	2578	0	-	-	0.0	-	172	200	-	27432	95%	3%	3%
OLA022	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	35	2437	0	-	-	0.0	-	172	200	-	27432	95%	3%	3%
OLA023	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	78	79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	86	2432	0	-	-	0.0	-	172	199	-	27432	95%	3%	3%
OLA024	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	77	78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	2245	0	-	-	0.0	-	172	193	-	27432	95%	3%	3%
OLA025	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	2166	0	-	-	0.0	-	172	191	-	27432	95%	3%	3%
OLA026	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	72	74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	66	1809	0	72	74	6.0	3	172	183	183	27432	95%	3%	3%
OLA027	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	37	1740	0	-	-	0.0	-	172	185	-	27432	95%	3%	3%
OLA028	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	76	78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	1729	0	-	-	0.0	-	172	182	-	27432	95%	3%	3%
OLA029	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	1680	0	-	-	0.0	-	172	185	-	27432	95%	3%	3%
OLA030	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	1639	0	-	-	0.0	-	172	184	-	27432	95%	3%	3%
OLA031	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	85	86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	1657	0	-	-	0.0	-	172	182	-	27432	95%	3%	3%
OLA032	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	74	1584	0	-	-	0.0	-	172	181	-	27432	95%	3%	3%
OLA033	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-74	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	1555	0	-	-	0.0	-	172	182	-	27432	95%	3%	3%
OLA034	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	1562	0	-	-	0.0	-	172	182	-	27432	95%	3%	3%
OLA035	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	47	1481	0	-	-	0.0	-	172	182	-	27432	95%	3%	3%
OLA036	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-61	-60	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	1495	0	-	-	0.0	-	172	182	-	27432	95%	3%	3%
OLA037	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	1433	0	-	-	0.0	-	172	182	-	27432	95%	3%	3%
OLA038	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-50	-49	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	1440	0	-	-	0.0	-	172	182	-	27432	95%	3%	3%
OLA039	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	1388	0	-	-	0.0	-	172	181	-	27432	95%	3%	3%
OLA040	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-36	-35	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	24	1399	0	-	-	0.0	-	172	183	-	27432	95%	3%	3%
OLA041	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	1340	0	-	-	0.0	-	172	181	-	27432	95%	3%	3%
OLA042	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	1326	0	-	-	0.0	-	172	182	-	27432	95%	3%	3%
OLA043	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-34	-33	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	1369	0	-34	-33	1.8	12	172	183	182	27432	95%	3%	3%
OLA044	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	41	1294	0	-	-	0.0	-	172	182	-	27432	95%	3%	3%
OLA045	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	1267	0	-	-	0.0	-	172	183	-	27432	95%	3%	3%
OLA046	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-35	-35	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	1318	0	-	-	0.0	-	172	185	-	27432	95%	3%	3%
OLA047	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	48	1216	0	-	-	0.0	-	172	183	-	27432	95%	3%	3%
OLA048	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-53	-52	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	32	1213	0	-53	-52	2.0	10	172	184	184	27432	95%	3%	3%
OLA049	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-57	-57	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	1189	0	-57	-57	2.0	25	172	184	185	27432	95%	3%	3%
OLA050	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	1160	0	-	-	0.0	-	172	185	-	27432	95%	3%	3%
OLA051	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-67	-66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	24	1133	0	-67	-66	2.0	11	172	184	185	27432	95%	3%	3%
OLA052	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	1105	0	-	-	0.0	-	172	185	-	27432	95%	3%	3%
OLA053	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	32	1086	0	-73	-72	2.0	19	172	184	185	27432	95%	3%	3%
OLA054	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-80	-79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	1033	0	-80	-79	2.0	12	172	184	186	27432	95%	3%	3%
OLA055	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	1039	0	-	-	0.0	-	172	185	-	27432	95%	3%	3%
OLA056	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-84	-83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	980	0	-84	-83	2.0	13	172	185	186	27432	95%	3%	3%
OLA057	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	984	0	-	-	0.0	-	172	185	-	27432	95%	3%	3%
OLA058	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-84	-82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	23	925	0	-84	-82	2.0	10	172	185	186	27432	95%	3%	3%

OLA059	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	918	0	-	-	0.0	-	172	185	-	27432	95%	3%	3%
OLA060	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-82	-81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	871	0	-82	-81	1.8	15	172	186	186	27432	95%	3%	3%
OLA061	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	842	0	-	-	0.0	-	172	184	-	27432	95%	3%	3%
OLA062	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-83	-81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	20	814	0	-83	-81	1.8	7	172	186	185	27432	95%	3%	3%
OLA063	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	27	779	0	-	-	0.0	-	172	185	-	27432	95%	3%	3%
OLA064	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-79	-77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	769	0	-79	-77	1.8	6	172	186	185	27432	95%	3%	3%
OLA065	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	34	700	0	-	-	0.0	-	172	183	-	27432	95%	3%	3%
OLA066	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	47	645	0	-	-	0.0	-	172	183	-	27432	95%	3%	3%
OLA067	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-79	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	595	0	-79	-75	1.8	14	172	181	182	27432	95%	3%	3%
OLA068	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	44	560	0	-	-	0.0	-	172	180	-	27432	95%	3%	3%
OLA069	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	524	0	-77	-73	1.8	31	172	181	180	27432	95%	3%	3%
OLA070	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-78	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	474	0	-78	-73	1.8	17	172	179	178	27432	95%	3%	3%
OLA071	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	42	468	0	-	-	0.0	-	172	178	-	27432	95%	3%	3%
OLA072	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	400	0	-	-	0.0	-	172	177	-	27432	95%	3%	3%
OLA073	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	392	0	-77	-70	1.9	10	172	177	177	27432	95%	3%	3%
OLA074	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	55	318	0	-	-	0.0	-	172	176	-	27432	95%	3%	3%
OLA075	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-83	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	55	314	0	-	-	0.0	-	172	175	-	27432	95%	3%	3%
OLA076	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	65	256	0	-	-	0.0	-	172	175	-	27432	95%	3%	3%
OLA077	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	18	70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	35	37	0	30	70	6.0	3	172	174	174	27432	95%	3%	3%
OLA078	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-84	5	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	61	0	-84	5	6.0	3	172	172	172	27432	95%	3%	3%
OLA079	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-48	70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	46	0	-48	-40	6.0	3	173	175	175	27432	95%	3%	3%
OLA080	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-88	78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	22	0	-88	-79	1.7	30	173	174	174	27432	95%	3%	3%
OLA081	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-56	53	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	67	67	0	-	-	0.0	-	173	175	-	27432	95%	3%	3%
OLA082	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	81	87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	229	0	-	-	0.0	-	174	181	-	27432	95%	3%	3%
OLA083	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	82	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	272	0	82	85	2.0	13	174	182	182	27432	95%	3%	3%
OLA084	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	73	75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	32	326	0	73	75	1.6	18	174	183	182	27432	95%	3%	3%
OLA085	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	61	61	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	428	0	61	61	2.6	8	174	182	181	27432	95%	3%	3%
OLA086	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	66	1785	0	-	-	0.0	-	174	193	-	27432	95%	3%	3%
OLA087	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	50	1826	0	-	-	0.0	-	174	194	-	27432	95%	3%	3%
OLA088	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	73	1845	0	-	-	0.0	-	174	194	-	27432	95%	3%	3%
OLA089	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	2074	0	-	-	0.0	-	174	205	-	27432	95%	3%	3%
OLA090	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	69	2091	0	-	-	0.0	-	174	205	-	27432	95%	3%	3%
OLA091	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	2468	0	-	-	0.0	-	174	203	-	27432	95%	3%	3%
OLA092	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	2613	0	-	-	0.0	-	174	203	-	27432	95%	3%	3%
OLA093	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	2709	0	-	-	0.0	-	174	202	-	27432	95%	3%	3%
OLA094	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	82	83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	2879	0	-	-	0.0	-	174	202	-	27432	95%	3%	3%
OLA095	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	79	80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	65	2950	0	-	-	0.0	-	174	202	-	27432	95%	3%	3%
OLA096	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	102	2970	0	-	-	0.0	-	174	202	-	27432	95%	3%	3%
OLA097	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	68	69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	3011	0	68	69	1.8	5	174	202	201	27432	95%	3%	3%
OLA098	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	68	69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	3055	0	68	69	1.8	4	174	202	202	27432	95%	3%	3%
OLA099	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	69	70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	3190	0	-	-	0.0	-	174	201	-	27432	95%	3%	3%
OLA100	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	3642	0	-	-	0.0	-	174	202	-	27432	95%	3%	3%
OLA101	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	3713	0	-	-	0.0	-	174	201	-	27432	95%	3%	3%
OLA102	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	82	3916	0	-	-	0.0	-	174	198	-	27432	95%	3%	3%
OLA103	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-78	-77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	74	4085	0	-	-	0.0	-	174	197	-	27432	95%	3%	3%
OLA104	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-69	-68	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	102	4280	0	-	-	0.0	-	174	196	-	27432	95%	3%	3%

Mature State of Development - 2041 S03_NBa Kennedy Road Highway 7 Highway 407

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	162	3938	0	-	-	0.0	-	174	209	-	36821	93%	3%	4%
OLA002	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	3887	0	-	-	0.0	-	174	207	-	36821	93%	3%	4%
OLA003	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	3880	0	81	81	2.0	4	174	207	206	36821	93%	3%	4%
OLA004	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	68	3791	0	-	-	0.0	-	174	207	-	36821	93%	3%	4%
OLA005	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	41	3745	0	81	81	2.2	5	174	208	207	36821	93%	3%	4%
OLA006	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	3700	0	-	-	0.0	-	174	207	-	36821	93%	3%	4%
OLA007	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	3714	0	81	82	2.1	5	174	208	207	36821	93%	3%	4%
OLA008	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	3630	0	-	-	0.0	-	174	207	-	36821	93%	3%	4%
OLA009	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	82	82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	3638	0	82	82	2.1	5	174	207	207	36821	93%	3%	4%
OLA010	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	36	3529	0	-	-	0.0	-	174	206	-	36821	93%	3%	4%
OLA011	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	80	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	75	3552	0	-	-	0.0	-	174	206	-	36821	93%	3%	4%
OLA012	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	34	3442	0	-	-	0.0	-	174	204	-	36821	93%	3%	4%
OLA013	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	3382	0	-	-	0.0	-	174	204	-	36821	93%	3%	4%
OLA014	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	80	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	3381	0	80	81	2.0	4	174	203	203	36821	93%	3%	4%
OLA015	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	37	3304	0	81	81	2.0	6	174	202	202	36821	93%	3%	4%
OLA016	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	80	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	77	3266	0	-	-	0.0	-	174	200	-	36821	93%	3%	4%
OLA017	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	3009	0	-	-	0.0	-	174	196	-	36821	93%	3%	4%
OLA018	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	2974	0	-	-	0.0	-	174	196	-	36821	93%	3%	4%
OLA019	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	53	2931	0	-	-	0.0	-	174	197	-	36821	93%	3%	4%
OLA020	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	2841	0	-	-	0.0	-	174	197	-	36821	93%	3%	4%
OLA021	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	61	2791	0	-	-	0.0	-	174	200	-	36821	93%	3%	4%
OLA022	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	2649	0	-	-	0.0	-	174	200	-	36821	93%	3%	4%
OLA023	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	79	79	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	86	2643	0	-	-	0.0	-	174	199	-	36821	93%	3%	4%
OLA024	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	78	79	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	2456	0	-	-	0.0	-	174	193	-	36821	93%	3%	4%
OLA025	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	2377	0	-	-	0.0	-	174	191	-	36821	93%	3%	4%
OLA026	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	74	75	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	66	2017	0	74	75	6.0	3	174	183	183	36821	93%	3%	4%
OLA027	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	37	1950	0	-	-	0.0	-	174	185	-	36821	93%	3%	4%
OLA028	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	78	79	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	1937	0	-	-	0.0	-	174	182	-	36821	93%	3%	4%
OLA029	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	1890	0	-	-	0.0	-	174	185	-	36821	93%	3%	4%
OLA030	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	1848	0	-	-	0.0	-	174	184	-	36821	93%	3%	4%
OLA031	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	86	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	53	1864	0	-	-	0.0	-	174	182	-	36821	93%	3%	4%
OLA032	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	74	1790	0	-	-	0.0	-	174	181	-	36821	93%	3%	4%
OLA033	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-73	-71	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	1765	0	-	-	0.0	-	174	182	-	36821	93%	3%	4%
OLA034	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	1770	0	-	-	0.0	-	174	182	-	36821	93%	3%	4%
OLA035	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	1689	0	-	-	0.0	-	174	182	-	36821	93%	3%	4%
OLA036	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-60	-59	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	1706	0	-	-	0.0	-	174	182	-	36821	93%	3%	4%
OLA037	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	1642	0	-	-	0.0	-	174	182	-	36821	93%	3%	4%
OLA038	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-49	-48	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	25	1651	0	-	-	0.0	-	174	182	-	36821	93%	3%	4%
OLA039	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	1598	0	-	-	0.0	-	174	181	-	36821	93%	3%	4%
OLA040	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-35	-34	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	24	1611	0	-	-	0.0	-	174	183	-	36821	93%	3%	4%
OLA041	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	46	1552	0	-	-	0.0	-	174	181	-	36821	93%	3%	4%
OLA042	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	1538	0	-	-	0.0	-	174	182	-	36821	93%	3%	4%
OLA043	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-33	-32	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	1582	0	-33	-32	1.8	12	174	183	182	36821	93%	3%	4%
OLA044	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	41	1507	0	-	-	0.0	-	174	182	-	36821	93%	3%	4%
OLA045	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	1480	0	-	-	0.0	-	174	183	-	36821	93%	3%	4%
OLA046	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-35	-35	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	1532	0	-	-	0.0	-	174	185	-	36821	93%	3%	4%
OLA047	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	1429	0	-	-	0.0	-	174	183	-	36821	93%	3%	4%
OLA048	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-53	-53	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	1427	0	-53	-53	2.0	10	174	184	184	36821	93%	3%	4%
OLA049	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-58	-57	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	1403	0	-58	-57	2.0	25	174	184	185	36821	93%	3%	4%
OLA050	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	36	1373	0	-	-	0.0	-	174	185	-	36821	93%	3%	4%
OLA051	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-68	-67	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	24	1346	0	-68	-67	2.0	11	174	184	185	36821	93%	3%	4%
OLA052	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	1318	0	-	-	0.0	-	174	185	-	36821	93%	3%	4%
OLA053	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-74	-73	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	1299	0	-74	-73	2.0	19	174	184	185	36821	93%	3%	4%
OLA054	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-81	-80	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	25	1246	0	-81	-80	2.0	12	174	184	186	36821	93%	3%	4%
OLA055	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	46	1252	0	-	-	0.0	-	174	185	-	36821	93%	3%	4%
OLA056	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-85	-84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	1193	0	-85	-84	2.0	13	174	185	186	36821	93%	3%	4%
OLA057	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	46	1197	0	-	-	0.0	-	174	185	-	36821	93%	3%	4%
OLA058	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-85	-84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	23	1138	0	-85	-84	2.0	10	174	185	186	36821	93%	3%	4%

OLA059	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	1132	0	-	-	0.0	-	174	185	-	36821	93%	3%	4%
OLA060	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-84	-82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	1084	0	-84	-82	1.8	15	174	186	186	36821	93%	3%	4%
OLA061	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	1055	0	-	-	0.0	-	174	184	-	36821	93%	3%	4%
OLA062	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-84	-83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	20	1027	0	-84	-83	1.8	7	174	186	185	36821	93%	3%	4%
OLA063	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	27	992	0	-	-	0.0	-	174	185	-	36821	93%	3%	4%
OLA064	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	980	0	-81	-79	1.8	6	174	186	185	36821	93%	3%	4%
OLA065	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	34	914	0	-	-	0.0	-	174	183	-	36821	93%	3%	4%
OLA066	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	47	859	0	-	-	0.0	-	174	183	-	36821	93%	3%	4%
OLA067	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-82	-79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	805	0	-82	-79	1.8	14	174	181	182	36821	93%	3%	4%
OLA068	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	44	774	0	-	-	0.0	-	174	180	-	36821	93%	3%	4%
OLA069	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	732	0	-81	-77	1.8	31	174	181	180	36821	93%	3%	4%
OLA070	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	683	0	-81	-78	1.8	17	174	179	178	36821	93%	3%	4%
OLA071	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	42	680	0	-	-	0.0	-	174	178	-	36821	93%	3%	4%
OLA072	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	613	0	-	-	0.0	-	174	177	-	36821	93%	3%	4%
OLA073	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	598	0	-81	-77	1.9	10	174	177	177	36821	93%	3%	4%
OLA074	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	55	531	0	-	-	0.0	-	174	176	-	36821	93%	3%	4%
OLA075	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	55	512	0	-	-	0.0	-	174	175	-	36821	93%	3%	4%
OLA076	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	65	448	0	-	-	0.0	-	174	175	-	36821	93%	3%	4%
OLA077	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	70	74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	35	235	0	70	74	6.0	3	174	174	174	36821	93%	3%	4%
OLA078	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	205	0	-90	-84	6.0	3	174	172	172	36821	93%	3%	4%
OLA079	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	70	82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	164	0	-	-	0.0	-	174	175	-	36821	93%	3%	4%
OLA080	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	137	0	-90	-88	1.7	30	174	174	174	36821	93%	3%	4%
OLA081	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	53	77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	67	132	0	-	-	0.0	-	174	175	-	36821	93%	3%	4%
OLA082	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-59	81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	41	0	-59	45	1.8	15	180	181	181	36821	93%	3%	4%
OLA083	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-51	82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	29	0	-51	82	2.0	13	181	182	182	36821	93%	3%	4%
OLA084	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	18	73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	32	33	0	18	73	1.6	18	182	183	182	36821	93%	3%	4%
OLA085	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	61	68	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	121	0	61	68	2.6	8	182	182	181	36821	93%	3%	4%
OLA086	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	66	1496	0	-	-	0.0	-	182	193	-	36821	93%	3%	4%
OLA087	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	50	1537	0	-	-	0.0	-	182	194	-	36821	93%	3%	4%
OLA088	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	73	1554	0	-	-	0.0	-	182	194	-	36821	93%	3%	4%
OLA089	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	1782	0	-	-	0.0	-	182	205	-	36821	93%	3%	4%
OLA090	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	69	1797	0	-	-	0.0	-	182	205	-	36821	93%	3%	4%
OLA091	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	2172	0	-	-	0.0	-	182	203	-	36821	93%	3%	4%
OLA092	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	2316	0	-	-	0.0	-	182	203	-	36821	93%	3%	4%
OLA093	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	2412	0	-	-	0.0	-	182	202	-	36821	93%	3%	4%
OLA094	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	83	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	2581	0	-	-	0.0	-	182	202	-	36821	93%	3%	4%
OLA095	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	80	82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	65	2651	0	-	-	0.0	-	182	202	-	36821	93%	3%	4%
OLA096	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	102	2677	0	-	-	0.0	-	182	202	-	36821	93%	3%	4%
OLA097	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	69	70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	2715	0	69	70	1.8	5	182	202	201	36821	93%	3%	4%
OLA098	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	69	70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	2758	0	69	70	1.8	4	182	202	202	36821	93%	3%	4%
OLA099	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	70	71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	2895	0	-	-	0.0	-	182	201	-	36821	93%	3%	4%
OLA100	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	3354	0	-	-	0.0	-	182	202	-	36821	93%	3%	4%
OLA101	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	3425	0	-	-	0.0	-	182	201	-	36821	93%	3%	4%
OLA102	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	82	3631	0	-	-	0.0	-	182	198	-	36821	93%	3%	4%
OLA103	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	74	3799	0	-	-	0.0	-	182	197	-	36821	93%	3%	4%
OLA104	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-68	-66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	102	3993	0	-	-	0.0	-	182	196	-	36821	93%	3%	4%

Mature State of Development - 2041 S03_NBb Kennedy Road Highway 7 Highway 407

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	162	4246	0	-	-	0.0	-	182	209	-	36821	93%	3%	4%
OLA002	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	4194	0	-	-	0.0	-	182	207	-	36821	93%	3%	4%
OLA003	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	4187	0	81	82	2.0	4	182	207	206	36821	93%	3%	4%
OLA004	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	68	4098	0	-	-	0.0	-	182	207	-	36821	93%	3%	4%
OLA005	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	41	4052	0	81	82	2.2	5	182	208	207	36821	93%	3%	4%
OLA006	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	4008	0	-	-	0.0	-	182	207	-	36821	93%	3%	4%
OLA007	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	82	83	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	4022	0	82	83	2.1	5	182	208	207	36821	93%	3%	4%
OLA008	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	3938	0	-	-	0.0	-	182	207	-	36821	93%	3%	4%
OLA009	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	82	83	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	3945	0	82	83	2.1	5	182	207	207	36821	93%	3%	4%
OLA010	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	36	3836	0	-	-	0.0	-	182	206	-	36821	93%	3%	4%
OLA011	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	75	3859	0	-	-	0.0	-	182	206	-	36821	93%	3%	4%
OLA012	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	34	3749	0	-	-	0.0	-	182	204	-	36821	93%	3%	4%
OLA013	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	3689	0	-	-	0.0	-	182	204	-	36821	93%	3%	4%
OLA014	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	3688	0	81	82	2.0	4	182	203	203	36821	93%	3%	4%
OLA015	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	37	3610	0	81	82	2.0	6	182	202	202	36821	93%	3%	4%
OLA016	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	77	3573	0	-	-	0.0	-	182	200	-	36821	93%	3%	4%
OLA017	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	3316	0	-	-	0.0	-	182	196	-	36821	93%	3%	4%
OLA018	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	3281	0	-	-	0.0	-	182	196	-	36821	93%	3%	4%
OLA019	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	53	3238	0	-	-	0.0	-	182	197	-	36821	93%	3%	4%
OLA020	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	3147	0	-	-	0.0	-	182	197	-	36821	93%	3%	4%
OLA021	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	61	3098	0	-	-	0.0	-	182	200	-	36821	93%	3%	4%
OLA022	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	2956	0	-	-	0.0	-	182	200	-	36821	93%	3%	4%
OLA023	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	79	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	86	2948	0	-	-	0.0	-	182	199	-	36821	93%	3%	4%
OLA024	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	79	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	2762	0	-	-	0.0	-	182	193	-	36821	93%	3%	4%
OLA025	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	2683	0	-	-	0.0	-	182	191	-	36821	93%	3%	4%
OLA026	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	75	78	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	66	2320	0	75	78	6.0	3	182	183	183	36821	93%	3%	4%
OLA027	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	37	2254	0	-	-	0.0	-	182	185	-	36821	93%	3%	4%
OLA028	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	79	82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	2239	0	-	-	0.0	-	182	182	-	36821	93%	3%	4%
OLA029	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	2195	0	-	-	0.0	-	182	185	-	36821	93%	3%	4%
OLA030	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	2153	0	-	-	0.0	-	182	184	-	36821	93%	3%	4%
OLA031	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	88	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	53	2166	0	-	-	0.0	-	182	182	-	36821	93%	3%	4%
OLA032	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	74	2091	0	-	-	0.0	-	182	181	-	36821	93%	3%	4%
OLA033	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-71	-69	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	2069	0	-	-	0.0	-	182	182	-	36821	93%	3%	4%
OLA034	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	2072	0	-	-	0.0	-	182	182	-	36821	93%	3%	4%
OLA035	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	1992	0	-	-	0.0	-	182	182	-	36821	93%	3%	4%
OLA036	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-59	-56	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	2010	0	-	-	0.0	-	182	182	-	36821	93%	3%	4%
OLA037	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	1946	0	-	-	0.0	-	182	182	-	36821	93%	3%	4%
OLA038	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-48	-45	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	25	1957	0	-	-	0.0	-	182	182	-	36821	93%	3%	4%
OLA039	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	1903	0	-	-	0.0	-	182	181	-	36821	93%	3%	4%
OLA040	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-34	-32	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	24	1918	0	-	-	0.0	-	182	183	-	36821	93%	3%	4%
OLA041	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	46	1857	0	-	-	0.0	-	182	181	-	36821	93%	3%	4%
OLA042	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	1844	0	-	-	0.0	-	182	182	-	36821	93%	3%	4%
OLA043	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-32	-30	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	1889	0	-32	-30	1.8	12	182	183	182	36821	93%	3%	4%
OLA044	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	41	1814	0	-	-	0.0	-	182	182	-	36821	93%	3%	4%
OLA045	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	1788	0	-	-	0.0	-	182	183	-	36821	93%	3%	4%
OLA046	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-35	-33	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	1839	0	-	-	0.0	-	182	185	-	36821	93%	3%	4%
OLA047	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	1737	0	-	-	0.0	-	182	183	-	36821	93%	3%	4%
OLA048	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-53	-51	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	1734	0	-53	-51	2.0	10	182	184	184	36821	93%	3%	4%
OLA049	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-58	-56	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	1710	0	-58	-56	2.0	25	182	184	185	36821	93%	3%	4%
OLA050	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	36	1681	0	-	-	0.0	-	182	185	-	36821	93%	3%	4%
OLA051	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-68	-66	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	24	1653	0	-68	-66	2.0	11	182	184	185	36821	93%	3%	4%
OLA052	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	1626	0	-	-	0.0	-	182	185	-	36821	93%	3%	4%
OLA053	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-74	-72	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	1606	0	-74	-72	2.0	19	182	184	185	36821	93%	3%	4%
OLA054	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-81	-79	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	25	1553	0	-81	-79	2.0	12	182	184	186	36821	93%	3%	4%
OLA055	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	46	1560	0	-	-	0.0	-	182	185	-	36821	93%	3%	4%
OLA056	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-85	-83	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	1499	0	-85	-83	2.0	13	182	185	186	36821	93%	3%	4%
OLA057	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	46	1505	0	-	-	0.0	-	182	185	-	36821	93%	3%	4%
OLA058	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-85	-83	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	23	1444	0	-85	-83	2.0	10	182	185	186	36821	93%	3%	4%

OLA059	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	1439	0	-	-	0.0	-	182	185	-	36821	93%	3%	4%
OLA060	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-84	-82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	1390	0	-84	-82	1.8	15	182	186	186	36821	93%	3%	4%
OLA061	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	1363	0	-	-	0.0	-	182	184	-	36821	93%	3%	4%
OLA062	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-84	-82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	20	1333	0	-84	-82	1.8	7	182	186	185	36821	93%	3%	4%
OLA063	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	27	1299	0	-	-	0.0	-	182	185	-	36821	93%	3%	4%
OLA064	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	1285	0	-81	-79	1.8	6	182	186	185	36821	93%	3%	4%
OLA065	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	34	1221	0	-	-	0.0	-	182	183	-	36821	93%	3%	4%
OLA066	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	47	1166	0	-	-	0.0	-	182	183	-	36821	93%	3%	4%
OLA067	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-82	-79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	1109	0	-82	-79	1.8	14	182	181	182	36821	93%	3%	4%
OLA068	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	44	1081	0	-	-	0.0	-	182	180	-	36821	93%	3%	4%
OLA069	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	1035	0	-81	-79	1.8	31	182	181	180	36821	93%	3%	4%
OLA070	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	986	0	-81	-79	1.8	17	182	179	178	36821	93%	3%	4%
OLA071	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	42	987	0	-	-	0.0	-	182	178	-	36821	93%	3%	4%
OLA072	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	919	0	-	-	0.0	-	182	177	-	36821	93%	3%	4%
OLA073	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	900	0	-81	-79	1.9	10	182	177	177	36821	93%	3%	4%
OLA074	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	55	838	0	-	-	0.0	-	182	176	-	36821	93%	3%	4%
OLA075	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	55	811	0	-	-	0.0	-	182	175	-	36821	93%	3%	4%
OLA076	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	65	745	0	-	-	0.0	-	182	175	-	36821	93%	3%	4%
OLA077	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	74	80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	35	542	0	74	80	6.0	3	182	174	174	36821	93%	3%	4%
OLA078	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	507	0	-	-	0.0	-	182	172	-	36821	93%	3%	4%
OLA079	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	82	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	466	0	-	-	0.0	-	182	175	-	36821	93%	3%	4%
OLA080	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	445	0	-90	-86	1.7	30	182	174	174	36821	93%	3%	4%
OLA081	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	77	87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	67	424	0	-	-	0.0	-	182	175	-	36821	93%	3%	4%
OLA082	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-62	-59	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	95	0	-62	-59	1.8	15	182	181	181	36821	93%	3%	4%
OLA083	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-63	-51	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	50	0	-63	-51	2.0	13	182	182	182	36821	93%	3%	4%
OLA084	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-66	18	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	32	32	0	-66	18	1.6	18	182	183	182	36821	93%	3%	4%
OLA085	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-64	68	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	22	0	-64	68	2.6	8	180	182	181	36821	93%	3%	4%
OLA086	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	66	1329	0	-	-	0.0	-	179	193	-	36821	93%	3%	4%
OLA087	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	50	1371	0	-	-	0.0	-	179	194	-	36821	93%	3%	4%
OLA088	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	73	1388	0	-	-	0.0	-	179	194	-	36821	93%	3%	4%
OLA089	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	1616	0	-	-	0.0	-	179	205	-	36821	93%	3%	4%
OLA090	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	69	1632	0	-	-	0.0	-	179	205	-	36821	93%	3%	4%
OLA091	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	2007	0	-	-	0.0	-	179	203	-	36821	93%	3%	4%
OLA092	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	2151	0	-	-	0.0	-	179	203	-	36821	93%	3%	4%
OLA093	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	2247	0	-	-	0.0	-	179	202	-	36821	93%	3%	4%
OLA094	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	84	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	2417	0	-	-	0.0	-	179	202	-	36821	93%	3%	4%
OLA095	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	81	82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	65	2487	0	-	-	0.0	-	179	202	-	36821	93%	3%	4%
OLA096	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	102	2511	0	-	-	0.0	-	179	202	-	36821	93%	3%	4%
OLA097	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	70	70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	2550	0	70	70	1.8	5	179	202	201	36821	93%	3%	4%
OLA098	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	70	70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	2593	0	70	70	1.8	4	179	202	202	36821	93%	3%	4%
OLA099	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	71	71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	2730	0	-	-	0.0	-	179	201	-	36821	93%	3%	4%
OLA100	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	3187	0	-	-	0.0	-	179	202	-	36821	93%	3%	4%
OLA101	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	3259	0	-	-	0.0	-	179	201	-	36821	93%	3%	4%
OLA102	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	82	3464	0	-	-	0.0	-	179	198	-	36821	93%	3%	4%
OLA103	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	74	3633	0	-	-	0.0	-	179	197	-	36821	93%	3%	4%
OLA104	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-66	-66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	102	3827	0	-	-	0.0	-	179	196	-	36821	93%	3%	4%

Mature State of Development - 2041 S03_NBc Kennedy Road Highway 7 Highway 407

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	162	4398	0	-90	-88	2.0	7	179	209	209	36821	93%	3%	4%
OLA002	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	4344	0	-	-	0.0	-	179	207	-	36821	93%	3%	4%
OLA003	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	82	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	4335	0	82	89	2.0	4	179	207	206	36821	93%	3%	4%
OLA004	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	82	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	68	4245	0	-	-	0.0	-	179	207	-	36821	93%	3%	4%
OLA005	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	82	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	41	4200	0	82	89	2.2	5	179	208	207	36821	93%	3%	4%
OLA006	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	4157	0	-90	-89	2.1	6	179	207	207	36821	93%	3%	4%
OLA007	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	83	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	4169	0	83	90	2.1	5	179	208	207	36821	93%	3%	4%
OLA008	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	4086	0	-90	-90	2.0	12	179	207	207	36821	93%	3%	4%
OLA009	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	83	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	4093	0	83	90	2.1	5	179	207	207	36821	93%	3%	4%
OLA010	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	36	3985	0	-90	-89	1.9	8	179	206	206	36821	93%	3%	4%
OLA011	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	82	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	75	4005	0	-	-	0.0	-	179	206	-	36821	93%	3%	4%
OLA012	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	34	3897	0	-90	-89	2.4	7	179	204	204	36821	93%	3%	4%
OLA013	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	3838	0	-	-	0.0	-	179	204	-	36821	93%	3%	4%
OLA014	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	82	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	3835	0	82	90	2.0	4	179	203	203	36821	93%	3%	4%
OLA015	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	82	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	37	3757	0	82	90	2.0	6	179	202	202	36821	93%	3%	4%
OLA016	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	82	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	77	3718	0	-	-	0.0	-	179	200	-	36821	93%	3%	4%
OLA017	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	3463	0	-90	-88	1.9	7	179	196	196	36821	93%	3%	4%
OLA018	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	3428	0	-90	-89	1.9	2	179	196	196	36821	93%	3%	4%
OLA019	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	53	3385	0	-	-	0.0	-	179	197	-	36821	93%	3%	4%
OLA020	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	3294	0	-90	-88	2.0	8	179	197	197	36821	93%	3%	4%
OLA021	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	61	3245	0	-	-	0.0	-	179	200	-	36821	93%	3%	4%
OLA022	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-83	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	3102	0	-90	-83	9.0	3	179	200	200	36821	93%	3%	4%
OLA023	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	86	3091	0	-	-	0.0	-	179	199	-	36821	93%	3%	4%
OLA024	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	2904	0	-	-	0.0	-	179	193	-	36821	93%	3%	4%
OLA025	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	2828	0	-90	-86	1.8	5	179	191	192	36821	93%	3%	4%
OLA026	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	78	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	66	2458	0	78	90	6.0	3	179	183	183	36821	93%	3%	4%
OLA027	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	37	2396	0	-89	-88	2.5	26	179	185	184	36821	93%	3%	4%
OLA028	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	82	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	2378	0	-	-	0.0	-	179	182	-	36821	93%	3%	4%
OLA029	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	2337	0	-	-	0.0	-	179	185	-	36821	93%	3%	4%
OLA030	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	-75	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	2295	0	-	-	0.0	-	179	184	-	36821	93%	3%	4%
OLA031	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	53	2304	0	-	-	0.0	-	179	182	-	36821	93%	3%	4%
OLA032	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	74	2229	0	-	-	0.0	-	179	181	-	36821	93%	3%	4%
OLA033	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-69	-56	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	2211	0	-	-	0.0	-	179	182	-	36821	93%	3%	4%
OLA034	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	2211	0	-	-	0.0	-	179	182	-	36821	93%	3%	4%
OLA035	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	2132	0	-	-	0.0	-	179	182	-	36821	93%	3%	4%
OLA036	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-56	-43	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	2153	0	-	-	0.0	-	179	182	-	36821	93%	3%	4%
OLA037	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	2087	0	-	-	0.0	-	179	182	-	36821	93%	3%	4%
OLA038	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-45	-32	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	25	2101	0	-	-	0.0	-	179	182	-	36821	93%	3%	4%
OLA039	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	2045	0	-	-	0.0	-	179	181	-	36821	93%	3%	4%
OLA040	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-32	-19	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	24	2064	0	-	-	0.0	-	179	183	-	36821	93%	3%	4%
OLA041	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	46	2002	0	-	-	0.0	-	179	181	-	36821	93%	3%	4%
OLA042	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	1990	0	-	-	0.0	-	179	182	-	36821	93%	3%	4%
OLA043	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-30	-17	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	2037	0	-30	-17	1.8	12	179	183	182	36821	93%	3%	4%
OLA044	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	41	1962	0	-	-	0.0	-	179	182	-	36821	93%	3%	4%
OLA045	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	1937	0	-	-	0.0	-	179	183	-	36821	93%	3%	4%
OLA046	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-33	-21	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	1991	0	-	-	0.0	-	179	185	-	36821	93%	3%	4%
OLA047	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	1888	0	-	-	0.0	-	179	183	-	36821	93%	3%	4%
OLA048	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-51	-40	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	1889	0	-51	-40	2.0	10	179	184	184	36821	93%	3%	4%
OLA049	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-56	-45	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	1866	0	-56	-45	2.0	25	179	184	185	36821	93%	3%	4%
OLA050	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	36	1834	0	-	-	0.0	-	179	185	-	36821	93%	3%	4%
OLA051	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-66	-54	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	24	1809	0	-66	-54	2.0	11	179	184	185	36821	93%	3%	4%
OLA052	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	1780	0	-	-	0.0	-	179	185	-	36821	93%	3%	4%
OLA053	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-72	-61	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	1763	0	-72	-61	2.0	19	179	184	185	36821	93%	3%	4%
OLA054	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-79	-68	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	25	1710	0	-79	-68	2.0	12	179	184	186	36821	93%	3%	4%
OLA055	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	46	1715	0	-	-	0.0	-	179	185	-	36821	93%	3%	4%
OLA056	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-83	-71	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	1657	0	-83	-71	2.0	13	179	185	186	36821	93%	3%	4%
OLA057	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	46	1660	0	-	-	0.0	-	179	185	-	36821	93%	3%	4%
OLA058	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-83	-71	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	23	1602	0	-83	-71	2.0	10	179	185	186	36821	93%	3%	4%

OLA059	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	1594	0	-	-	0.0	-	179	185	-	36821	93%	3%	4%
OLA060	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-82	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	1548	0	-82	-70	1.8	15	179	186	186	36821	93%	3%	4%
OLA061	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	1518	0	-	-	0.0	-	179	184	-	36821	93%	3%	4%
OLA062	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-82	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	20	1491	0	-82	-70	1.8	7	179	186	185	36821	93%	3%	4%
OLA063	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	27	1455	0	-	-	0.0	-	179	185	-	36821	93%	3%	4%
OLA064	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-79	-67	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	1444	0	-79	-67	1.8	6	179	186	185	36821	93%	3%	4%
OLA065	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	34	1377	0	-	-	0.0	-	179	183	-	36821	93%	3%	4%
OLA066	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	47	1322	0	-	-	0.0	-	179	183	-	36821	93%	3%	4%
OLA067	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-79	-67	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	1269	0	-79	-67	1.8	14	179	181	182	36821	93%	3%	4%
OLA068	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	44	1237	0	-	-	0.0	-	179	180	-	36821	93%	3%	4%
OLA069	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-79	-67	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	1196	0	-79	-67	1.8	31	179	181	180	36821	93%	3%	4%
OLA070	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-79	-66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	1147	0	-79	-66	1.8	17	179	179	178	36821	93%	3%	4%
OLA071	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	42	1145	0	-	-	0.0	-	179	178	-	36821	93%	3%	4%
OLA072	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	1077	0	-	-	0.0	-	179	177	-	36821	93%	3%	4%
OLA073	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-79	-66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	1062	0	-79	-66	1.9	10	179	177	177	36821	93%	3%	4%
OLA074	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	55	995	0	-	-	0.0	-	179	176	-	36821	93%	3%	4%
OLA075	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-88	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	55	973	0	-	-	0.0	-	179	175	-	36821	93%	3%	4%
OLA076	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	65	908	0	-	-	0.0	-	179	175	-	36821	93%	3%	4%
OLA077	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	80	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	35	694	0	80	90	6.0	3	179	174	174	36821	93%	3%	4%
OLA078	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	668	0	-90	-75	6.0	3	179	172	172	36821	93%	3%	4%
OLA079	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	615	0	-	-	0.0	-	179	175	-	36821	93%	3%	4%
OLA080	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	-67	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	602	0	-86	-79	1.7	30	179	174	174	36821	93%	3%	4%
OLA081	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	87	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	67	569	0	-	-	0.0	-	179	175	-	36821	93%	3%	4%
OLA082	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-62	-52	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	262	0	-62	-52	1.8	15	179	181	181	36821	93%	3%	4%
OLA083	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-63	-55	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	215	0	-63	-55	2.0	13	179	182	182	36821	93%	3%	4%
OLA084	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-66	-65	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	32	167	0	-66	-65	1.6	18	179	183	182	36821	93%	3%	4%
OLA085	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-83	-64	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	60	0	-83	-64	2.6	8	179	182	181	36821	93%	3%	4%
OLA086	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	72	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	66	472	0	72	90	2.0	19	188	193	194	36821	93%	3%	4%
OLA087	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	76	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	50	505	0	76	90	2.0	55	188	194	194	36821	93%	3%	4%
OLA088	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	74	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	73	535	0	74	90	6.0	21	188	194	194	36821	93%	3%	4%
OLA089	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	81	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	750	0	-	-	0.0	-	188	205	-	36821	93%	3%	4%
OLA090	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	79	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	69	781	0	-	-	0.0	-	188	205	-	36821	93%	3%	4%
OLA091	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	84	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	1148	0	-	-	0.0	-	188	203	-	36821	93%	3%	4%
OLA092	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	85	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	1292	0	-	-	0.0	-	188	203	-	36821	93%	3%	4%
OLA093	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	84	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	1390	0	84	90	1.7	17	188	202	201	36821	93%	3%	4%
OLA094	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	70	84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	1562	0	-	-	0.0	-	188	202	-	36821	93%	3%	4%
OLA095	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	67	81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	65	1632	0	-	-	0.0	-	188	202	-	36821	93%	3%	4%
OLA096	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	102	1616	0	-	-	0.0	-	188	202	-	36821	93%	3%	4%
OLA097	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	57	70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	1679	0	57	70	1.8	5	188	202	201	36821	93%	3%	4%
OLA098	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	57	70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	1724	0	57	70	1.8	4	188	202	202	36821	93%	3%	4%
OLA099	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	60	71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	1845	0	-	-	0.0	-	188	201	-	36821	93%	3%	4%
OLA100	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	2263	0	-	-	0.0	-	188	202	-	36821	93%	3%	4%
OLA101	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	2332	0	-	-	0.0	-	188	201	-	36821	93%	3%	4%
OLA102	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	82	2528	0	-	-	0.0	-	188	198	-	36821	93%	3%	4%
OLA103	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	74	2698	0	-	-	0.0	-	188	197	-	36821	93%	3%	4%
OLA104	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-72	-66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	102	2895	0	-	-	0.0	-	188	196	-	36821	93%	3%	4%

Mature State of Development - 2041 S04_NB Kennedy Road Highway 407 14th Avenue

POR	Posted Speed Limit (km/hr)	Road Grade (%)		Road Grade Mode		Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)		Topography		Wood Depth	No of Row of Houses	Density of 1st Row		Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	-88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	162	5215	0	-89	-88	2.0	7	188	209	209	28590	93%	4%	3%
OLA002	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	5148	0	-	-	0.0	-	188	207	-	28590	93%	4%	3%
OLA003	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	88	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	5128	0	88	89	2.0	4	188	207	206	28590	93%	4%	3%
OLA004	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	68	5034	0	-	-	0.0	-	188	207	-	28590	93%	4%	3%
OLA005	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	88	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	41	4992	0	88	89	2.2	5	188	208	207	28590	93%	4%	3%
OLA006	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	4957	0	-90	-89	2.1	6	188	207	207	28590	93%	4%	3%
OLA007	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	4960	0	89	90	2.1	5	188	208	207	28590	93%	4%	3%
OLA008	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	4886	0	-90	-90	2.0	12	188	207	207	28590	93%	4%	3%
OLA009	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	35	4884	0	89	90	2.1	5	188	207	207	28590	93%	4%	3%
OLA010	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	36	4785	0	-90	-89	1.9	8	188	206	206	28590	93%	4%	3%
OLA011	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	88	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	75	4791	0	-	-	0.0	-	188	206	-	28590	93%	4%	3%
OLA012	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	4697	0	-90	-89	2.4	7	188	204	204	28590	93%	4%	3%
OLA013	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	4638	0	-	-	0.0	-	188	204	-	28590	93%	4%	3%
OLA014	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	33	4624	0	89	90	2.0	4	188	203	203	28590	93%	4%	3%
OLA015	70	2.3%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	37	4545	0	89	90	2.0	6	188	202	202	28590	93%	4%	3%
OLA016	70	2.3%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	77	4500	0	-	-	0.0	-	188	200	-	28590	93%	4%	3%
OLA017	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	-88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	4259	0	-89	-88	1.9	7	188	196	196	28590	93%	4%	3%
OLA018	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	4223	0	-90	-89	1.9	2	188	196	196	28590	93%	4%	3%
OLA019	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	-88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	4184	0	-	-	0.0	-	188	197	-	28590	93%	4%	3%
OLA020	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	32	4089	0	-90	-88	2.0	8	188	197	197	28590	93%	4%	3%
OLA021	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	-88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	4044	0	-	-	0.0	-	188	200	-	28590	93%	4%	3%
OLA022	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-84	-83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	35	3897	0	-84	-83	9.0	3	188	200	200	28590	93%	4%	3%
OLA023	70	4.3%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	86	3865	0	-	-	0.0	-	188	199	-	28590	93%	4%	3%
OLA024	70	4.3%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	3682	0	-	-	0.0	-	188	193	-	28590	93%	4%	3%
OLA025	70	4.3%	2	Manual	1	Typical Asphalt or Concrete	-88	-86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	3618	0	-88	-86	1.8	5	188	191	192	28590	93%	4%	3%
OLA026	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	66	3223	0	89	90	6.0	3	188	183	183	28590	93%	4%	3%
OLA027	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	37	3182	0	-89	-88	2.5	26	188	185	184	28590	93%	4%	3%
OLA028	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	3145	0	-	-	0.0	-	188	182	-	28590	93%	4%	3%
OLA029	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	3123	0	-	-	0.0	-	188	185	-	28590	93%	4%	3%
OLA030	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	3081	0	-	-	0.0	-	188	184	-	28590	93%	4%	3%
OLA031	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	3069	0	-	-	0.0	-	188	182	-	28590	93%	4%	3%
OLA032	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	74	2992	0	-	-	0.0	-	188	181	-	28590	93%	4%	3%
OLA033	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-58	-56	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	3000	0	-	-	0.0	-	188	182	-	28590	93%	4%	3%
OLA034	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	2984	0	-	-	0.0	-	188	182	-	28590	93%	4%	3%
OLA035	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	47	2913	0	-	-	0.0	-	188	182	-	28590	93%	4%	3%
OLA036	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-45	-43	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	2950	0	-	-	0.0	-	188	182	-	28590	93%	4%	3%
OLA037	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	2878	0	-	-	0.0	-	188	182	-	28590	93%	4%	3%
OLA038	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-35	-32	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	2908	0	-	-	0.0	-	188	182	-	28590	93%	4%	3%
OLA039	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	2844	0	-	-	0.0	-	188	181	-	28590	93%	4%	3%
OLA040	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-21	-19	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	24	2881	0	-	-	0.0	-	188	183	-	28590	93%	4%	3%
OLA041	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	2814	0	-	-	0.0	-	188	181	-	28590	93%	4%	3%
OLA042	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	2808	0	-	-	0.0	-	188	182	-	28590	93%	4%	3%
OLA043	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-20	-17	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	2866	0	-20	-17	1.8	12	188	183	182	28590	93%	4%	3%
OLA044	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	41	2792	0	-	-	0.0	-	188	182	-	28590	93%	4%	3%
OLA045	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	2776	0	-	-	0.0	-	188	183	-	28590	93%	4%	3%
OLA046	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-24	-21	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	2838	0	-	-	0.0	-	188	185	-	28590	93%	4%	3%
OLA047	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	48	2739	0	-	-	0.0	-	188	183	-	28590	93%	4%	3%
OLA048	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-44	-40	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	32	2761	0	-44	-40	2.0	10	188	184	184	28590	93%	4%	3%
OLA049	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-49	-45	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	2743	0	-49	-45	2.0	25	188	184	185	28590	93%	4%	3%
OLA050	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	2698	0	-	-	0.0	-	188	185	-	28590	93%	4%	3%
OLA051	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-58	-54	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	24	2690	0	-58	-54	2.0	11	188	184	185	28590	93%	4%	3%
OLA052	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	2650	0	-	-	0.0	-	188	185	-	28590	93%	4%	3%
OLA053	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-66	-61	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	32	2650	0	-66	-61	2.0	19	188	184	185	28590	93%	4%	3%
OLA054	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-68	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	2599	0	-73	-68	2.0	12	188	184	186	28590	93%	4%	3%
OLA055	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	2589	0	-	-	0.0	-	188	185	-	28590	93%	4%	3%
OLA056	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-76	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	2549	0	-76	-71	2.0	13	188	185	186	28590	93%	4%	3%
OLA057	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	2537	0	-	-	0.0	-	188	185	-	28590	93%	4%	3%
OLA058	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-76	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	23	2496	0	-76	-71	2.0	10	188	185	186	28590	93%	4%	3%

OLA059	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	2475	0	-	-	0.0	-	188	185	-	28590	93%	4%	3%
OLA060	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	2445	0	-75	-70	1.8	15	188	186	186	28590	93%	4%	3%
OLA061	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	2401	0	-	-	0.0	-	188	184	-	28590	93%	4%	3%
OLA062	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	20	2390	0	-75	-70	1.8	7	188	186	185	28590	93%	4%	3%
OLA063	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	27	2346	0	-	-	0.0	-	188	185	-	28590	93%	4%	3%
OLA064	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-67	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	2350	0	-73	-67	1.8	6	188	186	185	28590	93%	4%	3%
OLA065	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	34	2270	0	-	-	0.0	-	188	183	-	28590	93%	4%	3%
OLA066	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	47	2215	0	-	-	0.0	-	188	183	-	28590	93%	4%	3%
OLA067	70	2.5%	2	Manual	1	Typical Asphalt or Concrete	-74	-67	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	2186	0	-74	-67	1.8	14	188	181	182	28590	93%	4%	3%
OLA068	70	2.5%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	44	2136	0	-	-	0.0	-	188	180	-	28590	93%	4%	3%
OLA069	70	2.5%	2	Manual	1	Typical Asphalt or Concrete	-73	-67	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	2118	0	-73	-67	1.8	31	188	181	180	28590	93%	4%	3%
OLA070	70	2.5%	2	Manual	1	Typical Asphalt or Concrete	-73	-66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	2069	0	-73	-66	1.8	17	188	179	178	28590	93%	4%	3%
OLA071	70	2.5%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	42	2050	0	-	-	0.0	-	188	178	-	28590	93%	4%	3%
OLA072	70	2.5%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	1986	0	-	-	0.0	-	188	177	-	28590	93%	4%	3%
OLA073	70	2.5%	2	Manual	1	Typical Asphalt or Concrete	-74	-66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	1989	0	-74	-66	1.9	10	188	177	177	28590	93%	4%	3%
OLA074	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	55	1906	0	-	-	0.0	-	188	176	-	28590	93%	4%	3%
OLA075	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-83	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	55	1912	0	-	-	0.0	-	188	175	-	28590	93%	4%	3%
OLA076	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	65	1850	0	-	-	0.0	-	188	175	-	28590	93%	4%	3%
OLA077	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	35	1603	0	-	-	0.0	-	188	174	-	28590	93%	4%	3%
OLA078	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-84	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	1608	0	-84	-75	6.0	3	188	172	172	28590	93%	4%	3%
OLA079	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	1522	0	-	-	0.0	-	188	175	-	28590	93%	4%	3%
OLA080	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-67	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	1534	0	-	-	0.0	-	188	174	-	28590	93%	4%	3%
OLA081	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	67	1472	0	-	-	0.0	-	188	175	-	28590	93%	4%	3%
OLA082	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-67	-52	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	1239	0	-67	-52	1.8	15	188	181	181	28590	93%	4%	3%
OLA083	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-70	-55	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	1195	0	-70	-55	2.0	13	188	182	182	28590	93%	4%	3%
OLA084	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-65	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	32	1149	0	-81	-65	1.6	18	188	183	182	28590	93%	4%	3%
OLA085	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	1039	0	-90	-83	2.6	8	188	182	181	28590	93%	4%	3%
OLA086	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-80	72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	66	66	0	13	72	2.0	19	190	193	194	28590	93%	4%	3%
OLA087	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	50	50	0	53	76	2.0	55	191	194	194	28590	93%	4%	3%
OLA088	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-76	74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	73	73	0	40	74	6.0	21	193	194	194	28590	93%	4%	3%
OLA089	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-59	81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	33	0	-55	40	3.0	3	204	205	205	28590	93%	4%	3%
OLA090	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-24	79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	69	69	0	-	-	0.0	-	204	205	-	28590	93%	4%	3%
OLA091	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	84	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	348	0	-	-	0.0	-	204	203	-	28590	93%	4%	3%
OLA092	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	85	87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	492	0	-	-	0.0	-	204	203	-	28590	93%	4%	3%
OLA093	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	84	86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	591	0	84	86	1.7	17	204	202	201	28590	93%	4%	3%
OLA094	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	70	72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	762	0	-	-	0.0	-	204	202	-	28590	93%	4%	3%
OLA095	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	67	70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	65	833	0	-	-	0.0	-	204	202	-	28590	93%	4%	3%
OLA096	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	102	834	0	-	-	0.0	-	204	202	-	28590	93%	4%	3%
OLA097	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	57	62	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	884	0	57	62	1.8	5	204	202	201	28590	93%	4%	3%
OLA098	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	57	62	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	929	0	57	62	1.8	4	204	202	202	28590	93%	4%	3%
OLA099	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	60	66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	1057	0	-	-	0.0	-	204	201	-	28590	93%	4%	3%
OLA100	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	1509	0	-	-	0.0	-	204	202	-	28590	93%	4%	3%
OLA101	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	1581	0	-	-	0.0	-	204	201	-	28590	93%	4%	3%
OLA102	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	82	1789	0	-	-	0.0	-	204	198	-	28590	93%	4%	3%
OLA103	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	74	1957	0	-	-	0.0	-	204	197	-	28590	93%	4%	3%
OLA104	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-72	-65	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	102	2149	0	-	-	0.0	-	204	196	-	28590	93%	4%	3%

Mature State of Development - 2041 S05_NBa Kennedy Road 14th Avenue Denison Street

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode		Road Pavement		Angle 1 (degrees)	Angle 2 (degrees)	Topography		Wood Depth		No of Row of Houses	Density of 1st Row	Intermediate Surface		Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	162	6007	0	-	-	0.0	-	204	209	-	25573	93%	4%	3%
OLA002	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	5942	0	-	-	0.0	-	204	207	-	25573	93%	4%	3%
OLA003	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	88	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	5924	0	88	89	2.0	4	204	207	206	25573	93%	4%	3%
OLA004	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	68	5830	0	-	-	0.0	-	204	207	-	25573	93%	4%	3%
OLA005	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	88	88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	41	5788	0	88	88	2.2	5	204	208	207	25573	93%	4%	3%
OLA006	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	5752	0	-	-	0.0	-	204	207	-	25573	93%	4%	3%
OLA007	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	5756	0	89	89	2.1	5	204	208	207	25573	93%	4%	3%
OLA008	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	5681	0	-	-	0.0	-	204	207	-	25573	93%	4%	3%
OLA009	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	35	5680	0	89	90	2.1	5	204	207	207	25573	93%	4%	3%
OLA010	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	36	5580	0	-	-	0.0	-	204	206	-	25573	93%	4%	3%
OLA011	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	88	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	75	5587	0	-	-	0.0	-	204	206	-	25573	93%	4%	3%
OLA012	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	5491	0	-	-	0.0	-	204	204	-	25573	93%	4%	3%
OLA013	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	5432	0	-	-	0.0	-	204	204	-	25573	93%	4%	3%
OLA014	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	33	5420	0	89	89	2.0	4	204	203	203	25573	93%	4%	3%
OLA015	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	37	5341	0	89	90	2.0	6	204	202	202	25573	93%	4%	3%
OLA016	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	77	5297	0	-	-	0.0	-	204	200	-	25573	93%	4%	3%
OLA017	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	5053	0	-89	-89	1.9	7	204	196	196	25573	93%	4%	3%
OLA018	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	5018	0	-	-	0.0	-	204	196	-	25573	93%	4%	3%
OLA019	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	4978	0	-	-	0.0	-	204	197	-	25573	93%	4%	3%
OLA020	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	32	4883	0	-90	-90	2.0	8	204	197	197	25573	93%	4%	3%
OLA021	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	4838	0	-	-	0.0	-	204	200	-	25573	93%	4%	3%
OLA022	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-84	-84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	35	4691	0	-84	-84	9.0	3	204	200	200	25573	93%	4%	3%
OLA023	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	86	4662	0	-	-	0.0	-	204	199	-	25573	93%	4%	3%
OLA024	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	4478	0	-	-	0.0	-	204	193	-	25573	93%	4%	3%
OLA025	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-88	-88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	4413	0	-88	-88	1.8	5	204	191	192	25573	93%	4%	3%
OLA026	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	66	4019	0	89	89	6.0	3	204	183	183	25573	93%	4%	3%
OLA027	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	37	3976	0	-	-	0.0	-	204	185	-	25573	93%	4%	3%
OLA028	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	3941	0	-	-	0.0	-	204	182	-	25573	93%	4%	3%
OLA029	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	3917	0	-	-	0.0	-	204	185	-	25573	93%	4%	3%
OLA030	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	3875	0	-	-	0.0	-	204	184	-	25573	93%	4%	3%
OLA031	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	3865	0	-	-	0.0	-	204	182	-	25573	93%	4%	3%
OLA032	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	74	3788	0	-	-	0.0	-	204	181	-	25573	93%	4%	3%
OLA033	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-58	-58	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	3793	0	-	-	0.0	-	204	182	-	25573	93%	4%	3%
OLA034	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	3779	0	-	-	0.0	-	204	182	-	25573	93%	4%	3%
OLA035	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	47	3707	0	-	-	0.0	-	204	182	-	25573	93%	4%	3%
OLA036	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-45	-45	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	3741	0	-	-	0.0	-	204	182	-	25573	93%	4%	3%
OLA037	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	3670	0	-	-	0.0	-	204	182	-	25573	93%	4%	3%
OLA038	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-35	-35	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	3698	0	-	-	0.0	-	204	182	-	25573	93%	4%	3%
OLA039	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	3635	0	-	-	0.0	-	204	181	-	25573	93%	4%	3%
OLA040	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-22	-21	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	24	3669	0	-	-	0.0	-	204	183	-	25573	93%	4%	3%
OLA041	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	3602	0	-	-	0.0	-	204	181	-	25573	93%	4%	3%
OLA042	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	3595	0	-	-	0.0	-	204	182	-	25573	93%	4%	3%
OLA043	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-21	-20	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	3651	0	-21	-20	1.8	12	204	183	182	25573	93%	4%	3%
OLA044	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	41	3576	0	-	-	0.0	-	204	182	-	25573	93%	4%	3%
OLA045	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	3559	0	-	-	0.0	-	204	183	-	25573	93%	4%	3%
OLA046	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-25	-24	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	3618	0	-	-	0.0	-	204	185	-	25573	93%	4%	3%
OLA047	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	48	3518	0	-	-	0.0	-	204	183	-	25573	93%	4%	3%
OLA048	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-45	-44	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	32	3534	0	-45	-44	2.0	10	204	184	184	25573	93%	4%	3%
OLA049	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-50	-49	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	3513	0	-50	-49	2.0	25	204	184	185	25573	93%	4%	3%
OLA050	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	3473	0	-	-	0.0	-	204	185	-	25573	93%	4%	3%
OLA051	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-60	-58	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	24	3459	0	-60	-58	2.0	11	204	184	185	25573	93%	4%	3%
OLA052	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	3423	0	-	-	0.0	-	204	185	-	25573	93%	4%	3%
OLA053	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-67	-66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	32	3416	0	-67	-66	2.0	19	204	184	185	25573	93%	4%	3%
OLA054	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-74	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	3365	0	-74	-73	2.0	12	204	184	186	25573	93%	4%	3%
OLA055	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	3360	0	-	-	0.0	-	204	185	-	25573	93%	4%	3%
OLA056	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-78	-76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	3313	0	-78	-76	2.0	13	204	185	186	25573	93%	4%	3%
OLA057	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	3306	0	-	-	0.0	-	204	185	-	25573	93%	4%	3%
OLA058	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-78	-76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	23	3259	0	-78	-76	2.0	10	204	185	186	25573	93%	4%	3%

OLA059	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	3243	0	-	-	0.0	-	204	185	-	25573	93%	4%	3%
OLA060	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	3207	0	-77	-75	1.8	15	204	186	186	25573	93%	4%	3%
OLA061	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	3168	0	-	-	0.0	-	204	184	-	25573	93%	4%	3%
OLA062	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	20	3150	0	-77	-75	1.8	7	204	186	185	25573	93%	4%	3%
OLA063	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	27	3109	0	-	-	0.0	-	204	185	-	25573	93%	4%	3%
OLA064	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	3107	0	-75	-73	1.8	6	204	186	185	25573	93%	4%	3%
OLA065	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	34	3032	0	-	-	0.0	-	204	183	-	25573	93%	4%	3%
OLA066	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	47	2977	0	-	-	0.0	-	204	183	-	25573	93%	4%	3%
OLA067	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	2937	0	-75	-74	1.8	14	204	181	182	25573	93%	4%	3%
OLA068	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	44	2895	0	-	-	0.0	-	204	180	-	25573	93%	4%	3%
OLA069	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	2865	0	-75	-73	1.8	31	204	181	180	25573	93%	4%	3%
OLA070	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	2816	0	-75	-73	1.8	17	204	179	178	25573	93%	4%	3%
OLA071	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	42	2805	0	-	-	0.0	-	204	178	-	25573	93%	4%	3%
OLA072	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	2739	0	-	-	0.0	-	204	177	-	25573	93%	4%	3%
OLA073	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-76	-74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	2733	0	-76	-74	1.9	10	204	177	177	25573	93%	4%	3%
OLA074	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	55	2658	0	-	-	0.0	-	204	176	-	25573	93%	4%	3%
OLA075	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	-83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	55	2648	0	-	-	0.0	-	204	175	-	25573	93%	4%	3%
OLA076	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	65	2584	0	-	-	0.0	-	204	175	-	25573	93%	4%	3%
OLA077	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	35	2352	0	90	90	6.0	3	204	174	174	25573	93%	4%	3%
OLA078	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	2341	0	-87	-84	6.0	3	204	172	172	25573	93%	4%	3%
OLA079	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	2270	0	-	-	0.0	-	204	175	-	25573	93%	4%	3%
OLA080	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-79	-77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	2271	0	-79	-79	1.7	30	204	174	174	25573	93%	4%	3%
OLA081	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	67	2221	0	-	-	0.0	-	204	175	-	25573	93%	4%	3%
OLA082	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-71	-67	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	1939	0	-71	-67	1.8	15	204	181	181	25573	93%	4%	3%
OLA083	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-74	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	1892	0	-74	-70	2.0	13	204	182	182	25573	93%	4%	3%
OLA084	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-85	-81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	32	1840	0	-85	-81	1.6	18	204	183	182	25573	93%	4%	3%
OLA085	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	1727	0	-	-	0.0	-	204	182	-	25573	93%	4%	3%
OLA086	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	-80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	66	352	0	-	-	0.0	-	204	193	-	25573	93%	4%	3%
OLA087	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	-81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	50	312	0	-	-	0.0	-	204	194	-	25573	93%	4%	3%
OLA088	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-85	-76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	73	291	0	-	-	0.0	-	204	194	-	25573	93%	4%	3%
OLA089	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-60	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	65	0	-	-	0.0	-	204	205	-	25573	93%	4%	3%
OLA090	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-84	-24	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	69	76	0	-	-	0.0	-	204	205	-	25573	93%	4%	3%
OLA091	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-82	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	40	0	-45	45	3.0	3	203	203	203	25573	93%	4%	3%
OLA092	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-80	87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	30	0	-80	-30	3.0	3	202	203	203	25573	93%	4%	3%
OLA093	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-69	86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	34	0	-34	86	1.7	17	201	202	201	25573	93%	4%	3%
OLA094	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	52	72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	89	0	-	-	0.0	-	201	202	-	25573	93%	4%	3%
OLA095	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	60	70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	65	157	0	-	-	0.0	-	201	202	-	25573	93%	4%	3%
OLA096	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	102	204	0	-	-	0.0	-	201	202	-	25573	93%	4%	3%
OLA097	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	62	70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	208	0	62	70	1.8	5	201	202	201	25573	93%	4%	3%
OLA098	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	62	68	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	252	0	62	68	1.8	4	201	202	202	25573	93%	4%	3%
OLA099	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	66	78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	391	0	-	-	0.0	-	201	201	-	25573	93%	4%	3%
OLA100	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	885	0	-	-	0.0	-	201	202	-	25573	93%	4%	3%
OLA101	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	957	0	-	-	0.0	-	201	201	-	25573	93%	4%	3%
OLA102	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	82	1176	0	-	-	0.0	-	201	198	-	25573	93%	4%	3%
OLA103	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-63	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	74	1335	0	-	-	0.0	-	201	197	-	25573	93%	4%	3%
OLA104	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-65	-57	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	102	1518	0	-	-	0.0	-	201	196	-	25573	93%	4%	3%

Mature State of Development - 2041 S05_NBb Kennedy Road 14th Avenue Denison Street

POR	Posted Speed Limit (km/hr)	Road Grade (%)		Road Grade Mode		Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)		Topography		Wood Depth	No of Row of Houses	Density of 1st Row		Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	162	6686	0	-89	-89	2.0	7	201	209	209	25573	93%	4%	3%
OLA002	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	6621	0	-	-	0.0	-	201	207	-	25573	93%	4%	3%
OLA003	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	6602	0	89	89	2.0	4	201	207	206	25573	93%	4%	3%
OLA004	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	68	6509	0	-	-	0.0	-	201	207	-	25573	93%	4%	3%
OLA005	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	88	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	41	6466	0	88	89	2.2	5	201	208	207	25573	93%	4%	3%
OLA006	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	6431	0	-90	-90	2.1	6	201	207	207	25573	93%	4%	3%
OLA007	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	6435	0	89	89	2.1	5	201	208	207	25573	93%	4%	3%
OLA008	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	6359	0	-	-	0.0	-	201	207	-	25573	93%	4%	3%
OLA009	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	35	6359	0	90	90	2.1	5	201	207	207	25573	93%	4%	3%
OLA010	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	36	6258	0	-	-	0.0	-	201	206	-	25573	93%	4%	3%
OLA011	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	75	6266	0	-	-	0.0	-	201	206	-	25573	93%	4%	3%
OLA012	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	6170	0	-90	-90	2.4	7	201	204	204	25573	93%	4%	3%
OLA013	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	6111	0	-	-	0.0	-	201	204	-	25573	93%	4%	3%
OLA014	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	33	6098	0	89	89	2.0	4	201	203	203	25573	93%	4%	3%
OLA015	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	37	6020	0	90	90	2.0	6	201	202	202	25573	93%	4%	3%
OLA016	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	77	5975	0	-	-	0.0	-	201	200	-	25573	93%	4%	3%
OLA017	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	5732	0	-89	-89	1.9	7	201	196	196	25573	93%	4%	3%
OLA018	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	5696	0	-90	-89	1.9	2	201	196	196	25573	93%	4%	3%
OLA019	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	5656	0	-	-	0.0	-	201	197	-	25573	93%	4%	3%
OLA020	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	32	5562	0	-90	-89	2.0	8	201	197	197	25573	93%	4%	3%
OLA021	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	5517	0	-	-	0.0	-	201	200	-	25573	93%	4%	3%
OLA022	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-84	-84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	35	5370	0	-84	-84	9.0	3	201	200	200	25573	93%	4%	3%
OLA023	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	86	5340	0	-	-	0.0	-	201	199	-	25573	93%	4%	3%
OLA024	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	5157	0	-	-	0.0	-	201	193	-	25573	93%	4%	3%
OLA025	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-88	-87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	5091	0	-88	-87	1.8	5	201	191	192	25573	93%	4%	3%
OLA026	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	66	4698	0	89	90	6.0	3	201	183	183	25573	93%	4%	3%
OLA027	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	37	4654	0	-	-	0.0	-	201	185	-	25573	93%	4%	3%
OLA028	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	4620	0	-	-	0.0	-	201	182	-	25573	93%	4%	3%
OLA029	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	4595	0	-	-	0.0	-	201	185	-	25573	93%	4%	3%
OLA030	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	4554	0	-	-	0.0	-	201	184	-	25573	93%	4%	3%
OLA031	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	4544	0	-	-	0.0	-	201	182	-	25573	93%	4%	3%
OLA032	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	74	4467	0	-	-	0.0	-	201	181	-	25573	93%	4%	3%
OLA033	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-58	-58	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	4471	0	-	-	0.0	-	201	182	-	25573	93%	4%	3%
OLA034	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	4457	0	-	-	0.0	-	201	182	-	25573	93%	4%	3%
OLA035	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	47	4386	0	-	-	0.0	-	201	182	-	25573	93%	4%	3%
OLA036	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-45	-45	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	4420	0	-	-	0.0	-	201	182	-	25573	93%	4%	3%
OLA037	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	4349	0	-	-	0.0	-	201	182	-	25573	93%	4%	3%
OLA038	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-35	-35	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	4376	0	-	-	0.0	-	201	182	-	25573	93%	4%	3%
OLA039	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	4314	0	-	-	0.0	-	201	181	-	25573	93%	4%	3%
OLA040	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-22	-21	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	24	4347	0	-	-	0.0	-	201	183	-	25573	93%	4%	3%
OLA041	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	4281	0	-	-	0.0	-	201	181	-	25573	93%	4%	3%
OLA042	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	4273	0	-	-	0.0	-	201	182	-	25573	93%	4%	3%
OLA043	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-21	-20	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	4329	0	-21	-20	1.8	12	201	183	182	25573	93%	4%	3%
OLA044	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	41	4254	0	-	-	0.0	-	201	182	-	25573	93%	4%	3%
OLA045	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	4236	0	-	-	0.0	-	201	183	-	25573	93%	4%	3%
OLA046	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-25	-24	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	4295	0	-	-	0.0	-	201	185	-	25573	93%	4%	3%
OLA047	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	48	4195	0	-	-	0.0	-	201	183	-	25573	93%	4%	3%
OLA048	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-45	-45	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	32	4209	0	-45	-45	2.0	10	201	184	184	25573	93%	4%	3%
OLA049	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-50	-50	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	4188	0	-50	-50	2.0	25	201	184	185	25573	93%	4%	3%
OLA050	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	4149	0	-	-	0.0	-	201	185	-	25573	93%	4%	3%
OLA051	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-60	-59	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	24	4134	0	-60	-59	2.0	11	201	184	185	25573	93%	4%	3%
OLA052	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	4098	0	-	-	0.0	-	201	185	-	25573	93%	4%	3%
OLA053	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-67	-67	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	32	4090	0	-67	-67	2.0	19	201	184	185	25573	93%	4%	3%
OLA054	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-74	-74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	4038	0	-74	-74	2.0	12	201	184	186	25573	93%	4%	3%
OLA055	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	4035	0	-	-	0.0	-	201	185	-	25573	93%	4%	3%
OLA056	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-78	-77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	3986	0	-78	-77	2.0	13	201	185	186	25573	93%	4%	3%
OLA057	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	3981	0	-	-	0.0	-	201	185	-	25573	93%	4%	3%
OLA058	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-78	-77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	23	3932	0	-78	-77	2.0	10	201	185	186	25573	93%	4%	3%

OLA059	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	3917	0	-	-	0.0	-	201	185	-	25573	93%	4%	3%
OLA060	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	3879	0	-77	-76	1.8	15	201	186	186	25573	93%	4%	3%
OLA061	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	3842	0	-	-	0.0	-	201	184	-	25573	93%	4%	3%
OLA062	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	20	3822	0	-77	-77	1.8	7	201	186	185	25573	93%	4%	3%
OLA063	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	27	3783	0	-	-	0.0	-	201	185	-	25573	93%	4%	3%
OLA064	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	3778	0	-75	-74	1.8	6	201	186	185	25573	93%	4%	3%
OLA065	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	34	3705	0	-	-	0.0	-	201	183	-	25573	93%	4%	3%
OLA066	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	47	3650	0	-	-	0.0	-	201	183	-	25573	93%	4%	3%
OLA067	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	3606	0	-75	-75	1.8	14	201	181	182	25573	93%	4%	3%
OLA068	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	44	3567	0	-	-	0.0	-	201	180	-	25573	93%	4%	3%
OLA069	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	3534	0	-75	-75	1.8	31	201	181	180	25573	93%	4%	3%
OLA070	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	3485	0	-75	-75	1.8	17	201	179	178	25573	93%	4%	3%
OLA071	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	42	3476	0	-	-	0.0	-	201	178	-	25573	93%	4%	3%
OLA072	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	3410	0	-	-	0.0	-	201	177	-	25573	93%	4%	3%
OLA073	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-76	-76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	3401	0	-76	-76	1.9	10	201	177	177	25573	93%	4%	3%
OLA074	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	55	3328	0	-	-	0.0	-	201	176	-	25573	93%	4%	3%
OLA075	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	-86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	55	3314	0	-	-	0.0	-	201	175	-	25573	93%	4%	3%
OLA076	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	65	3249	0	-	-	0.0	-	201	175	-	25573	93%	4%	3%
OLA077	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	35	3023	0	90	90	6.0	3	201	174	174	25573	93%	4%	3%
OLA078	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	3008	0	-87	-87	6.0	3	201	172	172	25573	93%	4%	3%
OLA079	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	2941	0	-	-	0.0	-	201	175	-	25573	93%	4%	3%
OLA080	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-79	-79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	2939	0	-79	-79	1.7	30	201	174	174	25573	93%	4%	3%
OLA081	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	67	2892	0	-	-	0.0	-	201	175	-	25573	93%	4%	3%
OLA082	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-71	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	2600	0	-71	-71	1.8	15	201	181	181	25573	93%	4%	3%
OLA083	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-74	-74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	2552	0	-	-	0.0	-	201	182	-	25573	93%	4%	3%
OLA084	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-85	-85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	32	2499	0	-	-	0.0	-	201	183	-	25573	93%	4%	3%
OLA085	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	2387	0	-	-	0.0	-	201	182	-	25573	93%	4%	3%
OLA086	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	-85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	66	1028	0	-	-	0.0	-	201	193	-	25573	93%	4%	3%
OLA087	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	-85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	50	989	0	-	-	0.0	-	201	194	-	25573	93%	4%	3%
OLA088	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-85	-84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	73	965	0	-	-	0.0	-	201	194	-	25573	93%	4%	3%
OLA089	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	736	0	-	-	0.0	-	201	205	-	25573	93%	4%	3%
OLA090	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-84	-82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	69	714	0	-	-	0.0	-	201	205	-	25573	93%	4%	3%
OLA091	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-82	-81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	336	0	-	-	0.0	-	201	203	-	25573	93%	4%	3%
OLA092	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-80	-79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	190	0	-80	-79	3.0	3	201	203	203	25573	93%	4%	3%
OLA093	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-74	-69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	97	0	-	-	0.0	-	201	202	-	25573	93%	4%	3%
OLA094	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-57	52	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	46	0	-57	43	2.0	12	200	202	201	25573	93%	4%	3%
OLA095	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-8	60	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	65	65	0	-8	15	6.0	3	200	202	202	25573	93%	4%	3%
OLA096	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-31	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	102	114	0	-	-	0.0	-	200	202	-	25573	93%	4%	3%
OLA097	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	66	70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	63	0	66	70	1.8	5	200	202	201	25573	93%	4%	3%
OLA098	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	62	68	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	107	0	62	68	1.8	4	200	202	202	25573	93%	4%	3%
OLA099	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	78	81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	247	0	-	-	0.0	-	200	201	-	25573	93%	4%	3%
OLA100	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	748	0	-90	-87	2.2	7	200	202	202	25573	93%	4%	3%
OLA101	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	820	0	-90	-88	2.1	6	200	201	201	25573	93%	4%	3%
OLA102	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-79	-77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	82	1039	0	-	-	0.0	-	200	198	-	25573	93%	4%	3%
OLA103	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-63	-61	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	74	1196	0	-	-	0.0	-	200	197	-	25573	93%	4%	3%
OLA104	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-57	-56	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	102	1377	0	-	-	0.0	-	200	196	-	25573	93%	4%	3%

Mature State of Development - 2041 S05_NBc Kennedy Road 14th Avenue Denison Street

POR	Posted Speed Limit (km/hr)	Road Grade (%)		Road Grade Mode		Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)		Topography		Wood Depth	No of Row of Houses	Density of 1st Row		Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	-88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	162	6828	0	-89	-88	2.0	7	200	209	209	25573	93%	4%	3%
OLA002	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	6763	0	-	-	0.0	-	200	207	-	25573	93%	4%	3%
OLA003	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	6744	0	89	90	2.0	4	200	207	206	25573	93%	4%	3%
OLA004	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	68	6650	0	-	-	0.0	-	200	207	-	25573	93%	4%	3%
OLA005	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	41	6608	0	89	90	2.2	5	200	208	207	25573	93%	4%	3%
OLA006	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	6572	0	-90	-89	2.1	6	200	207	207	25573	93%	4%	3%
OLA007	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	6576	0	89	90	2.1	5	200	208	207	25573	93%	4%	3%
OLA008	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	6501	0	-90	-90	2.0	12	200	207	207	25573	93%	4%	3%
OLA009	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	35	6500	0	90	90	2.1	5	200	207	207	25573	93%	4%	3%
OLA010	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	36	6400	0	-90	-89	1.9	8	200	206	206	25573	93%	4%	3%
OLA011	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	75	6407	0	-	-	0.0	-	200	206	-	25573	93%	4%	3%
OLA012	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	6312	0	-90	-89	2.4	7	200	204	204	25573	93%	4%	3%
OLA013	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	6253	0	-	-	0.0	-	200	204	-	25573	93%	4%	3%
OLA014	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	33	6240	0	89	90	2.0	4	200	203	203	25573	93%	4%	3%
OLA015	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	37	6161	0	90	90	2.0	6	200	202	202	25573	93%	4%	3%
OLA016	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	77	6117	0	-	-	0.0	-	200	200	-	25573	93%	4%	3%
OLA017	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	-88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	5874	0	-89	-88	1.9	7	200	196	196	25573	93%	4%	3%
OLA018	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	-88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	5838	0	-89	-88	1.9	2	200	196	196	25573	93%	4%	3%
OLA019	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	-88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	5798	0	-	-	0.0	-	200	197	-	25573	93%	4%	3%
OLA020	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	-88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	32	5704	0	-89	-88	2.0	8	200	197	197	25573	93%	4%	3%
OLA021	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	-88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	5658	0	-	-	0.0	-	200	200	-	25573	93%	4%	3%
OLA022	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-84	-83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	35	5512	0	-84	-83	9.0	3	200	200	200	25573	93%	4%	3%
OLA023	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	86	5481	0	-	-	0.0	-	200	199	-	25573	93%	4%	3%
OLA024	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	5298	0	-	-	0.0	-	200	193	-	25573	93%	4%	3%
OLA025	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	5233	0	-87	-86	1.8	5	200	191	192	25573	93%	4%	3%
OLA026	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	66	4839	0	90	90	6.0	3	200	183	183	25573	93%	4%	3%
OLA027	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	37	4796	0	-89	-88	2.5	26	200	185	184	25573	93%	4%	3%
OLA028	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	4761	0	-	-	0.0	-	200	182	-	25573	93%	4%	3%
OLA029	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	-85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	4737	0	-	-	0.0	-	200	185	-	25573	93%	4%	3%
OLA030	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-76	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	4695	0	-	-	0.0	-	200	184	-	25573	93%	4%	3%
OLA031	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	4685	0	-	-	0.0	-	200	182	-	25573	93%	4%	3%
OLA032	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	74	4608	0	-	-	0.0	-	200	181	-	25573	93%	4%	3%
OLA033	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-58	-56	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	4613	0	-	-	0.0	-	200	182	-	25573	93%	4%	3%
OLA034	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	4599	0	-	-	0.0	-	200	182	-	25573	93%	4%	3%
OLA035	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	47	4527	0	-	-	0.0	-	200	182	-	25573	93%	4%	3%
OLA036	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-45	-44	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	4562	0	-	-	0.0	-	200	182	-	25573	93%	4%	3%
OLA037	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	4491	0	-	-	0.0	-	200	182	-	25573	93%	4%	3%
OLA038	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-35	-33	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	4519	0	-	-	0.0	-	200	182	-	25573	93%	4%	3%
OLA039	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	4456	0	-	-	0.0	-	200	181	-	25573	93%	4%	3%
OLA040	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-21	-20	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	24	4490	0	-	-	0.0	-	200	183	-	25573	93%	4%	3%
OLA041	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	4423	0	-	-	0.0	-	200	181	-	25573	93%	4%	3%
OLA042	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	4416	0	-	-	0.0	-	200	182	-	25573	93%	4%	3%
OLA043	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-20	-19	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	4472	0	-20	-19	1.8	12	200	183	182	25573	93%	4%	3%
OLA044	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	41	4397	0	-	-	0.0	-	200	182	-	25573	93%	4%	3%
OLA045	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	4380	0	-	-	0.0	-	200	183	-	25573	93%	4%	3%
OLA046	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-24	-23	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	4439	0	-	-	0.0	-	200	185	-	25573	93%	4%	3%
OLA047	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	48	4339	0	-	-	0.0	-	200	183	-	25573	93%	4%	3%
OLA048	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-45	-44	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	32	4353	0	-45	-44	2.0	10	200	184	184	25573	93%	4%	3%
OLA049	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-50	-48	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	4333	0	-50	-48	2.0	25	200	184	185	25573	93%	4%	3%
OLA050	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	4293	0	-	-	0.0	-	200	185	-	25573	93%	4%	3%
OLA051	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-59	-58	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	24	4278	0	-59	-58	2.0	11	200	184	185	25573	93%	4%	3%
OLA052	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	4243	0	-	-	0.0	-	200	185	-	25573	93%	4%	3%
OLA053	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-67	-66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	32	4235	0	-67	-66	2.0	19	200	184	185	25573	93%	4%	3%
OLA054	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-74	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	4183	0	-74	-73	2.0	12	200	184	186	25573	93%	4%	3%
OLA055	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	4179	0	-	-	0.0	-	200	185	-	25573	93%	4%	3%
OLA056	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	4131	0	-77	-76	2.0	13	200	185	186	25573	93%	4%	3%
OLA057	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	4125	0	-	-	0.0	-	200	185	-	25573	93%	4%	3%
OLA058	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	23	4076	0	-77	-76	2.0	10	200	185	186	25573	93%	4%	3%

OLA059	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	4062	0	-	-	0.0	-	200	185	-	25573	93%	4%	3%
OLA060	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-76	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	4024	0	-76	-75	1.8	15	200	186	186	25573	93%	4%	3%
OLA061	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	3986	0	-	-	0.0	-	200	184	-	25573	93%	4%	3%
OLA062	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	20	3967	0	-77	-76	1.8	7	200	186	185	25573	93%	4%	3%
OLA063	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	27	3927	0	-	-	0.0	-	200	185	-	25573	93%	4%	3%
OLA064	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-74	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	3923	0	-74	-73	1.8	6	200	186	185	25573	93%	4%	3%
OLA065	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	34	3850	0	-	-	0.0	-	200	183	-	25573	93%	4%	3%
OLA066	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	47	3795	0	-	-	0.0	-	200	183	-	25573	93%	4%	3%
OLA067	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	3751	0	-75	-74	1.8	14	200	181	182	25573	93%	4%	3%
OLA068	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	44	3712	0	-	-	0.0	-	200	180	-	25573	93%	4%	3%
OLA069	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	3679	0	-75	-74	1.8	31	200	181	180	25573	93%	4%	3%
OLA070	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	3630	0	-75	-74	1.8	17	200	179	178	25573	93%	4%	3%
OLA071	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	42	3621	0	-	-	0.0	-	200	178	-	25573	93%	4%	3%
OLA072	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	3555	0	-	-	0.0	-	200	177	-	25573	93%	4%	3%
OLA073	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-76	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	3546	0	-76	-75	1.9	10	200	177	177	25573	93%	4%	3%
OLA074	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	55	3473	0	-	-	0.0	-	200	176	-	25573	93%	4%	3%
OLA075	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	-85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	55	3460	0	-	-	0.0	-	200	175	-	25573	93%	4%	3%
OLA076	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	65	3394	0	-	-	0.0	-	200	175	-	25573	93%	4%	3%
OLA077	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	35	3168	0	90	90	6.0	3	200	174	174	25573	93%	4%	3%
OLA078	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	3153	0	-87	-86	6.0	3	200	172	172	25573	93%	4%	3%
OLA079	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	3086	0	-	-	0.0	-	200	175	-	25573	93%	4%	3%
OLA080	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-79	-78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	3084	0	-79	-79	1.7	30	200	174	174	25573	93%	4%	3%
OLA081	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	67	3037	0	-	-	0.0	-	200	175	-	25573	93%	4%	3%
OLA082	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-71	-69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	2745	0	-71	-69	1.8	15	200	181	181	25573	93%	4%	3%
OLA083	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-74	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	2697	0	-74	-73	2.0	13	200	182	182	25573	93%	4%	3%
OLA084	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-85	-84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	32	2644	0	-85	-84	1.6	18	200	183	182	25573	93%	4%	3%
OLA085	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	2532	0	-	-	0.0	-	200	182	-	25573	93%	4%	3%
OLA086	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-85	-81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	66	1172	0	-	-	0.0	-	200	193	-	25573	93%	4%	3%
OLA087	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-85	-81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	50	1132	0	-	-	0.0	-	200	194	-	25573	93%	4%	3%
OLA088	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-84	-80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	73	1109	0	-	-	0.0	-	200	194	-	25573	93%	4%	3%
OLA089	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-85	-80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	880	0	-	-	0.0	-	200	205	-	25573	93%	4%	3%
OLA090	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-82	-78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	69	858	0	-	-	0.0	-	200	205	-	25573	93%	4%	3%
OLA091	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	481	0	-	-	0.0	-	200	203	-	25573	93%	4%	3%
OLA092	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-79	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	336	0	-79	-71	3.0	3	200	203	203	25573	93%	4%	3%
OLA093	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-74	-68	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	241	0	-	-	0.0	-	200	202	-	25573	93%	4%	3%
OLA094	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-70	-57	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	89	0	-69	-57	2.0	12	200	202	201	25573	93%	4%	3%
OLA095	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-64	-8	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	65	65	0	-64	-8	6.0	3	200	202	202	25573	93%	4%	3%
OLA096	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-31	56	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	102	102	0	-	-	0.0	-	200	202	-	25573	93%	4%	3%
OLA097	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-82	66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	22	0	-82	66	1.8	5	200	202	201	25573	93%	4%	3%
OLA098	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-68	62	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	46	0	-68	62	1.8	4	200	202	202	25573	93%	4%	3%
OLA099	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	46	81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	50	0	-	-	0.0	-	201	201	-	25573	93%	4%	3%
OLA100	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	541	0	-87	-85	2.2	7	201	202	202	25573	93%	4%	3%
OLA101	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-88	-87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	613	0	-88	-87	2.1	6	201	201	201	25573	93%	4%	3%
OLA102	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	82	833	0	-	-	0.0	-	201	198	-	25573	93%	4%	3%
OLA103	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-61	-61	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	74	988	0	-	-	0.0	-	201	197	-	25573	93%	4%	3%
OLA104	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-56	-56	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	102	1170	0	-	-	0.0	-	201	196	-	25573	93%	4%	3%

Mature State of Development - 2041 S06_NBa Kennedy Road Denison Street Steeles Avenue

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	162	7012	0	-88	-86	2.0	7	201	209	209	27939	98%	2%	0%
OLA002	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	6944	0	-	-	0.0	-	201	207	-	27939	98%	2%	0%
OLA003	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	6924	0	90	90	2.0	4	201	207	206	27939	98%	2%	0%
OLA004	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	68	6830	0	-	-	0.0	-	201	207	-	27939	98%	2%	0%
OLA005	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	41	6788	0	90	90	2.2	5	201	208	207	27939	98%	2%	0%
OLA006	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	6754	0	-89	-86	2.1	6	201	207	207	27939	98%	2%	0%
OLA007	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	6756	0	-	-	0.0	-	201	208	-	27939	98%	2%	0%
OLA008	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	6682	0	-90	-87	2.0	12	201	207	207	27939	98%	2%	0%
OLA009	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	6680	0	-	-	0.0	-	201	207	-	27939	98%	2%	0%
OLA010	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	36	6581	0	-89	-86	1.9	8	201	206	206	27939	98%	2%	0%
OLA011	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	75	6586	0	-	-	0.0	-	201	206	-	27939	98%	2%	0%
OLA012	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	34	6493	0	-89	-86	2.4	7	201	204	204	27939	98%	2%	0%
OLA013	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	6434	0	-	-	0.0	-	201	204	-	27939	98%	2%	0%
OLA014	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	6420	0	-	-	0.0	-	201	203	-	27939	98%	2%	0%
OLA015	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	37	6341	0	-	-	0.0	-	201	202	-	27939	98%	2%	0%
OLA016	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	77	6296	0	-	-	0.0	-	201	200	-	27939	98%	2%	0%
OLA017	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	-85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	6055	0	-88	-85	1.9	7	201	196	196	27939	98%	2%	0%
OLA018	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	-85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	6020	0	-88	-85	1.9	2	201	196	196	27939	98%	2%	0%
OLA019	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	-84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	53	5980	0	-	-	0.0	-	201	197	-	27939	98%	2%	0%
OLA020	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	-85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	5885	0	-88	-85	2.0	8	201	197	197	27939	98%	2%	0%
OLA021	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	-84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	61	5841	0	-	-	0.0	-	201	200	-	27939	98%	2%	0%
OLA022	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-83	-80	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	5694	0	-83	-80	9.0	3	201	200	200	27939	98%	2%	0%
OLA023	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	86	5661	0	-	-	0.0	-	201	199	-	27939	98%	2%	0%
OLA024	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	5479	0	-	-	0.0	-	201	193	-	27939	98%	2%	0%
OLA025	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	-83	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	5415	0	-86	-83	1.8	5	201	191	192	27939	98%	2%	0%
OLA026	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	66	5019	0	-	-	0.0	-	201	183	-	27939	98%	2%	0%
OLA027	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	-85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	37	4978	0	-88	-85	2.5	26	201	185	184	27939	98%	2%	0%
OLA028	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	4942	0	-	-	0.0	-	201	182	-	27939	98%	2%	0%
OLA029	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-85	-81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	4920	0	-	-	0.0	-	201	185	-	27939	98%	2%	0%
OLA030	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-75	-71	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	4878	0	-	-	0.0	-	201	184	-	27939	98%	2%	0%
OLA031	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	53	4865	0	-	-	0.0	-	201	182	-	27939	98%	2%	0%
OLA032	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	74	4789	0	-	-	0.0	-	201	181	-	27939	98%	2%	0%
OLA033	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-56	-52	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	4796	0	-	-	0.0	-	201	182	-	27939	98%	2%	0%
OLA034	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	4780	0	-	-	0.0	-	201	182	-	27939	98%	2%	0%
OLA035	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	4710	0	-	-	0.0	-	201	182	-	27939	98%	2%	0%
OLA036	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-44	-40	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	4746	0	-	-	0.0	-	201	182	-	27939	98%	2%	0%
OLA037	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	4674	0	-	-	0.0	-	201	182	-	27939	98%	2%	0%
OLA038	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-33	-30	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	25	4704	0	-	-	0.0	-	201	182	-	27939	98%	2%	0%
OLA039	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	4640	0	-	-	0.0	-	201	181	-	27939	98%	2%	0%
OLA040	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-20	-16	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	24	4676	0	-	-	0.0	-	201	183	-	27939	98%	2%	0%
OLA041	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	46	4608	0	-	-	0.0	-	201	181	-	27939	98%	2%	0%
OLA042	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	4602	0	-	-	0.0	-	201	182	-	27939	98%	2%	0%
OLA043	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-19	-15	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	4659	0	-19	-15	1.8	12	201	183	182	27939	98%	2%	0%
OLA044	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	41	4584	0	-	-	0.0	-	201	182	-	27939	98%	2%	0%
OLA045	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	4567	0	-	-	0.0	-	201	183	-	27939	98%	2%	0%
OLA046	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-23	-20	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	4628	0	-	-	0.0	-	201	185	-	27939	98%	2%	0%
OLA047	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	4528	0	-	-	0.0	-	201	183	-	27939	98%	2%	0%
OLA048	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-44	-40	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	4544	0	-44	-40	2.0	10	201	184	184	27939	98%	2%	0%
OLA049	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-48	-45	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	4524	0	-48	-45	2.0	25	201	184	185	27939	98%	2%	0%
OLA050	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	36	4483	0	-	-	0.0	-	201	185	-	27939	98%	2%	0%
OLA051	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-58	-55	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	24	4470	0	-58	-55	2.0	11	201	184	185	27939	98%	2%	0%
OLA052	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	4433	0	-	-	0.0	-	201	185	-	27939	98%	2%	0%
OLA053	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-66	-62	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	4427	0	-66	-62	2.0	19	201	184	185	27939	98%	2%	0%
OLA054	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-73	-69	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	25	4375	0	-73	-69	2.0	12	201	184	186	27939	98%	2%	0%
OLA055	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	46	4370	0	-	-	0.0	-	201	185	-	27939	98%	2%	0%
OLA056	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-76	-73	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	4323	0	-76	-73	2.0	13	201	185	186	27939	98%	2%	0%
OLA057	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	46	4317	0	-	-	0.0	-	201	185	-	27939	98%	2%	0%
OLA058	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-76	-73	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	23	4269	0	-76	-73	2.0	10	201	185	186	27939	98%	2%	0%

OLA059	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	4254	0	-	-	0.0	-	201	185	-	27939	98%	2%	0%
OLA060	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	4217	0	-75	-72	1.8	15	201	186	186	27939	98%	2%	0%
OLA061	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	4179	0	-	-	0.0	-	201	184	-	27939	98%	2%	0%
OLA062	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-76	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	20	4160	0	-76	-72	1.8	7	201	186	185	27939	98%	2%	0%
OLA063	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	27	4120	0	-	-	0.0	-	201	185	-	27939	98%	2%	0%
OLA064	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	4117	0	-73	-70	1.8	6	201	186	185	27939	98%	2%	0%
OLA065	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	34	4043	0	-	-	0.0	-	201	183	-	27939	98%	2%	0%
OLA066	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	47	3988	0	-	-	0.0	-	201	183	-	27939	98%	2%	0%
OLA067	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-74	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	3946	0	-74	-71	1.8	14	201	181	182	27939	98%	2%	0%
OLA068	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	44	3905	0	-	-	0.0	-	201	180	-	27939	98%	2%	0%
OLA069	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-74	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	3874	0	-74	-71	1.8	31	201	181	180	27939	98%	2%	0%
OLA070	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-74	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	3825	0	-74	-71	1.8	17	201	179	178	27939	98%	2%	0%
OLA071	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	42	3815	0	-	-	0.0	-	201	178	-	27939	98%	2%	0%
OLA072	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	3749	0	-	-	0.0	-	201	177	-	27939	98%	2%	0%
OLA073	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	3742	0	-75	-71	1.9	10	201	177	177	27939	98%	2%	0%
OLA074	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	55	3667	0	-	-	0.0	-	201	176	-	27939	98%	2%	0%
OLA075	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-85	-81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	55	3656	0	-	-	0.0	-	201	175	-	27939	98%	2%	0%
OLA076	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	65	3591	0	-	-	0.0	-	201	175	-	27939	98%	2%	0%
OLA077	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	35	3362	0	-	-	0.0	-	201	174	-	27939	98%	2%	0%
OLA078	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	-82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	3350	0	-86	-82	6.0	3	201	172	172	27939	98%	2%	0%
OLA079	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	3280	0	-	-	0.0	-	201	175	-	27939	98%	2%	0%
OLA080	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-78	-74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	3279	0	-	-	0.0	-	201	174	-	27939	98%	2%	0%
OLA081	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	67	3231	0	-	-	0.0	-	201	175	-	27939	98%	2%	0%
OLA082	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-69	-66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	2944	0	-69	-66	1.8	15	201	181	181	27939	98%	2%	0%
OLA083	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	2896	0	-73	-69	2.0	13	201	182	182	27939	98%	2%	0%
OLA084	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-84	-80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	32	2843	0	-84	-80	1.6	18	201	183	182	27939	98%	2%	0%
OLA085	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	2730	0	-	-	0.0	-	201	182	-	27939	98%	2%	0%
OLA086	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	66	1363	0	-	-	0.0	-	201	193	-	27939	98%	2%	0%
OLA087	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	50	1322	0	-	-	0.0	-	201	194	-	27939	98%	2%	0%
OLA088	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-80	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	73	1301	0	-	-	0.0	-	201	194	-	27939	98%	2%	0%
OLA089	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-80	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	1071	0	-	-	0.0	-	201	205	-	27939	98%	2%	0%
OLA090	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-78	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	69	1053	0	-	-	0.0	-	201	205	-	27939	98%	2%	0%
OLA091	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-74	-66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	679	0	-	-	0.0	-	201	203	-	27939	98%	2%	0%
OLA092	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-71	-64	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	537	0	-71	-64	3.0	3	201	203	203	27939	98%	2%	0%
OLA093	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-68	-63	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	446	0	-	-	0.0	-	201	202	-	27939	98%	2%	0%
OLA094	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-74	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	293	0	-	-	0.0	-	201	202	-	27939	98%	2%	0%
OLA095	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-74	-64	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	65	238	0	-74	-64	6.0	3	201	202	202	27939	98%	2%	0%
OLA096	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	56	84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	102	181	0	-	-	0.0	-	201	202	-	27939	98%	2%	0%
OLA097	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	-82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	152	0	-89	-82	1.8	5	201	202	201	27939	98%	2%	0%
OLA098	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-68	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	122	0	-87	-68	1.8	4	201	202	202	27939	98%	2%	0%
OLA099	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-88	46	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	34	0	-88	-60	24.0	3	201	201	201	27939	98%	2%	0%
OLA100	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-85	78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	44	7	-85	78	2.2	7	194	202	202	27939	98%	2%	0%
OLA101	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	41	4	-87	74	2.1	6	198	201	201	27939	98%	2%	0%
OLA102	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-24	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	82	90	0	-	-	0.0	-	197	198	-	27939	98%	2%	0%
OLA103	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-61	-58	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	74	209	0	-	-	0.0	-	197	197	-	27939	98%	2%	0%
OLA104	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-63	-56	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	102	395	0	-	-	0.0	-	197	196	-	27939	98%	2%	0%

Mature State of Development - 2041 S06_NBb Kennedy Road Denison Street Steeles Avenue

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	-85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	162	7704	0	-86	-85	2.0	7	197	209	209	27939	98%	2%	0%
OLA002	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	7631	0	-	-	0.0	-	197	207	-	27939	98%	2%	0%
OLA003	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	7606	0	-	-	0.0	-	197	207	-	27939	98%	2%	0%
OLA004	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	68	7511	0	-	-	0.0	-	197	207	-	27939	98%	2%	0%
OLA005	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	41	7471	0	-	-	0.0	-	197	208	-	27939	98%	2%	0%
OLA006	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	7440	0	-86	-86	2.1	6	197	207	207	27939	98%	2%	0%
OLA007	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	7439	0	-	-	0.0	-	197	208	-	27939	98%	2%	0%
OLA008	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	7369	0	-87	-86	2.0	12	197	207	207	27939	98%	2%	0%
OLA009	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	7364	0	-	-	0.0	-	197	207	-	27939	98%	2%	0%
OLA010	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	36	7269	0	-86	-86	1.9	8	197	206	206	27939	98%	2%	0%
OLA011	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	75	7268	0	-	-	0.0	-	197	206	-	27939	98%	2%	0%
OLA012	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	34	7180	0	-86	-86	2.4	7	197	204	204	27939	98%	2%	0%
OLA013	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	7122	0	-	-	0.0	-	197	204	-	27939	98%	2%	0%
OLA014	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	7104	0	-	-	0.0	-	197	203	-	27939	98%	2%	0%
OLA015	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	37	7025	0	-	-	0.0	-	197	202	-	27939	98%	2%	0%
OLA016	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	77	6978	0	-	-	0.0	-	197	200	-	27939	98%	2%	0%
OLA017	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-85	-84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	6743	0	-85	-84	1.9	7	197	196	196	27939	98%	2%	0%
OLA018	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-85	-85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	6708	0	-85	-85	1.9	2	197	196	196	27939	98%	2%	0%
OLA019	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-84	-84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	53	6670	0	-	-	0.0	-	197	197	-	27939	98%	2%	0%
OLA020	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-85	-85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	6574	0	-85	-85	2.0	8	197	197	197	27939	98%	2%	0%
OLA021	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-84	-84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	61	6532	0	-	-	0.0	-	197	200	-	27939	98%	2%	0%
OLA022	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-80	-79	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	6384	0	-80	-79	9.0	3	197	200	200	27939	98%	2%	0%
OLA023	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	86	6344	0	-	-	0.0	-	197	199	-	27939	98%	2%	0%
OLA024	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	6165	0	-	-	0.0	-	197	193	-	27939	98%	2%	0%
OLA025	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-83	-82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	6106	0	-83	-82	1.8	5	197	191	192	27939	98%	2%	0%
OLA026	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	66	5705	0	-	-	0.0	-	197	183	-	27939	98%	2%	0%
OLA027	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-85	-84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	37	5671	0	-85	-84	2.5	26	197	185	184	27939	98%	2%	0%
OLA028	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	5629	0	-	-	0.0	-	197	182	-	27939	98%	2%	0%
OLA029	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-81	-81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	5613	0	-	-	0.0	-	197	185	-	27939	98%	2%	0%
OLA030	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-71	-71	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	5572	0	-	-	0.0	-	197	184	-	27939	98%	2%	0%
OLA031	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	53	5553	0	-	-	0.0	-	197	182	-	27939	98%	2%	0%
OLA032	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	74	5477	0	-	-	0.0	-	197	181	-	27939	98%	2%	0%
OLA033	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-52	-52	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	5492	0	-	-	0.0	-	197	182	-	27939	98%	2%	0%
OLA034	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	5471	0	-	-	0.0	-	197	182	-	27939	98%	2%	0%
OLA035	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	5404	0	-	-	0.0	-	197	182	-	27939	98%	2%	0%
OLA036	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-40	-40	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	5445	0	-	-	0.0	-	197	182	-	27939	98%	2%	0%
OLA037	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	5371	0	-	-	0.0	-	197	182	-	27939	98%	2%	0%
OLA038	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-30	-29	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	25	5406	0	-	-	0.0	-	197	182	-	27939	98%	2%	0%
OLA039	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	5340	0	-	-	0.0	-	197	181	-	27939	98%	2%	0%
OLA040	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-16	-16	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	24	5381	0	-	-	0.0	-	197	183	-	27939	98%	2%	0%
OLA041	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	46	5313	0	-	-	0.0	-	197	181	-	27939	98%	2%	0%
OLA042	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	5308	0	-	-	0.0	-	197	182	-	27939	98%	2%	0%
OLA043	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-15	-15	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	5368	0	-15	-15	1.8	12	197	183	182	27939	98%	2%	0%
OLA044	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	41	5294	0	-	-	0.0	-	197	182	-	27939	98%	2%	0%
OLA045	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	5280	0	-	-	0.0	-	197	183	-	27939	98%	2%	0%
OLA046	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-20	-19	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	5342	0	-	-	0.0	-	197	185	-	27939	98%	2%	0%
OLA047	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	48	5244	0	-	-	0.0	-	197	183	-	27939	98%	2%	0%
OLA048	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-40	-40	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	5266	0	-40	-40	2.0	10	197	184	184	27939	98%	2%	0%
OLA049	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-45	-45	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	38	5248	0	-45	-45	2.0	25	197	184	185	27939	98%	2%	0%
OLA050	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	36	5204	0	-	-	0.0	-	197	185	-	27939	98%	2%	0%
OLA051	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-55	-55	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	24	5195	0	-	-	0.0	-	197	184	-	27939	98%	2%	0%
OLA052	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	5156	0	-	-	0.0	-	197	185	-	27939	98%	2%	0%
OLA053	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-62	-62	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	32	5154	0	-	-	0.0	-	197	184	-	27939	98%	2%	0%
OLA054	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-69	-69	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	25	5103	0	-	-	0.0	-	197	184	-	27939	98%	2%	0%
OLA055	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	46	5094	0	-	-	0.0	-	197	185	-	27939	98%	2%	0%
OLA056	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-73	-73	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	5052	0	-	-	0.0	-	197	185	-	27939	98%	2%	0%
OLA057	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	46	5042	0	-	-	0.0	-	197	185	-	27939	98%	2%	0%
OLA058	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-73	-73	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	23	4999	0	-	-	0.0	-	197	185	-	27939	98%	2%	0%

OLA059	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	4980	0	-	-	0.0	-	197	185	-	27939	98%	2%	0%
OLA060	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-72	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	4948	0	-	-	0.0	-	197	186	-	27939	98%	2%	0%
OLA061	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	4906	0	-	-	0.0	-	197	184	-	27939	98%	2%	0%
OLA062	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-72	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	20	4892	0	-	-	0.0	-	197	186	-	27939	98%	2%	0%
OLA063	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	27	4849	0	-	-	0.0	-	197	185	-	27939	98%	2%	0%
OLA064	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-70	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	4851	0	-70	-70	1.8	6	197	186	185	27939	98%	2%	0%
OLA065	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	34	4773	0	-	-	0.0	-	197	183	-	27939	98%	2%	0%
OLA066	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	47	4718	0	-	-	0.0	-	197	183	-	27939	98%	2%	0%
OLA067	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-71	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	4683	0	-71	-71	1.8	14	197	181	182	27939	98%	2%	0%
OLA068	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	44	4638	0	-	-	0.0	-	197	180	-	27939	98%	2%	0%
OLA069	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-71	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	4613	0	-71	-71	1.8	31	197	181	180	27939	98%	2%	0%
OLA070	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-71	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	4563	0	-71	-71	1.8	17	197	179	178	27939	98%	2%	0%
OLA071	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	42	4549	0	-	-	0.0	-	197	178	-	27939	98%	2%	0%
OLA072	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	4484	0	-	-	0.0	-	197	177	-	27939	98%	2%	0%
OLA073	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-71	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	4481	0	-71	-71	1.9	10	197	177	177	27939	98%	2%	0%
OLA074	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	55	4403	0	-	-	0.0	-	197	176	-	27939	98%	2%	0%
OLA075	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	55	4399	0	-	-	0.0	-	197	175	-	27939	98%	2%	0%
OLA076	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	65	4335	0	-	-	0.0	-	197	175	-	27939	98%	2%	0%
OLA077	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	35	4098	0	-	-	0.0	-	197	174	-	27939	98%	2%	0%
OLA078	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-82	-82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	4092	0	-82	-82	6.0	3	197	172	172	27939	98%	2%	0%
OLA079	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	4016	0	-	-	0.0	-	197	175	-	27939	98%	2%	0%
OLA080	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-74	-74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	4020	0	-	-	0.0	-	197	174	-	27939	98%	2%	0%
OLA081	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	67	3966	0	-	-	0.0	-	197	175	-	27939	98%	2%	0%
OLA082	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-66	-66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	3694	0	-66	-66	1.8	15	197	181	181	27939	98%	2%	0%
OLA083	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-70	-69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	3647	0	-70	-69	2.0	13	197	182	182	27939	98%	2%	0%
OLA084	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-80	-80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	32	3595	0	-80	-80	1.6	18	197	183	182	27939	98%	2%	0%
OLA085	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	3481	0	-	-	0.0	-	197	182	-	27939	98%	2%	0%
OLA086	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	66	2104	0	-	-	0.0	-	197	193	-	27939	98%	2%	0%
OLA087	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	50	2063	0	-	-	0.0	-	197	194	-	27939	98%	2%	0%
OLA088	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-72	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	73	2045	0	-	-	0.0	-	197	194	-	27939	98%	2%	0%
OLA089	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-72	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	1819	0	-	-	0.0	-	197	205	-	27939	98%	2%	0%
OLA090	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-71	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	69	1807	0	-	-	0.0	-	197	205	-	27939	98%	2%	0%
OLA091	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-68	-66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	1445	0	-	-	0.0	-	197	203	-	27939	98%	2%	0%
OLA092	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-66	-64	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	1308	0	-66	-64	3.0	3	197	203	203	27939	98%	2%	0%
OLA093	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-66	-63	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	1223	0	-	-	0.0	-	197	202	-	27939	98%	2%	0%
OLA094	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	1072	0	-	-	0.0	-	197	202	-	27939	98%	2%	0%
OLA095	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-78	-74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	65	1011	0	-78	-74	6.0	3	197	202	202	27939	98%	2%	0%
OLA096	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	81	84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	102	934	0	-	-	0.0	-	197	202	-	27939	98%	2%	0%
OLA097	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	929	0	-90	-89	1.8	5	197	202	201	27939	98%	2%	0%
OLA098	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	893	0	-90	-87	1.8	4	197	202	202	27939	98%	2%	0%
OLA099	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	744	0	-90	-88	24.0	3	197	201	201	27939	98%	2%	0%
OLA100	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	74	78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	246	0	74	78	2.2	7	197	202	202	27939	98%	2%	0%
OLA101	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	72	74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	174	0	72	74	2.1	6	197	201	201	27939	98%	2%	0%
OLA102	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-24	58	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	82	82	0	50	58	6.0	3	197	198	198	27939	98%	2%	0%
OLA103	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-58	31	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	74	74	0	-	-	0.0	-	196	197	-	27939	98%	2%	0%
OLA104	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-63	-52	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	102	175	0	-	-	0.0	-	196	196	-	27939	98%	2%	0%

Mature State of Development - 2041 S06_NBc Kennedy Road Denison Street Steeles Avenue

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode		Road Pavement		Angle 1 (degrees)	Angle 2 (degrees)	Topography		Wood Depth		No of Row of Houses	Density of 1st Row	Intermediate Surface		Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	-85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	162	7928	0	-86	-85	2.0	7	196	209	209	27939	98%	2%	0%
OLA002	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	7855	0	-	-	0.0	-	196	207	-	27939	98%	2%	0%
OLA003	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	7830	0	-	-	0.0	-	196	207	-	27939	98%	2%	0%
OLA004	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	68	7735	0	-	-	0.0	-	196	207	-	27939	98%	2%	0%
OLA005	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	41	7694	0	-	-	0.0	-	196	208	-	27939	98%	2%	0%
OLA006	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	-86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	7664	0	-86	-86	2.1	6	196	207	207	27939	98%	2%	0%
OLA007	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	7662	0	-	-	0.0	-	196	208	-	27939	98%	2%	0%
OLA008	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	7593	0	-87	-86	2.0	12	196	207	207	27939	98%	2%	0%
OLA009	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	35	7587	0	-	-	0.0	-	196	207	-	27939	98%	2%	0%
OLA010	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	-86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	36	7492	0	-86	-86	1.9	8	196	206	206	27939	98%	2%	0%
OLA011	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	75	7491	0	-	-	0.0	-	196	206	-	27939	98%	2%	0%
OLA012	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	-86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	7404	0	-86	-86	2.4	7	196	204	204	27939	98%	2%	0%
OLA013	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	-86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	7346	0	-	-	0.0	-	196	204	-	27939	98%	2%	0%
OLA014	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	33	7327	0	-	-	0.0	-	196	203	-	27939	98%	2%	0%
OLA015	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	37	7248	0	-	-	0.0	-	196	202	-	27939	98%	2%	0%
OLA016	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	77	7201	0	-	-	0.0	-	196	200	-	27939	98%	2%	0%
OLA017	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-85	-84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	6967	0	-85	-84	1.9	7	196	196	196	27939	98%	2%	0%
OLA018	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-85	-85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	6932	0	-85	-85	1.9	2	196	196	196	27939	98%	2%	0%
OLA019	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-85	-84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	6894	0	-	-	0.0	-	196	197	-	27939	98%	2%	0%
OLA020	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-85	-85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	32	6798	0	-85	-85	2.0	8	196	197	197	27939	98%	2%	0%
OLA021	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-84	-84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	6756	0	-	-	0.0	-	196	200	-	27939	98%	2%	0%
OLA022	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-80	-79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	35	6608	0	-80	-79	9.0	3	196	200	200	27939	98%	2%	0%
OLA023	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	86	6568	0	-	-	0.0	-	196	199	-	27939	98%	2%	0%
OLA024	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	6389	0	-	-	0.0	-	196	193	-	27939	98%	2%	0%
OLA025	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-83	-82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	6330	0	-83	-82	1.8	5	196	191	192	27939	98%	2%	0%
OLA026	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	66	5928	0	-	-	0.0	-	196	183	-	27939	98%	2%	0%
OLA027	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-85	-84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	37	5896	0	-85	-84	2.5	26	196	185	184	27939	98%	2%	0%
OLA028	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	5853	0	-	-	0.0	-	196	182	-	27939	98%	2%	0%
OLA029	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-82	-81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	5838	0	-	-	0.0	-	196	185	-	27939	98%	2%	0%
OLA030	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-72	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	5797	0	-	-	0.0	-	196	184	-	27939	98%	2%	0%
OLA031	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	5777	0	-	-	0.0	-	196	182	-	27939	98%	2%	0%
OLA032	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	74	5701	0	-	-	0.0	-	196	181	-	27939	98%	2%	0%
OLA033	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-53	-52	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	5716	0	-	-	0.0	-	196	182	-	27939	98%	2%	0%
OLA034	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	5695	0	-	-	0.0	-	196	182	-	27939	98%	2%	0%
OLA035	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	47	5628	0	-	-	0.0	-	196	182	-	27939	98%	2%	0%
OLA036	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-40	-40	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	5669	0	-	-	0.0	-	196	182	-	27939	98%	2%	0%
OLA037	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	5596	0	-	-	0.0	-	196	182	-	27939	98%	2%	0%
OLA038	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-30	-29	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	5630	0	-	-	0.0	-	196	182	-	27939	98%	2%	0%
OLA039	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	5565	0	-	-	0.0	-	196	181	-	27939	98%	2%	0%
OLA040	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-17	-16	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	24	5606	0	-	-	0.0	-	196	183	-	27939	98%	2%	0%
OLA041	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	5538	0	-	-	0.0	-	196	181	-	27939	98%	2%	0%
OLA042	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	5533	0	-	-	0.0	-	196	182	-	27939	98%	2%	0%
OLA043	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-16	-15	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	5593	0	-16	-15	1.8	12	196	183	182	27939	98%	2%	0%
OLA044	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	41	5520	0	-	-	0.0	-	196	182	-	27939	98%	2%	0%
OLA045	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	5505	0	-	-	0.0	-	196	183	-	27939	98%	2%	0%
OLA046	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-20	-19	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	5568	0	-	-	0.0	-	196	185	-	27939	98%	2%	0%
OLA047	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	48	5469	0	-	-	0.0	-	196	183	-	27939	98%	2%	0%
OLA048	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-41	-40	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	32	5492	0	-41	-40	2.0	10	196	184	184	27939	98%	2%	0%
OLA049	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-46	-45	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	38	5474	0	-46	-45	2.0	25	196	184	185	27939	98%	2%	0%
OLA050	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	5429	0	-	-	0.0	-	196	185	-	27939	98%	2%	0%
OLA051	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-56	-55	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	24	5421	0	-56	-55	2.0	11	196	184	185	27939	98%	2%	0%
OLA052	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	5381	0	-	-	0.0	-	196	185	-	27939	98%	2%	0%
OLA053	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-63	-62	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	32	5380	0	-63	-62	2.0	19	196	184	185	27939	98%	2%	0%
OLA054	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-70	-69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	5329	0	-70	-69	2.0	12	196	184	186	27939	98%	2%	0%
OLA055	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	5320	0	-	-	0.0	-	196	185	-	27939	98%	2%	0%
OLA056	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-74	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	5278	0	-74	-73	2.0	13	196	185	186	27939	98%	2%	0%
OLA057	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	5267	0	-	-	0.0	-	196	185	-	27939	98%	2%	0%
OLA058	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-74	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	23	5225	0	-74	-73	2.0	10	196	185	186	27939	98%	2%	0%

OLA059	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	5205	0	-	-	0.0	-	196	185	-	27939	98%	2%	0%
OLA060	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	5174	0	-73	-72	1.8	15	196	186	186	27939	98%	2%	0%
OLA061	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	5131	0	-	-	0.0	-	196	184	-	27939	98%	2%	0%
OLA062	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	20	5117	0	-73	-72	1.8	7	196	186	185	27939	98%	2%	0%
OLA063	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	27	5075	0	-	-	0.0	-	196	185	-	27939	98%	2%	0%
OLA064	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-71	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	5076	0	-71	-70	1.8	6	196	186	185	27939	98%	2%	0%
OLA065	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	34	4999	0	-	-	0.0	-	196	183	-	27939	98%	2%	0%
OLA066	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	47	4944	0	-	-	0.0	-	196	183	-	27939	98%	2%	0%
OLA067	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-72	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	4909	0	-72	-71	1.8	14	196	181	182	27939	98%	2%	0%
OLA068	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	44	4863	0	-	-	0.0	-	196	180	-	27939	98%	2%	0%
OLA069	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-72	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	4838	0	-72	-71	1.8	31	196	181	180	27939	98%	2%	0%
OLA070	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-72	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	4789	0	-72	-71	1.8	17	196	179	178	27939	98%	2%	0%
OLA071	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	42	4775	0	-	-	0.0	-	196	178	-	27939	98%	2%	0%
OLA072	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	4709	0	-	-	0.0	-	196	177	-	27939	98%	2%	0%
OLA073	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-72	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	4707	0	-72	-71	1.9	10	196	177	177	27939	98%	2%	0%
OLA074	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	55	4629	0	-	-	0.0	-	196	176	-	27939	98%	2%	0%
OLA075	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-82	-81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	55	4624	0	-	-	0.0	-	196	175	-	27939	98%	2%	0%
OLA076	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	65	4560	0	-	-	0.0	-	196	175	-	27939	98%	2%	0%
OLA077	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	35	4324	0	-	-	0.0	-	196	174	-	27939	98%	2%	0%
OLA078	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-83	-82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	4318	0	-83	-82	6.0	3	196	172	172	27939	98%	2%	0%
OLA079	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	4242	0	-	-	0.0	-	196	175	-	27939	98%	2%	0%
OLA080	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	4246	0	-	-	0.0	-	196	174	-	27939	98%	2%	0%
OLA081	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	67	4192	0	-	-	0.0	-	196	175	-	27939	98%	2%	0%
OLA082	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-67	-66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	3919	0	-67	-66	1.8	15	196	181	181	27939	98%	2%	0%
OLA083	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-71	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	3872	0	-71	-70	2.0	13	196	182	182	27939	98%	2%	0%
OLA084	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-82	-80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	32	3819	0	-82	-80	1.6	18	196	183	182	27939	98%	2%	0%
OLA085	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	3706	0	-	-	0.0	-	196	182	-	27939	98%	2%	0%
OLA086	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	66	2329	0	-	-	0.0	-	196	193	-	27939	98%	2%	0%
OLA087	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	50	2288	0	-	-	0.0	-	196	194	-	27939	98%	2%	0%
OLA088	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-74	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	73	2270	0	-	-	0.0	-	196	194	-	27939	98%	2%	0%
OLA089	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-74	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	2043	0	-	-	0.0	-	196	205	-	27939	98%	2%	0%
OLA090	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	69	2031	0	-	-	0.0	-	196	205	-	27939	98%	2%	0%
OLA091	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-71	-68	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	1666	0	-	-	0.0	-	196	203	-	27939	98%	2%	0%
OLA092	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-70	-66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	1528	0	-70	-66	3.0	3	196	203	203	27939	98%	2%	0%
OLA093	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-70	-66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	1441	0	-	-	0.0	-	196	202	-	27939	98%	2%	0%
OLA094	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-82	-77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	1286	0	-	-	0.0	-	196	202	-	27939	98%	2%	0%
OLA095	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-84	-78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	65	1223	0	-80	-78	6.0	3	196	202	202	27939	98%	2%	0%
OLA096	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	76	81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	102	1156	0	-	-	0.0	-	196	202	-	27939	98%	2%	0%
OLA097	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	1144	0	-	-	0.0	-	196	202	-	27939	98%	2%	0%
OLA098	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	1106	0	-	-	0.0	-	196	202	-	27939	98%	2%	0%
OLA099	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	957	0	-	-	0.0	-	196	201	-	27939	98%	2%	0%
OLA100	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	67	74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	471	0	67	74	2.2	7	196	202	202	27939	98%	2%	0%
OLA101	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	65	72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	400	0	65	72	2.1	6	196	201	201	27939	98%	2%	0%
OLA102	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	58	61	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	82	220	0	58	61	6.0	3	196	198	198	27939	98%	2%	0%
OLA103	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	31	69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	74	86	0	65	69	6.0	3	196	197	197	27939	98%	2%	0%
OLA104	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-52	46	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	102	102	0	40	46	6.0	3	194	196	196	27939	98%	2%	0%

Mature State of Development - 2041 S01_SB Kennedy Road Major Mackenzie Drive 16th Avenue

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-85	31	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	177	177	0	-85	31	2.0	7	206	209	209	20376	96%	2%	2%
OLA002	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	71	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	60	60	0	-60	71	6.0	3	206	207	207	20376	96%	2%	2%
OLA003	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-81	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	30	0	-81	88	2.0	4	206	207	206	20376	96%	2%	2%
OLA004	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-79	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	53	53	0	-79	45	6.0	3	206	207	207	20376	96%	2%	2%
OLA005	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	26	0	-86	88	2.2	5	206	208	207	20376	96%	2%	2%
OLA006	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	43	0	-89	84	2.1	6	206	207	207	20376	96%	2%	2%
OLA007	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-85	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	30	0	-85	89	2.1	5	206	208	207	20376	96%	2%	2%
OLA008	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	42	0	-89	84	2.0	12	207	207	207	20376	96%	2%	2%
OLA009	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	20	20	0	-87	89	2.1	5	207	207	207	20376	96%	2%	2%
OLA010	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	51	51	0	-89	85	1.9	8	206	206	206	20376	96%	2%	2%
OLA011	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-83	87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	60	60	0	-80	-45	9.0	3	206	206	206	20376	96%	2%	2%
OLA012	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	49	49	0	-89	86	2.4	7	205	204	204	20376	96%	2%	2%
OLA013	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	58	58	0	-65	85	6.0	3	204	204	204	20376	96%	2%	2%
OLA014	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	18	18	0	-89	88	2.0	4	203	203	203	20376	96%	2%	2%
OLA015	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	22	22	0	-88	89	2.0	6	201	202	202	20376	96%	2%	2%
OLA016	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-85	87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	62	0	-	-	0.0	-	200	200	-	20376	96%	2%	2%
OLA017	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	42	42	0	-87	89	1.9	7	195	196	196	20376	96%	2%	2%
OLA018	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	45	0	-87	88	1.9	2	195	196	196	20376	96%	2%	2%
OLA019	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-85	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	68	68	0	-60	50	6.0	3	195	197	197	20376	96%	2%	2%
OLA020	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	46	46	0	-87	88	2.0	8	196	197	197	20376	96%	2%	2%
OLA021	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-84	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	76	76	0	-60	50	6.0	3	197	200	200	20376	96%	2%	2%
OLA022	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-79	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	50	50	0	-79	20	9.0	3	201	200	200	20376	96%	2%	2%
OLA023	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	71	71	0	-50	50	6.0	3	201	199	199	20376	96%	2%	2%
OLA024	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	28	0	-45	45	6.0	3	195	193	193	20376	96%	2%	2%
OLA025	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-80	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	43	0	-80	90	1.8	5	190	191	192	20376	96%	2%	2%
OLA026	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-42	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	51	69	0	-	-	0.0	-	184	183	-	20376	96%	2%	2%
OLA027	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	60	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	51	103	0	-	-	0.0	-	184	185	-	20376	96%	2%	2%
OLA028	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-85	-73	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	127	0	-	-	0.0	-	184	182	-	20376	96%	2%	2%
OLA029	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	71	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	57	160	0	-	-	0.0	-	184	185	-	20376	96%	2%	2%
OLA030	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	84	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	55	201	0	-	-	0.0	-	184	184	-	20376	96%	2%	2%
OLA031	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-76	-68	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	203	0	-	-	0.0	-	184	182	-	20376	96%	2%	2%
OLA032	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-68	-63	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	59	278	0	-	-	0.0	-	184	181	-	20376	96%	2%	2%
OLA033	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	41	284	0	-	-	0.0	-	184	182	-	20376	96%	2%	2%
OLA034	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-66	-64	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	29	286	0	-	-	0.0	-	184	182	-	20376	96%	2%	2%
OLA035	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-59	-52	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	362	0	-59	-52	6.0	3	184	182	182	20376	96%	2%	2%
OLA036	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	41	345	0	-	-	0.0	-	184	182	-	20376	96%	2%	2%
OLA037	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-56	-44	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	407	0	-	-	0.0	-	184	182	-	20376	96%	2%	2%
OLA038	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	39	404	0	-	-	0.0	-	184	182	-	20376	96%	2%	2%
OLA039	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-54	-39	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	29	451	0	-	-	0.0	-	184	181	-	20376	96%	2%	2%
OLA040	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	39	453	0	-	-	0.0	-	184	183	-	20376	96%	2%	2%
OLA041	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-46	-28	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	503	0	-	-	0.0	-	184	181	-	20376	96%	2%	2%
OLA042	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-49	-29	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	522	0	-	-	0.0	-	184	182	-	20376	96%	2%	2%
OLA043	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	41	498	0	-	-	0.0	-	184	183	-	20376	96%	2%	2%
OLA044	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-52	-29	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	565	0	-43	-29	1.8	9	184	182	182	20376	96%	2%	2%
OLA045	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-61	-36	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	603	0	-	-	0.0	-	184	183	-	20376	96%	2%	2%
OLA046	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	579	0	-	-	0.0	-	184	185	-	20376	96%	2%	2%
OLA047	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-72	-47	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	668	0	-72	-47	6.0	11	184	183	183	20376	96%	2%	2%
OLA048	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	726	0	-	-	0.0	-	184	184	-	20376	96%	2%	2%
OLA049	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	84	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	50	759	0	-	-	0.0	-	184	184	-	20376	96%	2%	2%
OLA050	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-64	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	25	743	0	-	-	0.0	-	184	185	-	20376	96%	2%	2%
OLA051	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	76	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	811	0	76	83	2.0	11	184	184	185	20376	96%	2%	2%
OLA052	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-77	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	29	802	0	-	-	0.0	-	184	185	-	20376	96%	2%	2%
OLA053	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	69	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	864	0	69	76	2.0	19	184	184	185	20376	96%	2%	2%
OLA054	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	63	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	36	910	0	63	76	2.0	12	184	184	186	20376	96%	2%	2%
OLA055	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	34	865	0	-	-	0.0	-	184	185	-	20376	96%	2%	2%
OLA056	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	61	85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	37	957	0	61	76	2.0	13	184	185	186	20376	96%	2%	2%
OLA057	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	34	915	0	-	-	0.0	-	184	185	-	20376	96%	2%	2%
OLA058	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	62	85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	1004	0	62	79	2.0	10	184	185	186	20376	96%	2%	2%

OLA059	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	976	0	-	-	0.0	-	184	185	-	20376	96%	2%	2%
OLA060	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	64	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	39	1056	0	64	85	1.8	15	184	186	186	20376	96%	2%	2%
OLA061	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	1046	0	-	-	0.0	-	184	184	-	20376	96%	2%	2%
OLA062	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	66	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	32	1104	0	66	85	1.8	7	184	186	185	20376	96%	2%	2%
OLA063	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	16	1112	0	-	-	0.0	-	184	185	-	20376	96%	2%	2%
OLA064	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	67	86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	1158	0	67	85	1.8	6	184	186	185	20376	96%	2%	2%
OLA065	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	21	1183	0	-	-	0.0	-	184	183	-	20376	96%	2%	2%
OLA066	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	1231	0	-	-	0.0	-	184	183	-	20376	96%	2%	2%
OLA067	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	69	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	1325	0	69	85	1.8	14	184	181	182	20376	96%	2%	2%
OLA068	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	1314	0	-	-	0.0	-	184	180	-	20376	96%	2%	2%
OLA069	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	70	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	60	1396	0	70	85	1.8	31	184	181	180	20376	96%	2%	2%
OLA070	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	71	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	1436	0	71	85	1.8	17	184	179	178	20376	96%	2%	2%
OLA071	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	1404	0	-	-	0.0	-	184	178	-	20376	96%	2%	2%
OLA072	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	1468	0	-	-	0.0	-	184	177	-	20376	96%	2%	2%
OLA073	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	71	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	1517	0	71	85	1.9	10	184	177	177	20376	96%	2%	2%
OLA074	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	1544	0	-	-	0.0	-	184	176	-	20376	96%	2%	2%
OLA075	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	61	74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	70	1614	0	-	-	0.0	-	184	175	-	20376	96%	2%	2%
OLA076	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	54	66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	79	1675	0	-	-	0.0	-	184	175	-	20376	96%	2%	2%
OLA077	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	24	1814	0	-	-	0.0	-	184	174	-	20376	96%	2%	2%
OLA078	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	66	75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	72	1869	0	-	-	0.0	-	184	172	-	20376	96%	2%	2%
OLA079	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	35	1887	0	-	-	0.0	-	184	175	-	20376	96%	2%	2%
OLA080	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	75	84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	33	1917	0	-	-	0.0	-	184	174	-	20376	96%	2%	2%
OLA081	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	54	1929	0	-	-	0.0	-	184	175	-	20376	96%	2%	2%
OLA082	70	2.6%	2	Manual	1	Typical Asphalt or Concrete	83	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	2277	0	-	-	0.0	-	184	181	-	20376	96%	2%	2%
OLA083	70	2.6%	2	Manual	1	Typical Asphalt or Concrete	79	86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	2320	0	79	86	2.0	13	184	182	182	20376	96%	2%	2%
OLA084	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	69	75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	50	2373	0	69	75	1.6	18	184	183	182	20376	96%	2%	2%
OLA085	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	51	57	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	39	2468	0	51	57	2.6	8	184	182	181	20376	96%	2%	2%
OLA086	70	3.8%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	82	3719	0	89	90	2.0	19	184	193	194	20376	96%	2%	2%
OLA087	70	3.8%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	66	3757	0	90	90	2.0	55	184	194	194	20376	96%	2%	2%
OLA088	70	3.8%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	88	3782	0	89	90	6.0	21	184	194	194	20376	96%	2%	2%
OLA089	70	3.8%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	4009	0	-	-	0.0	-	184	205	-	20376	96%	2%	2%
OLA090	70	3.8%	2	Manual	1	Typical Asphalt or Concrete	89	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	83	4035	0	-	-	0.0	-	184	205	-	20376	96%	2%	2%
OLA091	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	55	4411	0	-	-	0.0	-	184	203	-	20376	96%	2%	2%
OLA092	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	4556	0	-	-	0.0	-	184	203	-	20376	96%	2%	2%
OLA093	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	88	88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	48	4655	0	88	88	1.7	17	184	202	201	20376	96%	2%	2%
OLA094	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	73	74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	4827	0	-	-	0.0	-	184	202	-	20376	96%	2%	2%
OLA095	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	71	71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	78	4897	0	-	-	0.0	-	184	202	-	20376	96%	2%	2%
OLA096	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	87	4885	0	-	-	0.0	-	184	202	-	20376	96%	2%	2%
OLA097	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	59	59	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	37	4947	0	-	-	0.0	-	184	202	-	20376	96%	2%	2%
OLA098	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	59	59	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	4992	0	-	-	0.0	-	184	202	-	20376	96%	2%	2%
OLA099	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	59	60	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	5114	0	-	-	0.0	-	184	201	-	20376	96%	2%	2%
OLA100	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	5517	0	-	-	0.0	-	184	202	-	20376	96%	2%	2%
OLA101	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	5584	0	-	-	0.0	-	184	201	-	20376	96%	2%	2%
OLA102	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	67	5768	0	-	-	0.0	-	184	198	-	20376	96%	2%	2%
OLA103	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-88	-87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	59	5938	0	-	-	0.0	-	184	197	-	20376	96%	2%	2%
OLA104	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-79	-77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	88	6136	0	-	-	0.0	-	184	196	-	20376	96%	2%	2%

Mature State of Development - 2041 S02_SBa Kennedy Road 16th Avenue Highway 7

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode		Road Pavement		Angle 1 (degrees)	Angle 2 (degrees)	Topography		Wood Depth		No of Row of Houses	Density of 1st Row	Intermediate Surface		Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	177	1950	0	-87	-85	2.0	7	184	209	209	29631	95%	3%	3%
OLA002	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	60	1879	0	-	-	0.0	-	184	207	-	29631	95%	3%	3%
OLA003	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	88	88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	1859	0	88	88	2.0	4	184	207	206	29631	95%	3%	3%
OLA004	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	87	88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	1766	0	-	-	0.0	-	184	207	-	29631	95%	3%	3%
OLA005	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	87	88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	1723	0	87	88	2.2	5	184	208	207	29631	95%	3%	3%
OLA006	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	1688	0	-90	-89	2.1	6	184	207	207	29631	95%	3%	3%
OLA007	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	88	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	1692	0	88	89	2.1	5	184	208	207	29631	95%	3%	3%
OLA008	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	1617	0	-90	-89	2.0	12	184	207	207	29631	95%	3%	3%
OLA009	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	20	1616	0	89	89	2.1	5	184	207	207	29631	95%	3%	3%
OLA010	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	1516	0	-90	-89	1.9	8	184	206	206	29631	95%	3%	3%
OLA011	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	87	87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	60	1523	0	-	-	0.0	-	184	206	-	29631	95%	3%	3%
OLA012	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	1428	0	-90	-89	2.4	7	184	204	204	29631	95%	3%	3%
OLA013	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	1369	0	-	-	0.0	-	184	204	-	29631	95%	3%	3%
OLA014	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	88	88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	18	1355	0	88	88	2.0	4	184	203	203	29631	95%	3%	3%
OLA015	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	88	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	1277	0	88	89	2.0	6	184	202	202	29631	95%	3%	3%
OLA016	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	87	87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	62	1234	0	-	-	0.0	-	184	200	-	29631	95%	3%	3%
OLA017	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	-87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	42	990	0	-89	-87	1.9	7	184	196	196	29631	95%	3%	3%
OLA018	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	-87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	954	0	-89	-87	1.9	2	184	196	196	29631	95%	3%	3%
OLA019	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	68	916	0	-	-	0.0	-	184	197	-	29631	95%	3%	3%
OLA020	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	-87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	820	0	-89	-87	2.0	8	184	197	197	29631	95%	3%	3%
OLA021	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	76	777	0	-	-	0.0	-	184	200	-	29631	95%	3%	3%
OLA022	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-83	-79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	50	630	0	-83	-79	9.0	3	184	200	200	29631	95%	3%	3%
OLA023	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	85	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	71	600	0	-	-	0.0	-	184	199	-	29631	95%	3%	3%
OLA024	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	87	87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	415	0	-	-	0.0	-	184	193	-	29631	95%	3%	3%
OLA025	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	-80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	352	0	-86	-80	1.8	5	184	191	192	29631	95%	3%	3%
OLA026	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-42	70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	51	0	55	70	6.0	3	184	183	183	29631	95%	3%	3%
OLA027	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	60	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	51	0	-81	-13	2.5	26	184	185	184	29631	95%	3%	3%
OLA028	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	30	0	-	-	0.0	-	184	182	-	29631	95%	3%	3%
OLA029	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-68	71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	57	57	0	-67	60	2.5	33	183	185	184	29631	95%	3%	3%
OLA030	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-43	84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	55	55	0	-40	60	6.0	3	182	184	184	29631	95%	3%	3%
OLA031	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-68	55	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	41	0	-	-	0.0	-	183	182	-	29631	95%	3%	3%
OLA032	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-63	-6	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	59	60	0	-	-	0.0	-	182	181	-	29631	95%	3%	3%
OLA033	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	54	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	41	60	0	-	-	0.0	-	182	182	-	29631	95%	3%	3%
OLA034	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-66	-41	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	40	0	-	-	0.0	-	182	182	-	29631	95%	3%	3%
OLA035	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-65	-59	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	112	0	-65	-59	6.0	3	182	182	182	29631	95%	3%	3%
OLA036	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	82	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	41	119	0	-	-	0.0	-	182	182	-	29631	95%	3%	3%
OLA037	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-68	-56	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	162	0	-	-	0.0	-	182	182	-	29631	95%	3%	3%
OLA038	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	39	183	0	-	-	0.0	-	182	182	-	29631	95%	3%	3%
OLA039	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-67	-54	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	211	0	-	-	0.0	-	182	181	-	29631	95%	3%	3%
OLA040	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	39	241	0	-	-	0.0	-	182	183	-	29631	95%	3%	3%
OLA041	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-61	-46	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	271	0	-	-	0.0	-	182	181	-	29631	95%	3%	3%
OLA042	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-65	-49	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	296	0	-	-	0.0	-	182	182	-	29631	95%	3%	3%
OLA043	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	41	295	0	-	-	0.0	-	182	183	-	29631	95%	3%	3%
OLA044	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-68	-52	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	348	0	-	-	0.0	-	182	182	-	29631	95%	3%	3%
OLA045	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-76	-61	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	391	0	-	-	0.0	-	182	183	-	29631	95%	3%	3%
OLA046	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	388	0	-	-	0.0	-	182	185	-	29631	95%	3%	3%
OLA047	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	35	459	0	-86	-72	6.0	11	182	183	183	29631	95%	3%	3%
OLA048	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	74	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	537	0	-	-	0.0	-	182	184	-	29631	95%	3%	3%
OLA049	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	70	84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	50	569	0	-	-	0.0	-	182	184	-	29631	95%	3%	3%
OLA050	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	537	0	-	-	0.0	-	182	185	-	29631	95%	3%	3%
OLA051	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	63	76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	35	615	0	63	76	2.0	11	182	184	185	29631	95%	3%	3%
OLA052	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	592	0	-	-	0.0	-	182	185	-	29631	95%	3%	3%
OLA053	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	57	69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	665	0	57	69	2.0	19	182	184	185	29631	95%	3%	3%
OLA054	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	53	63	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	704	0	53	63	2.0	12	182	184	186	29631	95%	3%	3%
OLA055	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	650	0	-	-	0.0	-	182	185	-	29631	95%	3%	3%
OLA056	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	52	61	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	37	746	0	52	61	2.0	13	182	185	186	29631	95%	3%	3%
OLA057	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	696	0	-	-	0.0	-	182	185	-	29631	95%	3%	3%
OLA058	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	54	62	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	35	789	0	54	62	2.0	10	182	185	186	29631	95%	3%	3%

OLA059	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	753	0	-	-	0.0	-	182	185	-	29631	95%	3%	3%
OLA060	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	57	64	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	39	837	0	57	64	1.8	15	182	186	186	29631	95%	3%	3%
OLA061	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	818	0	-	-	0.0	-	182	184	-	29631	95%	3%	3%
OLA062	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	59	66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	32	881	0	59	66	1.8	7	182	186	185	29631	95%	3%	3%
OLA063	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	16	883	0	-	-	0.0	-	182	185	-	29631	95%	3%	3%
OLA064	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	61	67	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	935	0	61	67	1.8	6	182	186	185	29631	95%	3%	3%
OLA065	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	21	951	0	-	-	0.0	-	182	183	-	29631	95%	3%	3%
OLA066	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	996	0	-	-	0.0	-	182	183	-	29631	95%	3%	3%
OLA067	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	64	69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	1095	0	64	69	1.8	14	182	181	182	29631	95%	3%	3%
OLA068	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	1077	0	-	-	0.0	-	182	180	-	29631	95%	3%	3%
OLA069	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	65	70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	60	1163	0	65	70	1.8	31	182	181	180	29631	95%	3%	3%
OLA070	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	67	71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	1201	0	67	71	1.8	17	182	179	178	29631	95%	3%	3%
OLA071	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	1165	0	-	-	0.0	-	182	178	-	29631	95%	3%	3%
OLA072	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	1228	0	-	-	0.0	-	182	177	-	29631	95%	3%	3%
OLA073	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	68	71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	1280	0	68	71	1.9	10	182	177	177	29631	95%	3%	3%
OLA074	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	1302	0	-	-	0.0	-	182	176	-	29631	95%	3%	3%
OLA075	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	58	61	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	70	1376	0	-	-	0.0	-	182	175	-	29631	95%	3%	3%
OLA076	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	51	54	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	79	1436	0	-	-	0.0	-	182	175	-	29631	95%	3%	3%
OLA077	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	24	1567	0	-	-	0.0	-	182	174	-	29631	95%	3%	3%
OLA078	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	64	66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	72	1624	0	-	-	0.0	-	182	172	-	29631	95%	3%	3%
OLA079	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	35	1639	0	-	-	0.0	-	182	175	-	29631	95%	3%	3%
OLA080	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	74	75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	33	1670	0	-	-	0.0	-	182	174	-	29631	95%	3%	3%
OLA081	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	54	1680	0	-	-	0.0	-	182	175	-	29631	95%	3%	3%
OLA082	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	81	83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	2030	0	-	-	0.0	-	182	181	-	29631	95%	3%	3%
OLA083	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	78	79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	2072	0	78	79	2.0	13	182	182	182	29631	95%	3%	3%
OLA084	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	68	69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	50	2125	0	68	69	1.6	18	182	183	182	29631	95%	3%	3%
OLA085	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	50	51	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	39	2219	0	50	51	2.6	8	182	182	181	29631	95%	3%	3%
OLA086	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	82	3469	0	89	89	2.0	19	182	193	194	29631	95%	3%	3%
OLA087	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	66	3507	0	90	90	2.0	55	182	194	194	29631	95%	3%	3%
OLA088	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	88	3532	0	89	90	6.0	21	182	194	194	29631	95%	3%	3%
OLA089	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	3759	0	-	-	0.0	-	182	205	-	29631	95%	3%	3%
OLA090	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	83	3785	0	-	-	0.0	-	182	205	-	29631	95%	3%	3%
OLA091	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	55	4161	0	-	-	0.0	-	182	203	-	29631	95%	3%	3%
OLA092	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	4307	0	-	-	0.0	-	182	203	-	29631	95%	3%	3%
OLA093	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	88	88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	48	4405	0	88	88	1.7	17	182	202	201	29631	95%	3%	3%
OLA094	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	73	74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	4577	0	-	-	0.0	-	182	202	-	29631	95%	3%	3%
OLA095	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	71	71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	78	4648	0	-	-	0.0	-	182	202	-	29631	95%	3%	3%
OLA096	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	87	4637	0	-	-	0.0	-	182	202	-	29631	95%	3%	3%
OLA097	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	59	59	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	37	4698	0	59	59	1.8	5	182	202	201	29631	95%	3%	3%
OLA098	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	59	59	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	4743	0	59	59	1.8	4	182	202	202	29631	95%	3%	3%
OLA099	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	60	60	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	4865	0	-	-	0.0	-	182	201	-	29631	95%	3%	3%
OLA100	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	5271	0	-	-	0.0	-	182	202	-	29631	95%	3%	3%
OLA101	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	5337	0	-	-	0.0	-	182	201	-	29631	95%	3%	3%
OLA102	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	67	5523	0	-	-	0.0	-	182	198	-	29631	95%	3%	3%
OLA103	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	59	5693	0	-	-	0.0	-	182	197	-	29631	95%	3%	3%
OLA104	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	88	5891	0	-	-	0.0	-	182	196	-	29631	95%	3%	3%

Mature State of Development - 2041 S02_SBb Kennedy Road 16th Avenue Highway 7

POR	Posted Speed Limit (km/hr)	Road Grade (%)		Road Grade Mode		Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)		Topography		Wood Depth	No of Row of Houses	Density of 1st Row		Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	177	2196	0	-90	-87	2.0	7	182	209	209	29631	95%	3%	3%
OLA002	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	60	2127	0	-	-	0.0	-	182	207	-	29631	95%	3%	3%
OLA003	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	82	88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	2109	0	82	88	2.0	4	182	207	206	29631	95%	3%	3%
OLA004	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	81	87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	2016	0	-	-	0.0	-	182	207	-	29631	95%	3%	3%
OLA005	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	81	87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	1973	0	81	87	2.2	5	182	208	207	29631	95%	3%	3%
OLA006	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	1937	0	-90	-90	2.1	6	182	207	207	29631	95%	3%	3%
OLA007	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	82	88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	1941	0	82	88	2.1	5	182	208	207	29631	95%	3%	3%
OLA008	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	1866	0	-	-	0.0	-	182	207	-	29631	95%	3%	3%
OLA009	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	82	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	20	1865	0	82	89	2.1	5	182	207	207	29631	95%	3%	3%
OLA010	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	1765	0	-90	-90	1.9	8	182	206	206	29631	95%	3%	3%
OLA011	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	80	87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	60	1773	0	-	-	0.0	-	182	206	-	29631	95%	3%	3%
OLA012	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	1676	0	-90	-90	2.4	7	182	204	204	29631	95%	3%	3%
OLA013	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	1617	0	-	-	0.0	-	182	204	-	29631	95%	3%	3%
OLA014	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	80	88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	18	1605	0	80	88	2.0	4	182	203	203	29631	95%	3%	3%
OLA015	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	81	88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	1526	0	81	88	2.0	6	182	202	202	29631	95%	3%	3%
OLA016	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	79	87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	62	1484	0	-	-	0.0	-	182	200	-	29631	95%	3%	3%
OLA017	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	42	1238	0	-90	-89	1.9	7	182	196	196	29631	95%	3%	3%
OLA018	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	1203	0	-90	-89	1.9	2	182	196	196	29631	95%	3%	3%
OLA019	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	68	1163	0	-	-	0.0	-	182	197	-	29631	95%	3%	3%
OLA020	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	1068	0	-90	-89	2.0	8	182	197	197	29631	95%	3%	3%
OLA021	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	76	1024	0	-	-	0.0	-	182	200	-	29631	95%	3%	3%
OLA022	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	50	877	0	-90	-83	9.0	3	182	200	200	29631	95%	3%	3%
OLA023	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	74	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	71	850	0	-	-	0.0	-	182	199	-	29631	95%	3%	3%
OLA024	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	73	87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	665	0	-	-	0.0	-	182	193	-	29631	95%	3%	3%
OLA025	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	598	0	-90	-86	1.8	5	182	191	192	29631	95%	3%	3%
OLA026	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	53	70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	217	0	55	70	6.0	3	182	183	183	29631	95%	3%	3%
OLA027	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	163	0	-89	-81	2.5	26	182	185	184	29631	95%	3%	3%
OLA028	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	53	71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	137	0	-	-	0.0	-	182	182	-	29631	95%	3%	3%
OLA029	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-68	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	57	107	0	-	-	0.0	-	182	185	-	29631	95%	3%	3%
OLA030	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-43	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	55	72	0	-	-	0.0	-	182	184	-	29631	95%	3%	3%
OLA031	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	55	55	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	75	0	-	-	0.0	-	182	182	-	29631	95%	3%	3%
OLA032	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-6	54	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	59	59	0	-	-	0.0	-	182	181	-	29631	95%	3%	3%
OLA033	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	54	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	41	41	0	-	-	0.0	-	181	182	-	29631	95%	3%	3%
OLA034	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-41	61	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	29	0	30	61	6.0	3	181	182	182	29631	95%	3%	3%
OLA035	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-65	66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	31	0	-65	-15	6.0	3	181	182	182	29631	95%	3%	3%
OLA036	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	41	41	0	-	-	0.0	-	181	182	-	29631	95%	3%	3%
OLA037	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-68	71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	26	0	-	-	0.0	-	182	182	-	29631	95%	3%	3%
OLA038	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-83	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	39	39	0	-	-	0.0	-	182	182	-	29631	95%	3%	3%
OLA039	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-67	68	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	29	0	-	-	0.0	-	182	181	-	29631	95%	3%	3%
OLA040	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-63	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	39	39	0	-	-	0.0	-	182	183	-	29631	95%	3%	3%
OLA041	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-61	66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	31	0	-	-	0.0	-	182	181	-	29631	95%	3%	3%
OLA042	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-65	57	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	27	0	35	57	6.0	3	182	182	182	29631	95%	3%	3%
OLA043	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-25	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	41	41	0	-25	-4	1.8	12	182	183	182	29631	95%	3%	3%
OLA044	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-68	-31	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	30	0	-43	-31	1.8	9	182	182	182	29631	95%	3%	3%
OLA045	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-76	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	67	0	-	-	0.0	-	182	183	-	29631	95%	3%	3%
OLA046	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	57	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	85	0	-	-	0.0	-	182	185	-	29631	95%	3%	3%
OLA047	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	-84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	35	135	0	-86	-84	6.0	11	182	183	183	29631	95%	3%	3%
OLA048	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	64	74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	219	0	-	-	0.0	-	182	184	-	29631	95%	3%	3%
OLA049	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	61	70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	50	250	0	-	-	0.0	-	182	184	-	29631	95%	3%	3%
OLA050	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	213	0	-	-	0.0	-	182	185	-	29631	95%	3%	3%
OLA051	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	60	63	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	35	292	0	60	63	2.0	11	182	184	185	29631	95%	3%	3%
OLA052	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	269	0	-	-	0.0	-	182	185	-	29631	95%	3%	3%
OLA053	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	56	57	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	341	0	56	57	2.0	19	182	184	185	29631	95%	3%	3%
OLA054	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	53	55	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	380	0	53	55	2.0	12	182	184	186	29631	95%	3%	3%
OLA055	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	330	0	-	-	0.0	-	182	185	-	29631	95%	3%	3%
OLA056	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	52	55	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	37	424	0	52	55	2.0	13	182	185	186	29631	95%	3%	3%
OLA057	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	378	0	-	-	0.0	-	182	185	-	29631	95%	3%	3%
OLA058	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	54	59	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	35	469	0	54	59	2.0	10	182	185	186	29631	95%	3%	3%

OLA059	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	440	0	-	-	0.0	-	182	185	-	29631	95%	3%	3%
OLA060	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	57	62	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	39	519	0	57	62	1.8	15	182	186	186	29631	95%	3%	3%
OLA061	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	510	0	-	-	0.0	-	182	184	-	29631	95%	3%	3%
OLA062	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	59	65	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	32	567	0	59	65	1.8	7	182	186	185	29631	95%	3%	3%
OLA063	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	16	577	0	-	-	0.0	-	182	185	-	29631	95%	3%	3%
OLA064	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	61	67	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	621	0	61	67	1.8	6	182	186	185	29631	95%	3%	3%
OLA065	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	21	650	0	-	-	0.0	-	182	183	-	29631	95%	3%	3%
OLA066	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	699	0	-	-	0.0	-	182	183	-	29631	95%	3%	3%
OLA067	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	64	71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	789	0	64	71	1.8	14	182	181	182	29631	95%	3%	3%
OLA068	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	783	0	-	-	0.0	-	182	180	-	29631	95%	3%	3%
OLA069	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	65	72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	60	861	0	65	72	1.8	31	182	181	180	29631	95%	3%	3%
OLA070	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	67	74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	903	0	67	74	1.8	17	182	179	178	29631	95%	3%	3%
OLA071	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	875	0	-	-	0.0	-	182	178	-	29631	95%	3%	3%
OLA072	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	941	0	-	-	0.0	-	182	177	-	29631	95%	3%	3%
OLA073	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	68	75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	985	0	68	75	1.9	10	182	177	177	29631	95%	3%	3%
OLA074	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	1019	0	-	-	0.0	-	182	176	-	29631	95%	3%	3%
OLA075	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	58	64	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	70	1082	0	-	-	0.0	-	182	175	-	29631	95%	3%	3%
OLA076	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	51	57	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	79	1145	0	-	-	0.0	-	182	175	-	29631	95%	3%	3%
OLA077	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	24	1302	0	-	-	0.0	-	182	174	-	29631	95%	3%	3%
OLA078	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	64	70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	72	1349	0	-	-	0.0	-	182	172	-	29631	95%	3%	3%
OLA079	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	35	1378	0	-	-	0.0	-	182	175	-	29631	95%	3%	3%
OLA080	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	74	81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	33	1402	0	-	-	0.0	-	182	174	-	29631	95%	3%	3%
OLA081	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	54	1423	0	-	-	0.0	-	182	175	-	29631	95%	3%	3%
OLA082	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	81	87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	1764	0	-	-	0.0	-	182	181	-	29631	95%	3%	3%
OLA083	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	78	84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	1808	0	78	84	2.0	13	182	182	182	29631	95%	3%	3%
OLA084	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	68	73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	50	1863	0	68	73	1.6	18	182	183	182	29631	95%	3%	3%
OLA085	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	50	56	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	39	1962	0	50	56	2.6	8	182	182	181	29631	95%	3%	3%
OLA086	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	82	3256	0	89	90	2.0	19	182	193	194	29631	95%	3%	3%
OLA087	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	66	3295	0	90	90	2.0	55	182	194	194	29631	95%	3%	3%
OLA088	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	88	3319	0	90	90	6.0	21	182	194	194	29631	95%	3%	3%
OLA089	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	3548	0	-	-	0.0	-	182	205	-	29631	95%	3%	3%
OLA090	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	83	3571	0	-	-	0.0	-	182	205	-	29631	95%	3%	3%
OLA091	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	55	3949	0	-	-	0.0	-	182	203	-	29631	95%	3%	3%
OLA092	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	4095	0	-	-	0.0	-	182	203	-	29631	95%	3%	3%
OLA093	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	88	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	48	4193	0	88	90	1.7	17	182	202	201	29631	95%	3%	3%
OLA094	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	74	77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	4365	0	-	-	0.0	-	182	202	-	29631	95%	3%	3%
OLA095	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	71	74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	78	4436	0	-	-	0.0	-	182	202	-	29631	95%	3%	3%
OLA096	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	87	4435	0	-	-	0.0	-	182	202	-	29631	95%	3%	3%
OLA097	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	59	62	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	37	4490	0	59	62	1.8	5	182	202	201	29631	95%	3%	3%
OLA098	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	59	62	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	4534	0	59	62	1.8	4	182	202	202	29631	95%	3%	3%
OLA099	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	60	63	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	4661	0	-	-	0.0	-	182	201	-	29631	95%	3%	3%
OLA100	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	5082	0	-	-	0.0	-	182	202	-	29631	95%	3%	3%
OLA101	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	5150	0	-	-	0.0	-	182	201	-	29631	95%	3%	3%
OLA102	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	67	5341	0	-	-	0.0	-	182	198	-	29631	95%	3%	3%
OLA103	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	-84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	59	5512	0	-	-	0.0	-	182	197	-	29631	95%	3%	3%
OLA104	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	88	5710	0	-	-	0.0	-	182	196	-	29631	95%	3%	3%

Mature State of Development - 2041 S02_SBc Kennedy Road 16th Avenue Highway 7

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode		Road Pavement		Angle 1 (degrees)	Angle 2 (degrees)	Topography		Wood Depth		No of Row of Houses	Density of 1st Row	Intermediate Surface		Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	177	2409	0	-	-	0.0	-	182	209	-	29631	95%	3%	3%
OLA002	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	60	2352	0	-	-	0.0	-	182	207	-	29631	95%	3%	3%
OLA003	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	78	82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	2344	0	78	82	2.0	4	182	207	206	29631	95%	3%	3%
OLA004	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	77	81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	2254	0	-	-	0.0	-	182	207	-	29631	95%	3%	3%
OLA005	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	77	81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	2208	0	77	81	2.2	5	182	208	207	29631	95%	3%	3%
OLA006	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	2165	0	-	-	0.0	-	182	207	-	29631	95%	3%	3%
OLA007	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	78	82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	2178	0	78	82	2.1	5	182	208	207	29631	95%	3%	3%
OLA008	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	2094	0	-	-	0.0	-	182	207	-	29631	95%	3%	3%
OLA009	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	78	82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	20	2101	0	78	82	2.1	5	182	207	207	29631	95%	3%	3%
OLA010	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	1993	0	-	-	0.0	-	182	206	-	29631	95%	3%	3%
OLA011	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	76	80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	60	2015	0	-	-	0.0	-	182	206	-	29631	95%	3%	3%
OLA012	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	1906	0	-	-	0.0	-	182	204	-	29631	95%	3%	3%
OLA013	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	1846	0	-	-	0.0	-	182	204	-	29631	95%	3%	3%
OLA014	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	76	80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	18	1844	0	76	80	2.0	4	182	203	203	29631	95%	3%	3%
OLA015	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	76	81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	1767	0	76	81	2.0	6	182	202	202	29631	95%	3%	3%
OLA016	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	75	79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	62	1730	0	-	-	0.0	-	182	200	-	29631	95%	3%	3%
OLA017	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	42	1472	0	-	-	0.0	-	182	196	-	29631	95%	3%	3%
OLA018	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	1437	0	-	-	0.0	-	182	196	-	29631	95%	3%	3%
OLA019	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	68	1394	0	-	-	0.0	-	182	197	-	29631	95%	3%	3%
OLA020	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	1304	0	-	-	0.0	-	182	197	-	29631	95%	3%	3%
OLA021	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	76	1254	0	-	-	0.0	-	182	200	-	29631	95%	3%	3%
OLA022	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	50	1112	0	-	-	0.0	-	182	200	-	29631	95%	3%	3%
OLA023	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	68	74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	71	1112	0	-	-	0.0	-	182	199	-	29631	95%	3%	3%
OLA024	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	66	73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	927	0	-	-	0.0	-	182	193	-	29631	95%	3%	3%
OLA025	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	843	0	-	-	0.0	-	182	191	-	29631	95%	3%	3%
OLA026	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	49	53	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	526	0	-	-	0.0	-	182	183	-	29631	95%	3%	3%
OLA027	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	434	0	-	-	0.0	-	182	185	-	29631	95%	3%	3%
OLA028	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	50	53	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	452	0	-	-	0.0	-	182	182	-	29631	95%	3%	3%
OLA029	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	57	379	0	-	-	0.0	-	182	185	-	29631	95%	3%	3%
OLA030	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	55	342	0	-	-	0.0	-	182	184	-	29631	95%	3%	3%
OLA031	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	55	55	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	399	0	-	-	0.0	-	182	182	-	29631	95%	3%	3%
OLA032	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	54	57	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	59	350	0	-	-	0.0	-	182	181	-	29631	95%	3%	3%
OLA033	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	41	268	0	-	-	0.0	-	182	182	-	29631	95%	3%	3%
OLA034	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	61	64	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	313	0	61	64	6.0	3	182	182	182	29631	95%	3%	3%
OLA035	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	66	73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	240	0	-	-	0.0	-	182	182	-	29631	95%	3%	3%
OLA036	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	41	206	0	-	-	0.0	-	182	182	-	29631	95%	3%	3%
OLA037	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	71	81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	185	0	-	-	0.0	-	182	182	-	29631	95%	3%	3%
OLA038	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-85	-83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	39	141	0	-	-	0.0	-	182	182	-	29631	95%	3%	3%
OLA039	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	68	86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	138	0	-	-	0.0	-	182	181	-	29631	95%	3%	3%
OLA040	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-71	-63	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	39	85	0	-	-	0.0	-	182	183	-	29631	95%	3%	3%
OLA041	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	66	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	77	0	-	-	0.0	-	182	181	-	29631	95%	3%	3%
OLA042	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	57	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	49	0	57	90	6.0	3	182	182	182	29631	95%	3%	3%
OLA043	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-66	-25	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	41	45	0	-47	-25	1.8	12	182	183	182	29631	95%	3%	3%
OLA044	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-31	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	26	0	-31	5	1.8	9	182	182	182	29631	95%	3%	3%
OLA045	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-71	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	26	0	-	-	0.0	-	182	183	-	29631	95%	3%	3%
OLA046	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-61	57	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	43	0	-61	-45	6.0	3	182	185	185	29631	95%	3%	3%
OLA047	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-84	87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	35	35	0	-84	-40	6.0	11	183	183	183	29631	95%	3%	3%
OLA048	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-50	64	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	43	0	-50	-17	2.0	10	184	184	184	29631	95%	3%	3%
OLA049	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-32	61	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	50	50	0	-32	61	2.0	25	184	184	185	29631	95%	3%	3%
OLA050	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	64	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	25	0	-	-	0.0	-	184	185	-	29631	95%	3%	3%
OLA051	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	24	60	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	35	39	0	24	60	2.0	11	184	184	185	29631	95%	3%	3%
OLA052	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-36	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	35	0	-	-	0.0	-	184	185	-	29631	95%	3%	3%
OLA053	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	52	56	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	80	0	52	56	2.0	19	184	184	185	29631	95%	3%	3%
OLA054	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	55	64	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	122	0	55	64	2.0	12	184	184	186	29631	95%	3%	3%
OLA055	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	95	0	-	-	0.0	-	184	185	-	29631	95%	3%	3%
OLA056	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	55	69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	37	172	0	55	69	2.0	13	184	185	186	29631	95%	3%	3%
OLA057	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	150	0	-	-	0.0	-	184	185	-	29631	95%	3%	3%
OLA058	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	59	75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	35	223	0	59	75	2.0	10	184	185	186	29631	95%	3%	3%

OLA059	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	216	0	-	-	0.0	-	184	185	-	29631	95%	3%	3%
OLA060	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	62	77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	39	278	0	62	77	1.8	15	184	186	186	29631	95%	3%	3%
OLA061	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	292	0	-	-	0.0	-	184	184	-	29631	95%	3%	3%
OLA062	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	65	80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	32	332	0	65	80	1.8	7	184	186	185	29631	95%	3%	3%
OLA063	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	16	357	0	-	-	0.0	-	184	185	-	29631	95%	3%	3%
OLA064	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	67	80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	385	0	67	80	1.8	6	184	186	185	29631	95%	3%	3%
OLA065	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	21	435	0	-	-	0.0	-	184	183	-	29631	95%	3%	3%
OLA066	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	489	0	-	-	0.0	-	184	183	-	29631	95%	3%	3%
OLA067	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	71	82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	562	0	71	82	1.8	14	184	181	182	29631	95%	3%	3%
OLA068	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	575	0	-90	-90	6.0	3	184	180	180	29631	95%	3%	3%
OLA069	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	72	82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	60	637	0	72	82	1.8	31	184	181	180	29631	95%	3%	3%
OLA070	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	74	84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	682	0	74	84	1.8	17	184	179	178	29631	95%	3%	3%
OLA071	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	669	0	-	-	0.0	-	184	178	-	29631	95%	3%	3%
OLA072	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	737	0	-	-	0.0	-	184	177	-	29631	95%	3%	3%
OLA073	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	75	84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	768	0	75	84	1.9	10	184	177	177	29631	95%	3%	3%
OLA074	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	818	0	-	-	0.0	-	184	176	-	29631	95%	3%	3%
OLA075	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	64	72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	70	865	0	-	-	0.0	-	184	175	-	29631	95%	3%	3%
OLA076	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	57	65	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	79	930	0	-	-	0.0	-	184	175	-	29631	95%	3%	3%
OLA077	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	24	1116	0	-	-	0.0	-	184	174	-	29631	95%	3%	3%
OLA078	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	70	78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	72	1150	0	-	-	0.0	-	184	172	-	29631	95%	3%	3%
OLA079	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	35	1196	0	-90	-86	6.0	3	184	175	175	29631	95%	3%	3%
OLA080	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	81	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	33	1210	0	-	-	0.0	-	184	174	-	29631	95%	3%	3%
OLA081	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	54	1244	0	-	-	0.0	-	184	175	-	29631	95%	3%	3%
OLA082	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	87	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	1570	0	-	-	0.0	-	184	181	-	29631	95%	3%	3%
OLA083	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	84	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	1616	0	84	90	2.0	13	184	182	182	29631	95%	3%	3%
OLA084	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	73	79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	50	1671	0	73	79	1.6	18	184	183	182	29631	95%	3%	3%
OLA085	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	56	61	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	39	1775	0	56	61	2.6	8	184	182	181	29631	95%	3%	3%
OLA086	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	82	3103	0	-	-	0.0	-	184	193	-	29631	95%	3%	3%
OLA087	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	66	3143	0	-	-	0.0	-	184	194	-	29631	95%	3%	3%
OLA088	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	88	3165	0	-	-	0.0	-	184	194	-	29631	95%	3%	3%
OLA089	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	3395	0	-	-	0.0	-	184	205	-	29631	95%	3%	3%
OLA090	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	83	3416	0	-	-	0.0	-	184	205	-	29631	95%	3%	3%
OLA091	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	55	3794	0	-	-	0.0	-	184	203	-	29631	95%	3%	3%
OLA092	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	3940	0	-	-	0.0	-	184	203	-	29631	95%	3%	3%
OLA093	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	48	4037	0	-	-	0.0	-	184	202	-	29631	95%	3%	3%
OLA094	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	77	80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	4209	0	-	-	0.0	-	184	202	-	29631	95%	3%	3%
OLA095	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	74	77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	78	4280	0	-	-	0.0	-	184	202	-	29631	95%	3%	3%
OLA096	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	87	4287	0	-	-	0.0	-	184	202	-	29631	95%	3%	3%
OLA097	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	62	65	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	37	4337	0	62	65	1.8	5	184	202	201	29631	95%	3%	3%
OLA098	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	62	65	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	4381	0	62	65	1.8	4	184	202	202	29631	95%	3%	3%
OLA099	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	63	66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	4512	0	-	-	0.0	-	184	201	-	29631	95%	3%	3%
OLA100	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	4945	0	-	-	0.0	-	184	202	-	29631	95%	3%	3%
OLA101	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	5014	0	-	-	0.0	-	184	201	-	29631	95%	3%	3%
OLA102	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	67	5210	0	-	-	0.0	-	184	198	-	29631	95%	3%	3%
OLA103	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-84	-81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	59	5380	0	-	-	0.0	-	184	197	-	29631	95%	3%	3%
OLA104	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-74	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	88	5577	0	-	-	0.0	-	184	196	-	29631	95%	3%	3%

Mature State of Development - 2041 S02_SBd Kennedy Road 16th Avenue Highway 7

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode		Road Pavement		Angle 1 (degrees)	Angle 2 (degrees)	Topography		Wood Depth		No of Row of Houses	Density of 1st Row	Intermediate Surface		Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	177	2593	0	-	-	0.0	-	184	209	-	29631	95%	3%	3%
OLA002	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	60	2546	0	-	-	0.0	-	184	207	-	29631	95%	3%	3%
OLA003	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	78	79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	2543	0	78	79	2.0	4	184	207	206	29631	95%	3%	3%
OLA004	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	77	79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	2456	0	-	-	0.0	-	184	207	-	29631	95%	3%	3%
OLA005	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	77	78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	2410	0	77	78	2.2	5	184	208	207	29631	95%	3%	3%
OLA006	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	2362	0	-	-	0.0	-	184	207	-	29631	95%	3%	3%
OLA007	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	78	79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	2380	0	78	79	2.1	5	184	208	207	29631	95%	3%	3%
OLA008	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	2292	0	-	-	0.0	-	184	207	-	29631	95%	3%	3%
OLA009	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	78	79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	20	2304	0	78	79	2.1	5	184	207	207	29631	95%	3%	3%
OLA010	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	2191	0	-	-	0.0	-	184	206	-	29631	95%	3%	3%
OLA011	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	76	78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	60	2222	0	-	-	0.0	-	184	206	-	29631	95%	3%	3%
OLA012	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	2105	0	-	-	0.0	-	184	204	-	29631	95%	3%	3%
OLA013	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	2046	0	-	-	0.0	-	184	204	-	29631	95%	3%	3%
OLA014	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	76	78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	18	2050	0	76	78	2.0	4	184	203	203	29631	95%	3%	3%
OLA015	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	76	78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	1975	0	76	78	2.0	6	184	202	202	29631	95%	3%	3%
OLA016	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	75	77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	62	1942	0	-	-	0.0	-	184	200	-	29631	95%	3%	3%
OLA017	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	42	1680	0	-	-	0.0	-	184	196	-	29631	95%	3%	3%
OLA018	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	1645	0	-	-	0.0	-	184	196	-	29631	95%	3%	3%
OLA019	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	68	1600	0	-	-	0.0	-	184	197	-	29631	95%	3%	3%
OLA020	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	1514	0	-	-	0.0	-	184	197	-	29631	95%	3%	3%
OLA021	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	76	1462	0	-	-	0.0	-	184	200	-	29631	95%	3%	3%
OLA022	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	50	1327	0	-	-	0.0	-	184	200	-	29631	95%	3%	3%
OLA023	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	68	74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	71	1341	0	-	-	0.0	-	184	199	-	29631	95%	3%	3%
OLA024	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	66	74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	1158	0	-	-	0.0	-	184	193	-	29631	95%	3%	3%
OLA025	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	1069	0	-	-	0.0	-	184	191	-	29631	95%	3%	3%
OLA026	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	49	67	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	783	0	55	67	6.0	3	184	183	183	29631	95%	3%	3%
OLA027	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	685	0	-	-	0.0	-	184	185	-	29631	95%	3%	3%
OLA028	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	50	70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	711	0	-	-	0.0	-	184	182	-	29631	95%	3%	3%
OLA029	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	57	633	0	-	-	0.0	-	184	185	-	29631	95%	3%	3%
OLA030	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	55	598	0	-	-	0.0	-	184	184	-	29631	95%	3%	3%
OLA031	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	55	78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	660	0	-	-	0.0	-	184	182	-	29631	95%	3%	3%
OLA032	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	57	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	59	609	0	-	-	0.0	-	184	181	-	29631	95%	3%	3%
OLA033	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	41	528	0	-	-	0.0	-	184	182	-	29631	95%	3%	3%
OLA034	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	64	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	573	0	64	90	6.0	3	184	182	182	29631	95%	3%	3%
OLA035	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	73	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	497	0	-	-	0.0	-	184	182	-	29631	95%	3%	3%
OLA036	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-68	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	41	466	0	-	-	0.0	-	184	182	-	29631	95%	3%	3%
OLA037	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	81	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	441	0	-	-	0.0	-	184	182	-	29631	95%	3%	3%
OLA038	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-85	-57	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	39	401	0	-	-	0.0	-	184	182	-	29631	95%	3%	3%
OLA039	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	86	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	389	0	-	-	0.0	-	184	181	-	29631	95%	3%	3%
OLA040	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-71	-42	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	39	344	0	-	-	0.0	-	184	183	-	29631	95%	3%	3%
OLA041	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	323	0	-	-	0.0	-	184	181	-	29631	95%	3%	3%
OLA042	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	295	0	-	-	0.0	-	184	182	-	29631	95%	3%	3%
OLA043	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-66	-40	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	41	293	0	-47	-40	1.8	12	184	183	182	29631	95%	3%	3%
OLA044	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	239	0	-	-	0.0	-	184	182	-	29631	95%	3%	3%
OLA045	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	194	0	-	-	0.0	-	184	183	-	29631	95%	3%	3%
OLA046	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-61	-41	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	209	0	-61	-45	6.0	3	184	185	185	29631	95%	3%	3%
OLA047	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	87	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	35	127	0	-	-	0.0	-	184	183	-	29631	95%	3%	3%
OLA048	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-57	-50	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	80	0	-57	-50	2.0	10	184	184	184	29631	95%	3%	3%
OLA049	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-61	-32	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	50	61	0	-61	-32	2.0	25	184	184	185	29631	95%	3%	3%
OLA050	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	64	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	49	0	-	-	0.0	-	184	185	-	29631	95%	3%	3%
OLA051	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-70	24	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	35	35	0	-70	24	2.0	11	184	184	185	29631	95%	3%	3%
OLA052	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-36	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	29	0	-	-	0.0	-	184	185	-	29631	95%	3%	3%
OLA053	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-76	52	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	43	0	-76	52	2.0	19	185	184	185	29631	95%	3%	3%
OLA054	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-83	64	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	36	0	-83	64	2.0	12	185	184	186	29631	95%	3%	3%
OLA055	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-79	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	34	0	-	-	0.0	-	185	185	-	29631	95%	3%	3%
OLA056	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	37	37	0	-87	69	2.0	13	185	185	186	29631	95%	3%	3%
OLA057	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	34	0	-	-	0.0	-	185	185	-	29631	95%	3%	3%
OLA058	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	35	35	0	-87	75	2.0	10	185	185	186	29631	95%	3%	3%

OLA059	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-88	87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	31	0	-	-	0.0	-	185	185	-	29631	95%	3%	3%
OLA060	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	39	39	0	-86	77	1.8	15	185	186	186	29631	95%	3%	3%
OLA061	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-88	87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	33	0	-	-	0.0	-	185	184	-	29631	95%	3%	3%
OLA062	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	32	32	0	-86	80	1.8	7	185	186	185	29631	95%	3%	3%
OLA063	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	16	16	0	-	-	0.0	-	185	185	-	29631	95%	3%	3%
OLA064	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-82	80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	53	0	-82	80	1.8	6	184	186	185	29631	95%	3%	3%
OLA065	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	21	21	0	-	-	0.0	-	183	183	-	29631	95%	3%	3%
OLA066	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	33	0	25	85	6.0	3	183	183	183	29631	95%	3%	3%
OLA067	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-78	82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	58	0	-78	82	1.8	14	182	181	182	29631	95%	3%	3%
OLA068	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	29	0	-90	-35	6.0	3	181	180	180	29631	95%	3%	3%
OLA069	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	60	60	0	-73	82	1.8	31	179	181	180	29631	95%	3%	3%
OLA070	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-72	84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	46	0	-72	84	1.8	17	178	179	178	29631	95%	3%	3%
OLA071	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	27	0	-	-	0.0	-	178	178	-	29631	95%	3%	3%
OLA072	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	30	0	-	-	0.0	-	176	177	-	29631	95%	3%	3%
OLA073	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-56	84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	44	0	-56	84	1.9	10	176	177	177	29631	95%	3%	3%
OLA074	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	15	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	40	0	-	-	0.0	-	176	176	-	29631	95%	3%	3%
OLA075	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	13	72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	70	73	0	-	-	0.0	-	176	175	-	29631	95%	3%	3%
OLA076	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	39	65	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	79	113	0	-	-	0.0	-	176	175	-	29631	95%	3%	3%
OLA077	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	24	307	0	-	-	0.0	-	176	174	-	29631	95%	3%	3%
OLA078	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	78	84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	72	322	0	-	-	0.0	-	176	172	-	29631	95%	3%	3%
OLA079	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	35	388	0	-86	-70	6.0	3	176	175	175	29631	95%	3%	3%
OLA080	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	33	387	0	-	-	0.0	-	176	174	-	29631	95%	3%	3%
OLA081	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	54	439	0	-	-	0.0	-	176	175	-	29631	95%	3%	3%
OLA082	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	741	0	-	-	0.0	-	176	181	-	29631	95%	3%	3%
OLA083	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	788	0	90	90	2.0	13	176	182	182	29631	95%	3%	3%
OLA084	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	79	82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	50	843	0	79	82	1.6	18	176	183	182	29631	95%	3%	3%
OLA085	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	61	65	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	39	950	0	61	65	2.6	8	176	182	181	29631	95%	3%	3%
OLA086	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	82	2305	0	-	-	0.0	-	176	193	-	29631	95%	3%	3%
OLA087	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	66	2346	0	-	-	0.0	-	176	194	-	29631	95%	3%	3%
OLA088	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	88	2365	0	-	-	0.0	-	176	194	-	29631	95%	3%	3%
OLA089	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	2595	0	-	-	0.0	-	176	205	-	29631	95%	3%	3%
OLA090	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	83	2613	0	-	-	0.0	-	176	205	-	29631	95%	3%	3%
OLA091	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	55	2990	0	-	-	0.0	-	176	203	-	29631	95%	3%	3%
OLA092	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	3135	0	-	-	0.0	-	176	203	-	29631	95%	3%	3%
OLA093	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	48	3232	0	-	-	0.0	-	176	202	-	29631	95%	3%	3%
OLA094	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	80	83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	3402	0	-	-	0.0	-	176	202	-	29631	95%	3%	3%
OLA095	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	77	80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	78	3473	0	-	-	0.0	-	176	202	-	29631	95%	3%	3%
OLA096	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	87	3490	0	-	-	0.0	-	176	202	-	29631	95%	3%	3%
OLA097	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	65	68	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	37	3534	0	65	68	1.8	5	176	202	201	29631	95%	3%	3%
OLA098	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	65	68	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	3577	0	65	68	1.8	4	176	202	202	29631	95%	3%	3%
OLA099	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	66	69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	3712	0	-	-	0.0	-	176	201	-	29631	95%	3%	3%
OLA100	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	4160	0	-	-	0.0	-	176	202	-	29631	95%	3%	3%
OLA101	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	4230	0	-	-	0.0	-	176	201	-	29631	95%	3%	3%
OLA102	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	67	4431	0	-	-	0.0	-	176	198	-	29631	95%	3%	3%
OLA103	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	59	4601	0	-	-	0.0	-	176	197	-	29631	95%	3%	3%
OLA104	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-72	-69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	88	4797	0	-	-	0.0	-	176	196	-	29631	95%	3%	3%

Mature State of Development - 2041 S02_SBe Kennedy Road 16th Avenue Highway 7

POR	Posted Speed Limit (km/hr)	Road Grade (%)		Road Grade Mode		Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)		Topography		Wood Depth	No of Row of Houses	Density of 1st Row		Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	177	3424	0	-	-	0.0	-	176	209	-	29631	95%	3%	3%
OLA002	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	60	3376	0	-	-	0.0	-	176	207	-	29631	95%	3%	3%
OLA003	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	79	81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	3372	0	79	81	2.0	4	176	207	206	29631	95%	3%	3%
OLA004	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	79	81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	3284	0	-	-	0.0	-	176	207	-	29631	95%	3%	3%
OLA005	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	78	81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	3238	0	78	81	2.2	5	176	208	207	29631	95%	3%	3%
OLA006	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	3191	0	-	-	0.0	-	176	207	-	29631	95%	3%	3%
OLA007	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	79	81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	3208	0	79	81	2.1	5	176	208	207	29631	95%	3%	3%
OLA008	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	3121	0	-	-	0.0	-	176	207	-	29631	95%	3%	3%
OLA009	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	79	81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	20	3132	0	79	81	2.1	5	176	207	207	29631	95%	3%	3%
OLA010	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	3020	0	-	-	0.0	-	176	206	-	29631	95%	3%	3%
OLA011	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	78	80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	60	3048	0	-	-	0.0	-	176	206	-	29631	95%	3%	3%
OLA012	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	2934	0	-	-	0.0	-	176	204	-	29631	95%	3%	3%
OLA013	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	2874	0	-	-	0.0	-	176	204	-	29631	95%	3%	3%
OLA014	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	78	80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	18	2876	0	78	80	2.0	4	176	203	203	29631	95%	3%	3%
OLA015	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	78	80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	2800	0	78	80	2.0	6	176	202	202	29631	95%	3%	3%
OLA016	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	77	80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	62	2765	0	-	-	0.0	-	176	200	-	29631	95%	3%	3%
OLA017	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	42	2505	0	-	-	0.0	-	176	196	-	29631	95%	3%	3%
OLA018	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	2470	0	-	-	0.0	-	176	196	-	29631	95%	3%	3%
OLA019	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	68	2426	0	-	-	0.0	-	176	197	-	29631	95%	3%	3%
OLA020	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	2338	0	-	-	0.0	-	176	197	-	29631	95%	3%	3%
OLA021	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	76	2287	0	-	-	0.0	-	176	200	-	29631	95%	3%	3%
OLA022	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	50	2148	0	-	-	0.0	-	176	200	-	29631	95%	3%	3%
OLA023	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	74	78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	71	2151	0	-	-	0.0	-	176	199	-	29631	95%	3%	3%
OLA024	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	74	78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	1965	0	-	-	0.0	-	176	193	-	29631	95%	3%	3%
OLA025	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	1882	0	-	-	0.0	-	176	191	-	29631	95%	3%	3%
OLA026	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	67	73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	1542	0	67	73	6.0	3	176	183	183	29631	95%	3%	3%
OLA027	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	1465	0	-	-	0.0	-	176	185	-	29631	95%	3%	3%
OLA028	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	70	76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	1463	0	-	-	0.0	-	176	182	-	29631	95%	3%	3%
OLA029	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	57	1406	0	-	-	0.0	-	176	185	-	29631	95%	3%	3%
OLA030	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	55	1365	0	-	-	0.0	-	176	184	-	29631	95%	3%	3%
OLA031	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	78	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	1394	0	-	-	0.0	-	176	182	-	29631	95%	3%	3%
OLA032	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	85	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	59	1324	0	-	-	0.0	-	176	181	-	29631	95%	3%	3%
OLA033	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	41	1283	0	-	-	0.0	-	176	182	-	29631	95%	3%	3%
OLA034	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	1299	0	-	-	0.0	-	176	182	-	29631	95%	3%	3%
OLA035	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	1216	0	-	-	0.0	-	176	182	-	29631	95%	3%	3%
OLA036	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-68	-61	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	41	1221	0	-	-	0.0	-	176	182	-	29631	95%	3%	3%
OLA037	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	1164	0	-	-	0.0	-	176	182	-	29631	95%	3%	3%
OLA038	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-57	-50	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	39	1163	0	-	-	0.0	-	176	182	-	29631	95%	3%	3%
OLA039	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	1117	0	-	-	0.0	-	176	181	-	29631	95%	3%	3%
OLA040	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-42	-36	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	39	1118	0	-	-	0.0	-	176	183	-	29631	95%	3%	3%
OLA041	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	1064	0	-	-	0.0	-	176	181	-	29631	95%	3%	3%
OLA042	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	1046	0	-	-	0.0	-	176	182	-	29631	95%	3%	3%
OLA043	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-40	-33	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	41	1082	0	-40	-33	1.8	12	176	183	182	29631	95%	3%	3%
OLA044	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	1009	0	-	-	0.0	-	176	182	-	29631	95%	3%	3%
OLA045	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	978	0	-	-	0.0	-	176	183	-	29631	95%	3%	3%
OLA046	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-41	-35	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	1023	0	-	-	0.0	-	176	185	-	29631	95%	3%	3%
OLA047	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	35	922	0	-	-	0.0	-	176	183	-	29631	95%	3%	3%
OLA048	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-57	-52	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	909	0	-57	-52	2.0	10	176	184	184	29631	95%	3%	3%
OLA049	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-61	-56	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	50	884	0	-61	-56	2.0	25	176	184	185	29631	95%	3%	3%
OLA050	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	860	0	-	-	0.0	-	176	185	-	29631	95%	3%	3%
OLA051	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-70	-66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	35	826	0	-70	-66	2.0	11	176	184	185	29631	95%	3%	3%
OLA052	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	804	0	-	-	0.0	-	176	185	-	29631	95%	3%	3%
OLA053	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-76	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	778	0	-76	-72	2.0	19	176	184	185	29631	95%	3%	3%
OLA054	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-83	-79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	725	0	-83	-79	2.0	12	176	184	186	29631	95%	3%	3%
OLA055	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	737	0	-	-	0.0	-	176	185	-	29631	95%	3%	3%
OLA056	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	37	671	0	-87	-82	2.0	13	176	185	186	29631	95%	3%	3%
OLA057	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	87	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	681	0	-	-	0.0	-	176	185	-	29631	95%	3%	3%
OLA058	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	35	616	0	-87	-82	2.0	10	176	185	186	29631	95%	3%	3%

OLA059	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	87	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	615	0	-	-	0.0	-	176	185	-	29631	95%	3%	3%
OLA060	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	-80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	39	561	0	-86	-80	1.8	15	176	186	186	29631	95%	3%	3%
OLA061	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	87	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	539	0	-	-	0.0	-	176	184	-	29631	95%	3%	3%
OLA062	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	-80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	32	504	0	-86	-80	1.8	7	176	186	185	29631	95%	3%	3%
OLA063	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	16	474	0	-	-	0.0	-	176	185	-	29631	95%	3%	3%
OLA064	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-82	-77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	456	0	-82	-77	1.8	6	176	186	185	29631	95%	3%	3%
OLA065	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	87	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	21	396	0	-	-	0.0	-	176	183	-	29631	95%	3%	3%
OLA066	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	85	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	343	0	85	90	6.0	3	176	183	183	29631	95%	3%	3%
OLA067	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-78	-74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	281	0	-78	-74	1.8	14	176	181	182	29631	95%	3%	3%
OLA068	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	84	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	257	0	-	-	0.0	-	176	180	-	29631	95%	3%	3%
OLA069	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	60	209	0	-73	-72	1.8	31	176	181	180	29631	95%	3%	3%
OLA070	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-72	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	159	0	-72	-72	1.8	17	176	179	178	29631	95%	3%	3%
OLA071	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	81	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	164	0	-	-	0.0	-	176	178	-	29631	95%	3%	3%
OLA072	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	73	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	98	0	-	-	0.0	-	176	177	-	29631	95%	3%	3%
OLA073	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-69	-56	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	80	0	-69	-56	1.9	10	176	177	177	29631	95%	3%	3%
OLA074	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	15	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	41	0	-	-	0.0	-	176	176	-	29631	95%	3%	3%
OLA075	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-70	13	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	70	70	0	-	-	0.0	-	176	175	-	29631	95%	3%	3%
OLA076	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-71	39	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	79	79	0	-	-	0.0	-	175	175	-	29631	95%	3%	3%
OLA077	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	27	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	24	24	0	-	-	0.0	-	172	174	-	29631	95%	3%	3%
OLA078	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	5	84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	72	73	0	5	50	6.0	3	172	172	172	29631	95%	3%	3%
OLA079	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-70	-56	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	35	76	0	-70	-56	6.0	3	172	175	175	29631	95%	3%	3%
OLA080	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	71	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	33	83	0	-	-	0.0	-	172	174	-	29631	95%	3%	3%
OLA081	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-71	-61	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	54	126	0	-	-	0.0	-	172	175	-	29631	95%	3%	3%
OLA082	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	86	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	444	0	-	-	0.0	-	172	181	-	29631	95%	3%	3%
OLA083	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	84	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	488	0	84	90	2.0	13	172	182	182	29631	95%	3%	3%
OLA084	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	74	82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	50	543	0	74	82	1.6	18	172	183	182	29631	95%	3%	3%
OLA085	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	60	65	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	39	644	0	60	65	2.6	8	172	182	181	29631	95%	3%	3%
OLA086	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	82	1989	0	-	-	0.0	-	172	193	-	29631	95%	3%	3%
OLA087	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	66	2030	0	-	-	0.0	-	172	194	-	29631	95%	3%	3%
OLA088	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	88	2050	0	-	-	0.0	-	172	194	-	29631	95%	3%	3%
OLA089	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	2280	0	-	-	0.0	-	172	205	-	29631	95%	3%	3%
OLA090	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	83	2298	0	-	-	0.0	-	172	205	-	29631	95%	3%	3%
OLA091	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	55	2676	0	-	-	0.0	-	172	203	-	29631	95%	3%	3%
OLA092	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	2821	0	-	-	0.0	-	172	203	-	29631	95%	3%	3%
OLA093	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	48	2918	0	-	-	0.0	-	172	202	-	29631	95%	3%	3%
OLA094	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	82	83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	3088	0	-	-	0.0	-	172	202	-	29631	95%	3%	3%
OLA095	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	79	80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	78	3159	0	-	-	0.0	-	172	202	-	29631	95%	3%	3%
OLA096	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	87	3175	0	-	-	0.0	-	172	202	-	29631	95%	3%	3%
OLA097	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	68	68	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	37	3219	0	68	68	1.8	5	172	202	201	29631	95%	3%	3%
OLA098	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	68	68	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	3263	0	68	68	1.8	4	172	202	202	29631	95%	3%	3%
OLA099	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	69	69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	3397	0	-	-	0.0	-	172	201	-	29631	95%	3%	3%
OLA100	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	3844	0	-	-	0.0	-	172	202	-	29631	95%	3%	3%
OLA101	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	3915	0	-	-	0.0	-	172	201	-	29631	95%	3%	3%
OLA102	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	67	4116	0	-	-	0.0	-	172	198	-	29631	95%	3%	3%
OLA103	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-78	-78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	59	4286	0	-	-	0.0	-	172	197	-	29631	95%	3%	3%
OLA104	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-69	-69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	88	4481	0	-	-	0.0	-	172	196	-	29631	95%	3%	3%

Mature State of Development - 2041 S02_SBf Kennedy Road 16th Avenue Highway 7

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode		Road Pavement		Angle 1 (degrees)	Angle 2 (degrees)	Topography		Wood Depth		No of Row of Houses	Density of 1st Row	Intermediate Surface		Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	177	3721	0	-	-	0.0	-	172	209	-	29631	95%	3%	3%
OLA002	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	60	3670	0	-	-	0.0	-	172	207	-	29631	95%	3%	3%
OLA003	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	81	81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	3663	0	81	81	2.0	4	172	207	206	29631	95%	3%	3%
OLA004	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	81	81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	3574	0	-	-	0.0	-	172	207	-	29631	95%	3%	3%
OLA005	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	81	81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	3528	0	81	81	2.2	5	172	208	207	29631	95%	3%	3%
OLA006	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	3484	0	-	-	0.0	-	172	207	-	29631	95%	3%	3%
OLA007	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	81	82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	3497	0	81	82	2.1	5	172	208	207	29631	95%	3%	3%
OLA008	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	3413	0	-	-	0.0	-	172	207	-	29631	95%	3%	3%
OLA009	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	81	82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	20	3421	0	81	82	2.1	5	172	207	207	29631	95%	3%	3%
OLA010	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	3312	0	-	-	0.0	-	172	206	-	29631	95%	3%	3%
OLA011	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	80	80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	60	3335	0	-	-	0.0	-	172	206	-	29631	95%	3%	3%
OLA012	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	3225	0	-	-	0.0	-	172	204	-	29631	95%	3%	3%
OLA013	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	3165	0	-	-	0.0	-	172	204	-	29631	95%	3%	3%
OLA014	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	80	81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	18	3164	0	80	81	2.0	4	172	203	203	29631	95%	3%	3%
OLA015	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	80	81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	3087	0	80	81	2.0	6	172	202	202	29631	95%	3%	3%
OLA016	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	80	81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	62	3050	0	-	-	0.0	-	172	200	-	29631	95%	3%	3%
OLA017	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	42	2793	0	-	-	0.0	-	172	196	-	29631	95%	3%	3%
OLA018	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	2757	0	-	-	0.0	-	172	196	-	29631	95%	3%	3%
OLA019	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	68	2714	0	-	-	0.0	-	172	197	-	29631	95%	3%	3%
OLA020	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	2624	0	-	-	0.0	-	172	197	-	29631	95%	3%	3%
OLA021	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	76	2574	0	-	-	0.0	-	172	200	-	29631	95%	3%	3%
OLA022	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	50	2433	0	-	-	0.0	-	172	200	-	29631	95%	3%	3%
OLA023	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	78	79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	71	2427	0	-	-	0.0	-	172	199	-	29631	95%	3%	3%
OLA024	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	78	79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	2241	0	-	-	0.0	-	172	193	-	29631	95%	3%	3%
OLA025	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	2161	0	-	-	0.0	-	172	191	-	29631	95%	3%	3%
OLA026	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	73	74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	1804	0	73	74	6.0	3	172	183	183	29631	95%	3%	3%
OLA027	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	1735	0	-	-	0.0	-	172	185	-	29631	95%	3%	3%
OLA028	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	76	78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	1723	0	-	-	0.0	-	172	182	-	29631	95%	3%	3%
OLA029	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	57	1675	0	-	-	0.0	-	172	185	-	29631	95%	3%	3%
OLA030	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	55	1634	0	-	-	0.0	-	172	184	-	29631	95%	3%	3%
OLA031	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	85	87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	1651	0	-	-	0.0	-	172	182	-	29631	95%	3%	3%
OLA032	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	59	1578	0	-	-	0.0	-	172	181	-	29631	95%	3%	3%
OLA033	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-74	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	41	1550	0	-	-	0.0	-	172	182	-	29631	95%	3%	3%
OLA034	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	1557	0	-	-	0.0	-	172	182	-	29631	95%	3%	3%
OLA035	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	1476	0	-	-	0.0	-	172	182	-	29631	95%	3%	3%
OLA036	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-61	-59	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	41	1490	0	-	-	0.0	-	172	182	-	29631	95%	3%	3%
OLA037	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	1428	0	-	-	0.0	-	172	182	-	29631	95%	3%	3%
OLA038	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-50	-48	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	39	1436	0	-	-	0.0	-	172	182	-	29631	95%	3%	3%
OLA039	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	1383	0	-	-	0.0	-	172	181	-	29631	95%	3%	3%
OLA040	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-36	-34	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	39	1395	0	-	-	0.0	-	172	183	-	29631	95%	3%	3%
OLA041	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	1336	0	-	-	0.0	-	172	181	-	29631	95%	3%	3%
OLA042	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	1321	0	-	-	0.0	-	172	182	-	29631	95%	3%	3%
OLA043	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-33	-32	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	41	1365	0	-33	-32	1.8	12	172	183	182	29631	95%	3%	3%
OLA044	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	1290	0	-	-	0.0	-	172	182	-	29631	95%	3%	3%
OLA045	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	1264	0	-	-	0.0	-	172	183	-	29631	95%	3%	3%
OLA046	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-35	-34	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	1315	0	-	-	0.0	-	172	185	-	29631	95%	3%	3%
OLA047	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	35	1212	0	-	-	0.0	-	172	183	-	29631	95%	3%	3%
OLA048	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-52	-52	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	1211	0	-	-	0.0	-	172	184	-	29631	95%	3%	3%
OLA049	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-56	-56	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	50	1187	0	-56	-56	2.0	25	172	184	185	29631	95%	3%	3%
OLA050	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	1157	0	-	-	0.0	-	172	185	-	29631	95%	3%	3%
OLA051	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-66	-66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	35	1131	0	-66	-66	2.0	11	172	184	185	29631	95%	3%	3%
OLA052	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	1102	0	-	-	0.0	-	172	185	-	29631	95%	3%	3%
OLA053	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-72	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	1084	0	-72	-72	2.0	19	172	184	185	29631	95%	3%	3%
OLA054	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-79	-79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	1031	0	-79	-79	2.0	12	172	184	186	29631	95%	3%	3%
OLA055	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	1036	0	-	-	0.0	-	172	185	-	29631	95%	3%	3%
OLA056	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-83	-82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	37	979	0	-83	-82	2.0	13	172	185	186	29631	95%	3%	3%
OLA057	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	981	0	-	-	0.0	-	172	185	-	29631	95%	3%	3%
OLA058	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-83	-82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	35	923	0	-83	-82	2.0	10	172	185	186	29631	95%	3%	3%

OLA059	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	916	0	-	-	0.0	-	172	185	-	29631	95%	3%	3%
OLA060	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	39	870	0	-81	-80	1.8	15	172	186	186	29631	95%	3%	3%
OLA061	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	839	0	-	-	0.0	-	172	184	-	29631	95%	3%	3%
OLA062	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-82	-80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	32	813	0	-82	-80	1.8	7	172	186	185	29631	95%	3%	3%
OLA063	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	16	777	0	-	-	0.0	-	172	185	-	29631	95%	3%	3%
OLA064	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-78	-77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	768	0	-78	-77	1.8	6	172	186	185	29631	95%	3%	3%
OLA065	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	21	699	0	-	-	0.0	-	172	183	-	29631	95%	3%	3%
OLA066	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	643	0	-	-	0.0	-	172	183	-	29631	95%	3%	3%
OLA067	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	595	0	-77	-74	1.8	14	172	181	182	29631	95%	3%	3%
OLA068	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	559	0	-	-	0.0	-	172	180	-	29631	95%	3%	3%
OLA069	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-76	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	60	524	0	-76	-72	1.8	31	172	181	180	29631	95%	3%	3%
OLA070	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-76	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	475	0	-76	-72	1.8	17	172	179	178	29631	95%	3%	3%
OLA071	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	466	0	-	-	0.0	-	172	178	-	29631	95%	3%	3%
OLA072	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	399	0	-	-	0.0	-	172	177	-	29631	95%	3%	3%
OLA073	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	393	0	-75	-69	1.9	10	172	177	177	29631	95%	3%	3%
OLA074	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	317	0	-	-	0.0	-	172	176	-	29631	95%	3%	3%
OLA075	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	70	317	0	-	-	0.0	-	172	175	-	29631	95%	3%	3%
OLA076	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	79	260	0	-	-	0.0	-	172	175	-	29631	95%	3%	3%
OLA077	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	27	75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	24	26	0	30	75	6.0	3	172	174	174	29631	95%	3%	3%
OLA078	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-79	5	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	72	72	0	-79	5	6.0	3	172	172	172	29631	95%	3%	3%
OLA079	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-56	77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	35	35	0	-56	-40	6.0	3	173	175	175	29631	95%	3%	3%
OLA080	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-79	71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	33	33	0	-79	-79	1.7	30	173	174	174	29631	95%	3%	3%
OLA081	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-61	61	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	54	54	0	-	-	0.0	-	173	175	-	29631	95%	3%	3%
OLA082	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	76	86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	234	0	-	-	0.0	-	174	181	-	29631	95%	3%	3%
OLA083	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	78	84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	275	0	78	84	2.0	13	174	182	182	29631	95%	3%	3%
OLA084	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	69	74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	50	329	0	69	74	1.6	18	174	183	182	29631	95%	3%	3%
OLA085	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	58	60	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	39	427	0	58	60	2.6	8	174	182	181	29631	95%	3%	3%
OLA086	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	82	1779	0	-	-	0.0	-	174	193	-	29631	95%	3%	3%
OLA087	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	66	1820	0	-	-	0.0	-	174	194	-	29631	95%	3%	3%
OLA088	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	88	1839	0	-	-	0.0	-	174	194	-	29631	95%	3%	3%
OLA089	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	2069	0	-	-	0.0	-	174	205	-	29631	95%	3%	3%
OLA090	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	83	2086	0	-	-	0.0	-	174	205	-	29631	95%	3%	3%
OLA091	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	55	2463	0	-	-	0.0	-	174	203	-	29631	95%	3%	3%
OLA092	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	2608	0	-	-	0.0	-	174	203	-	29631	95%	3%	3%
OLA093	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	48	2704	0	-	-	0.0	-	174	202	-	29631	95%	3%	3%
OLA094	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	82	83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	2875	0	-	-	0.0	-	174	202	-	29631	95%	3%	3%
OLA095	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	79	80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	78	2945	0	-	-	0.0	-	174	202	-	29631	95%	3%	3%
OLA096	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	87	2964	0	-	-	0.0	-	174	202	-	29631	95%	3%	3%
OLA097	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	68	68	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	37	3006	0	68	68	1.8	5	174	202	201	29631	95%	3%	3%
OLA098	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	68	68	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	3050	0	68	68	1.8	4	174	202	202	29631	95%	3%	3%
OLA099	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	69	69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	3185	0	-	-	0.0	-	174	201	-	29631	95%	3%	3%
OLA100	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	3636	0	-	-	0.0	-	174	202	-	29631	95%	3%	3%
OLA101	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	3706	0	-	-	0.0	-	174	201	-	29631	95%	3%	3%
OLA102	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	67	3909	0	-	-	0.0	-	174	198	-	29631	95%	3%	3%
OLA103	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-78	-77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	59	4078	0	-	-	0.0	-	174	197	-	29631	95%	3%	3%
OLA104	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-69	-68	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	88	4274	0	-	-	0.0	-	174	196	-	29631	95%	3%	3%

Mature State of Development - 2041 S03_SBa Kennedy Road Highway 7 Highway 407

POR	Posted Speed Limit (km/hr)	Road Grade (%)		Road Grade Mode		Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)		Topography		Wood Depth	No of Row of Houses	Density of 1st Row		Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	177	3938	0	-	-	0.0	-	174	209	-	37714	93%	3%	4%
OLA002	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	60	3886	0	-	-	0.0	-	174	207	-	37714	93%	3%	4%
OLA003	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	81	82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	3879	0	81	82	2.0	4	174	207	206	37714	93%	3%	4%
OLA004	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	81	81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	3789	0	-	-	0.0	-	174	207	-	37714	93%	3%	4%
OLA005	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	81	81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	3743	0	81	81	2.2	5	174	208	207	37714	93%	3%	4%
OLA006	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	3699	0	-	-	0.0	-	174	207	-	37714	93%	3%	4%
OLA007	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	82	82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	3713	0	82	82	2.1	5	174	208	207	37714	93%	3%	4%
OLA008	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	3629	0	-	-	0.0	-	174	207	-	37714	93%	3%	4%
OLA009	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	82	82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	20	3636	0	82	82	2.1	5	174	207	207	37714	93%	3%	4%
OLA010	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	3528	0	-	-	0.0	-	174	206	-	37714	93%	3%	4%
OLA011	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	80	81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	60	3550	0	-	-	0.0	-	174	206	-	37714	93%	3%	4%
OLA012	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	3440	0	-	-	0.0	-	174	204	-	37714	93%	3%	4%
OLA013	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	3381	0	-	-	0.0	-	174	204	-	37714	93%	3%	4%
OLA014	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	81	81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	18	3379	0	81	81	2.0	4	174	203	203	37714	93%	3%	4%
OLA015	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	81	81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	3302	0	81	81	2.0	6	174	202	202	37714	93%	3%	4%
OLA016	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	81	81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	62	3264	0	-	-	0.0	-	174	200	-	37714	93%	3%	4%
OLA017	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	42	3008	0	-	-	0.0	-	174	196	-	37714	93%	3%	4%
OLA018	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	2972	0	-	-	0.0	-	174	196	-	37714	93%	3%	4%
OLA019	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	68	2929	0	-	-	0.0	-	174	197	-	37714	93%	3%	4%
OLA020	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	2839	0	-	-	0.0	-	174	197	-	37714	93%	3%	4%
OLA021	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	76	2789	0	-	-	0.0	-	174	200	-	37714	93%	3%	4%
OLA022	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	50	2647	0	-	-	0.0	-	174	200	-	37714	93%	3%	4%
OLA023	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	79	80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	71	2640	0	-	-	0.0	-	174	199	-	37714	93%	3%	4%
OLA024	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	79	80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	2453	0	-	-	0.0	-	174	193	-	37714	93%	3%	4%
OLA025	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	2375	0	-	-	0.0	-	174	191	-	37714	93%	3%	4%
OLA026	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	74	76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	2013	0	74	76	6.0	3	174	183	183	37714	93%	3%	4%
OLA027	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	1946	0	-	-	0.0	-	174	185	-	37714	93%	3%	4%
OLA028	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	78	80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	1933	0	-	-	0.0	-	174	182	-	37714	93%	3%	4%
OLA029	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	57	1887	0	-	-	0.0	-	174	185	-	37714	93%	3%	4%
OLA030	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	55	1845	0	-	-	0.0	-	174	184	-	37714	93%	3%	4%
OLA031	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	87	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	1860	0	-	-	0.0	-	174	182	-	37714	93%	3%	4%
OLA032	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	59	1786	0	-	-	0.0	-	174	181	-	37714	93%	3%	4%
OLA033	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-72	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	41	1761	0	-	-	0.0	-	174	182	-	37714	93%	3%	4%
OLA034	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	1766	0	-	-	0.0	-	174	182	-	37714	93%	3%	4%
OLA035	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	1685	0	-	-	0.0	-	174	182	-	37714	93%	3%	4%
OLA036	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-59	-58	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	41	1702	0	-	-	0.0	-	174	182	-	37714	93%	3%	4%
OLA037	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	1638	0	-	-	0.0	-	174	182	-	37714	93%	3%	4%
OLA038	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-48	-47	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	39	1649	0	-	-	0.0	-	174	182	-	37714	93%	3%	4%
OLA039	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	1595	0	-	-	0.0	-	174	181	-	37714	93%	3%	4%
OLA040	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-34	-33	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	39	1609	0	-	-	0.0	-	174	183	-	37714	93%	3%	4%
OLA041	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	1549	0	-	-	0.0	-	174	181	-	37714	93%	3%	4%
OLA042	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	1535	0	-	-	0.0	-	174	182	-	37714	93%	3%	4%
OLA043	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-32	-32	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	41	1580	0	-32	-32	1.8	12	174	183	182	37714	93%	3%	4%
OLA044	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	1505	0	-	-	0.0	-	174	182	-	37714	93%	3%	4%
OLA045	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	1479	0	-	-	0.0	-	174	183	-	37714	93%	3%	4%
OLA046	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-34	-34	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	1531	0	-	-	0.0	-	174	185	-	37714	93%	3%	4%
OLA047	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	35	1429	0	-	-	0.0	-	174	183	-	37714	93%	3%	4%
OLA048	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-53	-52	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	1428	0	-53	-52	2.0	10	174	184	184	37714	93%	3%	4%
OLA049	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-57	-56	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	50	1404	0	-57	-56	2.0	25	174	184	185	37714	93%	3%	4%
OLA050	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	1373	0	-	-	0.0	-	174	185	-	37714	93%	3%	4%
OLA051	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-67	-66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	35	1347	0	-67	-66	2.0	11	174	184	185	37714	93%	3%	4%
OLA052	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	1319	0	-	-	0.0	-	174	185	-	37714	93%	3%	4%
OLA053	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-74	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	1301	0	-74	-72	2.0	19	174	184	185	37714	93%	3%	4%
OLA054	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	1248	0	-81	-79	2.0	12	174	184	186	37714	93%	3%	4%
OLA055	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	1253	0	-	-	0.0	-	174	185	-	37714	93%	3%	4%
OLA056	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-84	-83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	37	1195	0	-84	-83	2.0	13	174	185	186	37714	93%	3%	4%
OLA057	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	1198	0	-	-	0.0	-	174	185	-	37714	93%	3%	4%
OLA058	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-84	-83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	35	1140	0	-84	-83	2.0	10	174	185	186	37714	93%	3%	4%

OLA059	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	1133	0	-	-	0.0	-	174	185	-	37714	93%	3%	4%
OLA060	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-83	-81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	39	1086	0	-83	-81	1.8	15	174	186	186	37714	93%	3%	4%
OLA061	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	1056	0	-	-	0.0	-	174	184	-	37714	93%	3%	4%
OLA062	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-83	-82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	32	1029	0	-83	-82	1.8	7	174	186	185	37714	93%	3%	4%
OLA063	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	16	993	0	-	-	0.0	-	174	185	-	37714	93%	3%	4%
OLA064	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	983	0	-81	-78	1.8	6	174	186	185	37714	93%	3%	4%
OLA065	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	21	915	0	-	-	0.0	-	174	183	-	37714	93%	3%	4%
OLA066	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	860	0	-	-	0.0	-	174	183	-	37714	93%	3%	4%
OLA067	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	809	0	-81	-77	1.8	14	174	181	182	37714	93%	3%	4%
OLA068	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	775	0	-	-	0.0	-	174	180	-	37714	93%	3%	4%
OLA069	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-80	-76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	60	736	0	-80	-76	1.8	31	174	181	180	37714	93%	3%	4%
OLA070	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-80	-76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	687	0	-80	-76	1.8	17	174	179	178	37714	93%	3%	4%
OLA071	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	683	0	-	-	0.0	-	174	178	-	37714	93%	3%	4%
OLA072	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	615	0	-	-	0.0	-	174	177	-	37714	93%	3%	4%
OLA073	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-80	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	603	0	-80	-75	1.9	10	174	177	177	37714	93%	3%	4%
OLA074	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	533	0	-	-	0.0	-	174	176	-	37714	93%	3%	4%
OLA075	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	-81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	70	519	0	-	-	0.0	-	174	175	-	37714	93%	3%	4%
OLA076	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	79	455	0	-	-	0.0	-	174	175	-	37714	93%	3%	4%
OLA077	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	75	75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	24	233	0	75	75	6.0	3	174	174	174	37714	93%	3%	4%
OLA078	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	72	212	0	-90	-79	6.0	3	174	172	172	37714	93%	3%	4%
OLA079	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	77	84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	35	159	0	-	-	0.0	-	174	175	-	37714	93%	3%	4%
OLA080	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	-79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	33	141	0	-89	-79	1.7	30	174	174	174	37714	93%	3%	4%
OLA081	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	61	80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	54	122	0	-	-	0.0	-	174	175	-	37714	93%	3%	4%
OLA082	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-50	76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	53	0	-50	45	1.8	15	180	181	181	37714	93%	3%	4%
OLA083	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-36	78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	43	0	-36	78	2.0	13	181	182	182	37714	93%	3%	4%
OLA084	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	10	69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	50	51	0	10	69	1.6	18	181	183	182	37714	93%	3%	4%
OLA085	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	58	59	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	39	123	0	58	59	2.6	8	181	182	181	37714	93%	3%	4%
OLA086	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	82	1492	0	-	-	0.0	-	181	193	-	37714	93%	3%	4%
OLA087	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	66	1533	0	-	-	0.0	-	181	194	-	37714	93%	3%	4%
OLA088	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	88	1551	0	-	-	0.0	-	181	194	-	37714	93%	3%	4%
OLA089	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	1779	0	-	-	0.0	-	181	205	-	37714	93%	3%	4%
OLA090	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	83	1795	0	-	-	0.0	-	181	205	-	37714	93%	3%	4%
OLA091	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	55	2170	0	-	-	0.0	-	181	203	-	37714	93%	3%	4%
OLA092	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	2314	0	-	-	0.0	-	181	203	-	37714	93%	3%	4%
OLA093	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	48	2410	0	-	-	0.0	-	181	202	-	37714	93%	3%	4%
OLA094	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	83	84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	2580	0	-	-	0.0	-	181	202	-	37714	93%	3%	4%
OLA095	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	80	81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	78	2650	0	-	-	0.0	-	181	202	-	37714	93%	3%	4%
OLA096	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	87	2674	0	-	-	0.0	-	181	202	-	37714	93%	3%	4%
OLA097	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	68	70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	37	2713	0	68	70	1.8	5	181	202	201	37714	93%	3%	4%
OLA098	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	68	70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	2756	0	68	70	1.8	4	181	202	202	37714	93%	3%	4%
OLA099	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	69	71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	2893	0	-	-	0.0	-	181	201	-	37714	93%	3%	4%
OLA100	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	3350	0	-	-	0.0	-	181	202	-	37714	93%	3%	4%
OLA101	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	3422	0	-	-	0.0	-	181	201	-	37714	93%	3%	4%
OLA102	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	67	3627	0	-	-	0.0	-	181	198	-	37714	93%	3%	4%
OLA103	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	59	3795	0	-	-	0.0	-	181	197	-	37714	93%	3%	4%
OLA104	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-68	-66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	88	3990	0	-	-	0.0	-	181	196	-	37714	93%	3%	4%

Mature State of Development - 2041 S03_SBb Kennedy Road Highway 7 Highway 407

POR	Posted Speed Limit (km/hr)	Road Grade (%)		Road Grade Mode		Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)		Topography		Wood Depth	No of Row of Houses	Density of 1st Row		Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	177	4243	0	-	-	0.0	-	181	209	-	37714	93%	3%	4%
OLA002	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	60	4191	0	-	-	0.0	-	181	207	-	37714	93%	3%	4%
OLA003	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	82	82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	4183	0	82	82	2.0	4	181	207	206	37714	93%	3%	4%
OLA004	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	81	82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	4093	0	-	-	0.0	-	181	207	-	37714	93%	3%	4%
OLA005	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	81	82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	4048	0	81	82	2.2	5	181	208	207	37714	93%	3%	4%
OLA006	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	4004	0	-	-	0.0	-	181	207	-	37714	93%	3%	4%
OLA007	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	82	83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	4017	0	82	83	2.1	5	181	208	207	37714	93%	3%	4%
OLA008	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	3933	0	-	-	0.0	-	181	207	-	37714	93%	3%	4%
OLA009	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	82	83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	20	3941	0	82	83	2.1	5	181	207	207	37714	93%	3%	4%
OLA010	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	3832	0	-	-	0.0	-	181	206	-	37714	93%	3%	4%
OLA011	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	81	82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	60	3854	0	-	-	0.0	-	181	206	-	37714	93%	3%	4%
OLA012	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	3745	0	-	-	0.0	-	181	204	-	37714	93%	3%	4%
OLA013	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	3685	0	-	-	0.0	-	181	204	-	37714	93%	3%	4%
OLA014	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	81	82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	18	3683	0	81	82	2.0	4	181	203	203	37714	93%	3%	4%
OLA015	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	81	82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	3606	0	81	82	2.0	6	181	202	202	37714	93%	3%	4%
OLA016	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	81	82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	62	3568	0	-	-	0.0	-	181	200	-	37714	93%	3%	4%
OLA017	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	42	3312	0	-	-	0.0	-	181	196	-	37714	93%	3%	4%
OLA018	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	3276	0	-	-	0.0	-	181	196	-	37714	93%	3%	4%
OLA019	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	68	3233	0	-	-	0.0	-	181	197	-	37714	93%	3%	4%
OLA020	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	3143	0	-	-	0.0	-	181	197	-	37714	93%	3%	4%
OLA021	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	76	3093	0	-	-	0.0	-	181	200	-	37714	93%	3%	4%
OLA022	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	50	2951	0	-	-	0.0	-	181	200	-	37714	93%	3%	4%
OLA023	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	80	81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	71	2943	0	-	-	0.0	-	181	199	-	37714	93%	3%	4%
OLA024	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	80	81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	2756	0	-	-	0.0	-	181	193	-	37714	93%	3%	4%
OLA025	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	2678	0	-	-	0.0	-	181	191	-	37714	93%	3%	4%
OLA026	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	76	78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	2313	0	76	78	6.0	3	181	183	183	37714	93%	3%	4%
OLA027	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	2248	0	-	-	0.0	-	181	185	-	37714	93%	3%	4%
OLA028	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	80	82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	2233	0	-	-	0.0	-	181	182	-	37714	93%	3%	4%
OLA029	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	57	2189	0	-	-	0.0	-	181	185	-	37714	93%	3%	4%
OLA030	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	55	2147	0	-	-	0.0	-	181	184	-	37714	93%	3%	4%
OLA031	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	2159	0	-	-	0.0	-	181	182	-	37714	93%	3%	4%
OLA032	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	59	2085	0	-	-	0.0	-	181	181	-	37714	93%	3%	4%
OLA033	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-71	-69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	41	2063	0	-	-	0.0	-	181	182	-	37714	93%	3%	4%
OLA034	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	2066	0	-	-	0.0	-	181	182	-	37714	93%	3%	4%
OLA035	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	1986	0	-	-	0.0	-	181	182	-	37714	93%	3%	4%
OLA036	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-58	-56	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	41	2005	0	-	-	0.0	-	181	182	-	37714	93%	3%	4%
OLA037	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	1940	0	-	-	0.0	-	181	182	-	37714	93%	3%	4%
OLA038	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-47	-45	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	39	1952	0	-	-	0.0	-	181	182	-	37714	93%	3%	4%
OLA039	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	1897	0	-	-	0.0	-	181	181	-	37714	93%	3%	4%
OLA040	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-33	-31	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	39	1913	0	-	-	0.0	-	181	183	-	37714	93%	3%	4%
OLA041	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	1852	0	-	-	0.0	-	181	181	-	37714	93%	3%	4%
OLA042	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	1839	0	-	-	0.0	-	181	182	-	37714	93%	3%	4%
OLA043	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-32	-30	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	41	1884	0	-32	-30	1.8	12	181	183	182	37714	93%	3%	4%
OLA044	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	1809	0	-	-	0.0	-	181	182	-	37714	93%	3%	4%
OLA045	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	1784	0	-	-	0.0	-	181	183	-	37714	93%	3%	4%
OLA046	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-34	-32	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	1836	0	-	-	0.0	-	181	185	-	37714	93%	3%	4%
OLA047	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	35	1733	0	-	-	0.0	-	181	183	-	37714	93%	3%	4%
OLA048	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-53	-51	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	1732	0	-53	-51	2.0	10	181	184	184	37714	93%	3%	4%
OLA049	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-57	-56	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	50	1708	0	-57	-56	2.0	25	181	184	185	37714	93%	3%	4%
OLA050	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	1678	0	-	-	0.0	-	181	185	-	37714	93%	3%	4%
OLA051	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-67	-65	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	35	1651	0	-67	-65	2.0	11	181	184	185	37714	93%	3%	4%
OLA052	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	1623	0	-	-	0.0	-	181	185	-	37714	93%	3%	4%
OLA053	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-74	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	1604	0	-74	-72	2.0	19	181	184	185	37714	93%	3%	4%
OLA054	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	1551	0	-81	-79	2.0	12	181	184	186	37714	93%	3%	4%
OLA055	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	1557	0	-	-	0.0	-	181	185	-	37714	93%	3%	4%
OLA056	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-84	-83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	37	1498	0	-84	-83	2.0	13	181	185	186	37714	93%	3%	4%
OLA057	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	1502	0	-	-	0.0	-	181	185	-	37714	93%	3%	4%
OLA058	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-84	-83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	35	1442	0	-84	-83	2.0	10	181	185	186	37714	93%	3%	4%

OLA059	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	1437	0	-	-	0.0	-	181	185	-	37714	93%	3%	4%
OLA060	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-83	-81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	39	1388	0	-83	-81	1.8	15	181	186	186	37714	93%	3%	4%
OLA061	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	1360	0	-	-	0.0	-	181	184	-	37714	93%	3%	4%
OLA062	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-83	-82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	32	1331	0	-83	-82	1.8	7	181	186	185	37714	93%	3%	4%
OLA063	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	16	1297	0	-	-	0.0	-	181	185	-	37714	93%	3%	4%
OLA064	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	1284	0	-81	-79	1.8	6	181	186	185	37714	93%	3%	4%
OLA065	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	21	1219	0	-	-	0.0	-	181	183	-	37714	93%	3%	4%
OLA066	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	1164	0	-	-	0.0	-	181	183	-	37714	93%	3%	4%
OLA067	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	1108	0	-81	-79	1.8	14	181	181	182	37714	93%	3%	4%
OLA068	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	1079	0	-	-	0.0	-	181	180	-	37714	93%	3%	4%
OLA069	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-80	-78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	60	1034	0	-80	-78	1.8	31	181	181	180	37714	93%	3%	4%
OLA070	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-80	-78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	985	0	-80	-78	1.8	17	181	179	178	37714	93%	3%	4%
OLA071	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	985	0	-	-	0.0	-	181	178	-	37714	93%	3%	4%
OLA072	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	917	0	-	-	0.0	-	181	177	-	37714	93%	3%	4%
OLA073	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-80	-78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	900	0	-80	-78	1.9	10	181	177	177	37714	93%	3%	4%
OLA074	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	835	0	-	-	0.0	-	181	176	-	37714	93%	3%	4%
OLA075	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	-87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	70	811	0	-	-	0.0	-	181	175	-	37714	93%	3%	4%
OLA076	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	79	745	0	-	-	0.0	-	181	175	-	37714	93%	3%	4%
OLA077	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	75	81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	24	538	0	75	81	6.0	3	181	174	174	37714	93%	3%	4%
OLA078	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	72	507	0	-90	-89	6.0	3	181	172	172	37714	93%	3%	4%
OLA079	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	84	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	35	461	0	-	-	0.0	-	181	175	-	37714	93%	3%	4%
OLA080	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	-85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	33	442	0	-89	-85	1.7	30	181	174	174	37714	93%	3%	4%
OLA081	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	80	88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	54	418	0	-	-	0.0	-	181	175	-	37714	93%	3%	4%
OLA082	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-59	-50	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	102	0	-59	-50	1.8	15	181	181	181	37714	93%	3%	4%
OLA083	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-60	-36	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	61	0	-60	-36	2.0	13	181	182	182	37714	93%	3%	4%
OLA084	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-62	10	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	50	50	0	-62	10	1.6	18	181	183	182	37714	93%	3%	4%
OLA085	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-54	59	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	39	39	0	-54	59	2.6	8	180	182	181	37714	93%	3%	4%
OLA086	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	82	1333	0	-	-	0.0	-	178	193	-	37714	93%	3%	4%
OLA087	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	66	1374	0	-	-	0.0	-	178	194	-	37714	93%	3%	4%
OLA088	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	88	1391	0	-	-	0.0	-	178	194	-	37714	93%	3%	4%
OLA089	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	1620	0	-	-	0.0	-	178	205	-	37714	93%	3%	4%
OLA090	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	83	1636	0	-	-	0.0	-	178	205	-	37714	93%	3%	4%
OLA091	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	55	2011	0	-	-	0.0	-	178	203	-	37714	93%	3%	4%
OLA092	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	2156	0	-	-	0.0	-	178	203	-	37714	93%	3%	4%
OLA093	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	48	2252	0	-	-	0.0	-	178	202	-	37714	93%	3%	4%
OLA094	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	84	84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	2422	0	-	-	0.0	-	178	202	-	37714	93%	3%	4%
OLA095	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	81	81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	78	2492	0	-	-	0.0	-	178	202	-	37714	93%	3%	4%
OLA096	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	87	2515	0	-	-	0.0	-	178	202	-	37714	93%	3%	4%
OLA097	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	70	70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	37	2555	0	70	70	1.8	5	178	202	201	37714	93%	3%	4%
OLA098	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	69	70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	2598	0	69	70	1.8	4	178	202	202	37714	93%	3%	4%
OLA099	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	71	71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	2734	0	-	-	0.0	-	178	201	-	37714	93%	3%	4%
OLA100	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	3191	0	-	-	0.0	-	178	202	-	37714	93%	3%	4%
OLA101	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	3262	0	-	-	0.0	-	178	201	-	37714	93%	3%	4%
OLA102	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	67	3467	0	-	-	0.0	-	178	198	-	37714	93%	3%	4%
OLA103	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	59	3636	0	-	-	0.0	-	178	197	-	37714	93%	3%	4%
OLA104	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-67	-66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	88	3830	0	-	-	0.0	-	178	196	-	37714	93%	3%	4%

Mature State of Development - 2041 S03_SBc Kennedy Road Highway 7 Highway 407

POR	Posted Speed Limit (km/hr)	Road Grade (%)		Road Grade Mode		Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)		Topography		Wood Depth	No of Row of Houses	Density of 1st Row		Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	177	4390	0	-90	-88	2.0	7	178	209	209	37714	93%	3%	4%
OLA002	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	60	4336	0	-	-	0.0	-	178	207	-	37714	93%	3%	4%
OLA003	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	82	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	4327	0	82	90	2.0	4	178	207	206	37714	93%	3%	4%
OLA004	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	82	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	4237	0	-	-	0.0	-	178	207	-	37714	93%	3%	4%
OLA005	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	82	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	4192	0	82	89	2.2	5	178	208	207	37714	93%	3%	4%
OLA006	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	4149	0	-90	-89	2.1	6	178	207	207	37714	93%	3%	4%
OLA007	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	83	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	4161	0	83	90	2.1	5	178	208	207	37714	93%	3%	4%
OLA008	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	4078	0	-90	-90	2.0	12	178	207	207	37714	93%	3%	4%
OLA009	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	83	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	20	4085	0	83	90	2.1	5	178	207	207	37714	93%	3%	4%
OLA010	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	3977	0	-90	-89	1.9	8	178	206	206	37714	93%	3%	4%
OLA011	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	82	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	60	3997	0	-	-	0.0	-	178	206	-	37714	93%	3%	4%
OLA012	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	3889	0	-90	-89	2.4	7	178	204	204	37714	93%	3%	4%
OLA013	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	3830	0	-	-	0.0	-	178	204	-	37714	93%	3%	4%
OLA014	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	82	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	18	3826	0	82	90	2.0	4	178	203	203	37714	93%	3%	4%
OLA015	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	82	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	3749	0	82	90	2.0	6	178	202	202	37714	93%	3%	4%
OLA016	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	82	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	62	3710	0	-	-	0.0	-	178	200	-	37714	93%	3%	4%
OLA017	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	42	3455	0	-90	-88	1.9	7	178	196	196	37714	93%	3%	4%
OLA018	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	3420	0	-90	-88	1.9	2	178	196	196	37714	93%	3%	4%
OLA019	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	68	3377	0	-	-	0.0	-	178	197	-	37714	93%	3%	4%
OLA020	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	3286	0	-90	-88	2.0	8	178	197	197	37714	93%	3%	4%
OLA021	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	76	3237	0	-	-	0.0	-	178	200	-	37714	93%	3%	4%
OLA022	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	50	3094	0	-90	-83	9.0	3	178	200	200	37714	93%	3%	4%
OLA023	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	81	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	71	3082	0	-	-	0.0	-	178	199	-	37714	93%	3%	4%
OLA024	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	81	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	2896	0	-	-	0.0	-	178	193	-	37714	93%	3%	4%
OLA025	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	2820	0	-90	-86	1.8	5	178	191	192	37714	93%	3%	4%
OLA026	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	78	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	2449	0	78	90	6.0	3	178	183	183	37714	93%	3%	4%
OLA027	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	2388	0	-89	-88	2.5	26	178	185	184	37714	93%	3%	4%
OLA028	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	82	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	2369	0	-	-	0.0	-	178	182	-	37714	93%	3%	4%
OLA029	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	57	2328	0	-	-	0.0	-	178	185	-	37714	93%	3%	4%
OLA030	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	55	2286	0	-	-	0.0	-	178	184	-	37714	93%	3%	4%
OLA031	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	2295	0	-	-	0.0	-	178	182	-	37714	93%	3%	4%
OLA032	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	59	2220	0	-	-	0.0	-	178	181	-	37714	93%	3%	4%
OLA033	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-69	-56	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	41	2202	0	-	-	0.0	-	178	182	-	37714	93%	3%	4%
OLA034	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	2202	0	-	-	0.0	-	178	182	-	37714	93%	3%	4%
OLA035	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	2123	0	-	-	0.0	-	178	182	-	37714	93%	3%	4%
OLA036	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-56	-43	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	41	2145	0	-	-	0.0	-	178	182	-	37714	93%	3%	4%
OLA037	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	2079	0	-	-	0.0	-	178	182	-	37714	93%	3%	4%
OLA038	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-45	-32	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	39	2093	0	-	-	0.0	-	178	182	-	37714	93%	3%	4%
OLA039	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	2037	0	-	-	0.0	-	178	181	-	37714	93%	3%	4%
OLA040	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-31	-19	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	39	2056	0	-	-	0.0	-	178	183	-	37714	93%	3%	4%
OLA041	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	1994	0	-	-	0.0	-	178	181	-	37714	93%	3%	4%
OLA042	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	1982	0	-	-	0.0	-	178	182	-	37714	93%	3%	4%
OLA043	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-30	-17	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	41	2029	0	-30	-17	1.8	12	178	183	182	37714	93%	3%	4%
OLA044	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	1954	0	-	-	0.0	-	178	182	-	37714	93%	3%	4%
OLA045	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	1930	0	-	-	0.0	-	178	183	-	37714	93%	3%	4%
OLA046	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-32	-20	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	1983	0	-	-	0.0	-	178	185	-	37714	93%	3%	4%
OLA047	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	35	1881	0	-	-	0.0	-	178	183	-	37714	93%	3%	4%
OLA048	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-51	-40	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	1882	0	-51	-40	2.0	10	178	184	184	37714	93%	3%	4%
OLA049	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-56	-44	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	50	1859	0	-56	-44	2.0	25	178	184	185	37714	93%	3%	4%
OLA050	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	1827	0	-	-	0.0	-	178	185	-	37714	93%	3%	4%
OLA051	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-65	-54	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	35	1803	0	-65	-54	2.0	11	178	184	185	37714	93%	3%	4%
OLA052	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	1773	0	-	-	0.0	-	178	185	-	37714	93%	3%	4%
OLA053	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-72	-61	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	1756	0	-72	-61	2.0	19	178	184	185	37714	93%	3%	4%
OLA054	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-79	-68	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	1704	0	-79	-68	2.0	12	178	184	186	37714	93%	3%	4%
OLA055	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	1708	0	-	-	0.0	-	178	185	-	37714	93%	3%	4%
OLA056	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-83	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	37	1651	0	-83	-71	2.0	13	178	185	186	37714	93%	3%	4%
OLA057	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	1653	0	-	-	0.0	-	178	185	-	37714	93%	3%	4%
OLA058	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-83	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	35	1595	0	-83	-71	2.0	10	178	185	186	37714	93%	3%	4%

OLA059	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	1588	0	-	-	0.0	-	178	185	-	37714	93%	3%	4%
OLA060	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	39	1542	0	-81	-70	1.8	15	178	186	186	37714	93%	3%	4%
OLA061	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	1511	0	-	-	0.0	-	178	184	-	37714	93%	3%	4%
OLA062	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-82	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	32	1485	0	-82	-70	1.8	7	178	186	185	37714	93%	3%	4%
OLA063	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	16	1449	0	-	-	0.0	-	178	185	-	37714	93%	3%	4%
OLA064	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-79	-67	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	1438	0	-79	-67	1.8	6	178	186	185	37714	93%	3%	4%
OLA065	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	21	1371	0	-	-	0.0	-	178	183	-	37714	93%	3%	4%
OLA066	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	1316	0	-	-	0.0	-	178	183	-	37714	93%	3%	4%
OLA067	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-79	-67	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	1263	0	-79	-67	1.8	14	178	181	182	37714	93%	3%	4%
OLA068	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	1231	0	-	-	0.0	-	178	180	-	37714	93%	3%	4%
OLA069	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-78	-66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	60	1190	0	-78	-66	1.8	31	178	181	180	37714	93%	3%	4%
OLA070	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-78	-66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	1141	0	-78	-66	1.8	17	178	179	178	37714	93%	3%	4%
OLA071	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	1138	0	-	-	0.0	-	178	178	-	37714	93%	3%	4%
OLA072	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	1071	0	-	-	0.0	-	178	177	-	37714	93%	3%	4%
OLA073	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-78	-66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	1056	0	-78	-66	1.9	10	178	177	177	37714	93%	3%	4%
OLA074	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	989	0	-	-	0.0	-	178	176	-	37714	93%	3%	4%
OLA075	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	70	968	0	-	-	0.0	-	178	175	-	37714	93%	3%	4%
OLA076	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	79	903	0	-	-	0.0	-	178	175	-	37714	93%	3%	4%
OLA077	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	81	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	24	687	0	81	90	6.0	3	178	174	174	37714	93%	3%	4%
OLA078	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	-74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	72	663	0	-89	-74	6.0	3	178	172	172	37714	93%	3%	4%
OLA079	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	35	608	0	-	-	0.0	-	178	175	-	37714	93%	3%	4%
OLA080	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-85	-67	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	33	596	0	-85	-79	1.7	30	178	174	174	37714	93%	3%	4%
OLA081	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	88	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	54	561	0	-	-	0.0	-	178	175	-	37714	93%	3%	4%
OLA082	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-59	-52	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	260	0	-59	-52	1.8	15	178	181	181	37714	93%	3%	4%
OLA083	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-60	-55	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	214	0	-60	-55	2.0	13	178	182	182	37714	93%	3%	4%
OLA084	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-64	-62	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	50	167	0	-64	-62	1.6	18	178	183	182	37714	93%	3%	4%
OLA085	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-82	-54	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	39	65	0	-82	-54	2.6	8	178	182	181	37714	93%	3%	4%
OLA086	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	71	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	82	476	0	71	90	2.0	19	189	193	194	37714	93%	3%	4%
OLA087	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	74	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	66	508	0	74	90	2.0	55	189	194	194	37714	93%	3%	4%
OLA088	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	73	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	88	539	0	73	90	6.0	21	189	194	194	37714	93%	3%	4%
OLA089	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	80	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	751	0	-	-	0.0	-	189	205	-	37714	93%	3%	4%
OLA090	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	78	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	83	783	0	-	-	0.0	-	189	205	-	37714	93%	3%	4%
OLA091	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	83	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	55	1149	0	-	-	0.0	-	189	203	-	37714	93%	3%	4%
OLA092	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	84	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	1293	0	-	-	0.0	-	189	203	-	37714	93%	3%	4%
OLA093	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	83	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	48	1391	0	83	90	1.7	17	189	202	201	37714	93%	3%	4%
OLA094	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	69	84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	1562	0	-	-	0.0	-	189	202	-	37714	93%	3%	4%
OLA095	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	67	81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	78	1632	0	-	-	0.0	-	189	202	-	37714	93%	3%	4%
OLA096	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	87	1616	0	-	-	0.0	-	189	202	-	37714	93%	3%	4%
OLA097	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	57	70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	37	1679	0	57	70	1.8	5	189	202	201	37714	93%	3%	4%
OLA098	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	57	69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	1724	0	57	69	1.8	4	189	202	202	37714	93%	3%	4%
OLA099	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	60	71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	1844	0	-	-	0.0	-	189	201	-	37714	93%	3%	4%
OLA100	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	2261	0	-	-	0.0	-	189	202	-	37714	93%	3%	4%
OLA101	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	2329	0	-	-	0.0	-	189	201	-	37714	93%	3%	4%
OLA102	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	67	2525	0	-	-	0.0	-	189	198	-	37714	93%	3%	4%
OLA103	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	59	2695	0	-	-	0.0	-	189	197	-	37714	93%	3%	4%
OLA104	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-72	-67	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	88	2892	0	-	-	0.0	-	189	196	-	37714	93%	3%	4%

Mature State of Development - 2041 S04_SB Kennedy Road Highway 407 14th Avenue

POR	Posted Speed Limit (km/hr)	Road Grade (%)		Road Grade Mode		Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)		Topography		Wood Depth	No of Row of Houses	Density of 1st Row		Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	-88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	177	5216	0	-89	-88	2.0	7	189	209	209	31503	93%	4%	3%
OLA002	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	60	5148	0	-	-	0.0	-	189	207	-	31503	93%	4%	3%
OLA003	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	5128	0	89	90	2.0	4	189	207	206	31503	93%	4%	3%
OLA004	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	5034	0	-	-	0.0	-	189	207	-	31503	93%	4%	3%
OLA005	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	88	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	4992	0	88	89	2.2	5	189	208	207	31503	93%	4%	3%
OLA006	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	4958	0	-90	-89	2.1	6	189	207	207	31503	93%	4%	3%
OLA007	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	4960	0	89	90	2.1	5	189	208	207	31503	93%	4%	3%
OLA008	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	4886	0	-90	-90	2.0	12	189	207	207	31503	93%	4%	3%
OLA009	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	20	4885	0	90	90	2.1	5	189	207	207	31503	93%	4%	3%
OLA010	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	4785	0	-90	-89	1.9	8	189	206	206	31503	93%	4%	3%
OLA011	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	60	4791	0	-	-	0.0	-	189	206	-	31503	93%	4%	3%
OLA012	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	4697	0	-90	-89	2.4	7	189	204	204	31503	93%	4%	3%
OLA013	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	4638	0	-	-	0.0	-	189	204	-	31503	93%	4%	3%
OLA014	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	18	4624	0	89	90	2.0	4	189	203	203	31503	93%	4%	3%
OLA015	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	4545	0	90	90	2.0	6	189	202	202	31503	93%	4%	3%
OLA016	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	62	4501	0	-	-	0.0	-	189	200	-	31503	93%	4%	3%
OLA017	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	-88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	42	4259	0	-89	-88	1.9	7	189	196	196	31503	93%	4%	3%
OLA018	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	4224	0	-90	-88	1.9	2	189	196	196	31503	93%	4%	3%
OLA019	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	-88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	68	4184	0	-	-	0.0	-	189	197	-	31503	93%	4%	3%
OLA020	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	4089	0	-90	-88	2.0	8	189	197	197	31503	93%	4%	3%
OLA021	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	-87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	76	4045	0	-	-	0.0	-	189	200	-	31503	93%	4%	3%
OLA022	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-84	-83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	50	3898	0	-84	-83	9.0	3	189	200	200	31503	93%	4%	3%
OLA023	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	71	3865	0	-	-	0.0	-	189	199	-	31503	93%	4%	3%
OLA024	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	3683	0	-	-	0.0	-	189	193	-	31503	93%	4%	3%
OLA025	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	3619	0	-87	-86	1.8	5	189	191	192	31503	93%	4%	3%
OLA026	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	3223	0	89	90	6.0	3	189	183	183	31503	93%	4%	3%
OLA027	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	3182	0	-89	-88	2.5	26	189	185	184	31503	93%	4%	3%
OLA028	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	3146	0	-	-	0.0	-	189	182	-	31503	93%	4%	3%
OLA029	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	57	3124	0	-	-	0.0	-	189	185	-	31503	93%	4%	3%
OLA030	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	55	3082	0	-	-	0.0	-	189	184	-	31503	93%	4%	3%
OLA031	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	3069	0	-	-	0.0	-	189	182	-	31503	93%	4%	3%
OLA032	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	59	2993	0	-	-	0.0	-	189	181	-	31503	93%	4%	3%
OLA033	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-58	-56	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	41	3000	0	-	-	0.0	-	189	182	-	31503	93%	4%	3%
OLA034	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	2984	0	-	-	0.0	-	189	182	-	31503	93%	4%	3%
OLA035	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	2914	0	-	-	0.0	-	189	182	-	31503	93%	4%	3%
OLA036	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-45	-43	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	41	2951	0	-	-	0.0	-	189	182	-	31503	93%	4%	3%
OLA037	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	2878	0	-	-	0.0	-	189	182	-	31503	93%	4%	3%
OLA038	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-35	-32	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	39	2909	0	-	-	0.0	-	189	182	-	31503	93%	4%	3%
OLA039	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	2845	0	-	-	0.0	-	189	181	-	31503	93%	4%	3%
OLA040	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-21	-19	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	39	2883	0	-	-	0.0	-	189	183	-	31503	93%	4%	3%
OLA041	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	2815	0	-	-	0.0	-	189	181	-	31503	93%	4%	3%
OLA042	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	2809	0	-	-	0.0	-	189	182	-	31503	93%	4%	3%
OLA043	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-20	-17	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	41	2867	0	-20	-17	1.8	12	189	183	182	31503	93%	4%	3%
OLA044	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	2794	0	-	-	0.0	-	189	182	-	31503	93%	4%	3%
OLA045	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	2778	0	-	-	0.0	-	189	183	-	31503	93%	4%	3%
OLA046	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-24	-20	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	2840	0	-	-	0.0	-	189	185	-	31503	93%	4%	3%
OLA047	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	35	2741	0	-	-	0.0	-	189	183	-	31503	93%	4%	3%
OLA048	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-44	-40	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	2764	0	-44	-40	2.0	10	189	184	184	31503	93%	4%	3%
OLA049	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-48	-44	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	50	2745	0	-48	-44	2.0	25	189	184	185	31503	93%	4%	3%
OLA050	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	2701	0	-	-	0.0	-	189	185	-	31503	93%	4%	3%
OLA051	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-58	-54	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	35	2693	0	-58	-54	2.0	11	189	184	185	31503	93%	4%	3%
OLA052	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	2653	0	-	-	0.0	-	189	185	-	31503	93%	4%	3%
OLA053	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-65	-61	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	2653	0	-65	-61	2.0	19	189	184	185	31503	93%	4%	3%
OLA054	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-72	-68	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	2602	0	-72	-68	2.0	12	189	184	186	31503	93%	4%	3%
OLA055	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	2592	0	-	-	0.0	-	189	185	-	31503	93%	4%	3%
OLA056	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-76	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	37	2552	0	-76	-71	2.0	13	189	185	186	31503	93%	4%	3%
OLA057	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	2539	0	-	-	0.0	-	189	185	-	31503	93%	4%	3%
OLA058	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-76	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	35	2499	0	-76	-71	2.0	10	189	185	186	31503	93%	4%	3%

OLA059	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	2478	0	-	-	0.0	-	189	185	-	31503	93%	4%	3%
OLA060	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	39	2449	0	-75	-70	1.8	15	189	186	186	31503	93%	4%	3%
OLA061	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	2404	0	-	-	0.0	-	189	184	-	31503	93%	4%	3%
OLA062	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	32	2393	0	-75	-70	1.8	7	189	186	185	31503	93%	4%	3%
OLA063	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	16	2349	0	-	-	0.0	-	189	185	-	31503	93%	4%	3%
OLA064	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-67	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	2354	0	-73	-67	1.8	6	189	186	185	31503	93%	4%	3%
OLA065	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	21	2273	0	-	-	0.0	-	189	183	-	31503	93%	4%	3%
OLA066	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	2219	0	-	-	0.0	-	189	183	-	31503	93%	4%	3%
OLA067	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-67	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	2190	0	-73	-67	1.8	14	189	181	182	31503	93%	4%	3%
OLA068	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	2140	0	-	-	0.0	-	189	180	-	31503	93%	4%	3%
OLA069	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	60	2122	0	-73	-66	1.8	31	189	181	180	31503	93%	4%	3%
OLA070	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	2073	0	-73	-66	1.8	17	189	179	178	31503	93%	4%	3%
OLA071	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	2053	0	-	-	0.0	-	189	178	-	31503	93%	4%	3%
OLA072	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	1990	0	-	-	0.0	-	189	177	-	31503	93%	4%	3%
OLA073	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	1993	0	-73	-66	1.9	10	189	177	177	31503	93%	4%	3%
OLA074	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	1910	0	-	-	0.0	-	189	176	-	31503	93%	4%	3%
OLA075	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-83	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	70	1917	0	-	-	0.0	-	189	175	-	31503	93%	4%	3%
OLA076	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	79	1855	0	-	-	0.0	-	189	175	-	31503	93%	4%	3%
OLA077	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	24	1608	0	-	-	0.0	-	189	174	-	31503	93%	4%	3%
OLA078	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-84	-74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	72	1613	0	-84	-74	6.0	3	189	172	172	31503	93%	4%	3%
OLA079	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	35	1527	0	-	-	0.0	-	189	175	-	31503	93%	4%	3%
OLA080	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-76	-67	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	33	1539	0	-	-	0.0	-	189	174	-	31503	93%	4%	3%
OLA081	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	54	1476	0	-	-	0.0	-	189	175	-	31503	93%	4%	3%
OLA082	70	2.6%	2	Manual	1	Typical Asphalt or Concrete	-66	-52	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	1246	0	-66	-52	1.8	15	189	181	181	31503	93%	4%	3%
OLA083	70	2.6%	2	Manual	1	Typical Asphalt or Concrete	-70	-55	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	1202	0	-70	-55	2.0	13	189	182	182	31503	93%	4%	3%
OLA084	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-80	-64	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	50	1156	0	-80	-64	1.6	18	189	183	182	31503	93%	4%	3%
OLA085	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	39	1046	0	-90	-82	2.6	8	189	182	181	31503	93%	4%	3%
OLA086	70	3.8%	2	Manual	1	Typical Asphalt or Concrete	-78	71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	82	82	0	13	71	2.0	19	190	193	194	31503	93%	4%	3%
OLA087	70	3.8%	2	Manual	1	Typical Asphalt or Concrete	-79	74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	66	66	0	53	74	2.0	55	192	194	194	31503	93%	4%	3%
OLA088	70	3.8%	2	Manual	1	Typical Asphalt or Concrete	-73	73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	88	88	0	40	73	6.0	21	193	194	194	31503	93%	4%	3%
OLA089	70	3.8%	2	Manual	1	Typical Asphalt or Concrete	-50	80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	46	0	-50	40	3.0	3	204	205	205	31503	93%	4%	3%
OLA090	70	3.8%	2	Manual	1	Typical Asphalt or Concrete	-21	78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	83	83	0	-	-	0.0	-	204	205	-	31503	93%	4%	3%
OLA091	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	82	83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	55	348	0	-	-	0.0	-	204	203	-	31503	93%	4%	3%
OLA092	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	84	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	491	0	-	-	0.0	-	204	203	-	31503	93%	4%	3%
OLA093	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	83	84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	48	590	0	83	84	1.7	17	204	202	201	31503	93%	4%	3%
OLA094	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	69	71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	761	0	-	-	0.0	-	204	202	-	31503	93%	4%	3%
OLA095	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	67	69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	78	831	0	-	-	0.0	-	204	202	-	31503	93%	4%	3%
OLA096	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	87	829	0	-	-	0.0	-	204	202	-	31503	93%	4%	3%
OLA097	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	57	61	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	37	882	0	57	61	1.8	5	204	202	201	31503	93%	4%	3%
OLA098	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	57	61	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	926	0	57	61	1.8	4	204	202	202	31503	93%	4%	3%
OLA099	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	60	65	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	1054	0	-	-	0.0	-	204	201	-	31503	93%	4%	3%
OLA100	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	1503	0	-	-	0.0	-	204	202	-	31503	93%	4%	3%
OLA101	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	1574	0	-	-	0.0	-	204	201	-	31503	93%	4%	3%
OLA102	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	67	1782	0	-	-	0.0	-	204	198	-	31503	93%	4%	3%
OLA103	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	59	1950	0	-	-	0.0	-	204	197	-	31503	93%	4%	3%
OLA104	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-72	-65	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	88	2143	0	-	-	0.0	-	204	196	-	31503	93%	4%	3%

Mature State of Development - 2041 S05_SBa Kennedy Road 14th Avenue Denison Street

POR	Posted Speed Limit (km/hr)	Road Grade (%)		Road Grade Mode		Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)		Topography		Wood Depth	No of Row of Houses	Density of 1st Row		Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	177	6009	0	-89	-89	2.0	7	204	209	209	34069	93%	4%	3%
OLA002	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	60	5944	0	-	-	0.0	-	204	207	-	34069	93%	4%	3%
OLA003	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	5925	0	89	89	2.0	4	204	207	206	34069	93%	4%	3%
OLA004	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	5832	0	-	-	0.0	-	204	207	-	34069	93%	4%	3%
OLA005	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	88	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	5789	0	88	89	2.2	5	204	208	207	34069	93%	4%	3%
OLA006	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	5754	0	-	-	0.0	-	204	207	-	34069	93%	4%	3%
OLA007	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	5758	0	89	89	2.1	5	204	208	207	34069	93%	4%	3%
OLA008	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	5682	0	-	-	0.0	-	204	207	-	34069	93%	4%	3%
OLA009	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	20	5682	0	90	90	2.1	5	204	207	207	34069	93%	4%	3%
OLA010	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	5581	0	-	-	0.0	-	204	206	-	34069	93%	4%	3%
OLA011	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	60	5589	0	-	-	0.0	-	204	206	-	34069	93%	4%	3%
OLA012	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	5493	0	-	-	0.0	-	204	204	-	34069	93%	4%	3%
OLA013	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	5434	0	-	-	0.0	-	204	204	-	34069	93%	4%	3%
OLA014	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	18	5421	0	89	89	2.0	4	204	203	203	34069	93%	4%	3%
OLA015	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	5343	0	90	90	2.0	6	204	202	202	34069	93%	4%	3%
OLA016	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	62	5298	0	-	-	0.0	-	204	200	-	34069	93%	4%	3%
OLA017	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	42	5055	0	-	-	0.0	-	204	196	-	34069	93%	4%	3%
OLA018	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	5019	0	-	-	0.0	-	204	196	-	34069	93%	4%	3%
OLA019	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	68	4980	0	-	-	0.0	-	204	197	-	34069	93%	4%	3%
OLA020	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	4885	0	-	-	0.0	-	204	197	-	34069	93%	4%	3%
OLA021	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	76	4840	0	-	-	0.0	-	204	200	-	34069	93%	4%	3%
OLA022	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-84	-84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	50	4693	0	-	-	0.0	-	204	200	-	34069	93%	4%	3%
OLA023	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	71	4663	0	-	-	0.0	-	204	199	-	34069	93%	4%	3%
OLA024	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	4480	0	-	-	0.0	-	204	193	-	34069	93%	4%	3%
OLA025	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	4414	0	-	-	0.0	-	204	191	-	34069	93%	4%	3%
OLA026	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	4021	0	89	89	6.0	3	204	183	183	34069	93%	4%	3%
OLA027	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	3977	0	-	-	0.0	-	204	185	-	34069	93%	4%	3%
OLA028	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	3943	0	-	-	0.0	-	204	182	-	34069	93%	4%	3%
OLA029	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	57	3918	0	-	-	0.0	-	204	185	-	34069	93%	4%	3%
OLA030	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	55	3877	0	-	-	0.0	-	204	184	-	34069	93%	4%	3%
OLA031	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	3866	0	-	-	0.0	-	204	182	-	34069	93%	4%	3%
OLA032	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	59	3790	0	-	-	0.0	-	204	181	-	34069	93%	4%	3%
OLA033	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-58	-58	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	41	3794	0	-	-	0.0	-	204	182	-	34069	93%	4%	3%
OLA034	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	3780	0	-	-	0.0	-	204	182	-	34069	93%	4%	3%
OLA035	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	3709	0	-	-	0.0	-	204	182	-	34069	93%	4%	3%
OLA036	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-45	-45	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	41	3743	0	-	-	0.0	-	204	182	-	34069	93%	4%	3%
OLA037	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	3672	0	-	-	0.0	-	204	182	-	34069	93%	4%	3%
OLA038	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-35	-35	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	39	3700	0	-	-	0.0	-	204	182	-	34069	93%	4%	3%
OLA039	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	3637	0	-	-	0.0	-	204	181	-	34069	93%	4%	3%
OLA040	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-22	-21	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	39	3671	0	-	-	0.0	-	204	183	-	34069	93%	4%	3%
OLA041	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	3604	0	-	-	0.0	-	204	181	-	34069	93%	4%	3%
OLA042	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	3597	0	-	-	0.0	-	204	182	-	34069	93%	4%	3%
OLA043	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-20	-20	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	41	3653	0	-20	-20	1.8	12	204	183	182	34069	93%	4%	3%
OLA044	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	3579	0	-	-	0.0	-	204	182	-	34069	93%	4%	3%
OLA045	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	3562	0	-	-	0.0	-	204	183	-	34069	93%	4%	3%
OLA046	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-24	-24	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	3621	0	-	-	0.0	-	204	185	-	34069	93%	4%	3%
OLA047	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	35	3521	0	-	-	0.0	-	204	183	-	34069	93%	4%	3%
OLA048	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-45	-44	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	3537	0	-45	-44	2.0	10	204	184	184	34069	93%	4%	3%
OLA049	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-50	-48	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	50	3517	0	-50	-48	2.0	25	204	184	185	34069	93%	4%	3%
OLA050	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	3477	0	-	-	0.0	-	204	185	-	34069	93%	4%	3%
OLA051	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-59	-58	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	35	3463	0	-59	-58	2.0	11	204	184	185	34069	93%	4%	3%
OLA052	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	3427	0	-	-	0.0	-	204	185	-	34069	93%	4%	3%
OLA053	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-67	-65	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	3420	0	-67	-65	2.0	19	204	184	185	34069	93%	4%	3%
OLA054	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-74	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	3369	0	-74	-72	2.0	12	204	184	186	34069	93%	4%	3%
OLA055	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	3364	0	-	-	0.0	-	204	185	-	34069	93%	4%	3%
OLA056	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	37	3317	0	-77	-76	2.0	13	204	185	186	34069	93%	4%	3%
OLA057	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	3310	0	-	-	0.0	-	204	185	-	34069	93%	4%	3%
OLA058	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	35	3263	0	-77	-76	2.0	10	204	185	186	34069	93%	4%	3%

OLA059	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	3247	0	-	-	0.0	-	204	185	-	34069	93%	4%	3%
OLA060	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	39	3211	0	-77	-75	1.8	15	204	186	186	34069	93%	4%	3%
OLA061	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	3172	0	-	-	0.0	-	204	184	-	34069	93%	4%	3%
OLA062	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	32	3154	0	-77	-75	1.8	7	204	186	185	34069	93%	4%	3%
OLA063	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	16	3113	0	-	-	0.0	-	204	185	-	34069	93%	4%	3%
OLA064	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	3111	0	-75	-73	1.8	6	204	186	185	34069	93%	4%	3%
OLA065	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	21	3036	0	-	-	0.0	-	204	183	-	34069	93%	4%	3%
OLA066	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	2981	0	-	-	0.0	-	204	183	-	34069	93%	4%	3%
OLA067	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	2941	0	-75	-73	1.8	14	204	181	182	34069	93%	4%	3%
OLA068	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	2899	0	-	-	0.0	-	204	180	-	34069	93%	4%	3%
OLA069	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	60	2870	0	-75	-73	1.8	31	204	181	180	34069	93%	4%	3%
OLA070	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	2821	0	-75	-73	1.8	17	204	179	178	34069	93%	4%	3%
OLA071	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	2809	0	-	-	0.0	-	204	178	-	34069	93%	4%	3%
OLA072	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	2743	0	-	-	0.0	-	204	177	-	34069	93%	4%	3%
OLA073	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-76	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	2737	0	-76	-73	1.9	10	204	177	177	34069	93%	4%	3%
OLA074	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	2662	0	-	-	0.0	-	204	176	-	34069	93%	4%	3%
OLA075	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	-83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	70	2653	0	-	-	0.0	-	204	175	-	34069	93%	4%	3%
OLA076	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	79	2589	0	-	-	0.0	-	204	175	-	34069	93%	4%	3%
OLA077	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	24	2357	0	90	90	6.0	3	204	174	174	34069	93%	4%	3%
OLA078	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	72	2346	0	-87	-84	6.0	3	204	172	172	34069	93%	4%	3%
OLA079	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	35	2275	0	-	-	0.0	-	204	175	-	34069	93%	4%	3%
OLA080	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-79	-76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	33	2276	0	-79	-79	1.7	30	204	174	174	34069	93%	4%	3%
OLA081	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	54	2225	0	-	-	0.0	-	204	175	-	34069	93%	4%	3%
OLA082	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-70	-66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	1945	0	-70	-66	1.8	15	204	181	181	34069	93%	4%	3%
OLA083	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-74	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	1898	0	-74	-70	2.0	13	204	182	182	34069	93%	4%	3%
OLA084	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-85	-80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	50	1846	0	-85	-80	1.6	18	204	183	182	34069	93%	4%	3%
OLA085	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	39	1733	0	-	-	0.0	-	204	182	-	34069	93%	4%	3%
OLA086	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-85	-78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	82	357	0	-	-	0.0	-	204	193	-	34069	93%	4%	3%
OLA087	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	-79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	66	316	0	-	-	0.0	-	204	194	-	34069	93%	4%	3%
OLA088	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-84	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	88	297	0	-	-	0.0	-	204	194	-	34069	93%	4%	3%
OLA089	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	-50	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	75	0	-55	-50	3.0	3	204	205	205	34069	93%	4%	3%
OLA090	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-83	-21	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	83	91	0	-	-	0.0	-	204	205	-	34069	93%	4%	3%
OLA091	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-80	82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	55	55	0	-45	45	3.0	3	203	203	203	34069	93%	4%	3%
OLA092	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	45	0	-77	-30	3.0	3	202	203	203	34069	93%	4%	3%
OLA093	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-63	84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	48	48	0	-34	84	1.7	17	201	202	201	34069	93%	4%	3%
OLA094	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	46	71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	95	0	-	-	0.0	-	201	202	-	34069	93%	4%	3%
OLA095	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	56	69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	78	160	0	-	-	0.0	-	201	202	-	34069	93%	4%	3%
OLA096	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	87	196	0	-	-	0.0	-	201	202	-	34069	93%	4%	3%
OLA097	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	61	67	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	37	207	0	61	67	1.8	5	201	202	201	34069	93%	4%	3%
OLA098	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	61	65	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	251	0	61	65	1.8	4	201	202	202	34069	93%	4%	3%
OLA099	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	65	76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	388	0	-	-	0.0	-	201	201	-	34069	93%	4%	3%
OLA100	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	880	0	-	-	0.0	-	201	202	-	34069	93%	4%	3%
OLA101	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	952	0	-	-	0.0	-	201	201	-	34069	93%	4%	3%
OLA102	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	67	1170	0	-	-	0.0	-	201	198	-	34069	93%	4%	3%
OLA103	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-64	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	59	1330	0	-	-	0.0	-	201	197	-	34069	93%	4%	3%
OLA104	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-65	-57	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	88	1514	0	-	-	0.0	-	201	196	-	34069	93%	4%	3%

Mature State of Development - 2041 S05_SBb Kennedy Road 14th Avenue Denison Street

POR	Posted Speed Limit (km/hr)	Road Grade (%)		Road Grade Mode		Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)		Topography		Wood Depth	No of Row of Houses	Density of 1st Row		Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	177	6686	0	-89	-89	2.0	7	201	209	209	34069	93%	4%	3%
OLA002	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	60	6620	0	-	-	0.0	-	201	207	-	34069	93%	4%	3%
OLA003	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	6601	0	89	89	2.0	4	201	207	206	34069	93%	4%	3%
OLA004	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	6508	0	-	-	0.0	-	201	207	-	34069	93%	4%	3%
OLA005	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	6465	0	89	89	2.2	5	201	208	207	34069	93%	4%	3%
OLA006	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	6430	0	-90	-90	2.1	6	201	207	207	34069	93%	4%	3%
OLA007	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	6434	0	89	90	2.1	5	201	208	207	34069	93%	4%	3%
OLA008	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	6359	0	-	-	0.0	-	201	207	-	34069	93%	4%	3%
OLA009	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	20	6358	0	90	90	2.1	5	201	207	207	34069	93%	4%	3%
OLA010	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	6258	0	-90	-90	1.9	8	201	206	206	34069	93%	4%	3%
OLA011	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	60	6265	0	-	-	0.0	-	201	206	-	34069	93%	4%	3%
OLA012	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	6169	0	-90	-90	2.4	7	201	204	204	34069	93%	4%	3%
OLA013	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	6110	0	-	-	0.0	-	201	204	-	34069	93%	4%	3%
OLA014	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	18	6098	0	89	89	2.0	4	201	203	203	34069	93%	4%	3%
OLA015	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	6019	0	90	90	2.0	6	201	202	202	34069	93%	4%	3%
OLA016	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	62	5975	0	-	-	0.0	-	201	200	-	34069	93%	4%	3%
OLA017	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	42	5731	0	-89	-89	1.9	7	201	196	196	34069	93%	4%	3%
OLA018	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	5696	0	-90	-89	1.9	2	201	196	196	34069	93%	4%	3%
OLA019	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	68	5656	0	-	-	0.0	-	201	197	-	34069	93%	4%	3%
OLA020	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	5561	0	-90	-89	2.0	8	201	197	197	34069	93%	4%	3%
OLA021	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	-88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	76	5516	0	-	-	0.0	-	201	200	-	34069	93%	4%	3%
OLA022	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-84	-84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	50	5369	0	-84	-84	9.0	3	201	200	200	34069	93%	4%	3%
OLA023	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	71	5339	0	-	-	0.0	-	201	199	-	34069	93%	4%	3%
OLA024	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	5156	0	-	-	0.0	-	201	193	-	34069	93%	4%	3%
OLA025	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	5091	0	-87	-87	1.8	5	201	191	192	34069	93%	4%	3%
OLA026	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	4697	0	89	90	6.0	3	201	183	183	34069	93%	4%	3%
OLA027	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	4654	0	-	-	0.0	-	201	185	-	34069	93%	4%	3%
OLA028	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	4619	0	-	-	0.0	-	201	182	-	34069	93%	4%	3%
OLA029	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	57	4595	0	-	-	0.0	-	201	185	-	34069	93%	4%	3%
OLA030	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	55	4553	0	-	-	0.0	-	201	184	-	34069	93%	4%	3%
OLA031	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	4543	0	-	-	0.0	-	201	182	-	34069	93%	4%	3%
OLA032	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	59	4466	0	-	-	0.0	-	201	181	-	34069	93%	4%	3%
OLA033	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-58	-57	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	41	4471	0	-	-	0.0	-	201	182	-	34069	93%	4%	3%
OLA034	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	4456	0	-	-	0.0	-	201	182	-	34069	93%	4%	3%
OLA035	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	4385	0	-	-	0.0	-	201	182	-	34069	93%	4%	3%
OLA036	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-45	-45	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	41	4420	0	-	-	0.0	-	201	182	-	34069	93%	4%	3%
OLA037	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	4348	0	-	-	0.0	-	201	182	-	34069	93%	4%	3%
OLA038	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-35	-34	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	39	4376	0	-	-	0.0	-	201	182	-	34069	93%	4%	3%
OLA039	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	4313	0	-	-	0.0	-	201	181	-	34069	93%	4%	3%
OLA040	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-22	-21	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	39	4347	0	-	-	0.0	-	201	183	-	34069	93%	4%	3%
OLA041	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	4280	0	-	-	0.0	-	201	181	-	34069	93%	4%	3%
OLA042	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	4273	0	-	-	0.0	-	201	182	-	34069	93%	4%	3%
OLA043	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-20	-20	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	41	4329	0	-20	-20	1.8	12	201	183	182	34069	93%	4%	3%
OLA044	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	4254	0	-	-	0.0	-	201	182	-	34069	93%	4%	3%
OLA045	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	4236	0	-	-	0.0	-	201	183	-	34069	93%	4%	3%
OLA046	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-24	-24	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	4296	0	-	-	0.0	-	201	185	-	34069	93%	4%	3%
OLA047	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	35	4195	0	-	-	0.0	-	201	183	-	34069	93%	4%	3%
OLA048	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-45	-44	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	4209	0	-45	-44	2.0	10	201	184	184	34069	93%	4%	3%
OLA049	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-50	-49	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	50	4189	0	-50	-49	2.0	25	201	184	185	34069	93%	4%	3%
OLA050	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	4149	0	-	-	0.0	-	201	185	-	34069	93%	4%	3%
OLA051	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-59	-59	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	35	4134	0	-59	-59	2.0	11	201	184	185	34069	93%	4%	3%
OLA052	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	4099	0	-	-	0.0	-	201	185	-	34069	93%	4%	3%
OLA053	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-67	-66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	4091	0	-67	-66	2.0	19	201	184	185	34069	93%	4%	3%
OLA054	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-74	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	4039	0	-74	-73	2.0	12	201	184	186	34069	93%	4%	3%
OLA055	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	4035	0	-	-	0.0	-	201	185	-	34069	93%	4%	3%
OLA056	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	37	3987	0	-77	-77	2.0	13	201	185	186	34069	93%	4%	3%
OLA057	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	3982	0	-	-	0.0	-	201	185	-	34069	93%	4%	3%
OLA058	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	35	3932	0	-77	-77	2.0	10	201	185	186	34069	93%	4%	3%

OLA059	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	3918	0	-	-	0.0	-	201	185	-	34069	93%	4%	3%
OLA060	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	39	3880	0	-77	-76	1.8	15	201	186	186	34069	93%	4%	3%
OLA061	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	3843	0	-	-	0.0	-	201	184	-	34069	93%	4%	3%
OLA062	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	32	3823	0	-77	-76	1.8	7	201	186	185	34069	93%	4%	3%
OLA063	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	16	3783	0	-	-	0.0	-	201	185	-	34069	93%	4%	3%
OLA064	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	3779	0	-75	-74	1.8	6	201	186	185	34069	93%	4%	3%
OLA065	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	21	3706	0	-	-	0.0	-	201	183	-	34069	93%	4%	3%
OLA066	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	3651	0	-	-	0.0	-	201	183	-	34069	93%	4%	3%
OLA067	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	3607	0	-75	-75	1.8	14	201	181	182	34069	93%	4%	3%
OLA068	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	3568	0	-	-	0.0	-	201	180	-	34069	93%	4%	3%
OLA069	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	60	3535	0	-75	-75	1.8	31	201	181	180	34069	93%	4%	3%
OLA070	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	3486	0	-75	-75	1.8	17	201	179	178	34069	93%	4%	3%
OLA071	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	3477	0	-	-	0.0	-	201	178	-	34069	93%	4%	3%
OLA072	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	3411	0	-	-	0.0	-	201	177	-	34069	93%	4%	3%
OLA073	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-76	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	3402	0	-76	-75	1.9	10	201	177	177	34069	93%	4%	3%
OLA074	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	3329	0	-	-	0.0	-	201	176	-	34069	93%	4%	3%
OLA075	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	-86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	70	3316	0	-	-	0.0	-	201	175	-	34069	93%	4%	3%
OLA076	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	79	3251	0	-	-	0.0	-	201	175	-	34069	93%	4%	3%
OLA077	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	24	3024	0	90	90	6.0	3	201	174	174	34069	93%	4%	3%
OLA078	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	72	3009	0	-87	-86	6.0	3	201	172	172	34069	93%	4%	3%
OLA079	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	35	2942	0	-	-	0.0	-	201	175	-	34069	93%	4%	3%
OLA080	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-79	-79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	33	2940	0	-79	-79	1.7	30	201	174	174	34069	93%	4%	3%
OLA081	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	54	2893	0	-	-	0.0	-	201	175	-	34069	93%	4%	3%
OLA082	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-70	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	2601	0	-70	-70	1.8	15	201	181	181	34069	93%	4%	3%
OLA083	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-74	-74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	2554	0	-74	-74	2.0	13	201	182	182	34069	93%	4%	3%
OLA084	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-85	-85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	50	2501	0	-85	-85	1.6	18	201	183	182	34069	93%	4%	3%
OLA085	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	39	2388	0	-	-	0.0	-	201	182	-	34069	93%	4%	3%
OLA086	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-85	-84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	82	1028	0	-	-	0.0	-	201	193	-	34069	93%	4%	3%
OLA087	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	-84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	66	989	0	-	-	0.0	-	201	194	-	34069	93%	4%	3%
OLA088	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-84	-83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	88	965	0	-	-	0.0	-	201	194	-	34069	93%	4%	3%
OLA089	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	-84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	736	0	-	-	0.0	-	201	205	-	34069	93%	4%	3%
OLA090	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-83	-81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	83	714	0	-	-	0.0	-	201	205	-	34069	93%	4%	3%
OLA091	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-80	-79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	55	337	0	-	-	0.0	-	201	203	-	34069	93%	4%	3%
OLA092	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	192	0	-77	-76	3.0	3	201	203	203	34069	93%	4%	3%
OLA093	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-71	-63	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	48	101	0	-	-	0.0	-	201	202	-	34069	93%	4%	3%
OLA094	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-49	46	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	58	0	-49	43	2.0	12	200	202	201	34069	93%	4%	3%
OLA095	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-6	56	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	78	78	0	-6	15	6.0	3	200	202	202	34069	93%	4%	3%
OLA096	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-34	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	87	101	0	-	-	0.0	-	200	202	-	34069	93%	4%	3%
OLA097	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	54	67	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	37	68	0	54	67	1.8	5	200	202	201	34069	93%	4%	3%
OLA098	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	55	65	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	113	0	55	65	1.8	4	200	202	202	34069	93%	4%	3%
OLA099	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	76	78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	247	0	-	-	0.0	-	200	201	-	34069	93%	4%	3%
OLA100	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	745	0	-90	-88	2.2	7	200	202	202	34069	93%	4%	3%
OLA101	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	817	0	-90	-89	2.1	6	200	201	201	34069	93%	4%	3%
OLA102	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-80	-77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	67	1036	0	-	-	0.0	-	200	198	-	34069	93%	4%	3%
OLA103	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-64	-62	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	59	1194	0	-	-	0.0	-	200	197	-	34069	93%	4%	3%
OLA104	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-57	-56	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	88	1376	0	-	-	0.0	-	200	196	-	34069	93%	4%	3%

Mature State of Development - 2041 S05_SBc Kennedy Road 14th Avenue Denison Street

POR	Posted Speed Limit (km/hr)	Road Grade (%)		Road Grade Mode		Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)		Topography		Wood Depth	No of Row of Houses	Density of 1st Row		Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	-88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	177	6824	0	-89	-88	2.0	7	200	209	209	34069	93%	4%	3%
OLA002	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	60	6758	0	-	-	0.0	-	200	207	-	34069	93%	4%	3%
OLA003	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	6739	0	89	90	2.0	4	200	207	206	34069	93%	4%	3%
OLA004	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	6645	0	-	-	0.0	-	200	207	-	34069	93%	4%	3%
OLA005	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	6603	0	89	90	2.2	5	200	208	207	34069	93%	4%	3%
OLA006	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	6567	0	-90	-89	2.1	6	200	207	207	34069	93%	4%	3%
OLA007	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	6571	0	90	90	2.1	5	200	208	207	34069	93%	4%	3%
OLA008	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	6496	0	-90	-90	2.0	12	200	207	207	34069	93%	4%	3%
OLA009	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	20	6495	0	90	90	2.1	5	200	207	207	34069	93%	4%	3%
OLA010	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	6395	0	-90	-89	1.9	8	200	206	206	34069	93%	4%	3%
OLA011	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	60	6402	0	-	-	0.0	-	200	206	-	34069	93%	4%	3%
OLA012	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	6307	0	-90	-89	2.4	7	200	204	204	34069	93%	4%	3%
OLA013	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	6248	0	-	-	0.0	-	200	204	-	34069	93%	4%	3%
OLA014	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	89	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	18	6235	0	89	90	2.0	4	200	203	203	34069	93%	4%	3%
OLA015	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	6156	0	90	90	2.0	6	200	202	202	34069	93%	4%	3%
OLA016	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	62	6111	0	-	-	0.0	-	200	200	-	34069	93%	4%	3%
OLA017	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	-88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	42	5869	0	-89	-88	1.9	7	200	196	196	34069	93%	4%	3%
OLA018	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	-88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	5833	0	-89	-88	1.9	2	200	196	196	34069	93%	4%	3%
OLA019	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	-88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	68	5793	0	-	-	0.0	-	200	197	-	34069	93%	4%	3%
OLA020	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	-88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	5699	0	-89	-88	2.0	8	200	197	197	34069	93%	4%	3%
OLA021	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-88	-87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	76	5654	0	-	-	0.0	-	200	200	-	34069	93%	4%	3%
OLA022	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-84	-83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	50	5507	0	-84	-83	9.0	3	200	200	200	34069	93%	4%	3%
OLA023	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	71	5476	0	-	-	0.0	-	200	199	-	34069	93%	4%	3%
OLA024	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	28	5293	0	-	-	0.0	-	200	193	-	34069	93%	4%	3%
OLA025	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	-86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	5228	0	-87	-86	1.8	5	200	191	192	34069	93%	4%	3%
OLA026	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	4834	0	90	90	6.0	3	200	183	183	34069	93%	4%	3%
OLA027	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	-88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	51	4791	0	-89	-88	2.5	26	200	185	184	34069	93%	4%	3%
OLA028	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	4756	0	-	-	0.0	-	200	182	-	34069	93%	4%	3%
OLA029	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	-85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	57	4732	0	-	-	0.0	-	200	185	-	34069	93%	4%	3%
OLA030	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-76	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	55	4691	0	-	-	0.0	-	200	184	-	34069	93%	4%	3%
OLA031	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	4680	0	-	-	0.0	-	200	182	-	34069	93%	4%	3%
OLA032	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	59	4603	0	-	-	0.0	-	200	181	-	34069	93%	4%	3%
OLA033	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-57	-56	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	41	4609	0	-	-	0.0	-	200	182	-	34069	93%	4%	3%
OLA034	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	4594	0	-	-	0.0	-	200	182	-	34069	93%	4%	3%
OLA035	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	4522	0	-	-	0.0	-	200	182	-	34069	93%	4%	3%
OLA036	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-45	-44	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	41	4558	0	-	-	0.0	-	200	182	-	34069	93%	4%	3%
OLA037	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	4486	0	-	-	0.0	-	200	182	-	34069	93%	4%	3%
OLA038	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-34	-33	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	39	4515	0	-	-	0.0	-	200	182	-	34069	93%	4%	3%
OLA039	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	4451	0	-	-	0.0	-	200	181	-	34069	93%	4%	3%
OLA040	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-21	-20	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	39	4486	0	-	-	0.0	-	200	183	-	34069	93%	4%	3%
OLA041	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	4419	0	-	-	0.0	-	200	181	-	34069	93%	4%	3%
OLA042	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	4412	0	-	-	0.0	-	200	182	-	34069	93%	4%	3%
OLA043	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-20	-19	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	41	4468	0	-20	-19	1.8	12	200	183	182	34069	93%	4%	3%
OLA044	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	4393	0	-	-	0.0	-	200	182	-	34069	93%	4%	3%
OLA045	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	4376	0	-	-	0.0	-	200	183	-	34069	93%	4%	3%
OLA046	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-24	-23	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	4435	0	-	-	0.0	-	200	185	-	34069	93%	4%	3%
OLA047	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	35	4335	0	-	-	0.0	-	200	183	-	34069	93%	4%	3%
OLA048	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-44	-43	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	4350	0	-44	-43	2.0	10	200	184	184	34069	93%	4%	3%
OLA049	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-49	-48	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	50	4329	0	-49	-48	2.0	25	200	184	185	34069	93%	4%	3%
OLA050	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	4290	0	-	-	0.0	-	200	185	-	34069	93%	4%	3%
OLA051	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-59	-58	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	35	4275	0	-59	-58	2.0	11	200	184	185	34069	93%	4%	3%
OLA052	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	4239	0	-	-	0.0	-	200	185	-	34069	93%	4%	3%
OLA053	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-66	-65	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	4231	0	-66	-65	2.0	19	200	184	185	34069	93%	4%	3%
OLA054	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	4179	0	-73	-72	2.0	12	200	184	186	34069	93%	4%	3%
OLA055	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	4176	0	-	-	0.0	-	200	185	-	34069	93%	4%	3%
OLA056	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	37	4127	0	-77	-76	2.0	13	200	185	186	34069	93%	4%	3%
OLA057	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	4122	0	-	-	0.0	-	200	185	-	34069	93%	4%	3%
OLA058	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	35	4073	0	-77	-76	2.0	10	200	185	186	34069	93%	4%	3%

OLA059	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	4058	0	-	-	0.0	-	200	185	-	34069	93%	4%	3%
OLA060	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-76	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	39	4021	0	-76	-75	1.8	15	200	186	186	34069	93%	4%	3%
OLA061	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	3983	0	-	-	0.0	-	200	184	-	34069	93%	4%	3%
OLA062	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-76	-75	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	32	3964	0	-76	-75	1.8	7	200	186	185	34069	93%	4%	3%
OLA063	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	16	3924	0	-	-	0.0	-	200	185	-	34069	93%	4%	3%
OLA064	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-74	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	3920	0	-74	-73	1.8	6	200	186	185	34069	93%	4%	3%
OLA065	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	21	3847	0	-	-	0.0	-	200	183	-	34069	93%	4%	3%
OLA066	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	3791	0	-	-	0.0	-	200	183	-	34069	93%	4%	3%
OLA067	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	3749	0	-75	-74	1.8	14	200	181	182	34069	93%	4%	3%
OLA068	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	3709	0	-	-	0.0	-	200	180	-	34069	93%	4%	3%
OLA069	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	60	3676	0	-75	-74	1.8	31	200	181	180	34069	93%	4%	3%
OLA070	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	3627	0	-75	-74	1.8	17	200	179	178	34069	93%	4%	3%
OLA071	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	3618	0	-	-	0.0	-	200	178	-	34069	93%	4%	3%
OLA072	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	3552	0	-	-	0.0	-	200	177	-	34069	93%	4%	3%
OLA073	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	3543	0	-75	-74	1.9	10	200	177	177	34069	93%	4%	3%
OLA074	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	3470	0	-	-	0.0	-	200	176	-	34069	93%	4%	3%
OLA075	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	-84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	70	3457	0	-	-	0.0	-	200	175	-	34069	93%	4%	3%
OLA076	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	79	3392	0	-	-	0.0	-	200	175	-	34069	93%	4%	3%
OLA077	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	24	3165	0	-	-	0.0	-	200	174	-	34069	93%	4%	3%
OLA078	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	-85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	72	3151	0	-86	-85	6.0	3	200	172	172	34069	93%	4%	3%
OLA079	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	35	3083	0	-	-	0.0	-	200	175	-	34069	93%	4%	3%
OLA080	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-79	-78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	33	3081	0	-	-	0.0	-	200	174	-	34069	93%	4%	3%
OLA081	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	54	3034	0	-	-	0.0	-	200	175	-	34069	93%	4%	3%
OLA082	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-70	-69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	2743	0	-70	-69	1.8	15	200	181	181	34069	93%	4%	3%
OLA083	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-74	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	2696	0	-74	-73	2.0	13	200	182	182	34069	93%	4%	3%
OLA084	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-85	-83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	50	2642	0	-85	-83	1.6	18	200	183	182	34069	93%	4%	3%
OLA085	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	39	2530	0	-	-	0.0	-	200	182	-	34069	93%	4%	3%
OLA086	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-84	-80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	82	1168	0	-	-	0.0	-	200	193	-	34069	93%	4%	3%
OLA087	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-84	-81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	66	1128	0	-	-	0.0	-	200	194	-	34069	93%	4%	3%
OLA088	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-83	-79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	88	1106	0	-	-	0.0	-	200	194	-	34069	93%	4%	3%
OLA089	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-84	-80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	876	0	-	-	0.0	-	200	205	-	34069	93%	4%	3%
OLA090	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	83	855	0	-	-	0.0	-	200	205	-	34069	93%	4%	3%
OLA091	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-79	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	55	478	0	-	-	0.0	-	200	203	-	34069	93%	4%	3%
OLA092	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-76	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	334	0	-76	-70	3.0	3	200	203	203	34069	93%	4%	3%
OLA093	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-71	-66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	48	241	0	-	-	0.0	-	200	202	-	34069	93%	4%	3%
OLA094	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-67	-49	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	97	0	-67	-49	2.0	12	200	202	201	34069	93%	4%	3%
OLA095	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-60	-6	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	78	79	0	-60	-6	6.0	3	200	202	202	34069	93%	4%	3%
OLA096	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-34	60	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	87	87	0	-	-	0.0	-	200	202	-	34069	93%	4%	3%
OLA097	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-76	54	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	37	37	0	-76	54	1.8	5	200	202	201	34069	93%	4%	3%
OLA098	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-62	55	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	61	0	-62	55	1.8	4	200	202	202	34069	93%	4%	3%
OLA099	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	37	78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	62	0	-	-	0.0	-	201	201	-	34069	93%	4%	3%
OLA100	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-88	-87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	540	0	-88	-87	2.2	7	201	202	202	34069	93%	4%	3%
OLA101	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	-88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	613	0	-89	-88	2.1	6	201	201	201	34069	93%	4%	3%
OLA102	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	67	832	0	-	-	0.0	-	201	198	-	34069	93%	4%	3%
OLA103	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-62	-62	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	59	989	0	-	-	0.0	-	201	197	-	34069	93%	4%	3%
OLA104	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-57	-56	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	88	1171	0	-	-	0.0	-	201	196	-	34069	93%	4%	3%

Mature State of Development - 2041 S06_SBa Kennedy Road Denison Street Steeles Avenue

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	-85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	177	7004	0	-88	-85	2.0	7	201	209	209	29750	98%	2%	0%
OLA002	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	60	6936	0	-	-	0.0	-	201	207	-	29750	98%	2%	0%
OLA003	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	6916	0	90	90	2.0	4	201	207	206	29750	98%	2%	0%
OLA004	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	53	6822	0	-	-	0.0	-	201	207	-	29750	98%	2%	0%
OLA005	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	6780	0	90	90	2.2	5	201	208	207	29750	98%	2%	0%
OLA006	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	6745	0	-89	-86	2.1	6	201	207	207	29750	98%	2%	0%
OLA007	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	6748	0	-	-	0.0	-	201	208	-	29750	98%	2%	0%
OLA008	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	6674	0	-90	-87	2.0	12	201	207	207	29750	98%	2%	0%
OLA009	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	20	6672	0	-	-	0.0	-	201	207	-	29750	98%	2%	0%
OLA010	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	51	6573	0	-89	-86	1.9	8	201	206	206	29750	98%	2%	0%
OLA011	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	60	6578	0	-	-	0.0	-	201	206	-	29750	98%	2%	0%
OLA012	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	49	6485	0	-89	-86	2.4	7	201	204	204	29750	98%	2%	0%
OLA013	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	58	6426	0	-	-	0.0	-	201	204	-	29750	98%	2%	0%
OLA014	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	18	6412	0	-	-	0.0	-	201	203	-	29750	98%	2%	0%
OLA015	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	22	6333	0	-	-	0.0	-	201	202	-	29750	98%	2%	0%
OLA016	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	6288	0	-	-	0.0	-	201	200	-	29750	98%	2%	0%
OLA017	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	-85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	42	6047	0	-88	-85	1.9	7	201	196	196	29750	98%	2%	0%
OLA018	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	-85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	6012	0	-88	-85	1.9	2	201	196	196	29750	98%	2%	0%
OLA019	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	-84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	68	5972	0	-	-	0.0	-	201	197	-	29750	98%	2%	0%
OLA020	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	-85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	46	5877	0	-88	-85	2.0	8	201	197	197	29750	98%	2%	0%
OLA021	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	-84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	76	5833	0	-	-	0.0	-	201	200	-	29750	98%	2%	0%
OLA022	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-83	-79	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	50	5686	0	-83	-79	9.0	3	201	200	200	29750	98%	2%	0%
OLA023	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	71	5653	0	-	-	0.0	-	201	199	-	29750	98%	2%	0%
OLA024	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	5470	0	-	-	0.0	-	201	193	-	29750	98%	2%	0%
OLA025	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	-82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	5407	0	-86	-82	1.8	5	201	191	192	29750	98%	2%	0%
OLA026	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	51	5010	0	-	-	0.0	-	201	183	-	29750	98%	2%	0%
OLA027	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	-84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	51	4970	0	-88	-84	2.5	26	201	185	184	29750	98%	2%	0%
OLA028	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	4933	0	-	-	0.0	-	201	182	-	29750	98%	2%	0%
OLA029	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-85	-81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	57	4911	0	-	-	0.0	-	201	185	-	29750	98%	2%	0%
OLA030	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-75	-71	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	55	4870	0	-	-	0.0	-	201	184	-	29750	98%	2%	0%
OLA031	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	4857	0	-	-	0.0	-	201	182	-	29750	98%	2%	0%
OLA032	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	59	4780	0	-	-	0.0	-	201	181	-	29750	98%	2%	0%
OLA033	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-56	-52	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	41	4788	0	-	-	0.0	-	201	182	-	29750	98%	2%	0%
OLA034	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	29	4772	0	-	-	0.0	-	201	182	-	29750	98%	2%	0%
OLA035	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	4702	0	-	-	0.0	-	201	182	-	29750	98%	2%	0%
OLA036	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-44	-40	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	41	4738	0	-	-	0.0	-	201	182	-	29750	98%	2%	0%
OLA037	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	4666	0	-	-	0.0	-	201	182	-	29750	98%	2%	0%
OLA038	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-33	-29	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	39	4696	0	-	-	0.0	-	201	182	-	29750	98%	2%	0%
OLA039	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	29	4632	0	-	-	0.0	-	201	181	-	29750	98%	2%	0%
OLA040	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-20	-16	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	39	4668	0	-	-	0.0	-	201	183	-	29750	98%	2%	0%
OLA041	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	4601	0	-	-	0.0	-	201	181	-	29750	98%	2%	0%
OLA042	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	4594	0	-	-	0.0	-	201	182	-	29750	98%	2%	0%
OLA043	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-19	-15	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	41	4651	0	-19	-15	1.8	12	201	183	182	29750	98%	2%	0%
OLA044	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	4577	0	-	-	0.0	-	201	182	-	29750	98%	2%	0%
OLA045	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	4560	0	-	-	0.0	-	201	183	-	29750	98%	2%	0%
OLA046	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-23	-19	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	4620	0	-	-	0.0	-	201	185	-	29750	98%	2%	0%
OLA047	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	4520	0	-	-	0.0	-	201	183	-	29750	98%	2%	0%
OLA048	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-43	-40	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	4537	0	-43	-40	2.0	10	201	184	184	29750	98%	2%	0%
OLA049	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-48	-45	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	50	4517	0	-48	-45	2.0	25	201	184	185	29750	98%	2%	0%
OLA050	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	25	4476	0	-	-	0.0	-	201	185	-	29750	98%	2%	0%
OLA051	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-58	-55	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	4463	0	-58	-55	2.0	11	201	184	185	29750	98%	2%	0%
OLA052	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	29	4427	0	-	-	0.0	-	201	185	-	29750	98%	2%	0%
OLA053	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-65	-62	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	4420	0	-65	-62	2.0	19	201	184	185	29750	98%	2%	0%
OLA054	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-72	-69	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	36	4369	0	-72	-69	2.0	12	201	184	186	29750	98%	2%	0%
OLA055	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	34	4364	0	-	-	0.0	-	201	185	-	29750	98%	2%	0%
OLA056	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-76	-73	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	37	4317	0	-76	-73	2.0	13	201	185	186	29750	98%	2%	0%
OLA057	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	34	4310	0	-	-	0.0	-	201	185	-	29750	98%	2%	0%
OLA058	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-76	-73	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	4263	0	-76	-73	2.0	10	201	185	186	29750	98%	2%	0%

OLA059	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	4247	0	-	-	0.0	-	201	185	-	29750	98%	2%	0%
OLA060	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	39	4211	0	-75	-72	1.8	15	201	186	186	29750	98%	2%	0%
OLA061	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	4172	0	-	-	0.0	-	201	184	-	29750	98%	2%	0%
OLA062	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	32	4154	0	-75	-72	1.8	7	201	186	185	29750	98%	2%	0%
OLA063	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	16	4113	0	-	-	0.0	-	201	185	-	29750	98%	2%	0%
OLA064	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	4111	0	-73	-70	1.8	6	201	186	185	29750	98%	2%	0%
OLA065	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	21	4036	0	-	-	0.0	-	201	183	-	29750	98%	2%	0%
OLA066	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	3981	0	-	-	0.0	-	201	183	-	29750	98%	2%	0%
OLA067	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-74	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	3940	0	-74	-71	1.8	14	201	181	182	29750	98%	2%	0%
OLA068	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	3899	0	-	-	0.0	-	201	180	-	29750	98%	2%	0%
OLA069	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-74	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	60	3868	0	-74	-71	1.8	31	201	181	180	29750	98%	2%	0%
OLA070	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-74	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	3819	0	-74	-71	1.8	17	201	179	178	29750	98%	2%	0%
OLA071	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	3809	0	-	-	0.0	-	201	178	-	29750	98%	2%	0%
OLA072	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	3743	0	-	-	0.0	-	201	177	-	29750	98%	2%	0%
OLA073	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-74	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	3736	0	-74	-71	1.9	10	201	177	177	29750	98%	2%	0%
OLA074	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	3661	0	-	-	0.0	-	201	176	-	29750	98%	2%	0%
OLA075	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-84	-81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	70	3651	0	-	-	0.0	-	201	175	-	29750	98%	2%	0%
OLA076	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	79	3586	0	-	-	0.0	-	201	175	-	29750	98%	2%	0%
OLA077	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	24	3356	0	-	-	0.0	-	201	174	-	29750	98%	2%	0%
OLA078	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-85	-82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	72	3344	0	-85	-82	6.0	3	201	172	172	29750	98%	2%	0%
OLA079	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	35	3274	0	-	-	0.0	-	201	175	-	29750	98%	2%	0%
OLA080	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-78	-74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	33	3274	0	-	-	0.0	-	201	174	-	29750	98%	2%	0%
OLA081	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	54	3224	0	-	-	0.0	-	201	175	-	29750	98%	2%	0%
OLA082	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-69	-65	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	2938	0	-69	-65	1.8	15	201	181	181	29750	98%	2%	0%
OLA083	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	2891	0	-73	-69	2.0	13	201	182	182	29750	98%	2%	0%
OLA084	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-83	-80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	50	2838	0	-83	-80	1.6	18	201	183	182	29750	98%	2%	0%
OLA085	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	39	2725	0	-	-	0.0	-	201	182	-	29750	98%	2%	0%
OLA086	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-80	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	82	1356	0	-	-	0.0	-	201	193	-	29750	98%	2%	0%
OLA087	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	66	1316	0	-	-	0.0	-	201	194	-	29750	98%	2%	0%
OLA088	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-79	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	88	1295	0	-	-	0.0	-	201	194	-	29750	98%	2%	0%
OLA089	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-80	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	1065	0	-	-	0.0	-	201	205	-	29750	98%	2%	0%
OLA090	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	83	1048	0	-	-	0.0	-	201	205	-	29750	98%	2%	0%
OLA091	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-65	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	55	674	0	-	-	0.0	-	201	203	-	29750	98%	2%	0%
OLA092	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-70	-63	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	533	0	-70	-63	3.0	3	201	203	203	29750	98%	2%	0%
OLA093	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-66	-63	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	48	444	0	-	-	0.0	-	201	202	-	29750	98%	2%	0%
OLA094	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-67	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	294	0	-69	-67	2.0	12	201	202	201	29750	98%	2%	0%
OLA095	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-74	-60	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	78	241	0	-74	-60	6.0	3	201	202	202	29750	98%	2%	0%
OLA096	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	60	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	87	172	0	-	-	0.0	-	201	202	-	29750	98%	2%	0%
OLA097	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-88	-76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	37	154	0	-88	-76	1.8	5	201	202	201	29750	98%	2%	0%
OLA098	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	-62	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	128	0	-86	-62	1.8	4	201	202	202	29750	98%	2%	0%
OLA099	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	37	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	49	0	-87	-60	24.0	3	201	201	201	29750	98%	2%	0%
OLA100	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	31	7	-87	81	2.2	7	194	202	202	29750	98%	2%	0%
OLA101	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-88	79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	27	4	-88	79	2.1	6	198	201	201	29750	98%	2%	0%
OLA102	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-76	-30	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	67	77	0	-	-	0.0	-	198	198	-	29750	98%	2%	0%
OLA103	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-62	-62	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	59	207	0	-	-	0.0	-	198	197	-	29750	98%	2%	0%
OLA104	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-65	-57	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	88	396	0	-	-	0.0	-	198	196	-	29750	98%	2%	0%

Mature State of Development - 2041 S06_SBb Kennedy Road Denison Street Steeles Avenue

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-85	-85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	177	7699	0	-85	-85	2.0	7	198	209	209	29750	98%	2%	0%
OLA002	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	60	7626	0	-	-	0.0	-	198	207	-	29750	98%	2%	0%
OLA003	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	7601	0	-	-	0.0	-	198	207	-	29750	98%	2%	0%
OLA004	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	53	7506	0	-	-	0.0	-	198	207	-	29750	98%	2%	0%
OLA005	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	7465	0	-	-	0.0	-	198	208	-	29750	98%	2%	0%
OLA006	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	7435	0	-86	-86	2.1	6	198	207	207	29750	98%	2%	0%
OLA007	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	7434	0	-	-	0.0	-	198	208	-	29750	98%	2%	0%
OLA008	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	7364	0	-87	-86	2.0	12	198	207	207	29750	98%	2%	0%
OLA009	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	20	7359	0	-	-	0.0	-	198	207	-	29750	98%	2%	0%
OLA010	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	51	7264	0	-86	-86	1.9	8	198	206	206	29750	98%	2%	0%
OLA011	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	60	7262	0	-	-	0.0	-	198	206	-	29750	98%	2%	0%
OLA012	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	49	7175	0	-86	-86	2.4	7	198	204	204	29750	98%	2%	0%
OLA013	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	58	7117	0	-	-	0.0	-	198	204	-	29750	98%	2%	0%
OLA014	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	18	7099	0	-	-	0.0	-	198	203	-	29750	98%	2%	0%
OLA015	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	22	7020	0	-	-	0.0	-	198	202	-	29750	98%	2%	0%
OLA016	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	6973	0	-	-	0.0	-	198	200	-	29750	98%	2%	0%
OLA017	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-85	-84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	42	6738	0	-85	-84	1.9	7	198	196	196	29750	98%	2%	0%
OLA018	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-85	-85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	6703	0	-85	-85	1.9	2	198	196	196	29750	98%	2%	0%
OLA019	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-84	-84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	68	6665	0	-	-	0.0	-	198	197	-	29750	98%	2%	0%
OLA020	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-85	-85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	46	6569	0	-85	-85	2.0	8	198	197	197	29750	98%	2%	0%
OLA021	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-84	-84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	76	6527	0	-	-	0.0	-	198	200	-	29750	98%	2%	0%
OLA022	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-79	-79	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	50	6379	0	-79	-79	9.0	3	198	200	200	29750	98%	2%	0%
OLA023	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	71	6339	0	-	-	0.0	-	198	199	-	29750	98%	2%	0%
OLA024	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	6160	0	-	-	0.0	-	198	193	-	29750	98%	2%	0%
OLA025	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-82	-82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	6101	0	-82	-82	1.8	5	198	191	192	29750	98%	2%	0%
OLA026	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	51	5700	0	-	-	0.0	-	198	183	-	29750	98%	2%	0%
OLA027	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-84	-84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	51	5666	0	-84	-84	2.5	26	198	185	184	29750	98%	2%	0%
OLA028	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	5624	0	-	-	0.0	-	198	182	-	29750	98%	2%	0%
OLA029	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-81	-81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	57	5609	0	-	-	0.0	-	198	185	-	29750	98%	2%	0%
OLA030	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-71	-71	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	55	5568	0	-	-	0.0	-	198	184	-	29750	98%	2%	0%
OLA031	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	5548	0	-	-	0.0	-	198	182	-	29750	98%	2%	0%
OLA032	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	59	5472	0	-	-	0.0	-	198	181	-	29750	98%	2%	0%
OLA033	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-52	-52	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	41	5487	0	-	-	0.0	-	198	182	-	29750	98%	2%	0%
OLA034	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	29	5466	0	-	-	0.0	-	198	182	-	29750	98%	2%	0%
OLA035	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	5399	0	-	-	0.0	-	198	182	-	29750	98%	2%	0%
OLA036	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-40	-40	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	41	5440	0	-	-	0.0	-	198	182	-	29750	98%	2%	0%
OLA037	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	5367	0	-	-	0.0	-	198	182	-	29750	98%	2%	0%
OLA038	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-29	-29	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	39	5401	0	-	-	0.0	-	198	182	-	29750	98%	2%	0%
OLA039	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	29	5336	0	-	-	0.0	-	198	181	-	29750	98%	2%	0%
OLA040	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-16	-16	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	39	5377	0	-	-	0.0	-	198	183	-	29750	98%	2%	0%
OLA041	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	5308	0	-	-	0.0	-	198	181	-	29750	98%	2%	0%
OLA042	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	5304	0	-	-	0.0	-	198	182	-	29750	98%	2%	0%
OLA043	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-15	-15	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	41	5363	0	-15	-15	1.8	12	198	183	182	29750	98%	2%	0%
OLA044	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	5290	0	-	-	0.0	-	198	182	-	29750	98%	2%	0%
OLA045	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	5276	0	-	-	0.0	-	198	183	-	29750	98%	2%	0%
OLA046	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-19	-19	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	5338	0	-	-	0.0	-	198	185	-	29750	98%	2%	0%
OLA047	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	5240	0	-	-	0.0	-	198	183	-	29750	98%	2%	0%
OLA048	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-40	-40	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	5263	0	-	-	0.0	-	198	184	-	29750	98%	2%	0%
OLA049	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-45	-45	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	50	5244	0	-	-	0.0	-	198	184	-	29750	98%	2%	0%
OLA050	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	25	5200	0	-	-	0.0	-	198	185	-	29750	98%	2%	0%
OLA051	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-55	-55	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	5192	0	-55	-55	2.0	11	198	184	185	29750	98%	2%	0%
OLA052	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	29	5152	0	-	-	0.0	-	198	185	-	29750	98%	2%	0%
OLA053	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-62	-62	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	5151	0	-	-	0.0	-	198	184	-	29750	98%	2%	0%
OLA054	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-69	-69	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	36	5100	0	-	-	0.0	-	198	184	-	29750	98%	2%	0%
OLA055	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	34	5091	0	-	-	0.0	-	198	185	-	29750	98%	2%	0%
OLA056	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-73	-73	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	37	5049	0	-	-	0.0	-	198	185	-	29750	98%	2%	0%
OLA057	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	34	5038	0	-	-	0.0	-	198	185	-	29750	98%	2%	0%
OLA058	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-73	-73	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	4996	0	-	-	0.0	-	198	185	-	29750	98%	2%	0%

OLA059	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	4976	0	-	-	0.0	-	198	185	-	29750	98%	2%	0%
OLA060	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-72	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	39	4945	0	-72	-72	1.8	15	198	186	186	29750	98%	2%	0%
OLA061	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	4902	0	-	-	0.0	-	198	184	-	29750	98%	2%	0%
OLA062	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-72	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	32	4889	0	-	-	0.0	-	198	186	-	29750	98%	2%	0%
OLA063	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	16	4846	0	-	-	0.0	-	198	185	-	29750	98%	2%	0%
OLA064	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-70	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	4848	0	-70	-70	1.8	6	198	186	185	29750	98%	2%	0%
OLA065	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	21	4770	0	-	-	0.0	-	198	183	-	29750	98%	2%	0%
OLA066	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	4715	0	-	-	0.0	-	198	183	-	29750	98%	2%	0%
OLA067	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-71	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	4680	0	-71	-71	1.8	14	198	181	182	29750	98%	2%	0%
OLA068	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	4635	0	-	-	0.0	-	198	180	-	29750	98%	2%	0%
OLA069	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-71	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	60	4610	0	-71	-71	1.8	31	198	181	180	29750	98%	2%	0%
OLA070	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-71	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	4561	0	-71	-71	1.8	17	198	179	178	29750	98%	2%	0%
OLA071	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	4546	0	-	-	0.0	-	198	178	-	29750	98%	2%	0%
OLA072	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	4481	0	-	-	0.0	-	198	177	-	29750	98%	2%	0%
OLA073	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-71	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	4479	0	-71	-71	1.9	10	198	177	177	29750	98%	2%	0%
OLA074	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	4400	0	-	-	0.0	-	198	176	-	29750	98%	2%	0%
OLA075	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	70	4397	0	-	-	0.0	-	198	175	-	29750	98%	2%	0%
OLA076	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	79	4333	0	-	-	0.0	-	198	175	-	29750	98%	2%	0%
OLA077	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	24	4095	0	-	-	0.0	-	198	174	-	29750	98%	2%	0%
OLA078	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-82	-82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	72	4090	0	-82	-82	6.0	3	198	172	172	29750	98%	2%	0%
OLA079	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	35	4014	0	-	-	0.0	-	198	175	-	29750	98%	2%	0%
OLA080	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-74	-74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	33	4018	0	-	-	0.0	-	198	174	-	29750	98%	2%	0%
OLA081	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	54	3964	0	-	-	0.0	-	198	175	-	29750	98%	2%	0%
OLA082	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-66	-65	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	3692	0	-66	-65	1.8	15	198	181	181	29750	98%	2%	0%
OLA083	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-69	-69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	3645	0	-69	-69	2.0	13	198	182	182	29750	98%	2%	0%
OLA084	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-80	-80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	50	3593	0	-80	-80	1.6	18	198	183	182	29750	98%	2%	0%
OLA085	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	39	3480	0	-	-	0.0	-	198	182	-	29750	98%	2%	0%
OLA086	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	82	2102	0	-	-	0.0	-	198	193	-	29750	98%	2%	0%
OLA087	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	66	2060	0	-	-	0.0	-	198	194	-	29750	98%	2%	0%
OLA088	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-72	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	88	2044	0	-	-	0.0	-	198	194	-	29750	98%	2%	0%
OLA089	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-72	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	1817	0	-	-	0.0	-	198	205	-	29750	98%	2%	0%
OLA090	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-70	-69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	83	1806	0	-	-	0.0	-	198	205	-	29750	98%	2%	0%
OLA091	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-67	-65	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	55	1444	0	-	-	0.0	-	198	203	-	29750	98%	2%	0%
OLA092	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-66	-63	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	1309	0	-66	-63	3.0	3	198	203	203	29750	98%	2%	0%
OLA093	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-65	-63	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	48	1223	0	-	-	0.0	-	198	202	-	29750	98%	2%	0%
OLA094	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-77	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	1074	0	-	-	0.0	-	198	202	-	29750	98%	2%	0%
OLA095	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-78	-74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	78	1014	0	-78	-74	6.0	3	198	202	202	29750	98%	2%	0%
OLA096	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	82	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	87	934	0	-	-	0.0	-	198	202	-	29750	98%	2%	0%
OLA097	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	37	931	0	-90	-88	1.8	5	198	202	201	29750	98%	2%	0%
OLA098	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	895	0	-90	-86	1.8	4	198	202	202	29750	98%	2%	0%
OLA099	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	746	0	-90	-87	24.0	3	198	201	201	29750	98%	2%	0%
OLA100	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	76	81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	245	0	76	81	2.2	7	198	202	202	29750	98%	2%	0%
OLA101	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	74	79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	173	0	74	79	2.1	6	198	201	201	29750	98%	2%	0%
OLA102	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-30	61	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	67	67	0	50	61	6.0	3	197	198	198	29750	98%	2%	0%
OLA103	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-62	37	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	59	59	0	-	-	0.0	-	196	197	-	29750	98%	2%	0%
OLA104	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-65	-57	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	88	168	0	-	-	0.0	-	196	196	-	29750	98%	2%	0%

Mature State of Development - 2041 S06_SBc Kennedy Road Denison Street Steeles Avenue

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	-85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	177	7929	0	-86	-85	2.0	7	196	209	209	29750	98%	2%	0%
OLA002	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	60	7855	0	-	-	0.0	-	196	207	-	29750	98%	2%	0%
OLA003	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	7830	0	-	-	0.0	-	196	207	-	29750	98%	2%	0%
OLA004	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	53	7734	0	-	-	0.0	-	196	207	-	29750	98%	2%	0%
OLA005	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	7694	0	-	-	0.0	-	196	208	-	29750	98%	2%	0%
OLA006	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	7664	0	-86	-86	2.1	6	196	207	207	29750	98%	2%	0%
OLA007	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	7662	0	-	-	0.0	-	196	208	-	29750	98%	2%	0%
OLA008	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	7593	0	-87	-86	2.0	12	196	207	207	29750	98%	2%	0%
OLA009	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	20	7587	0	-	-	0.0	-	196	207	-	29750	98%	2%	0%
OLA010	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	51	7493	0	-86	-86	1.9	8	196	206	206	29750	98%	2%	0%
OLA011	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	60	7491	0	-	-	0.0	-	196	206	-	29750	98%	2%	0%
OLA012	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	49	7404	0	-86	-86	2.4	7	196	204	204	29750	98%	2%	0%
OLA013	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	-86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	58	7346	0	-	-	0.0	-	196	204	-	29750	98%	2%	0%
OLA014	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	18	7327	0	-	-	0.0	-	196	203	-	29750	98%	2%	0%
OLA015	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	22	7248	0	-	-	0.0	-	196	202	-	29750	98%	2%	0%
OLA016	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	62	7201	0	-	-	0.0	-	196	200	-	29750	98%	2%	0%
OLA017	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-85	-84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	42	6967	0	-85	-84	1.9	7	196	196	196	29750	98%	2%	0%
OLA018	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-85	-85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	6932	0	-85	-85	1.9	2	196	196	196	29750	98%	2%	0%
OLA019	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-84	-84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	68	6894	0	-	-	0.0	-	196	197	-	29750	98%	2%	0%
OLA020	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-85	-85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	46	6799	0	-85	-85	2.0	8	196	197	197	29750	98%	2%	0%
OLA021	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-84	-84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	76	6756	0	-	-	0.0	-	196	200	-	29750	98%	2%	0%
OLA022	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-80	-79	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	50	6609	0	-80	-79	9.0	3	196	200	200	29750	98%	2%	0%
OLA023	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	71	6568	0	-	-	0.0	-	196	199	-	29750	98%	2%	0%
OLA024	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	28	6389	0	-	-	0.0	-	196	193	-	29750	98%	2%	0%
OLA025	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-83	-82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	6330	0	-83	-82	1.8	5	196	191	192	29750	98%	2%	0%
OLA026	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	51	5929	0	-	-	0.0	-	196	183	-	29750	98%	2%	0%
OLA027	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-85	-84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	51	5896	0	-85	-84	2.5	26	196	185	184	29750	98%	2%	0%
OLA028	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	5854	0	-	-	0.0	-	196	182	-	29750	98%	2%	0%
OLA029	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-81	-81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	57	5838	0	-	-	0.0	-	196	185	-	29750	98%	2%	0%
OLA030	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-71	-71	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	55	5797	0	-	-	0.0	-	196	184	-	29750	98%	2%	0%
OLA031	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	5777	0	-	-	0.0	-	196	182	-	29750	98%	2%	0%
OLA032	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	59	5701	0	-	-	0.0	-	196	181	-	29750	98%	2%	0%
OLA033	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-53	-52	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	41	5717	0	-	-	0.0	-	196	182	-	29750	98%	2%	0%
OLA034	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	29	5696	0	-	-	0.0	-	196	182	-	29750	98%	2%	0%
OLA035	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	5629	0	-	-	0.0	-	196	182	-	29750	98%	2%	0%
OLA036	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-40	-40	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	41	5670	0	-	-	0.0	-	196	182	-	29750	98%	2%	0%
OLA037	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	5597	0	-	-	0.0	-	196	182	-	29750	98%	2%	0%
OLA038	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-30	-29	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	39	5631	0	-	-	0.0	-	196	182	-	29750	98%	2%	0%
OLA039	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	29	5566	0	-	-	0.0	-	196	181	-	29750	98%	2%	0%
OLA040	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-17	-16	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	39	5607	0	-	-	0.0	-	196	183	-	29750	98%	2%	0%
OLA041	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	5539	0	-	-	0.0	-	196	181	-	29750	98%	2%	0%
OLA042	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	5534	0	-	-	0.0	-	196	182	-	29750	98%	2%	0%
OLA043	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-16	-15	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	41	5594	0	-16	-15	1.8	12	196	183	182	29750	98%	2%	0%
OLA044	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	5521	0	-	-	0.0	-	196	182	-	29750	98%	2%	0%
OLA045	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	5507	0	-	-	0.0	-	196	183	-	29750	98%	2%	0%
OLA046	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-20	-19	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	5569	0	-	-	0.0	-	196	185	-	29750	98%	2%	0%
OLA047	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	5471	0	-	-	0.0	-	196	183	-	29750	98%	2%	0%
OLA048	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-41	-40	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	5494	0	-41	-40	2.0	10	196	184	184	29750	98%	2%	0%
OLA049	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-46	-45	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	50	5475	0	-46	-45	2.0	25	196	184	185	29750	98%	2%	0%
OLA050	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	25	5431	0	-	-	0.0	-	196	185	-	29750	98%	2%	0%
OLA051	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-56	-55	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	5423	0	-56	-55	2.0	11	196	184	185	29750	98%	2%	0%
OLA052	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	29	5383	0	-	-	0.0	-	196	185	-	29750	98%	2%	0%
OLA053	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-63	-62	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	43	5382	0	-63	-62	2.0	19	196	184	185	29750	98%	2%	0%
OLA054	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-70	-69	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	36	5331	0	-70	-69	2.0	12	196	184	186	29750	98%	2%	0%
OLA055	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	34	5322	0	-	-	0.0	-	196	185	-	29750	98%	2%	0%
OLA056	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-73	-73	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	37	5280	0	-73	-73	2.0	13	196	185	186	29750	98%	2%	0%
OLA057	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	34	5269	0	-	-	0.0	-	196	185	-	29750	98%	2%	0%
OLA058	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-74	-73	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	5227	0	-74	-73	2.0	10	196	185	186	29750	98%	2%	0%

OLA059	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	5207	0	-	-	0.0	-	196	185	-	29750	98%	2%	0%
OLA060	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	39	5176	0	-73	-72	1.8	15	196	186	186	29750	98%	2%	0%
OLA061	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	5133	0	-	-	0.0	-	196	184	-	29750	98%	2%	0%
OLA062	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	32	5120	0	-73	-72	1.8	7	196	186	185	29750	98%	2%	0%
OLA063	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	16	5077	0	-	-	0.0	-	196	185	-	29750	98%	2%	0%
OLA064	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-71	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	5079	0	-71	-70	1.8	6	196	186	185	29750	98%	2%	0%
OLA065	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	21	5001	0	-	-	0.0	-	196	183	-	29750	98%	2%	0%
OLA066	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	33	4946	0	-	-	0.0	-	196	183	-	29750	98%	2%	0%
OLA067	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-72	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	4911	0	-72	-71	1.8	14	196	181	182	29750	98%	2%	0%
OLA068	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	4865	0	-	-	0.0	-	196	180	-	29750	98%	2%	0%
OLA069	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-72	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	60	4841	0	-72	-71	1.8	31	196	181	180	29750	98%	2%	0%
OLA070	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-72	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	4792	0	-72	-71	1.8	17	196	179	178	29750	98%	2%	0%
OLA071	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	4777	0	-	-	0.0	-	196	178	-	29750	98%	2%	0%
OLA072	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	4712	0	-	-	0.0	-	196	177	-	29750	98%	2%	0%
OLA073	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-72	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	4710	0	-72	-71	1.9	10	196	177	177	29750	98%	2%	0%
OLA074	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	4631	0	-	-	0.0	-	196	176	-	29750	98%	2%	0%
OLA075	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-82	-81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	70	4627	0	-	-	0.0	-	196	175	-	29750	98%	2%	0%
OLA076	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	79	4563	0	-	-	0.0	-	196	175	-	29750	98%	2%	0%
OLA077	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	24	4326	0	-	-	0.0	-	196	174	-	29750	98%	2%	0%
OLA078	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-83	-82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	72	4320	0	-83	-82	6.0	3	196	172	172	29750	98%	2%	0%
OLA079	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	35	4245	0	-	-	0.0	-	196	175	-	29750	98%	2%	0%
OLA080	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	33	4248	0	-	-	0.0	-	196	174	-	29750	98%	2%	0%
OLA081	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	54	4194	0	-	-	0.0	-	196	175	-	29750	98%	2%	0%
OLA082	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-67	-66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	3922	0	-67	-66	1.8	15	196	181	181	29750	98%	2%	0%
OLA083	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-71	-69	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	3875	0	-71	-69	2.0	13	196	182	182	29750	98%	2%	0%
OLA084	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	50	3823	0	-81	-80	1.6	18	196	183	182	29750	98%	2%	0%
OLA085	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	39	3710	0	-	-	0.0	-	196	182	-	29750	98%	2%	0%
OLA086	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	82	2332	0	-	-	0.0	-	196	193	-	29750	98%	2%	0%
OLA087	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-75	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	66	2291	0	-	-	0.0	-	196	194	-	29750	98%	2%	0%
OLA088	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-74	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	88	2273	0	-	-	0.0	-	196	194	-	29750	98%	2%	0%
OLA089	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-74	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	2047	0	-	-	0.0	-	196	205	-	29750	98%	2%	0%
OLA090	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-70	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	83	2035	0	-	-	0.0	-	196	205	-	29750	98%	2%	0%
OLA091	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-71	-67	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	55	1671	0	-	-	0.0	-	196	203	-	29750	98%	2%	0%
OLA092	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-70	-66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	1533	0	-70	-66	3.0	3	196	203	203	29750	98%	2%	0%
OLA093	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-70	-65	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	48	1446	0	-	-	0.0	-	196	202	-	29750	98%	2%	0%
OLA094	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-82	-77	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	58	1292	0	-	-	0.0	-	196	202	-	29750	98%	2%	0%
OLA095	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-84	-78	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	78	1230	0	-80	-78	6.0	3	196	202	202	29750	98%	2%	0%
OLA096	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	77	82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	87	1160	0	-	-	0.0	-	196	202	-	29750	98%	2%	0%
OLA097	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	37	1150	0	-	-	0.0	-	196	202	-	29750	98%	2%	0%
OLA098	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	61	1112	0	-	-	0.0	-	196	202	-	29750	98%	2%	0%
OLA099	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	49	964	0	-	-	0.0	-	196	201	-	29750	98%	2%	0%
OLA100	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	68	76	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	474	0	68	76	2.2	7	196	202	202	29750	98%	2%	0%
OLA101	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	66	74	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	403	0	66	74	2.1	6	196	201	201	29750	98%	2%	0%
OLA102	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	61	62	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	67	217	0	61	62	6.0	3	196	198	198	29750	98%	2%	0%
OLA103	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	37	72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	59	74	0	65	72	6.0	3	196	197	197	29750	98%	2%	0%
OLA104	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-57	51	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	88	88	0	40	51	6.0	3	194	196	196	29750	98%	2%	0%

Mature State of Development - 2041 AS01 Major Mackenzie Drive @ Kennedy Road

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode		Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography		Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface		Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA001	81	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	125	125	0	-90	85	2.0	10	209	209	209	14077	97%	2%	2%
OLA002	81	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	177	177	0	-90	85	2.0	6	206	207	207	14077	97%	2%	2%
OLA003	81	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	187	187	0	-89	85	6.0	3	204	207	207	14077	97%	2%	2%
OLA004	81	0.0%	2	Manual	1	Typical Asphalt or Concrete	-88	83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	278	278	0	0	83	6.0	3	204	207	207	14077	97%	2%	2%
OLA005	81	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	322	322	0	-87	83	6.0	3	204	208	208	14077	97%	2%	2%
OLA006	81	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	364	364	0	-86	82	6.0	14	205	207	207	14077	97%	2%	2%
OLA007	81	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	353	353	0	-86	82	2.1	4	204	208	207	14077	97%	2%	2%
OLA008	81	0.0%	2	Manual	1	Typical Asphalt or Concrete	-85	81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	435	435	0	-85	55	6.0	3	205	207	207	14077	97%	2%	2%
OLA009	81	0.0%	2	Manual	1	Typical Asphalt or Concrete	-85	81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	430	430	0	-85	81	6.0	3	204	207	207	14077	97%	2%	2%

Mature State of Development - 2041 AS02 16th Avenue @ Kennedy Road

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode		Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography		Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface		Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA024	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-84	81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	415	415	0	-84	-30	3.0	3	184	193	193	32128	96%	2%	2%
OLA025	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-85	83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	341	341	0	-85	83	6.0	3	186	191	191	32128	96%	2%	2%
OLA026	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	41	0	-	-	0.0	-	183	183	-	32128	96%	2%	2%
OLA027	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	93	93	0	20	88	6.0	3	184	185	185	32128	96%	2%	2%
OLA028	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	120	120	0	-90	-40	6.0	3	184	182	182	32128	96%	2%	2%
OLA029	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-88	87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	153	153	0	0	87	6.0	3	184	185	185	32128	96%	2%	2%
OLA030	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-88	86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	195	195	0	0	45	6.0	14	184	184	184	32128	96%	2%	2%
OLA031	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	196	196	0	-90	0	6.0	3	184	182	182	32128	96%	2%	2%
OLA032	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-88	83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	272	272	0	-88	0	6.0	3	184	181	181	32128	96%	2%	2%
OLA033	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	279	279	0	30	85	6.0	3	185	182	182	32128	96%	2%	2%
OLA034	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-88	83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	285	285	0	-	-	0.0	-	184	182	-	32128	96%	2%	2%
OLA035	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-85	83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	360	360	0	-75	40	6.0	3	184	182	182	32128	96%	2%	2%
OLA036	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-85	84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	335	335	0	0	84	6.0	3	185	182	182	32128	96%	2%	2%
OLA037	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-84	83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	403	403	0	-	-	0.0	-	185	182	-	32128	96%	2%	2%
OLA038	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-84	83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	385	385	0	-15	83	6.0	3	186	182	182	32128	96%	2%	2%
OLA039	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-83	82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	443	443	0	-	-	0.0	-	185	181	-	32128	96%	2%	2%
OLA040	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-84	82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	422	422	0	-15	82	6.0	3	187	183	183	32128	96%	2%	2%
OLA041	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-83	81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	484	484	0	-83	-55	6.0	3	186	181	181	32128	96%	2%	2%
OLA042	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-83	81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	496	496	0	-	-	0.0	-	186	182	-	32128	96%	2%	2%
OLA043	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-84	81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	449	449	0	-30	81	6.0	3	187	183	183	32128	96%	2%	2%
OLA046	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-83	80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	499	499	0	-	-	0.0	-	188	185	-	32128	96%	2%	2%

Mature State of Development - 2041 AS03 Highway 7 @ Kennedy Road

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode		Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography		Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface		Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA075	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	480	480	0	-81	0	6.0	3	173	175	175	41318	92%	4%	4%
OLA076	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-82	83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	415	415	0	-82	-25	6.0	3	174	175	175	41318	92%	4%	4%
OLA077	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	234	234	0	-35	80	6.0	3	174	174	174	41318	92%	4%	4%
OLA078	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-88	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	194	194	0	-15	85	6.0	3	174	172	172	41318	92%	4%	4%
OLA079	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	157	157	0	30	86	6.0	50	174	175	175	41318	92%	4%	4%
OLA080	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	136	136	0	-89	17	1.7	30	174	174	174	41318	92%	4%	4%
OLA081	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	112	112	0	-20	87	3.0	26	175	175	175	41318	92%	4%	4%
OLA082	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-88	84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	225	225	0	30	84	6.0	3	174	181	181	41318	92%	4%	4%
OLA083	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	271	271	0	-87	5	1.8	50	174	182	182	41318	92%	4%	4%
OLA084	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-87	82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	325	325	0	-87	6	1.8	56	174	183	182	41318	92%	4%	4%
OLA085	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-85	80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	427	427	0	-85	35	2.6	8	174	182	181	41318	92%	4%	4%

Mature State of Development - 2041 AS04 Highway 407 @ Kennedy Road

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode		Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)		Topography	Wood Depth	No of Row of Houses	Density of 1st Row		Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA086	100	0.0%	2	Manual	1 Typical Asphalt or Concrete	-80	82	2	Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	449	449	0	-70	30	2.0	19	180	193	194	15340	85%	9%	7%
OLA087	100	0.0%	2	Manual	1 Typical Asphalt or Concrete	-80	82	2	Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	485	485	0	-30	30	2.0	55	180	194	194	15340	85%	9%	7%

Mature State of Development - 2041 AS05 14th Avenue @ Kennedy Road

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode		Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)		Topography	Wood Depth	No of Row of Houses	Density of 1st Row		Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA086	69	0.0%	2	Manual	1 Typical Asphalt or Concrete	-85	80	2	Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	337	337	0	-85	15	6.0	3	204	193	193	30145	94%	3%	3%
OLA087	69	0.0%	2	Manual	1 Typical Asphalt or Concrete	-85	81	2	Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	301	301	0	-85	-30	6.0	3	204	194	194	30145	94%	3%	3%
OLA088	69	0.0%	2	Manual	1 Typical Asphalt or Concrete	-86	82	2	Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	273	273	0	-86	-20	6.0	3	204	194	194	30145	94%	3%	3%
OLA089	69	0.0%	2	Manual	1 Typical Asphalt or Concrete	-90	88	2	Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	52	52	0	45	88	6.0	3	204	205	205	30145	94%	3%	3%
OLA090	69	0.0%	2	Manual	1 Typical Asphalt or Concrete	-90	89	2	Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	22	22	0	-90	-50	6.0	3	204	205	205	30145	94%	3%	3%
OLA091	69	0.0%	2	Manual	1 Typical Asphalt or Concrete	-81	84	2	Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	348	348	0	-81	-40	6.0	3	204	203	203	30145	94%	3%	3%
OLA092	69	0.0%	2	Manual	1 Typical Asphalt or Concrete	-77	81	2	Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	491	491	0	-	-	0.0	-	204	203	-	30145	94%	3%	3%

Mature State of Development - 2041 AS06 Denison Street @ Kennedy Road

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode		Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)		Topography	Wood Depth	No of Row of Houses	Density of 1st Row		Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA093	69	0.0%	2	Manual	1 Typical Asphalt or Concrete	-90	42	2	Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	440	440	0	-65	10	6.0	29	201	202	201	6929	99%	1%	0%
OLA094	69	0.0%	2	Manual	1 Typical Asphalt or Concrete	-90	52	2	Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	292	292	0	-	-	0.0	-	201	202	-	6929	99%	1%	0%
OLA095	69	0.0%	2	Manual	1 Typical Asphalt or Concrete	-90	55	2	Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	230	230	0	10	55	6.0	3	201	202	202	6929	99%	1%	0%
OLA096	69	0.0%	2	Manual	1 Typical Asphalt or Concrete	-90	66	2	Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	149	149	0	-	-	0.0	-	202	202	-	6929	99%	1%	0%
OLA097	69	0.0%	2	Manual	1 Typical Asphalt or Concrete	-90	58	2	Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	149	149	0	-90	58	1.8	5	201	202	201	6929	99%	1%	0%
OLA098	69	0.0%	2	Manual	1 Typical Asphalt or Concrete	-90	66	2	Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	112	112	0	-90	66	1.8	4	201	202	202	6929	99%	1%	0%
OLA099	69	0.0%	2	Manual	1 Typical Asphalt or Concrete	-90	74	2	Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	37	37	0	69	74	24.0	26	201	201	201	6929	99%	1%	0%

Mature State of Development - 2041 AS07 Steeles Avenue @ Kennedy Road

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode		Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)		Topography	Wood Depth	No of Row of Houses	Density of 1st Row		Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA102	50	0.0%	2	Manual	1 Typical Asphalt or Concrete	-81	81	2	Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	464	464	0	-15	81	6.0	3	193	198	198	43268	99%	0%	0%
OLA103	50	0.0%	2	Manual	1 Typical Asphalt or Concrete	-84	84	2	Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	301	301	0	-10	84	6.0	3	193	197	197	43268	99%	0%	0%
OLA104	50	0.0%	2	Manual	1 Typical Asphalt or Concrete	-88	88	2	Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	108	108	0	-40	40	6.0	3	193	196	196	43268	99%	0%	0%

Additional Barrier Investigation - 2.2 m OLA026

Road	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
S01_NB	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	-36	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	66	80	0	-88	-36	2.2	38	184	183	184	27922	96%	2%	2%
S02_NBa	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-36	55	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	66	66	0	-36	55	2.2	38	184	183	184	27432	95%	3%	3%
S02_NBa	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	55	66	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	66	66	0	55	66	6.0	3	184	183	183	27432	95%	3%	3%
S01_SB	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-42	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	51	69	0	-89	-42	2.2	38	184	183	184	20376	96%	2%	2%
S02_SBa	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-42	55	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	51	51	0	-42	55	2.2	38	184	183	184	29631	95%	3%	3%
S02_SBa	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	55	70	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	51	51	0	55	70	6.0	3	184	183	183	29631	95%	3%	3%
AS02	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	41	0	-80	87	2.2	38	183	183	184	32128	96%	2%	2%

Additional Barrier Investigation - 2.2 m OLA027

Road	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
S02_NBa	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	-13	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	37	37	0	-86	-13	2.5	26	184	185	184	27432	95%	3%	3%
S02_NBa	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-13	68	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	37	37	0	-13	35	2.2	26	184	185	184	27432	95%	3%	3%
S02_SBa	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-81	-13	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	51	51	0	-81	-13	2.5	26	184	185	184	29631	95%	3%	3%
S02_SBa	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-13	60	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	51	51	0	-13	35	2.2	26	184	185	184	29631	95%	3%	3%
AS02	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	20	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	93	93	0	-90	-55	2.2	26	184	185	184	32128	96%	2%	2%
AS02	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	20	88	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	93	93	0	20	88	6.0	3	184	185	185	32128	96%	2%	2%

Additional Barrier Investigation - 2.2 m OLA034

Road	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
S02_NBb	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-29	30	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	44	0	-20	30	2.2	18	181	182	182	27432	95%	3%	3%
S02_NBb	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	30	59	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	44	0	30	59	6.0	3	181	182	182	27432	95%	3%	3%
S02_SBb	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-41	30	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	29	29	0	-20	30	2.2	18	181	182	182	29631	95%	3%	3%
S02_SBb	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	30	61	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	29	29	0	30	61	6.0	3	181	182	182	29631	95%	3%	3%

Additional Barrier Investigation - 2.2 m OLA035

Road	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
S02_NBb	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-57	-15	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	47	0	-57	-15	6.0	3	181	182	182	27432	95%	3%	3%
S02_NBb	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-15	63	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	47	0	-15	63	2.2	21	181	182	182	27432	95%	3%	3%
S02_SBb	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-65	-15	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	31	0	-65	-15	6.0	3	181	182	182	29631	95%	3%	3%
S02_SBb	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-15	66	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	31	0	-15	66	2.2	21	181	182	182	29631	95%	3%	3%

Additional Barrier Investigation - 2.2 m OLA042

Road	Posted Speed Limit (km/hr)	Road Grade (%)		Road Grade Mode		Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)		Topography		Wood Depth	No of Row of Houses	Density of 1st Row		Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
S02_NBb	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-62	35	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	42	0	-62	35	2.2	16	182	182	182	27432	95%	3%	3%
S02_NBb	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	35	45	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	42	0	35	45	6.0	3	182	182	185	27432	95%	3%	3%
S02_SBb	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-65	35	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	27	0	-65	35	2.2	16	182	182	182	29631	95%	3%	3%
S02_SBb	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	35	57	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	27	0	35	57	6.0	3	182	182	185	29631	95%	3%	3%

Additional Barrier Investigation - 2.2 m OLA043

Road	Posted Speed Limit (km/hr)	Road Grade (%)		Road Grade Mode		Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)		Topography		Wood Depth	No of Row of Houses	Density of 1st Row		Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
S02_NBb	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-37	-4	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	26	0	-37	-4	1.8	12	182	183	182	27432	95%	3%	3%
S02_NBb	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-4	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	26	0	-4	90	2.2	15	182	183	182	27432	95%	3%	3%
S02_SBb	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-25	-4	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	41	41	0	-25	-4	1.8	12	182	183	182	29631	95%	3%	3%
S02_SBb	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-4	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	41	41	0	-4	90	2.2	15	182	183	182	29631	95%	3%	3%

Additional Barrier Investigation - 2.2 m OLA044

Road	Posted Speed Limit (km/hr)	Road Grade (%)		Road Grade Mode		Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)		Topography		Wood Depth	No of Row of Houses	Density of 1st Row		Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
S02_NBc	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-20	5	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	41	41	0	-20	5	1.8	9	182	182	182	27432	95%	3%	3%
S02_NBc	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	5	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	41	41	0	5	90	2.2	15	182	182	182	27432	95%	3%	3%
S02_SBc	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-31	5	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	26	0	-31	5	1.8	9	182	182	182	29631	95%	3%	3%
S02_SBc	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	5	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	26	0	5	90	2.2	15	182	182	182	29631	95%	3%	3%

Additional Barrier Investigation - 2.2 m OLA046

Road	Posted Speed Limit (km/hr)	Road Grade (%)		Road Grade Mode		Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)		Topography		Wood Depth	No of Row of Houses	Density of 1st Row		Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
S02_NBc	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-65	-45	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	27	0	-65	-45	6.0	3	183	185	185	27432	95%	3%	3%
S02_NBc	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-45	67	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	27	0	-45	30	2.2	12	183	185	184	27432	95%	3%	3%
S02_SBc	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-61	-45	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	43	0	-61	-45	6.0	3	182	185	185	29631	95%	3%	3%
S02_SBc	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-45	57	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	43	43	0	-45	30	2.2	12	182	185	184	29631	95%	3%	3%

Additional Barrier Investigation - 2.2 m OLA059

Road	Posted Speed Limit (km/hr)	Road Grade (%)		Road Grade Mode		Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)		Topography		Wood Depth	No of Row of Houses	Density of 1st Row		Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
S02_NBd	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	64	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	42	0	-65	64	2.2	18	185	185	186	27432	95%	3%	3%
S02_NBd	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	64	86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	42	0	67	86	2.2	18	185	185	186	27432	95%	3%	3%
S02_SBd	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-88	64	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	31	0	-61	64	2.2	18	185	185	186	29631	95%	3%	3%
S02_SBd	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	64	87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	31	0	67	87	2.2	18	185	185	186	29631	95%	3%	3%

Additional Barrier Investigation - 2.2 m OLA061

Road	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
S02_NBd	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	-58	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	45	0	-86	-58	2.2	21	185	184	185	27432	95%	3%	3%
S02_NBd	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-58	85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	45	0	-52	85	2.2	21	185	184	185	27432	95%	3%	3%
S02_SBd	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	-58	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	33	33	0	-88	-58	2.2	21	185	184	185	29631	95%	3%	3%
S02_SBd	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-58	87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	33	33	0	-52	87	2.2	21	185	184	185	29631	95%	3%	3%

Additional Barrier Investigation - 2.2 m OLA065

Road	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
S02_NBd	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	63	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	34	0	-89	63	2.2	9	183	183	184	27432	95%	3%	3%
S02_NBd	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	63	80	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	34	0	68	80	2.2	9	183	183	184	27432	95%	3%	3%
S02_NBd	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	80	85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	34	34	0	80	85	1.8	9	183	183	184	27432	95%	3%	3%
S02_SBd	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	63	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	21	21	0	-90	63	2.2	9	183	183	184	29631	95%	3%	3%
S02_SBd	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	63	80	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	21	21	0	68	80	2.2	9	183	183	184	29631	95%	3%	3%
S02_SBd	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	80	87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	21	21	0	80	87	1.8	9	183	183	184	29631	95%	3%	3%

Additional Barrier Investigation - 2.2 m OLA066

Road	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
S02_NBd	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	-61	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	47	0	-88	-61	2.2	9	183	183	184	27432	95%	3%	3%
S02_NBd	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-61	18	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	47	0	-56	18	2.2	9	183	183	184	27432	95%	3%	3%
S02_NBd	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	18	25	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	47	0	18	25	1.8	9	183	183	184	27432	95%	3%	3%
S02_NBd	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	25	82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	47	47	0	25	82	6.0	3	183	183	183	27432	95%	3%	3%
S02_SBd	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-61	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	33	33	0	-89	-61	2.2	9	183	183	184	29631	95%	3%	3%
S02_SBd	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-61	18	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	33	33	0	-56	18	2.2	9	183	183	184	29631	95%	3%	3%
S02_SBd	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	18	25	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	33	33	0	18	25	1.8	9	183	183	184	29631	95%	3%	3%
S02_SBd	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	25	85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	33	33	0	25	85	6.0	3	183	183	183	29631	95%	3%	3%

Additional Barrier Investigation - 2.2 m OLA068

Road	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
S02_NBd	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-35	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	44	44	0	-89	-35	6.0	3	181	180	180	27432	95%	3%	3%
S02_NBd	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-35	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	44	44	0	-35	81	2.2	15	181	180	181	27432	95%	3%	3%
S02_NBe	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	44	260	0	81	90	2.2	15	176	180	181	27432	95%	3%	3%
S02_SBd	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-35	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	29	29	0	-90	-35	6.0	3	181	180	180	29631	95%	3%	3%
S02_SBd	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-35	84	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	29	29	0	-35	84	2.2	15	181	180	181	29631	95%	3%	3%
S02_SBe	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	84	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	29	257	0	84	90	2.2	15	181	180	181	29631	95%	3%	3%

Additional Barrier Investigation - 2.2 m OLA077

Road	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode		Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
S02_NBe	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-78	-60	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	35	0	-70	-60	2.2	10	172	174	173	27432	95%	3%	3%
S02_NBe	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-60	-47	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	35	0	-60	-47	2.2	10	172	174	173	27432	95%	3%	3%
S02_NBe	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-47	18	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	35	0	-47	18	2.2	10	172	174	173	27432	95%	3%	3%
S02_NBf	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	18	30	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	37	0	18	30	2.2	10	172	174	173	27432	95%	3%	3%
S02_NBf	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	30	70	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	35	37	0	30	70	6.0	3	172	174	174	27432	95%	3%	3%
S02_SBe	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	-60	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	24	24	0	-70	-60	2.2	10	172	174	173	29631	95%	3%	3%
S02_SBe	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-60	-47	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	24	24	0	-60	-47	2.2	10	172	174	173	29631	95%	3%	3%
S02_SBe	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-47	27	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	24	24	0	-47	27	2.2	10	172	174	173	29631	95%	3%	3%
S02_SBf	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	27	30	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	24	26	0	27	30	2.2	10	172	174	173	29631	95%	3%	3%
S02_SBf	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	30	75	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	24	26	0	30	75	6.0	3	172	174	174	29631	95%	3%	3%

Additional Barrier Investigation - 2.2 m OLA079

Road	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode		Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
S02_NBf	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-48	-40	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	46	46	0	-48	-40	6.0	3	173	175	175	27432	95%	3%	3%
S02_NBf	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-40	70	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	46	46	0	-40	50	2.2	22	173	175	174	27432	95%	3%	3%
S02_SBf	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-56	-40	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	35	0	-56	-40	6.0	3	173	175	175	29631	95%	3%	3%
S02_SBf	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-40	77	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	35	35	0	-40	50	2.2	22	173	175	174	29631	95%	3%	3%
AS03	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	30	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	157	157	0	-89	-30	2.2	22	174	175	174	41318	92%	4%	4%
AS03	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	30	86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	157	157	0	30	86	6.0	50	174	175	175	41318	92%	4%	4%

Additional Barrier Investigation - 2.2 m OLA080

Road	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode		Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
S02_NBf	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-88	-79	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	22	22	0	-88	-79	1.7	30	173	174	174	27432	95%	3%	3%
S02_NBf	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-79	78	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	22	22	0	-79	78	2.2	9	173	174	173	27432	95%	3%	3%
S02_SBf	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-79	-79	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	33	0	-79	-79	1.7	30	173	174	174	29631	95%	3%	3%
S02_SBf	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-79	71	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	33	33	0	-79	71	2.2	9	173	174	173	29631	95%	3%	3%
AS03	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	17	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	136	136	0	-89	17	1.7	30	174	174	174	41318	92%	4%	4%
AS03	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	17	86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	136	136	0	17	86	2.2	9	174	174	173	41318	92%	4%	4%

Additional Barrier Investigation - 2.2 m OLA086

Road	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode		Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
S04_NB	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-80	-43	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	66	66	0	-55	-46	2.2	55	190	193	190	28590	93%	4%	3%
S04_NB	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-43	13	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	66	66	0	-43	13	2.2	55	190	193	190	28590	93%	4%	3%
S04_NB	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	13	72	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	66	66	0	13	72	2.0	19	190	193	194	28590	93%	4%	3%
S04_SB	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-78	-43	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	82	82	0	-55	-46	2.2	55	190	193	190	31503	93%	4%	3%
S04_SB	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-43	13	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	82	82	0	-43	13	2.2	55	190	193	190	31503	93%	4%	3%
S04_SB	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	13	71	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	82	82	0	13	71	2.0	19	190	193	194	31503	93%	4%	3%

Additional Barrier Investigation - 2.2 m OLA087

Road	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
S04_NB	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-81	-19	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	50	50	0	-55	-26	2.2	39	191	194	192	28590	93%	4%	3%
S04_NB	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-19	53	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	50	50	0	-19	53	2.2	39	191	194	192	28590	93%	4%	3%
S04_NB	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	53	76	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	50	50	0	53	76	2.0	55	191	194	194	28590	93%	4%	3%
S04_SB	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-79	-19	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	66	66	0	-55	-26	2.2	39	192	194	192	31503	93%	4%	3%
S04_SB	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-19	53	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	66	66	0	-19	53	2.2	39	192	194	192	31503	93%	4%	3%
S04_SB	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	53	74	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	66	66	0	53	74	2.0	55	192	194	194	31503	93%	4%	3%

Additional Barrier Investigation - 2.2 m OLA088

Road	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
S04_NB	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-76	5	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	73	73	0	-15	5	2.2	62	193	194	193	28590	93%	4%	3%
S04_NB	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	5	40	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	73	73	0	12	40	2.2	62	193	194	193	28590	93%	4%	3%
S04_NB	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	40	74	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	73	73	0	40	74	6.0	21	193	194	194	28590	93%	4%	3%
S04_SB	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-73	5	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	88	88	0	-15	5	2.2	62	193	194	193	31503	93%	4%	3%
S04_SB	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	5	40	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	88	88	0	12	40	2.2	62	193	194	193	31503	93%	4%	3%
S04_SB	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	40	73	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	88	88	0	40	73	6.0	21	193	194	194	31503	93%	4%	3%

Additional Barrier Investigation - 2.2 m OLA092

Road	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
S05_NBa	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-80	-30	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	30	0	-80	-30	3.0	3	202	203	203	25573	93%	4%	3%
S05_NBa	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-30	87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	30	0	-30	5	2.2	15	202	203	203	25573	93%	4%	3%
S05_SBa	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-77	-30	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	45	0	-77	-30	3.0	3	202	203	203	34069	93%	4%	3%
S05_SBa	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-30	85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	45	0	-30	5	2.2	15	202	203	203	34069	93%	4%	3%

Additional Barrier Investigation - 2.2 m OLA099

Road	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
S06_NBa	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-88	-60	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	34	34	0	-88	-60	24.0	3	201	201	201	27939	98%	2%	0%
S06_NBa	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-60	-40	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	34	34	0	-60	-40	2.2	19	201	201	201	25573	98%	2%	0%
S06_NBa	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-40	46	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	34	34	0	-34	46	2.2	19	201	201	201	25573	98%	2%	0%
S05_NBc	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	46	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	34	50	0	46	65	2.2	19	201	201	201	25573	93%	4%	3%
S06_SBa	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	-60	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	49	49	0	-87	-60	24.0	3	201	201	201	29750	98%	2%	0%
S06_SBa	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-60	-40	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	49	49	0	-60	-40	2.2	19	201	201	201	34069	98%	2%	0%
S06_SBa	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-40	37	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	49	49	0	-34	37	2.2	19	201	201	201	34069	98%	2%	0%
S05_SBc	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	37	78	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	49	62	0	37	65	2.2	19	201	201	201	34069	93%	4%	3%
AS06	69	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-25	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	37	37	0	-90	-25	2.2	19	201	201	201	6929	99%	1%	0%
AS06	69	0.0%	2 Manual	1 Typical Asphalt or Concrete	-25	74	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	37	37	0	69	74	24.0	26	201	201	201	6929	99%	1%	0%

Additional Barrier Investigation - 2.2 m S01_NB Kennedy Road Major Mackenzie Drive 16th Avenue

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA028	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	-85	-67	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	131	0	-85	-67	2.2	17	184	182	184	27922	96%	2%	2%
OLA031	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	-76	-64	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	53	206	0	-76	-64	2.2	29	184	182	183	27922	96%	2%	2%
OLA033	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	281	0	-	-	0.0	-	184	182	-	27922	96%	2%	2%
OLA036	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	340	0	-	-	0.0	-	184	182	-	27922	96%	2%	2%
OLA037	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	-53	-44	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	404	0	-53	-44	2.2	15	184	182	182	27922	96%	2%	2%
OLA038	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	25	398	0	-	-	0.0	-	184	182	-	27922	96%	2%	2%
OLA039	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	-52	-39	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	447	0	-52	-39	2.2	18	184	181	182	27922	96%	2%	2%
OLA040	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	24	447	0	-	-	0.0	-	184	183	-	27922	96%	2%	2%
OLA041	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	-45	-28	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	46	498	0	-45	-28	2.2	20	184	181	183	27922	96%	2%	2%
OLA045	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	-59	-36	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	595	0	-59	-36	2.2	16	184	183	183	27922	96%	2%	2%
OLA050	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-64	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	36	735	0	-70	-64	2.2	12	184	185	184	27922	96%	2%	2%
OLA052	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-77	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	794	0	-85	-77	2.2	17	184	185	185	27922	96%	2%	2%
OLA055	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	46	857	0	-	-	0.0	-	184	185	-	27922	96%	2%	2%
OLA057	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	46	908	0	-	-	0.0	-	184	185	-	27922	96%	2%	2%
OLA063	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	27	1106	0	-	-	0.0	-	184	185	-	27922	96%	2%	2%
OLA071	75	2.5%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	42	1399	0	-	-	0.0	-	184	178	-	27922	96%	2%	2%
OLA072	75	2.5%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	1463	0	-	-	0.0	-	184	177	-	27922	96%	2%	2%
OLA074	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	55	1539	0	-	-	0.0	-	184	176	-	27922	96%	2%	2%
OLA075	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	61	74	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	55	1608	0	61	70	2.2	4	184	175	175	27922	96%	2%	2%
OLA076	75	0.0%	2 Manual	1 Typical Asphalt or Concrete	54	66	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	65	1669	0	54	66	2.2	28	184	175	175	27922	96%	2%	2%

Additional Barrier Investigation - 2.2 m S01_SB Kennedy Road Major Mackenzie Drive 16th Avenue

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA028	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-85	-73	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	127	0	-85	-73	2.2	17	184	182	184	20376	96%	2%	2%
OLA031	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-76	-68	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	203	0	-76	-68	2.2	29	184	182	183	20376	96%	2%	2%
OLA033	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	41	284	0	-	-	0.0	-	184	182	-	20376	96%	2%	2%
OLA036	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	41	345	0	-	-	0.0	-	184	182	-	20376	96%	2%	2%
OLA037	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-56	-44	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	407	0	-56	-44	2.2	15	184	182	182	20376	96%	2%	2%
OLA038	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	39	404	0	-	-	0.0	-	184	182	-	20376	96%	2%	2%
OLA039	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-54	-39	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	29	451	0	-54	-39	2.2	18	184	181	182	20376	96%	2%	2%
OLA040	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	39	453	0	-	-	0.0	-	184	183	-	20376	96%	2%	2%
OLA041	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-46	-28	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	503	0	-46	-28	2.2	20	184	181	183	20376	96%	2%	2%
OLA045	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-61	-36	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	603	0	-61	-36	2.2	16	184	183	183	20376	96%	2%	2%
OLA050	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-64	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	25	743	0	-70	-64	2.2	12	184	185	184	20376	96%	2%	2%
OLA052	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-77	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	29	802	0	-85	-77	2.2	17	184	185	185	20376	96%	2%	2%
OLA055	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	34	865	0	-	-	0.0	-	184	185	-	20376	96%	2%	2%
OLA057	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	34	915	0	-	-	0.0	-	184	185	-	20376	96%	2%	2%
OLA063	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	16	1112	0	-	-	0.0	-	184	185	-	20376	96%	2%	2%
OLA071	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	1404	0	-	-	0.0	-	184	178	-	20376	96%	2%	2%
OLA072	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	1468	0	-	-	0.0	-	184	177	-	20376	96%	2%	2%
OLA074	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	1544	0	-	-	0.0	-	184	176	-	20376	96%	2%	2%
OLA075	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	61	74	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	70	1614	0	61	70	2.2	4	184	175	175	20376	96%	2%	2%
OLA076	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	54	66	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	79	1675	0	54	66	2.2	28	184	175	175	20376	96%	2%	2%

Additional Barrier Investigation - 2.2 m S02_NBa Kennedy Road 16th Avenue Highway 7

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA028	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-67	65	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	44	0	-67	65	2.2	17	183	182	184	27432	95%	3%	3%
OLA031	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-64	46	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	53	53	0	-64	10	2.2	29	182	182	183	27432	95%	3%	3%
OLA033	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	65	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	51	0	65	85	2.2	15	181	182	181	27432	95%	3%	3%
OLA036	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	112	0	89	90	2.2	15	181	182	181	27432	95%	3%	3%
OLA037	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-62	-53	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	161	0	-62	-53	2.2	15	181	182	182	27432	95%	3%	3%
OLA038	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	25	177	0	-	-	0.0	-	181	182	-	27432	95%	3%	3%
OLA039	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-63	-52	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	209	0	-63	-52	2.2	18	181	181	182	27432	95%	3%	3%
OLA040	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	24	234	0	-	-	0.0	-	181	183	-	27432	95%	3%	3%
OLA041	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-58	-45	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	46	267	0	-58	-45	2.2	20	181	181	183	27432	95%	3%	3%
OLA045	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-75	-59	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	384	0	-75	-59	2.2	16	181	183	183	27432	95%	3%	3%
OLA050	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	36	531	0	-	-	0.0	-	181	185	-	27432	95%	3%	3%
OLA052	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	586	0	-	-	0.0	-	181	185	-	27432	95%	3%	3%
OLA055	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	46	645	0	-	-	0.0	-	181	185	-	27432	95%	3%	3%
OLA057	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	46	691	0	-	-	0.0	-	181	185	-	27432	95%	3%	3%
OLA063	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	27	880	0	-	-	0.0	-	181	185	-	27432	95%	3%	3%
OLA071	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	42	1164	0	-	-	0.0	-	181	178	-	27432	95%	3%	3%
OLA072	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	1227	0	-	-	0.0	-	181	177	-	27432	95%	3%	3%
OLA074	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	55	1302	0	-	-	0.0	-	181	176	-	27432	95%	3%	3%
OLA075	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	58	61	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	55	1375	0	58	61	2.2	4	181	175	175	27432	95%	3%	3%
OLA076	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	51	54	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	65	1435	0	51	54	2.2	28	181	175	175	27432	95%	3%	3%

Additional Barrier Investigation - 2.2 m S02_SBa Kennedy Road 16th Avenue Highway 7

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA028	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-73	71	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	30	0	-73	71	2.2	17	184	182	184	29631	95%	3%	3%
OLA031	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-68	55	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	41	0	-68	10	2.2	29	183	182	183	29631	95%	3%	3%
OLA033	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	54	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	41	60	0	54	85	2.2	15	182	182	181	29631	95%	3%	3%
OLA036	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	82	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	41	119	0	82	90	2.2	15	182	182	181	29631	95%	3%	3%
OLA037	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-68	-56	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	162	0	-68	-56	2.2	15	182	182	182	29631	95%	3%	3%
OLA038	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	39	183	0	-	-	0.0	-	182	182	-	29631	95%	3%	3%
OLA039	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-67	-54	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	29	211	0	-67	-54	2.2	18	182	181	182	29631	95%	3%	3%
OLA040	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	39	241	0	-	-	0.0	-	182	183	-	29631	95%	3%	3%
OLA041	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-61	-46	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	271	0	-61	-46	2.2	20	182	181	183	29631	95%	3%	3%
OLA045	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-76	-61	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	391	0	-75	-61	2.2	16	182	183	183	29631	95%	3%	3%
OLA050	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	25	537	0	-	-	0.0	-	182	185	-	29631	95%	3%	3%
OLA052	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	29	592	0	-	-	0.0	-	182	185	-	29631	95%	3%	3%
OLA055	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	34	650	0	-	-	0.0	-	182	185	-	29631	95%	3%	3%
OLA057	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	34	696	0	-	-	0.0	-	182	185	-	29631	95%	3%	3%
OLA063	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	16	883	0	-	-	0.0	-	182	185	-	29631	95%	3%	3%
OLA071	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	1165	0	-	-	0.0	-	182	178	-	29631	95%	3%	3%
OLA072	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	1228	0	-	-	0.0	-	182	177	-	29631	95%	3%	3%
OLA074	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	1302	0	-	-	0.0	-	182	176	-	29631	95%	3%	3%
OLA075	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	58	61	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	70	1376	0	58	61	2.2	4	182	175	175	29631	95%	3%	3%
OLA076	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	51	54	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	79	1436	0	51	54	2.2	28	182	175	175	29631	95%	3%	3%

Additional Barrier Investigation - 2.2 m S02_NBb Kennedy Road 16th Avenue Highway 7

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA028	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	51	65	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	139	0	51	65	2.2	17	181	182	184	27432	95%	3%	3%
OLA031	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	46	53	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	53	83	0	-	-	0.0	-	181	182	-	27432	95%	3%	3%
OLA033	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	65	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	26	0	-90	65	2.2	15	181	182	181	27432	95%	3%	3%
OLA036	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	26	0	-90	89	2.2	15	181	182	181	27432	95%	3%	3%
OLA037	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-62	66	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	40	0	-62	66	2.2	15	181	182	182	27432	95%	3%	3%
OLA038	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	25	25	0	-89	90	2.2	14	181	182	182	27432	95%	3%	3%
OLA039	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-63	62	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	44	0	-63	62	2.2	18	181	181	182	27432	95%	3%	3%
OLA040	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-72	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	24	24	0	-72	90	2.2	13	181	183	182	27432	95%	3%	3%
OLA041	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-58	57	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	46	46	0	-58	57	2.2	20	182	181	183	27432	95%	3%	3%
OLA045	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-75	-60	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	74	0	-75	-60	2.2	16	182	183	183	27432	95%	3%	3%
OLA050	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	36	218	0	-	-	0.0	-	182	185	-	27432	95%	3%	3%
OLA052	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	275	0	-	-	0.0	-	182	185	-	27432	95%	3%	3%
OLA055	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	46	337	0	-	-	0.0	-	182	185	-	27432	95%	3%	3%
OLA057	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	46	387	0	-	-	0.0	-	182	185	-	27432	95%	3%	3%
OLA063	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	27	587	0	-	-	0.0	-	182	185	-	27432	95%	3%	3%
OLA071	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	42	886	0	-	-	0.0	-	182	178	-	27432	95%	3%	3%
OLA072	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	953	0	-	-	0.0	-	182	177	-	27432	95%	3%	3%
OLA074	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	55	1031	0	-	-	0.0	-	182	176	-	27432	95%	3%	3%
OLA075	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	58	64	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	55	1093	0	58	64	2.2	4	182	175	175	27432	95%	3%	3%
OLA076	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	51	58	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	65	1155	0	51	58	2.2	28	182	175	175	27432	95%	3%	3%

Additional Barrier Investigation - 2.2 m S02_SBb Kennedy Road 16th Avenue Highway 7

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA028	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	53	71	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	137	0	53	71	2.2	17	182	182	184	29631	95%	3%	3%
OLA031	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	55	55	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	75	0	-	-	0.0	-	182	182	-	29631	95%	3%	3%
OLA033	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	54	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	41	41	0	-90	54	2.2	15	181	182	181	29631	95%	3%	3%
OLA036	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	82	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	41	41	0	-90	82	2.2	15	181	182	181	29631	95%	3%	3%
OLA037	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-68	71	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	26	0	-68	71	2.2	15	182	182	182	29631	95%	3%	3%
OLA038	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-83	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	39	39	0	-83	90	2.2	14	182	182	182	29631	95%	3%	3%
OLA039	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-67	68	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	29	29	0	-67	68	2.2	18	182	181	182	29631	95%	3%	3%
OLA040	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-63	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	39	39	0	-63	90	2.2	13	182	183	182	29631	95%	3%	3%
OLA041	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-61	66	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	31	0	-61	65	2.2	20	182	181	183	29631	95%	3%	3%
OLA045	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-76	-71	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	67	0	-75	-71	2.2	16	182	183	183	29631	95%	3%	3%
OLA050	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	25	213	0	-	-	0.0	-	182	185	-	29631	95%	3%	3%
OLA052	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	29	269	0	-	-	0.0	-	182	185	-	29631	95%	3%	3%
OLA055	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	34	330	0	-	-	0.0	-	182	185	-	29631	95%	3%	3%
OLA057	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	34	378	0	-	-	0.0	-	182	185	-	29631	95%	3%	3%
OLA063	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	16	577	0	-	-	0.0	-	182	185	-	29631	95%	3%	3%
OLA071	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	875	0	-	-	0.0	-	182	178	-	29631	95%	3%	3%
OLA072	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	941	0	-	-	0.0	-	182	177	-	29631	95%	3%	3%
OLA074	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	1019	0	-	-	0.0	-	182	176	-	29631	95%	3%	3%
OLA075	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	58	64	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	70	1082	0	58	64	2.2	4	182	175	175	29631	95%	3%	3%
OLA076	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	51	57	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	79	1145	0	51	57	2.2	28	182	175	175	29631	95%	3%	3%

Additional Barrier Investigation - 2.2 m S02_NBc Kennedy Road 16th Avenue Highway 7

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode		Road Pavement		Angle 1 (degrees)	Angle 2 (degrees)	Topography		Wood Depth		No of Row of Houses	Density of 1st Row	Intermediate Surface		Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA028	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	49	51	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	446	0	49	51	2.2	17	182	182	184	27432	95%	3%	3%
OLA031	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	53	54	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	395	0	-	-	0.0	-	182	182	-	27432	95%	3%	3%
OLA033	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	263	0	-	-	0.0	-	182	182	-	27432	95%	3%	3%
OLA036	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	201	0	-	-	0.0	-	182	182	-	27432	95%	3%	3%
OLA037	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	66	80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	187	0	66	80	2.2	15	182	182	182	27432	95%	3%	3%
OLA038	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	-87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	137	0	-89	-87	2.2	14	182	182	182	27432	95%	3%	3%
OLA039	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	62	84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	141	0	62	75	2.2	18	182	181	182	27432	95%	3%	3%
OLA040	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	24	79	0	-73	-72	2.2	13	182	183	182	27432	95%	3%	3%
OLA041	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	57	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	85	0	57	65	2.2	20	182	181	183	27432	95%	3%	3%
OLA045	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-60	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	42	0	-60	85	2.2	16	183	183	183	27432	95%	3%	3%
OLA050	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	54	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	36	0	-70	54	2.2	12	184	185	184	27432	95%	3%	3%
OLA052	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-29	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	45	0	-85	-29	2.2	17	185	185	185	27432	95%	3%	3%
OLA055	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	102	0	-85	-73	2.2	22	185	185	185	27432	95%	3%	3%
OLA057	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	156	0	-90	-82	2.2	22	185	185	186	27432	95%	3%	3%
OLA063	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	27	361	0	-90	-89	2.2	3	185	185	185	27432	95%	3%	3%
OLA071	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	42	673	0	-	-	0.0	-	185	178	-	27432	95%	3%	3%
OLA072	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	741	0	-	-	0.0	-	185	177	-	27432	95%	3%	3%
OLA074	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	55	823	0	-	-	0.0	-	185	176	-	27432	95%	3%	3%
OLA075	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	64	73	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	55	868	0	64	70	2.2	4	185	175	175	27432	95%	3%	3%
OLA076	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	58	66	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	65	933	0	58	66	2.2	28	185	175	175	27432	95%	3%	3%

Additional Barrier Investigation - 2.2 m S02_SBc Kennedy Road 16th Avenue Highway 7

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode		Road Pavement		Angle 1 (degrees)	Angle 2 (degrees)	Topography		Wood Depth		No of Row of Houses	Density of 1st Row	Intermediate Surface		Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA028	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	50	53	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	452	0	50	53	2.2	17	182	182	184	29631	95%	3%	3%
OLA031	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	55	55	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	399	0	-	-	0.0	-	182	182	-	29631	95%	3%	3%
OLA033	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	41	268	0	-	-	0.0	-	182	182	-	29631	95%	3%	3%
OLA036	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	41	206	0	-	-	0.0	-	182	182	-	29631	95%	3%	3%
OLA037	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	71	81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	185	0	71	80	2.2	15	182	182	182	29631	95%	3%	3%
OLA038	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-85	-83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	39	141	0	-85	-83	2.2	14	182	182	182	29631	95%	3%	3%
OLA039	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	68	86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	138	0	68	75	2.2	18	182	181	182	29631	95%	3%	3%
OLA040	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-71	-63	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	39	85	0	-71	-63	2.2	13	182	183	182	29631	95%	3%	3%
OLA041	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	66	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	77	0	-	-	0.0	-	182	181	-	29631	95%	3%	3%
OLA045	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-71	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	26	0	-71	85	2.2	16	182	183	183	29631	95%	3%	3%
OLA050	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	64	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	25	0	-70	64	2.2	12	184	185	184	29631	95%	3%	3%
OLA052	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-36	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	35	0	-85	-36	2.2	17	184	185	185	29631	95%	3%	3%
OLA055	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	95	0	-85	-79	2.2	22	184	185	185	29631	95%	3%	3%
OLA057	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-86	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	150	0	-90	-86	2.2	22	184	185	186	29631	95%	3%	3%
OLA063	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	16	357	0	-	-	0.0	-	184	185	-	29631	95%	3%	3%
OLA071	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	669	0	-	-	0.0	-	184	178	-	29631	95%	3%	3%
OLA072	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	737	0	-	-	0.0	-	184	177	-	29631	95%	3%	3%
OLA074	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	818	0	-	-	0.0	-	184	176	-	29631	95%	3%	3%
OLA075	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	64	72	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	70	865	0	64	70	2.2	4	184	175	175	29631	95%	3%	3%
OLA076	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	57	65	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	79	930	0	57	65	2.2	28	184	175	175	29631	95%	3%	3%

Additional Barrier Investigation - 2.2 m S02_NBd Kennedy Road 16th Avenue Highway 7

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA028	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	49	70	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	714	0	49	70	2.2	17	185	182	184	27432	95%	3%	3%
OLA031	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	54	78	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	53	664	0	-	-	0.0	-	185	182	-	27432	95%	3%	3%
OLA033	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	532	0	-90	-81	2.2	15	185	182	181	27432	95%	3%	3%
OLA036	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-69	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	471	0	-90	-69	2.2	15	185	182	181	27432	95%	3%	3%
OLA037	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	80	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	447	0	80	80	2.2	15	185	182	182	27432	95%	3%	3%
OLA038	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	-58	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	25	406	0	-87	-58	2.2	14	185	182	182	27432	95%	3%	3%
OLA039	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	84	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	396	0	-	-	0.0	-	185	181	-	27432	95%	3%	3%
OLA040	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-73	-43	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	24	349	0	-73	-43	2.2	13	185	183	182	27432	95%	3%	3%
OLA041	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	46	330	0	-	-	0.0	-	185	181	-	27432	95%	3%	3%
OLA045	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	200	0	-	-	0.0	-	185	183	-	27432	95%	3%	3%
OLA050	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	54	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	36	56	0	54	90	2.2	12	185	185	184	27432	95%	3%	3%
OLA052	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-29	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	40	0	-29	90	2.2	17	185	185	185	27432	95%	3%	3%
OLA055	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-73	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	46	46	0	-73	85	2.2	22	185	185	185	27432	95%	3%	3%
OLA057	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-82	86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	46	46	0	-82	80	2.2	22	185	185	186	27432	95%	3%	3%
OLA063	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	27	27	0	-89	87	2.2	3	185	185	185	27432	95%	3%	3%
OLA071	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	76	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	42	42	0	-85	76	2.2	12	178	178	178	27432	95%	3%	3%
OLA072	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	66	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	45	0	-85	66	2.2	13	176	177	177	27432	95%	3%	3%
OLA074	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	12	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	55	55	0	-90	12	2.2	27	176	176	176	27432	95%	3%	3%
OLA075	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	17	73	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	55	58	0	17	70	2.2	4	176	175	175	27432	95%	3%	3%
OLA076	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	45	66	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	65	104	0	45	66	2.2	28	176	175	175	27432	95%	3%	3%

Additional Barrier Investigation - 2.2 m S02_SBd Kennedy Road 16th Avenue Highway 7

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA028	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	50	70	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	711	0	50	70	2.2	17	184	182	184	29631	95%	3%	3%
OLA031	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	55	78	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	660	0	-	-	0.0	-	184	182	-	29631	95%	3%	3%
OLA033	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	41	528	0	-90	-81	2.2	15	184	182	181	29631	95%	3%	3%
OLA036	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	-68	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	41	466	0	-90	-68	2.2	15	184	182	181	29631	95%	3%	3%
OLA037	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	441	0	-	-	0.0	-	184	182	-	29631	95%	3%	3%
OLA038	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-85	-57	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	39	401	0	-85	-57	2.2	14	184	182	182	29631	95%	3%	3%
OLA039	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	86	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	29	389	0	-	-	0.0	-	184	181	-	29631	95%	3%	3%
OLA040	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-71	-42	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	39	344	0	-71	-42	2.2	13	184	183	182	29631	95%	3%	3%
OLA041	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	323	0	-	-	0.0	-	184	181	-	29631	95%	3%	3%
OLA045	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	194	0	-	-	0.0	-	184	183	-	29631	95%	3%	3%
OLA050	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	64	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	25	49	0	64	90	2.2	12	184	185	184	29631	95%	3%	3%
OLA052	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-36	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	29	29	0	-36	90	2.2	17	184	185	185	29631	95%	3%	3%
OLA055	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-79	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	34	34	0	-79	85	2.2	22	185	185	185	29631	95%	3%	3%
OLA057	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-86	87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	34	34	0	-86	80	2.2	22	185	185	186	29631	95%	3%	3%
OLA063	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	89	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	16	16	0	-90	89	2.2	3	185	185	185	29631	95%	3%	3%
OLA071	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	81	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	27	0	-85	81	2.2	12	178	178	178	29631	95%	3%	3%
OLA072	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	73	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	30	0	-85	73	2.2	13	176	177	177	29631	95%	3%	3%
OLA074	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-90	15	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	40	0	-90	15	2.2	27	176	176	176	29631	95%	3%	3%
OLA075	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	13	72	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	70	73	0	13	70	2.2	4	176	175	175	29631	95%	3%	3%
OLA076	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	39	65	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	79	113	0	39	65	2.2	28	176	175	175	29631	95%	3%	3%

Additional Barrier Investigation - 2.2 m S02_NBe Kennedy Road 16th Avenue Highway 7

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA028	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	70	76	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	1469	0	70	72	2.2	17	176	182	184	27432	95%	3%	3%
OLA031	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	78	85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	53	1401	0	-	-	0.0	-	176	182	-	27432	95%	3%	3%
OLA033	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-81	-74	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	1289	0	-81	-74	2.2	15	176	182	181	27432	95%	3%	3%
OLA036	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-69	-61	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	1227	0	-69	-61	2.2	15	176	182	181	27432	95%	3%	3%
OLA037	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	1171	0	-	-	0.0	-	176	182	-	27432	95%	3%	3%
OLA038	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-58	-50	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	25	1168	0	-58	-50	2.2	14	176	182	182	27432	95%	3%	3%
OLA039	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	1122	0	-	-	0.0	-	176	181	-	27432	95%	3%	3%
OLA040	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-43	-36	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	24	1122	0	-43	-36	2.2	13	176	183	182	27432	95%	3%	3%
OLA041	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	46	1069	0	-	-	0.0	-	176	181	-	27432	95%	3%	3%
OLA045	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	982	0	-	-	0.0	-	176	183	-	27432	95%	3%	3%
OLA050	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	36	863	0	-	-	0.0	-	176	185	-	27432	95%	3%	3%
OLA052	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	806	0	-	-	0.0	-	176	185	-	27432	95%	3%	3%
OLA055	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	46	739	0	-	-	0.0	-	176	185	-	27432	95%	3%	3%
OLA057	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	86	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	46	684	0	-	-	0.0	-	176	185	-	27432	95%	3%	3%
OLA063	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	87	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	27	476	0	87	90	2.2	3	176	185	185	27432	95%	3%	3%
OLA071	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	76	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	42	168	0	76	85	2.2	12	176	178	178	27432	95%	3%	3%
OLA072	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	66	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	104	0	66	80	2.2	13	176	177	177	27432	95%	3%	3%
OLA074	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	12	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	55	56	0	12	20	2.2	27	176	176	176	27432	95%	3%	3%
OLA075	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-72	17	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	55	55	0	-70	17	2.2	4	176	175	175	27432	95%	3%	3%
OLA076	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-73	45	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	65	65	0	-15	45	2.2	28	175	175	175	27432	95%	3%	3%

Additional Barrier Investigation - 2.2 m S02_SBe Kennedy Road 16th Avenue Highway 7

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA028	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	70	76	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	1463	0	70	72	2.2	17	176	182	184	29631	95%	3%	3%
OLA031	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	78	85	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	1394	0	-	-	0.0	-	176	182	-	29631	95%	3%	3%
OLA033	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-81	-74	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	41	1283	0	-81	-74	2.2	15	176	182	181	29631	95%	3%	3%
OLA036	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-68	-61	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	41	1221	0	-68	-61	2.2	15	176	182	181	29631	95%	3%	3%
OLA037	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	1164	0	-	-	0.0	-	176	182	-	29631	95%	3%	3%
OLA038	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-57	-50	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	39	1163	0	-57	-50	2.2	14	176	182	182	29631	95%	3%	3%
OLA039	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	29	1117	0	-	-	0.0	-	176	181	-	29631	95%	3%	3%
OLA040	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-42	-36	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	39	1118	0	-42	-36	2.2	13	176	183	182	29631	95%	3%	3%
OLA041	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	1064	0	-	-	0.0	-	176	181	-	29631	95%	3%	3%
OLA045	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	978	0	-	-	0.0	-	176	183	-	29631	95%	3%	3%
OLA050	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	25	860	0	-	-	0.0	-	176	185	-	29631	95%	3%	3%
OLA052	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	29	804	0	-	-	0.0	-	176	185	-	29631	95%	3%	3%
OLA055	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	34	737	0	-	-	0.0	-	176	185	-	29631	95%	3%	3%
OLA057	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	87	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	34	681	0	-	-	0.0	-	176	185	-	29631	95%	3%	3%
OLA063	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	89	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	16	474	0	89	90	2.2	3	176	185	185	29631	95%	3%	3%
OLA071	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	81	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	164	0	81	85	2.2	12	176	178	178	29631	95%	3%	3%
OLA072	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	73	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	98	0	73	80	2.2	13	176	177	177	29631	95%	3%	3%
OLA074	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	15	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	41	0	15	20	2.2	27	176	176	176	29631	95%	3%	3%
OLA075	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-70	13	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	70	70	0	-70	13	2.2	4	176	175	175	29631	95%	3%	3%
OLA076	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-71	39	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	79	79	0	-15	39	2.2	28	175	175	175	29631	95%	3%	3%

Additional Barrier Investigation - 2.2 m S02_NBf Kennedy Road 16th Avenue Highway 7

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA028	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	76	78	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	1729	0	-	-	0.0	-	172	182	-	27432	95%	3%	3%
OLA031	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	85	86	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	53	1657	0	-	-	0.0	-	172	182	-	27432	95%	3%	3%
OLA033	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-74	-73	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	1555	0	-74	-73	2.2	15	172	182	181	27432	95%	3%	3%
OLA036	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-61	-60	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	1495	0	-61	-60	2.2	15	172	182	181	27432	95%	3%	3%
OLA037	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	1433	0	-	-	0.0	-	172	182	-	27432	95%	3%	3%
OLA038	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-50	-49	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	25	1440	0	-50	-49	2.2	14	172	182	182	27432	95%	3%	3%
OLA039	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	44	1388	0	-	-	0.0	-	172	181	-	27432	95%	3%	3%
OLA040	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-36	-35	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	24	1399	0	-36	-35	2.2	13	172	183	182	27432	95%	3%	3%
OLA041	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	46	1340	0	-	-	0.0	-	172	181	-	27432	95%	3%	3%
OLA045	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	42	1267	0	-	-	0.0	-	172	183	-	27432	95%	3%	3%
OLA050	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	36	1160	0	-	-	0.0	-	172	185	-	27432	95%	3%	3%
OLA052	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	1105	0	-	-	0.0	-	172	185	-	27432	95%	3%	3%
OLA055	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	46	1039	0	-	-	0.0	-	172	185	-	27432	95%	3%	3%
OLA057	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	46	984	0	-	-	0.0	-	172	185	-	27432	95%	3%	3%
OLA063	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	27	779	0	-	-	0.0	-	172	185	-	27432	95%	3%	3%
OLA071	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	42	468	0	-	-	0.0	-	172	178	-	27432	95%	3%	3%
OLA072	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	45	400	0	-	-	0.0	-	172	177	-	27432	95%	3%	3%
OLA074	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	55	318	0	-	-	0.0	-	172	176	-	27432	95%	3%	3%
OLA075	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-83	-72	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	55	314	0	-	-	0.0	-	172	175	-	27432	95%	3%	3%
OLA076	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-89	-73	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	65	256	0	-	-	0.0	-	172	175	-	27432	95%	3%	3%

Additional Barrier Investigation - 2.2 m S02_SBf Kennedy Road 16th Avenue Highway 7

POR	Posted Speed Limit (km/hr)	Road Grade (%)	Road Grade Mode	Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)	Topography	Wood Depth	No of Row of Houses	Density of 1st Row	Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA028	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	76	78	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	1723	0	-	-	0.0	-	172	182	-	29631	95%	3%	3%
OLA031	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	85	87	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	41	1651	0	-	-	0.0	-	172	182	-	29631	95%	3%	3%
OLA033	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-74	-72	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	41	1550	0	-74	-72	2.2	15	172	182	181	29631	95%	3%	3%
OLA036	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-61	-59	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	41	1490	0	-61	-59	2.2	15	172	182	181	29631	95%	3%	3%
OLA037	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	1428	0	-	-	0.0	-	172	182	-	29631	95%	3%	3%
OLA038	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-50	-48	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	39	1436	0	-50	-48	2.2	14	172	182	182	29631	95%	3%	3%
OLA039	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	29	1383	0	-	-	0.0	-	172	181	-	29631	95%	3%	3%
OLA040	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-36	-34	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	2 Reflective Ground	1.50	39	1395	0	-36	-34	2.2	13	172	183	182	29631	95%	3%	3%
OLA041	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	31	1336	0	-	-	0.0	-	172	181	-	29631	95%	3%	3%
OLA045	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	26	1264	0	-	-	0.0	-	172	183	-	29631	95%	3%	3%
OLA050	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	25	1157	0	-	-	0.0	-	172	185	-	29631	95%	3%	3%
OLA052	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	29	1102	0	-	-	0.0	-	172	185	-	29631	95%	3%	3%
OLA055	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	34	1036	0	-	-	0.0	-	172	185	-	29631	95%	3%	3%
OLA057	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	34	981	0	-	-	0.0	-	172	185	-	29631	95%	3%	3%
OLA063	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	16	777	0	-	-	0.0	-	172	185	-	29631	95%	3%	3%
OLA071	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	27	466	0	-	-	0.0	-	172	178	-	29631	95%	3%	3%
OLA072	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	30	399	0	-	-	0.0	-	172	177	-	29631	95%	3%	3%
OLA074	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	90	90	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	40	317	0	-	-	0.0	-	172	176	-	29631	95%	3%	3%
OLA075	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-81	-70	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	70	317	0	-70	-70	2.2	4	172	175	175	29631	95%	3%	3%
OLA076	70	0.0%	2 Manual	1 Typical Asphalt or Concrete	-87	-71	2 Flat/gentle slope; with barrier	0 None, or < 30 m woods	0	95%	1 Absorptive Ground	1.50	79	260	0	-	-	0.0	-	172	175	-	29631	95%	3%	3%

Additional Barrier Investigation - 2.2 m S03_NBa Kennedy Road Highway 7 Highway 407

POR	Posted Speed Limit (km/hr)	Road Grade (%)		Road Grade Mode		Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)		Topography		Wood Depth	No of Row of Houses	Density of 1st Row		Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA028	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	78	79	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	1937	0	-	-	0.0	-	174	182	-	36821	93%	3%	4%
OLA031	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	86	88	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	53	1864	0	-	-	0.0	-	174	182	-	36821	93%	3%	4%
OLA033	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-73	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	1765	0	-73	-71	2.2	15	174	182	181	36821	93%	3%	4%
OLA036	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-60	-59	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	1706	0	-60	-59	2.2	15	174	182	181	36821	93%	3%	4%
OLA037	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	1642	0	-	-	0.0	-	174	182	-	36821	93%	3%	4%
OLA038	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-49	-48	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	1651	0	-49	-48	2.2	14	174	182	182	36821	93%	3%	4%
OLA039	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	44	1598	0	-	-	0.0	-	174	181	-	36821	93%	3%	4%
OLA040	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-35	-34	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	24	1611	0	-35	-34	2.2	13	174	183	182	36821	93%	3%	4%
OLA041	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	1552	0	-	-	0.0	-	174	181	-	36821	93%	3%	4%
OLA045	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	42	1480	0	-	-	0.0	-	174	183	-	36821	93%	3%	4%
OLA050	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	36	1373	0	-	-	0.0	-	174	185	-	36821	93%	3%	4%
OLA052	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	1318	0	-	-	0.0	-	174	185	-	36821	93%	3%	4%
OLA055	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	1252	0	-	-	0.0	-	174	185	-	36821	93%	3%	4%
OLA057	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	46	1197	0	-	-	0.0	-	174	185	-	36821	93%	3%	4%
OLA063	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	27	992	0	-	-	0.0	-	174	185	-	36821	93%	3%	4%
OLA071	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	42	680	0	-	-	0.0	-	174	178	-	36821	93%	3%	4%
OLA072	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	45	613	0	-	-	0.0	-	174	177	-	36821	93%	3%	4%
OLA074	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	55	531	0	-	-	0.0	-	174	176	-	36821	93%	3%	4%
OLA075	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	55	512	0	-	-	0.0	-	174	175	-	36821	93%	3%	4%
OLA076	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	65	448	0	-	-	0.0	-	174	175	-	36821	93%	3%	4%

Additional Barrier Investigation - 2.2 m S03_SBa Kennedy Road Highway 7 Highway 407

POR	Posted Speed Limit (km/hr)	Road Grade (%)		Road Grade Mode		Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)		Topography		Wood Depth	No of Row of Houses	Density of 1st Row		Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA028	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	78	80	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	1933	0	-	-	0.0	-	174	182	-	37714	93%	3%	4%
OLA031	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	87	89	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	41	1860	0	-	-	0.0	-	174	182	-	37714	93%	3%	4%
OLA033	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-72	-71	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	41	1761	0	-72	-71	2.2	15	174	182	181	37714	93%	3%	4%
OLA036	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-59	-58	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	41	1702	0	-59	-58	2.2	15	174	182	181	37714	93%	3%	4%
OLA037	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	1638	0	-	-	0.0	-	174	182	-	37714	93%	3%	4%
OLA038	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-48	-47	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	39	1649	0	-48	-47	2.2	14	174	182	182	37714	93%	3%	4%
OLA039	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	1595	0	-	-	0.0	-	174	181	-	37714	93%	3%	4%
OLA040	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-34	-33	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	2	Reflective Ground	1.50	39	1609	0	-34	-33	2.2	13	174	183	182	37714	93%	3%	4%
OLA041	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	31	1549	0	-	-	0.0	-	174	181	-	37714	93%	3%	4%
OLA045	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	26	1479	0	-	-	0.0	-	174	183	-	37714	93%	3%	4%
OLA050	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	25	1373	0	-	-	0.0	-	174	185	-	37714	93%	3%	4%
OLA052	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	29	1319	0	-	-	0.0	-	174	185	-	37714	93%	3%	4%
OLA055	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	1253	0	-	-	0.0	-	174	185	-	37714	93%	3%	4%
OLA057	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	34	1198	0	-	-	0.0	-	174	185	-	37714	93%	3%	4%
OLA063	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	16	993	0	-	-	0.0	-	174	185	-	37714	93%	3%	4%
OLA071	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	27	683	0	-	-	0.0	-	174	178	-	37714	93%	3%	4%
OLA072	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	30	615	0	-	-	0.0	-	174	177	-	37714	93%	3%	4%
OLA074	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	90	90	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	40	533	0	-	-	0.0	-	174	176	-	37714	93%	3%	4%
OLA075	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-89	-81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	70	519	0	-	-	0.0	-	174	175	-	37714	93%	3%	4%
OLA076	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	-87	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	79	455	0	-	-	0.0	-	174	175	-	37714	93%	3%	4%

Additional Barrier Investigation - 2.2 m AS02 16th Avenue @ Kennedy Road

POR	Posted Speed Limit (km/hr)	Road Grade (%)		Road Grade Mode		Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)		Topography		Wood Depth	No of Row of Houses	Density of 1st Row		Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA028	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	120	120	0	-90	-40	6.0	3	184	182	182	32128	96%	2%	2%
OLA031	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-90	84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	196	196	0	-90	0	6.0	3	184	182	182	32128	96%	2%	2%
OLA033	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-86	85	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	279	279	0	30	85	6.0	3	185	182	182	32128	96%	2%	2%
OLA036	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-85	84	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	335	335	0	0	84	6.0	3	185	182	182	32128	96%	2%	2%
OLA037	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-84	83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	403	403	0	-	-	0.0	-	185	182	-	32128	96%	2%	2%
OLA038	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-84	83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	385	385	0	-15	83	6.0	3	186	182	182	32128	96%	2%	2%
OLA039	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-83	82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	443	443	0	-	-	0.0	-	185	181	-	32128	96%	2%	2%
OLA040	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-84	82	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	422	422	0	-15	82	6.0	3	187	183	183	32128	96%	2%	2%
OLA041	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-83	81	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	484	484	0	-83	-55	6.0	3	186	181	181	32128	96%	2%	2%

Additional Barrier Investigation - 2.2 m AS03 Highway 7 @ Kennedy Road

POR	Posted Speed Limit (km/hr)	Road Grade (%)		Road Grade Mode		Road Pavement	Angle 1 (degrees)	Angle 2 (degrees)		Topography		Wood Depth	No of Row of Houses	Density of 1st Row		Intermediate Surface	Receptor Height (m)	Source-Receptor Perpendicular Distance	Source-Receptor Total Distance	Elevation Change	Barrier Angle 1 (degrees)	Barrier Angle 2 (degrees)	Barrier Height (m)	Barrier Receiver Distance (m)	Source Elevation (m)	Receiver Gnd Elevation (m)	Barrier Base Elevation (m)	# Vehicles (16-Hour)	%Cars	%MT	%HT
OLA075	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-81	83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	480	480	0	-81	0	6.0	3	173	175	175	41318	92%	4%	4%
OLA076	70	0.0%	2	Manual	1	Typical Asphalt or Concrete	-82	83	2	Flat/gentle slope; with barrier	0	None, or < 30 m woods	0	95%	1	Absorptive Ground	1.50	415	415	0	-82	-25	6.0	3	174	175	175	41318	92%	4%	4%

APPENDIX C

STAMSON Sample Calculation

STAMSON 5.0 NORMAL REPORT Date: 06-08-2020 09:20:49
MINISTRY OF ENVIRONMENT AND ENERGY / NOISE ASSESSMENT

Filename: Time Period: 16 hours
Description: Mature state of development (2041) predicted noise levels at OLA014

Road data, segment # 1: S01_NB

Car traffic volume : 26880 veh/TimePeriod
Medium truck volume : 556 veh/TimePeriod
Heavy truck volume : 486 veh/TimePeriod
Posted speed limit : 75 km/h
Road gradient : 0 %
Road pavement : 1 (Typical asphalt or concrete)

Data for Segment # 1: S01_NB

Angle1 Angle2 : -87.00 deg 88.00 deg
Wood depth : 0 (No woods.)
No of house rows : 0
Surface : 2 (Reflective ground surface)
Receiver source distance : 33.00 m
Receiver height : 1.50 m
Topography : 2 (Flat/gentle slope; with barrier)
Barrier angle1 : -87.00 deg Angle2 : 88.00 deg
Barrier height : 2.00 m
Barrier receiver distance : 4.00 m
Source elevation : 203.42 m
Receiver elevation : 203.03 m
Barrier elevation : 203.07 m
Reference angle : 0.00

Road data, segment # 2: S01_SB

Car traffic volume : 19616 veh/TimePeriod
Medium truck volume : 406 veh/TimePeriod
Heavy truck volume : 354 veh/TimePeriod
Posted speed limit : 70 km/h
Road gradient : 0 %
Road pavement : 1 (Typical asphalt or concrete)

Data for Segment # 2: S01_SB

Angle1 Angle2 : -89.00 deg 88.00 deg
Wood depth : 0 (No woods.)
No of house rows : 0
Surface : 1 (Absorptive ground surface)
Receiver source distance : 18.00 m
Receiver height : 1.50 m
Topography : 2 (Flat/gentle slope; with barrier)
Barrier angle1 : -89.00 deg Angle2 : 88.00 deg
Barrier height : 2.00 m
Barrier receiver distance : 4.00 m
Source elevation : 203.44 m
Receiver elevation : 203.03 m
Barrier elevation : 203.07 m
Reference angle : 0.00

Results segment # 1: S01_NB

Source height = 1.15 m

Barrier height for grazing incidence

Source ! Receiver ! Barrier ! Elevation of
Height (m) ! Height (m) ! Height (m) ! Barrier Top (m)
---+---+---+---
1.15 ! 1.50 ! 1.46 ! 204.53

ROAD (0.00 + 62.36 + 0.00) = 62.36 dBA
Angle1 Angle2 Alpha RefLeq P.Adj D.Adj F.Adj W.Adj H.Adj B.Adj SubLeq
---
-87 88 0.00 72.11 0.00 -3.42 -0.12 0.00 0.00 -6.21 62.36

Segment Leq : 62.36 dBA

Results segment # 2: S01_SB

Source height = 1.15 m

Barrier height for grazing incidence

Source ! Receiver ! Barrier ! Elevation of
Height (m) ! Height (m) ! Height (m) ! Barrier Top (m)
---+---+---+---
1.15 ! 1.50 ! 1.47 ! 204.54

ROAD (0.00 + 61.26 + 0.00) = 61.26 dBA
Angle1 Angle2 Alpha RefLeq P.Adj D.Adj F.Adj W.Adj H.Adj B.Adj SubLeq
---
-89 88 0.55 70.06 0.00 -1.23 -1.28 0.00 0.00 -6.30 61.26

Segment Leq : 61.26 dBA

Total Leq All Segments: 64.86 dBA

TOTAL Leq FROM ALL SOURCES: 64.86

APPENDIX D

Limitations

IMPORTANT INFORMATION AND LIMITATIONS OF THIS REPORT

Standard of Care: Golder Associates Ltd. (Golder) has prepared this report in a manner consistent with that level of care and skill ordinarily exercised by members of the engineering and science professions currently practising under similar conditions in the jurisdiction in which the services are provided, subject to the time limits and physical constraints applicable to this report. No other warranty, expressed or implied is made.

Basis and Use of the Report: This report has been prepared for the specific site, design objective, development and purpose described to Golder by the Client. The factual data, interpretations and recommendations pertain to a specific project as described in this report and are not applicable to any other project or site location. Any change of site conditions, purpose, development plans or if the project is not initiated within eighteen months of the date of the report may alter the validity of the report. Golder cannot be responsible for use of this report, or portions thereof, unless Golder is requested to review and, if necessary, revise the report.

The information, recommendations and opinions expressed in this report are for the sole benefit of the Client. No other party may use or rely on this report or any portion thereof without Golder's express written consent. If the report was prepared to be included for a specific permit application process, then upon the reasonable request of the client, Golder may authorize in writing the use of this report by the regulatory agency as an Approved User for the specific and identified purpose of the applicable permit review process. Any other use of this report by others is prohibited and is without responsibility to Golder. The report, all plans, data, drawings and other documents as well as all electronic media prepared by Golder are considered its professional work product and shall remain the copyright property of Golder, who authorizes only the Client and Approved Users to make copies of the report, but only in such quantities as are reasonably necessary for the use of the report by those parties. The Client and Approved Users may not give, lend, sell, or otherwise make available the report or any portion thereof to any other party without the express written permission of Golder. The Client acknowledges that electronic media is susceptible to unauthorized modification, deterioration and incompatibility and therefore the Client can not rely upon the electronic media versions of Golder's report or other work products.

The report is of a summary nature and is not intended to stand alone without reference to the instructions given to Golder by the Client, communications between Golder and the Client, and to any other reports prepared by Golder for the Client relative to the specific site described in the report. In order to properly understand the suggestions, recommendations and opinions expressed in this report, reference must be made to the whole of the report. Golder can not be responsible for use of portions of the report without reference to the entire report.

Unless otherwise stated, the suggestions, recommendations and opinions given in this report are intended only for the guidance of the Client in the design of the specific project. The extent and detail of investigations, including the number of test holes, necessary to determine all of the relevant conditions which may affect construction costs would normally be greater than has been carried out for design purposes. Contractors bidding on, or undertaking the work, should rely on their own investigations, as well as their own interpretations of the factual data presented in the report, as to how subsurface conditions may affect their work, including but not limited to proposed construction techniques, schedule, safety and equipment capabilities.

Soil, Rock and Ground Water Conditions: Classification and identification of soils, rocks, and geologic units have been based on commonly accepted methods employed in the practice of geotechnical engineering and related disciplines. Classification and identification of the type and condition of these materials or units involves judgment, and boundaries between different soil, rock or geologic types or units may be transitional rather than abrupt. Accordingly, Golder does not warrant or guarantee the exactness of the descriptions.

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Special risks occur whenever engineering or related disciplines are applied to identify subsurface conditions and even a comprehensive investigation, sampling and testing program may fail to detect all or certain subsurface conditions. The environmental, geologic, geotechnical, geochemical and hydrogeologic conditions that Golder interprets to exist between and beyond sampling points may differ from those that actually exist. In addition to soil variability, fill of variable physical and chemical composition can be present over portions of the site or on adjacent properties. The professional services retained for this project include only the geotechnical aspects of the subsurface conditions at the site, unless otherwise specifically stated and identified in the report. The presence or implication(s) of possible surface and/or subsurface contamination resulting from previous activities or uses of the site and/or resulting from the introduction onto the site of materials from off-site sources are outside the terms of reference for this project and have not been investigated or addressed.

Soil and groundwater conditions shown in the factual data and described in the report are the observed conditions at the time of their determination or measurement. Unless otherwise noted, those conditions form the basis of the recommendations in the report. Groundwater conditions may vary between and beyond reported locations and can be affected by annual, seasonal and meteorological conditions. The condition of the soil, rock and groundwater may be significantly altered by construction activities (traffic, excavation, groundwater level lowering, pile driving, blasting, etc.) on the site or on adjacent sites. Excavation may expose the soils to changes due to wetting, drying or frost. Unless otherwise indicated the soil must be protected from these changes during construction.

Sample Disposal: Golder will dispose of all uncontaminated soil and/or rock samples 90 days following issue of this report or, upon written request of the Client, will store uncontaminated samples and materials at the Client's expense. In the event that actual contaminated soils, fills or groundwater are encountered or are inferred to be present, all contaminated samples shall remain the property and responsibility of the Client for proper disposal.

Follow-Up and Construction Services: All details of the design were not known at the time of submission of Golder's report. Golder should be retained to review the final design, project plans and documents prior to construction, to confirm that they are consistent with the intent of Golder's report.

During construction, Golder should be retained to perform sufficient and timely observations of encountered conditions to confirm and document that the subsurface conditions do not materially differ from those interpreted conditions considered in the preparation of Golder's report and to confirm and document that construction activities do not adversely affect the suggestions, recommendations and opinions contained in Golder's report. Adequate field review, observation and testing during construction are necessary for Golder to be able to provide letters of assurance, in accordance with the requirements of many regulatory authorities. In cases where this recommendation is not followed, Golder's responsibility is limited to interpreting accurately the information encountered at the borehole locations, at the time of their initial determination or measurement during the preparation of the Report.

Changed Conditions and Drainage: Where conditions encountered at the site differ significantly from those anticipated in this report, either due to natural variability of subsurface conditions or construction activities, it is a condition of this report that Golder be notified of any changes and be provided with an opportunity to review or revise the recommendations within this report. Recognition of changed soil and rock conditions requires experience and it is recommended that Golder be employed to visit the site with sufficient frequency to detect if conditions have changed significantly.

Drainage of subsurface water is commonly required either for temporary or permanent installations for the project. Improper design or construction of drainage or dewatering can have serious consequences. Golder takes no responsibility for the effects of drainage unless specifically involved in the detailed design and construction monitoring of the system.

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