



# Edgeley Pond + Park Stakeholder Meeting 03

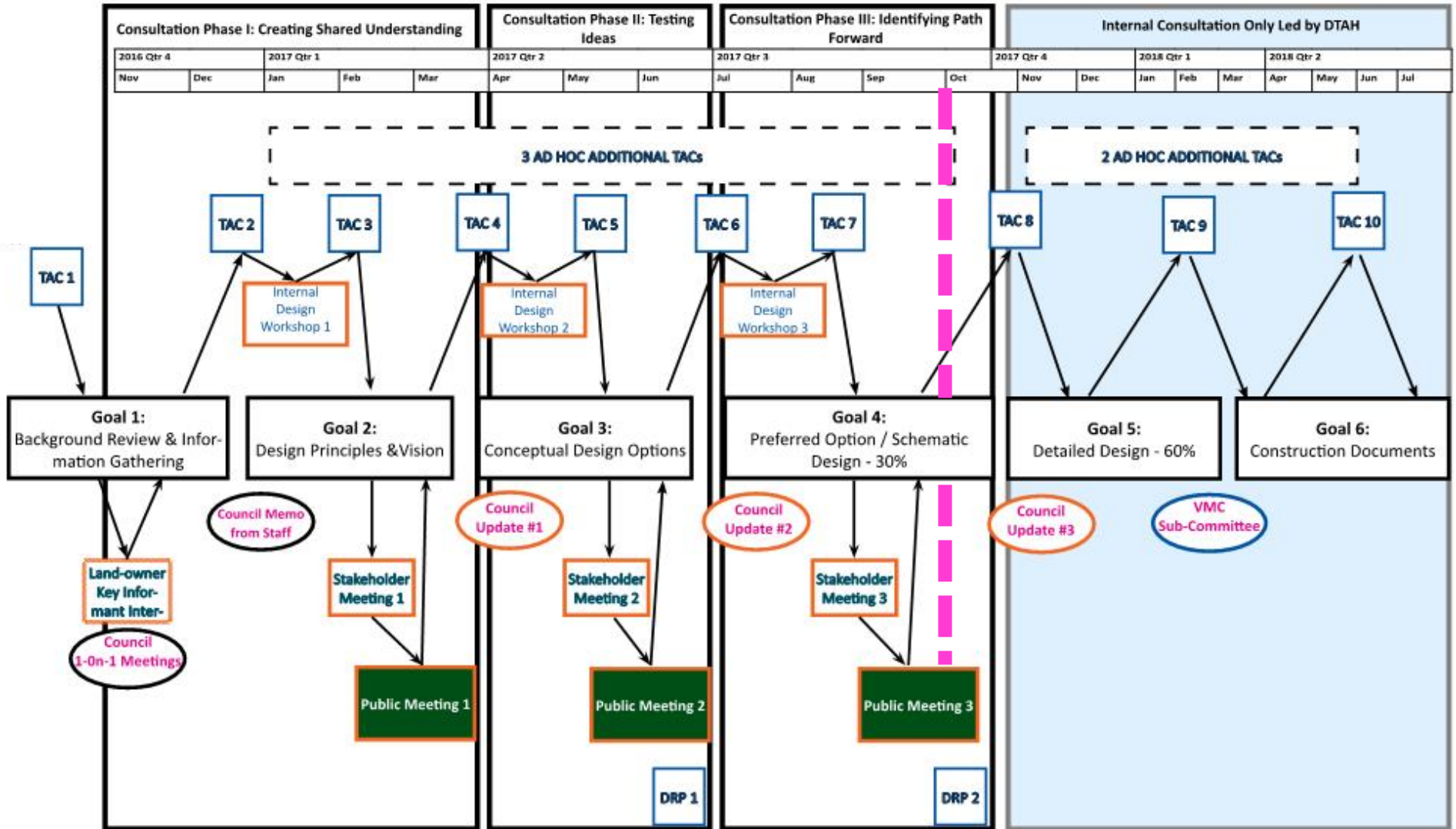
September 28, 2017

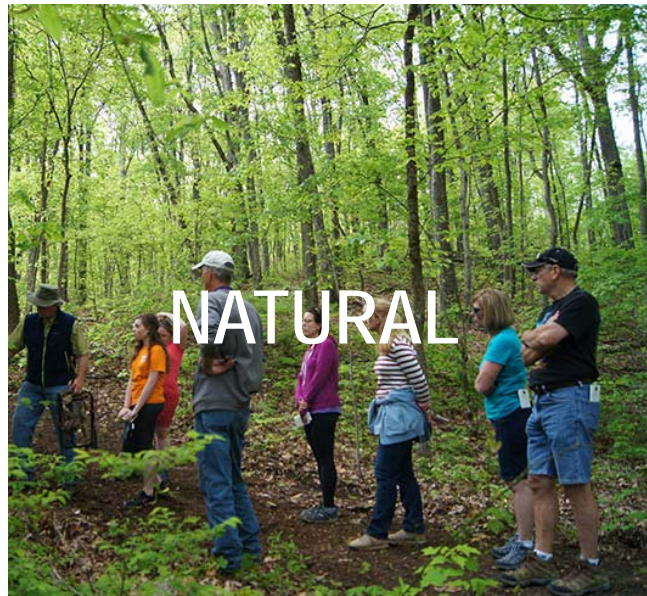
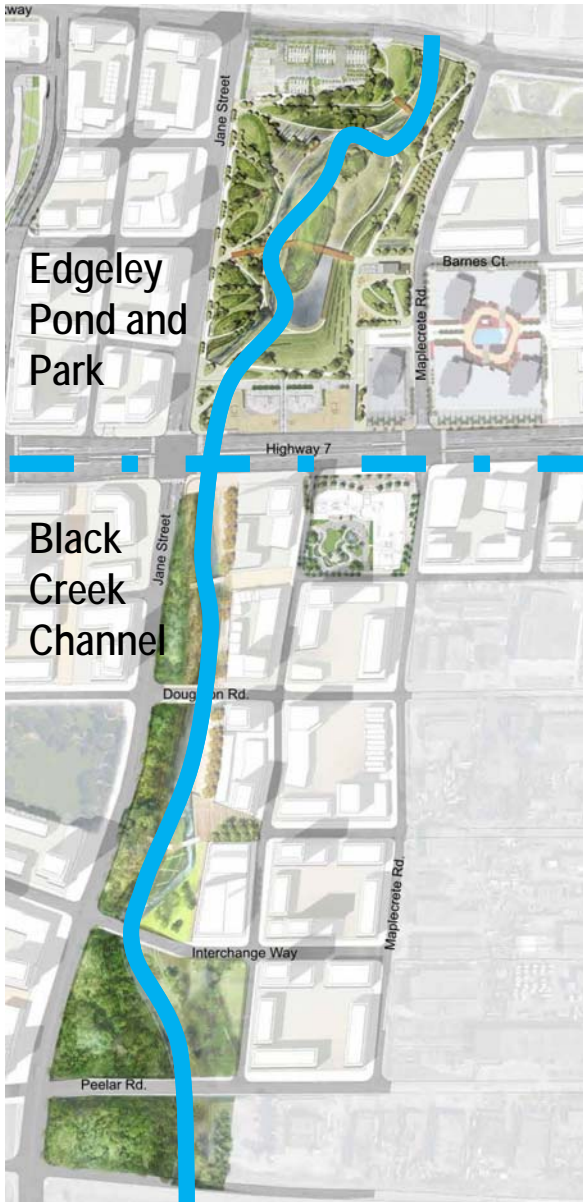
# Presentation Overview

1. Introduction
2. Overview of the Preferred Design
  1. What we have heard
  2. SWM functionality
  3. Park development and phasing
3. Discussion

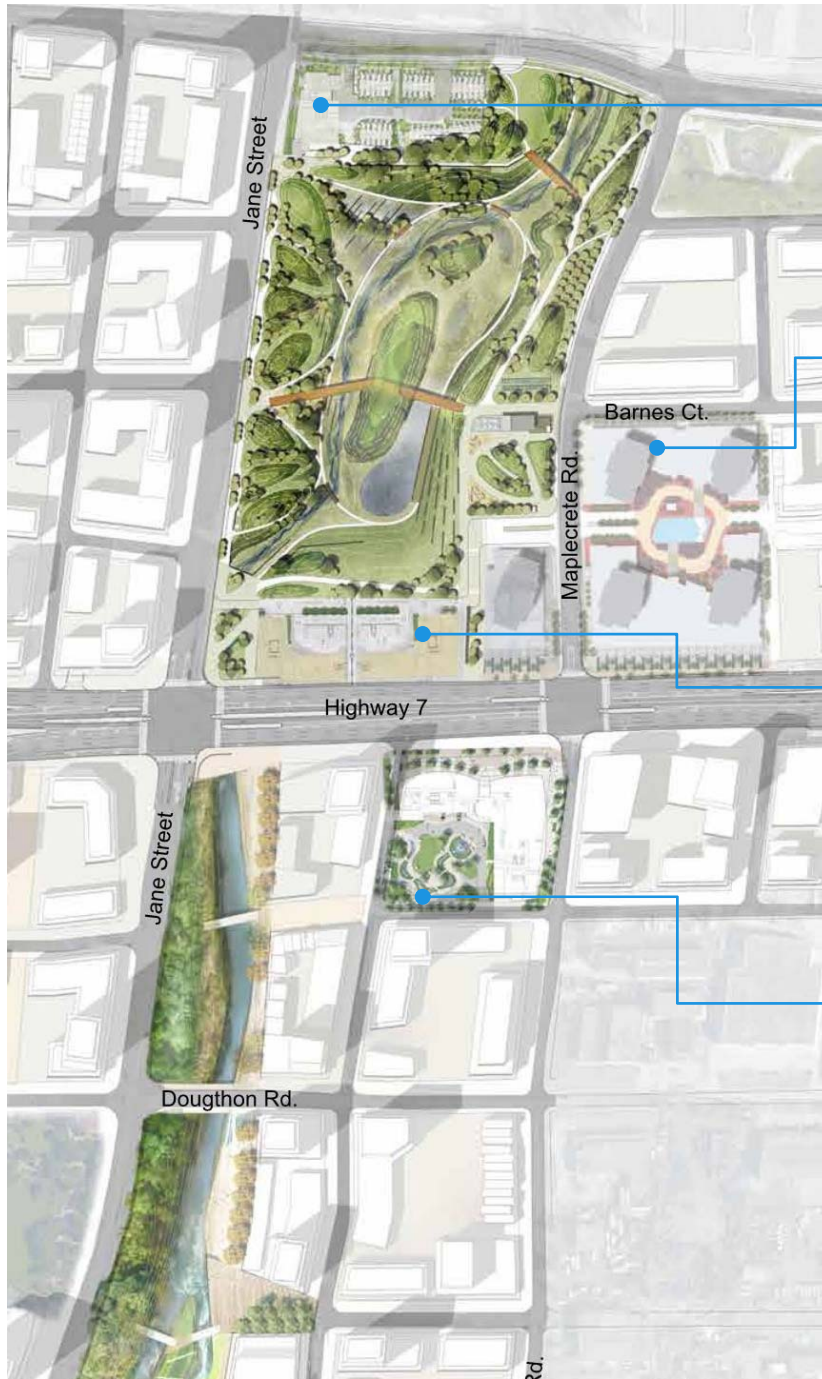
# Design Team Status Update

Q4=60% CD    2018 Q1=90% CD    Q2=Tender





## Adjacent Development Activity



### THE MET

572 residential units  
**1,104 new residents\***  
2018 (estimated)

### EXPO CITY

1,935 residential units  
**3,735 new residents\***  
Phase 1 Towers 1 + 2 – 2016  
Phase 2 Towers 3 + 4 – 2019 (estimated)  
Phase 3 Tower 5 – 2023 (estimated)

### ZZEN / MIDVALE

837 residential units  
(proposed)  
**1,615 new residents\***  
2019/2020 (estimated)

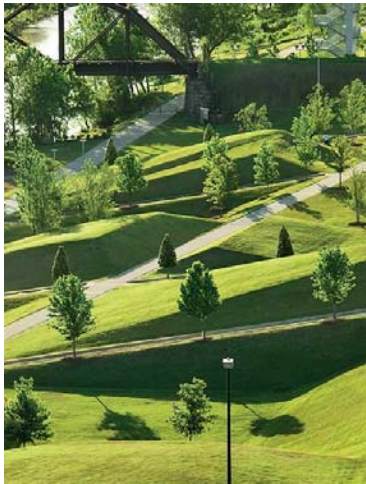
### COSMOS

833 residential units  
(proposed)  
**1,608 new residents\***  
2019/2020 (estimated)

Private development concepts shown are renderings only and subject to Council approval  
\*estimated

# Design Vision

This new open space will act as a **catalyst** for the VMC by supporting its dynamic and fast-paced transformation through innovative ecologically-sensitive stormwater management design, creation of unique spaces, and the seamless integration of parkland amenities where VMC residents and visitors can **interact, learn, play, and grow.**



# Guiding Principles

The Edgeley Park and Pond design is a dynamic and flexible framework. The design is based on the following guiding principles:

- 1. Celebrate Storm Water**
- 2. Establish Habitat and Enhance Ecology**
- 3. Create New Connections**
- 4. Activate and Create New Opportunities**
- 5. Educate and Inform**
- 6. Create an Iconic VMC Park**
- 7. Design a Park for the Future**

# Concept Development

Concept 1  
Sculpted Landforms



Concept 2  
Terraced Landforms



Concept 3  
Basins + Ecologies





# Public + Stakeholder Feedback

## Feedback:

- Concept 1 was favoured with a balance of natural and urban elements, multiple pathways + less maintenance
- Main east-west bridge should be a priority
- Skate loop was favoured
- Concern for visibility into the park and general park safety
- Parking provisions were a concern
- Stakeholders wanted a prominent feature off of Jane Street to signify park entry
- SWM functionality is essential; park features are secondary



# Design Concept

## Phase One

Construction summer 2018:

- Urban Plaza (Jane + Hwy 7)
- Iconic landforms
- Open water body
- Enhanced Black Creek and aquatic planting
- Maintain existing island and mature vegetation
- Enhanced ecology and meadow planting
- Two SWM LID's
- Walking + cycling trails
- Flexible lawn area
- **Strata park - separate contract, timing TBD**



# Design Concept

## Phase Two

- Main east-west bridge
- North bridge
- Community gardens
- Park pavilion: integrated shade structure with 4 WC + community room facility
- Public art



# Cost Reconciliation

## Cost Analysis Underway



# Stormwater Functionality

## Current limits of Regulatory Floodplain

- Hydrologic and hydraulic simulations based on current Humber River watershed models for existing and future land use
- Pond improvement scenarios include an additional consideration for future climate variability simulated by increasing flow rates by 20%



# Stormwater Functionality

## Managing SWM in the Park

- Black Creek corridor renewed along west side
- Central island and established foliage to be preserved
- Mix of hard and soft edges to reshape basin for flood control
- Water quality to be provided at all inlets by OGS and LID treatment train approach
- New outlet structure to integrate with urban plaza at northeast corner of Jane + Hwy 7



# Stormwater Functionality – Regional Water Level

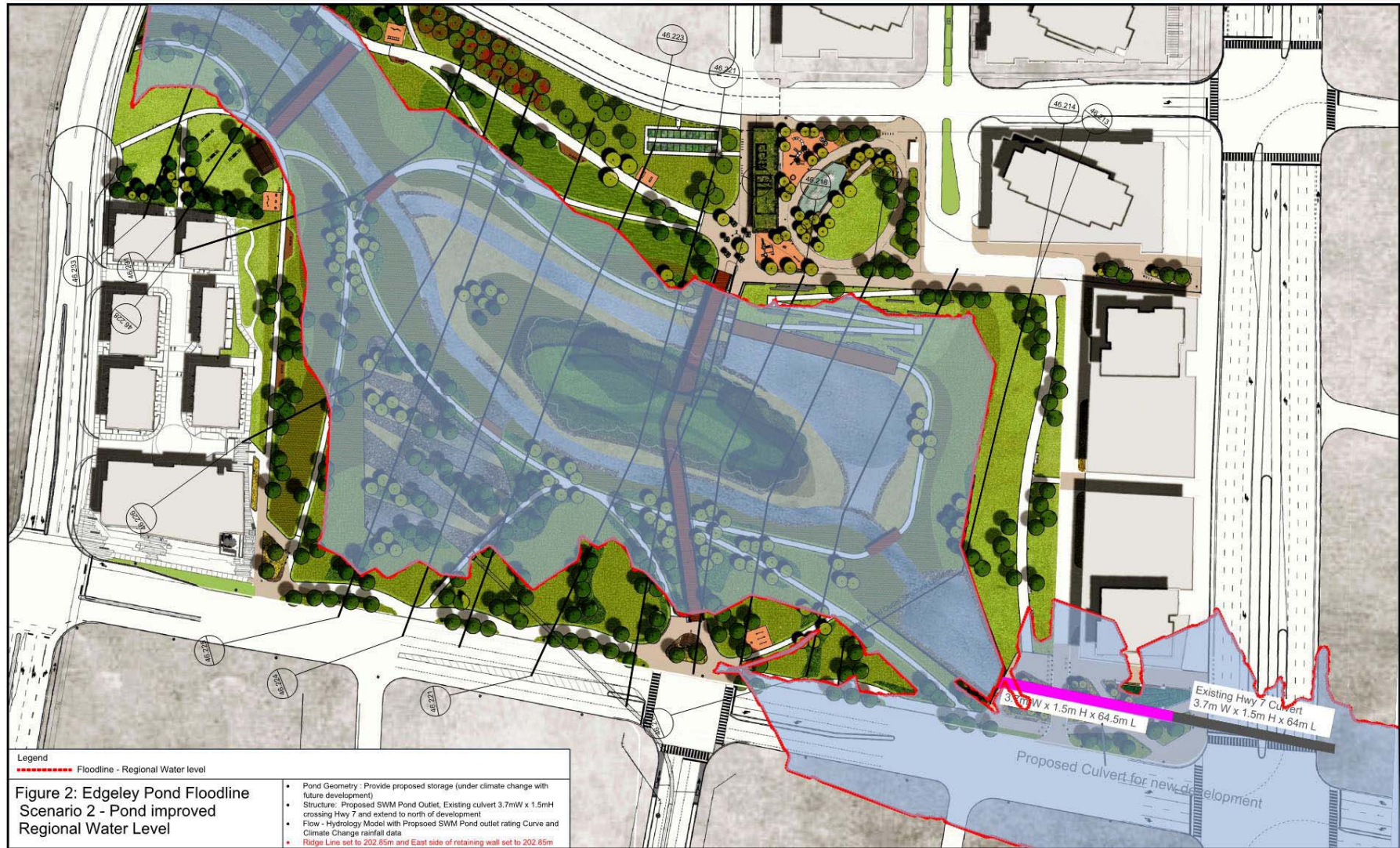
## Scenario 1 – Baseline Condition



# Stormwater Functionality – Regional Water Level

## Scenario 2 – Pond Improvements

Proposed Culvert: 3.7m W x 1.5m H x 64.5m L

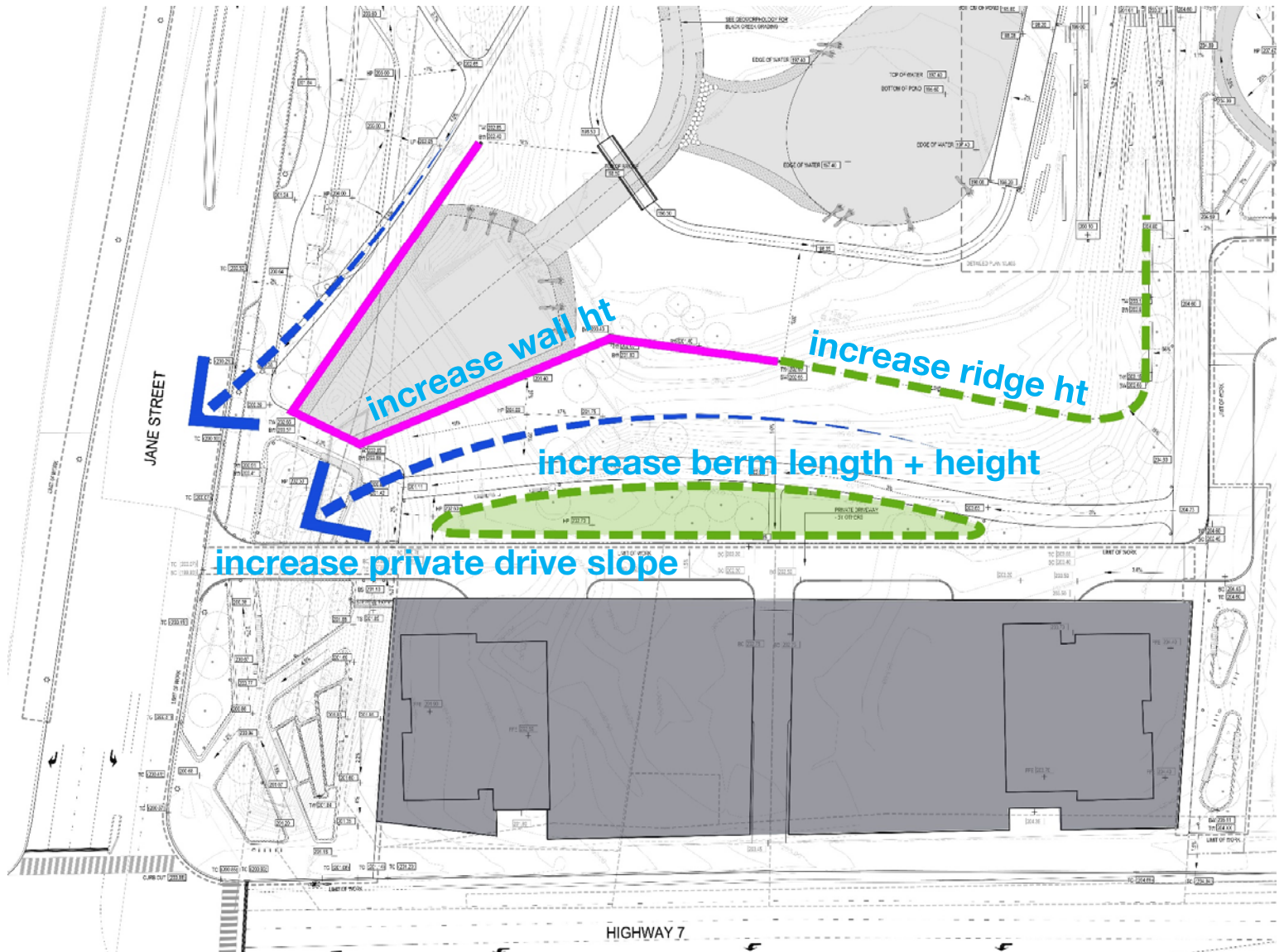




# Stormwater Functionality – Regional Water Level

## Scenario 2 – Pond Improvements

Ongoing grading design + coordination with Zzen + Midvale



# Stormwater Functionality – Regional Water Level

## Scenario 3 – Pond Improvements, Culvert Replaced

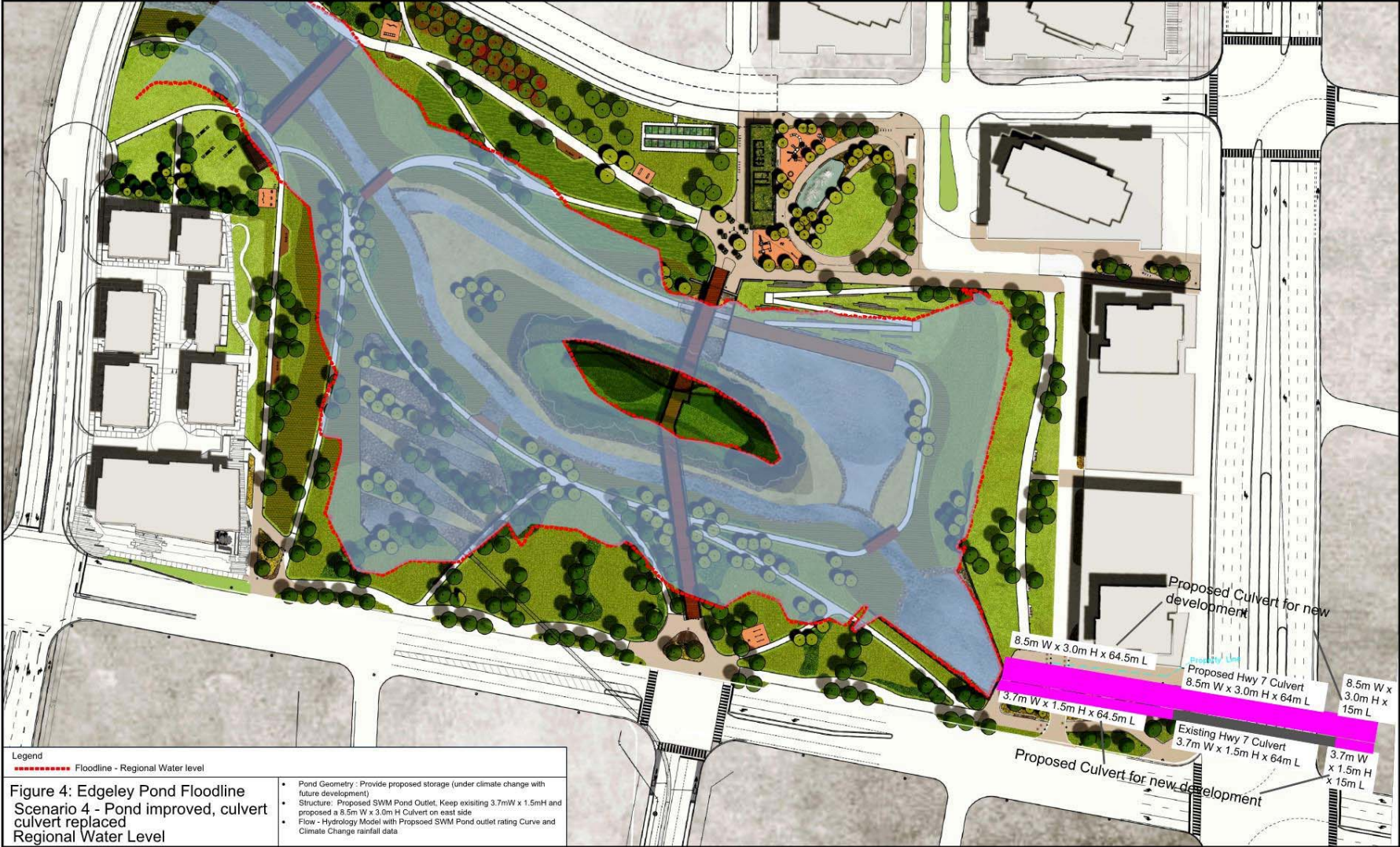
Proposed Culvert: 15m W x 3m H x 64.5m L



# Stormwater Functionality – Regional Water Level

## Scenario 4 – Pond Improvements, Culvert Replaced

Proposed Culvert: 3.7m W x 1.5m H x 64.5m L + 8.5m W x 3mH x 64.5m L



# 2 Year Storm Event

## Understanding the Influence of SWM in the Park

2 hrs after rain storm start

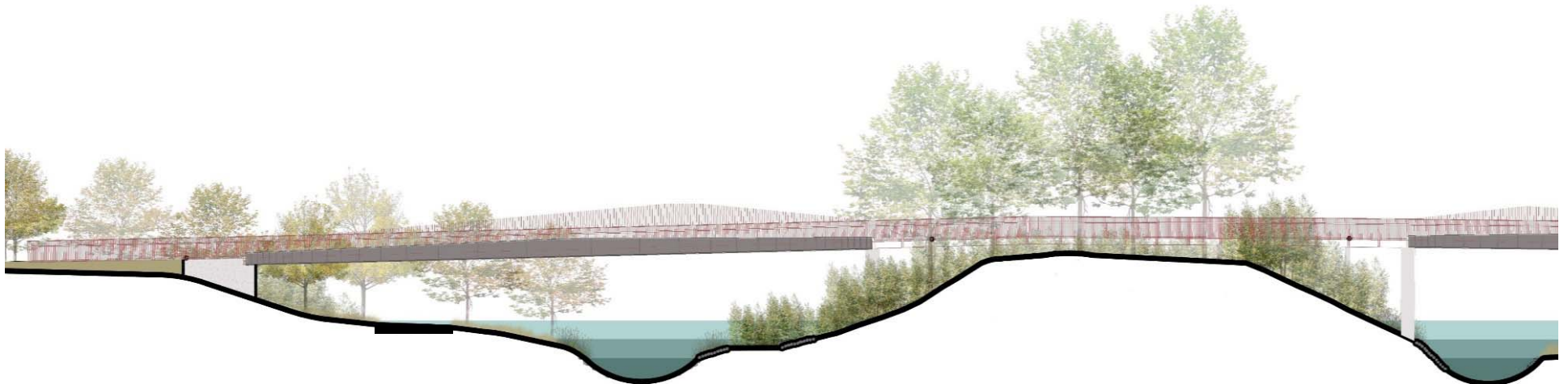
Peak – 2hr 48 min

4 hrs after rain storm start



# 2 Year Storm Event – Interim Conditions

Understanding the Influence of SWM in the Park



- Peak Water Level 2hrs 48 min After Rain Storm Starts
- Water Level 2 Hrs After Rain Storm Starts
- Base Water Level

# August 19, 2005 Storm Event

## Understanding the Influence of SWM in the Park

47 min after rain storm start

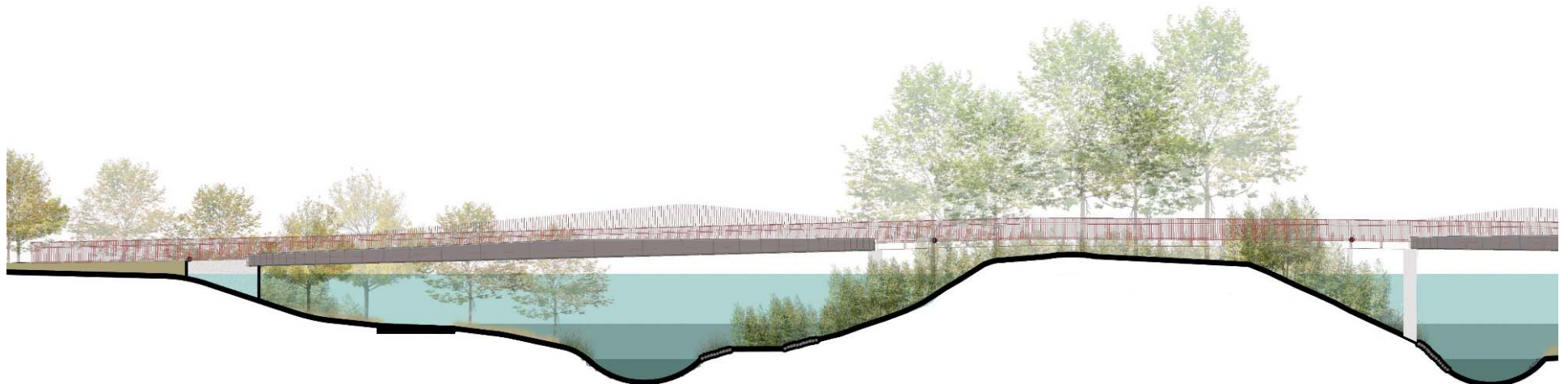
Peak – 1.5 hrs

3.5 hrs after rain storm start



# August 19, 2005 Storm Event – Interim Conditions

Understanding the Influence of SWM in the Park



- Peak Water Level 1.5 hrs After Rain Storm Starts
- Water Level 47 Min After Rain Storm Starts
- Base Water Level

# Operations + Maintenance

Anticipated level and frequency of care

- Ongoing coordination between design team and CoV
- O+M items will include:
  - LID maintenance
  - OGS maintenance
  - Flood event maintenance
  - Snow removal extents
  - Active use programming maintenance (eg play equipment, splash pad, adult exercise equipment maintenance etc.)





# Park Programming

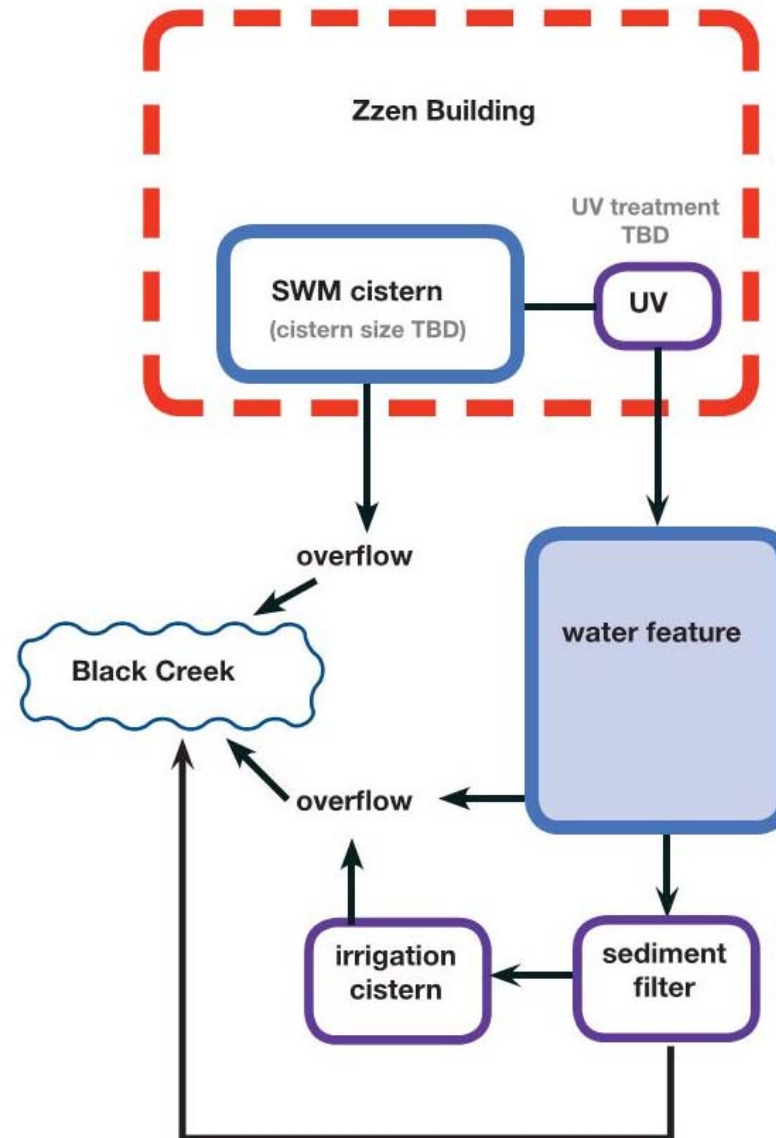
- Active use focused on strata park area
- Flexible lawn area north of Zzen / Midvale and east of The Met
- Dog off-leash area east of The Met
- Walking trails in valley
- Adult exercise equipment along MUP
- Multiple park entry points along Jane St and future Maplecrete Rd extension



# Sustainable Transitional Water Feature

Demonstrate the Relationship Between SWM + Black Creek

- Only use SWM in system, no potable water top-off
- Sustainable transitional feature will be wet or dry depending on storm events
- Feature will have both water and plant material
- Overflow connection directly to Black Creek



# Jane Street

## Urban and Unique

- Accommodate layby parking, 4m MUP and pedestrian connections to valley trails
- Sculpted landforms along Jane Street
- CPTED principles for streetscape and views into the park
- Blue Green Streets focus with street tree planting with understory, maximize permeable surfaces



# Public Art

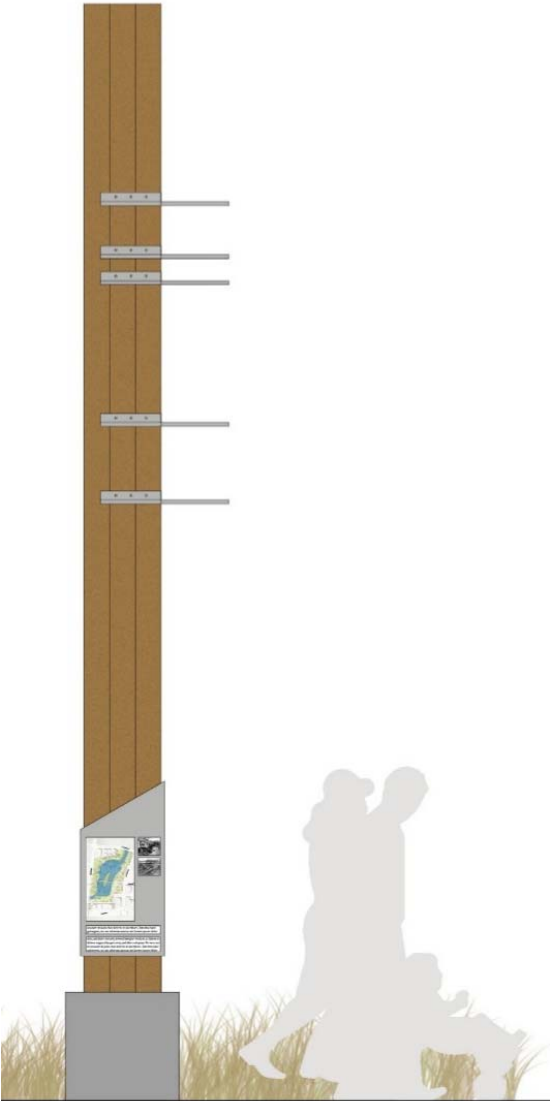
## Art Opportunities

- Key sites were identified that include a mix of very public and high traffic routes as well as art that can be discovered along less traveled valley paths.
- Several locations are within the flood zone which will heighten the dramatic setting. Damage due to flood events will need to be evaluated prior to installation.



# Education

## Tell the Black Creek Story



● Historical Flooding Pylon



● Major Signage – Lit Pylon



● Minor Signage – Pylon



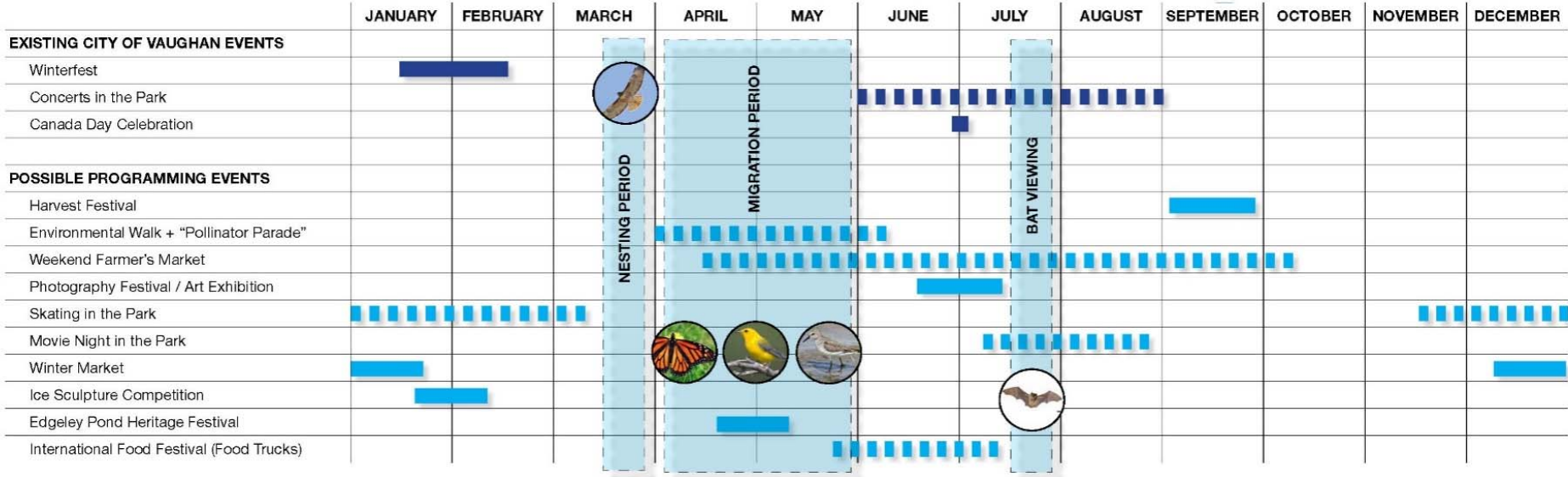
# Planting Strategy

## Ecological Clusters

- Mix of aquatic, wetland, marsh and meadow planting
- Sod is limited to flexible use areas, strata park, 1m buffers along valley trails and the amphitheater
- Native focused perennial planting in urban plazas, urban mews and strata park

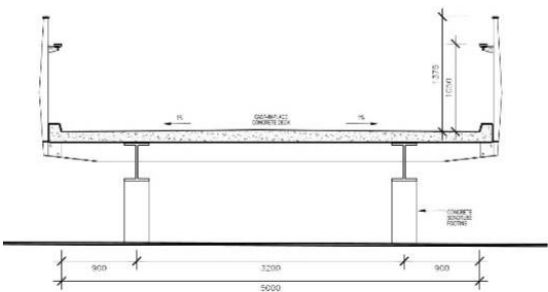


# Ecological + Event Scheduling

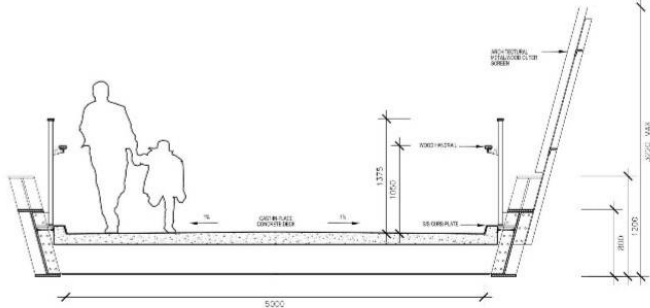


# Main Bridge

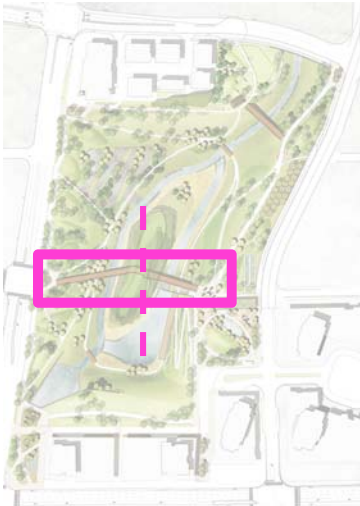
## Phase Two



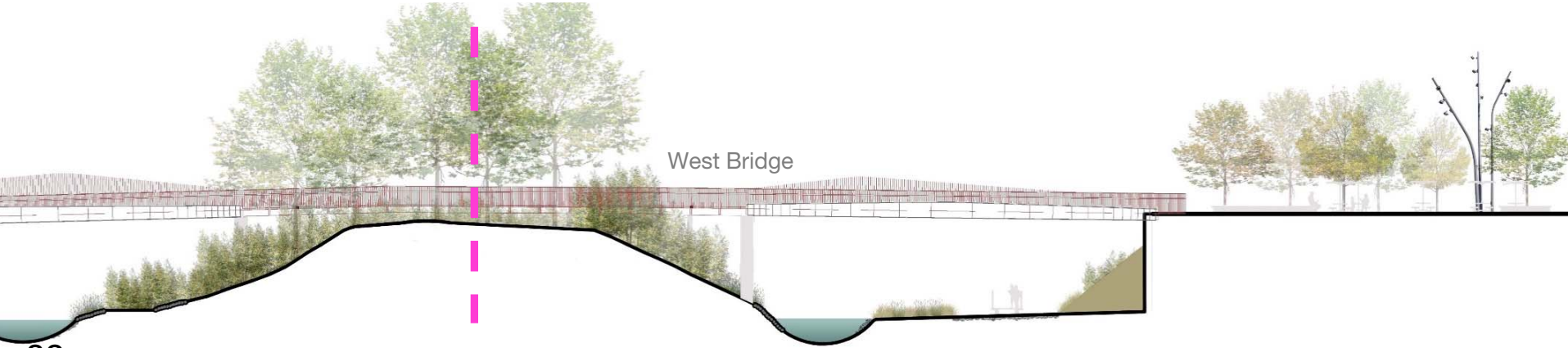
Island Section



Typical Section



East Bridge



West Bridge



# Park Pavilion



Elevation



Plan



Copper roof fascia and trim



Ivory concrete panel



Terracotta concrete panel



Metal posts and doors



Ipe wood bench top



Concrete bench base

# Circuits + Cycling



# Circulation + Lighting



# Materials + Parking



# Materials + Parking



# Shadow Impacts

## Proposed Developments

December 21



June 21



# View of Skating Loop / Pavilion

Looking Northwest



# Bird's Eye View

Looking North





# View from the Bridge

Looking Southeast



# West LID

Looking Southeast



# Urban Plaza

Looking North



# Next Steps

- Final Public Meeting September 28
- 60% Contract Document Phase 1 October – December
- VMC Sub-Committee Presentation October 18, 2017
- Ongoing Technical Advisory Committee Meetings
- 90% Contract Documents Phase 1 January – March
- Tender Phase 1 contract documents Spring 2018

# Discussion

1. What are your thoughts on the preferred design and proposed phasing for Edgeley Pond + Park?
2. Do you have any advice / information for the City and consultant team to consider in moving forward with the development of the detailed design?
3. Any other advice for the City and consultant team?