



Appendix O

Transit and Road Cost by Corridor

TRANSIT TMP COST SUMMARY

Notes:

	B	Block Cost
	VivaNext	Viva Phase 2
	Block Cost (BRT)	\$ 30,000,000
	Block Cost (LRT)	\$ 50,000,000
	BRT To LRT Conversion	\$ 40,000,000

Roads Improvements To Support Transit Runningways (BRT)

Corridor	From	To	Length (KM)	Total Cost (\$M)	Source	Phasing
Bathurst/Dufferin Streets	Steeles Avenue	Major Mackenzie Dr	12.0	\$ 300.00	B	2031
Dufferin Street*	Steeles Avenue	Langstaff Road	4.0	\$ 60.00		
Dufferin Street	Langstaff Road	Major Mackenzie Drive	4.0	\$ 120.00		
Bathurst Street	Major Mackenzie Drive	Elgin Mills Road	2.0	\$ 60.00		
Bathurst Street	Elgin Mills Road	Gamble Road	2.0	\$ 60.00		
Highway 7	Highway 50	Reesor Rd	41.8	\$ 1,335.60	VivaNext	
H1	Highway 50	Pine Valley	6.8	\$ 171.80	VivaNext	2021
H2	Pine Valley	Yonge Street	13.8	\$ 517.60	VivaNext	5YR
H3	Yonge Street	Markham Centre	8.0	\$ 346.90	VivaNext	5YR
H4	Markham Centre	Reesor Rd	10.5	\$ 218.30	VivaNext	2021
H5	Reesor Road	York/Durham Line	2.7	\$ 81.00	B	2031
Jane Street	Highway 7	Major Mackenzie Dr	6.0	\$ 180.00	B	2021
Jane Street	Highway 7	Rutherford Road	4.0	\$ 120.00		
Jane Street	Rutherford Road	Major Mackenzie Drive	2.0	\$ 60.00		
Ninth Line	Steeles Avenue	Highway 7	4.7	\$ 141.00	B	2021
Ninth Line	Highway 7	Major Mackenzie Drive	4.8	\$ 144.00	B	2021
Leslie Street	Highway 7	Major Mackenzie Drive	4.1	\$ 123.00	B	2031
Warden Avenue	Steeles Avenue	Highway 407/Highway 7	4.0	\$ 92.85	VivaNext	2021
Green Lane	Yonge Street	Green Lane Go Terminal	2.5	\$ 75.00	B	2031
Yonge Street	Finch Avenue	Davis Drive	27.2	\$ 845.50	VivaNext	
Y2	Highway 7	19th Avenue	8.3	\$ 251.50	VivaNext	5YR
Y3	19th Avenue	Mulock	14.7	\$ 440.50	VivaNext	2021
Y3	Mulock	Davis Drive	2.1	\$ 90.00	VivaNext	5YR
Y3	Davis Drive	Green Lane	2.1	\$ 63.50	VivaNext	2031
Davis Drive	Yonge Street	South Lake Hospital	2.5	\$ 187.10	VivaNext	5YR
TOTAL				\$ 3,424.05		

* Assumed 50%

5 YR PHASING COSTS	\$ 1,393.10
2021 PHASING COSTS	\$ 1,388.45
2031 PHASING COSTS	\$ 642.50

Transit - Infrastructure Expansion (SUBWAY & LRT) - PHASE 1

Name	From	To	Length (KM)	Total Cost (\$M)	Source	Phasing
Don Mills	Steeles Ave	Highway 7	4.4	\$ 217.8	B	2021
Jane	Steeles Ave	Highway 7	2.1	\$ 105.5	B	2021
Spadina Subway ¹	Steeles Ave	Vaughan Corp. Centre	8.5	\$ 1,085.0	VivaNext	5YR
Yonge Subway	Steeles Ave	Richmond Hill Centre	6.5	\$ 1,810.5	VivaNext	5YR
Major Mackenzie Dr	Ninth Line	Weston Road	27.3	\$ 1,365.0	B	2021
Steeles Avenue ²	Highway 27	Ninth Line	32.8	\$ 820.0	B	2031
TOTAL				\$ 5,403.8		

Transit - Infrastructure Expansion (SUBWAY & LRT) - PHASE 2

Name	From	To	Length (KM)	Total Cost (\$M)	Source	Phasing
Davis	Yonge St	South Lake Hospital	2.5	\$ 100.00	B	2031
Highway 7	Yonge St	Ninth Line	16.5	\$ 660.00	B	2031
Jane	Highway 7	Major Mackenzie Dr	6.2	\$ 249.40	B	2031
Yonge	Highway 7	Davis Drive	24.8	\$ 992.00	B	2031
Facilities (Yonge St Tunnel and Highway 404 Grade Separation)			0.0	\$ 214.70		2031
TOTAL				\$ 2,216.10		

¹York's share of Spadina subway cost is \$391M (Gross Cost \$1,085B)

5YR PHASING COSTS	\$ 2,895.5
2021 PHASING COSTS	\$ 1,688.3
2031 PHASING COSTS	\$ 3,036.1

²York's share of Steeles Avenue LRT cost is 50%

Transit Expansion

Item	2021 Phasing (\$M)	2031 Phasing (\$M)	Total Cost (\$M)
O&M - Conventional	\$ 197.00	\$ 197.00	\$ 394.00
Stations	\$ 14.00	\$ -	\$ 14.00
O&M - BRT	\$ 145.25	\$ 145.25	\$ 290.50
O&M - LRT Conversion	\$ -	\$ 113.00	\$ 113.00
Stations BRT	\$ 23.80	\$ -	\$ 23.80
Vehicles BRT	\$ 166.90	\$ 166.90	\$ 333.80
Minor Transit Cap (i.e. Shelters)	\$ 15.00	\$ 15.00	\$ 30.00
YRT Fleet Expansion	\$ 128.40	\$ 128.40	\$ 256.80
Total Cost	\$ 690.35	\$ 765.55	\$ 1,455.90

Transit Rehab and Replacement

Item	2021 Phasing (\$M)	2031 Phasing (\$M)	Total Cost (\$M)
Rapid Transit	\$ 783.00	\$ 783.00	\$ 1,566.00
Conventional Transit	\$ 293.40	\$ 293.40	\$ 586.80
Total Cost	\$ 1,076.40	\$ 1,076.40	\$ 2,152.80

2009 - 2031 Road Construction Program

LEGEND:

	Addition from TMP
	Deleted
	IP Detailed Calculations

2006_ID	Road	From	To	Description of Work	In 2008 TMP Update?	Comment	York Region Cost	Phasing
98210	14th Avenue	Ninth Line	Reesor Road	Widen to 4 lanes	y	4 lane	\$ 11,097,000	2021
99840	14th Avenue	Markham Scarborough Link		Build Grade separation	y	Grade Separation	\$ 8,700,813	2021
80790	14th Avenue	Reesor Road	York/Durham Line	Widen to 4 lanes	y	4 lane	\$ 7,160,000	2021
	14th Avenue			Jog Elimination at York/Durham Line	y	Miscellaneous	\$ 1,963,190	2021
165	14th Avenue	Markham Road/Highway 48	Ninth Line	Widen to 4 lanes	y	TP	\$ 11,413,534	2021
	14th Avenue	Warden Avenue	Highway 48	Transit improvements	y	TP	\$ 3,000,000	2021
85590	16th Avenue/Carrville Road	Bathurst	Yonge Street	Widen to 6 lanes	y	TP	\$ 9,935,000	2021
85600	16th Avenue	Yonge Street	Bayview Avenue	Widen to 6 lanes	y	TP	\$ 16,947,000	5YR
99180	16th Avenue	Bayview Avenue	Highway 404	Widen to 6 lanes	y	TP	\$ 10,760,000	5YR
99510	16th Avenue	Highway 404	Woodbine Avenue	Widen to 6 lanes	y	TP	\$ 6,239,287	2021
82700	16th Avenue	Woodbine Avenue	Warden Avenue	Widen to 6 lanes	y	TP	\$ 14,112,000	2021
83390	16th Avenue	Warden Avenue	Kennedy Road	Widen to 6 lanes	y	TP	\$ 14,276,000	2021
84170	16th Avenue	Kennedy Road	McCowan Road	Widen to 6 lanes	y	TP	\$ 13,028,000	2021
106	16th Avenue	McCowan Road	Ninth Line	Widen to 6 lanes	y	TP	\$ 19,879,419	2021
99520	16th Avenue	New Markham Bypass	York/Durham Line	Reconstruction to 2 lanes	y	Reconstruction	\$ 17,566,019	5YR
	19th Ave / Gamble Sdrd	Bathurst Street	Yonge Street	Widen to 4 lanes	y	TP	\$ 7,625,587	5YR
98340	19th Ave / Gamble Sdrd	Yonge Street	Bayview Avenue	Widen to 4 lanes	y	TP	\$ 10,684,672	5YR
	19th Ave / Gamble Sdrd	Bayview Avenue	Highway 404	Widen to 4 lanes	y	TP	\$ 7,784,090	2021
	19th Ave / Gamble Sdrd			Grade Separation west of Bayview Avenue	y	TP	\$ 12,068,393	5YR
166	Aurora Road	East of Woodbine Avenue		Build CNR grade separation	y	Grade Separation	\$ 8,123,949	2031
109	Baseline Road	Dalton Road	McCowan Road	Widen to 4 lanes	y	4 lane	\$ 6,439,134	2021
96020	Bathurst Street	Green Lane West	Yonge Street	Reconstruct 2 lanes and bridge work	y	New Link	\$ 12,371,709	5YR
81390	Bathurst Street	Highway 7	Rutherford Road	Widen to 6 lanes	y	TP	\$ 11,970,000	5YR
82860	Bathurst Street	Rutherford Road	Major Mackenzie Dr	Widen to 6 lanes	y	TP	\$ 9,459,735	5YR
83340	Bathurst Street	CNR north of Steeles Avenue	Centre Street	Widen to 6 lanes	y	TP	\$ 4,610,000	2021
	Bathurst Street	CNR north of Steeles Avenue		Widen CNR Grade Separation to 6 lanes	y	TP	\$ 11,455,892	2021
	Bathurst Street	Major Mackenzie Drive	19th Avenue/Gamble Road	Widening to 6 lanes	y	TP	\$ 14,927,199	2021
99210	Bayview Avenue	Bloomington Road	Wellington Street	Widen to 4 lanes	y	4 lane	\$ 10,681,342	2021
80670	Bayview Avenue	19th Avenue	Stouffville Road	Widen to 4 lanes	y	4 lane	\$ 7,531,656	2021
82740	Bayview Avenue	16th Avenue	Major Mackenzie Drive	Widen to 6 lanes	y	TP	\$ 12,444,000	2021
80680	Bayview Avenue	Elgin Mills Road	19th Avenue	Widen to 4 lanes	y	TP	\$ 11,867,610	2021
97000	Bayview Avenue	Highway 407	16th Avenue	Widen to 6 lanes	y	TP	\$ 9,059,130	5YR
81420	Bayview Avenue	John Street	Highway 407	Widen to 6 lanes	y	TP	\$ 28,092,176	2021
98690	Bayview Avenue	Stouffville Road	Bloomington Road	Widen to 4 lanes	y	4 lane	\$ 6,516,000	2021
110	Bayview Avenue	Major Mackenzie Drive	19th Avenue	Widen to 6 lanes	y	TP	\$ 17,732,577	2021
111	Bayview Avenue	Steeles Avenue	John Street	Widen to 6 lanes (incl. CNR GS)	y	TP	\$ 15,672,188	2031
97080	Bloomington Road	Bayview Avenue	Highway 404	Widen to 4 lanes	y	4 lane	\$ 15,702,556	5YR
97010	Bloomington Road	Yonge Street	Bayview Avenue	Widen to 4 lanes	y	4 lane	\$ 11,567,673	5YR
99530	Bloomington Road	Yonge Street	Bathurst Street	Widen to 4 lanes	y	4 lane	\$ 11,252,882	5YR
168	Bloomington Rd	Highway 404	York/Durham Line	Widen to 4 lanes	y	4 lane	\$ 46,872,827	2031
	Davis Drive	South Lake Hospital	Highway 404	Transit improvements	y	TP	\$ 1,500,000	2021
84200	Doane Road	Leslie Street	Woodbine Avenue	Realign to accommodate 404 Interchange	y	Interchange	\$ 23,930,000	2021
113a	Doane Road	Yonge Street	Leslie	Widen / Construct 4 lanes	y	4 lane	\$ 27,091,953	2021
113b	Doane Road			Construct new Highway 404 Interchange	y	Interchange	\$ 11,126,082	2021
82730	Dufferin Street	Major Mackenzie Drive	Teston Road	Widen to 4 lanes	y	4 lane	\$ 5,655,000	2021
169	Dufferin Street	North of King Rd		Build CNR grade separation	y	Grade Separation	\$ 7,691,702	2031
170	Dufferin Street	Teston Road	King Road	Widen to 4 lanes	y	4 lane	\$ 10,030,158	2031
	Dufferin Street	Steeles Avenue	Langstaff Road	Widen to 6 lanes	y	TP	\$ 1,159,015	5YR
	Dufferin Street	Langstaff Road	Major Mackenzie Drive	Widen to 6 lanes	y	TP	\$ 12,626,449	2021
171	Elgin Mills Road	East of Yonge St		Build CNR grade separation (Btw Yonge/Bayview)	y	Grade Separation	\$ 8,423,468	2021
	Elgin Mills Road	Bathurst Street	Yonge Street	Widen to 4 lanes	y	4 lane	\$ 7,253,264	2031
	Glenwoods Avenue	Woodbine Avenue	Highway 404 Extension	Widen to 4 lanes	y	4 lane	\$ 2,023,391	2031
	Glenwoods Avenue			Jog Elimination (Glenwoods/Woodbine)	y	Miscellaneous	\$ 3,926,380	2031
	Green Lane Road	Green Lane GO Station	Highway 404	Widen to 6 lanes	y	TP	\$ 1,996,724	2021
	Green Lane Road	Yonge Street	Green Lane GO Terminal	Widen to 6 lanes	y	TP	\$ 19,152,186	5YR
98180	Highway 7	Warden Avenue	Kennedy Road	Widen to 6 lanes	y	TP	\$ 11,754,725	5YR
	Highway 7			Grade separation (west of Main Street/Unionville)	y	Grade Separation	\$ 18,073,076	2031
	Highway 9	Highway 400	Yonge Street	Transit improvements	y	TP	\$ 4,500,000	2031

2009 - 2031 Road Construction Program

LEGEND:

	Addition from TMP
	Deleted
	IP Detailed Calculations

2006_ID	Road	From	To	Description of Work	In 2008 TMP Update?	Comment	York Region Cost	Phasing
115	Highway 27	CPR south of Rutherford		Widen CPR Grade Separation to 6 lanes	y	TP	\$ 2,767,328	2031
116	Highway 27	Highway 7	Rutherford Road	Widen to 6 lanes	y	TP	\$ 17,717,848	2031
117	Highway 27	Steeles Avenue	Highway 7	Widen to 6 lanes (incl. CNR GS)	y	TP	\$ 10,384,386	2021
172	Highway 27	Major Mackenzie Drive	North of King Road	Widen to 4 lanes	y	4 lane	\$ 24,315,559	2021
173	Highway 27	Rutherford Road	Major Mackenzie Drive	Widen to 6 lanes	y	TP	\$ 8,357,786	2031
	Highway 48	Major Mackenzie Drive	Stouffville Road	Widen to 4 lanes	y	Contingency	\$ 14,899,389	2021
83890	Highway 50	Rutherford Road	Nashville Road	Widen to 6 lanes	y	6 lane	\$ 3,523,000	5YR
83900	Highway 50	Nashville Road	Mayfield Road	Widen to 6 lanes	y	6 lane	\$ 5,718,000	5YR
118	Highway 50	Steeles Avenue	Highway 7	Widen to 6 lanes	N	6 lane	\$ 28,640,249	2031
119	Islington Avenue	North of Steeles Ave		Build CP grade separation	y	Grade Separation	\$ 8,861,722	2031
176	Jane Street	Teston Road	King/Vaughan Line	Widen to 4 lanes	y	4 lane	\$ 7,984,153	2031
96770	Keele Street	Steeles Avenue	Highway 7	Widen to 6 lanes (incl. Widening CNR GS)	y	TP	\$ 10,559,851	5YR
84120	Keele Street	Highway 7	Rutherford Road	Widen to 6 lanes	y	TP	\$ 14,015,000	2021
121	Keele Street	15th Sideorad	Lloydton/Aurora Rd	Reconstruct to 2 paved lanes	y	Reconstruction	\$ 10,330,120	2031
123	Keele Street	Rutherford Rd	S of Major Mackenzie Dr	Widen to 6 lanes	y	TP	\$ 6,071,267	2021
177	Keele Street	King Road	15th Sideroad	Widen to 4 lanes	y	4 lane	\$ 6,101,606	2021
99770	Kennedy Road	CNR North of Steeles Ave		Build CNR grade separation	y	Grade Separation	\$ 11,391,313	2021
99760	Kennedy Road	Denison St	Highway 407	Widen to 6 lanes	y	TP	\$ 16,460,560	2021
99240	Kennedy Road	Steeles Avenue	Denison St	Widen to 6 lanes	y	TP	\$ 3,399,792	2021
124	Kennedy Road	Aurora Road	Davis Drive	Reconstruct to 2 paved lanes	y	Reconstruction	\$ 16,768,900	2021
126	Kennedy Road	North of Highway 7		Build CNR grade separation	y	Grade Separation	\$ 7,851,684	2021
127	Kennedy Road	Old Homestead Rd	Metro Road	Reconstruct to 2 paved lanes	y	Reconstruction	\$ 11,401,484	2021
128	Kennedy Road	Ravenshoe Rd	Old Homestead Road	Reconstruct to 2 paved lanes	y	Reconstruction	\$ 12,541,346	2021
	Kennedy Road	Highway 7	Major Mackenzie Drive	Transit improvements	y	TP	\$ 2,000,000	2021
	Kennedy Road	Highway 407	Highway 7	Widen to 6 lanes	y	TP	\$ 4,300,000	2021
179	Kennedy Road	Major Mackenzie Drive	New Markham Bypass	Widen to 4 lanes	y	4 lane	\$ 3,416,247	2021
83020	King Road	Highway 400	Highway 27	Widen to 4 lanes	y	4 lane	\$ 7,140,000	5YR
129	King Road	Highway 27	York/Peel Boundary	Widen to 4 lanes	y	4 lane	\$ 13,379,931	2031
	King/Vaughan Line	Highway 400	Bathurst Street	Widen to 4 lanes	y	Contingency	\$ 15,028,539	2031
98570	Langstaff Road	Highway 27	Highway 50	Widen to 4 lanes	y	4 lane	\$ 14,792,896	5YR
99540	Langstaff Road	Dufferin Street	Keele Street	Widen to 4 lanes	y	4 lane	\$ 8,980,018	2021
83360	Leslie Street	Highway 7	16th Avenue	Widen to 6 lanes	y	TP	\$ 4,505,000	2021
83370	Leslie Street	16th Avenue	Major Mackenzie Drive	Widen to 6 lanes	y	TP	\$ 8,940,000	2021
	Leslie Street	Major Mackenzie Drive	Elgin Mills Road	Transit improvements	y	TP	\$ 1,000,000	2021
98980a	Leslie Street	Elgin Mills Road	19th Avenue	Widen to 4 lanes	y	TP	\$ 5,958,839	5YR
98980b	Leslie Street	19th Avenue	Stouffville Road	Reconstruction to 2 lanes	y	Reconstruction	\$ 2,932,152	2021
97150	Leslie Street	Bethesda Sideroad	Bloomington Road	Reconstruct to 2 paved lanes	y	Reconstruction	\$ 8,710,454	2021
84180	Leslie Street	500 m N of Wellington St	St. Johns Sideroad	Widen to 4 lanes	y	4 lane	\$ 6,430,000	5YR
84190	Leslie Street	St. Johns Sideroad	Mulock Drive	Widen to 4 lanes	y	4 lane	\$ 6,905,000	5YR
131	Leslie Street	Bloomington Road	Wellington Street	Reconstruct to 2 paved lanes	y	Reconstruction	\$ 8,932,499	2021
132	Leslie Street	Stouffville Rd	1 km south	Jog elimination and grade separation	y	Grade Separation	\$ 4,846,244	2021
	Leslie Street	Mount Albert	Queensville Sideroad	Transit improvements	y	TP	\$ 2,000,000	2021
98320	Leslie Street	Green Lane West	Mount Albert Road - Queensville	3 to 4 lane widening	y	TP	\$ 6,975,186	2021
81320	Major Mackenzie Drive	Weston Road	Highway 27	Widen to 6 lanes	y	TP	\$ 13,979,490	5YR
85650	Major Mackenzie Drive	Highway 27	Bolton GO Line (CPR)	Widen to 6 lanes and jog elimination	y	TP	\$ 25,708,000	5YR
83450	Major Mackenzie Drive	Bolton GO Line (CPR)	Highway 50	Widen to 6 lanes	y	TP	\$ 21,175,000	2021
98700	Markham Bypass Extension	Highway 407	Ninth Line	Construct new 4 lane road	y	New Link	\$ 41,316,077	5YR
182	Markham Bypass	Woodbine Avenue	Highway 48	Construct new 4 lane road/New Link	y	TP	\$ 33,779,990	2031
	Markham Bypass	Highway 404	Woodbine Avenue	Construct new 4 lane road/New Link	y	TP	\$ 3,124,811	2021
99800	McCowan Road	North of Bullock Dr		Build CNR grade separation	y	TP	\$ 11,148,163	2021
99550	McCowan Road	Steeles Avenue	14th Avenue	Widen to 6 lanes	y	TP	\$ 5,214,874	2021
99780	McCowan Road	14th Avenue	Bullock Drive	Widen to 6 lanes	y	TP	\$ 6,475,000	5YR
99790	McCowan Road	Bullock Drive	16th Avenue	Widen to 6 lanes	y	TP	\$ 5,477,953	2021
203	McCowan Road	Davis Drive	Ravenshoe Road	Reconstruct to 2 lanes	y	Reconstruction	\$ 22,191,716	2021
183	McCowan Road	Major Mackenzie Drive	Stouffville Road	Widen to 4 lanes	y	4 lane	\$ 15,720,846	2031
	McCowan Road	16th Avenue	Major Mackenzie Drive	Transit improvements	y	TP	\$ 1,000,000	2021

2009 - 2031 Road Construction Program

LEGEND:

	Addition from TMP
	Deleted
	IP Detailed Calculations

2006_ID	Road	From	To	Description of Work	In 2008 TMP Update?	Comment	York Region Cost	Phasing
137	Metro Road	Old Homestead Road	Clarly Drive	Reconstruct / provide turning lanes	y	Reconstruction	\$ 1,391,480	2021
91120	Metro Road	Morton Avenue	Old Homestead Road	Reconstruct / provide turning lanes	y	Reconstruction	\$ 6,836,000	2021
80720	New Markham Bypass (Don Cousen Pkwy)	Major Mackenzie Drive	Ninth Line	Construct new 4 lane road	y	New Link	\$ 15,810,089	5YR
	New Markham Bypass	16th Avenue	Ninth Line	Widen to 4 lanes	y	4 lane	\$ 5,346,131	2021
	New Markham Bypass	Ninth Line	Major Mackenzie Drive	Widen to 4 lanes	y	4 lane	\$ 4,930,509	5YR
85780	Ninth Line	Stouffville Road		Jog Elimination	y	Miscellaneous	\$ 9,975,000	5YR
138	Ninth Line	Markham By-pass	Stouffville Road	Widen to 4 lanes	y	TP	\$ 24,095,023	5YR
81330	Pine Valley Drive	Rutherford Road	Major Mackenzie Drive	Widen to 4 lanes	y	4 lane	\$ 15,520,132	2021
140	Pine Valley Drive	Major Mackenzie Drive	Teston Road	Widen to 4 lanes	y	4 lane	\$ 8,951,494	2021
	Pollock Road	Woodbine Avenue	Highway 404 Extension	Widen to 4 lanes	y	4 lane	\$ 3,280,206	2031
	Queensville Sideroad	Highway 404	Woodbine Avenue	Widen to 4 lanes	y	4 lane	\$ 1,881,124	2021
	Queensville Sideroad	Leslie Street	Highway 404	Widen to 4 lanes	y	TP	\$ 2,028,555	2021
139	Old Homestead Road	Metro Road	The Queensway North	Reconstruction to 2 lanes	y	Reconstruction	\$ 5,692,794	2021
142	Ravenshoe Road	Weir's Sideroad	York/Durham Line	Reconstruct to 2 paved lanes	y	Reconstruction	\$ 18,895,461	5YR
85580	Rutherford Road	Bathurst Street	Dufferin Street	Widen to 6 lanes	y	TP	\$ 10,300,000	2021
84130	Rutherford Road	East of Keele Street		Build CNR grade separation	y	Grade Separation	\$ 11,376,876	5YR
84140	Rutherford Road	Dufferin Street	Jane Street	Widen to 6 lanes	y	TP	\$ 24,592,914	5YR
99360	Rutherford Road	Jane Street	Weston Road	Widen to 6 lanes	y	TP	\$ 896,533	2021
83430	Rutherford Road	Weston Road	Pine Valley Drive	Widen to 6 lanes	y	TP	\$ 6,771,816	2021
199	Rutherford Road	Pine Valley Drive	Highway 27	Widen to 6 lanes	y	TP	\$ 20,930,933	2021
	Rutherford Road	Highway 27	Highway 50	Widen to 6 lanes	y	TP	\$ 10,387,355	2031
	Rutherford Road			Build CNR grade separation (West of Hwy 27)	y	Grade Separation	\$ 13,024,870	2031
201	Second Concession	Green Lane	Queensville Sideroad	Reconstruct to 2 lanes	y	Reconstruction	\$ 18,306,664	5YR
202	Second Concession	Green Lane	Doane Road	Widen to 4 lanes	y	4 lane	\$ 25,211,794	2021
188	Simcoe Landing Area	Impr. from Highway 404	Ravenshoe Road	Intersection and capacity improvements	y	4 lane	\$ 5,051,385	5YR
97100	St. John's Sideroad	Bayview Avenue	Woodbine Avenue	Reconstruct to 2 paved lanes	y	Reconstruction	\$ 11,187,209	5YR
	St. John's Sideroad	Bayview Avenue	Woodbine Avenue	Widen to 4 lanes	y	4 lane	\$ 8,843,671	2021
147	St. John's Sideroad	Yonge Street	Bathurst Street	Widen to 4 lanes	y	4 lane	\$ 5,796,452	2021
148	St. John's Sideroad/Highway 404 Interchange	Leslie Street	Highway 404	New Interchange and Widen to 4 lanes	y	Interchange	\$ 4,703,346	2031
97120	Stouffville Road	Highway 404	Warden Avenue	Widen to 4 lanes	y	4 lane	\$ 8,079,149	5YR
81830	Stouffville Road	Warden Avenue	Highway 48	Widen to 4 lanes	y	4 lane	\$ 9,002,597	5YR
149	Stouffville Road	Yonge Street	Bayview Avenue	Widen to 4 lanes	y	4 lane	\$ 4,969,871	2031
	Stouffville Road	Bayview Avenue	Highway 404	Widen to 4 lanes	y	4 lane	\$ 10,407,668	2021
80750	Teston Road	Bathurst Street	Dufferin Street	Widen to 4 lanes	y	4 lane	\$ 6,567,652	2021
150	Teston Road	Weston Road	Pine Valley Drive	Widen to 4 lanes	y	4 lane	\$ 10,549,642	2021
190	Teston Road	Dufferin Street	Keele Street	New 4 lane road	y	New Link	\$ 6,887,411	2021
82690	Vaughan Corporate Centre	Highway 400 / 7 ramps		Interchange Improvements	y	Interchange	\$ 5,253,143	5YR
99880	Vivian Road	Highway 48	York/Durham Line	Reconstruct to 2 paved lanes	y	Reconstruction	\$ 4,002,529	5YR
98670	Warden Avenue	16th Avenue	Major Mackenzie Drive	Widen to 4 lanes	y	TP	\$ 13,166,203	2021
83410	Warden Avenue	Apple Creek	16th Avenue	Widen to 6 lanes	y	TP	\$ 6,918,323	2021
	Warden Avenue	Apple Creek	16th Avenue	Widen to 6 lanes	y	TP	\$ 1,159,015	2021
204	Warden Avenue	Ravenshoe Road	Baseline Road	Reconstruct to 2 lanes	y	Reconstruction	\$ 18,900,295	2021
191	Warden Avenue	Major Mackenzie Drive	Bloomington Road	Widen to 4 lanes	y	4 lane	\$ 22,687,887	2031
81480	Weston Road	Steeles Avenue	Highway 7	Widen to 6 lanes	y	TP	\$ 28,138,761	2021
82720	Weston Road	Highway 7	Rutherford Road	Widen to 6 lanes	y	TP	\$ 12,923,443	2021
81820	Weston Road	Major Mackenzie Drive	Teston Road	Widen to 4 lanes	y	4 lane	\$ 7,230,846	2021
153	Weston Road	Rutherford Road	Major Mackenzie Drive	Widen to 6 lanes	y	TP	\$ 9,496,376	2021
193	Weston Road	Teston Road	King/Vaughan Line	Widen to 4 lanes	y	4 lane	\$ 6,211,068	2031
98680	Woodbine Avenue	Major Mackenzie Drive	19th Avenue	Widen to 4 lanes/Realignment	y	4 lane	\$ 8,157,747	5YR
96700	Woodbine Avenue	Ravenshoe Road	Morton Avenue/Pollock Drive	Widen to 4 lanes	y	4 lane	\$ 18,615,094	5YR
194	Woodbine Avenue	19th Avenue	Bloomington Road	Widen to 4 lanes	y	4 lane	\$ 30,282,331	2031
156	Woodbine Avenue	Morton Avenue	Old Homestead Road	Widen to 4 lanes	y	4 lane	\$ 3,864,889	2021
	Woodbine Avenue	Highway 7	Major Mackenzie Drive	Widen to 6 lanes	y	TP	\$ 15,099,046	2021
	Yonge Street	Davis Drive	Green Lane	Widen to 6 lanes	y	TP	\$ 7,357,888	2021
91100	York/Durham Line	Steeles Avenue	Highway 7	Widen to 4 lanes	y	4 lane	\$ 20,821,264	5YR
159	York/Durham Line	Highway 7	Stouffville Road	Reconstruct to 2 lanes	y	Reconstruction	\$ 18,151,891	2021
160	York/Durham Line	Stouffville Road	Bloomington Road	Reconstruct to 2 lanes	y	Reconstruction	\$ 8,602,018	2021
195	York/Durham Line	Highway 7	Stouffville Road	Widen to 4 lanes	y	4 lane	\$ 18,440,708	2031

2009 - 2031 Road Construction Program

LEGEND:

	Addition from TMP
	Deleted
	IP Detailed Calculations

2006_ID	Road	From	To	Description of Work	In 2008 TMP Update?	Comment	York Region Cost	Phasing
103	Various Midblock Highway Crossings						\$ -	
82670		Highway 400	Applewood Cr.	Midblock Highway Crossings	y	Midblock Crossing	\$ 20,000,000	5YR
82680		Highway 404	North of Highway 7	Midblock Highway Crossings	y	Midblock Crossing	\$ 19,600,000	5YR
84160		Highway 404	North of Major Mackenzie Drive	Midblock Highway Crossings	y	Midblock Crossing	\$ 8,300,000	2021
83400		Highway 407	Birchmount Road	Midblock Highway Crossings	y	Midblock Crossing	\$ 19,900,000	5YR
		Highway 400	Block 33 south of Teston Road	Midblock Highway Crossings	y	Midblock Crossing	\$ 15,800,000	5YR
		Highway 400	Block 32 south of Major Mackenzie Dr	Midblock Highway Crossings	y	Midblock Crossing	\$ 19,700,000	2021
81430		Highway 407/Highway 7	Cedar Avenue	Midblock Highway Crossings	y	Midblock Crossing	\$ 9,200,000	2021
		Highway 404	North of Green Lane Road	Midblock Highway Crossings	y	Midblock Crossing	\$ 20,500,000	2021
		Highway 404	South of 19th Avenue	Midblock Highway Crossings	y	Midblock Crossing	\$ 20,200,000	2021
		Highway 404	Between 16th Ave and Major Mac	Midblock Highway Crossings	y	Midblock Crossing	\$ 20,200,000	2031
		Highway 404	Queensville Sideroad	Midblock Highway Crossings	y	Midblock Crossing	\$ 10,000,000	2031
		Highway 400	King/Vaughan Line/Kirkby	Midblock Highway Crossings	y	Midblock Crossing	\$ 19,900,000	2031
101	General road improvements	0 - 10 years		Intersection and misc capital improvements	y	Miscellaneous	\$ 121,829,674	5YR
102	General road improvements	0 - 10 years		Streetscaping	y	Miscellaneous	\$ 34,410,000	5YR
143	Remaining Gravel Roads	11 - 20 years		Reconstruct to 2 paved lanes	y	Reconstruction	\$ 1,410,810	2021
144	Remaining Surface Treated Roads	11 - 20 years		Reconstruct to 2 paved lanes	y	Reconstruction	\$ 4,608,646	2021
	Urbanization Costs				y	Miscellaneous	\$ 59,141,798	2021
162	General road improvements	11 - 20 years		Intersection and misc capital improvements	y	Miscellaneous	\$ 68,820,000	2021
163	General road improvements	11 - 20 years		Streetscaping	y	Miscellaneous	\$ 34,410,000	2021
186	Remaining Gravel Roads			Reconstruct to 2 paved lanes	y	Reconstruction	\$ 1,410,810	2031
187	Remaining Surface Treated Roads			Reconstruct to 2 paved lanes	y	Reconstruction	\$ 4,608,646	2031
197	General road improvements	20-30 years		Reconstruction, int, misc capital improvements	y	Miscellaneous	\$ 68,820,000	2031
198	General road improvements	20-30 years		Streetscaping	y	Miscellaneous	\$ 27,528,000	2031
	DELETED						\$ -	
108	16th Avenue	East of Ninth Line	New Markham Bypass	Widen to 4 lanes	N	Done	\$ -	
98330	19th Ave / Gamble Sdrd	Bathurst Street	Yonge Street	Reconstruct to 2 lanes	N	Done	\$ -	
80610	Bathurst Street	King Road	Wellington Street	Widen to 4 lanes	N	Done	\$ -	
80630	Bathurst Street	Mulock Drive	Highway 9	Widen to 4 lanes	N	Done	\$ -	
80620	Bathurst Street	Wellington Street	Mulock Drive	Widen to 4 lanes	N	Done	\$ -	
96660	Bayview Avenue	Wellington Street	Mulock Drive	Widen to 4 lanes	N	Done	\$ -	
112	Black River Road	Dalton Road	Baseline Road	Construct new 2 lane road	N	Under construction	\$ -	
96790	Dufferin Street	Rutherford Road	Major Mackenzie Drive	Widen to 4 lanes	N	Done	\$ -	
97060	Dufferin Street	Steeles Avenue	Glen Shields North	Widen to 6 lanes (incl. Widening CNR GS)	N	Under construction	\$ -	
114	Glenwoods Ave	The Queensway	Woodbine Avenue	Widen to 4 lanes	N	Under construction	\$ -	
81810	Highway 50	Highway 7	Rutherford Road	Widen to 6 lanes	N	Done	\$ -	
88170	Islington Avenue	Langstaff Road	Rutherford Road	Widen to 4 lanes	N	Done	\$ -	
175	Jane Street	Major Mackenzie Drive	Teston Road	Widen to 6 lanes	N	Under construction	\$ -	
125	Kennedy Road	Highway 7	16th Avenue	Widen to 6 lanes	N	Under construction	\$ -	
178	Kennedy Road	Aurora Road	Davis Drive	Widen to 4 lanes	N	Under construction	\$ -	
97260	Langstaff Road	Weston Road	Islington Avenue	Widen to 4 lanes	N	Done	\$ -	
80590	Leslie Street	Wellington Street	500 m north	Widen to 4 lanes	N	Done	\$ -	
180	Leslie Street	Mount Albert	Ravenshoe Road	Widen to 4 lanes	N	Under construction	\$ -	
83380	Markham Road	Steeles Avenue	Highway 407	Widen to 6 lanes (incl. CNR GS)	N	Under construction	\$ -	
136	Markham Road	South of 14th Ave		Widen CNR Grade Separation to 6 lanes	N	Done	\$ -	
80710	New Markham Bypass	Highway 7	16th Avenue	Construct new 4 lane road	N	Done	\$ -	
184	New Markham Bypass	Steeles Avenue	16th Avenue	Widen to 6 lanes	N	Under construction	\$ -	
99850	Ninth Line	Highway 407	Markham Scarborough Link	Widen to 4 lanes and realignment	N	Done	\$ -	
141	Pine Valley Drive	Steeles Avenue	Highway 7	Widen to 6 lanes (incl. CNR GS)	N	Under construction	\$ -	
96540	Ravenshoe Road	Prout Road	Weir's Sdrd	Reconstruct to 2 paved lanes	N	Done	\$ -	

2009 - 2031 Road Construction Program

LEGEND:

	Addition from TMP
	Deleted
	IP Detailed Calculations

2006_ID	Road	From	To	Description of Work	In 2008 TMP Update?	Comment	York Region Cost	Phasing
185	Rutherford Road	Highway 50	Highway 27	Widen to 6 lanes	N	Under construction	\$ -	
	Sharon Area	Road improvements		Various Road Improvements?	N	Under construction	\$ -	
96550	St. John's Sideroad	Yonge Street	Bayview Avenue	Widen to 4 lanes	N	Done	\$ -	
189	Stouffville Road	Highway 48	East of 9th Line	Widen to 4 lanes	N	Done	\$ -	
98610	Teston Road	Weston Road	550 m west of Jane Street	Widen to 4 lanes inc. Hwy 400 Interchange	N	Done	\$ -	
80730	Teston Road	550 m west of Jane Street	Keele Street	Widen to 4 lanes	N	Done	\$ -	
98990	Warden Avenue	Highway 407	Apple Creek	Widen to 6 lanes	N	Done	\$ -	
192	Wellington Street	Highway 404	Highway 48	Widen to 4 lanes	N	Under construction	\$ -	
96680	Weston Road	Rutherford Rd	Major Mackenzie Drive	Widen to 4 lanes	N	Done	\$ -	
154	Woodbine Avenue	Green Lane	Ravenshoe Road	Widen to 4 lanes	N	Under construction	\$ -	
155	Woodbine Avenue	Highway 7	Major Mackenzie Drive	Widen to 6 lanes	N	Under construction	\$ -	
81360	York/Peel Boundary Area	Road improvements		New 4 lane road(s)	N	Done	\$ -	
82840		Highway 407	Rodick Road	Midblock Highway Crossings	N	Done	\$ -	
							\$ 2,543,151,020	

			5YR	2021	2031
TOTAL TPI COSTS	\$	803,331,881	\$ 232,009,561	\$ 478,139,826	\$ 93,182,495
TOTAL MISCELLANEOUS COSTS	\$	430,824,041	\$ 166,214,674	\$ 164,334,987	\$ 100,274,380
TOTAL MIDBLOCK CROSSINGS/CONTINGENCY	\$	233,227,928	\$ 75,300,000	\$ 92,799,389	\$ 65,128,538.82
TOTAL 2-4 LANE WIDENING	\$	572,742,403	\$ 148,448,752	\$ 235,157,008	\$ 189,136,643
TOTAL 6 LANE WIDENING (SPECIAL CASE)	\$	37,881,249	\$ 9,241,000	\$ -	\$ 28,640,249.34
TOTAL INTERCHANGE COSTS	\$	45,012,571	\$ 5,253,143	\$ 35,056,082	\$ 4,703,346.00
TOTAL GRADE SEPARATION COSTS	\$	108,365,717	\$ 11,376,876	\$ 41,213,522	\$ 55,775,318.45
TOTAL RECONSTRUCTION COSTS	\$	235,379,942	\$ 69,957,882	\$ 149,072,485	\$ 16,349,576
TOTAL NEW LINK COSTS	\$	76,385,286	\$ 69,497,875	\$ 6,887,411	\$ -
TOTAL PHASING COSTS	\$	2,543,151,020	\$ 787,299,763	\$ 1,202,660,711	\$ 553,190,546

State of Good Repair and Miscellaneous Improvements

Roads - Infrastructure

State of Good Repair and Miscellaneous Improvements

	2009-2018	2019-2025	2026-2031	Total (\$M)
Bridge & Culvert Rehabilitation	17.1	32.5	20.0	69.6
Various Road Improvements	39.5	55.0	28.0	122.5
Various Road Resurfacing	181.6	240.0	144.0	565.6
Miscellaneous Improvements				137.3
Major Bridge Reconstruction				100.0
	238.3	327.5	192.0	995.1

2021 PHASING COSTS \$ 520.70
2031 PHASING COSTS \$ 474.40