



Water's Edge Promenade and Stormwater Management Facility Fact Sheet

LOCATION

The water's edge promenade and boardwalk will run the full length of the East Bayfront neighbourhood along Lake Ontario from just east of the Jarvis Slip at Canada's Sugar Beach to the Parliament Slip.

The first phase of promenade, which opened in July 2010, runs from Canada's Sugar Beach to just east of Sherbourne Common. The 11-metre wide wooden boardwalk planned alongside the promenade will be built in the future over the stormwater management tanks for East Bayfront.

DIMENSIONS

Length: 925 metres (750 metres at the water's edge and 175 metres within Canada's Sugar Beach)

Phase one: 445 metres (including Canada's Sugar Beach) to just east of Sherbourne Common

Size: 9.4-metre wide granite mosaic promenade plus an additional 9-metre wide pedestrian area between the buildings and the promenade; an 11-metre wide wooden boardwalk will be built on top of the stormwater tanks in East Bayfront as the community develops

DESCRIPTION

The water's edge promenade and boardwalk in East Bayfront gives people, for the first time, an opportunity to experience Toronto's waterfront east of the Jarvis Slip. This formerly industrial area, which lacked public access to the lake, has been transformed into an uninterrupted walkway where pedestrians can stroll along a tree-lined granite promenade. In the future, as the community develops, a wooden boardwalk will be built alongside the promenade giving people another opportunity to engage with the lake.

The way people experience the water's edge from either the promenade or boardwalk will be quite different. Along the promenade, a row of mature trees lining each side will create a French-style allée by the lake sheltering pedestrians from the sun and the wind. The boardwalk, open to the elements, will give pedestrians full exposure to the lake.

The promenade and boardwalk are designed to offer a generous civic space by the water. The promenade, located alongside the dockwall, is 9.4 metres wide and features a maple-leaf mosaic motif composed of red and grey granite. A slightly lowered 8-metre wide wooden boardwalk will be cantilevered out over the water on top of the stormwater storage tanks for the new community. These two elements — the promenade and boardwalk — plus an additional 9-metre wide pedestrian area between the buildings and the promenade, offer a generous amount of space along the lakefront.

Spanning the full length of East Bayfront, the water's edge promenade and boardwalk provides waterfront access in front of all of the buildings in the area — both public and private —

including the Corus Entertainment building, George Brown College, and future residences along the western edge of the community.

In addition to providing public access to the water's edge, the boardwalk will also serve as an important part of the integrated stormwater management system in East Bayfront.

DESIGN FEATURES

THE PROMENADE

- Length: 925 metres (750 metres at the water's edge and 175 metres within Canada's Sugar Beach)
- Width: 9.4 metres
- Materials:
 - Granite cobbles with split face edges and a smooth surface, set on a granular base. Each cobble measures 100x100x80mm. There are approximately 730,000 cobbles on the promenade.
 - The mosaic pattern is made of 7 varying sizes of maple leaf figures. The smallest leaf is about 14m², and the largest leaf is 80m².
 - The mosaic is two-tone: the cobblestone surface is red (Royal Canadian red granite), while the maple leaf figures are light grey (St Sebastien granite).
- Connection to boardwalk:
 - Stairs and ramps between the promenade and the boardwalk facilitate easy movement between the two routes.
- Trees:
 - Number of trees: 200
 - Type: A blend of 'Autumn Blaze', 'Marmo' & 'Autumn Fantasy' maples
 - Distance between rows: 7metres
 - Distance between trees: 10metres
 - Tree rings: galvanized steel
- Soil Cells:
 - To help deliver mature trees, a tiered web of rigid boxes called Silva Cells have been installed on the promenade.
 - Number of Silva Cells installed: approx. 20 000
 - Silva Cells dimensions: 1.2m long x 600mm wide x 400mm high
 - Soil volume: 30 cubic metres of nutrient soil per tree

THE BOARDWALK

- Length: 750 metres
Width: 8 metres
- Materials
 - Ipe decking in a herringbone pattern
 - The boardwalk is supported by stormwater tanks which collect and treat water from the adjacent neighbourhoods.

- Bench

There are 3 types of benches along the water's edge promenade. The backless and back benches are placed along the granite promenade, while the double-sided benches straddle the dockwall and make the transition from the promenade to the boardwalk. The benches are supported by custom cast aluminum brackets, painted red to add a splash of vibrant colour.

- Number of benches: Backless benches: 9
 Back benches: 19
 Double-sided benches: 15
- Dimensions: Backless bench: 450mm high x 770mm x 4.2m long
 Back bench: 930mm high x 1.2m wide x 4.2m long
 Double-sided bench: 484mm high x 1.8m wide x variable lengths
 (typically 24 or 34 metres long -- the longest double-sided bench
 is 39.6 metres)
- Type of wood: Ipe

PEDESTRIAN AREA BETWEEN BUILDINGS

- Length: 750 metres
Width: 9 metres (varies)
- Materials
 - Concrete pavers: Paleotec pavers

OTHER ELEMENTS

- Bike rings 37 (22 at the water's edge and 15 within Canada's Sugar Beach)
- Emergency and service access is provided along the whole length of the promenade. Access to the promenade for service/emergency vehicles is through Canada's Sugar Beach, Corus Laneway and George Brown College Laneway.

ENVIRONMENTAL SUSTAINABILITY

The water's edge promenade and boardwalk is part of Waterfront Toronto's LEED ND GOLD (Leadership in Energy and Environmental Design for Neighbourhood Development) in East Bayfront. This plan, established by the US Green Building Council, helps planners and developers create communities that not only protect the environment but address important social and health issues such as sustainable transportation, proximity to day-to-day destinations and access to public and active spaces.

STORMWATER MANAGEMENT

The water's edge promenade and boardwalk is an integral part of the integrated stormwater management facility for East Bayfront. After a storm, runoff will be collected in East Bayfront's Stormwater Management Facility located in tanks under the water's edge boardwalk parallel to the dockwall. These tanks have three key roles – they collect stormwater, reinforce the existing, deteriorating dockwall and create a platform over which a beautiful public promenade will be built.

After water is collected in the tanks, it will be transferred to a large tank under the Parliament WaveDeck which will include an artificial wetland. Three large holes in the wavedeck's platform will allow natural UV rays to penetrate and perform initial water treatment. At that point, the water will be conveyed to the Sherbourne Common UV Purification Facility housed beneath the park's Pavilion where strong UV light will complete the treatment process.

After UV treatment is complete, the water will enter the 240-metre long water channel in Sherbourne Common through one of three dramatic sculptures that rise almost nine metres from the ground. Water will be elegantly lifted from the channel toward the sky and down as a textured veil of water.

After traveling the full length of the channel, which includes a biofiltration bed, clean water will be discharged into Lake Ontario.

AQUATIC HABITAT

The revitalization of East Bayfront features the creation of new fish habitat alongside the stormwater management tanks located next to the water's edge promenade. The new fish habitat includes the installation of riverstone shoals, tree logs and embankments to provide shelter and increased feeding and forging opportunities for lake fish.

Aquatic Habitat Toronto, of which Waterfront Toronto is a partner, has won a Public Sector Quality Fair award for the aquatic habitat enhancement already completed on Toronto's waterfront.

BUDGET AND TIMING

Phase one budget: \$10 million

Construction began on the first stretch of the water's edge promenade in early 2010. The 270-metre stretch, which runs from the eastern edge of Canada's Sugar Beach to the eastern edge of Sherbourne Common, opened in July 2010. The 11-metre wide wooden boardwalk planned alongside the promenade will be built in the future over the stormwater management tanks for East Bayfront.

DESIGNERS

Promenade and boardwalk: West 8 + DTAH

Stormwater management facility: The Municipal Infrastructure Group

CONSTRUCTION CONTRACTOR

Construction Manager: Eastern Construction

Landscape Contractors: Somerville Construction (Water's Edge Promenade)

Aldershot Landscape Contractors (Canada's Sugar Beach)

Granite Paving: Trinity Masonry (Water's Edge Promenade granite)

Aldershot Landscape Contractors (Canada's Sugar Beach)

ACCESSIBILITY

The water's edge promenade has been designed to be fully accessible for people with disabilities. Ramps between the promenade and the boardwalk facilitate easy movement between the two routes.

PARK OPERATIONS

The City of Toronto Parks Department will provide maintenance and operation of the Water's Edge Promenade and Boardwalk including the stormwater management facility.