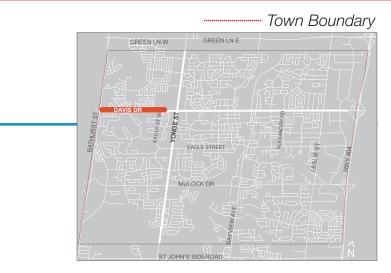
Davis Drive West Davis Drive West Corridor 4.4

INTRODUCTION 4.4.1

The Davis Drive West corridor is marked by differing land uses, with low to mid density residential as well as commercial mixed use land uses. As a result, the Davis Drive West corridor employs both the Green Streetscape Typology as well as the Davis Urban Streetscape Typology dependent on the context of the segment.

4.4.2 OVERVIEW MATRIX

	Davis Drive West Corridor Overview								
	Streetscape Element	Width (minimum)	Typical Boulevard Material	Intersection Condition	Additional Notes	Further Information			
Typology	Pedestrian Zone- Intersection	2.0 metres	Permeable Unit Pavers on Permeable Concrete Base	 Unit Pavers to extend 50 linear metres from key intersections to establish a strong sense of place; AODA compliant tactile plates, curbs and crosswalks to be utilized. 	Boulevard paving to visually tie into the private realm paving for a visually cohesive look.	Sections 3.4, 4.4.6-7 and 5			
Streetscape 1	Pedestrian Zone- Midblock	2.0 metres	Permeable Concrete	• N/A		Sections 3.4, 4.4.3-5 and 5			
Davis Urban Stree	Cycle Track	1.5 metres	Poly Bound Porous Pavement	 Cycle Track transitions to roadway at intersections; Crossride is marked with green paving, elephant feet and pavements markings (as per OTM Book 18). 	 Cycle track must have a minimum 0.25 metre buffer from fixed objects (i.e. planters, benches, etc.). 1 metre by 2 metre pavement markings spaced 1.5 metres apart (as per OTM Book 18). 	Sections 3.7, 4.4.3-7 and 5			
Da	Furnishing/ Planting Zone	2.35 metres	Permeable Unit Pavers on Permeable Concrete Base	Street trees and other visual obstacles set back from the intersection in order to maintain a clear sight triangle.	Street trees in grates used throughout Davis Urban corridor.	Sections 3.5-6, 4.4.3-5 and 5			
cape	Multi-Use Path- Intersection	3.0 metres	Permeable Unit Pavers on Permeable Concrete Base	 Unit Pavers to extend 18 linear metres from key intersections to establish a strong sense of place; AODA compliant tactile plates, curbs and crosswalks to be utilized. 	Cross Ride and Crosswalk separates cyclists and pedestrians at intersections.	Sections 3.8, 4.4.11-12 and 5			
reetsc ology	Multi-Use Path- Midblock	3.0 metres	Poly Bound Porous Pavement	• N/A		Sections 3.8, 4.4.8-10 and 5			
Green Streetso Typology	Landscape Zone	2.35 metres	Landscaping	 Street trees and other visual obstacles set back from the intersection in order to maintain a clear sight triangle; Ornamental grasses planted for the first 16 metres from signalized intersections. 	 Plant species must be hardy, salt and drought tolerant; Use native species; Landscape screening along back lotted residential adjacent lands. 	Sections 3.6, 4.4.8-10 and 5			
Universal	Continuity Strip	0.6 metres	Permeable Unit Pavers on Granular Base	 Materiality of the continuity strip to be complimentary to the boulevard pavement treatment. 		Sections 4.4.8- 10 and 5			
Univ	Median	Varies	Permeable Unit Pavers and Concrete Planter with Planting	Median can serve as the basis for two-stage crossing at major intersections. FINAL	Plant species selection is dependent on median width and available soil volumes	Sections 4.4.13 and 5			





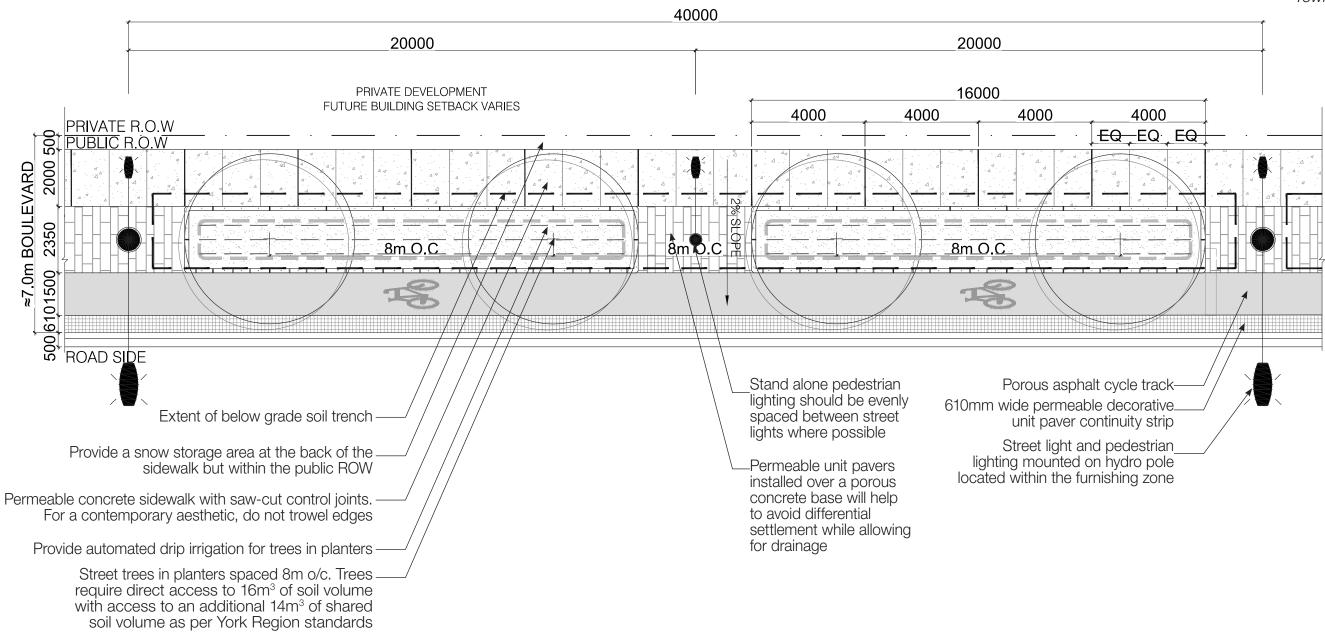
DAVIS URBAN STREETSCAPE TYPOLOGY GEOMETRY: TYPICAL MIDBLOCK CONDITIONS 4.4.3

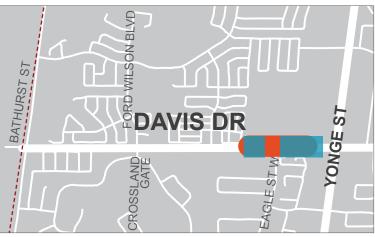


ROW Boundary Renderings display typical midblock condition

Davis Drive West- Davis Urban Streetscape Typology

MIDBLOCK TECHNICAL PLAN 4.4.4

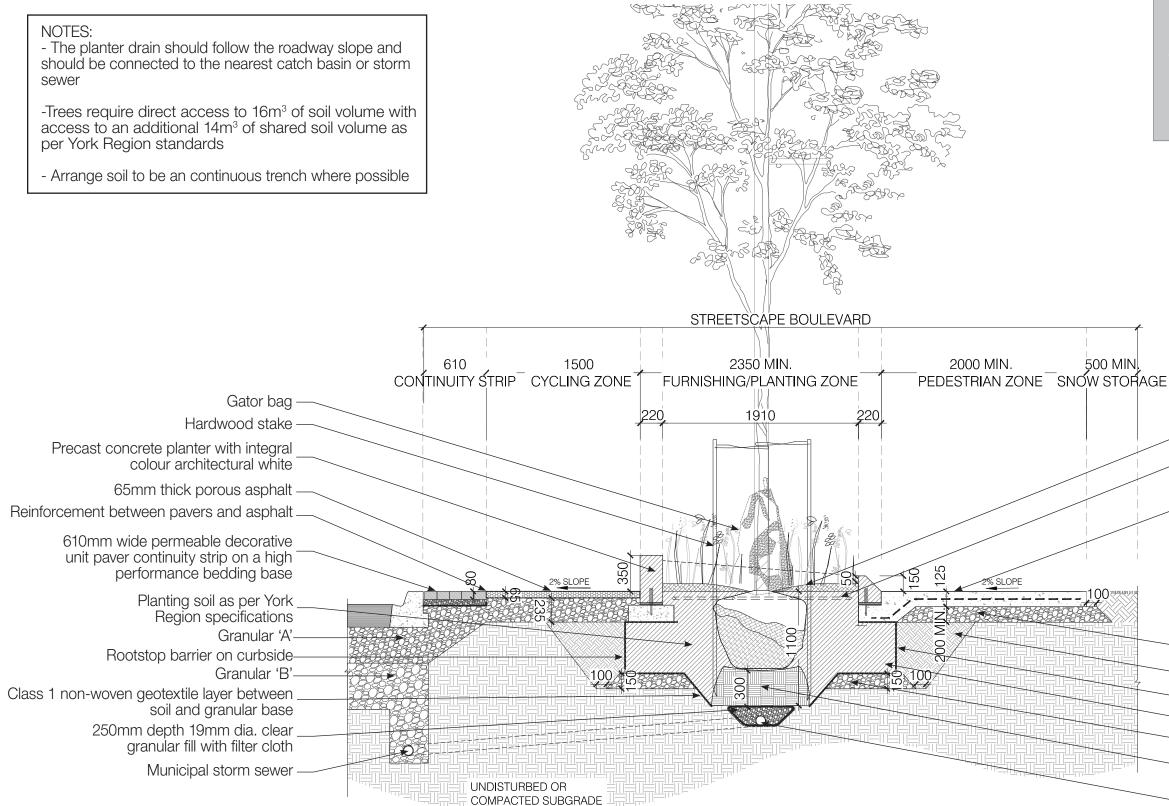




Town Boundary



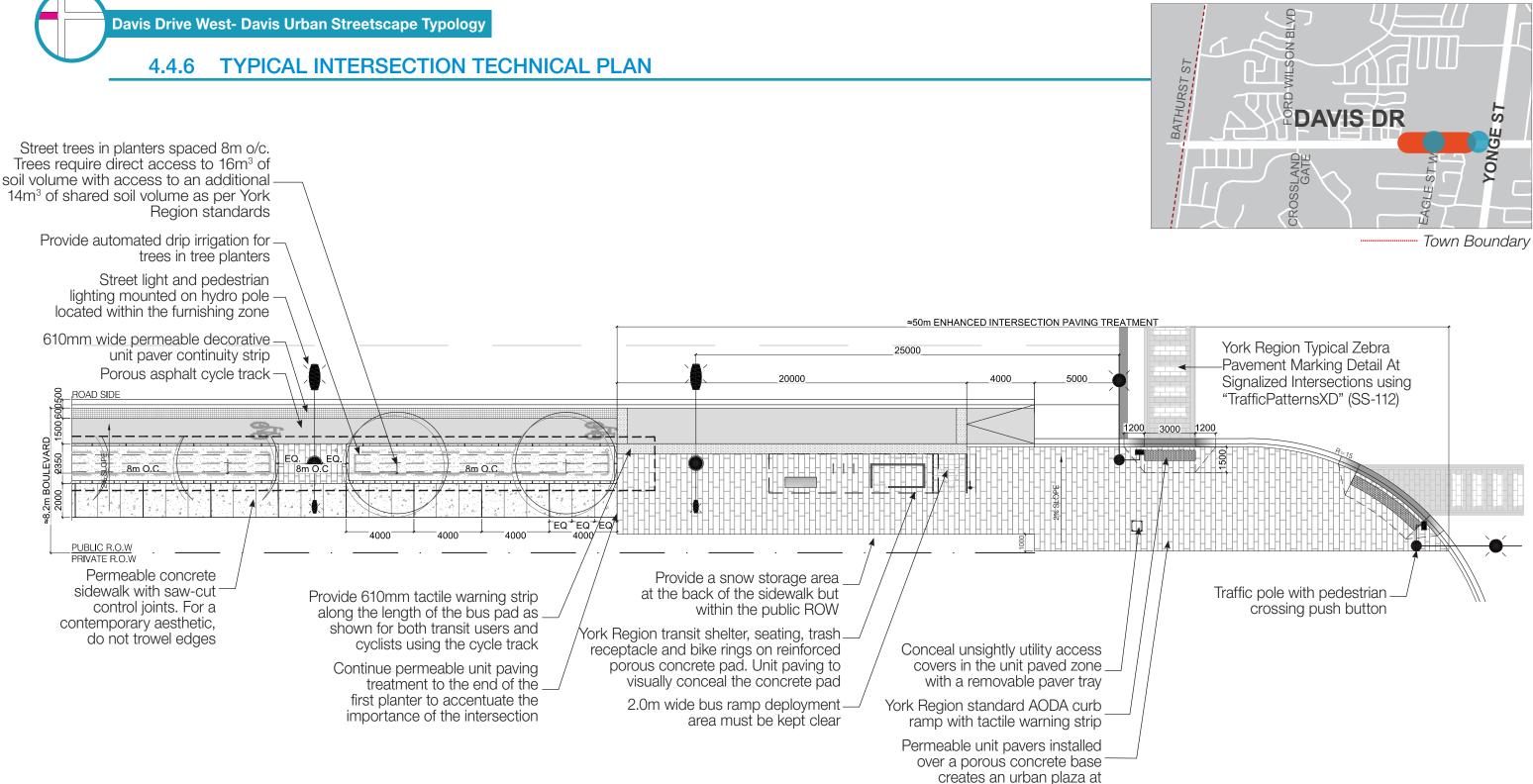
4.4.5 MIDBLOCK TECHNICAL DETAIL (CROSS SECTION)





Town Boundary

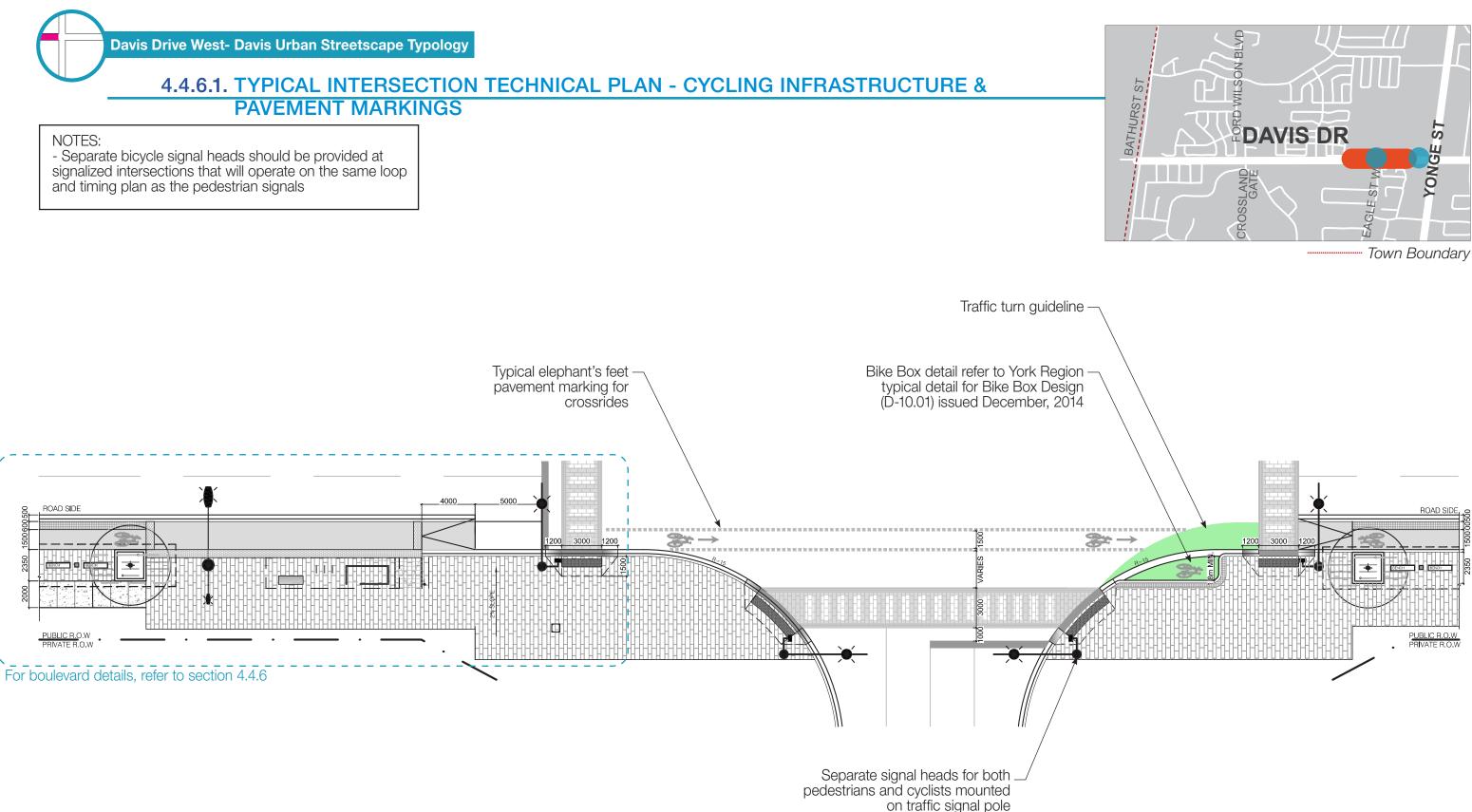
- —100mm shredded bark mulch
- Automated drip irrigation
- Permeable concrete sidewalk with welded wire mesh reinforcement
- —Native backfill
- —Geogrid on boulevard side
- ---Soil installation based on providing adequate soil volumes
- ---Compacted granular base
- ____300mm tamped setting bed at bottom of planting bed
- 150mm dia. perforated PVC pipe with filter sock connected to municipal storm sewer at maximum run of 4 trees



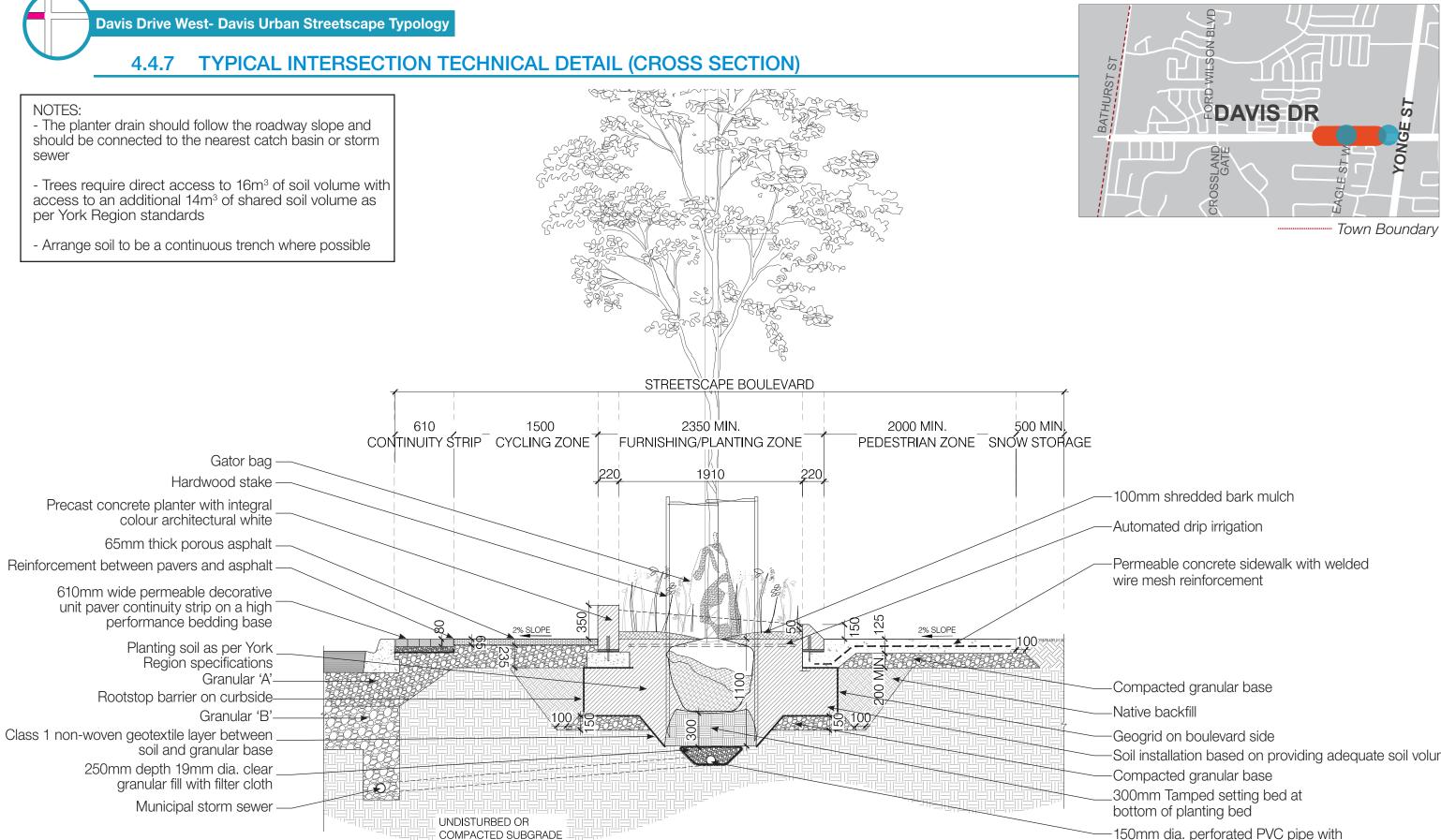
FINAL

intersection while accommodating

LID principles



FINAL

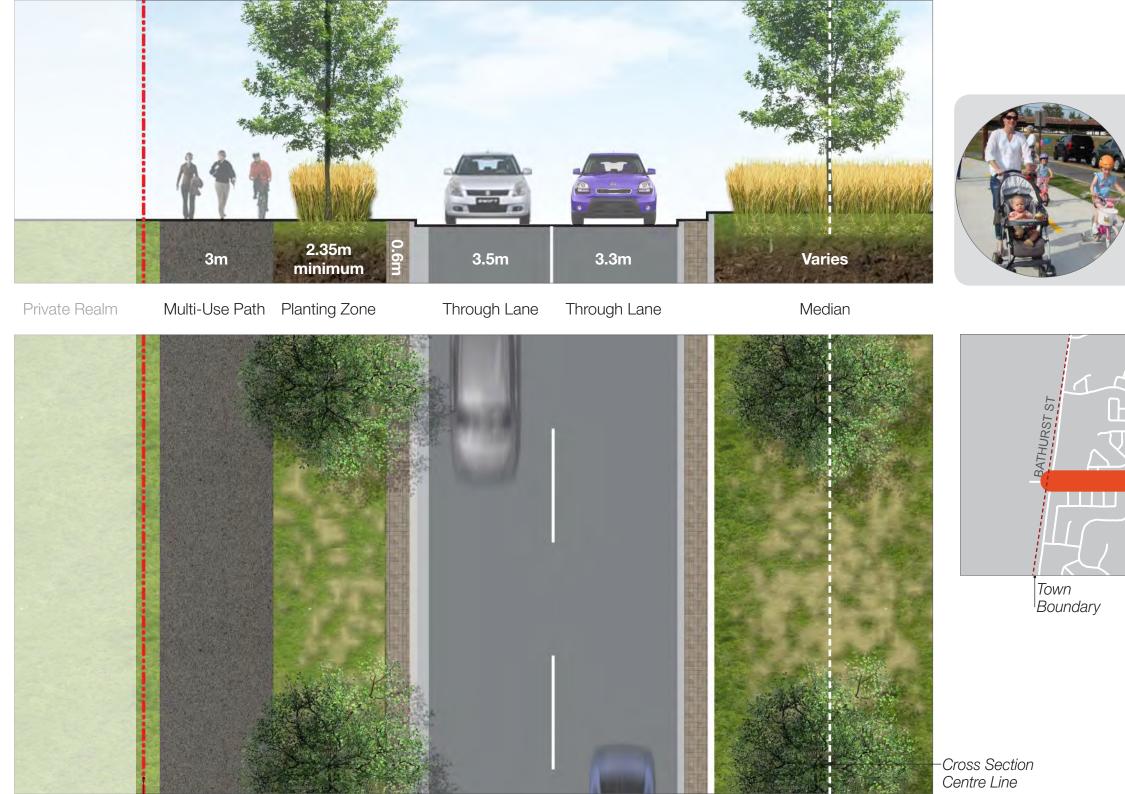


- -Soil installation based on providing adequate soil volumes

- -150mm dia. perforated PVC pipe with filter sock connected to municipal storm sewer at maximum run of 4 trees



4.4.8 GREEN STREETSCAPE TYPOLOGY GEOMETRY: TYPICAL MIDBLOCK CONDITIONS



ROW Boundary

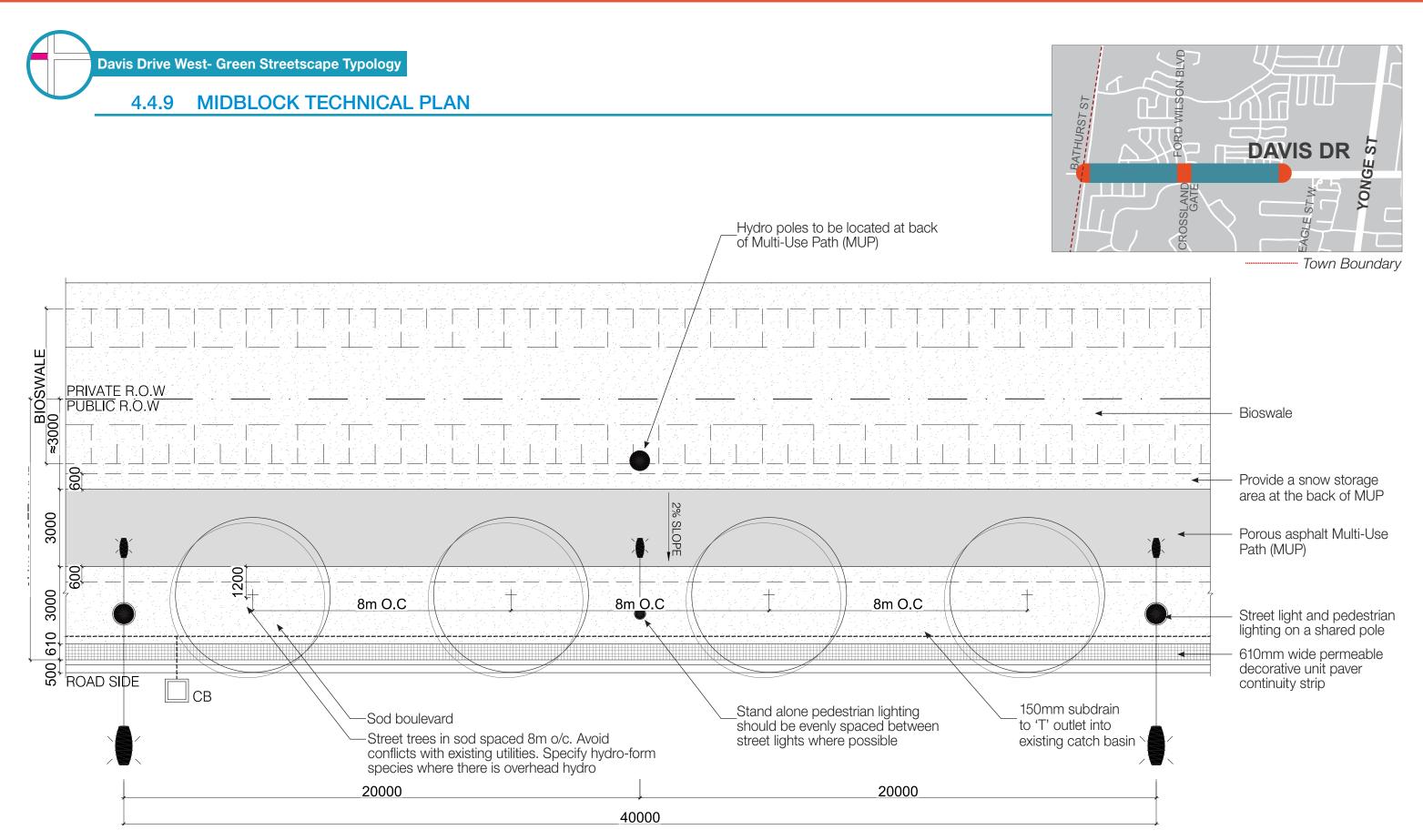
Renderings display typical midblock condition



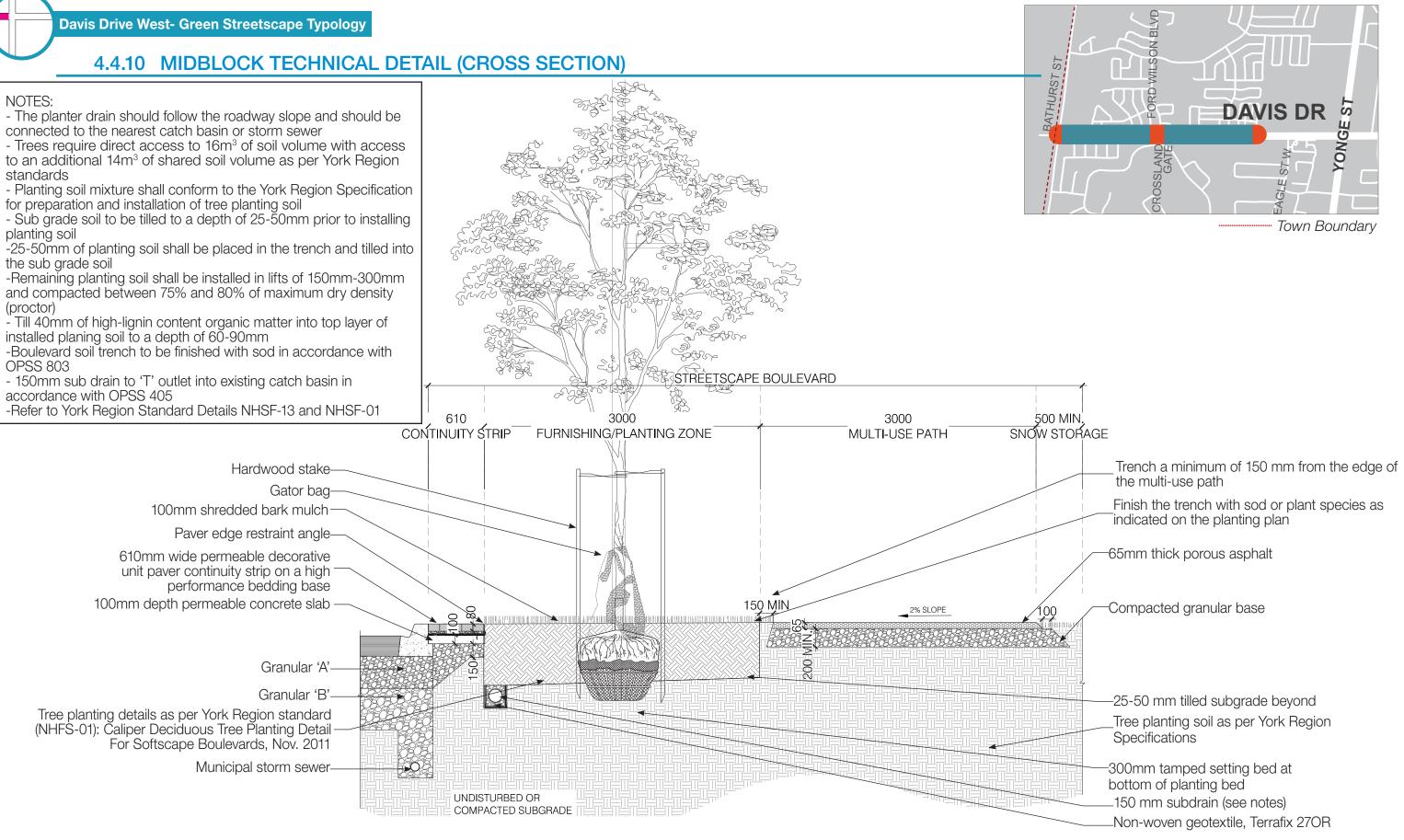
Precedent Images

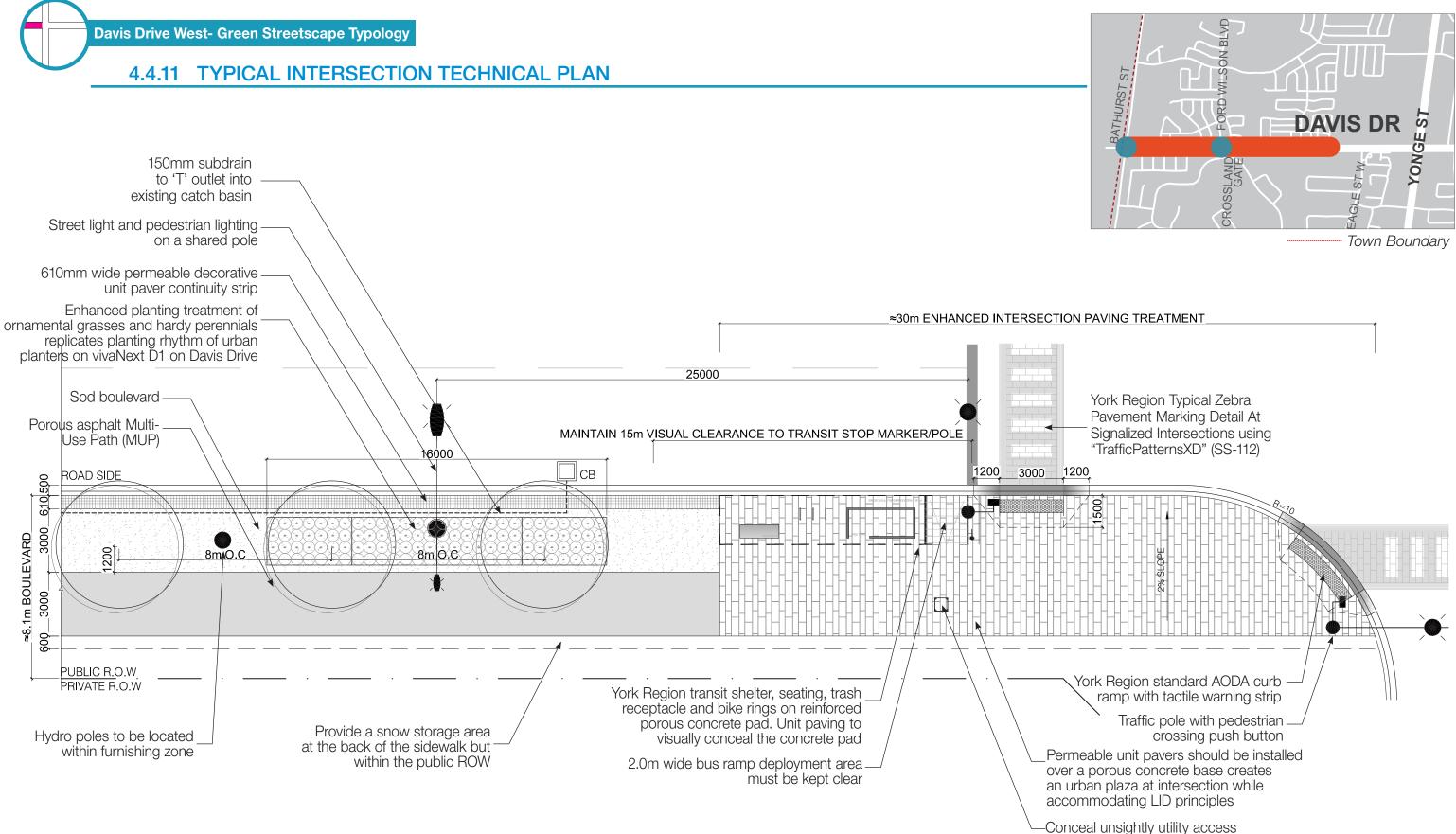


Кеу Мар



NOTES:





FINAL

4.0 STREETSCAPE CORRIDORS

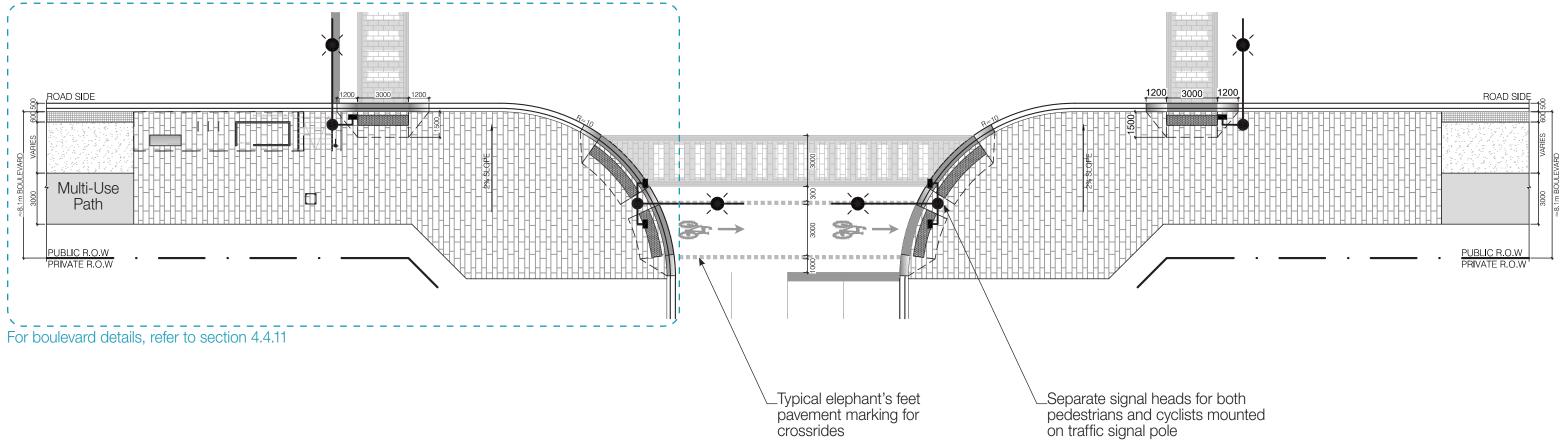
covers in the unit paved zone with a removable paver tray

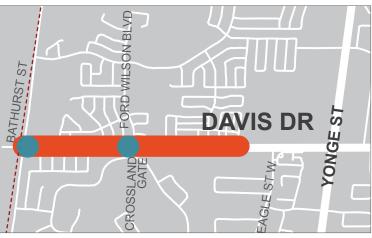
Davis Drive West- Green Streetscape Typology

4.4.11.1. TYPICAL INTERSECTION TECHNICAL PLAN - CYCLING INFRASTRUCTURE & **PAVEMENT MARKINGS**

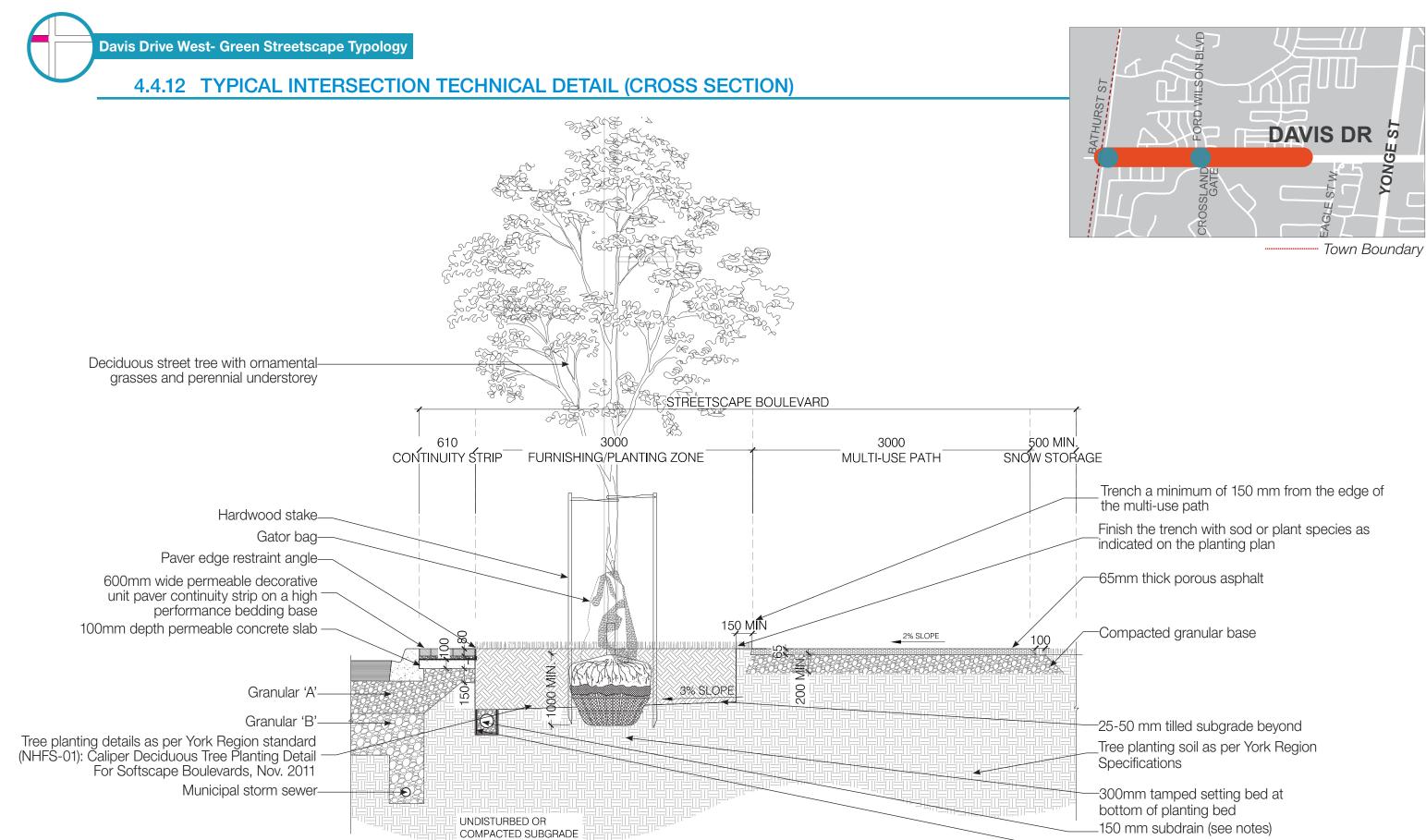
NOTES:

- Separate bicycle signal heads should be provided at signalized intersections that will operate on the same loop and timing plan as the pedestrian signals





Town Boundary



- -Non-woven geotextile, Terrafix 27OR

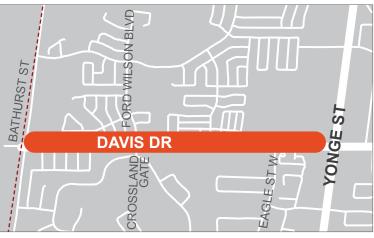


4.4.13 MEDIAN CONDITIONS

BACKGROUND

The Streetscape Master Plan presents a centre median within the Davis Drive West corridor where there is room in the ROW. Within some segments, the median is wide enough to accommodate deciduous canopy trees with an understory planting of hardy ornamental grasses and shrubs. This will contribute to the greening and beautification of the corridor. Other segments of the corridor contain a narrower median with unit pavers.

Centre Median Sizing Matrix						
Visualization	Width (From Edge of Pavement)	Median Type	Additional Notes	Further Information		
	1.0 metre minimum	Concrete	CIP concrete median with a light broom finish.	Sections 3.5 and 3.8		
	1.0 metre - 1.9 metres	Unit Pavers on a Granular Base	 Contemporary pavers that match the streetscape aesthetic should be used ; Median provides space for place-making banners. 	Sections 3.5 and 3.8		
	2.0 metres - 4.4 metres	Concrete Planter with Shrubs and Small Ornamental Trees	 Planted with hardy shrubs species (see plant palette); Inside planter width should be a minimum of 1500 mm; 350 mm high precast concrete planter; Planters offset 0.5 metres from median edges for safety and to mitigate the impacts of salt spray on plant material; Median provides space for place-making banners. 	Sections 3.5 and 3.8		
	4.5 metres +	Concrete Planter with Trees	 Planted with deciduous canopy trees spaced 6 metres on centre; Inside planter width should be a minimum of 2500 mm; Planted with deciduous street trees 8 metres on centre in midblock conditions; Trees require direct access to 16m³ of soil volume with access to an additional 14m³ of shared soil volume as per York Region standards; 350 mm high precast concrete planter; Planters offset 0.5 metres from median edges for safety and to mitigate the impacts of salt spray on plant material; Median provides space for place-making banners and public art where space permits. 	Sections 3.5 and 3.8		

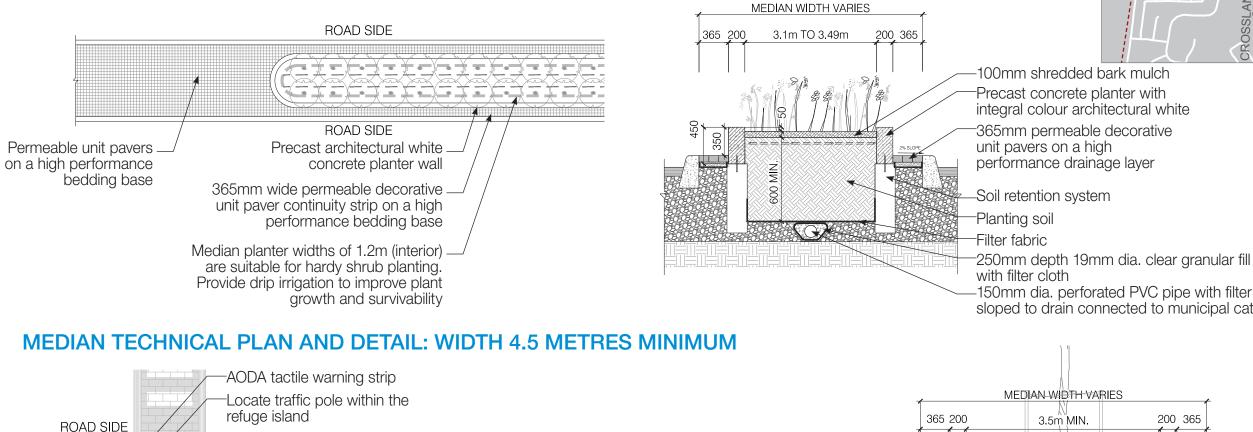


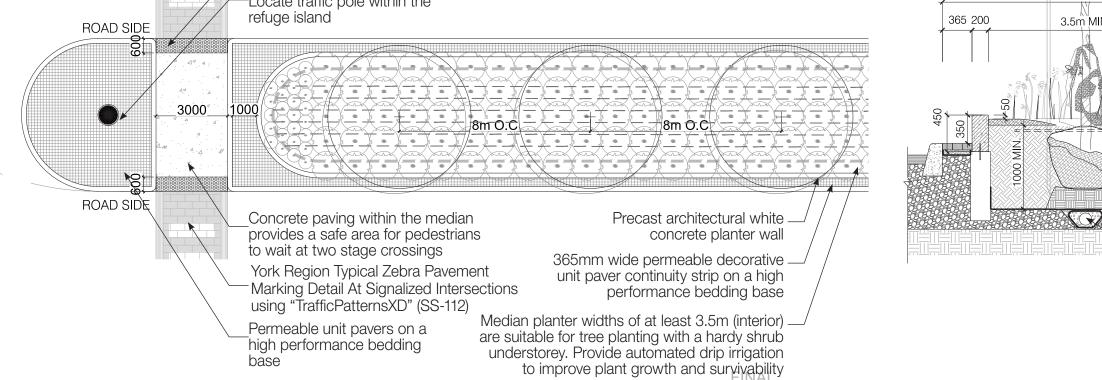
Town Boundary



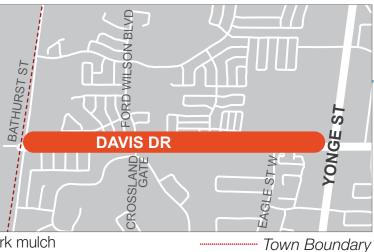


MEDIAN TECHNICAL PLAN AND DETAIL: WIDTH 2.0 METRES- 4.4 METRES

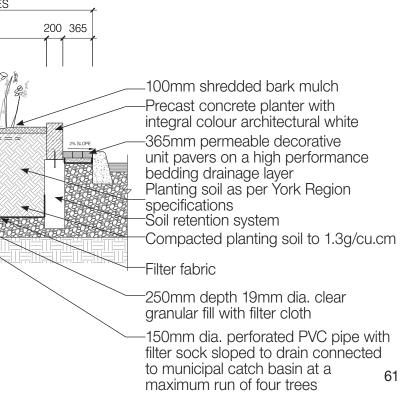




4.0 STREETSCAPE CORRIDORS

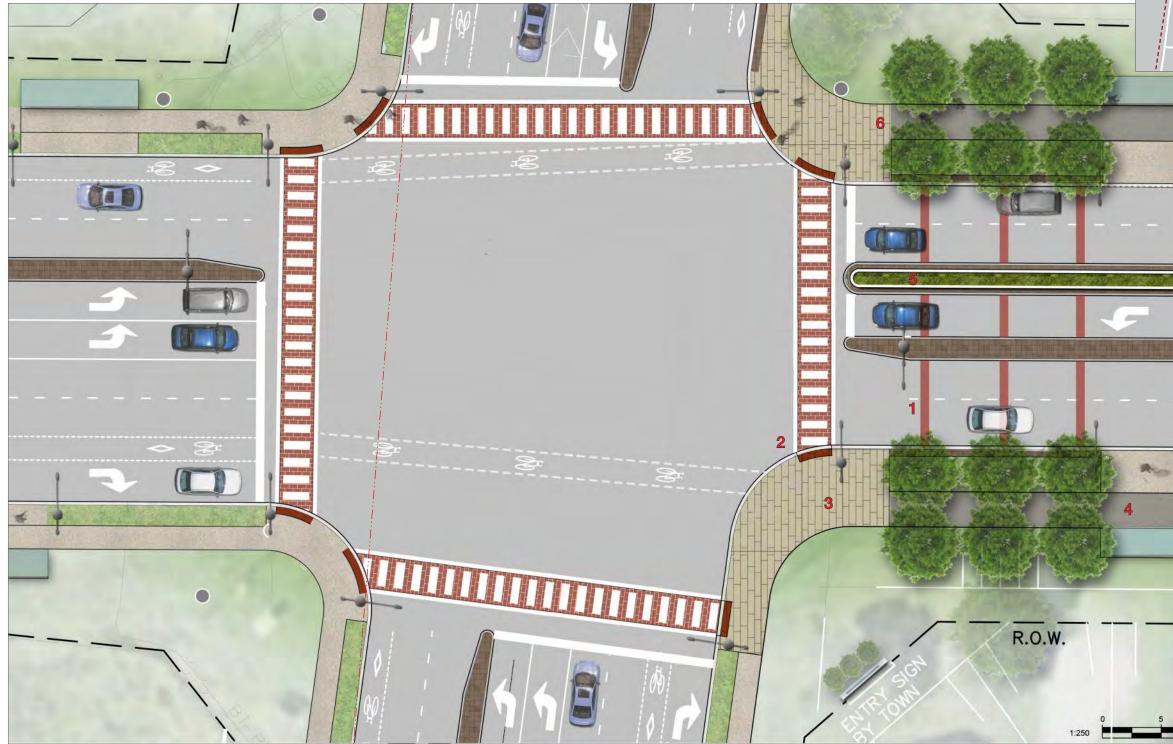


-150mm dia. perforated PVC pipe with filter sock sloped to drain connected to municipal catch basin

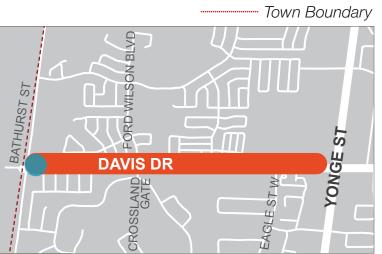




4.4.14 GATEWAY CONDITION



Township of King |Town of Newmarket Boundary



This plan depicts the Town of Newmarket gateway at Davis Drive and Bathurst Street. The streetscape design provides visual cues that commuters, pedestrians and cyclists are entering the Town of Newmarket.

KEY FEATURES LEGEND

- 1. Unit paver gateway banding 8 metres on centre ties into tree spacing
- Decorative crosswalk: refer to Regional Municipality of York – Typical Zebra Pavement Markings Detail at Signalized Intersections using 'TrafficPatternsXD' SS-112
- 3. Unit paving creates an intersection plaza: refer to sections 4.4.11-12
- 4. MUP flanked by deciduous trees: refer to section 4.4.8-10
- 5. Planted median: refer to section 4.4.13
- 6. Refer to section 5 for more information on materiality

*Crossrides to be added to the Bathurst Street at Davis Drive Capital Project at a future date.

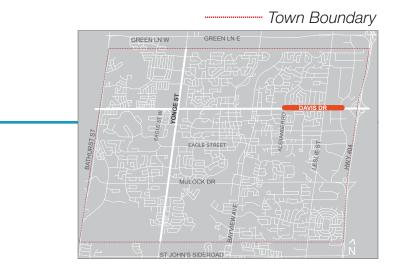
Davis Drive East Davis Drive East Corridor 4.5

INTRODUCTION 4.5.1

The Davis Drive East corridor is marked by differing land uses, with low to mid density residential as well as medical and commercial adjacent land uses. As a result, the Davis Drive East corridor employs both the Green Streetscape Typology as well as the Davis Urban Streetscape Typology dependent of the context of the segment.

4.5.2 OVERVIEW MATRIX

				Davis Drive West Corridor Overview		
	Streetscape Element	Width (minimum)	Typical Boulevard Material	Intersection Condition	Additional Notes	Further Information
Typology	Pedestrian Zone- Intersection	2.0 metres	Permeable Unit Pavers on Permeable Concrete Base	 Unit Pavers to extend 50 linear metres from key intersections to establish a strong sense of place; AODA compliant tactile plates, curbs and crosswalks to be utilized. 	Boulevard paving to visually tie into the private realm paving for a visually cohesive look.	Sections 3.4, 4.5.6-7 and 5
Streetscape T	Pedestrian Zone- Midblock	2.0 metres	Permeable Concrete	• N/A		Sections 3.4, 4.5.3-5 and 5
Davis Urban Stree	Cycle Track	1.5 metres	Poly Bound Porous Pavement	 Cycle Track transitions to roadway at intersections; Crossride is marked with green paving, elephant feet and pavements markings (as per OTM Book 18). 	 Cycle track must have a minimum 0.25 metre buffer from fixed objects (i.e. planters, benches, etc.). 1 metre by 2 metre pavement markings spaced 1.5 metres apart (as per OTM Book 18). 	Sections 3.7, 4.5.3-7 and 5
Da	Furnishing/ Planting Zone	2.35 metres	Permeable Unit Pavers on Permeable Concrete Base	• Street trees and other visual obstacles set back from the intersection in order to maintain a clear sight triangle.	Street trees in grates used throughout Davis Urban corridor.	Sections 3.5-6, 4.5.3-5 and 5
ape	Multi-Use Path- Intersection	3.0 metres	Permeable Unit Pavers on Permeable Concrete Base	 Unit Pavers to extend 18 linear metres from key intersections to establish a strong sense of place; AODA compliant tactile plates, curbs and crosswalks to be utilized. 	Cross Ride and Crosswalk separates cyclists and pedestrians at intersections.	Sections 3.8, 4.5.11-12 and 5
reetsc ology	Multi-Use Path- Midblock	3.0 metres	Poly Bound Porous Pavement	• N/A		Sections 3.8, 4.5.8-10 and 5
Green Streetscape Typology	Landscape Zone	2.35 metres	Landscaping	 Street trees and other visual obstacles set back from the intersection in order to maintain a clear sight triangle; Ornamental grasses planted for the first 16 metres from signalized intersections. 	 Plant species must be hardy, salt and drought tolerant; Use native species; Landscape screening along back lotted residential adjacent lands. 	Sections 3.6, 4.5.8-10 and 5
Universal	Continuity Strip	0.6 metres	Permeable Unit Pavers on Granular Base	• Materiality of the continuity strip to be complimentary to the boulevard pavement treatment.		Sections 4.5.8- 10 and 5
Univ	Median	Varies	Permeable Unit Pavers and Concrete Planter with Planting	Median can serve as the basis for two-stage crossing at major intersections. FINAL	Plant species selection is dependent on median width and available soil volumes	Sections 4.5.13 and 5





4.5.3 DAVIS URBAN STREETSCAPE TYPOLOGY GEOMETRY: TYPICAL MIDBLOCK CONDITIONS

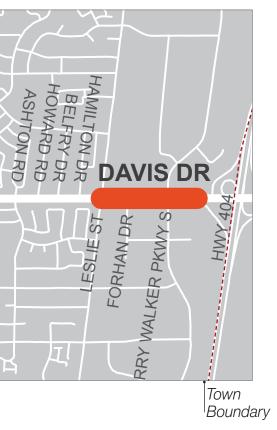


ROW Boundary

Renderings display typical midblock condition

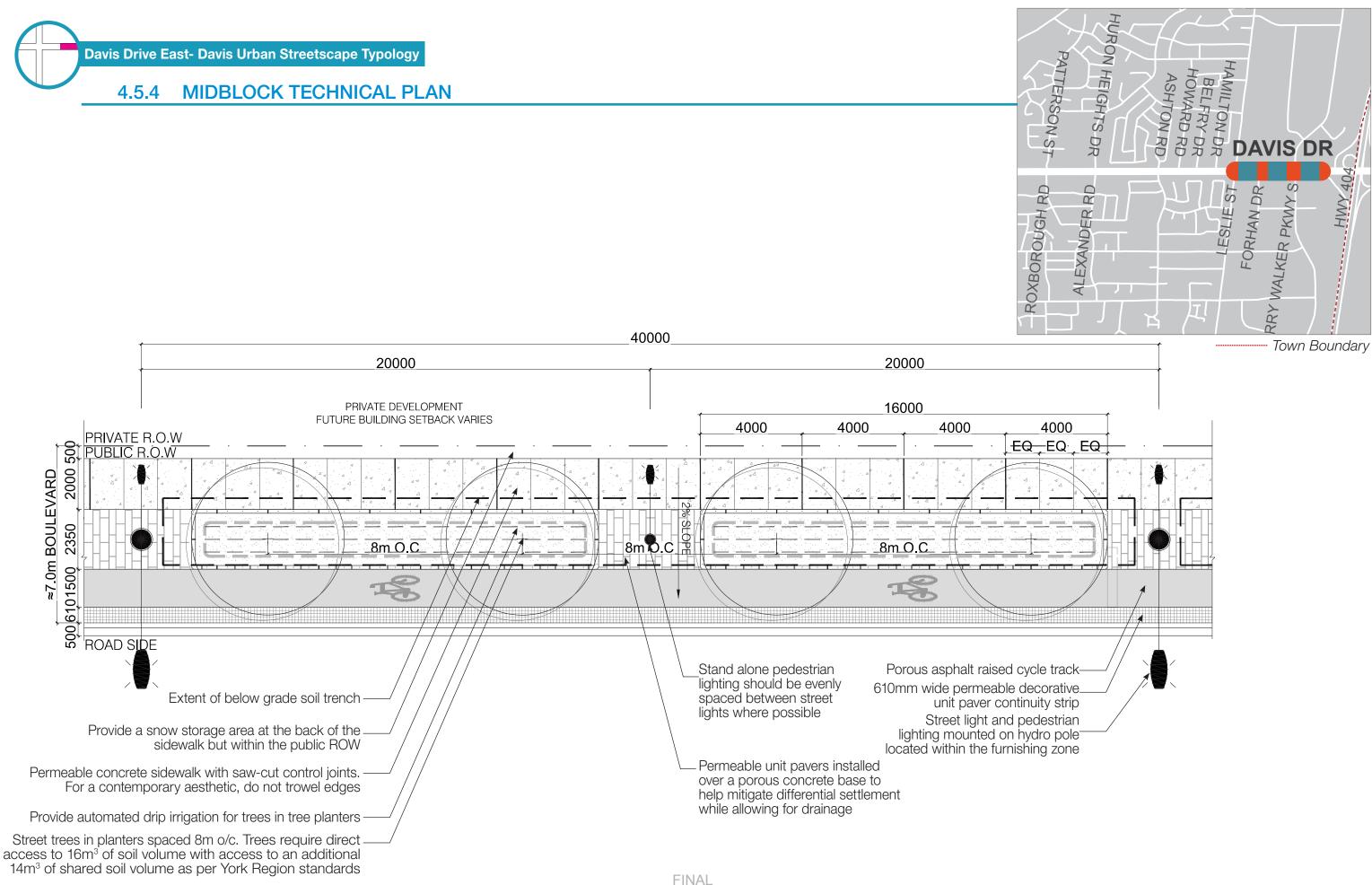


Precedent Images



Davis Drive East- Davis Urban Streetscape Typology

MIDBLOCK TECHNICAL PLAN 4.5.4



- The planter drain should follow the roadway slope and

should be connected to the nearest catch basin or storm

- Trees require direct access to 16m³ of soil volume with access to an additional 14m³ of shared soil volume as

- Arrange soil to be a continuous trench where possible

4.5.5

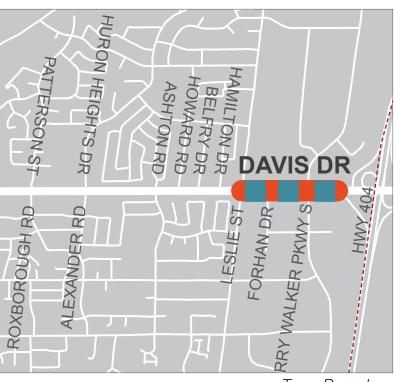
per York Region standards

NOTES:

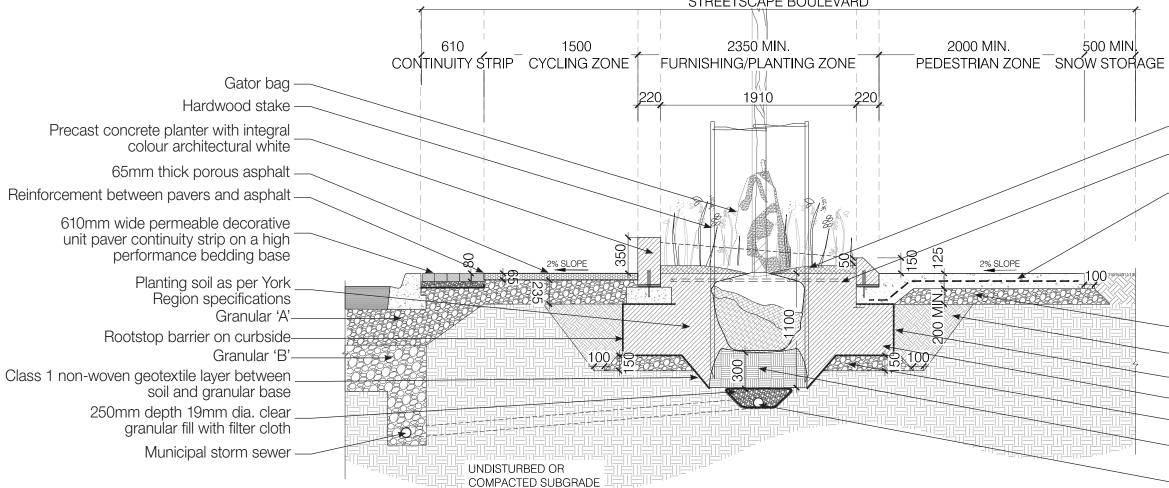
sewer

Davis Drive East- Davis Urban Streetscape Typology

MIDBLOCK TECHNICAL DETAIL (CROSS SECTION)



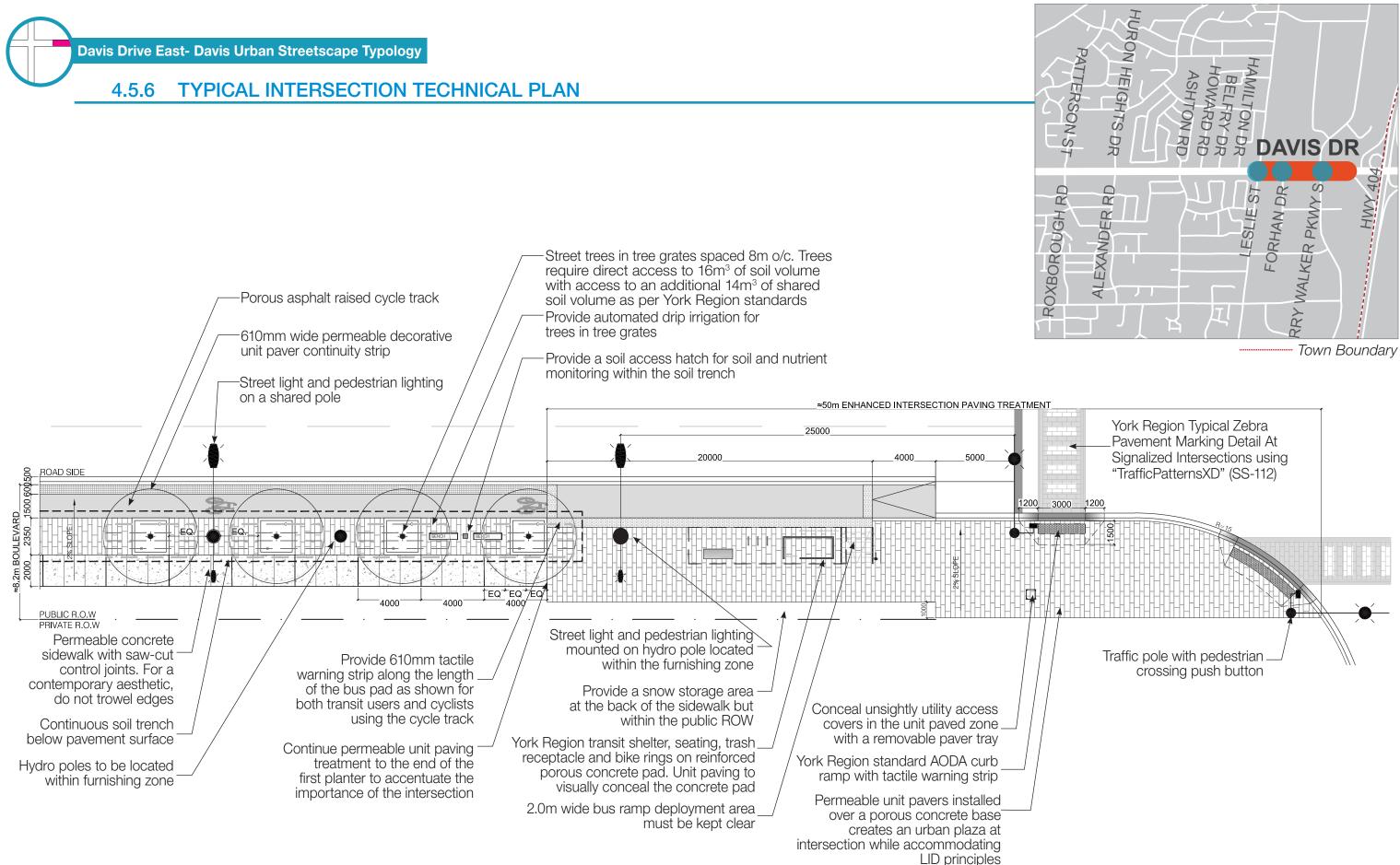




YONGE STREET & DAVIS DRIVE STREETSCAPE MASTER PLAN • PHASE 4 REPORT: DETAILED DESIGN GUIDELINES AND STANDARDS

Town Boundary

- 100mm shredded bark mulch
- Automated drip irrigation
- Permeable concrete sidewalk with welded wire mesh reinforcement
- -Compacted granular base
- -Native backfill
- Geogrid on boulevard side
- Soil installation based on providing adequate soil volumes
- -Compacted granular base
- 300mm tamped setting bed at
- bottom of planting bed
- 150mm dia. perforated PVC pipe with filter sock connected to municipal storm sewer at max. run of 4 trees



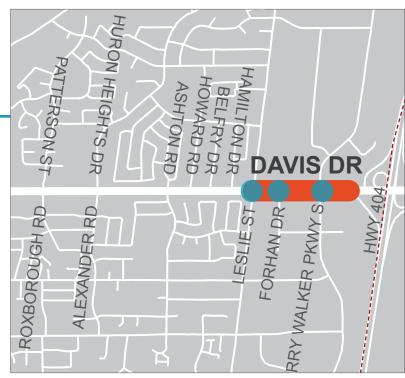
- Separate bicycle signal heads should be provided at

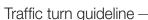
and timing plan as the pedestrian signals

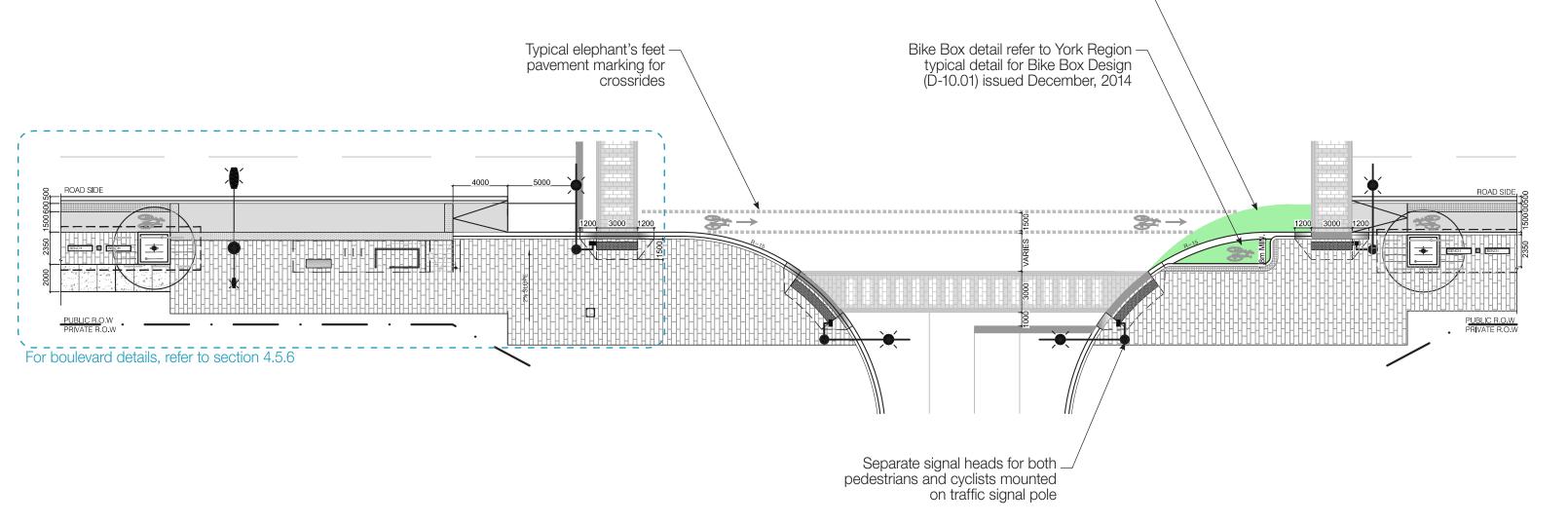
signalized intersections that will operate on the same loop

Davis Drive East- Davis Urban Streetscape Typology

PAVEMENT MARKINGS







4.5.6.1. TYPICAL INTERSECTION TECHNICAL PLAN - CYCLING INFRASTRUCTURE &

NOTES:

YONGE STREET & DAVIS DRIVE STREETSCAPE MASTER PLAN • PHASE 4 REPORT: DETAILED DESIGN GUIDELINES AND STANDARDS

Town Boundary

Davis Drive East- Davis Urban Streetscape Typology

4.5.7

per York Region standards

- The planter drain should follow the roadway slope and

should be connected to the nearest catch basin or storm

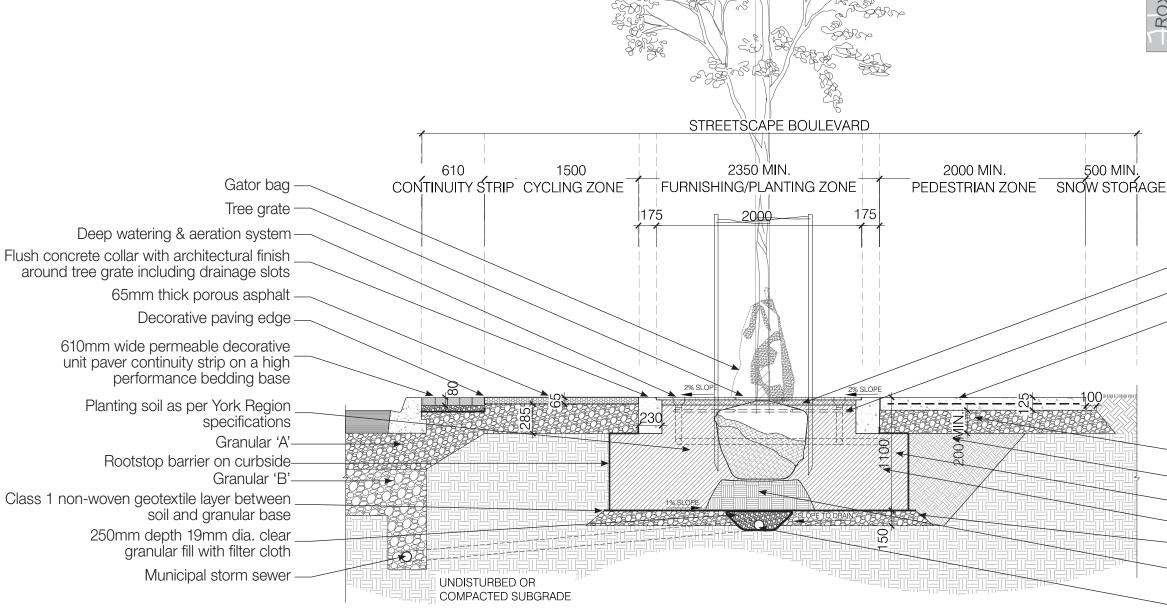
- Trees require direct access to 16m³ of soil volume with

access to an additional 14m³ of shared soil volume as

- Arrange soil to be a continuous trench where possible

NOTES:

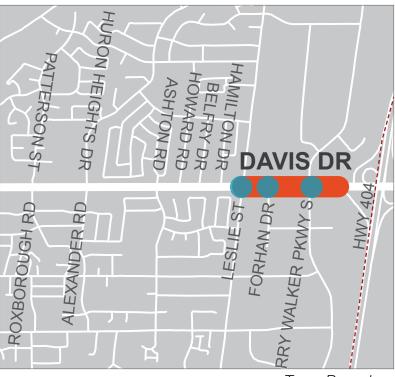
sewer



TYPICAL INTERSECTION TECHNICAL DETAIL (CROSS SECTION)

FINAL

4.0 STREETSCAPE CORRIDORS



Town Boundary

Filter fabric or rubber mat to mitigate weed growth

-Automated drip irrigation

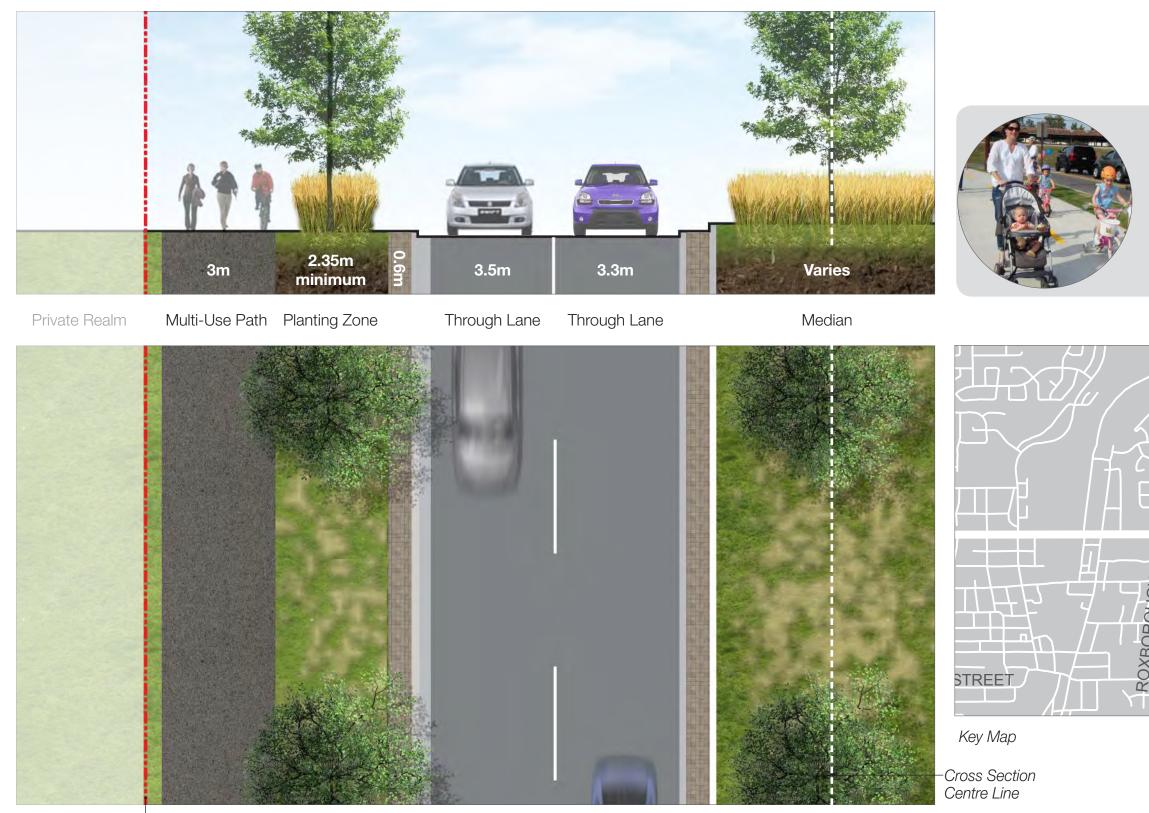
Permeable concrete sidewalk with welded wire mesh reinforcement

- -Compacted granular base
- -Native backfill
- Geogrid on boulevard side
- Soil installation based on providing adequate soil volumes
- -Compacted granular base
- 300mm tamped setting bed at
- bottom of planting bed

150mm dia. perforated PVC pipe with filter sock connected to municipal storm sewer at max. run of 4 trees



4.5.8 DAVIS URBAN STREETSCAPE TYPOLOGY GEOMETRY: TYPICAL MIDBLOCK CONDITIONS



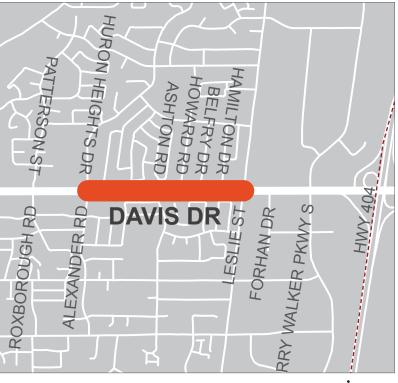
70

ROW Boundary

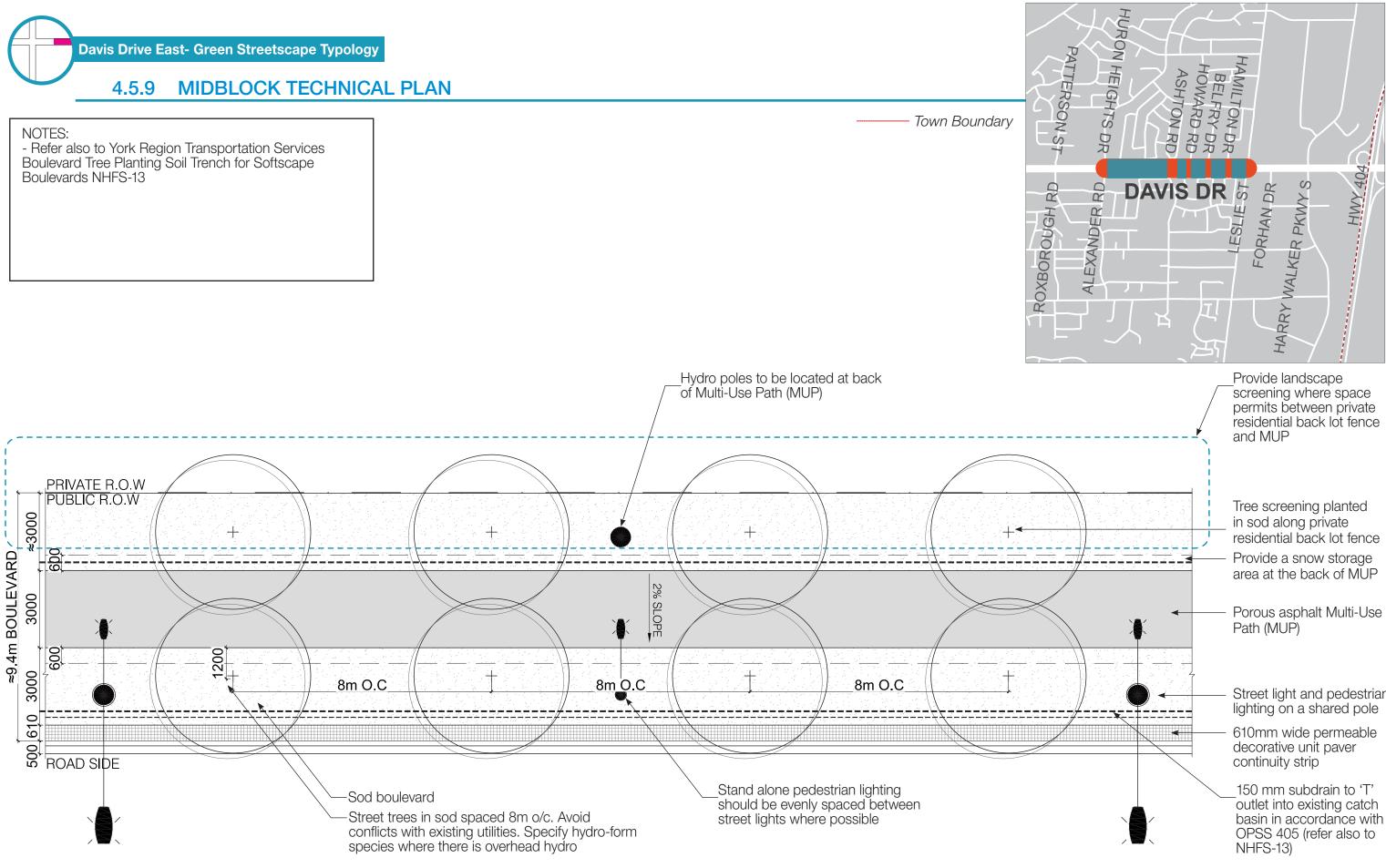
Renderings display typical midblock condition



Precedent Images



Town Boundary



FINAL

4.0 STREETSCAPE CORRIDORS

Street light and pedestrian

Town Boundary

500 MIN.

150 MIN

Ô

Davis Drive East- Green Streetscape Typology

4.5.10 MIDBLOCK TECHNICAL DETAIL (CROSS SECTION)

610

CONTINUITY STRIP

Ð

3000

FURNISHING/PLANTING ZONE

X

000

UNDISTURBED OR

COMPACTED SUBGRADE

300



- The planter drain should follow the roadway slope and should be connected to the nearest catch basin or storm sewer

- Trees require direct access to 16m³ of soil volume with access to an additional 14m³ of shared soil volume as per York Region standards

- Planting soil mixture shall conform to the York Region Specification for preparation and installation of tree planting soil

- Sub grade soil to be tilled to a depth of 25-50mm prior to installing planting soil

-25-50mm of planting soil shall be placed in the trench and tilled into the sub grade soil -Remaining planting soil shall be installed in lifts of 150mm-300mm and compacted between 75% and 80% of maximum dry density (proctor)

- Till 40mm of high-lignin content organic matter into top layer of installed planing soil to a depth of 60-90mm

-Boulevard soil trench to be finished with sod in accordance with OPSS 803

- 150mm sub drain to 'T' outlet into existing catch basin in accordance with OPSS 405.

Hardwood stake-Gator bag-Reinforcement between pavers and asphalt 610mm wide permeable decorative unit paver continuity strip on a high

performance bedding base

100mm depth permeable concrete slab



Granular 'B' Tree planting details as per York Region standard (NHFS-01): Caliper Deciduous Tree Planting Detail For Softscape Boulevards, Nov. 2011

Municipal storm sewer

FINAL

150 mm subdrain (see notes)

-Non-woven geotextile, Terrafix 27OR

200

150 MIN

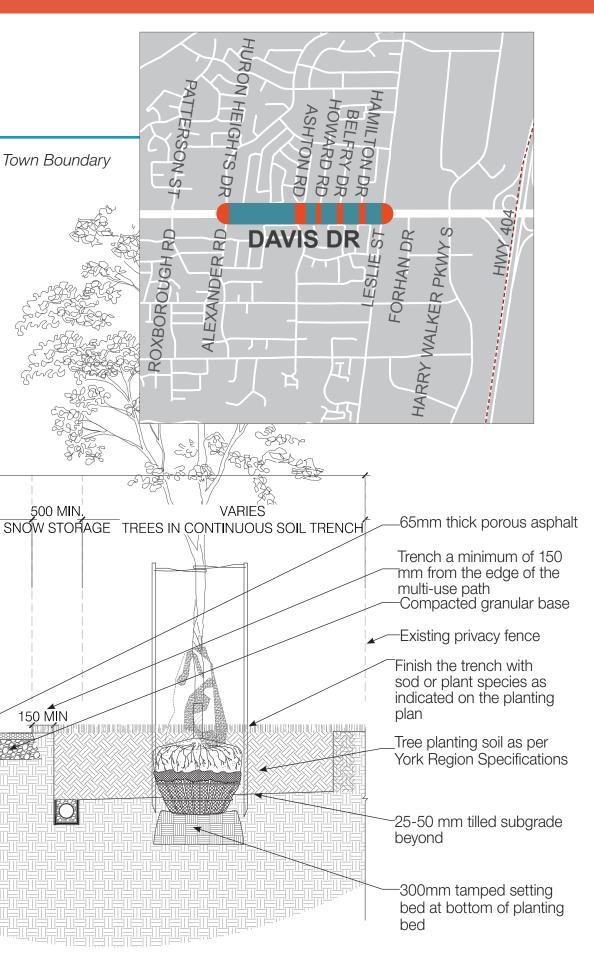
STREETSCAPE BOULEVARD

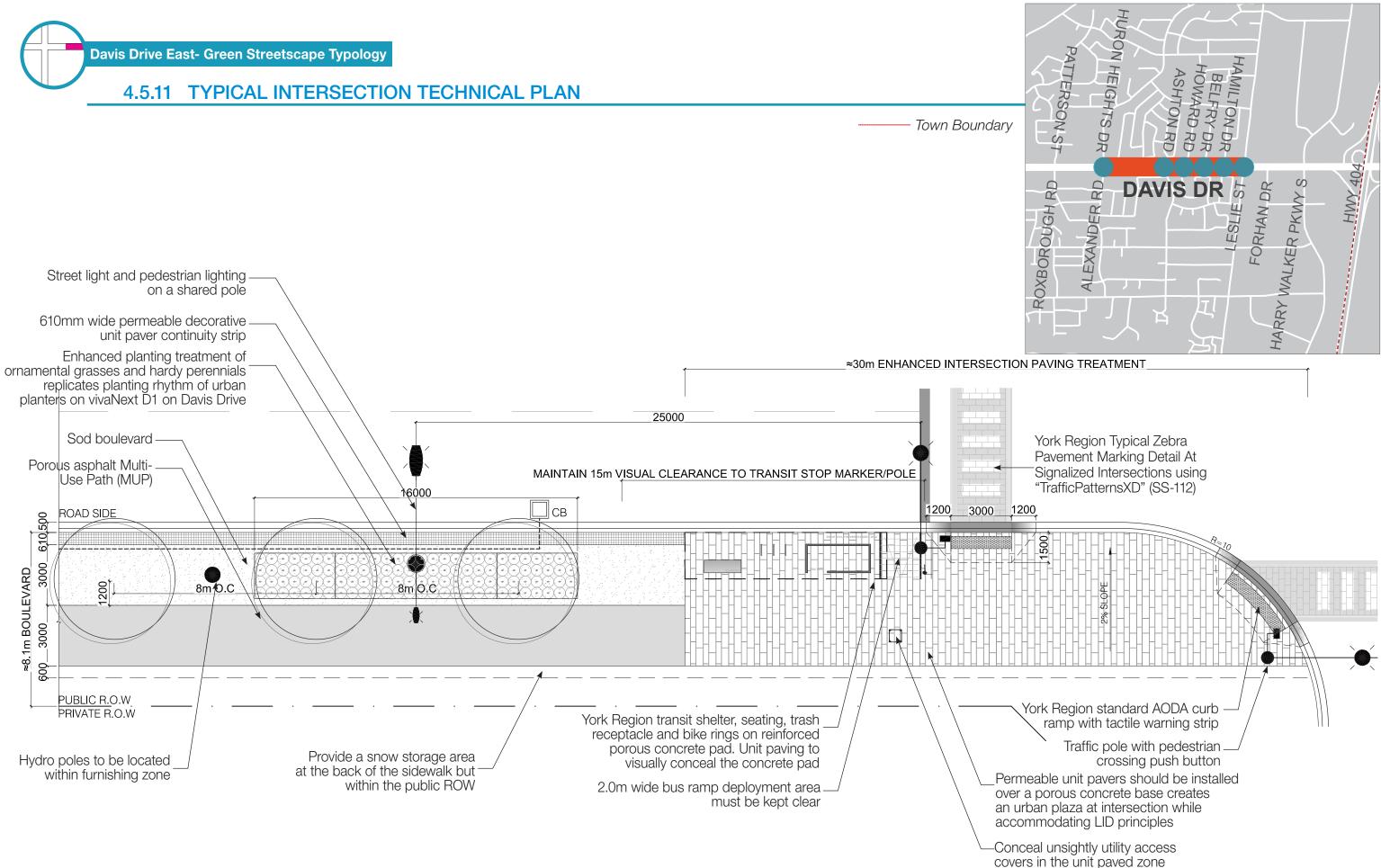
3000

MULTI-USE PATH

2% SLOPE

YONGE STREET & DAVIS DRIVE STREETSCAPE MASTER PLAN • PHASE 4 REPORT: DETAILED DESIGN GUIDELINES AND STANDARDS





with a removable paver tray

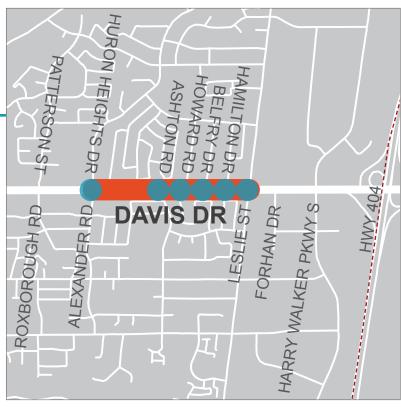
- Separate bicycle signal heads should be provided at

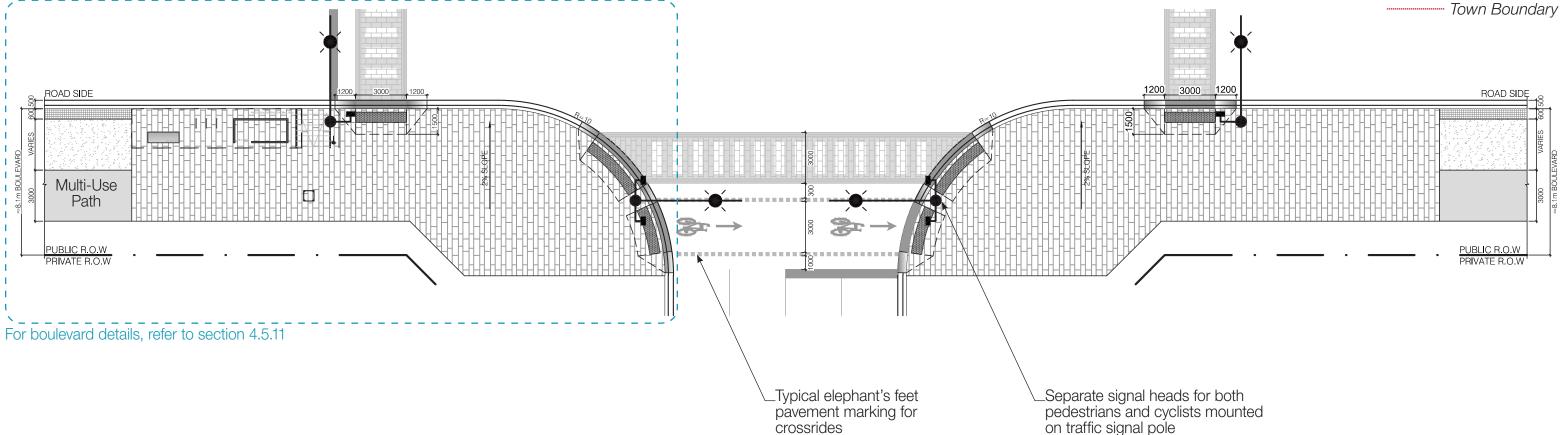
and timing plan as the pedestrian signals

signalized intersections that will operate on the same loop

Davis Drive East- Green Streetscape Typology

PAVEMENT MARKINGS

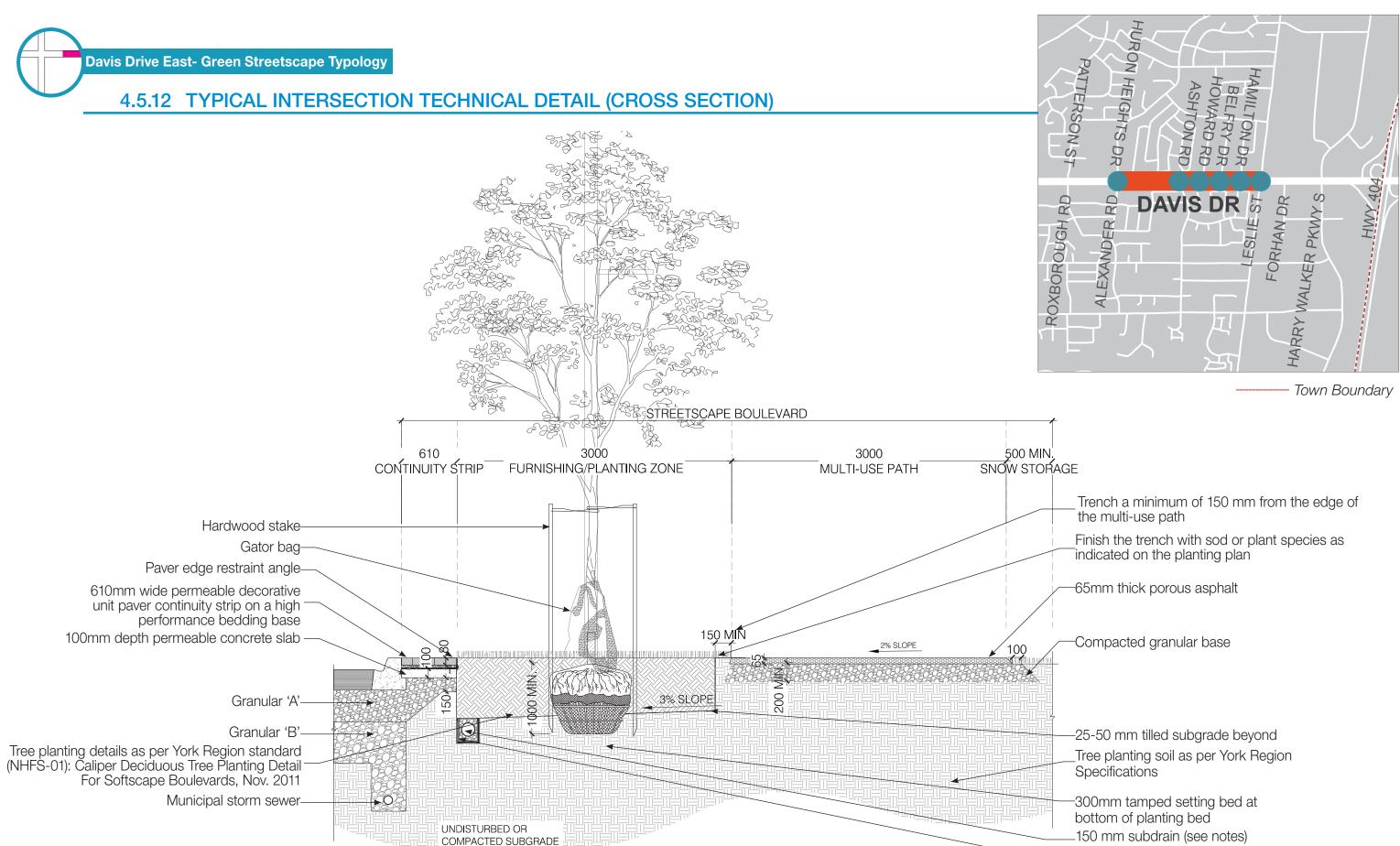




4.5.11.1. TYPICAL INTERSECTION TECHNICAL PLAN - CYCLING INFRASTRUCTURE &

NOTES:

YONGE STREET & DAVIS DRIVE STREETSCAPE MASTER PLAN • PHASE 4 REPORT: DETAILED DESIGN GUIDELINES AND STANDARDS



- 150 mm subdrain (see notes)
- -Non-woven geotextile, Terrafix 27OR



BACKGROUND

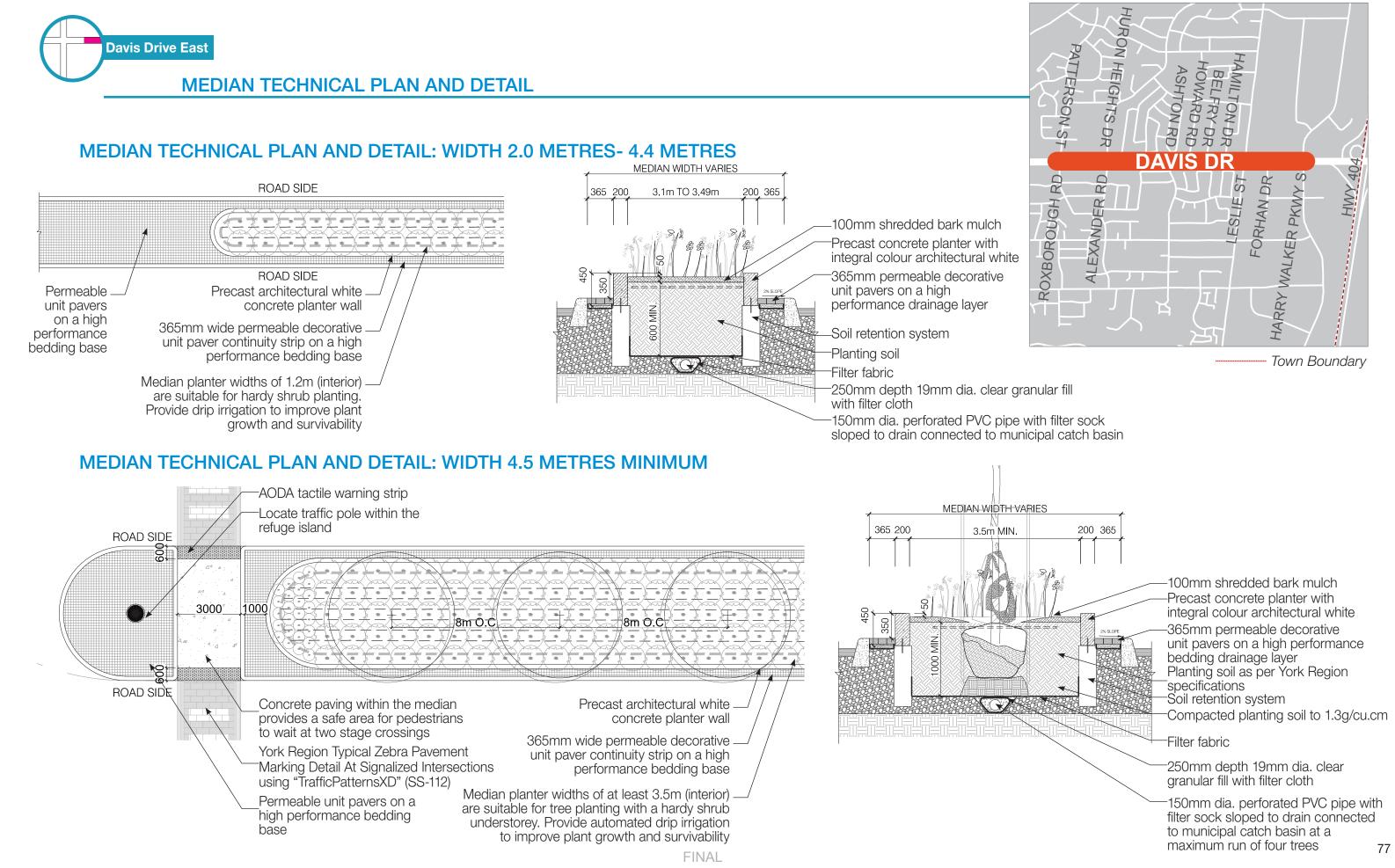
The Streetscape Master Plan presents a centre median within the Davis Drive East corridor where there is room in the ROW. Due to the size of the ROW, the median condition within this corridor contains unit pavers.

• Town Boundary

	Centre Median Sizing Matrix							
Visualization	Width (From Edge of Pavement)	Median Type	Additional Notes	Further Information				
	1.0 m minimum	Concrete	CIP concrete median with a light broom finish.	Sections 3.5 and 3.8				
	1.0 m - 1.9 m	Unit Pavers on a Granular Base	 Contemporary plank that match the streetscape aesthetic should be used; Median provides space for place-making banners. 	Sections 3.5 and 3.8				
	2.0 m - 4.4 m	Concrete Planter with Shrubs	 Planted with hardy shrubs species (see plant palette); Inside planter width should be a minimum of 1500 mm; 350 mm high precast concrete planter; Planters offset 500 mm from median edges for safety and to mitigate the impacts of salt spray on plant material; Median provides space for place-making banners. 	Sections 3.5 and 3.8				
	4.5 m +	Concrete Planter with Trees	 Planted with deciduous canopy trees spaced 8 metres on centre; Inside planter width should be a minimum of 2500 mm; Trees require direct access to 16m³ of soil volume with access to an additional 14m³ of shared soil volume as per York Region standards; 350 mm high precast concrete planter; Planters offset 500 mm from median edges for safety and to mitigate the impacts of salt spray on plant material; Median provides space for place-making banners and public art where space permits. 	Sections 3.5 and 3.8				

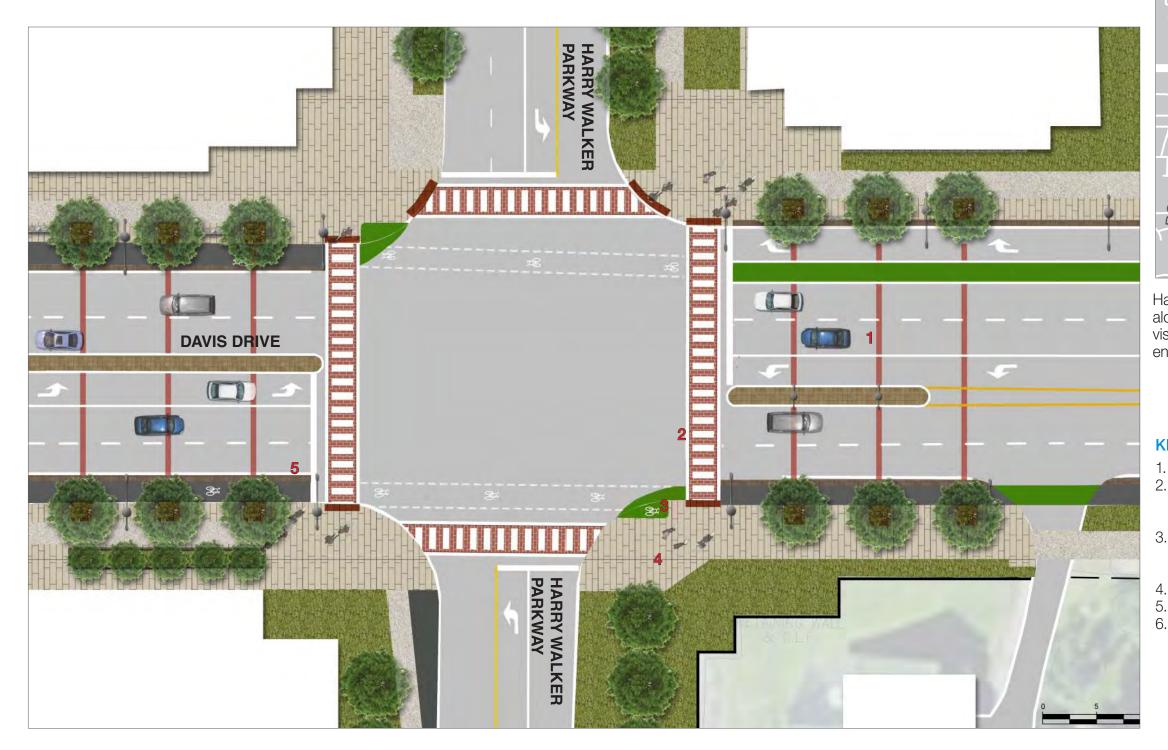
YONGE STREET & DAVIS DRIVE STREETSCAPE MASTER PLAN • PHASE 4 REPORT: DETAILED DESIGN GUIDELINES AND STANDARDS

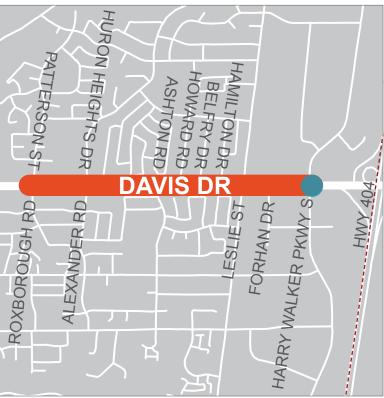






Town Boundary





Harry Walker Parkway marks the eastern gateway condition along Davis Drive east. The streetscape design provides visual cues that motorists, pedestrians and cyclists are entering the Town of Newmarket.

KEY FEATURES LEGEND

- Unit paver gateway banding 8 metres on centre
 Refer to Regional Municipality of York Typical Zebra Pavement Markings Detail at Signalized Intersections using 'TrafficPatternsXD' SS-112
- Refer to Regional Municipality of York Typical Detail for Bike Box and Side Road Pedestrian Curb Ramp Interface D-10.02
- 4. Refer to sections 4.5.6-7
- 5. Refer to sections 4.5.8-9
- 6. Refer to section 5.0 for more information on materiality.



5.0 MATERIALITY





5.0 MATERIALITY

5.1 HARDSCAPE MATERIALITY

The hardscape material palette aids in creating a contemporary and cohesive streetscape.

The material palette complements the vivaNext materials, creating a sense of visual cohesion while also differentiating the streetscape.

LID and sustainability initiatives are employed wherever possible within the hardscape. For instance:

- Materials with light albedo are used in order to mitigate the Urban Heat Island effect.
- Permeable materials are used where feasible in order to mitigate flooding and recharge ground water.
- Recycled materials are used where possible such as within the cycle track and MUP, as well as within the roadway sub-base.
- Engineered green walls provide an opportunity to optimize planting within the streetscape.

This section outlines the hardscape material palette that is recommended for Yonge Street and Davis Drive.

* Proprietary materials provided for design intent and performance standard for the purposes of the Streetscape Master Plan. Approved equal can be substituted at Detailed Design stage.

5.1.1 PAVING MATERIAL PALETTE MATRIX

Location	Material Type	Suggested Brand	Recommended Product	Colour(s)	Finish	Unit Size	
Sidewalk	Concrete	N/A	N/A	Light Grey	Textured	N/A	
Multi-Use Path	Asphalt	N/A	N/A	Black	N/A	N/A	
Pedestrian Zone at Intersections Field	Unit Pavers	Unilock	Artline	Alpine Fusion	Artline	Various (7cm depth)	
Pedestrian Zone	Unit Pavers	Unilock	IL Campo	Heritage Brown	IL Campo	4 x 8 " (20cm x 10cm x 7cm)	
at Intersections Banding	Unit Pavers	Unilock	Series 3000	Black Granite	Series 3000	4 x 8" (20cm x 10cm x 7cm)	
Planting Zone Furnishings Field	Unit Pavers	Unilock	Artline	Alpine Fusion	Artline	Various (7cm depth)	
Planting Zone Furnishings Banding	Unit Pavers	Unilock	IL Campo	Heritage Brown	IL Campo	4x12" (20cm x 10cm x 7cm)	
Cycle Track Tactile Banding	Unit Pavers	Unilock	IL Campo	Heritage Brown	IL Campo	4x12" (20cm x 10cm x 7cm)	
Continuity Strip	Unit Pavers	Unilock	IL Campo	Heritage Brown	IL Campo	4x12" (20cm x 10cm x 7cm)	
VivaNext Field	Unit Pavers	Unilock	Umbriano	Winter Marvel	Umbriano	Small Square (20cm x 20cm x 7cm) Rectangle (40cm x 20cm x 7cm) Square (40cm x 40cm x 7cm)	
VivaNext Tactile Banding	Unit Pavers	Unilock	Umbriano	Summer Rose & Midnight Sky	Umbriano	16x16" (40cm x 40cm x 7cm)	

UPDATED May 30, 2022

HARDSCAPE MATERIAL PALETTE MATRIX (CONTINUED)

Location	Material Type	Suggested Brand	Recommended Product	Colour(s)	Finish	Unit Size	
Curb Ramp Tactile Plates	Cast Iron Tactile Plates	Neenah	AODA Compliant Detectable Warning Plates	Unpainted	Unpainted	Width varies pending site condition (610mm depth)	
Crosswalk	Thermoplastic Pavement Markings	Flint	TrafficPatternsXD	Colonial Brick and White	N/A	3000mm wide	
Median Field	Unit Pavers	Unilock	Artline	Alpine Fusion	Artline	Various (7cm depth)	
Median Banding	Unit Pavers	Unilock	IL Campo	Heritage Brown	IL Campo	4x12" (20cm x 10cm x 7cm)	

* Proprietary materials provided for design intent and performance standard for the purposes of the Streetscape Master Plan. Approved equal can be substituted at Detailed Design stage.

5.1.2 RETAINING WALLS

Retaining walls should be used where necessary throughout the corridors. Green walls should be implemented wherever possible. Retaining wall should be aesthetically cohesive with the contemporary style of the streetscape and hardscape materials.





Pedestrian Retaining Wall Option: 200mm-1200mm Engineered Retaining Wall Option: 1200mm +

5.0 MATERIALITY

UPDATED May 30, 2022 5.1.3 TREE GRATES

Contemporary tree grates with clean lines should be used within urban corridors.

Accenturba's Aztec square powder coated steel grates (below) are recommended.



Engineered Green Wall

5.2 SOFTSCAPE MATERIALITY

5.2.1 TREE SPECIES PLANTING LOCATION MATRIX

Visualization	Species	In Tree Grates/ Planters	Hydro Form	In Sod	Screening	Medians
	Hackberry <i>Celtis occidentalis</i> **	•		•	•	
	Honeylocust Gleditsia triacanthos var. inermis	•		•	٠	•
	Horsechestnut Aesculus hippocastanum	•		•	٠	
	Kentucky Coffeetree <i>Gymnocladus dioicus</i>	•		•	٠	•
	Ohio Buckeye <i>Aesculus glabra</i>	•		•	•	
	Silver Maple Acer saccharinum	•		•	•	
	Swamp White Oak <i>Quercus bicolour</i> **	•		•	•	
	Ivory Silk Tree Lilac Syringa reticulata 'Ivory Silk'	•	•	•	•	
	Shubert Cherry Prunus virginiana 'Shubert'	•	•	•	•	
- Canal and a second	Bradford Pear <i>Pyrus calleryana</i>	•	•	•	•	

Roads.

** Pending approval by York Region

* This matrix provides a sample of suitable species. Planting should be cross-referenced with the most current version of The Regional Municipality of York Acceptable Street Tree Species for Regional

*** Rain Garden planting palette to follow in Section 5.2.4

5.2.2 SHRUB SPECIES MATRIX

Visualization	Species	Landscape/ Planters	Screening	Medians
	Saltspray Rose <i>Rosa rugosa</i>		•	•
	Staghorn Sumac <i>Rhus typhina</i>		•	
	False Spirea <i>Sorbaria sorbifolia</i>		•	•
	Red Osier Dogwood <i>Cornus sericea</i>	•	•	•
	Gro low Sumac Rhus aromatic 'Gro-Low'	٠	•	•
	Fragrant Sumac Rhus aromatic	٠	•	•
	Northern Bayberry <i>Myrica pensylvanica</i>	•	•	
	White snowberry Symphoricarpos albus	•	•	
	Goldstar Potentilla Potentilla Fruticosa 'Gold Star'	•	•	•
	Abbotswood Potentilla <i>Potentilla Fruticosa</i> 'Abbotswood'	•	•	•

* This matrix provides a sample of suitable species. Planting should be cross-referenced with the most current The Regional Municipality of York acceptable streetscape planting list.

* Rain Garden planting palette to follow in Section 5.2.4 FINAL

5.0 MATERIALITY

5.2.3 PERENNIALS AND ORNAMENTAL GRASSES MATRIX

Visualization	Species	Landscape/ Planters	Screening	Medians
	Daylily Hemerocallis sp.	•		•
	Black Eye Susan/ Orange Coneflower <i>Rudebeckia fulgida</i>	•		•
	Purple Coneflower Echinacea purpurea	•		•
	Sedum 'Autumn Joy' 'Autumn Fire' Munstead Dark red' <i>Sedum sp.</i>	•		•
	Snow'n summer <i>Cerastium tomentosum</i>	•		
	Carnations/ Pinks <i>Dianthus sp.</i>	٠		
	Threadleaf Coreopsis <i>Coreopsis verticallata</i> 'Zagreg'	•		
	Sea thrift America maritime 'splendens'	•		
	Feather Reed Grass Calamagrostis x acutifolia 'Karl Foerster'	•	•	•
	Eldorado Feather Reed Grass <i>Calamagrostis x El dorado</i>	•	٠	•
	Red Switch Grass Panicum virgatum 'Shenandoah'	•	•	•
	Blue Switchgrass Panicum virgatum 'Heavy metal'	•	٠	•

* This matrix provides a sample of suitable species. Planting should be cross-referenced with the most current The Regional Municipality of York acceptable streetscape planting list.

** Rain Garden planting palette to follow in Section 5.2.4

5.2.4 RAIN GARDEN PLANT PALETTE

	Visualization	Species
		Big Bluestem Grass Andropogon gerardii
		Feather Reed Grass <i>Calamagrostis x acutifolia</i> <i>'Karl Foerster'</i> **
		Tufted Hairgrass Deschampsia cespitosa
Grasses		Canada Wild Rye <i>Elymus canadensis</i>
		Virginia Wild Rye Elymus virginicus var. virginicus
		Fountain Grass <i>Pennisetum hameln</i>
		Little Bluestern Schizachyrium scoparium

Visualization	Species
	Red columbine <i>Aquilegia canadensis</i>
a la Canada	Swamp Milkweed Asclepias incarnata ssp. incarnata
Sale - Sale	Butterfly Weed Asclepias tuberosa
	Showy Trick Trefoil Desmodium canadense
	Purple Cone Flower Echinacea purpurea **
	Joe Pye Eupatorium maculatum ssp. maculatum
	Ox Eye Heliopsis helianthoides
	Shasta Daisy <i>Leucanthemum x superbum</i>
	Wild Bergamot <i>Monarda fistulosa</i>
	Black Eyed Susan <i>Rudbeckia hirta</i>
	New England Aster Symphyotrichum novae angliae
	Blue Vervain <i>Verbena hastata</i>
	Hoary Vervain <i>Verbena stricta</i>

Broadleaf Herbaceous (and Ferns)

* This matrix provides a sample of suitable species for Rain Gardens. The matrix provides species that are not included in the The Regional Municipality of York acceptable streetscape planting list, and should be approved by the Region before specified in detailed design.

** Connotes species on The Regional Municipality of York acceptable streetscape planting list

FINAL

RAIN GARDEN PLANT PALETTE (CONTINUED)

	-
Visualization	Species
	Allegheny Serviceberry
	Amelanchier laevis
	Chokeberry
Sector 11 and	Aronia melanocarpa
	Gray dogwood Cornus foemina ssp.
	racemosa
	Red Osier Dogwood
	Cornus sericea**
Carlor Arthol	Spicebush
the second second	Lindera benzoin
	Northern Bayberry
	Myrica pensylvanica
Martin Carlos	
	Ninebark Physocarpus opulifolius
	T Trysocarpus opunionus
	Sumac
the second second	Rhus aromatica**
Carl Andrea	Thimbleberry
	Rubus odoratus
A CONTRACT OF A CONTRACT.	Pussy Willow
A ANTAL ANTA	Salix discolor
	Nerroude of Willow
	Narrowleaf Willow <i>Salix exigua</i>
CARGE M	
	Red Elder
	Sambucus racemosa ssp. pubens
	Arrowwood Vibrurnum
	Viburnum dentatum
	Nannyberry
SCORE Last	Viburnum lentago

	Visualization	Species
		Silver Maple Acer saccharinum**
		Paper Birch <i>Betula papyrifera**</i>
		Common Hackberry <i>Celtis occidentalis**</i>
		Gingko Ginkgo biloba
Trees		Honey Locust Gleditsia triacanthos var. inermis**
		Black Cherry <i>Prunus serotina</i>
		Swamp White Oak <i>Quercus bicolor**</i>
		Bur Oak <i>Quercus macrocarpa**</i>
		Northern Red Oak <i>Quercus rubra</i>

** Connotes species on The Regional Municipality of York acceptable streetscape planting list

* This matrix provides a sample of suitable species for Rain Gardens. The matrix provides species that are not included in the The Regional Municipality of York acceptable streetscape planting list, and should be approved by the Region before specified in detailed design.

5.3 FURNISHING

YORK REGION CO-ORDINATED STREETSCAPE FURNITURE PROGRAM 5.3.1

Kramer Design Associates (KDA) developed a Co-Ordinated Street Furniture Program for York Region. The Streetscape Furniture has been designed to:

- Comply with AODA standards; •
- Develop a cohesive aesthetic; •
- Create a contemporary character; ٠
- Minimize visual clutter; •
- Address CPTED principles; •
- Provide a space for advertising, maps or local events (in bus shelters); ٠
- Be comfortable and ergonomic for users; and ٠
- Create a modular kit-of-parts for ease of construction, maintenance and repair.

The streetscape furniture should be placed within the Furnishing Zone typically at intersection locations where pedestrian volumes are greatest as well as midblock at YRT stops. Furnishing should:

- Respond to specific contextual needs; •
- Meet AODA requirements; and •
- Respect sight-lines, setbacks and clearances. ٠

5.3.2 BUSINESS IMPROVEMENT AREA (BIA) **ELEMENTS**

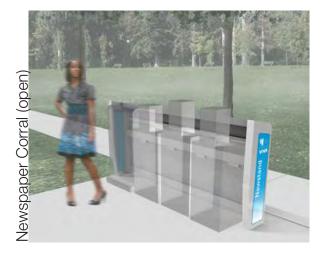
- If a future BIA becomes involved in a corridor of the streetscape, BIA assets should visually tie-in with the York Region Standard Furniture.
- Planters and other BIA furnishing elements should be placed in the Planting and Furnishing Zone.
- BIA banners and signature hanging planters could be added to the light poles to enhance placemaking.













5.0 MATERIALITY

Streetscape furnishing images courtesy of KDA

5.4 LIGHTING

The lighting should fit within the contemporary streetscape aesthetic as well as complement the adjacent vivaNext streetscape. Technilum Technilox in charcoal is the recommended lighting (or approved alternative). In order to provide a variety of lighting levels to respond to the local context, the following fixtures should be utilized throughout the corridors:

- Street lights,
- Street lights with pedestrian luminaire, Pedestrian lights, ٠
- •
- Bollards, and •
- Feature lighting.

The lighting poles contain a slot system that allow for the addition of signage, traffic lights, banners, hanging baskets and other fixtures directly onto the pole, reducing streetscape clutter.















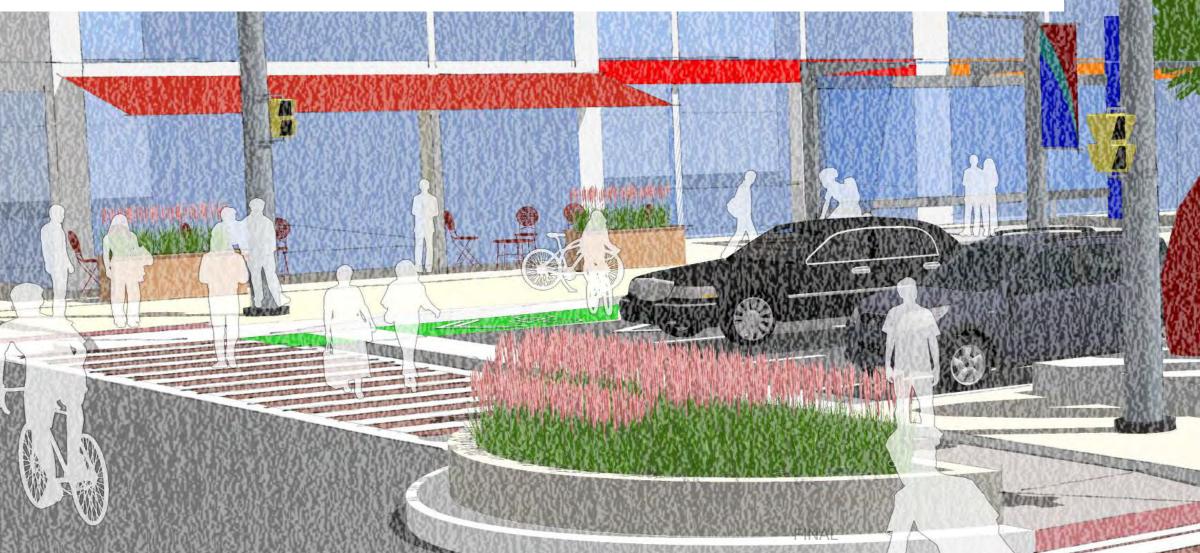
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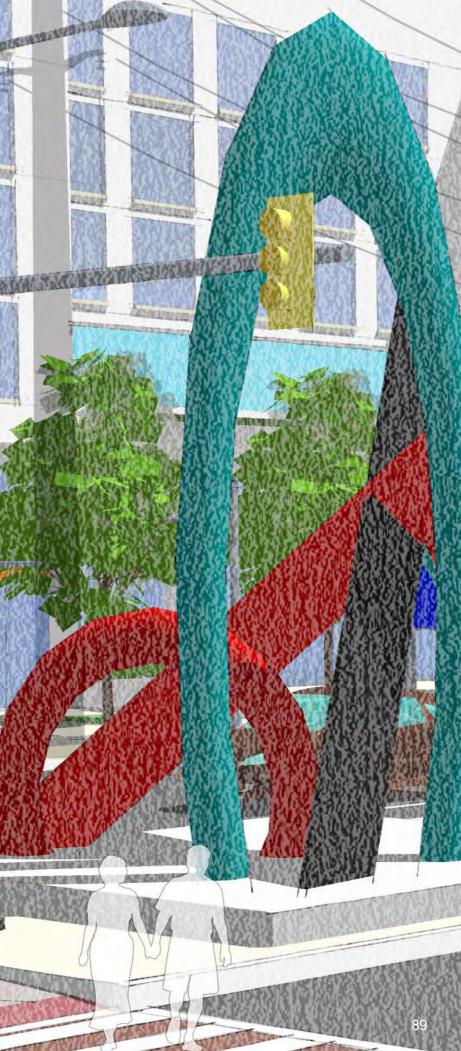


All lighting images courtesy of Technilum



6.0 URBAN DESIGN CHECKLIST





The Urban Design Checklist is a tool to be used by development review staff at the Town of Newmarket and York Region when reviewing private development applications within the corridor limits to ensure principles of the Master Plan vision is upheld and realized.

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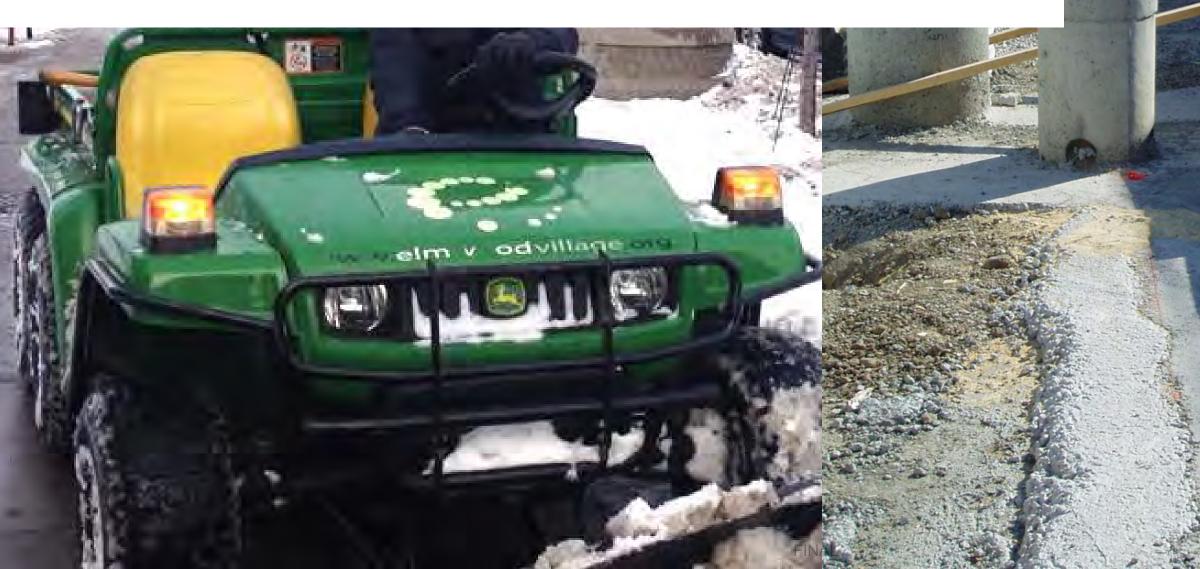
	Consolidated Urban Design Checklist
Built Form	Compose building height to fit within the locate context and comply with Secondary Planning initiatives and zoning by-laws.
	Design height of building to be proportional with the ROW and within the angular plane.
	Implement a lower rise podium facing the street in high rise buildings developments in order to retain human-scale and a visually balanced public ROW.
	Locate buildings close to street edge as per Secondary Planning initiatives and local zoning by-laws.
	Reinforce a continuity of built form and definition of the public realm through building placement at the street edge.
	Orient buildings to the street with surface parking lots located at the rear.
Building Access	Visually connect buildings and the access spaces in between to the streetscape.
	Locate active uses such as retail stores and service oriented businesses at-grade to animate the streetscape and allow for patio space or other open space pr
	Feature building fronts prominently at the street level to animate the streetscape.
	Clearly identify building entrances visually.
	Create easy access to buildings from street level.
	Locate parking lots in the rear of buildings or underground rather than fronting the streetscape.
	Avoid segregating buildings from the street with elements such as walls, berms or fences.
	Minimize midblock vehicle entry points where possible and locate them a sufficient distance from intersections so they do not impede on pedestrian circulation
	Ensure that setback encourages and active streetscape and upholds the Secondary Plan and local zoning by-laws.
Forecourt	Create an intersecting street wall through built form.
orec	Use windows and high quality materials to create an attractive, human-scale environment at ground level.
	Provide amenities such as canopies, shade structures and arcades along the street front to protect pedestrians from the elements.
tback &	Provide street furniture, patios and other amenities along the street front to animate the public realm.
S S	Outdoor spaces should be easily accessible for all users.
ing	Paving materials used in building forecourts are complementary to the building design and the streetscape materiality.
Building	Review location and extent of private paving materials in front of building developments to delineate maintenance responsibilities between private property own
ш	Review if encroachment agreements are necessary.
ED	Ensure that all development complies with current AODA standards for exterior spaces.
AODA CPTED	Ensure private development features do not impede natural surveillance to and from the public ROW.
Plant Material	Specify plant material that is hardy, salt tolerant and complimentary to the planting within the public ROW.
	Provide seasonal interest with plant species.
	Ensure clear sight lines and safety setbacks are adhered to as per the York Region Site Triangle Manual and/ or TAC or engineering best practices.
dir	Review grading interface between private and public realm to ensure an even gradual slope transition, and/ or per Town and Region Standards.
	Ensure all surface runoff from private development stays within private property boundary, and/ or per Town and Region Standards.

PHASE 4 REPORT: DETAILED DESIGN GUIDELINES AND STANDARDS

	\checkmark
programming adjacent to the streetscape.	
ion or bus stops.	
owner and municipality.	
when and municipality.	



7.0 NEXT STEPS





7.1 NEXT STEPS

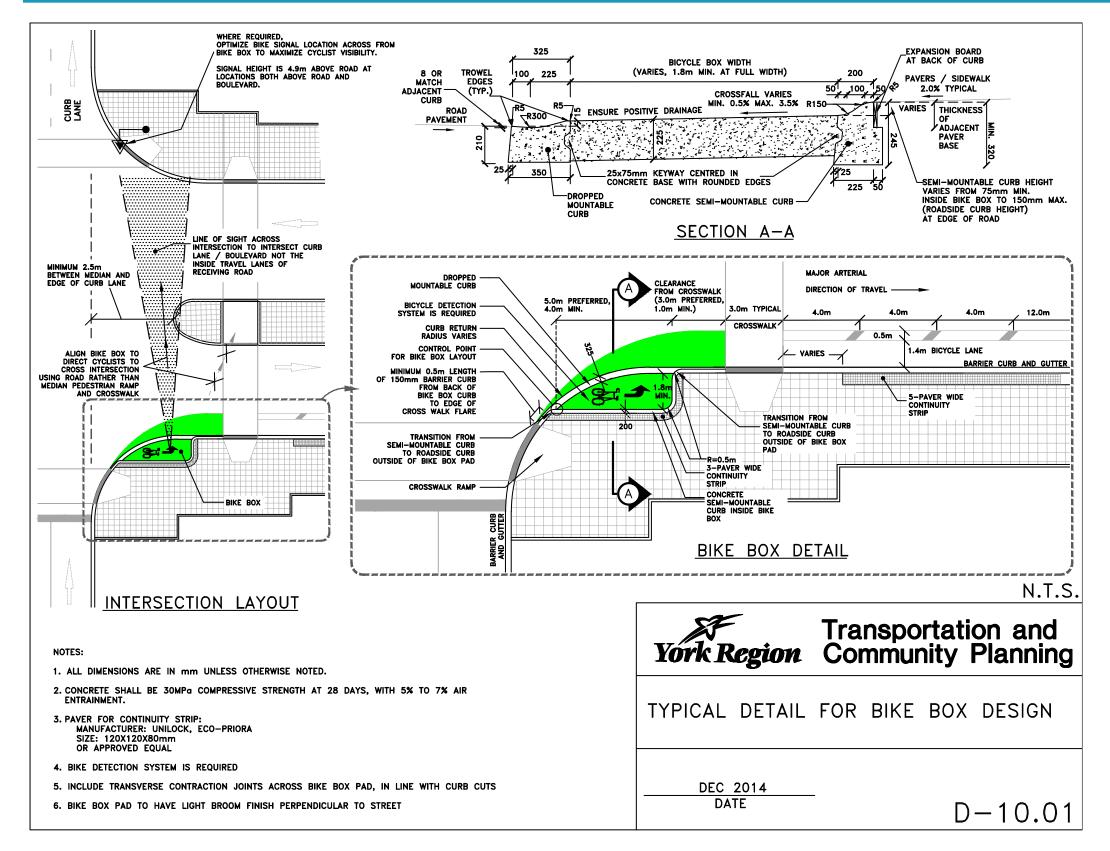
The final Yonge Street & Davis Drive Streetscape Master Plan report is Phase 5: Operations and Maintenance Considerations. This report will outline the projected costs for the construction and maintenance of the proposed Streetscape Master Plan. The report will examine unit costs of streetscape elements in order to develop and Order of Magnitude Capital Cost Estimate.



A. GLOSSARY OF ACRONYMS AND TERMS

BIA	Business Improvement Area
CIP	Cast In Place
CPTED	Crime Prevention Through Environmental Design
LID	Low Impact Development
Low albedo	A surface that absorbs the majority of incoming sun radiation and reflects a small amount of it.
MUP	Multi-Use Path
TAC	Transportation Association of Canada

B. YORK REGION BIKE BOX DETAIL



APPENDIX

C. YORK REGION CROSSWALK DETAIL

