

Ashbridges Bay Landform

Undertaking a Class EA in Evolving Urban Landscapes

Presented by: Lisa Turnbull, Sr Manager
Project Management Office

October 17, 2018

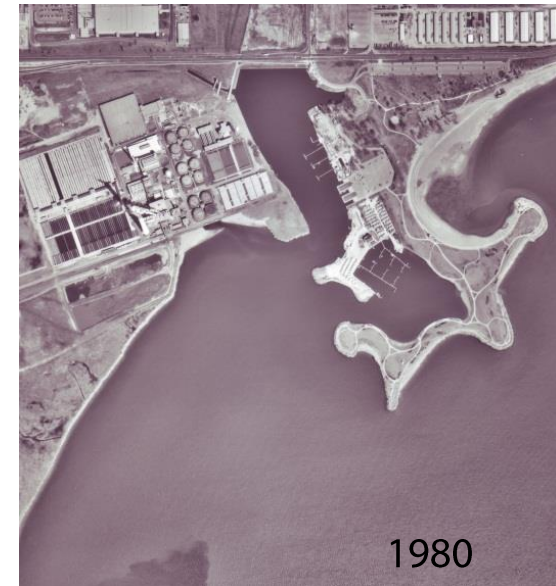
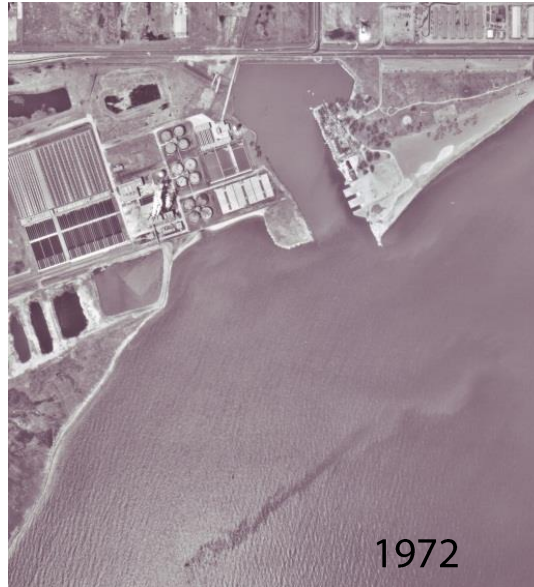
Presentation Outline

- Problem Identification
- History of the Class EA Process
- 2015 Conservation Ontario Class EA
- Detailed Design of the Ashbridges Bay Landform
- Summary

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Ashbridges Bay Problem Identification

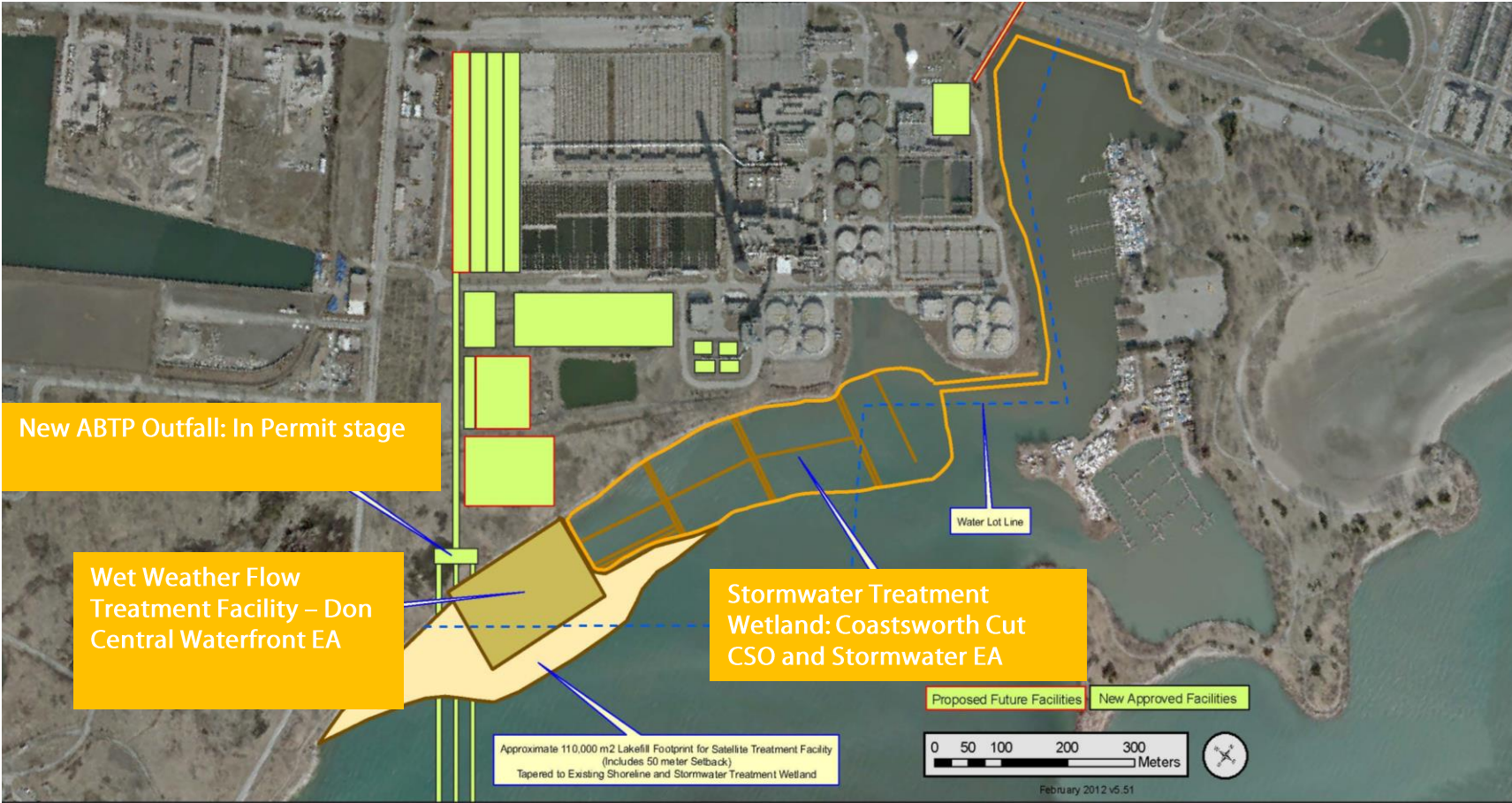
- Mid-1970's: Ashbridge's Bay Park constructed
- Early 1980's: Start of dredging in Coatsworth Cut
- 1990's: Reports indicate ~10,000.00 m³ of sand per year bypass the Ashbridge's Bay Park headland
- Annual maintenance dredging is needed to ensure safe navigation.



History of the Class EA Process

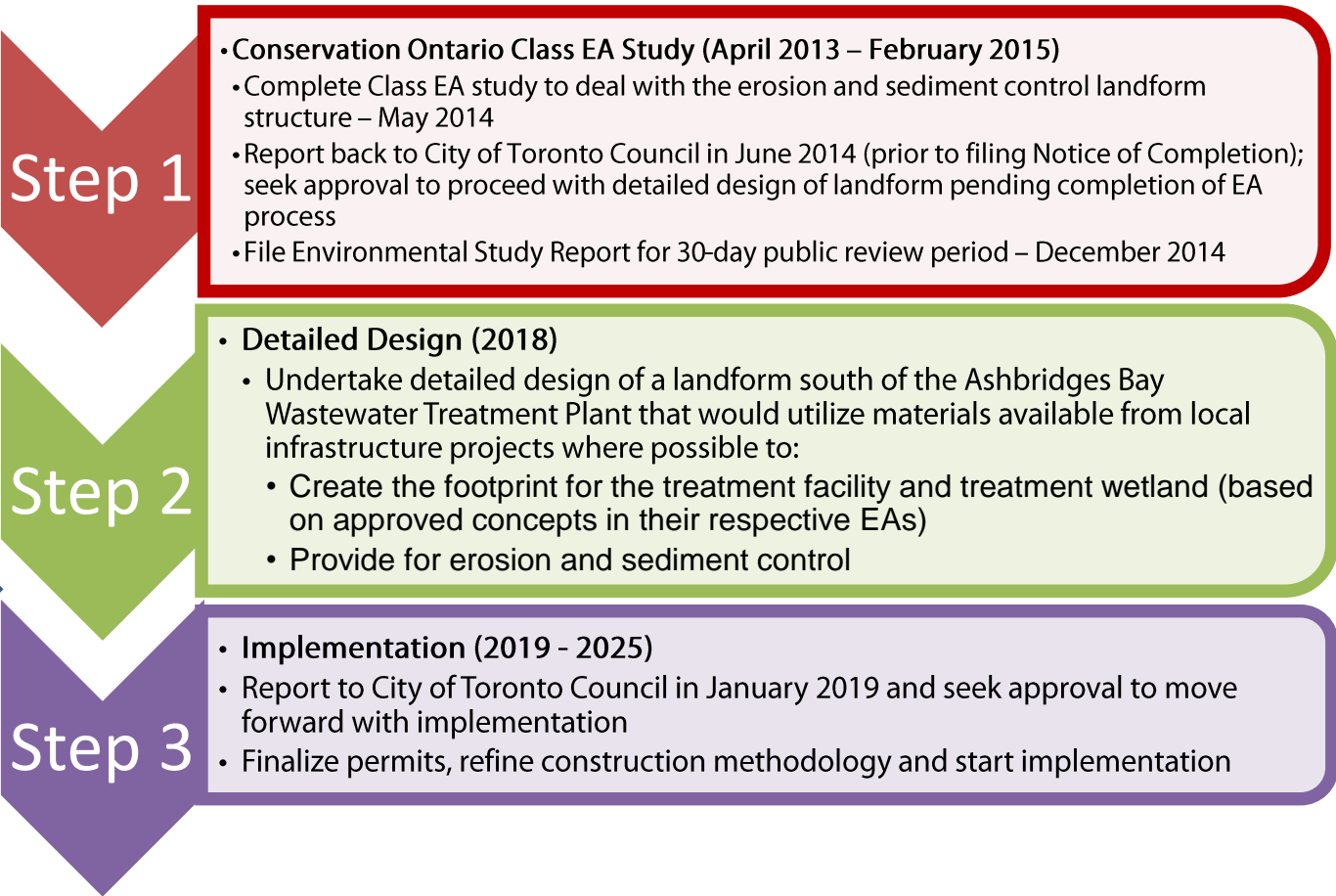
- 2002: TRCA initiates a Conservation Ontario Class EA to address sediment and erosion issues in Ashbridges Bay/Coatsworth Cut.
- 2004: Class EA suspended while the City of Toronto and Waterfront Toronto projects and planning initiatives involving Ashbridges Bay/Coatsworth Cut are underway.
- 2008: Planning initiatives involving Ashbridges Bay/Coatsworth Cut are complete: City of Toronto completes Coatsworth Cut CSO Class EA and the Ashbridges Bay (formerly Main) Treatment Plant Individual EA. Waterfront Toronto completes Lake Ontario Park Master Plan and proceeds to planning Phase I of the Lake Ontario Park.
- 2009: City of Toronto, Waterfront Toronto and TRCA form a partnership to implement Phase I of the Lake Ontario Park. TRCA recommences Class EA.
- 2010: Class EA suspended due to the high cost of the proposed relocation of the Coatsworth Cut boat clubs.
- 2012: City of Toronto's Don River and Central Waterfront Class EA is completed. A satellite treatment plant (high rate treatment facility) in the waterlot south of ABTP is approved as part of the EA.
- 2013: With the relocation of boat clubs no longer being considered, the Class EA was initiated and subsequently completed in 2015.

City of Toronto: Previously Approved Infrastructure



Ashbridges Bay Landform Project

Process and Timelines



We are here →

Conservation Ontario Class EA 2015 – Ashbridges Bay Erosion and Sediment Control Project: Objective

To identify a preferred solution that will mitigate the risk to navigation due to sediment erosion and deposition at the harbour entrance of Ashbridges Bay and Coatsworth Cut while considering the various approved facilities , planning initiatives and current uses in the study area.



Ashbridges Bay Erosion and Sediment Control Project: Class EA Process

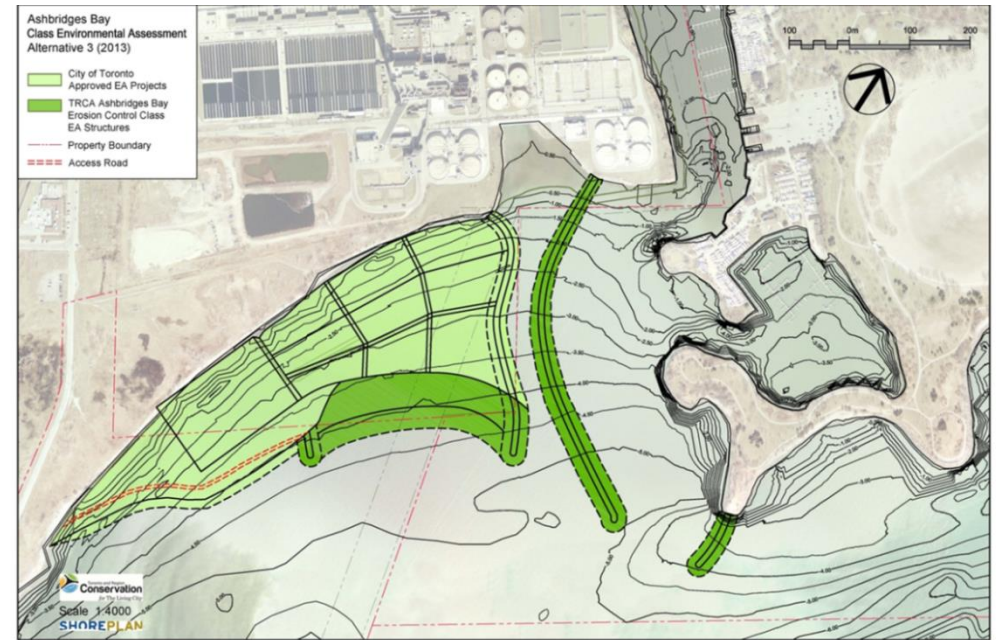
- EA formally initiated in April 2013 and filed in December 2014
- Steering Committee formed with representation from TRCA, Waterfront Toronto and City of Toronto - Toronto Water, PF&R, Waterfront Secretariat
- Three Community Liaison Committee (CLC) meetings held
 - Majority supported the preferred alternative - concerns raised came from a small number of the boat club members and focused on impacts to their current use of the area
- Two Public Information Centers held
 - Low attendance/interest beyond the boat club members (primarily CLC members)

Ashbridges Bay Erosion and Sediment Control Project: Preferred Alternative

Selected as the preferred alternative as it provided the:

- Least impact to water quality in the recreational areas with a potential positive impact on E.coli levels in the recreational boating areas;
- Best integration of current Ashbridges Bay Wastewater Treatment Plant operations (sea wall gates) and flexibility with future approved City of Toronto infrastructure
- Decades of safe navigation without on-going maintenance (dredging).

*Dark green depicts the components of the Class EA, light green are other planning initiatives.

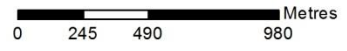


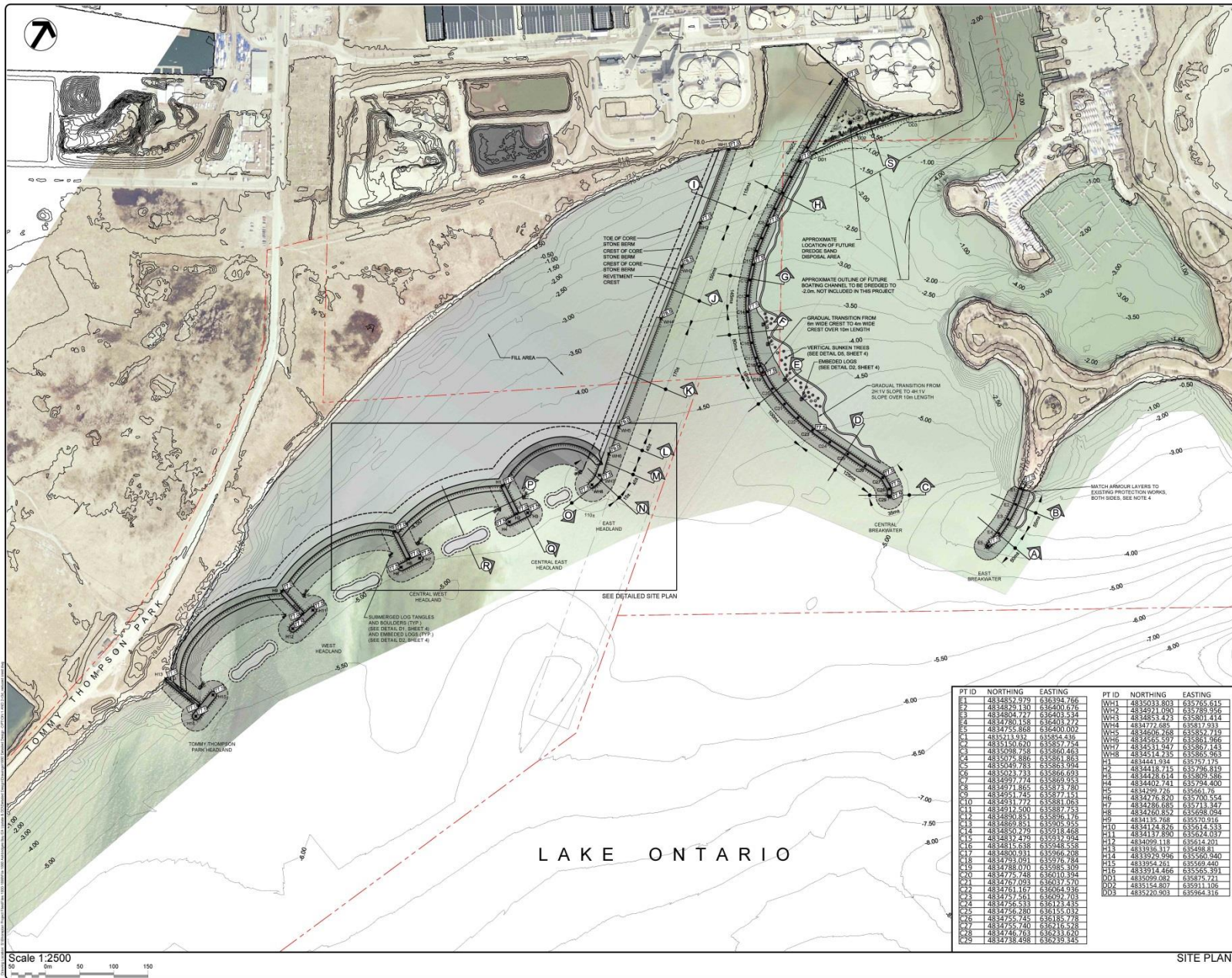


Ashbridges Bay

*Erosion and
 Sediment
 Control Project*

City of Toronto Approved
 Infrastructure and
 Proposed Erosion
 and Sediment Control
 Structures





- GENERAL NOTES**
- All dimensions in millimeters unless indicated otherwise.
 - All elevations in meters, G.S.C. Soundings below chart datum (74.2m I.G.L.D., 1985).
 - Grading of backfill material to be designed by others.
 - Remove existing armour stone prior to the placement of core material and re-use suitable armour stone in the new works.

3	2016/09	Issued for Approval	M.S.
2	2016/02/22	Issued for Discussion, 90 %	M.S.
1	2015/12/15	Issued for Comments Only, 60 %	M.S.

SHOREPLAN
 Shoreplan Engineering Limited
 20 Holly Street, Suite 202
 Toronto, Ontario
 M4B 3K1 Tel: (416) 487-4756



Project Title
ASHRIDES BAY LANDFORM PROJECT, TORONTO AND REGION CONSERVATION AUTHORITY and CITY OF TORONTO

Drawing Title
SITE PLAN

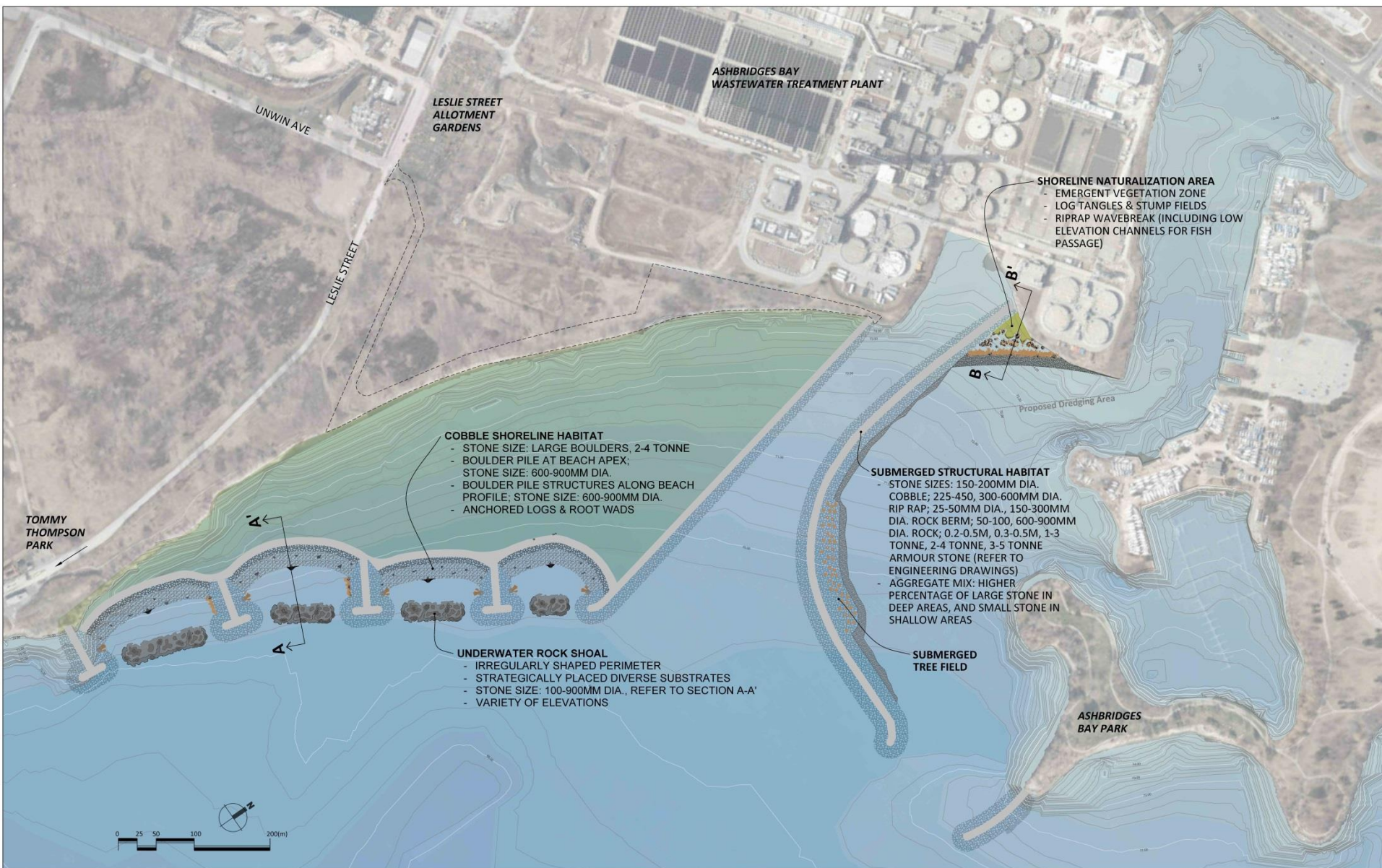
Drawn By: S.M.
 Checked By: M.S.
 Date of Issue:
 Scale:
AS SHOWN

Project No.: 15-1880
 Sheet No.: 1 of 4

PT ID	NORTHING	EASTING	PT ID	NORTHING	EASTING
W1	4834829.130	636400.276	WH1	4834833.803	635765.615
W2	4834804.727	636403.334	WH2	4834891.190	635789.956
W3	4834790.136	636404.777	WH3	4834853.423	635801.414
E1	4834755.868	636400.002	WH4	4834772.688	635817.931
E2	4835113.333	635874.416	WH5	4834806.468	635827.419
E3	4835058.738	635860.463	WH6	4834565.597	635861.366
E4	4835074.886	635861.463	WH7	4834511.947	635861.143
E5	4835150.670	635857.714	WH8	4834514.735	635865.963
E6	4835068.738	635860.463	WH9	4834441.931	635771.175
E7	4835074.886	635861.463	WH10	4834418.715	635726.819
E8	4835049.783	635863.394	WH11	4834428.614	635800.386
E9	4835074.886	635861.463	WH12	4834400.741	635794.400
E10	4834957.772	635860.933	WH13	4834399.776	635663.76
E11	4834957.772	635860.933	WH14	4834376.803	635700.554
E12	4834957.772	635860.933	WH15	4834366.635	635713.347
E13	4834957.772	635860.933	WH16	4834366.635	635708.024
E14	4834957.772	635860.933	WH17	4834366.635	635708.024
E15	4834957.772	635860.933	WH18	4834366.635	635708.024
E16	4834957.772	635860.933	WH19	4834366.635	635708.024
E17	4834957.772	635860.933	WH20	4834366.635	635708.024
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E20	4834775.748	636010.394	WH23	4834366.635	635708.024
E21	4834767.023	636014.700	WH24	4834366.635	635708.024
E22	4834761.167	636004.936	WH25	4834366.635	635708.024
E23	4834757.451	636002.703	WH26	4834366.635	635708.024
E24	4834755.533	636193.435	WH27	4834366.635	635708.024
E25	4834756.280	636155.032	WH28	4834366.635	635708.024
E26	4834755.745	636165.778	WH29	4834366.635	635708.024
E27	4834755.740	636216.928	WH30	4834366.635	635708.024
E28	4834746.713	636233.630	WH31	4834366.635	635708.024
E29	4834738.498	636239.345	WH32	4834366.635	635708.024

LAKE ONTARIO

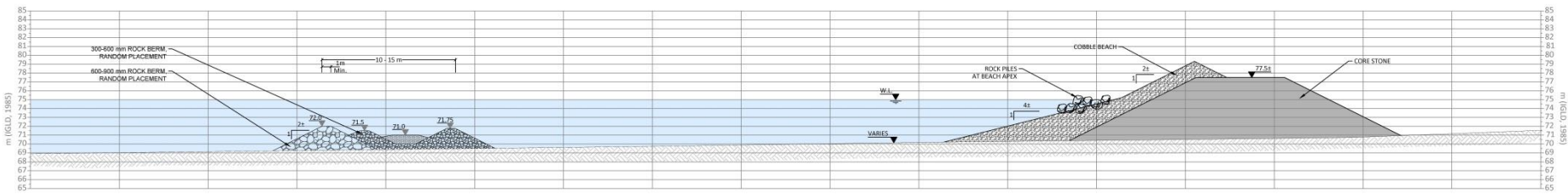
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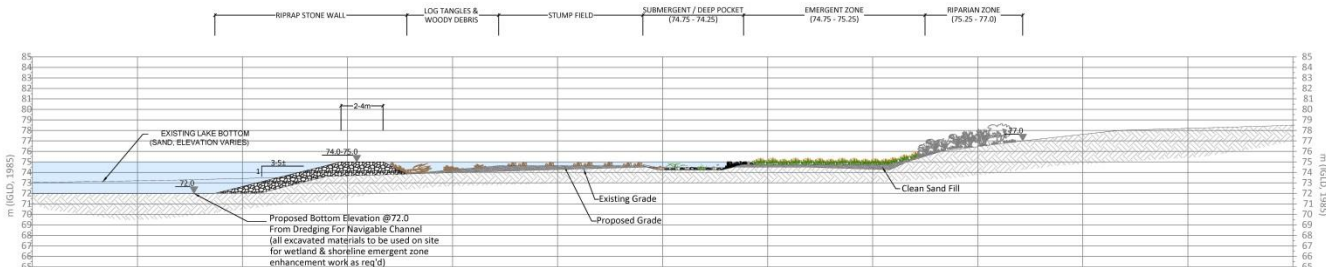
Ashbridges Bay Landform Project - Habitat Enhancement Plan

May 2018





SECTION A - A'
Habitat Island & Cobble Beach

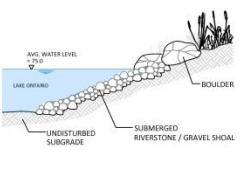


SECTION B - B'
Naturalized Shoreline Typical

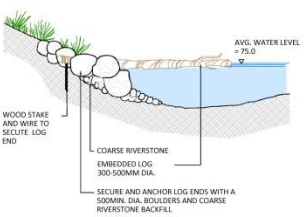


D4 SUBMERGED LOG TANGLES & STONE PILES
N.T.S.

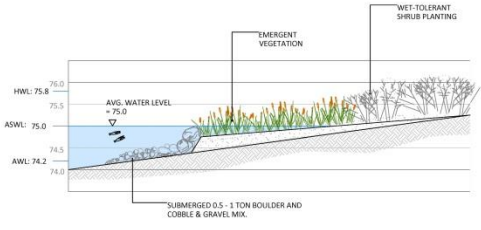
RIVERSTONE AND GRAVEL SHOAL ALONG SHORELINE TO BE MIX OF 50-150mm DIA. RIVERSTONE AND 20mm DIA. CLEAR GRAVEL.
INSTALL COARSER, LARGER STONE AT WATER'S EDGE, GRADUALLY TAPERING TO FINER GRADED MATERIAL ABOVE AWL.
PLACE OCCASIONAL BOULDER ALONG UPPER EDGE OF SHOAL.



D1 SHORELINE SHOAL
N.T.S.



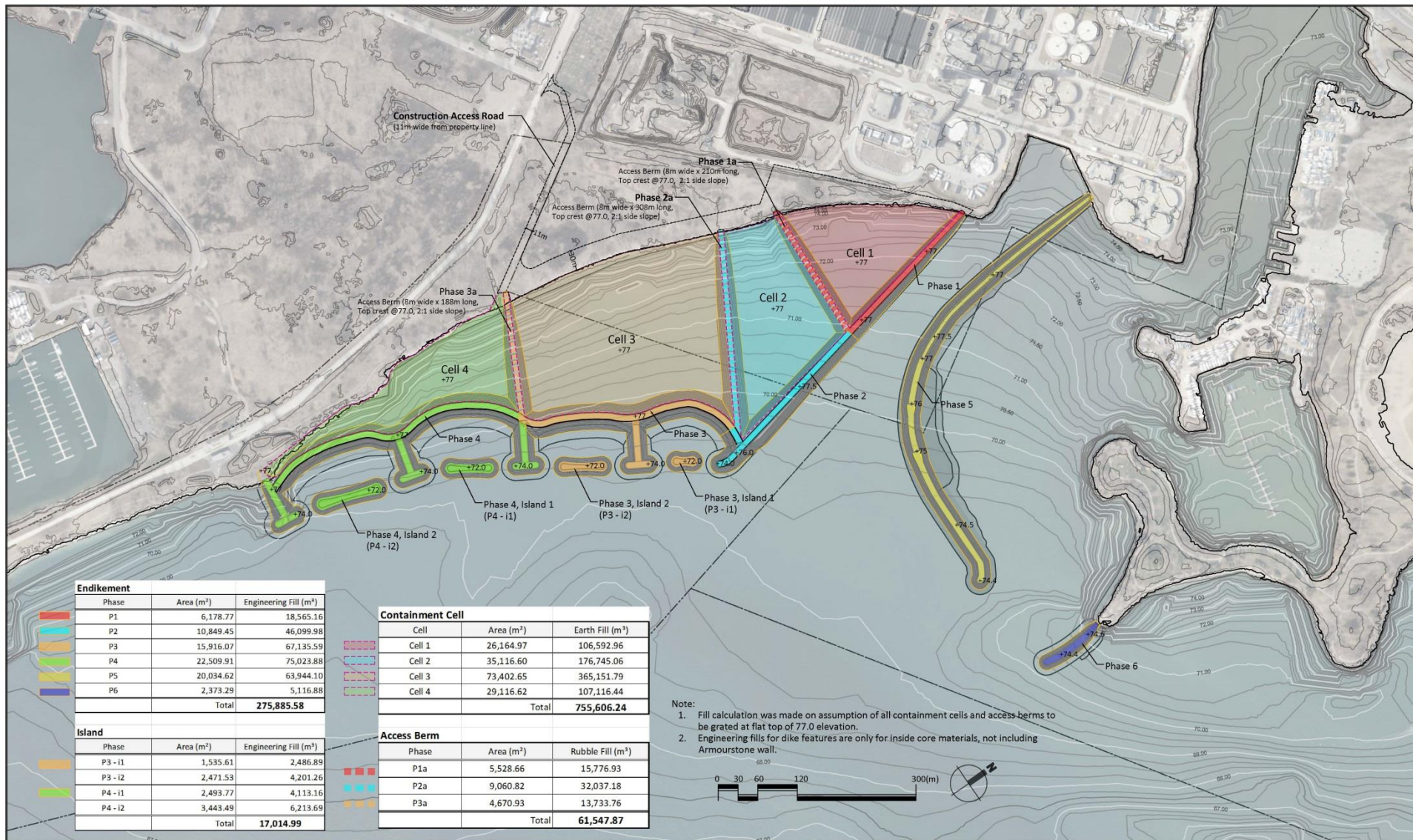
D2 EMBEDDED LOG
N.T.S.



D3 SURCHARGED EMBAYMENT
N.T.S.



D5 VERTICAL SUNKEN TREES
N.T.S.



PROJECT TITLE: **Ashbridges Bay Landform Project**

DRAWING TITLE: **Construction Phase Plan**

REVISIONS

NO.	DATE	DESCRIPTION	APPRO.

SCALE: DATE: 2018-03-12






BAR SCALE

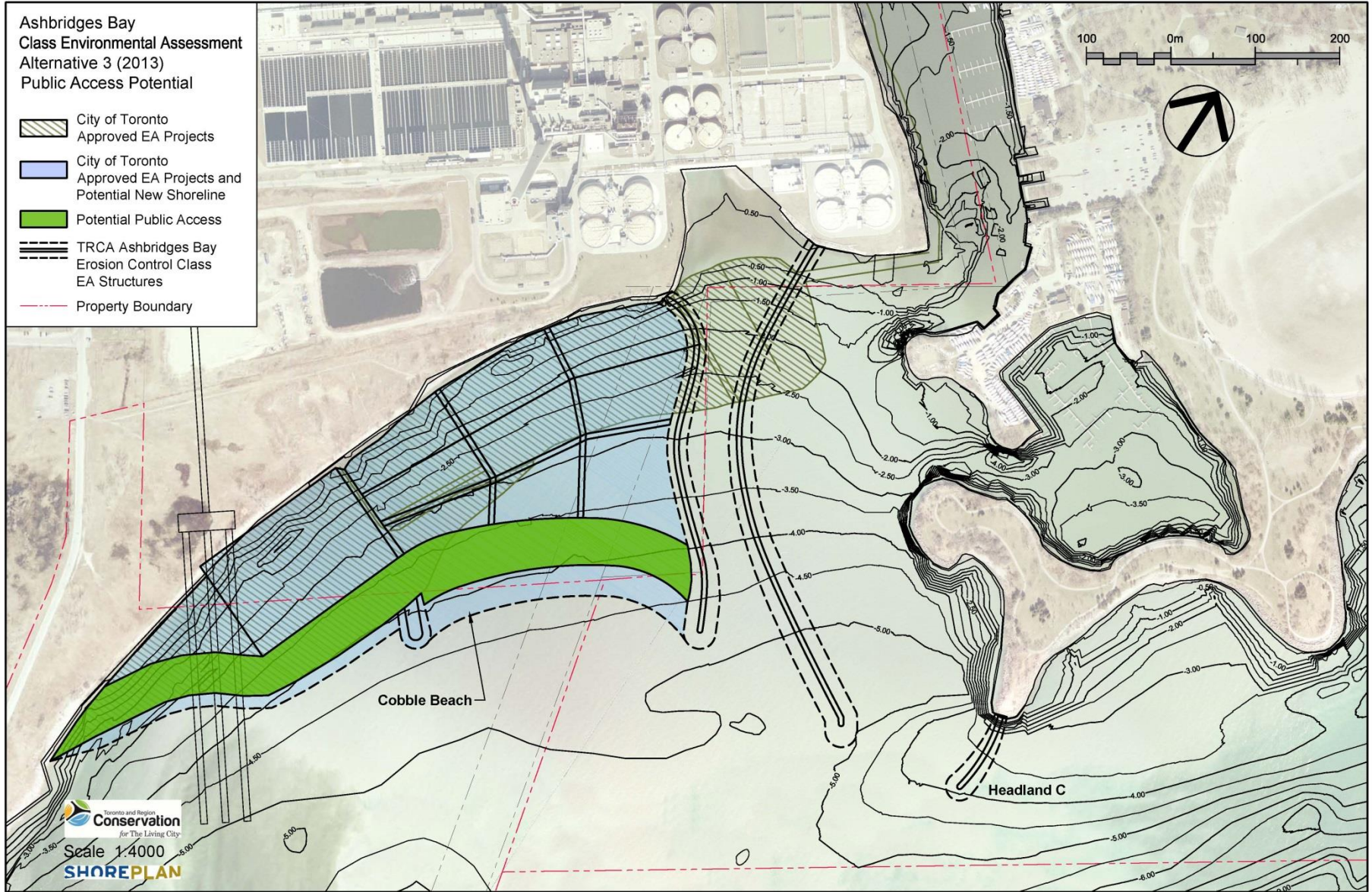
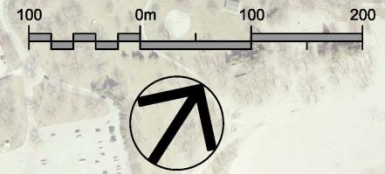
DWG. NO: **C01**

DESIGN: M.P., J.T. DRAWN: S.K. CHECKED: M.P., J.T.

REV.

Ashbridges Bay
Class Environmental Assessment
Alternative 3 (2013)
Public Access Potential

-  City of Toronto Approved EA Projects
-  City of Toronto Approved EA Projects and Potential New Shoreline
-  Potential Public Access
-  TRCA Ashbridges Bay Erosion Control Class EA Structures
-  Property Boundary



Toronto and Region
Conservation
for The Living City

Scale 1:4000

SHOREPLAN

Summary

- Undertaking the planning to find a remedial solution for this project was complicated due to a large number of other planning initiatives underway in the study area.
- In the end, by waiting to progress planning for the erosion and sediment issues in the areas this project was able to integrate infrastructure approved through other planning processes to ensure the best use of resources and minimize impacts environmentally and socially.

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