

Cherry Street Lakefilling and Design

June 21, 2017

Cherry Street Lakefilling Design

Proponent: Waterfront Toronto Presenters: Herb Sweeney, MVVA Review Stage: Detailed Design

Introduction

- This project was last presented at DRP in April 2017 for Schematic Design
- This is the third time the project is presenting to the Panel.

Proponent: Waterfront Toronto Presenters: Herb Sweeney, MVVA Review Stage: Detailed Design

Policy Context - Central Waterfront Secondary Plan

C21_RENATURALIZING THE MOUTH OF THE DON RIVER - This project is part of the approved plan for the naturalization of the mouth of the Don River.

(P28) Lakefilling will be considered only for stabilizing shorelines, improving open spaces, creating trail connections, preventing siltation and improving natural habitats and is subject to Provincial and Federal Environmental Assessment processes. Consideration will be given to the impact of such lakefilling on recreational uses.

Site Context

Cherry Street Lakefilling Design

Proponent: Waterfront Toronto Presenters: Herb Sweeney, MVVA Review Stage: Schematic Design



Site Context - Port Lands Flood Protection Project Scope

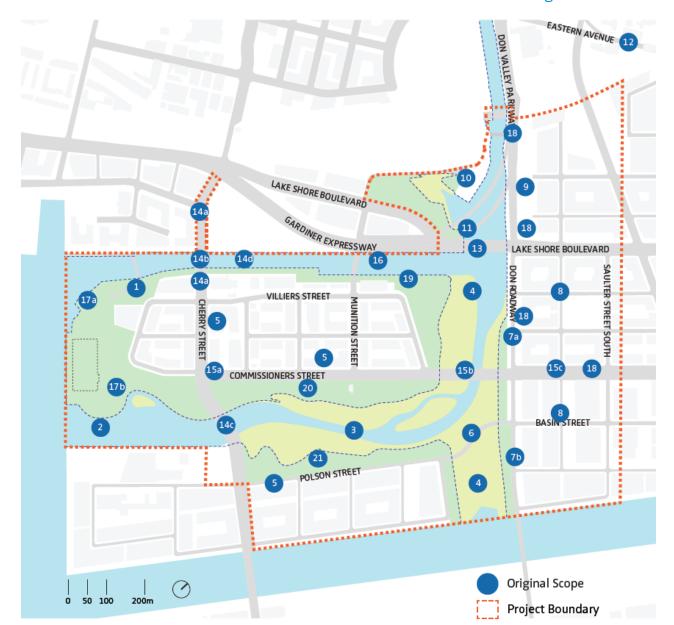
Cherry Street Lakefilling Design

Proponent: Waterfront Toronto Presenters: Herb Sweeney, MVVA Review Stage: Schematic Design

Legend

- Essroc Quay Lakefilling
- Polson Slip
 Naturalization
- River Valley System
- Don Greenway (Spillway & Wetland)
- 5 Site Wide Muncipal Infrastructure
- 6 Basin Street Bridge
- 7a Don Roadway North
- 7b Don Roadway South
- 8 Don Roadway Valley Wall Feature
- First Gulf/Unilever Site Flood Protection Land Form
- Sediment and Debris
 Management Area
- 111 Flow Control Weirs
- Eastern Ave. Flood Protection
- Lake Shore Road & Rail Bridge Modifications

- Cherry Street Re-alignment
- Cherry Street Bridge
 North
- Cherry Street Bridge
- Old Cherry Street
 Bridge Demolition
- Commissioners Street
 West to New Cherry Street
- Commissioners Street
 Bridge
- Commissioners Street
 East to Saulter Street
- 16 Keating Channel Modifications
- Promontory Park
 North
- Promontory Park
 South
- Hydro One Integration
- 19 Villiers Island Grading
- River Park
 North
- River Park
 South



Background

September 14th, the three orders of Government announced \$65M for the Essroc Quay Lakefilling Project:

- Part of the broader Project yet can be completed on a stand-alone basis
- Create a new landmass around the current Essroc Quay and stabilize the area shoreline under flood conditions
- Improve water quality, optimize water and storm water infrastructure
- Create new naturalized open spaces and aquatic habitat
- Facilitate the construction of roads and transit into the Port Lands by enabling shift of Cherry Street Bridge
- Does not include Promontory Park design/ construction

Cherry Street Lakefilling Design

Proponent: Waterfront Toronto Presenters: Herb Sweeney, MVVA Review Stage: Detailed Design



Cherry Street Lakefilling Design

Proponent: Waterfront Toronto Presenters: Herb Sweeney, MVVA Review Stage: Detailed Design

Scope of Work:

- Lead Engineer (CH2M) was retained in March, 2017
- MVVA, MMM, LimnoTech and Interfluve have been retained to:
 - Provide design integration as it relates to the future Promontory Park
 - Design Fish Habitat Compensation
 - Undertake design for diversion of existing sewers and oversee
 Construction Administration for this work.
- Design integration for Promontory Park north and south will proceed as part of detailed design for major river project
- This presentation will focus on detailed design scope of present Cherry Street Lakefilling project only, which includes:
 - Aquatic habitat
 - Park edge

Project Schedule:

- The Essroc Quay Lakefilling must be complete by 2019 due to condition of funding.
- Construction for Essroc Quay Lakefilling containment structures must commence in August 2017.



Cherry Street Lakefilling Design

Proponent: Waterfront Toronto Presenters: Herb Sweeney, MVVA Review Stage: Detailed Design

Recap

Summary of the Panel's comments from April 2017:

- Overall a strong and clear concept
- Views back to the City, Lake and the neighbourhood are all critical refine how the linear and curved features of the park elements will enhance the views
- Think about how the cove meets the wall including size, placement, integration of soft landscape with hard stone armour
- Bridge element to be studied before making a conclusion on whether it is necessary
- Think about the integration of the two sides of the hill: the water side and the neighbourhood side

Areas for Panel Consideration

Cherry Street Lakefilling Design

Proponent: Waterfront Toronto Presenters: Herb Sweeney, MVVA Review Stage: Detailed Design

- Integration of the causeway and harbour overlook staircase
- Character of the beach
- Use of the dimensional stone

Cherry Street Lakefilling Design Review Submission

21 June 2017

Michael Van Valkenburgh Associates, Inc.
Landscape Architects

Project Name: Cherry Street Lakefilling

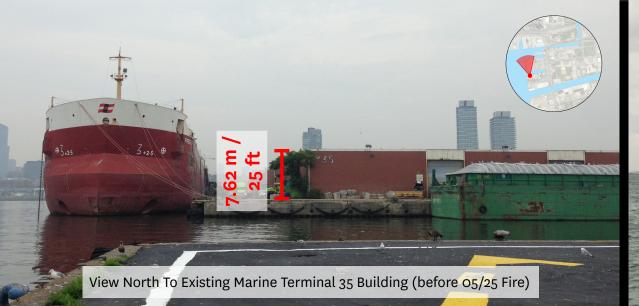
Proponent: Michael Van Valkenburgh Associates, Inc. Landscape Architects

	Design Review Panel Consensus Comments		Proponent's Response
1.	MT35 building preservation is supported – further explore how vegetation dissolves into the structure.	1.	Due to the recent fire on 05/25 this has not been advanced. Further advancement of this item will be addressed in Promontory Park Schematic Design Phase.
2.	Views back to the City, Lake and the neighbourhood are all critical – refine how the linear and curved features of the park elements will enhance the views.	2.	Further advancement of this item will be addressed in Promontory Park Schematic Design Phase.
3.	Think about how the cove meets the wall including size, placement, integration of soft landscape with hard stone armour.	3.	The design and alignment of the rocky causeway has been modified to resemble the language of the rest of the park. The stone size at the armour slope has been reduced and dimensional stones have been incorporated for water access. The vegetated area at the east side of the West Cove has been expanded.
4.	Bridge element to be studied before making a conclusion on whether it is necessary.	4.	Further advancement of this item will be addressed in Promontory Park Schematic Design Phase.
5.	Think about the integration of the two sides of the hill: the water side and the neighbourhood side.	5.	Further advancement of this item will be addressed in Promontory Park Schematic Design Phase.

Proponent Response Chart



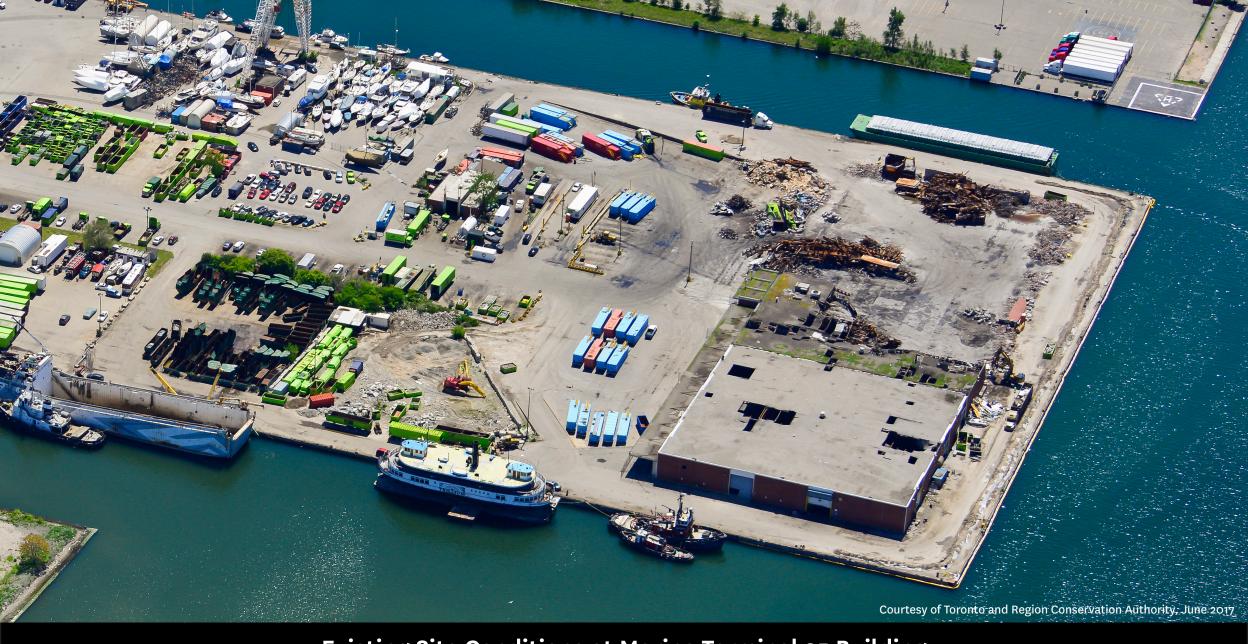
Cherry Street Lakefill Project Area



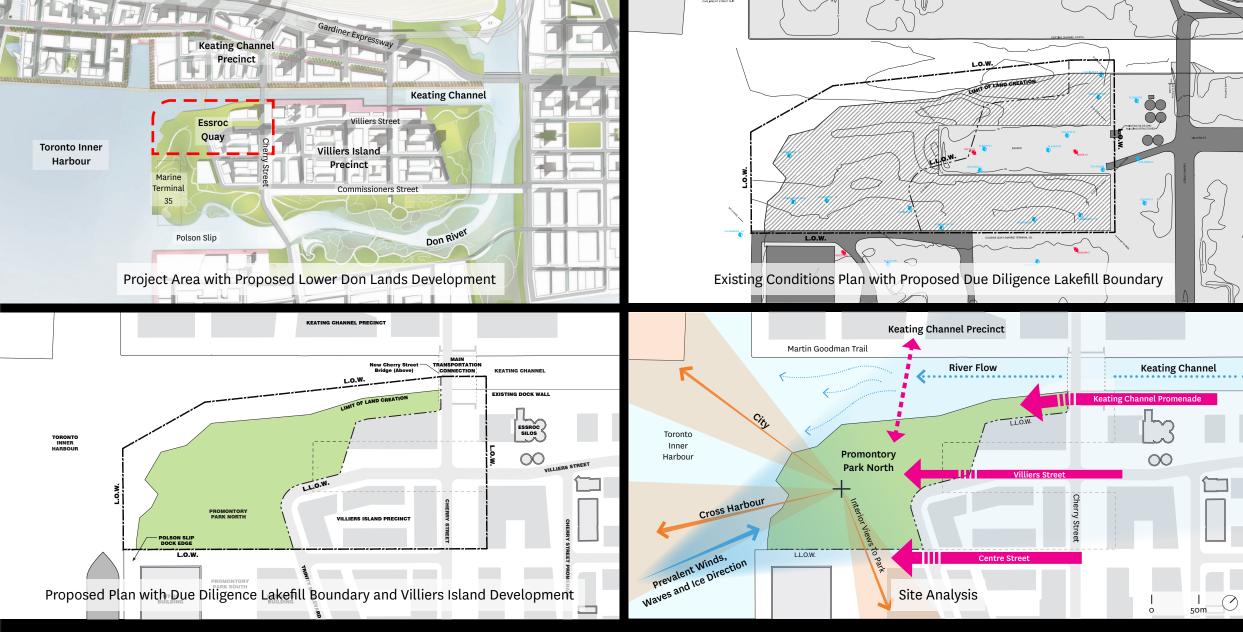




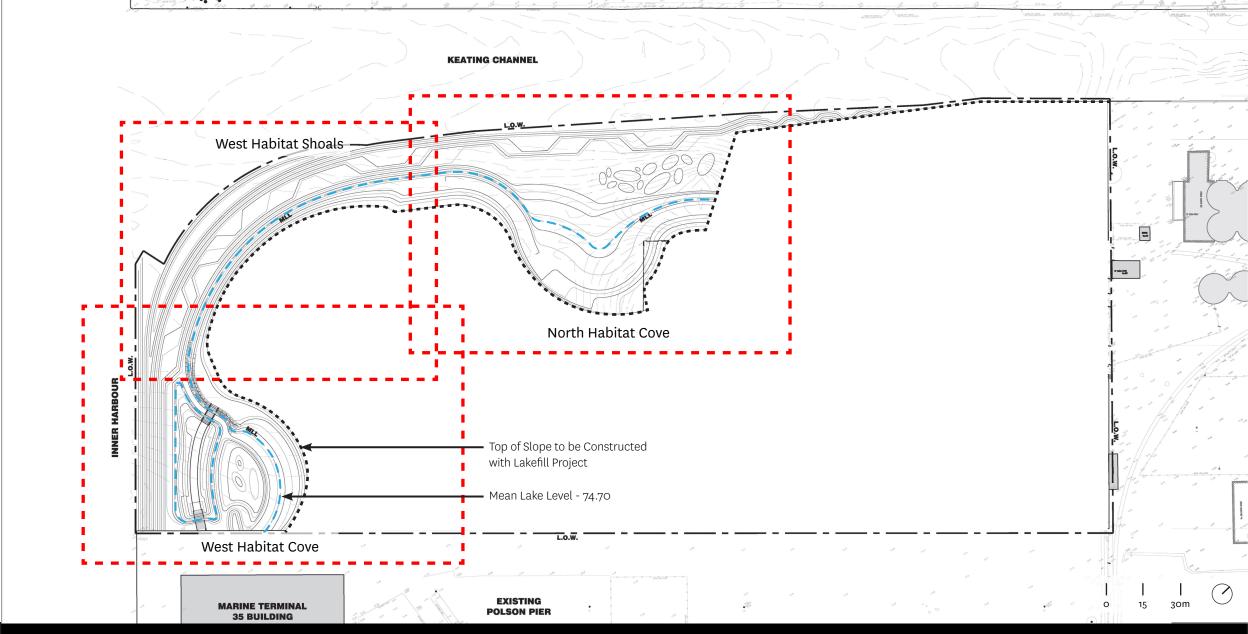
Existing Site Conditions



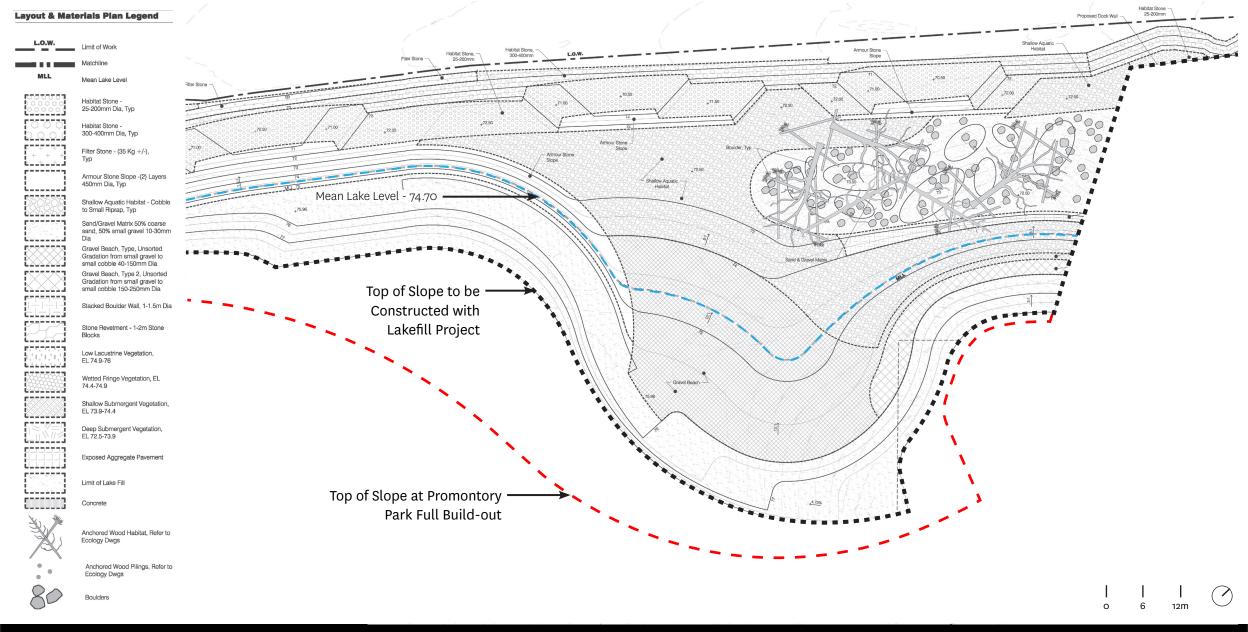
Existing Site Conditions at Marine Terminal 35 Building

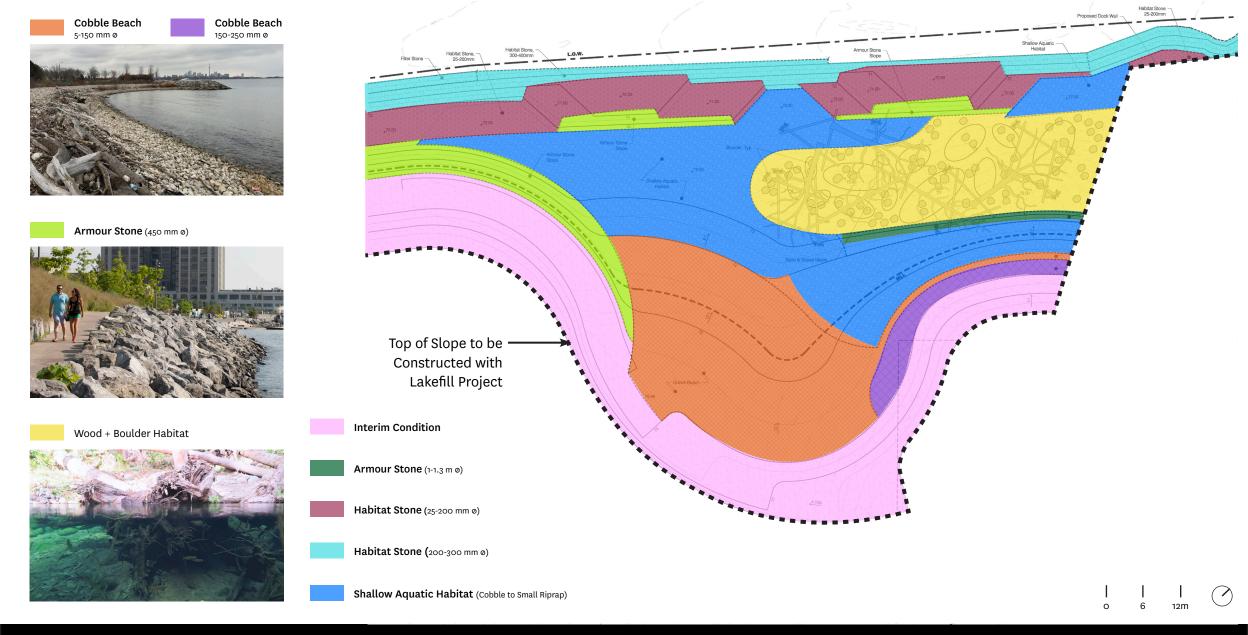


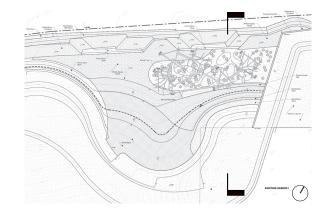
Cherry Street Lakefill Site Context

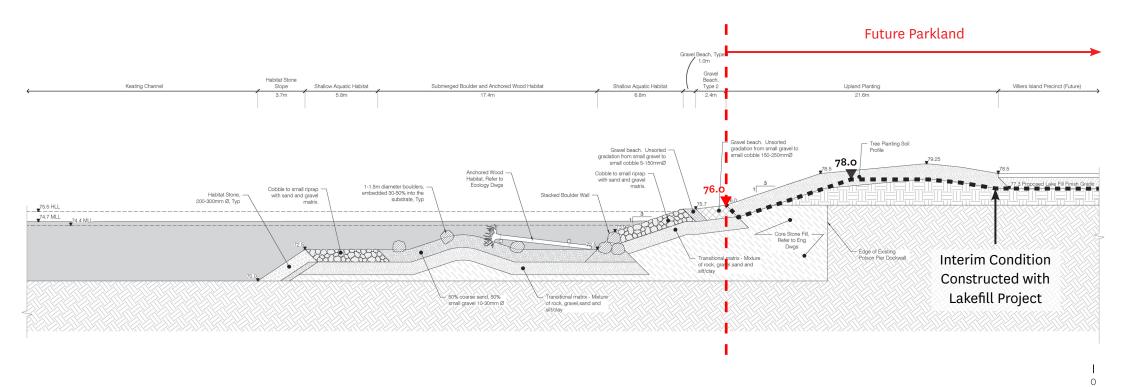


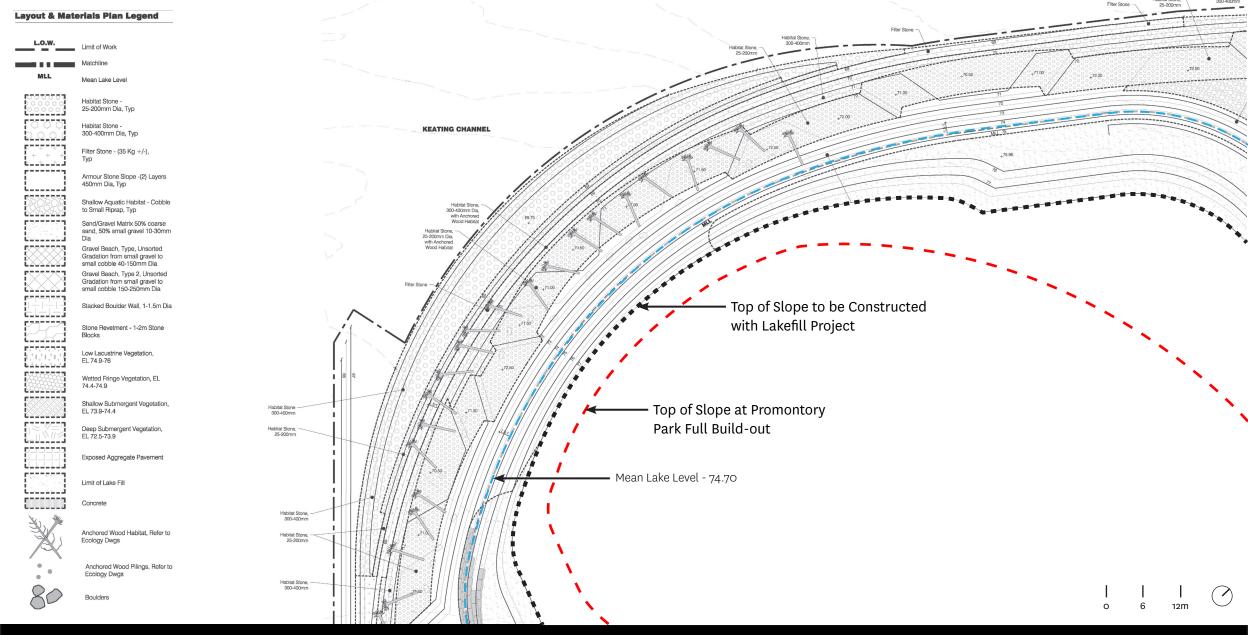
Cherry Street Lakefilling Aquatic Habitat - Reference Plan



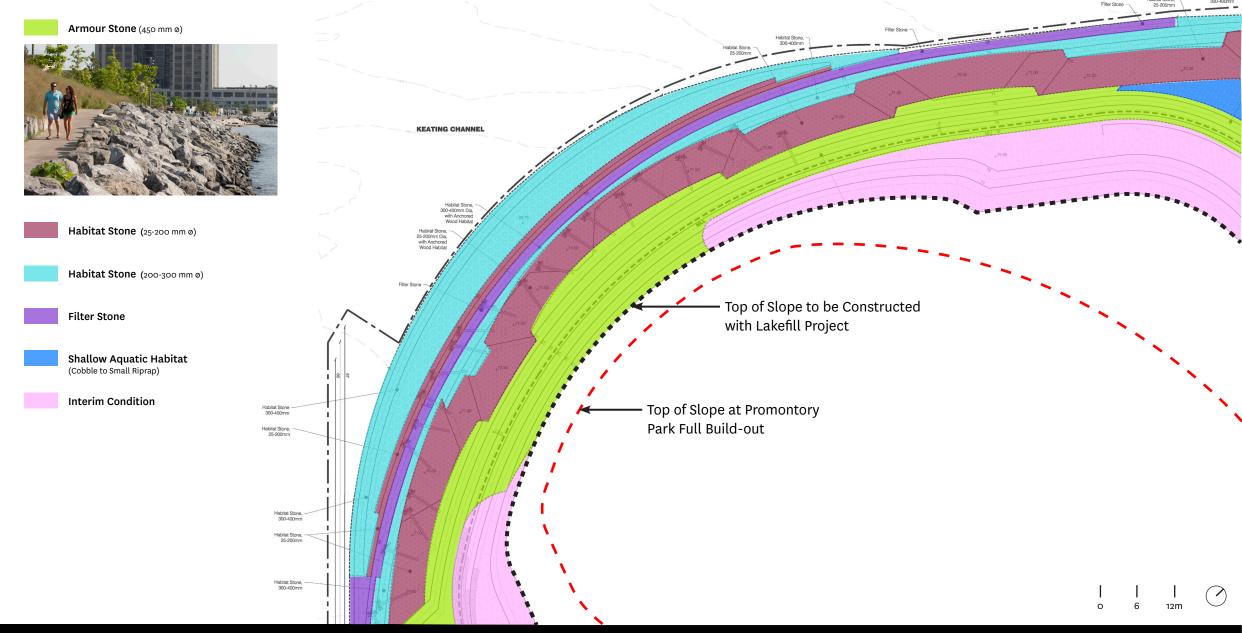




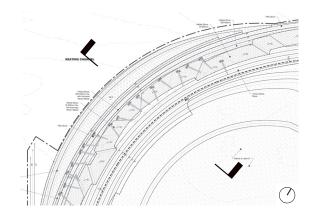


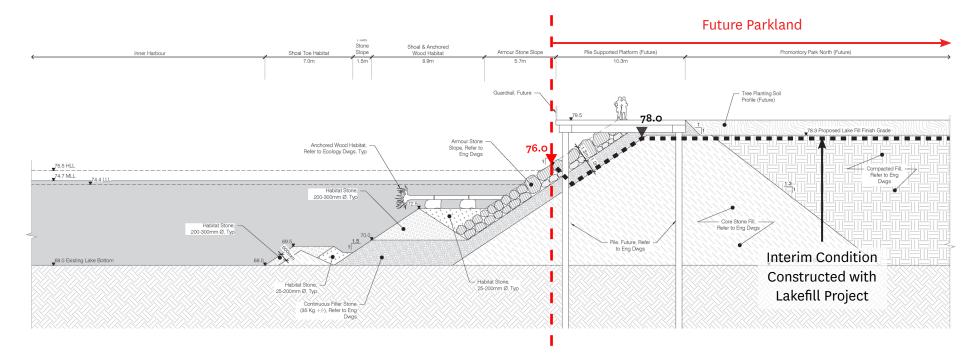


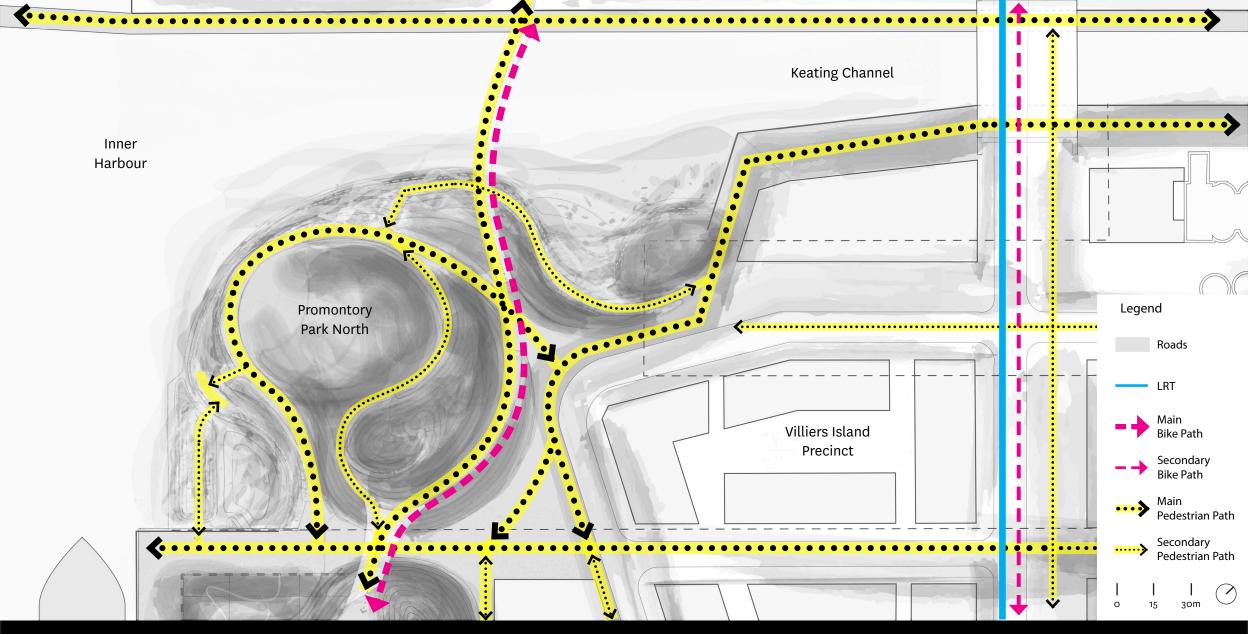
West Habitat Shoals - Enlargement Plan



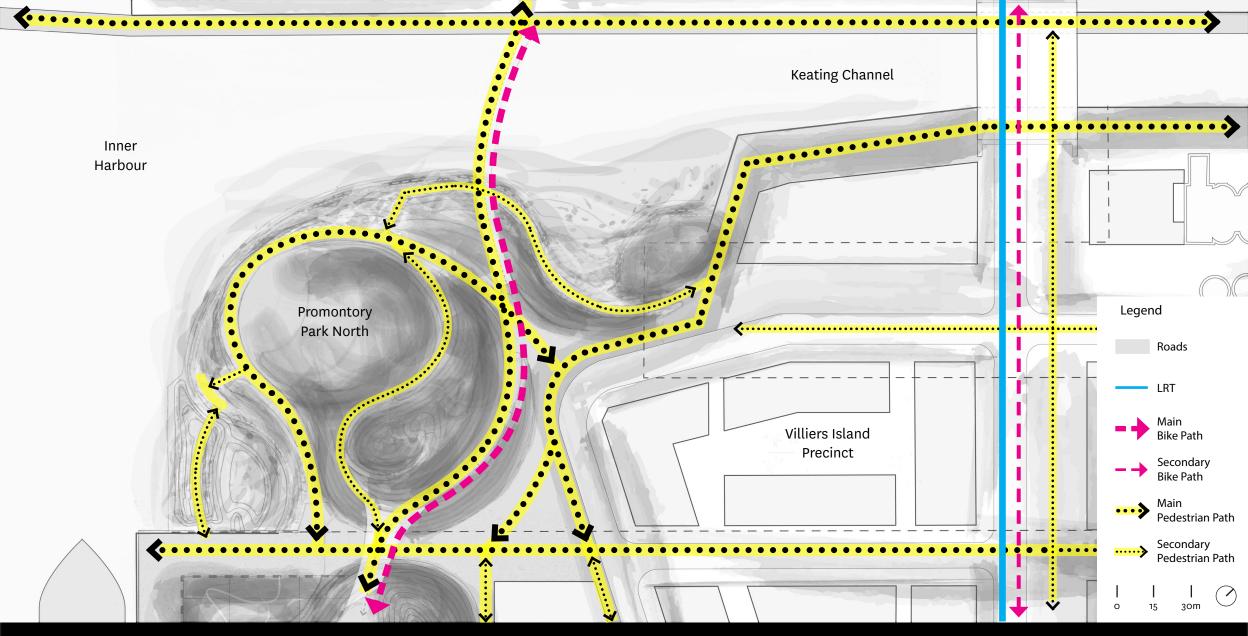
West Habitat Shoals - Materials Diagram



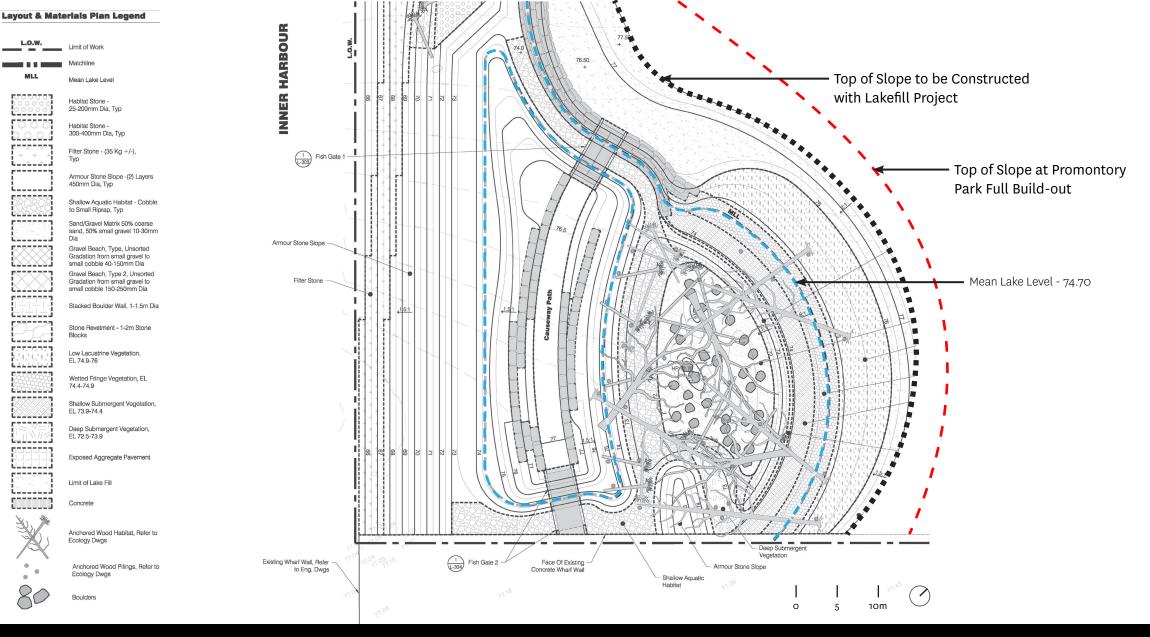


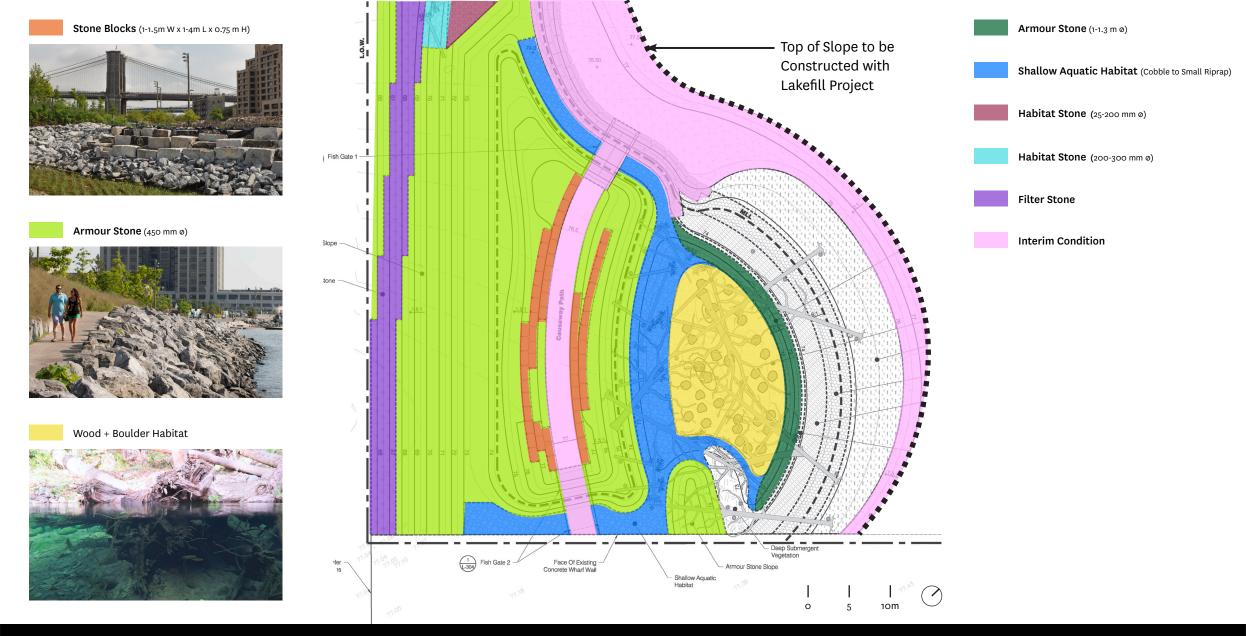


Promontory Park North - Connectivity Diagram DRP Meeting 04/19

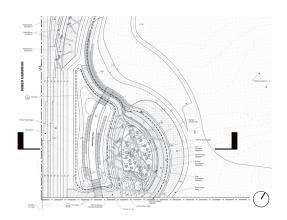


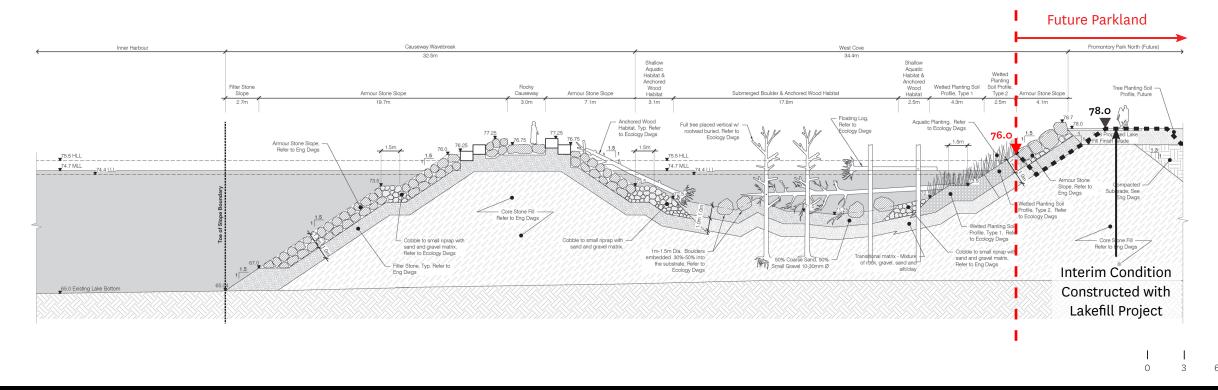
Promontory Park North - Connectivity Diagram Proposed

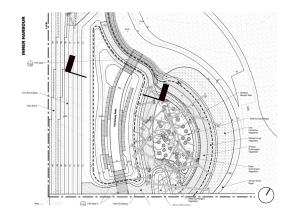


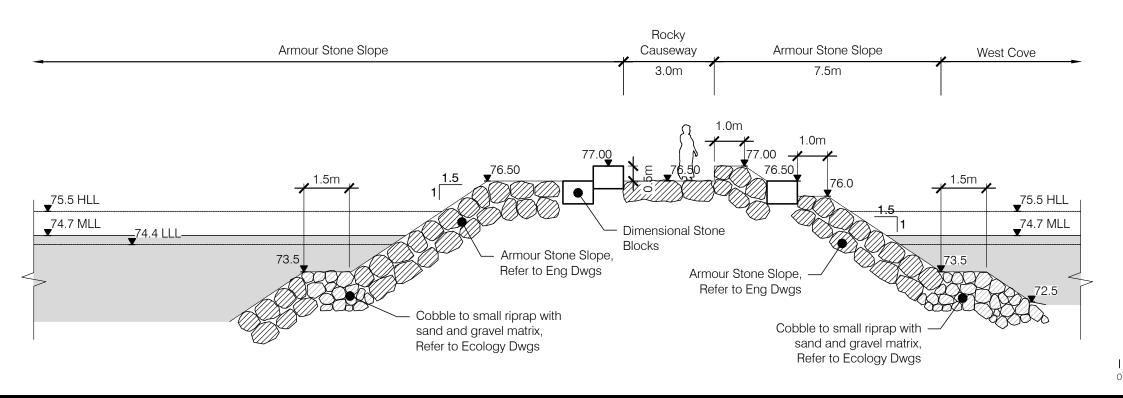


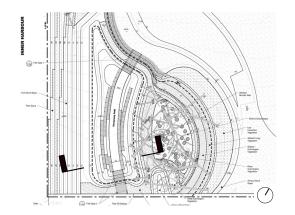
West Habitat Cove - Materials Diagram

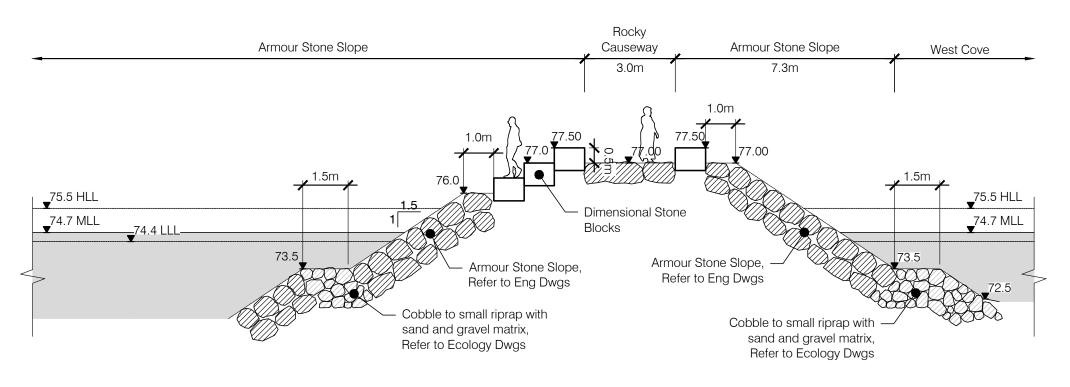


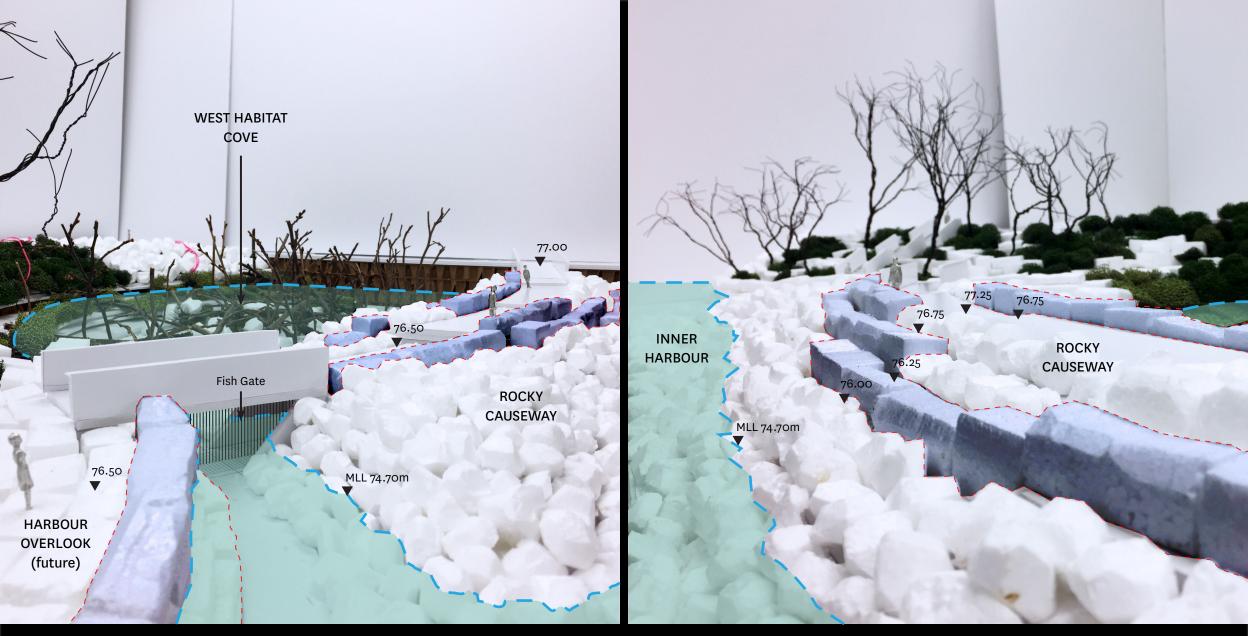






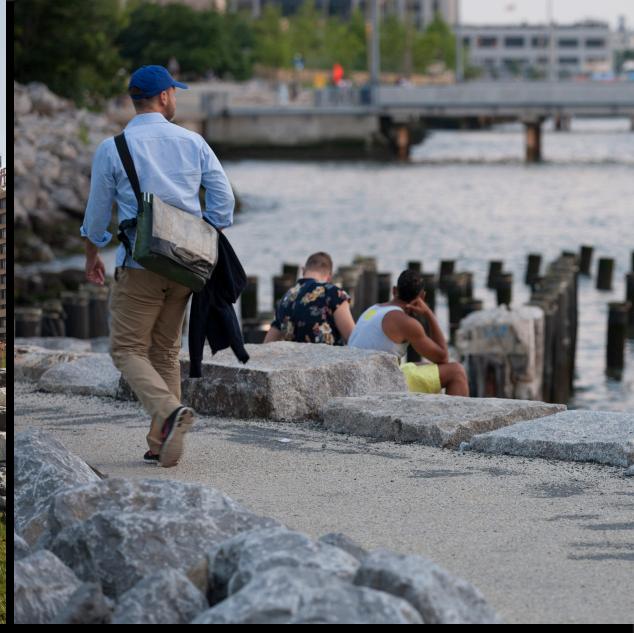




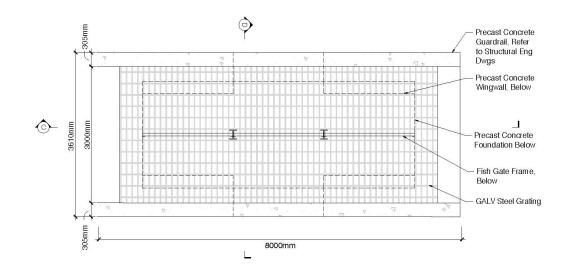


West Habitat Cove - Breakwater Study Model

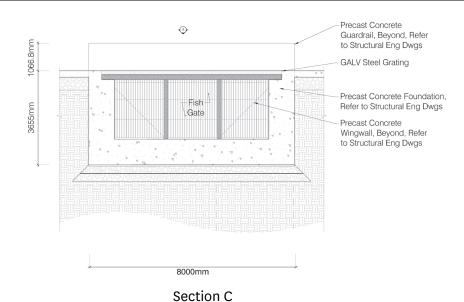


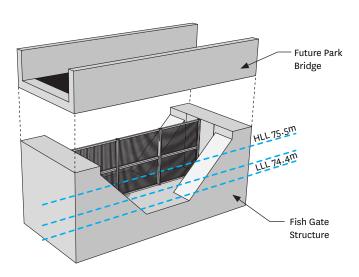


West Habitat Cove - Breakwater Precedent

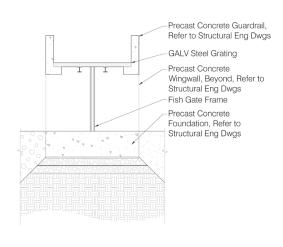


Plan

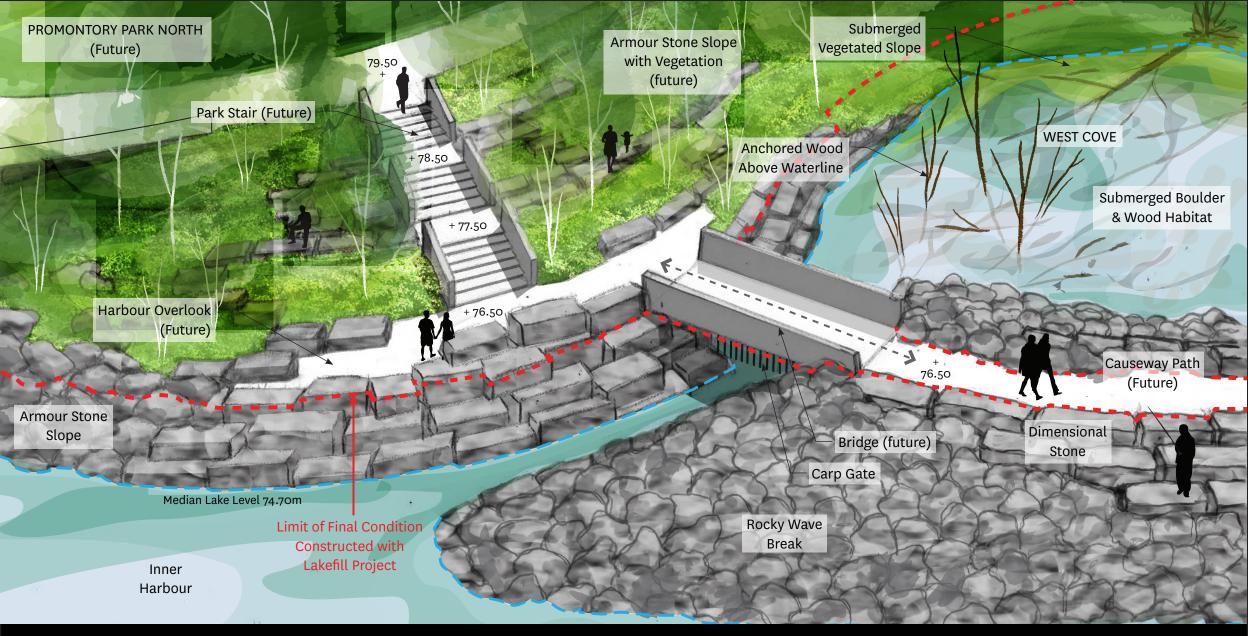




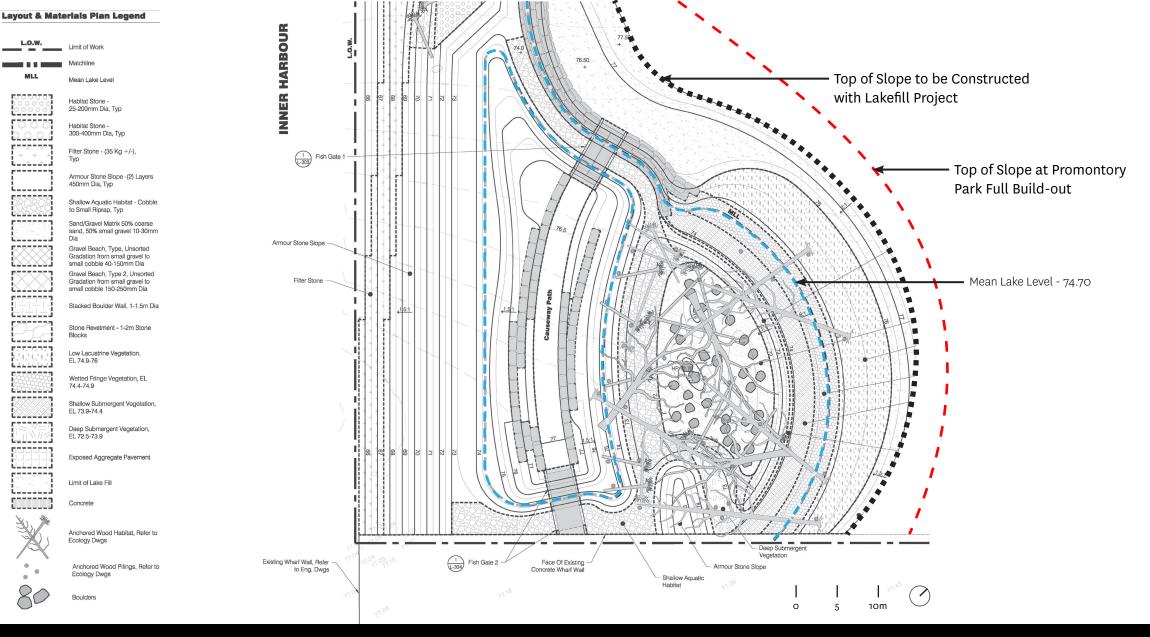
Axonometric

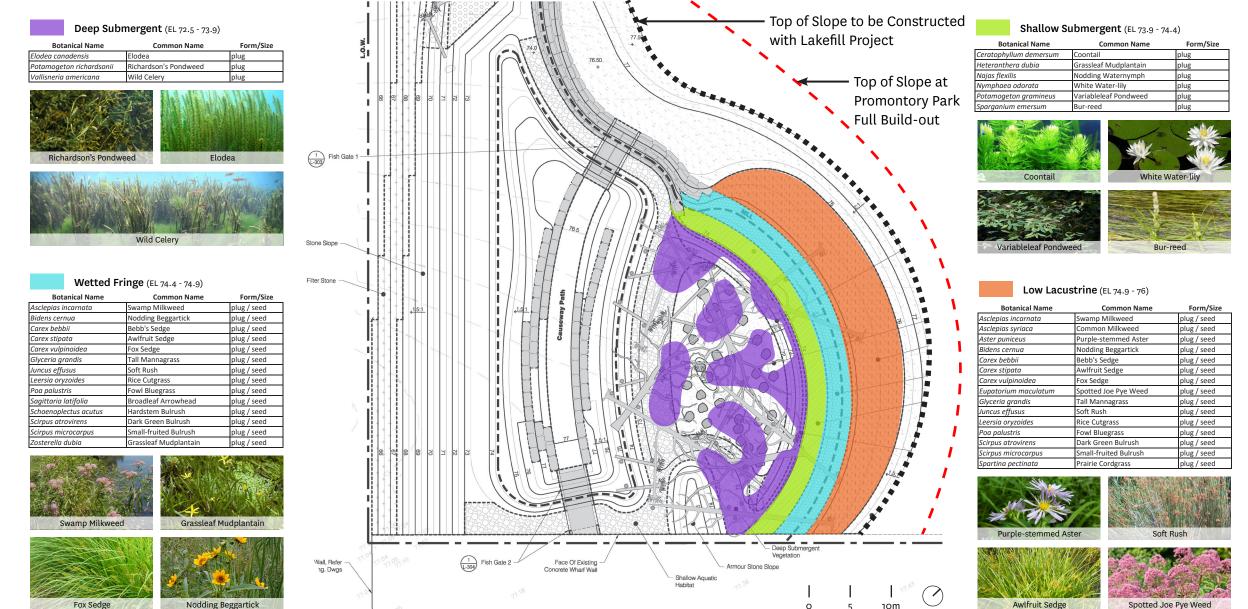


Section D

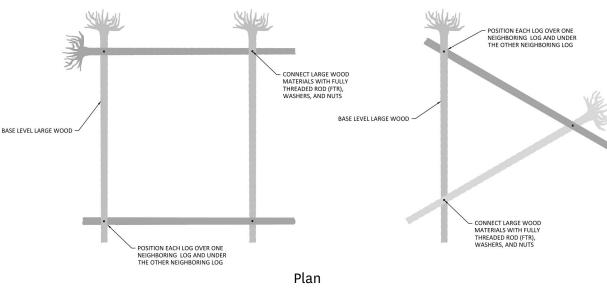


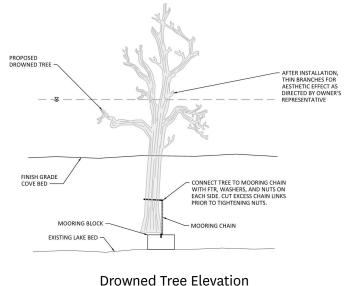
West Habitat Cove - Harbour Overlook Axonometric Diagram

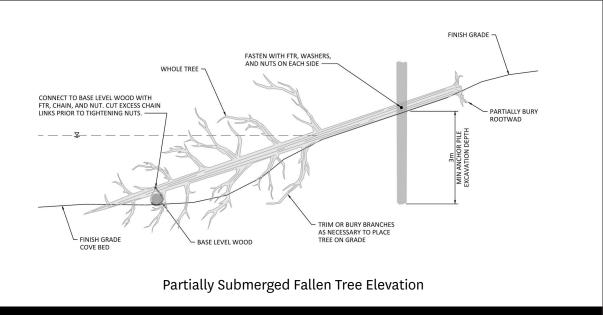




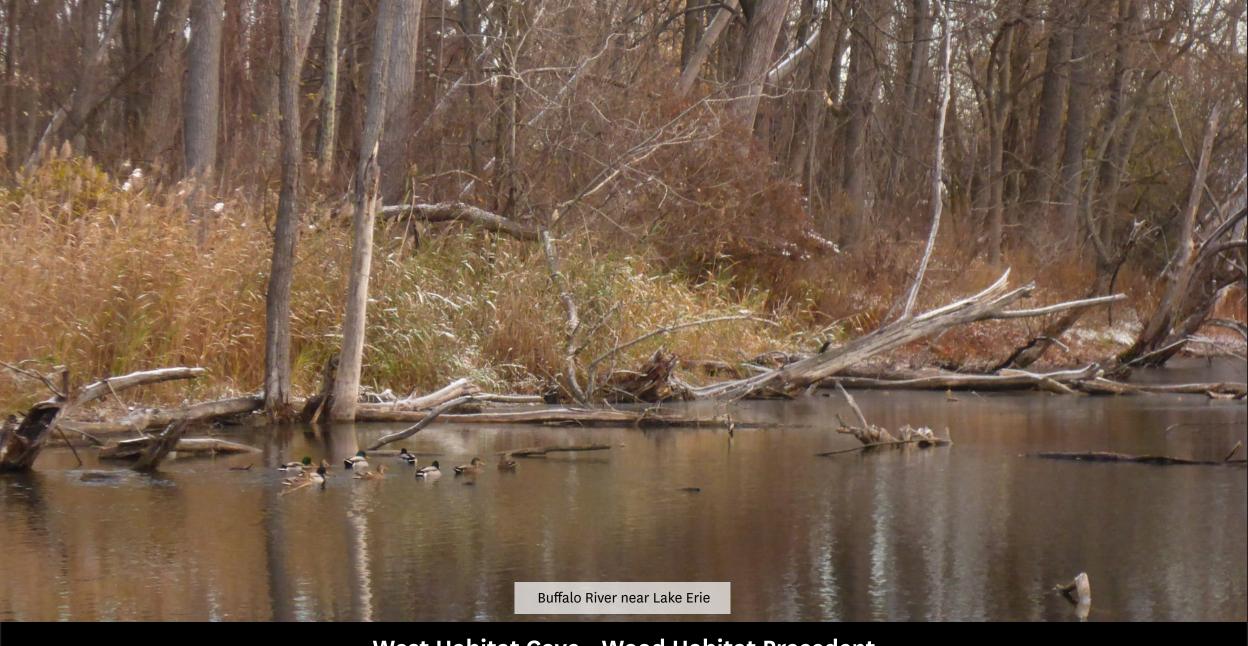








West Habitat Cove - Base Level Large Wood Details



West Habitat Cove - Wood Habitat Precedent



Promontory Park North and South - Axonometric Diagram