Midvale Stormwater Facility
Seattle Public Utilities

Design Commission Meeting #1

August 2010

N 107th St & Midvale Ave N. Study Area

Aurora Ave

Washelli Cemetery

Study Area

N 107th St

Midvale Ave N

Northgate

Oak Lake – 1897

December 2007 Flood Photos

N 107th St between Midvale Ave N and Stone Ave N

SE corner of Midvale & N 107t St

December 2007 Flood Photos

Intersection of Midvale & N 107th St

Daylight basement apartments
On Midvale south of N 107th St
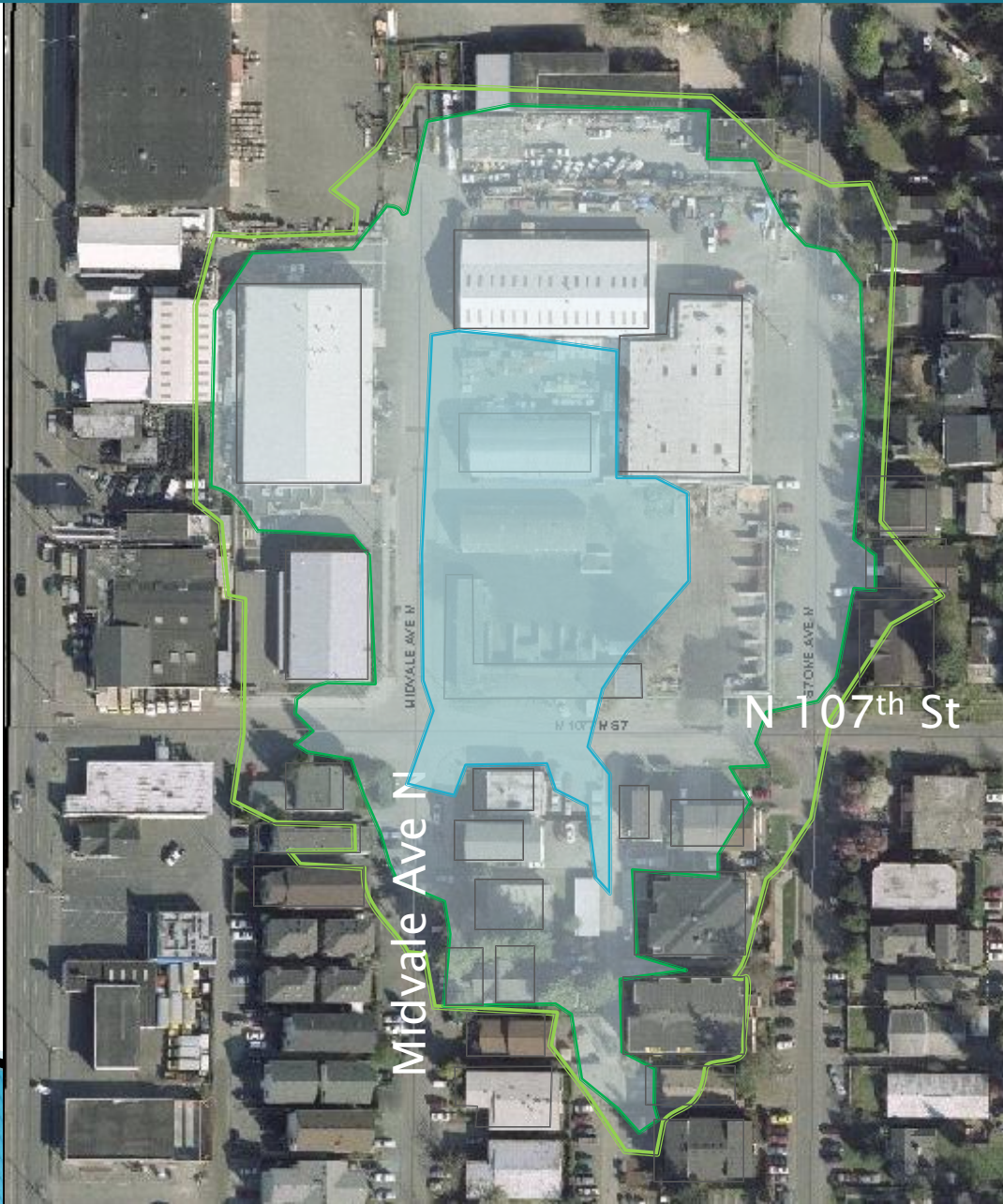
December 2007 Flood Photos

Condo parking garage off alley between Stone & Midvale south of N 107th St

Alley between Stone & Midvale South of N 107th St

Existing Conditions – Flood Prediction Map

Storm

10-yr
25-yr
Dec 07

Existing Building at Proposed Pond Site

Existing Building at Proposed Pond Site

01/25/2010

Initial Concept for Midvale Stormwater Facility

Existing storm drain

Trees & sidewalk

2:1 slope

Midvale Ave N

Stone Ave N

Stormwater Facility
3 – 3.5 million gallons

Inlet/ outlet for big storms

Flat area grass w/ shrubs

Sloped area w/ shrubs

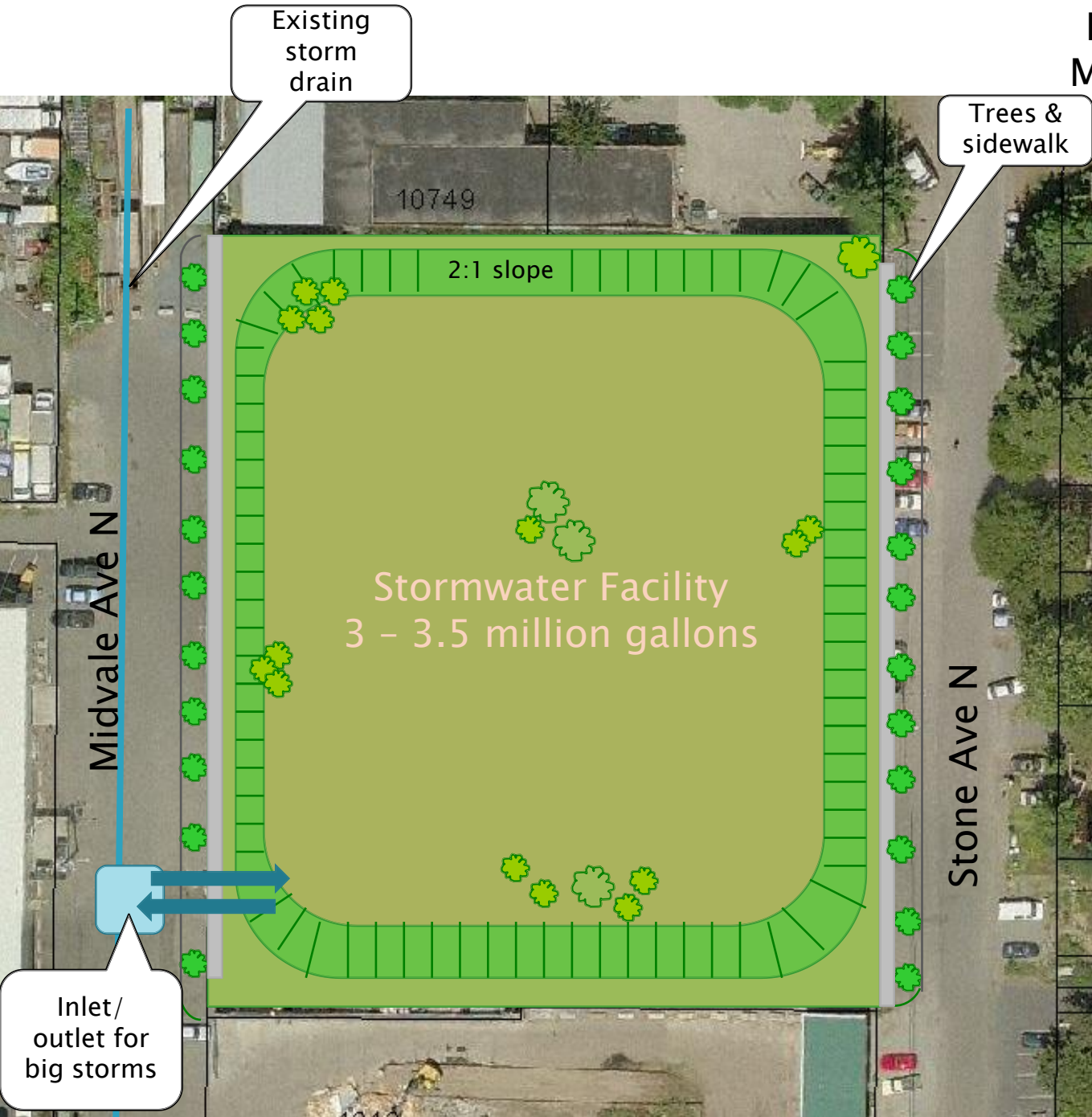Function: 2–3x / decade, facility will fill with up to 7–ft of water.

Ashworth Pond– existing detention pond located ½ mile north

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Trees & sidewalk

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10749

Midvale Ave N

Stone Ave N

Stormwater Facility
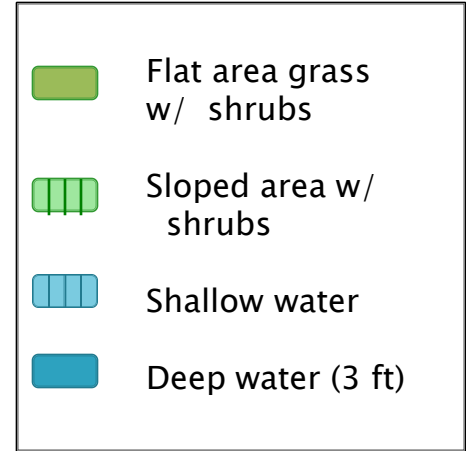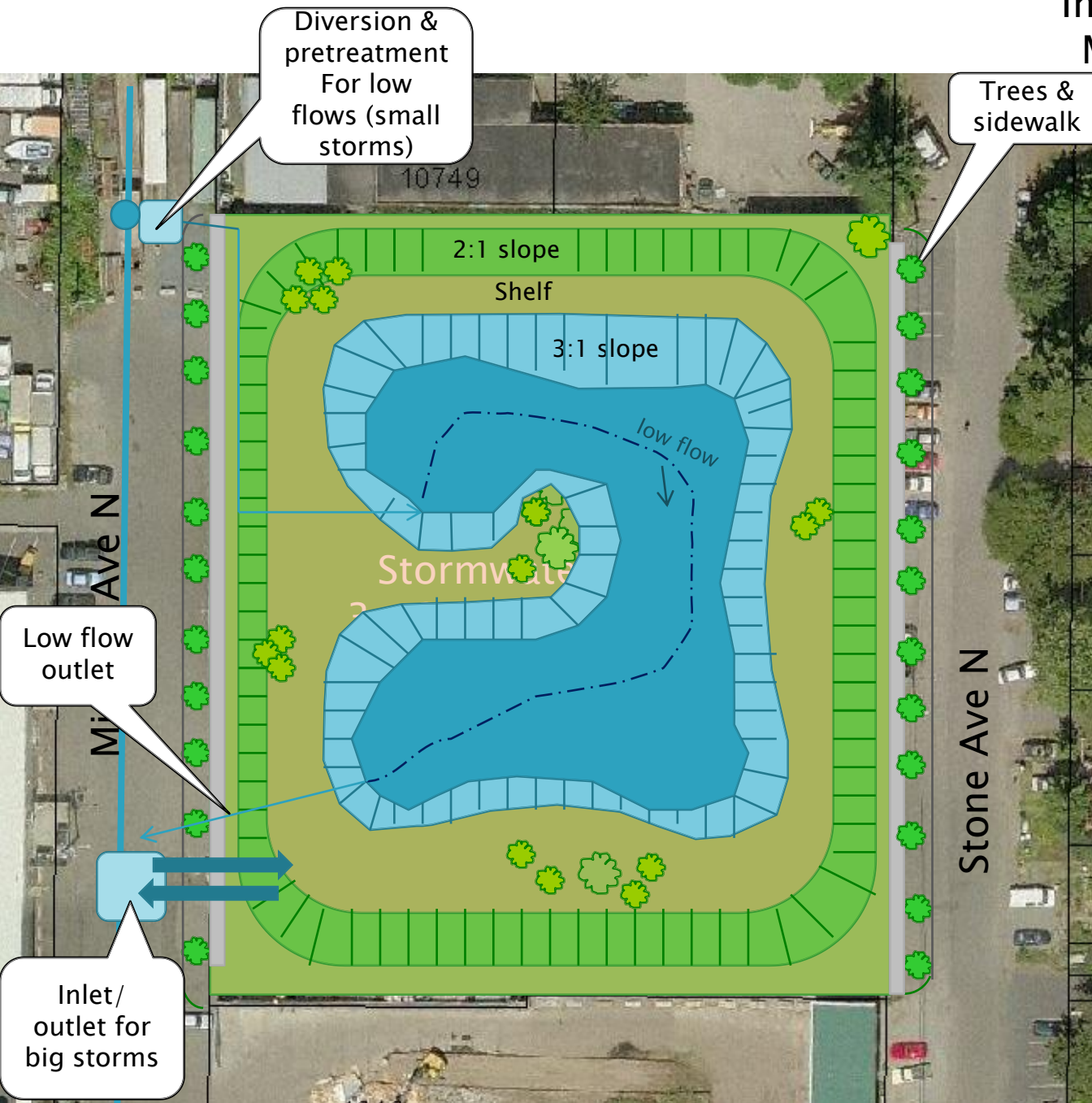3 – 3.5 million gallons

Inlet/ outlet for big storms

Flat area grass w/ shrubs

Sloped area w/ shrubs

Function: ~1–2x / decade, facility will fill with up to 7-ft of water.

Holds flood water up to the "25-year storm"

Improved Concept for Midvale Stormwater Facility

Diversion & pretreatment For low flows (small storms)

Trees & sidewalk

10749

2:1 slope

Shelf

3:1 slope

low flow

Stormwater

Low flow outlet

Mi

Ave N

Stone Ave N

Inlet/ outlet for big storms

Flat area grass w/ shrubs

Sloped area w/ shrubs

Shallow water

Deep water (3 ft)

Function: ~1–2x / decade, facility will fill with up to 7-ft of water.

Facility will provide water quality treatment for most storm events.

The stormwater pond could look something like this.

Midvale Detention Pond: conceptual schedule

Task	1Q 10	2Q 10	3Q 10	4Q 10	1Q 11	2Q 11	3Q 11	4Q 11
Property Purchase		▮	▮					
Design			▬▬▬▬					
Advertise/ award					▬			
Construction						▬▬▬▬		
Closeout								▮

Budget (Jan 2010)

Property	$5M
Design	$300K
Construction (SPU)	$200K
Contractor	$3M
Contingency	$1M
Total	$9.8M

Challenges

- Community view: Amenity or hazard?
- Balance of detention and open space
- Fencing
- Adjacency to Aurora Ave and informal "transfer station"

We don't want this look.