Beaverton Low Impact Development

Township of Brock

April 29th, 2024

Christa Sharp, Manager Restoration Services

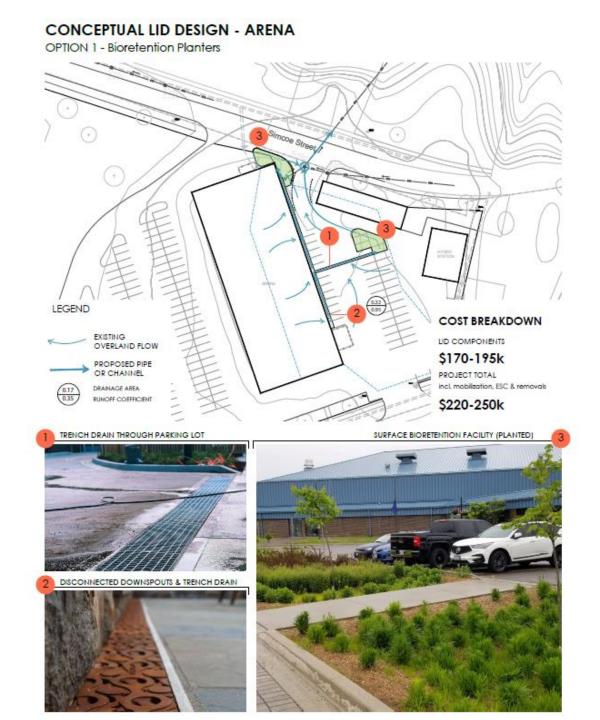
Lake Simcoe Conservation Authority

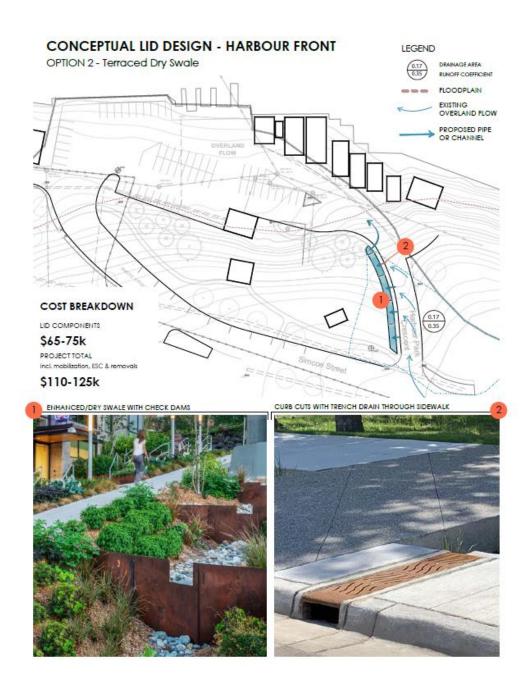




Beaverton Stormwater Studies and Concepts

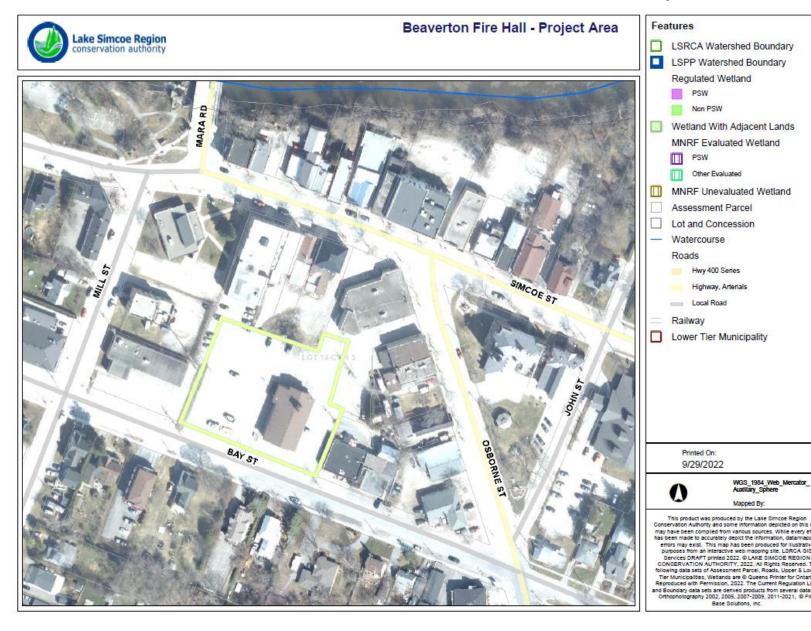
- Conservation Authority was doing outreach with our member municipalities to promote funding opportunities from our Water Balance recharge and Phosphorus offsetting funding
- The project started in 2022 when LSRCA issued a request for quote to review the firehall, arena and harbour front from opportunities to address stormwater.
- Designs were reviewed by staff and MOU was created and signed by all parties.





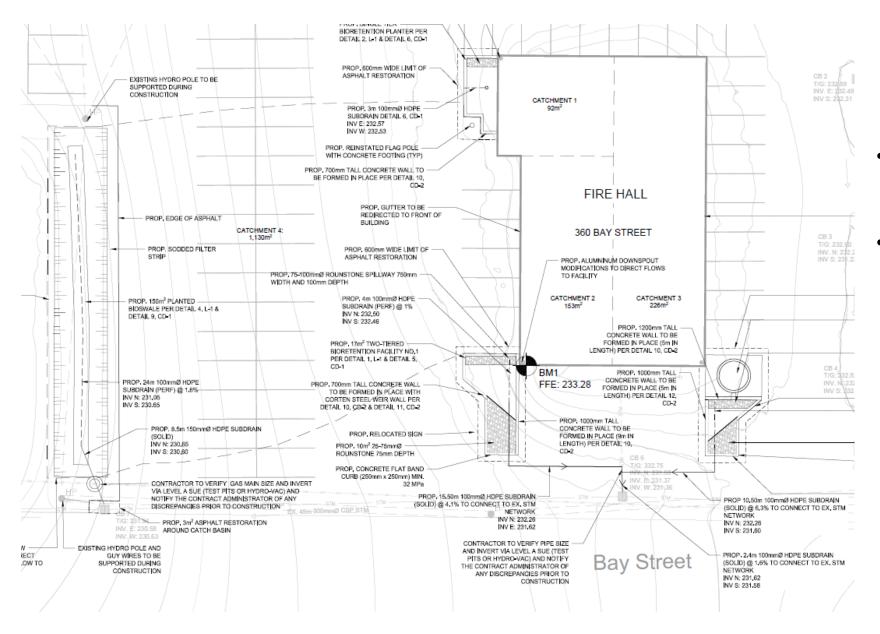
- The were 5 conceptual designs for the arena and harbourfront suggested and reviewed.
- The firehall was deemed the most economical and environmentally beneficial project.
- Construction designs were created in 2023

Beaverton Firehall Low Impact Development



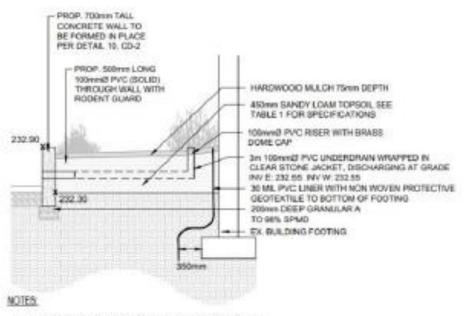
- The final chosen project is the Beaverton Firehall
- The current property is fully impermeable and drains directly into catch basins.
- Construction tender was issued and closed January 2024





- 0.16ha catchment which is currently entirely impermeable
- The drainage is broken down into 4 different catchments
 - Western Parking
 - SW Rooftop
 - NW Rooftop
 - Eastern Rooftop

Bioretention garden capturing westside (north) rooftop



DIMENSIONS AND ELEVATIONS PER DETAIL 2, SHEET L-1.

Bioretention planter capturing westside (south) rooftop

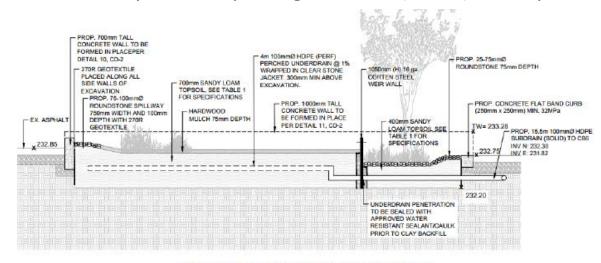
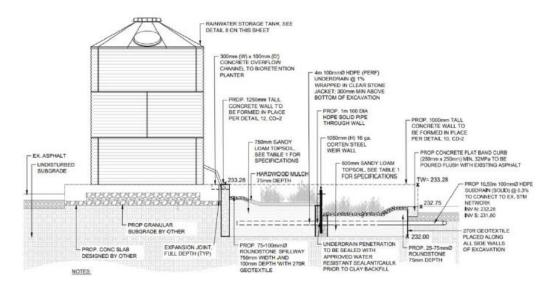
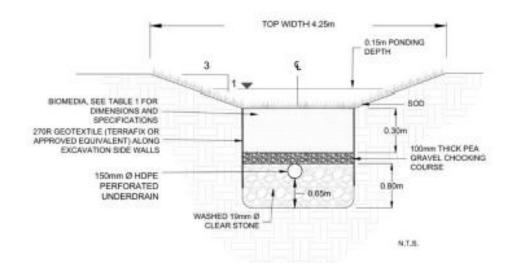


Figure 7-8 Two Tiered Bioretention Planter Detail (BR1)

Storage Tank capturing eastside rooftop



Bioswale capturing parking lot runoff





Funding and Partners

- Concepts, Final design and Construction Inspection – \$87,000
 - Funded through Ministry of Environment,
 Conservation and Parks and
 - Conservation Authority
- Construction and Construction Administration -\$465,000
 - Conservation Authority Confirmed Cash and In-kind
 - Lake Simcoe Conservation Foundation Confirmed
 - Environment Canada Freshwater Action Applied
 - Township of Brock In-kind staff time and disposal of excavated native soil



Status update and next steps

Current Status

- Construction started the first week of April.
- Construction will be wrapped up by late May.
- Training for staff in late May by manufacturer

Upcoming discussions and ideas

- Community Events
- Signage
- Art Project



Questions?



