Lower Mapes Creek Restoration and 52nd Ave CSO Conveyance Projects

90% Design

Seattle Design Commission

January 17, 2013
Project Location

Rainier Beach Neighborhood
Project Objectives

• **52nd Ave CSO Reduction**
  – Build new pipe conveyance to reduce combined sewer overflows off Beer Sheva Park to regulatory limits.
  – Mandated by US EPA Consent Decree and NPDES permit.

• **Mapes Creek**
  – Improve juvenile Chinook salmon rearing and migration habitat by reconnecting Mapes Creek to Lake Washington.
  – Provide an accessible environmental amenity in the Rainier Beach neighborhood.

• **1% for the Arts**
  – Beer Sheva Park
  – 52nd Ave S Walkway
Lower Mapes Creek Project

52nd Ave S CSO Project
Key Themes:

• Enhance the upper sideslopes of the walkway berm.

• **Make the creek visible under the walkway.**

• Restore the Plaza at Henderson & 52\textsuperscript{nd} Ave S.

• **Remove fence encroachment along Henderson to provide more space for pedestrians.**

• Integrate the new creek channel within the context of Beer Sheva Park.
Increased space for walking.

Minimize surface changes to preserve opportunity for community-driven amenities.

Restore plaza to allow for future changes.

Make path 10-ft wide.
Install electrical conduits for future SDOT Fisher Ave S project.

Install GSI to allow room for future walkway.

Coordinate with SDOT on pedestrian project.
52nd Ave S/Henderson – 90% Design
S. Henderson Street – 60% Design

Optimal location for new pipes
S. Henderson Street – 90% Design
52\textsuperscript{nd} Ave S Walkway – 60\% Design

- Optimal location for new pipes
  - Follow SPD Landscape guidelines.

- Increase path width from approx 6 ft to 10 ft.
Plant Selection

**Grape Hyacinth**
*Muscari latifolium*

**Camas**
*Cannaqui quamash*

**Fragrant Thalia Daffodil**
*Narcissus 'Thalia'*

**Blue Endless Summer Hydrangea**
*Hydrangea macrophylla 'Bailmer'*

**Silver Dragon Lilyturf**
*Liriope muscari 'Silver Dragon'*
Plant Selection

Green Column Black Maple
*Acer nigrum ‘Green Column’*

Tupelo Tree
*Nyssa sylvatica*

Bonfire Sugar Maple
*Acer saccharum ‘Bonfire’*
Art in Walkway

Yeggy Studio (Michael Yegizaw)

• Examples
Plaza Restoration

- SEED wants all art pieces reinstalled.
- Artist (Mary Coss) is creating new pattern with flow. Example:
Summary of Right-of-Way Changes

• Bulbs planted in upper 52\textsuperscript{nd} Ave S berm slopes; maintainable and sustainable.
• Bulbs selected to create “blue line” that follows the creek pipe and fit art in walkway.
• Art integrated into walkway pavement.
• Plaza fully restored with new pattern that flows into walkway.
• Fence inset additional 3 feet, depends on agreement between SEED and SDOT.
• SDOT road/sidewalk requirements now preclude bioswale in 52\textsuperscript{nd} Ave S.
On-going Coordination

- **Parks**
  - Integration of project into park.

- **SDOT**
  - Fisher Place Walkway Improvements
  - Rainier Ave S signal improvements

- **SPD**
  - Security & safety requirements

- **King County Wastewater & Metro**
  - Connecting to existing pump station.
  - Maintaining trolley service.

- **Other Stakeholders**
Mapes Creek Channel – 60% Design

LANDSCAPE NOTES
1. SEE GREEN RESTORATION PLAN (1 OF 2) FOR PLANT SCHEDULE.
2. TREES TO BE PRUNED AND LIMBED UP AS THEY GROW TO PROVIDE SIGHT LINES INTO PARK.
3. TREES ARE PLANTED AT APPROXIMATE 10 YEAR POST PLANTING SIZE.
4. SEE SHEET 26 FOR IRRIGATION DRAFT ZONING PLAN.
5. SEE TESC PLAN FOR TREE REMOVAL AND TRANSPLANTING.

IRRIGATION NOTES
1. UPPER AND LOWER CHANNEL PLANTING AREAS WILL BE IRRIGATED WITH A FIXED SPRAY SYSTEM PER SEATTLE PARKS DEPARTMENT STANDARDS.
2. IRRIGATION REQUIREMENTS FOR LAWN AREAS TO BE DETERMINED BY SEATTLE PARKS DEPARTMENT.

LEGEND
- 32" MINUS CRUSHED ROCK PAVER PER SPR STD. DETAIL 32.15.43
- PRECAST REINFORCED TURF PAVER FILLED WITH 12" MINUS CRUSHED ROCK
- PRECAST REINFORCED TURF PAVER WITH LAVIN
- PEDESTRIAN BRIDGE, SEE STRUCTURAL
- UPLAND WOODY DEBRIS AND BOLLARDS TO PROVIDE HABITAT AND NUTRIENT LOAD IN THE UPLAND AREA
- CHANNEL PLANTING AREA
- REMOVE INVASIVE PLANTS AND RESTORE WITH LOW SHORELINE PLANTING (ZONE 1 PLANTS – SEE PLANT SCHEDULE)
- RESTORED PLANTING BED
- RESTORED LAWN
- 60' WETLAND BUFFER
- 100' SHORELINE HABITAT EDA LIMIT
- 200' SHORELINE DISTRICT EDA LIMIT
- LIMITS OF WORK
- TREE PROTECTION FENCE PER PARKS STANDARD PLAN
- TOP OF CHANNEL
- FIXED BOLLARD PER SPR STD DETAIL [D.3.3.1.20]
- SPECIAL GRADEING ACTIVITY AROUND EXISTING TREES
Lower Mapes Creek Channel - 90% Design
Mapes Creek Channel - 60% Design
Mapes Creek Channel – 90% Design
View into Beer Sheva Park
Looking from Seward Park Ave toward lake
Seward Park Ave into Beer Sheva Park - After
Lake Washington toward Seward Park Ave - Before
Lake Washington toward Seward Park Ave - After – 60% Design
Lake Washington toward Seward Park Ave - After – 90% Design
Art in Beer
Sheva Park
(approved by PAAC)
A Contemplative Space
Bridge Design

• **Soften profile**
• **Add wood elements creating connection with Art.**
• **Elevated crossing for fish-friendly passage.**
Signage

- Schedule constraints for these projects.
- Community-Agency partnerships
  - With Parks (Beer Sheva Park)
  - SDOT (right-of-way)
- Grant contributors do not need recognition.
- Touchstone project, rocks, etc.
- Vandalism/maintenance
Summary of Mapes Creek Changes

• Paths shaped to enhance connections and experience.
• Grading low area to create more usable space.
• Softened transitions from channel to uplands.
• Art makes visual connection between neighborhood and Lake Washington.
• Art theme integrated into bridge design.
## Project Schedule
for Mapes Creek and 52nd Ave CSO Conveyance

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Questions & Comments