Queens Quay Working Group Meeting #10

April 26, 2011

Agenda

- Welcoming remarks
- 2. Introduction and meeting overview
 - a. Review agenda
 - b. Review draft meeting minutes from March 22nd
 - c. Review comments/issues matrix
- 3. Report back on BIXI program
- 4. Queens Quay process update
- 5. Meeting working schedule and next steps

Working Schedule

WORKING GROUP MEETING		AGENDA ITEMS			
8	February 17, 2011	 Update on Queens Quay phasing/funding Update on Curbside Management Plan Update on Yonge Street, York Street and Bay Street ramp EA James Urban introduction to working group 			
9	March 22, 2011	Curbside management working session			
10	April 26, 2011	 Queens Quay design update Report back on issues/comments			
11	May 24, 2011	 Introduction to accessibility Update on Curbside Management Report back on issues/comments 			

BIXI Toronto Public Bicycle System

Sean Wheldrake,
Cycling Infrastructure and
Programs Unit.

What is a Public Bicycle System?



What is a Public Bicycle System?

- Designed to operate like an extension of the public transit system.
- To be used for one-way trips of less than 30 minutes in duration.

How does a Public Bicycle System Operate?

- Regular users purchase a membership or "pass" for, one month to one year
- Have 24-7 access to the bicycles
- There is no trip fee if the bicycle is returned within 30 minutes
- Bicycles can be picked up and dropped off at any bicycle parking station
- Non-members or day users access system at any station with credit card

BIXI Toronto. 24-7. 365 days a year.



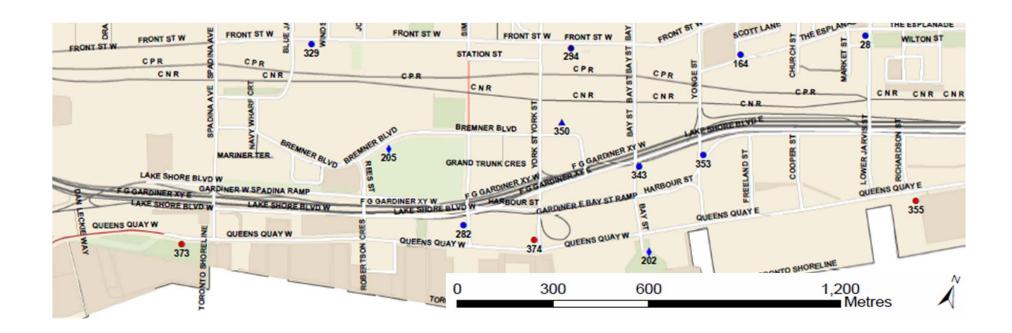
Users have 30 minutes







A Network of Stations



Fees

Basic fees + Usage fees for each trip



Interconnexion of transportation modes



Bike sharing system facilitates your commute until the last kilometre.

- Easy to use
 - Efficient
- Economic

Design. Innovation. Technology.



- Discrete system blending in urban landscape without overriding it
- Practical and aesthetic
- Modern and elegant design
- Safe and robust bikes

Design. Innovation. Technology.

No permanent infrastructure.

Bikes, docking points and transactional kiosks:

modular and ready to use ("plug and play").



Design. Innovation. Technology.

BIXI. AN ENVIRONMENT FRIENDLY SYSTEM.

Minimum impact on the environment – modular and portable, requiring no excavation or preparatory work for installation

Wireless communications technology Solar energy powered

Minimum impact on the environment from installation to operations







Pay Station



TRANSPORTATION SERVICES
Transportation Infrastructure
Management Section

The Bicycle



- aluminum frame light, strong, durable
- active lighting front and back, always on
- Front and rear internal brakes for greater safety
- Adjustable seat positioning standardized through entire fleet of bikes
- Suitable for wide range of riders
- Low center of gravity for greater stability

TRANSPORTATION SERVICES

Transportation Infrastructure Management Section

Background



- → Cities around the world are looking for long term and concrete solutions to diminish negative effects on the environment and the reduction of our addiction to car transportation.
- → The City of Montreal transportation plan focuses on active transportation.
- → **October 2007**, the City of Montreal gives to Stationnement de Montréal the mandate to create, develop and operate a bike sharing system.



Successful in Montreal



- More than 28,000 annual members
- More than 100,000 day users
- More than 2 million rides
- 5,000 bikes/ 400 stations
- Millions of kg of green house gases less

BIXI Bike Community



A people community identifying themselves to and gathering around **environment protection**

0

A people community who have adopted a **healthy lifestyle**, **focused on health and physical activity**

0

A people community praising the use of public transportation



A people community tracing the path and setting trends



A people community who are pioneers in the bike sharing revolution around the world





Contact BIXI Toronto

• Email: info@toronto.bixi.com

Toll free: 1-877-412-BIXI (2494)



Questions?





Sean Wheldrake Project Lead

Cycling Infrastructure and Programs Unit Transportation Services City of Toronto 850 Coxwell Ave. 1 Flr. Toronto, Ontario M4C 5R1

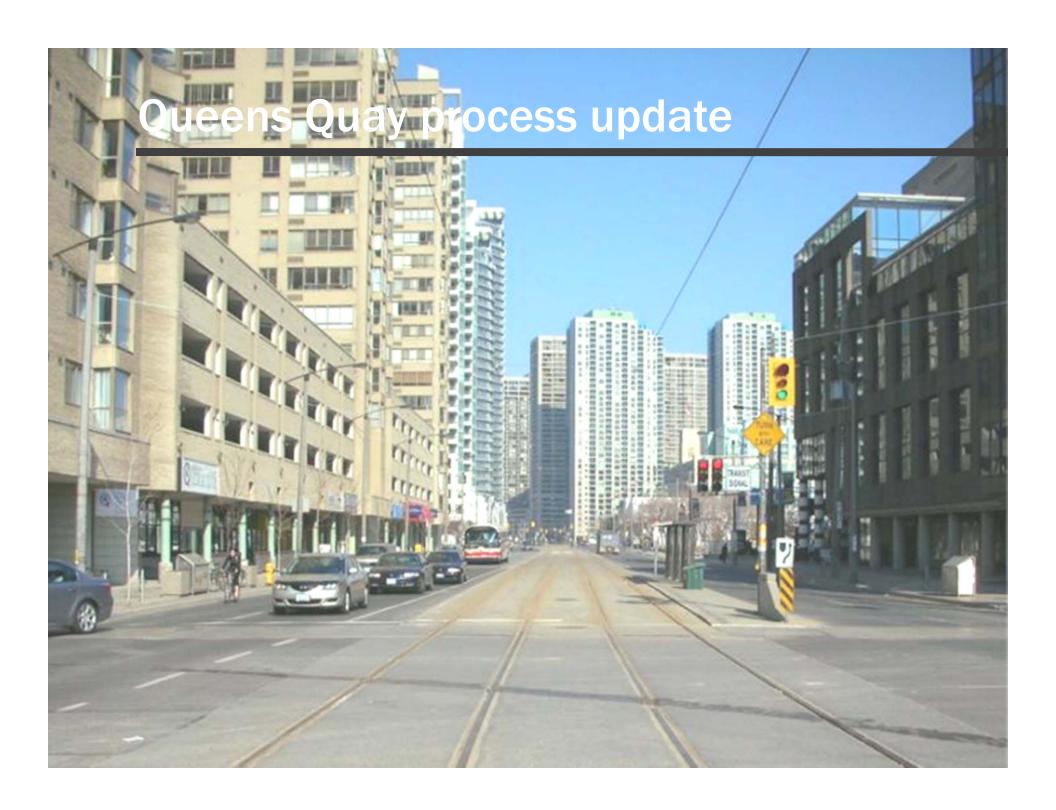
Ph: 416 392-1143

Fax: 416 392-0071

swheldra@toronto.ca

TRANSPORTATION SERVICES

Transportation Infrastructure Management Section



SCHEMATIC DESIGN

Queens Quay



TORONTO CENTRAL WATERFRONT - EAST BAYFRONT QUEENS QUAY REVITALIZATION

PROGRESS SUBMISSION #1

2010.10.26





WEST 8 + DTAH

Typical Mid-block Plan & Sections
Typical Intersections
Traffic Signage and Street Axonometr
TTC Details
TTC Track Details
TTC Portal

NOTE: EAST BAYFRONT DRAWINGS TO BE SUBMITTED AT A LATER DATE.

OVERALL PHASING STRATEGY

2011-03-28

TODAY Overall Concept Topographical survey Geotechnical Investigation Gap analysis - draft report Schematic Design Costing Analysis TTC / City Review EA Ammendments (CWEF & EBF) Central Waterfront Priority Items Design Development WT Review Costing Analysis TTC/City Review CD Design CWF Street Safety Audit TTC ROW Design Traffic Signalization Utility Groups Design (incl Toronto Hydro) Geotechnical Investigation Design Reviews WT Review Costing Analysis TTC / City Review Tender / Construction East Bayfront EBF DD Design - Incl. LRT WT Review Costing Analysis TTC/City Review EBF CD Design - Linear Park CWF Street Safety Audit TTC ROW Design Traffic Signalization Utility Groups Design (Incl. Toronto Hydro) Design Reviews Costing Analysis TTC / City Review Tender / Construction

SCHEMATIC DESIGN

2010.10.26



TORONTO CENTRAL WATERFRONT - EAST BAYFRONT QUEENS QUAY REVITALIZATION

PROGRESS SUBMISSION #1

2010.10.26





WEST 8 + DTAH

Sections L-3(.1 to .2)

Typical Mid-block Plan & Sections Typical Intersections Traffic Signage and Street Axonometric TTC Details TTC Track Details TTC Portal

Plan E-1(.1 to .3)

NOTE: EAST BAYFRONT DRAWINGS TO BE SUBMITTED AT A LATER DATE.

QUEENS QUAY

Progress Submission #1 Design Review Comments

Revised as per meetings with City of Toronto Departments

2011.03.23





	Dept / Section	Comments Received	Meeting with City Dept.	Page	
i .					
	TTO O LA Planta	2010 10 00	2011 20 21		
	TTC - System Planning	2010-12-03	2011-02-01	1	
	TTC - Streetcar Way	2010-12-03	2011-02-01	3	
	TTC - Electrical	2010-12-03	2011-02-01	5	
	Toronto Fire Services	2010-12-07	2011-02-01	9	
	EMS	2010-12-14	2011-02-01	13	
	Technical Services - Third Party Review	2010-12-22	2011-01-18	15	
	Technical Services - Third Party Review - UTILITIES	2010-12-22	2011-01-18	25	
	Technical Services - Structures & Expressways	2010-12-22	2011-01-18	27	
	Toronto Water	2010-12-22	2011-01-20	29	
	Transportation Services	2010-12-22	2011-01-20	37	
	Transportation Planning	2010-12-14	2011-01-20	49	
	Community Planning	2010-12-14	2011-01-18	51	
	Urban Design	2010-12-14	2011-01-18	53	
	Parks, Urban Forestry & Recreation	2010-12-14	2011-01-18	59	
	Urban Forestry	2011-01-04	2011-01-18	63	

Submitted: 2010-10-27

^{*} Comments / responses in blue indicate changes resulting from discussions with City Departments

DESIGN REVIEW COMMENTS

OVFRVIFW

TTC

- Spadina/QQ intersection platform width & configuration & Half Grand Union Design
 - -> platform 2.40m width & eastbound platform on east side of intersection
 - -> reduce distance between intersection crosswalk and leading edge of the streetcar platforms
- TTC ROW material
 - -> standard concrete top finish, no grass: TTC ROW to make the surface universally accessible to rubber tire vehicles
 - ->prove that other materials work at intersection (granite unit paver or concrete unit paver)
- Curb height -> 6" high
 - -> The TTC ROW must remain accessible to TTC buses and as a secondary emergency route for Fire and EMS
 - -> a proposed 5" curb
- Project Timing existing tracks must be replaced in 2012

Fire / EMS

- Proposed width of roadway -> wider then 6,60m
 - -> The TTC ROW must remain accessible to TTC buses and as a secondary emergency route for Fire and EMS
- •Maintain West and East driveways to EMS and egress accessibility for EMS vehicles
- •Lane width at Harbour Square
- •Curb height -> 4" high
 - -> a proposed 5" curb
- •Grass surface will not be acceptable along the TTC ROW
 - -> standard concrete top finish, grass will be eliminated from TTC ROW, make the surface universally accessible to rubber tire vehicles, a textured ROW

Technical Service

- •Utility spacing & subsurface utility engineering (storm/sanitary sewers)
- •Detailing widening of the Peter Slip Bridge
- Property impact
 - -> inventory of all properties along the corridor and list all potential impacts
- Road & track allowance
 - -> roads grades shall not be less than 0.5%

GENERAL COMMENTS 3TH PARTIES/STAKEHOLDERS

OVERVIEW

Toronto Water

- Relocation
- Silva cells/trees versus utilities

Transportation Service

- •Intersection design -> typical intersection has been revised
 - -> pedestrian crossings
 - -> location of stopbar
 - -> location of traffic poles (numbers, location, ...)
 - -> remove rumble strip
 - -> mixing zone
- Maintenance
- -> no mosaic on private ROW
- Alternative signal head colors is not acceptable
- Accessibility
- Extension of MGT west of Spadina
- Modifications to existing parks and adjacent properties
- Layby design
- Wider crosswalks: Simcoe, York, Bay Young all provide 4m crosswalks

Urban design

- Minimum pedestrian clearway -> minimum clearway is 1.70m as per accessibility guidelines
- Trees on the north side look like they may be short of soil -> minimum of 15m, spacing 10m (was 7.5m)

Parks, Forestry & Recreation

- Encroachments into parks/limits of work
- Clear sight lines should be provided (driveway)
- Potential for a physical barrier between Harbour Square laneway and MGT
- 90cm setback between MGT and TTC platforms
- Tree species/selection

90% DETAILED DESIGN/DEVELOPMENT

Queens Quay

90% DETAILED DESIGN

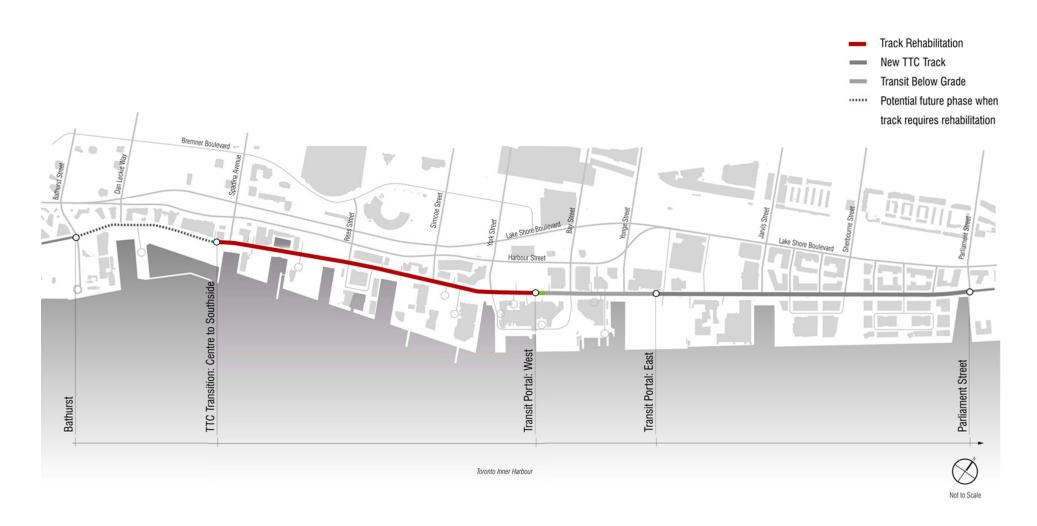
WATERFRONToronto 20 Bay Street, Suite 1310, Toronto, Ontario M53 2N8 tel: 416.214.1344 fax: 416.214.4591



TORONTO Technical Services

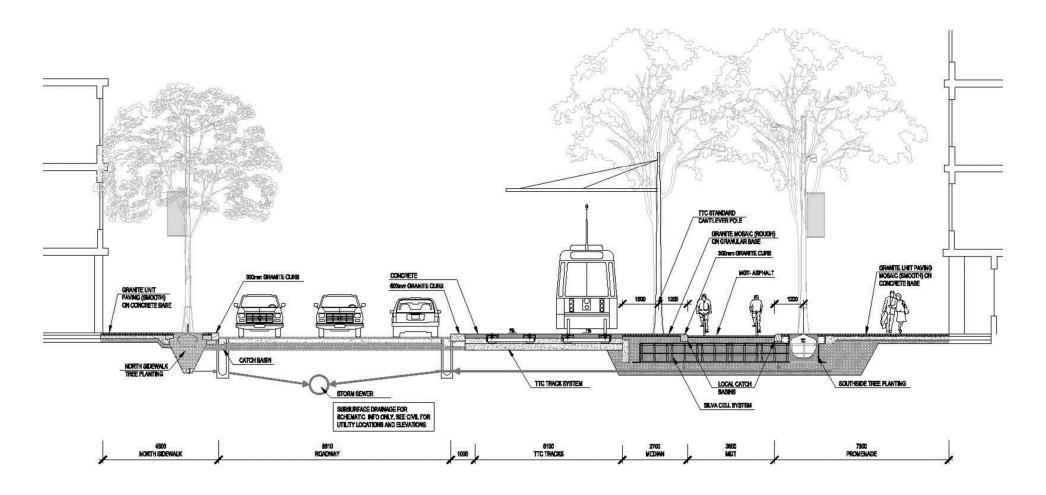
WEST 8 + DTAH

PROJECT BOUNDARIES



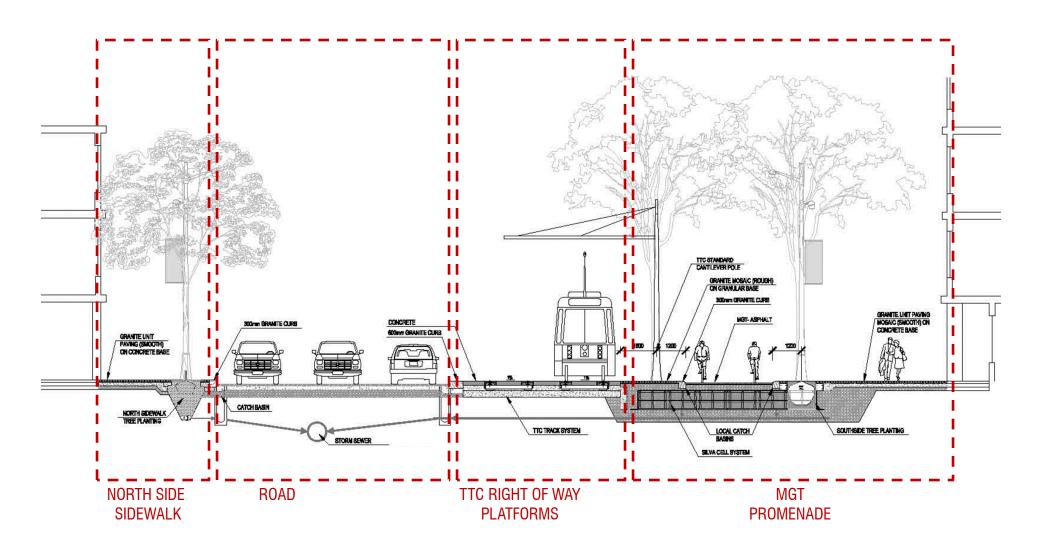
TYPICAL SECTION

Detailed Design 2011.03.31

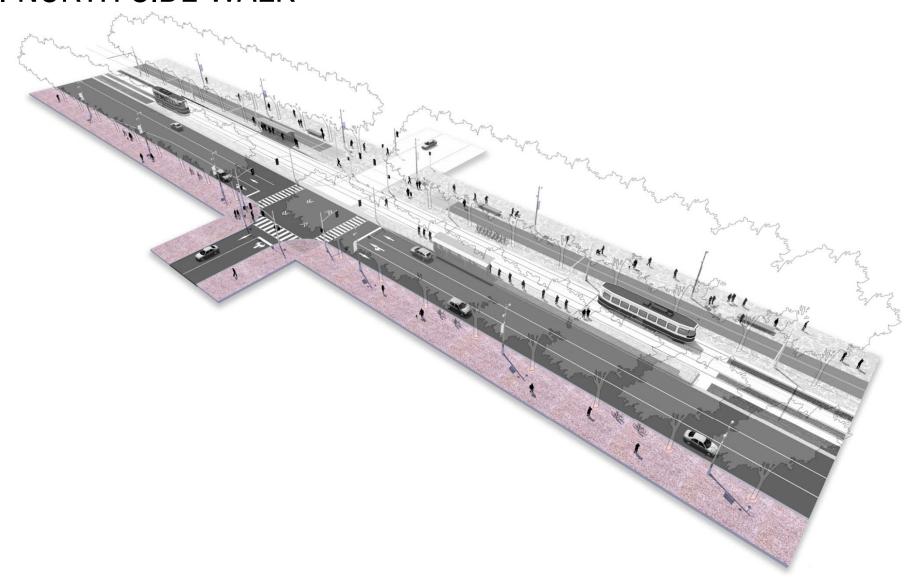


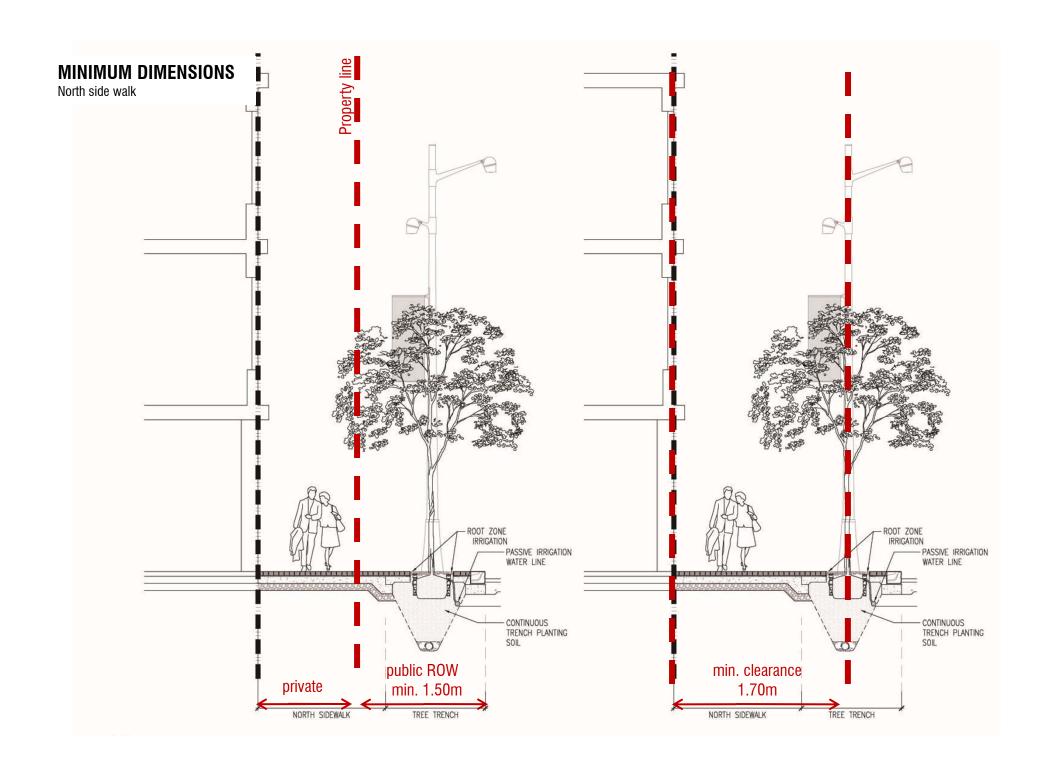
TYPICAL SECTION

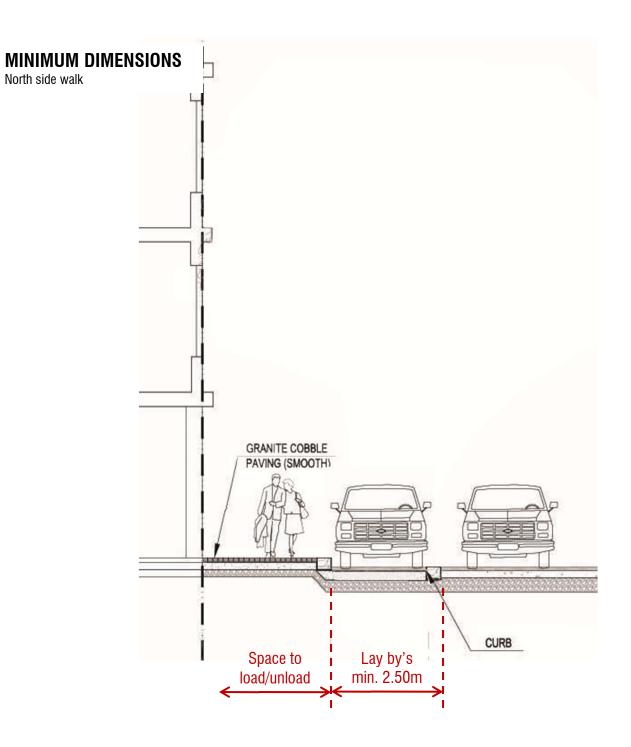
Detailed Design 2011.03.31



1. NORTH SIDE WALK



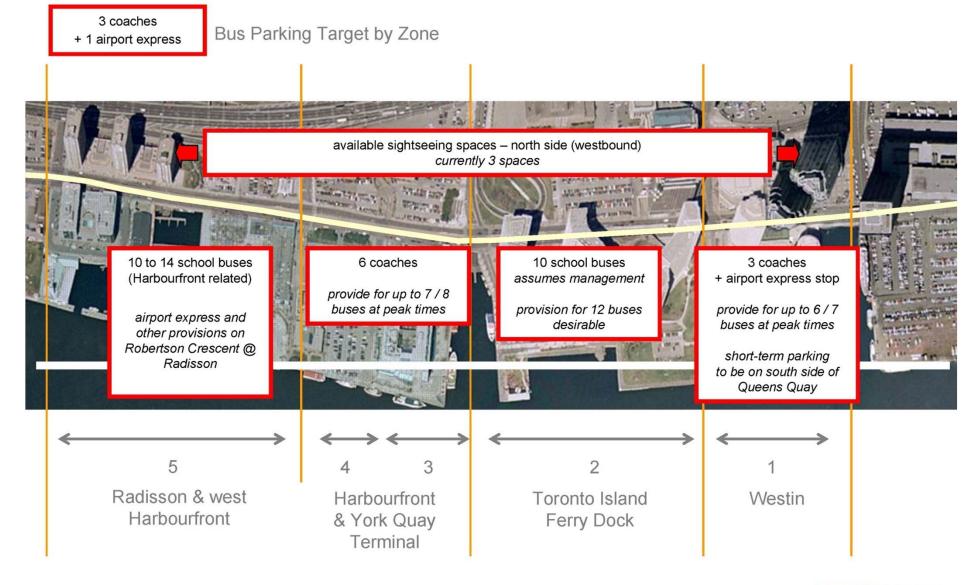




Changes:

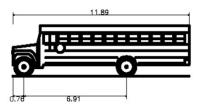
- location and amount of parking spaces/loading unloading along the north side

Design Bus Parking Demand Targets

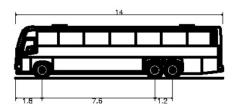




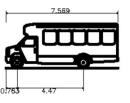
Typical Design Bus Dimensions



School Bus Length Width 11.9m 2.6m



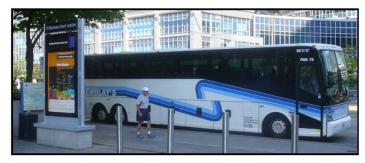
Highway Coach Length Width 14.0m 2.6m



Tour Bus Length Width



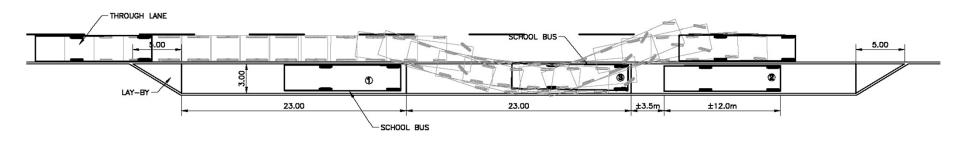




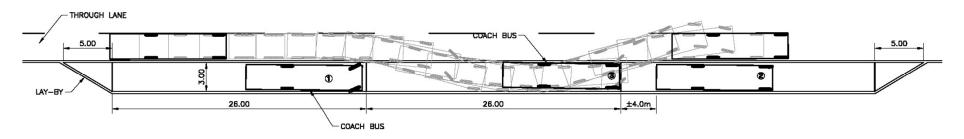




Bus Lay-By Design — Independent Entry Independent Egress



School Buses: +/- 23.0m per bus space



Motor Coaches: +/- 26.0m per bus space

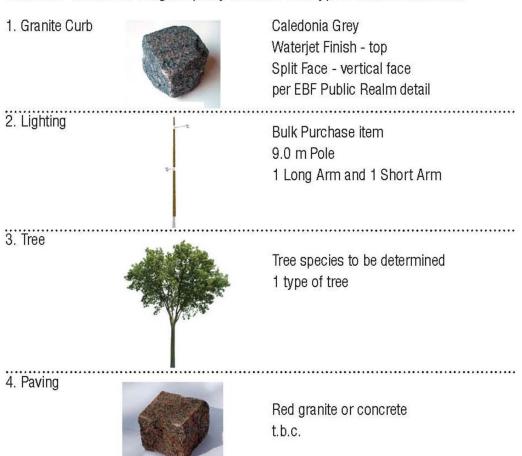


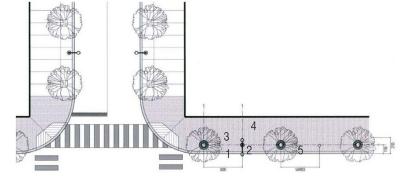
STREET ELEMENTS

5. Tree Ring

North side walk

Sidewalks should use a higher quality materials than typical Toronto sidewalks.

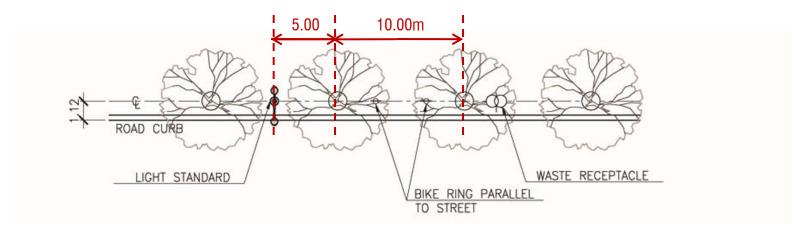




PLACING STRATEGY STREET FURNISHING

North side walk

Changes: - tree spacing









Garbage receptacle



Bike ring

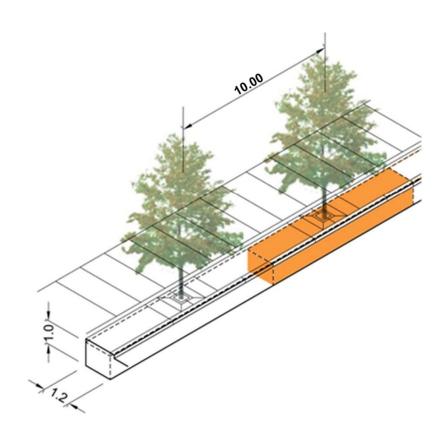
TREE PLANTING STRATEGY - CONDITIONS

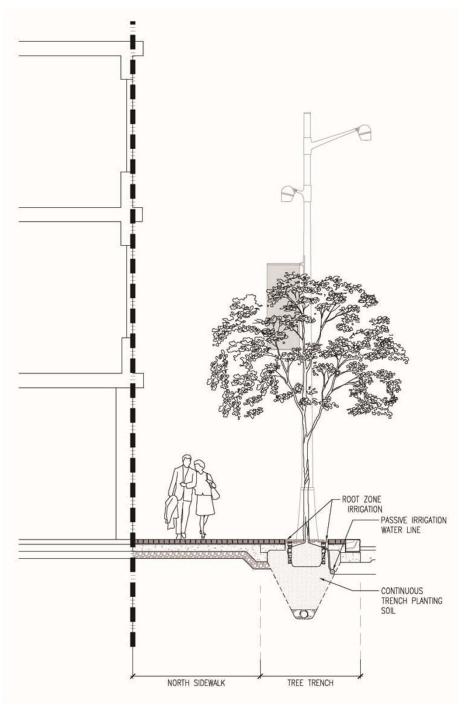
North side walk

Creating the ideal conditions to plant a tree

Continuous tree trench system similar or greater than soil volume of City of Toronto Standard

- approximately 8.7m3/tree





TREE PLANTING STRATEGY - CONDITIONS

North side walk 1.50m -GRANITE CURB - SEE 1/L-DET-007 - GRANITE UNIT PAVING -SEE 5/L-DET-005

VARIES

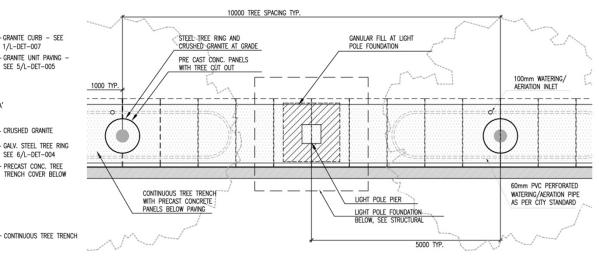
<u>PLAN</u>

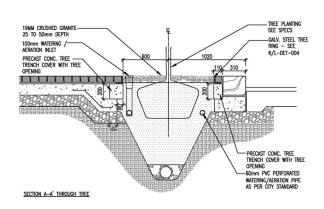
VARIES

CRUSHED GRANITE GALV. STEEL TREE RING SEE 6/L-DET-004 PRECAST CONC. TREE TRENCH COVER BELOW

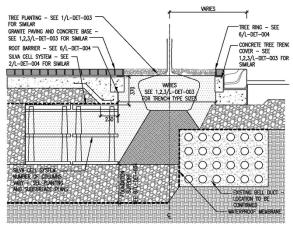
Changes:

- width of tree ring





VARIES



TRENCH AND SILVA CELL

TREE PLANTING STRATEGY - SPECIES SELECTION

North side walk

Changes: - tree species

Diverse variety of native species and hardy cultivars, planted to suit available soil conditions

Corylus colurna / Turkish Hazel



Ulmus / Princeton Elm



Tilia / Greenspire Linden



Acer / Sunset Maple



Gleditsia / Sunset Honeylocust

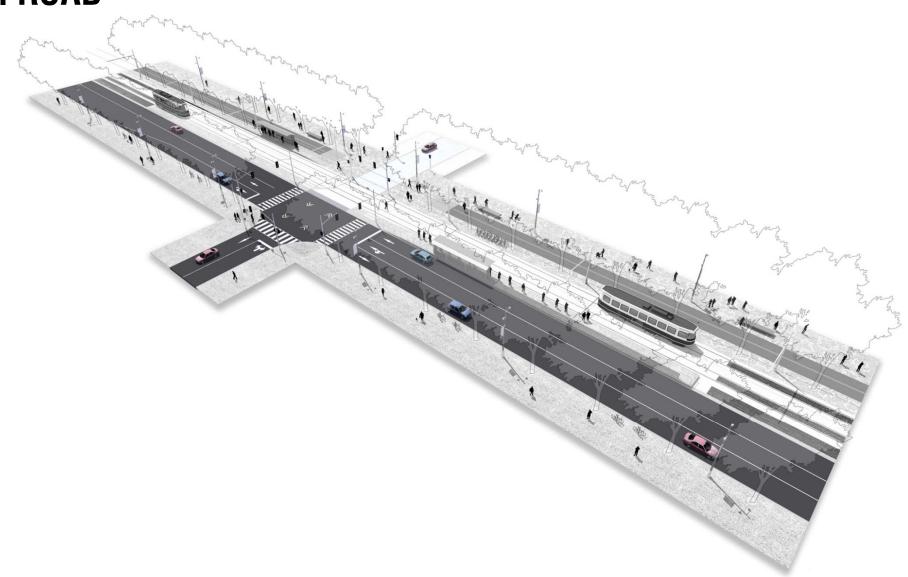


Acer / Freeman Maple





2. ROAD

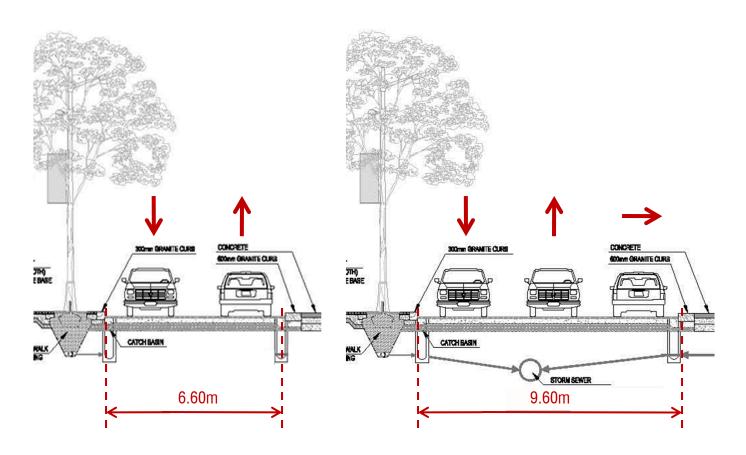


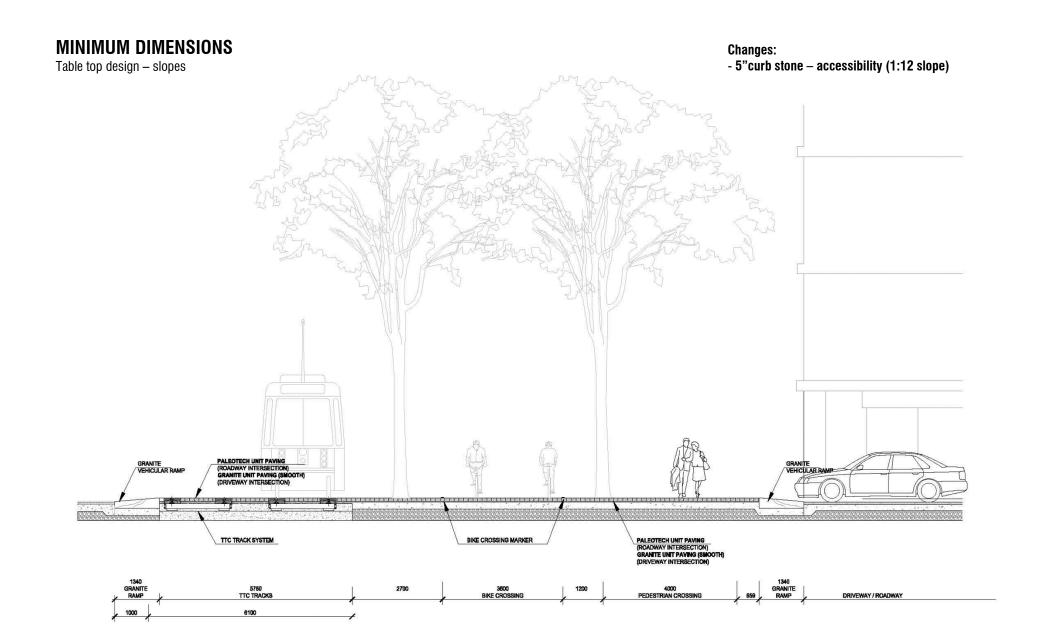
MINIMUM DIMENSIONS

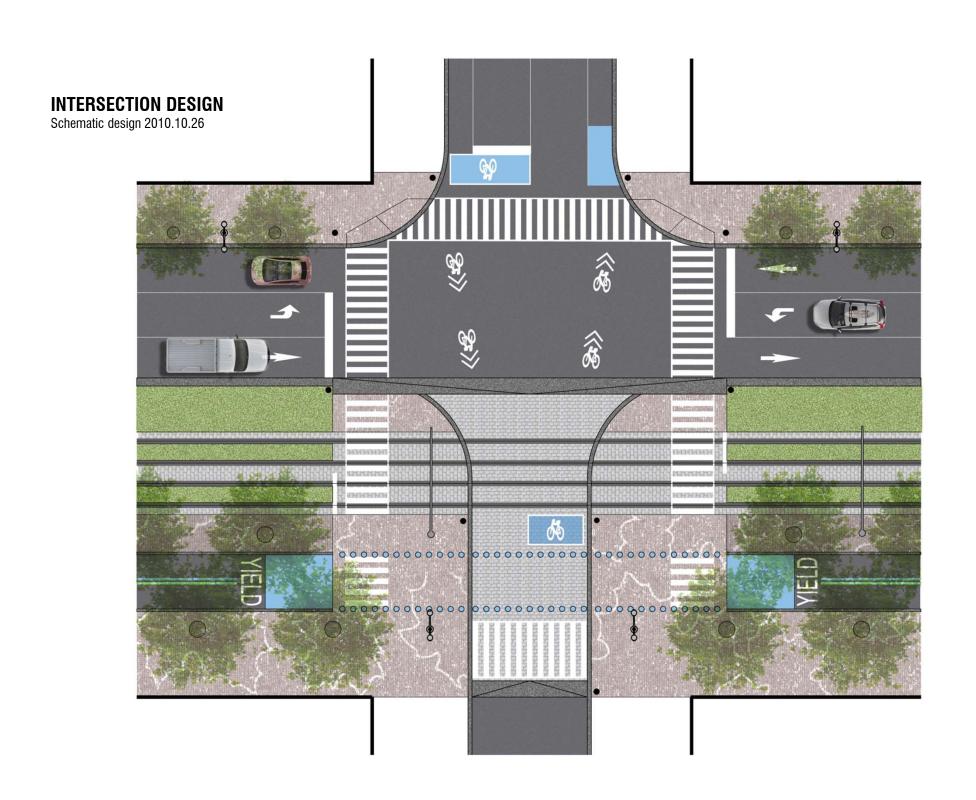
Changes: - 5"curb stone Road

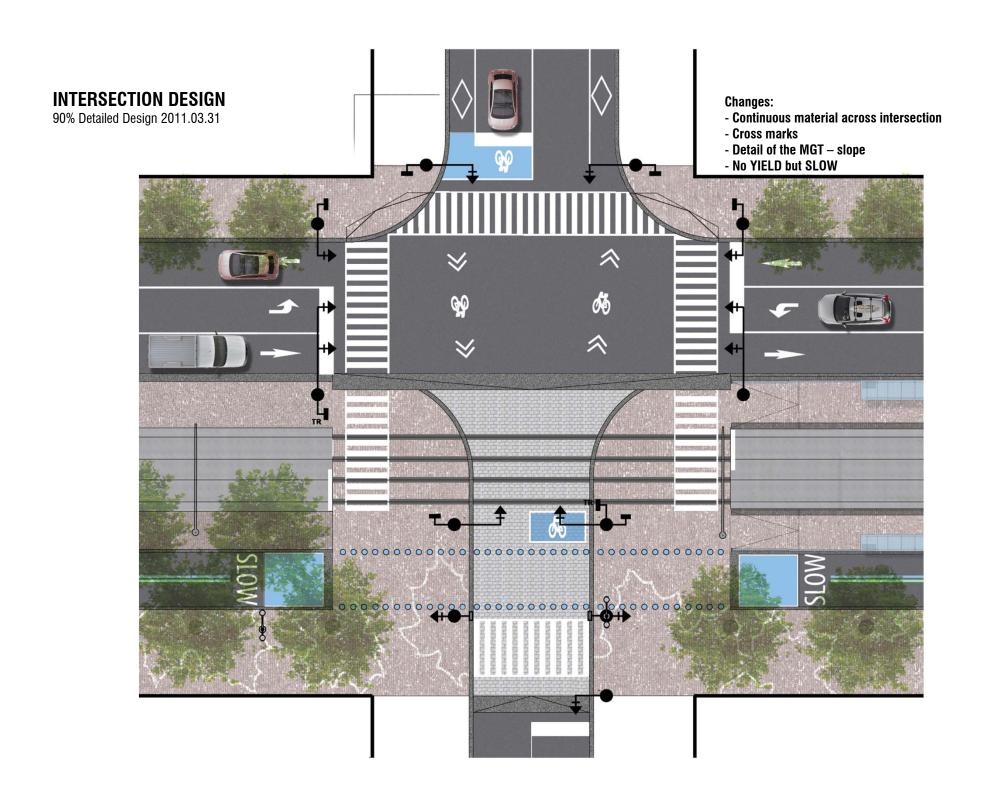
Typical road dimension

Road dimensions near an intersection





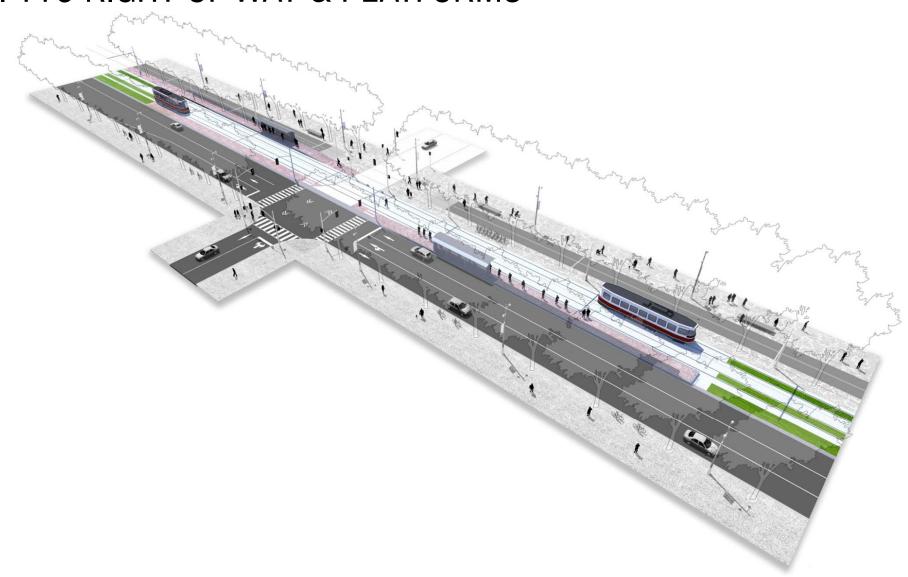








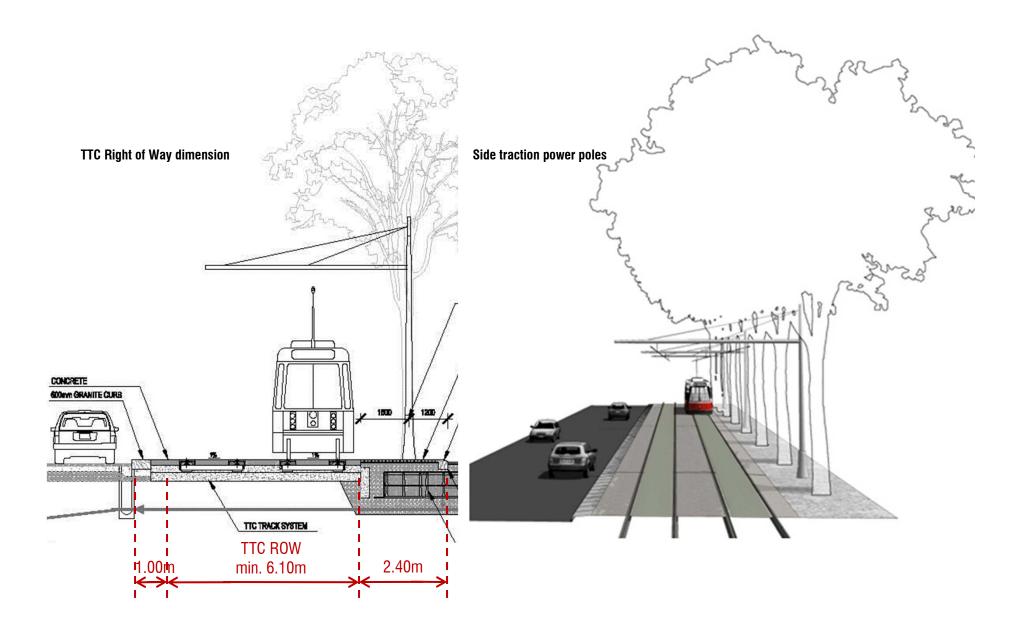
3. TTC RIGHT OF WAY & PLATFORMS



MINIMUM DIMENSIONS

TTC Right of Way

Changes: - No grass in TTC ROW





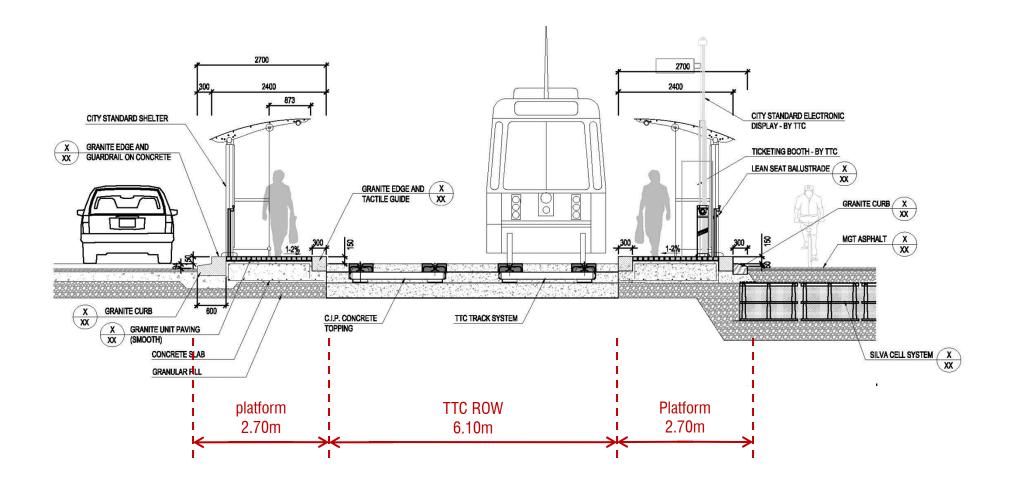


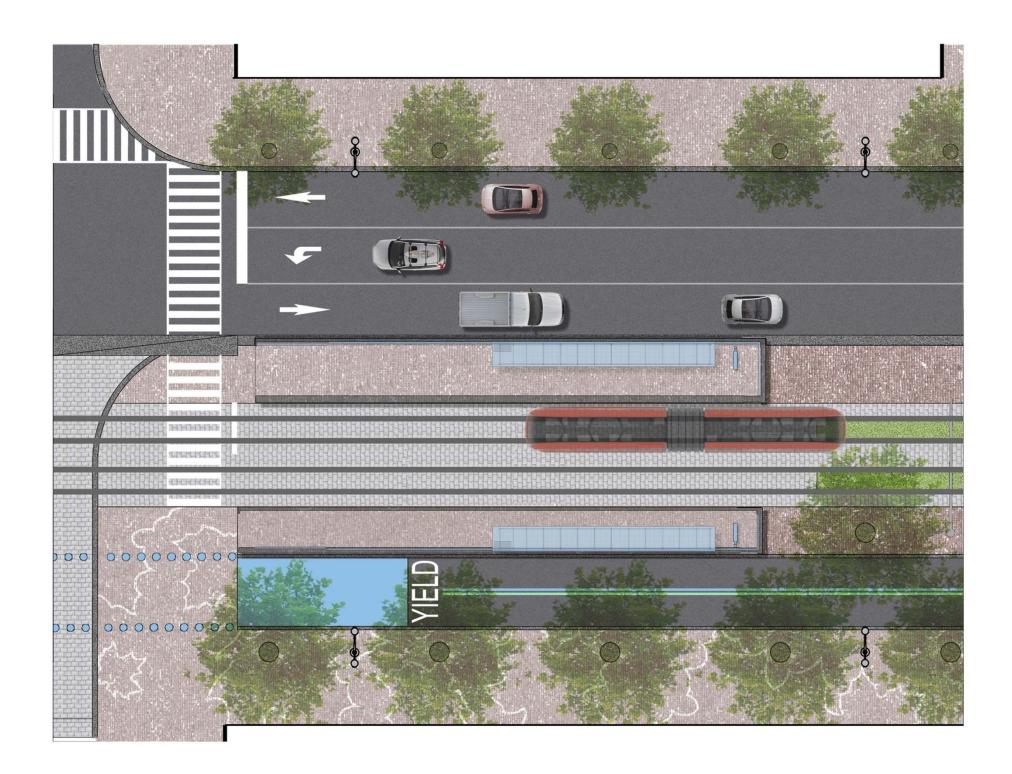
MINIMUM DIMENSIONS

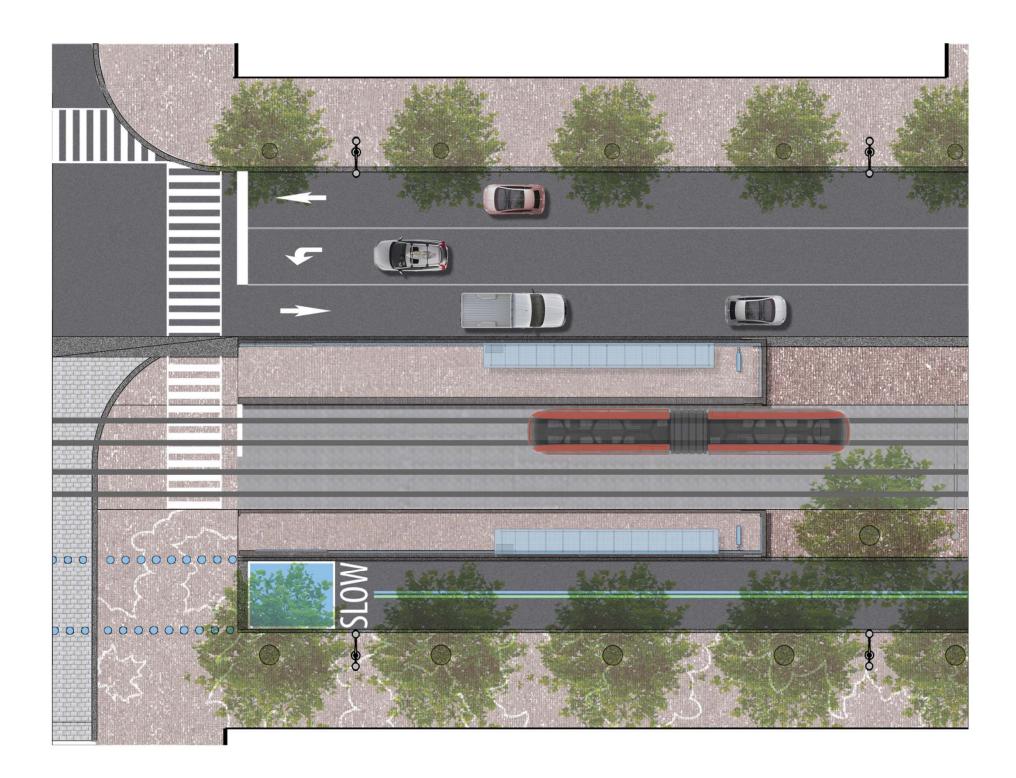
Platform design

Changes:

- 2.40m wide platform
- 15cm high platform

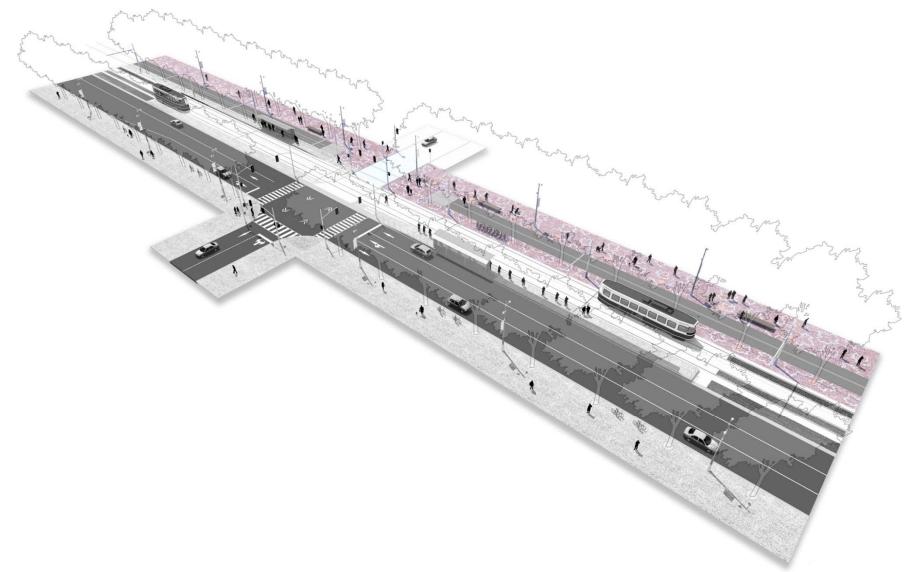






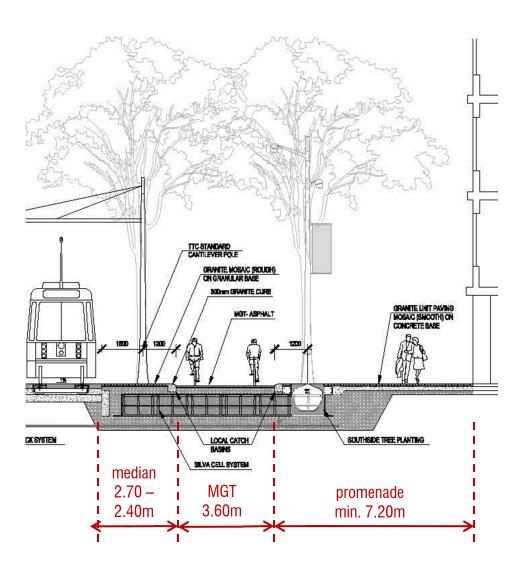


4. SOUTH SIDE PROMENADE & MGT



MINIMUM DIMENSIONS

South side promenade & MGT

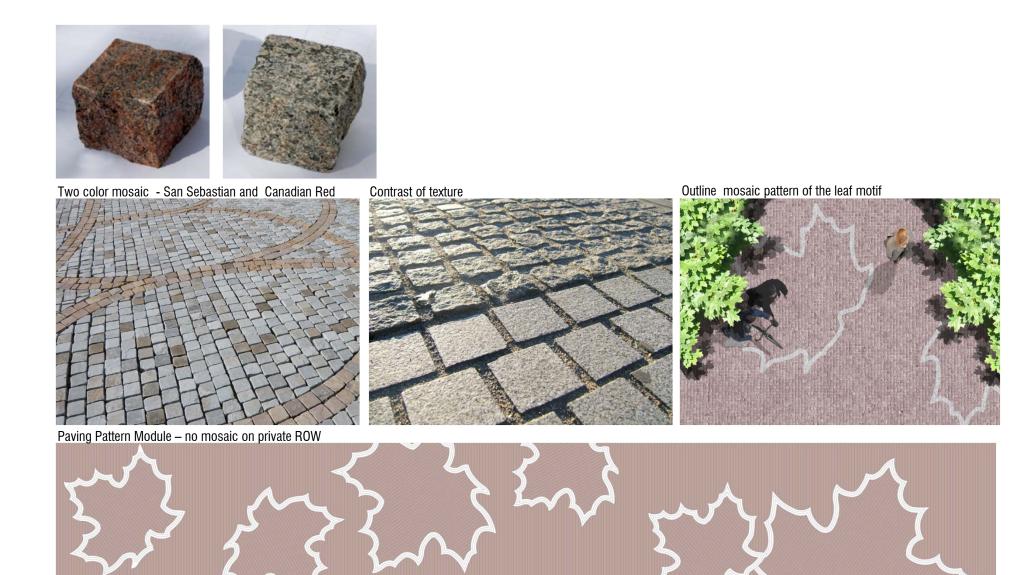


Changes:

- width of the median between MGT and TTC ROW
- detailing of the MGT
- tree ring width

MOSAIC

South side promenade

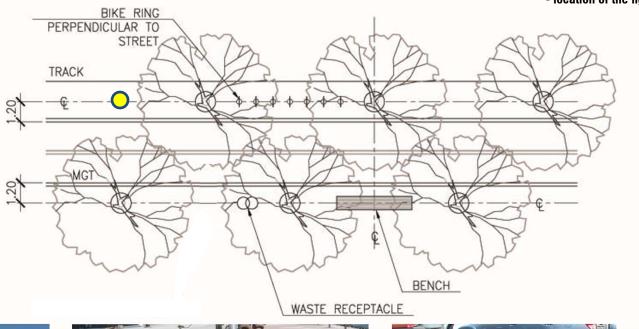




PLACING STRATEGY STREET FURNISHING

Promenade & MGT

Changes: - location of the light poles











Light pole

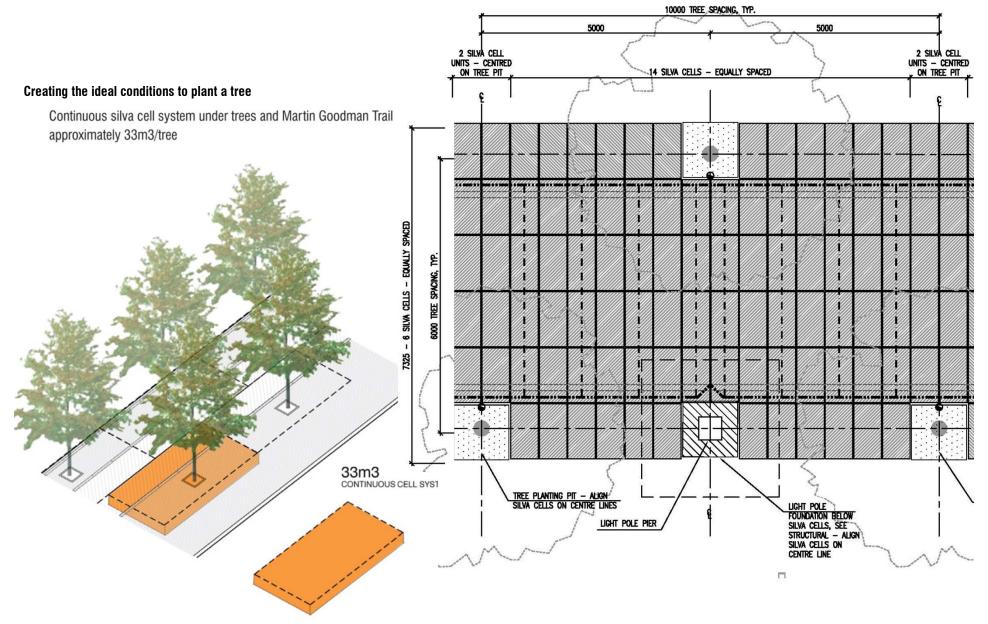
Bench

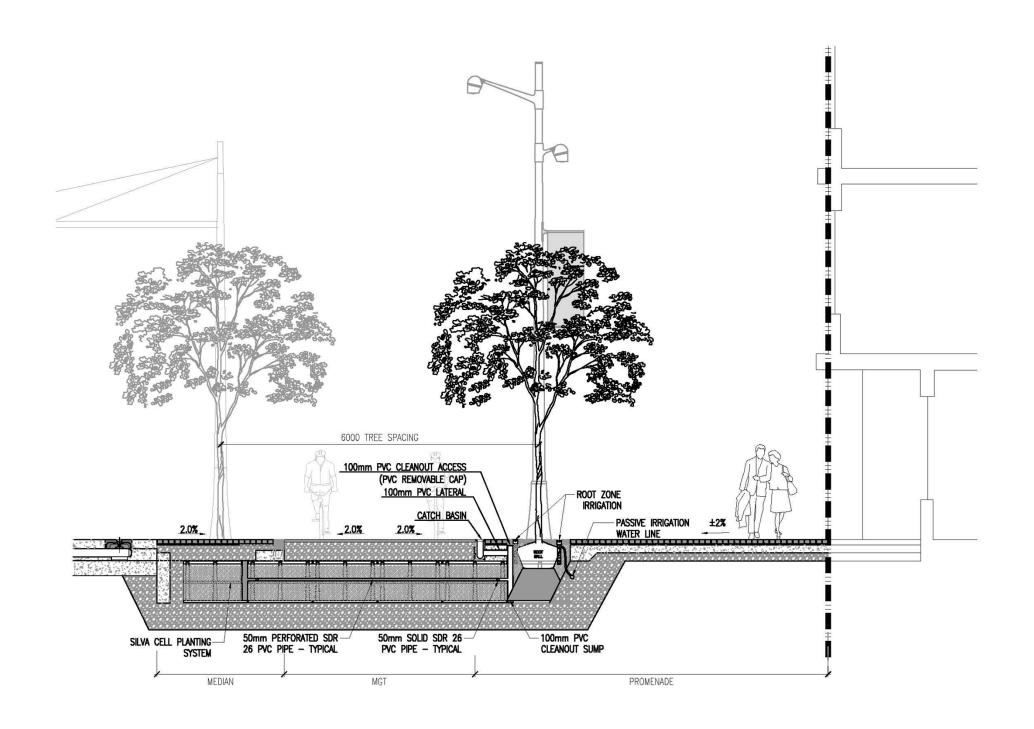
Waste receptacle

Bike ring

TREE PLANTING STRATEGY - CONDITIONS

Promenade & MGT





TREE PLANTING STRATEGY – CONDITIONS



2 layers of silva Cells over granular base



Top deck of Silva Cells



Electrical ducts and irrigation through Silva Cells



Tree pit opening in top deck of Silva Cells



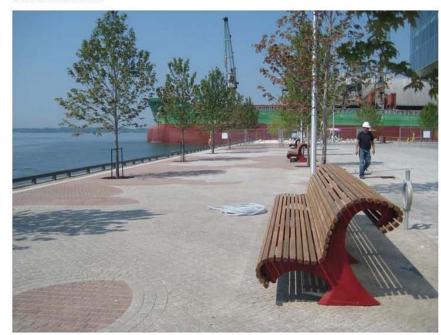
Formwork for tree pit over Silva Cells



Tree planting in Silva Cells



Granular over Silva Cells



Finished surface over Silva Cells

TREE PLANTING STRATEGY - SPECIES SELECTION

Promenade & MGT

1 tree species in different cultivars

Platanus occidentalis (Plane tree)













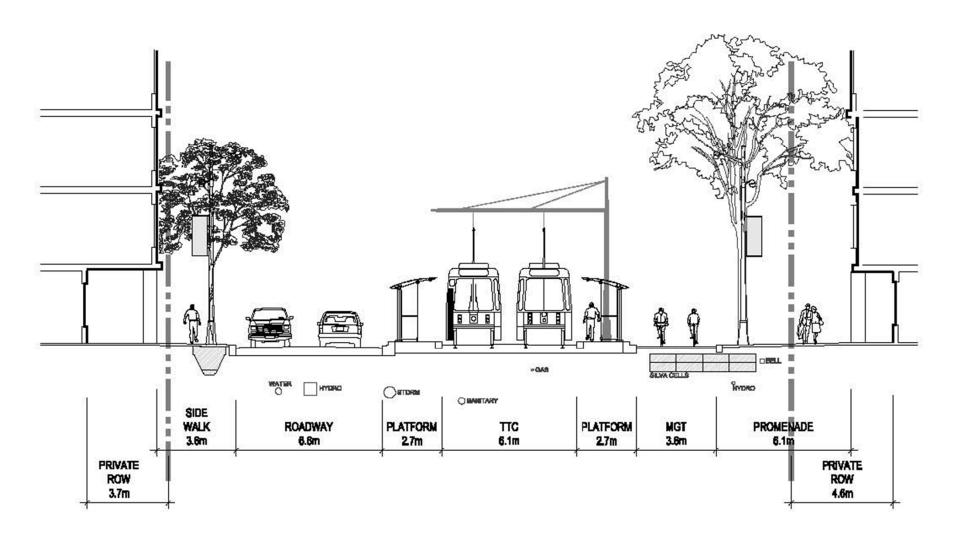




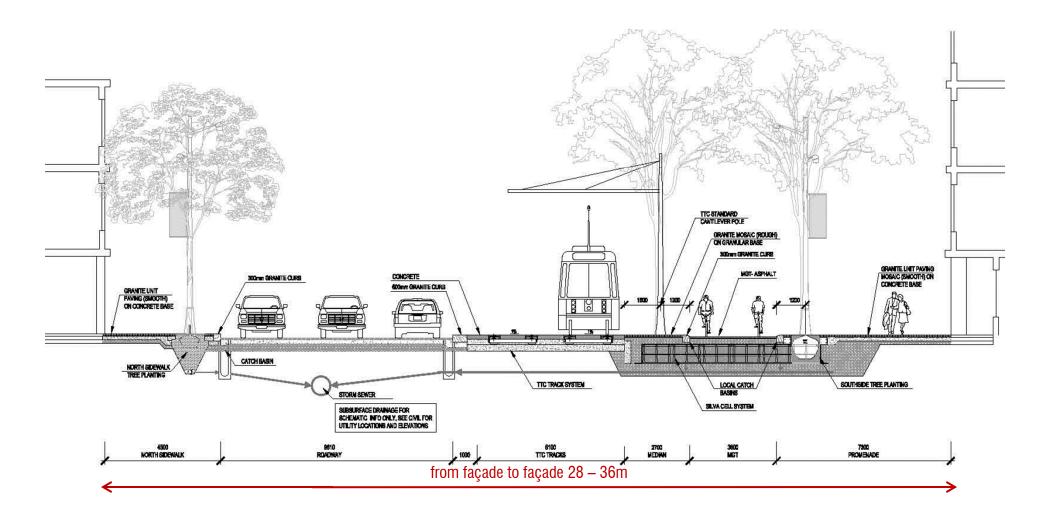




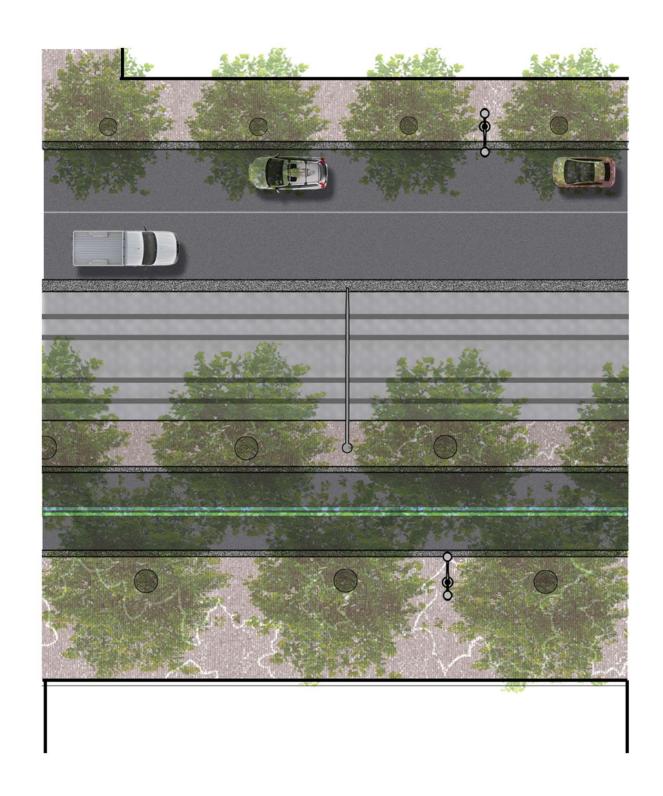
UTILITY IMPACTS



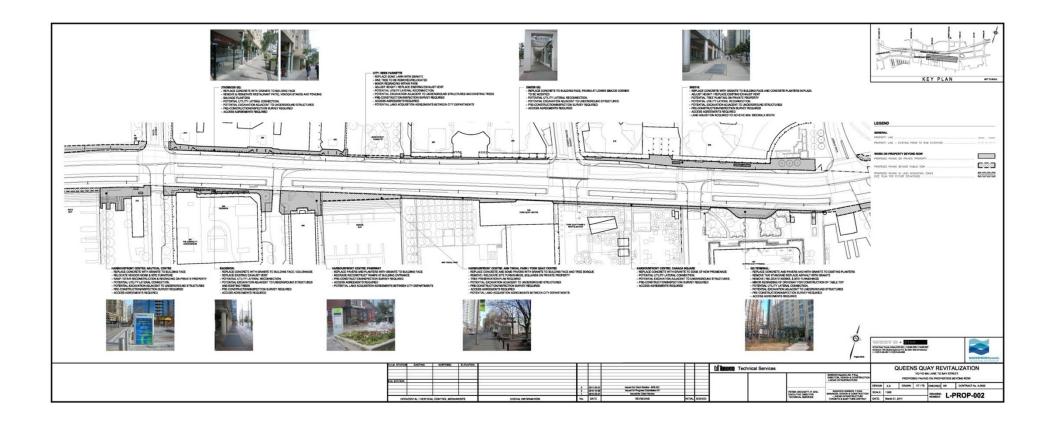
HORIZONTAL ALIGNMENT



TYPICAL MIDBLOCK



PROPERTY IMPACT



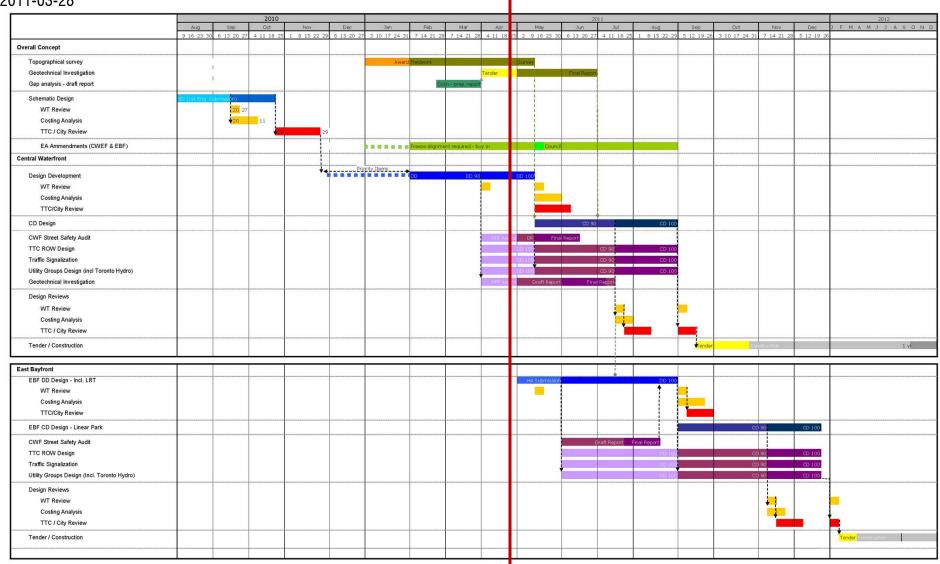
PROPERTY IMPACT

UEENS QUAY PROPERTY IMPACT INVEI ROPERTY	OWNER / CONTACT	PLAN OWNERSHIP /	YPE PARCEL I.D. 0 number / Zoning Ex Assessment Roll No. / Legal Parcel No / Lot Number /	ixiting MSL Agreements Surface	Underground Utilities Additional Investigations / Surveys Required	Ouration Mitigation	AGREEMENTS REQUIRED	COMMUNICATIO RECORD
Harboar Tarrace 401 Querra Quary West Toronto, ON MEN 142	Dand Walls Properly Manager 416 - 200 - 9305	Phrze Fedorio	C950078922	- Replace concrete parement with grants cobbie paring to building face - Re-grading on private process (odding pare of directing parents and parents parents of directing parents and of directing parents of directing pa	a respect of a respect of the respec		- Access agreements	
HTO Park West	Oby of Toronto	Pablic Park	PHV-21419-0014 (LT)	Relocate park structures & response instructures & response instruction; with grant cookle parkin; - Location of new surface electrical equipment - an to eak aged and reinstated - signs to be alwayed and reinstated - bodiests, light standards and reinstated - bodiests, light standards and reinstated - Monte regulation of conducts to be response. - Minor regulating within park - Ermance and or access disciption.	Fe-construction inspection / survey required Tree preservation plan		Access agreements Potential land acquisit agreements between Oils departments	on T
HTD Park West	Day of Toronto	PABLIC Park	PNR-21419-0012 (LT)	Replace concrete pair emert with grains cobble pointy Terrance and of access discuption	Re-construction impection / survey required		Access agreements Potential land acquisit greements between City departments	in ?
Pitar Stp Bridge	City of Toronto	New Public ROM		Replace concrete parement with grante cobble pering need design decembe produced to the control of the impact (but mild removals and salvager)	- Fre-construction impection/		Access agreements Potential land acquisit greements between City departments	
HTO Park East	Oby of Toronto	Pablic Park	PRIL-21419-0022 (LT)	- Relocate park structures & restore landricating with grant cookies paring — soo plar and crosswalk on Bullot and an area of the sound of reinstated — signs to be alwaged and reinstated — bolared, light standards and unpergrand conducts to be reinstated — Milmor regrading within park — Ermance and/or access dissiption	- Pre-construction inspection / survey required		Access agreements Potential land acquisit greements baveen Cty departments	

OVERALL PHASING STRATEGY

2011-03-28

TODAY



SCHEDULING

OVERVIEW

QQ schedule

- next formal submission to stakeholders for end of May, 2011 with Design Completion for end of July
- finalize approvals and permit acquisition late summer 2011
- construction start fall 2011
- TTC base Spring 2012

TTC Schedule

- Spadina Avenue King to Lakeshore September 2011
- QQ tracks from Spadina to the Portal Spring 2012
- Half Grand Union and Spadina intersection 2013

Utilities

- inform design process
- designing
- execution fall 2011

City of Toronto

• inform design process

MEETINGS

OVERVIEW

WT

- bi-weekly design meetings
- bi-weekly coordination meetings
- design review panel (June 8th 2011)

CITY

- Bus management
- Transportation Service coordination meetings
- Technical service
-

Utilities

Data Collection

Stakeholders

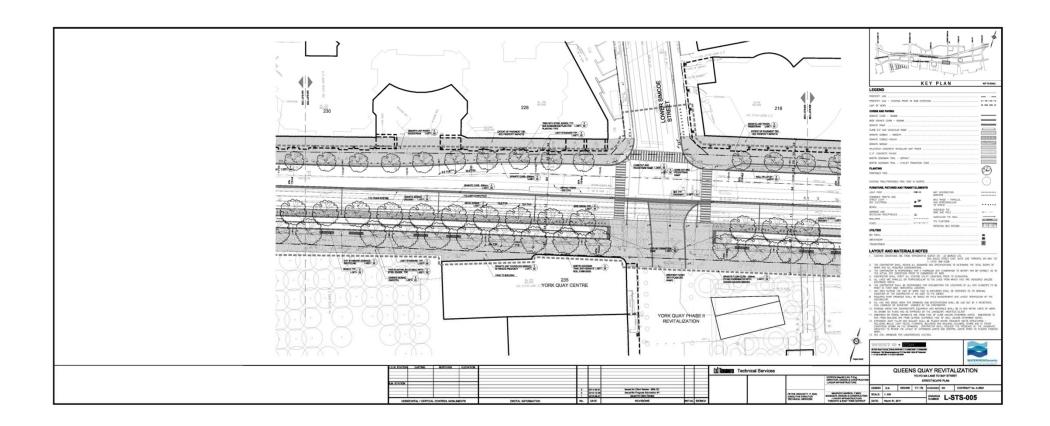
- TTC
- BIA
-

Coordination with other designers

- Pier 27
- York Quay
- Oxford property
- York Ramp
- ...

Next Steps

- Finishing 100% Detailed Design CWF
- Technical review of Detailed Design CWF
- Initiate Construction Design process CWF
- Finishing Schematic Design and Detailed Design EBF



Next Steps

 Queens Quay Working Group Meeting # 11 is scheduled for May 24, 2011

http://www.waterfrontoronto.ca/qqconsultation