

PORTLANDS FLOOD PROTECTION

Community Consultation

February 22, 2018



WATERFRONToronto

At Waterfront Toronto, we work with our partners at the City of Toronto, Province of Ontario and Government of Canada.



Chris Glaisek

SVP Planning & Design, Waterfront Toronto

David Kusturin

Chief Project Officer, Waterfront Toronto





APR 9-1979 EAST FROM ROYAL YORK.





THE HUMBER VALLEY

THE DON RIVER VALLEY

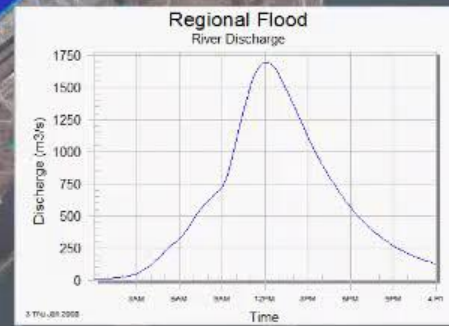
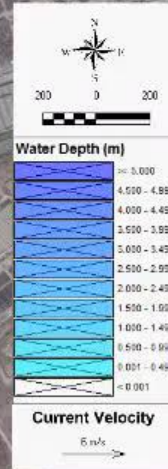
HIGH PARK AND THE HUMBER BAY ESTUARY

CENTRAL WATERFRONT

- TOcore Green Circle
- Ravine System Circle



EXISTING CONDITIONS





SI C4971/71 71064 R L2

1989: Bringing back the Don



2007: Lower Don Lands Master Plan design competition



PORT LANDS ESTUARY

Given the opportunity to create a new recreational space to the river that serves the environmental needs of the river and the lake and forms the centerpiece of a comprehensive vision for the Lower Don Lands, the MVVA Team approached the competition with two initial questions: "Where does the mouth of the Don River want to be and what form does it want to take?"

The MVVA Team approached the Lower Don Lands as a series of questions and from a very simple observation about the two types of parks that are abundant in Toronto: the traditional square lot and the irregular lot. The traditional square lot is a result of the grid, and the irregular lot is a result of the river. Given these two distinct typologies, and the TWC's objective in undertaking the naturalization project, it became apparent that the new waterfront park and the new mouth of the Don should be taking their cues from their morphology, rather than the existing urban context as represented by the existing channels.

Our proposal combines the program of naturalized marsh, foreshore, and recreational park into a single and complex center park, "figuring the mouth of the river at this way has the broadest possible effect on the Lower Don Lands, creating a mix of waterfront property and a sustainable "urban estuary" of great richness and complex mixing on multiple levels: spatial, ecological, functional, economic, and social. In shifting pre-established boundaries, we have opened up new opportunities and new relationships between the river and land. The relocation of the mouth of the river results in the presence of the river in its own right.

Our vision for the Lower Don Lands under the TWC's major urban initiatives - the naturalization project, multiple transportation and infrastructure initiatives, and the development of new residential neighbourhoods - into a single framework for a sustainable area.

MVVA TEAM

Team Leader

Michael Van Valkenburgh Associates, Inc.
Landscape Architects
1616 York St + Cambridge, MA

Urban Design

Greening Consultants, Inc.
Toronto, ON

Microecologist

Great Eastern Ecology
New York, NY

Consulting Landscape Architect

Philippe Farouk Smalzerberg
Toronto, ON

Climate Engineer

Terracore
New York, NY

Architect

Barkish Architects
Toronto, ON

Bridge Engineer

WJ Engineering
Paris, FR

Water Hydrologist

Limno Tech, Inc.
Ann Arbor, MI

Traffic and Transportation Engineer

ARC
Toronto, ON

Regional Ecologist

Applied Ecological Services
Burlington, WI

Civil Engineer

Tor
Windsor, ON

A decade of planning

2006

Don Mouth Naturalization and Port Lands Flood Protection Project Environmental Assessment (DMNP EA) began

2011

Port Lands Acceleration Initiative

2015

DMNP EA and Lower Don Lands EA approved

2017

\$1.25 billion funding for Port Lands Flood Protection

Port Lands Framework Plan and Villiers Island Precinct Plan approved

2007

International design competition

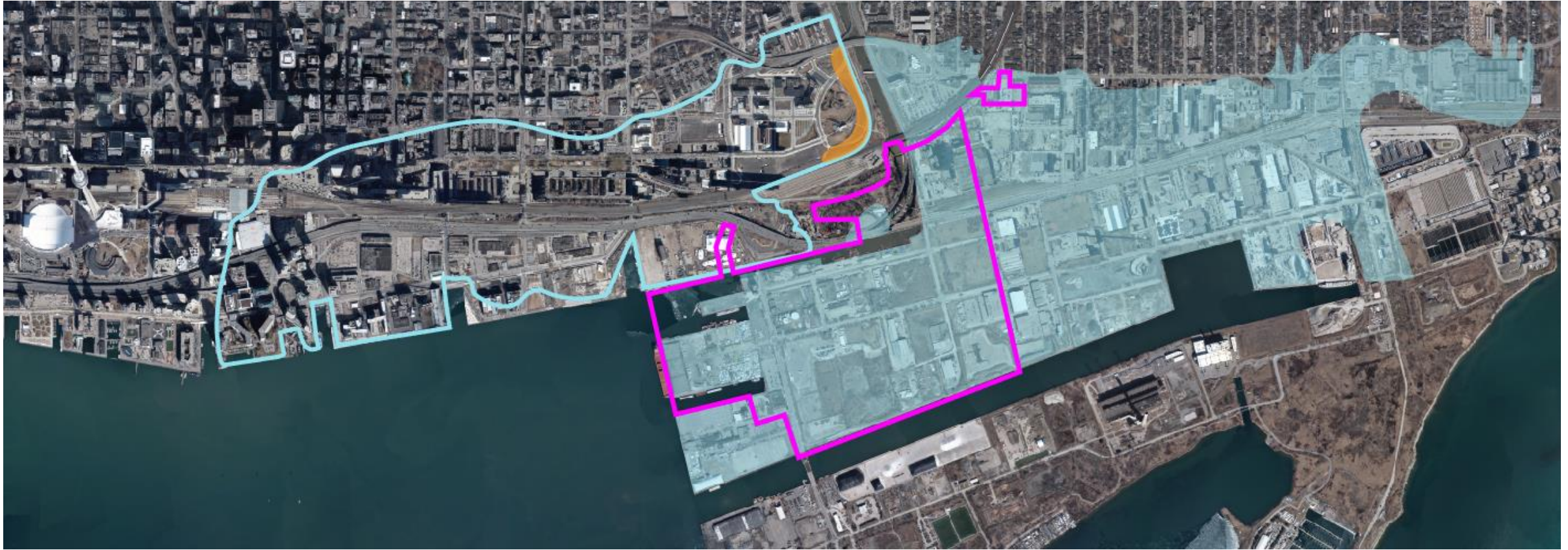
2012

Port Lands Framework Plan and Villiers Island Precinct Plan began

2016

Due Diligence report for Port Lands Flood Protection completed

The Port Lands Flood Protection Project



Flood Plain



Flood Protected



Flood Protection
Landform

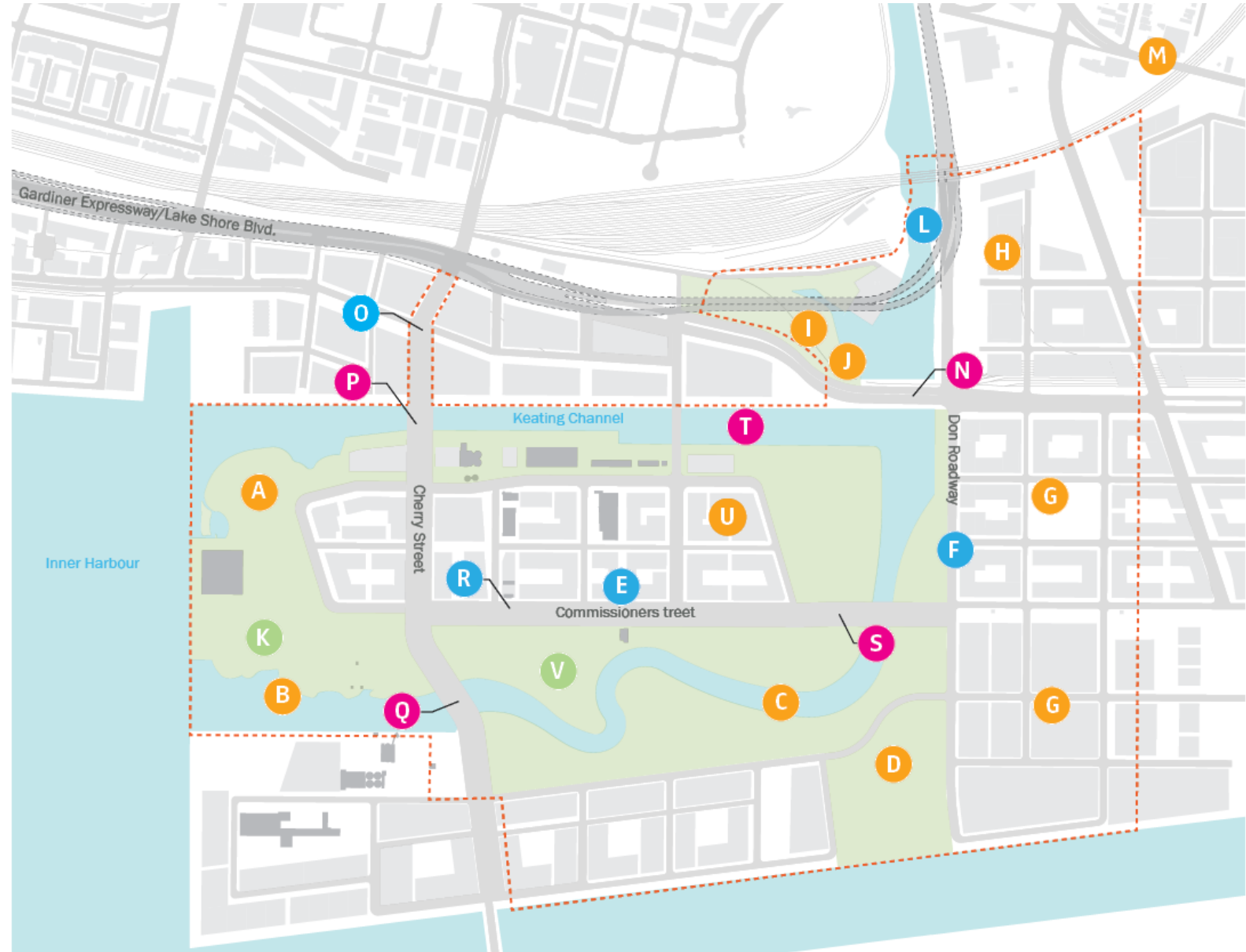
PLFPEI



What are we building?

- A** Cherry Street Stormwater and Lakefilling
- B** Polson Slip Naturalization
- C** Flood Protection: River Valley
- D** Don Greenway (Spillway & Wetland)
- E** Site Wide Municipal Infrastructure
- F** Don Roadway
- G** Don Roadway Valley Wall Feature
- H** East Harbour Flood Protection Land Form
- I** Sediment and Debris Management Area
- J** Flow Control Weirs
- K** Promontory Park
- L** Hydro One Integration
- M** Eastern Avenue Flood Protection
- N** Lake Shore Road and Rail Bridge Modifications
- O** Cherry Street Re-alignment (incl. BRT)
- P** Cherry Street Bridge North (incl. BRT)
- Q** Cherry Street Bridge South (vehicular only)
- R** Commissioners Street
- S** Commissioners Street Bridge (vehicular only)
- T** Keating Channel Modifications
- U** Villiers Island Grading
- V** River Park

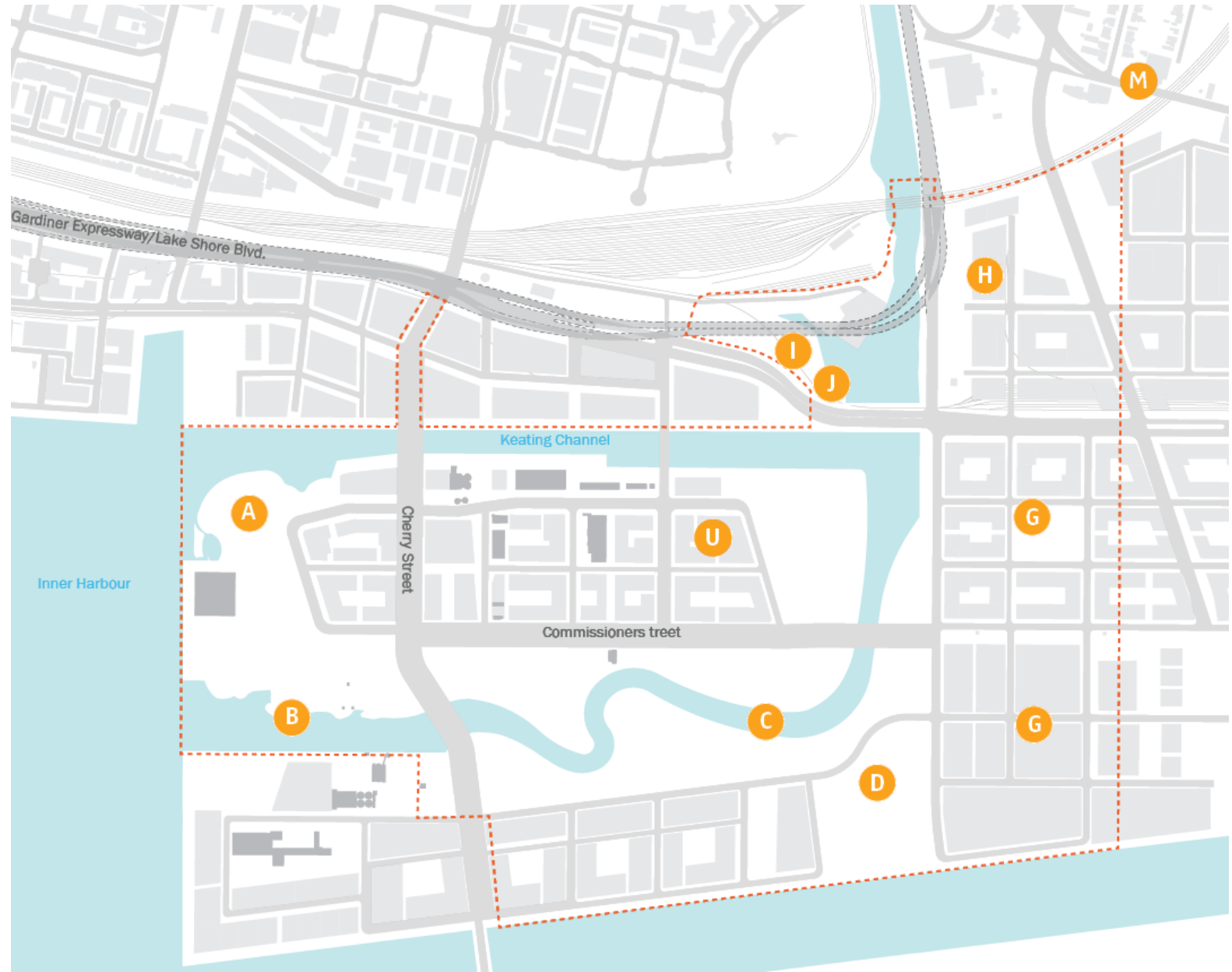
-  Port Lands Flood Protection and Enabling Infrastructure Boundary
-  Parks
-  Roads and Municipal Infrastructure
-  Bridges & Structures
-  Earthworks/Flood Protection



Earthworks/Flood Protection

- A** Cherry Street Stormwater and Lakefilling
- B** Polson Slip Naturalization
- C** Flood Protection: River Valley
- D** Don Greenway (Spillway & Wetland)
- E** Site Wide Municipal Infrastructure
- F** Don Roadway
- G** Don Roadway Valley Wall Feature
- H** East Harbour Flood Protection Land Form
- I** Sediment and Debris Management Area
- J** Flow Control Weirs
- K** Promontory Park
- L** Hydro One Integration
- M** Eastern Avenue Flood Protection
- N** Lake Shore Road and Rail Bridge Modifications
- O** Cherry Street Re-alignment (incl. BRT)
- P** Cherry Street Bridge North (incl. BRT)
- Q** Cherry Street Bridge South (vehicular only)
- R** Commissioners Street
- S** Commissioners Street Bridge (vehicular only)
- T** Keating Channel Modifications
- U** Villiers Island Grading
- V** River Park

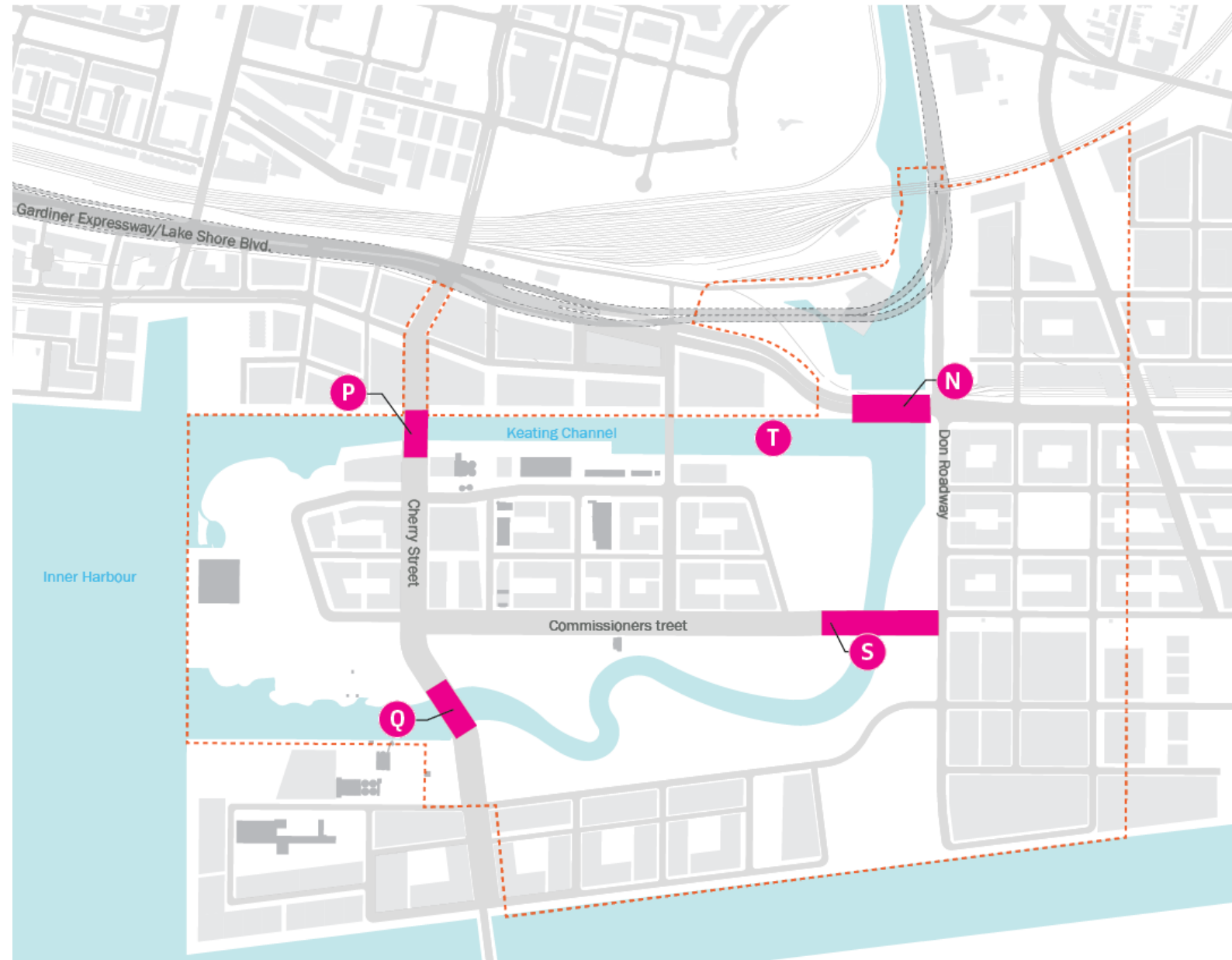
-  Port Lands Flood Protection and Enabling Infrastructure Boundary
-  Parks
-  Roads and Municipal Infrastructure
-  Bridges & Structures
-  Earthworks/Flood Protection



Bridges and Structures

- A Cherry Street Stormwater and Lakefilling
- B Polson Slip Naturalization
- C Flood Protection: River Valley
- D Don Greenway (Spillway & Wetland)
- E Site Wide Municipal Infrastructure
- F Don Roadway
- G Don Roadway Valley Wall Feature
- H East Harbour Flood Protection Land Form
- I Sediment and Debris Management Area
- J Flow Control Weirs
- K Promontory Park
- L Hydro One Integration
- M Eastern Avenue Flood Protection
- N Lake Shore Road and Rail Bridge Modifications
- O Cherry Street Re-alignment (incl. BRT)
- P Cherry Street Bridge North (incl. BRT)
- Q Cherry Street Bridge South (vehicular only)
- R Commissioners Street
- S Commissioners Street Bridge (vehicular only)
- T Keating Channel Modifications
- U Villiers Island Grading
- V River Park

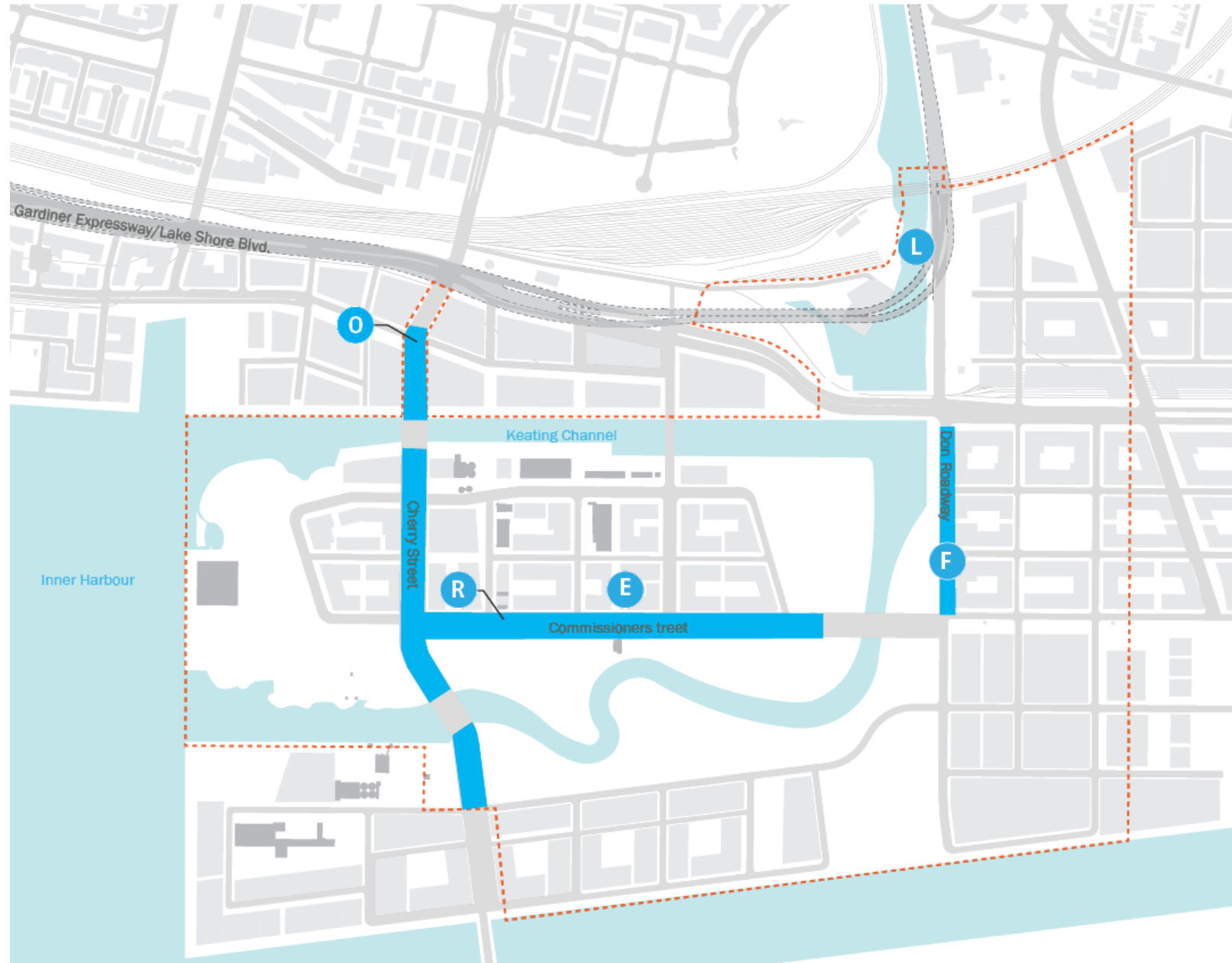
- Port Lands Flood Protection and Enabling Infrastructure Boundary
- Parks
- Roads and Municipal Infrastructure
- Bridges & Structures
- Earthworks/Flood Protection



Roads and Municipal Services

- A** Cherry Street Stormwater and Lakefilling
- B** Polson Slip Naturalization
- C** Flood Protection: River Valley
- D** Don Greenway (Spillway & Wetland)
- E** Site Wide Municipal Infrastructure
- F** Don Roadway
- G** Don Roadway Valley Wall Feature
- H** East Harbour Flood Protection Land Form
- I** Sediment and Debris Management Area
- J** Flow Control Weirs
- K** Promontory Park
- L** Hydro One Integration
- M** Eastern Avenue Flood Protection
- N** Lake Shore Road and Rail Bridge Modifications
- O** Cherry Street Re-alignment (incl. BRT)
- P** Cherry Street Bridge North (incl. BRT)
- Q** Cherry Street Bridge South (vehicular only)
- R** Commissioners Street
- S** Commissioners Street Bridge (vehicular only)
- T** Keating Channel Modifications
- U** Villiers Island Grading
- V** River Park

-  Port Lands Flood Protection and Enabling Infrastructure Boundary
-  Parks
-  Roads and Municipal Infrastructure
-  Bridges & Structures
-  Earthworks/Flood Protection



Parks

- A** Cherry Street Stormwater and Lakefilling
- B** Polson Slip Naturalization
- C** Flood Protection: River Valley
- D** Don Greenway (Spillway & Wetland)
- E** Site Wide Municipal Infrastructure
- F** Don Roadway
- G** Don Roadway Valley Wall Feature
- H** East Harbour Flood Protection Land Form
- I** Sediment and Debris Management Area
- J** Flow Control Weirs
- K** Promontory Park
- L** Hydro One Integration
- M** Eastern Avenue Flood Protection
- N** Lake Shore Road and Rail Bridge Modifications
- O** Cherry Street Re-alignment (incl. BRT)
- P** Cherry Street Bridge North (incl. BRT)
- Q** Cherry Street Bridge South (vehicular only)
- R** Commissioners Street
- S** Commissioners Street Bridge (vehicular only)
- T** Keating Channel Modifications
- U** Villiers Island Grading
- V** River Park

-  Port Lands Flood Protection and Enabling Infrastructure Boundary
-  Parks
-  Roads and Municipal Infrastructure
-  Bridges & Structures
-  Earthworks/Flood Protection



Our due diligence exercise

Purpose

- What will we build?
- How will we build it?
- How long will it take?
- How much will it cost?
- How will we tackle unique challenges?

Our due diligence exercise

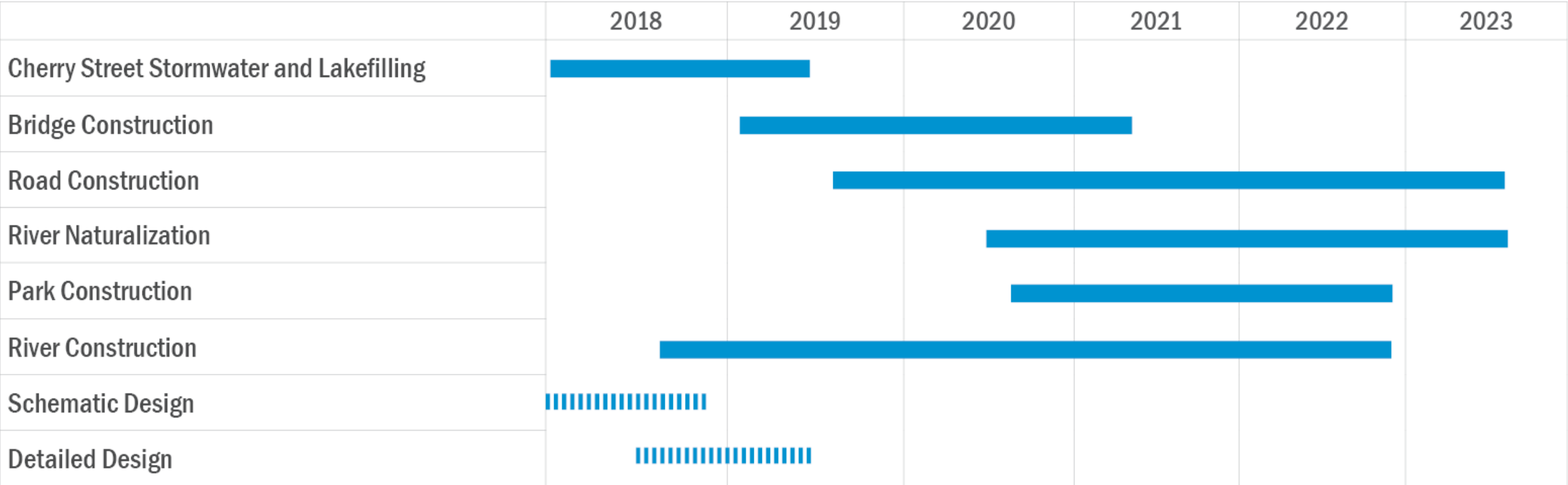
Outcomes

- What will we build?
 - ✓ Defined scope
- How will we build it?
 - ✓ Refined design and process
- How long will it take?
 - ✓ Seven years
- How much will it cost?
 - ✓ \$1.25 billion
- How will we tackle unique challenges?
 - ✓ Community-Based Risk Assessment



Next Steps

Draft Construction Schedule





Public Consultation – What we’ve heard so far



Water

- Vibrancy/animation, especially along the water’s edge
- Water activities
- Ensure many access points/connections for people across river and channels
- Focus on sustainability / water as a resource



Nature

- Maximize naturalization and ensure connections for wildlife



Special Qualities

- Create views of the Inner Harbour and city
- Consider a mix of hardscaping (e.g. public squares, plazas) and natural green space
- Preserve local heritage and culture through adaptive reuse, art



Programming

- Create recreational opportunities

Public Consultation – Early results “What Makes a Great Park” Survey

What are people missing in park experiences?

- Engage in environmental stewardship (tree planting, gardening)
- Meet my neighbours / socialize in my community

What influences you to visit a new park?

- Ease of getting there
- To experience a new place
- Special features or amenities

Other experiences or programming

- Farmer’s markets
- Nature or wildlife walks
- Music
- Places to run or walk
- flexible, open areas

Herb Sweeney, Associate Principal, MVVA

Matthew Urbanski, Principal, MVVA