

Thornton Creek Confluence

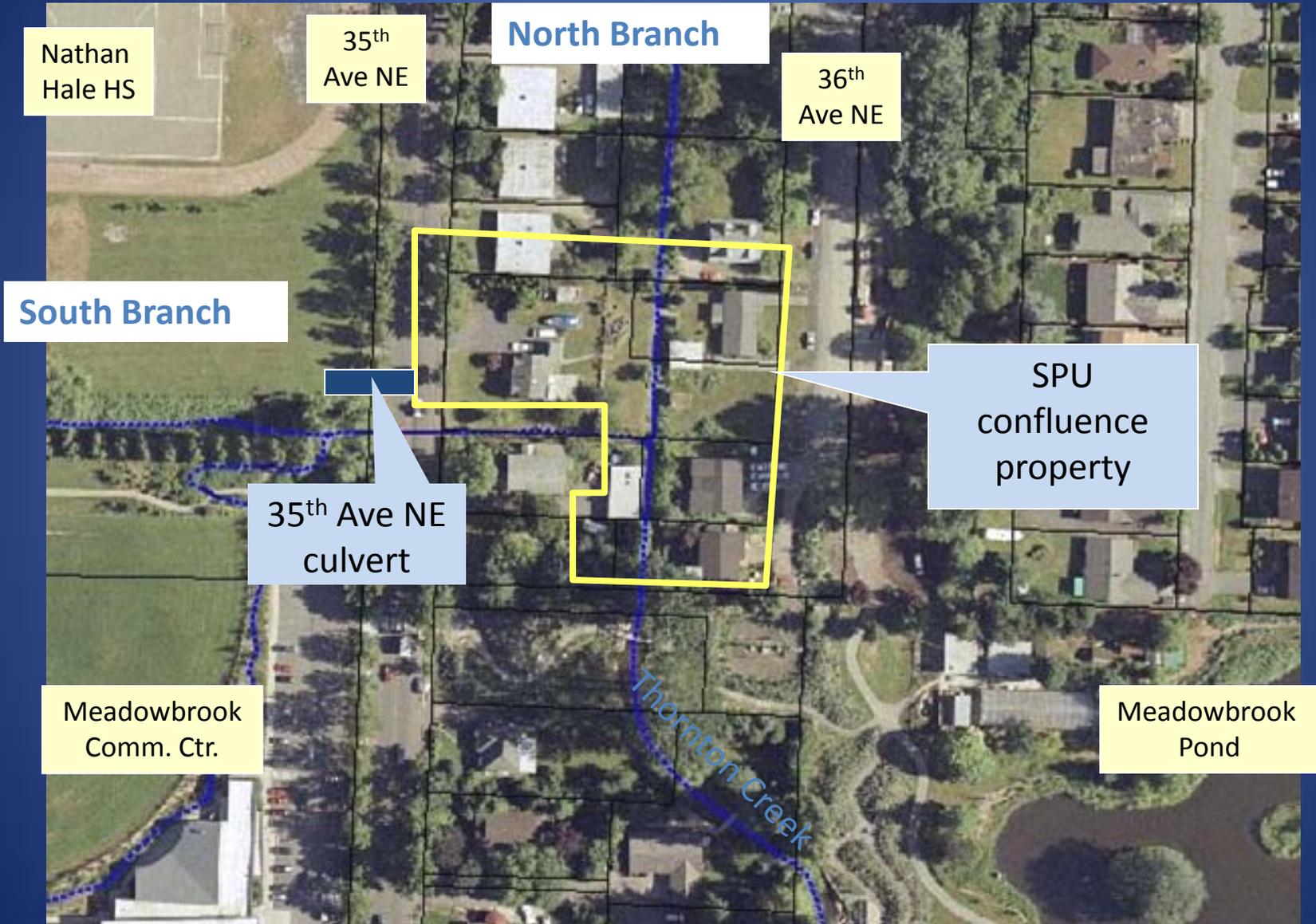


Public Meeting August 2, 2012

Agenda

- Welcome and Introductions
- Project Overview
- 60% Design
- Discussion: What are your thoughts?
- Next Steps

Project Site



There are a number of problems
throughout the Thornton Creek Basin

Such as...

Property Flooding



Street Flooding/Closures



↑
36th Ave NE

35th Ave NE



Utilities and road infrastructure at risk due to flooding



Stormwater Capacity is Exceeded



Landslides and Erosion



Many areas with little habitat value



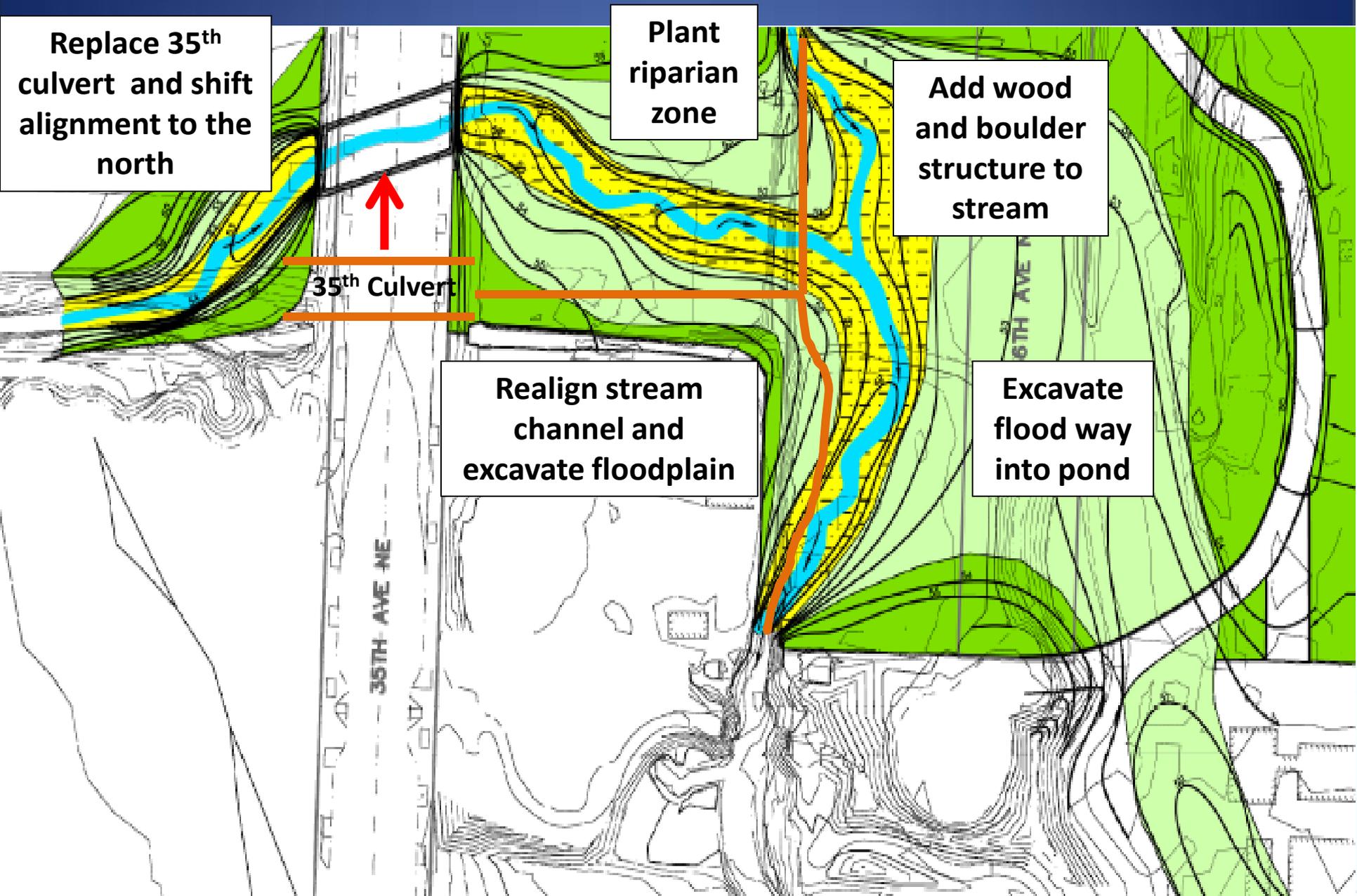
Confluence Project Objectives



- Meet drainage service levels for 35th Ave NE
- Remove flow choke point to address upstream flooding.
- Reduce downstream peak flow velocities.
- Improve instream spawning and rearing habitat.
- Improve water quality.



Project Overview Confluence Area



Replace 35th
culvert and shift
alignment to the
north

Plant
riparian
zone

Add wood
and boulder
structure to
stream

35th Culvert

Realign stream
channel and
excavate floodplain

Excavate
flood way
into pond

35TH AVE NE

6TH AVE NE

View 1: 35th Avenue Looking East Over Thornton Creek Floodplain



current conditions

Thornton Creek Confluence - Design Renderings
August 2, 2012 #09029



View 1: 35th Avenue Looking East Over Thornton Creek Floodplain



Thornton Creek Confluence - Design Renderings
August 2, 2012 #09029

View 2: 36th Avenue Looking South to Meadowbrook Pond



current conditions

Thornton Creek Confluence - Design Renderings
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Natural Systems Design



View 2: 36th Avenue Looking South to Meadowbrook Pond



Thornton Creek Confluence - Design Renderings
August 2, 2012 #09029



SVR

Project Schedule

July 2012	60% project design released
August 2, 2012	60% design public meeting
August 4, 2012	Drop- in question/answer session
August 17, 2012	Deadline for comments on 60% design
September 2012	SEPA Checklist released for public review
January 2013	90% project design released
Jan-Feb 2013	Public meeting on 90% design (proposed final)
Early Summer 2013	Project out for construction bid
Summer 2013	Project construction starts
Winter 2013	Construction completed

60% Design

Thornton Creek Confluence Improvement Project

LEGEND

- HYPORHEIC GRAVEL LENSE
- POOL
- ARTICULATED CONCRETE

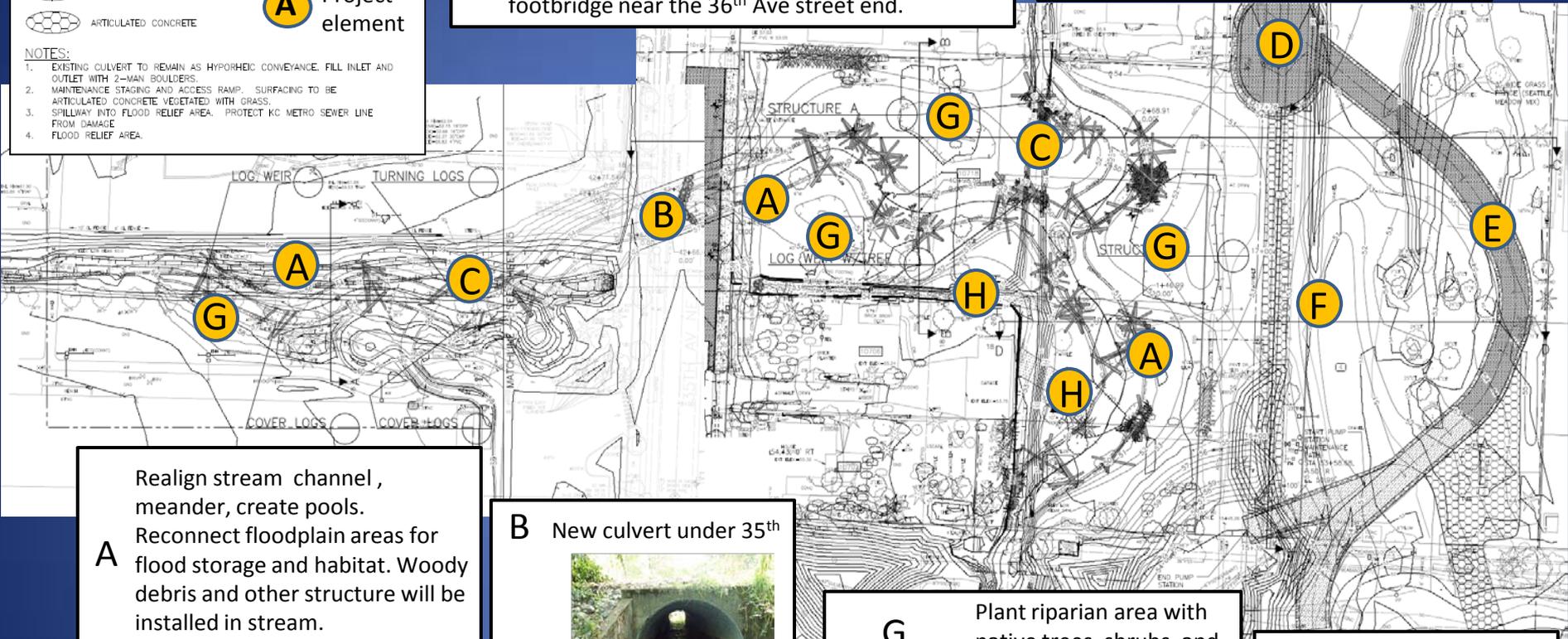
NOTES:

- EXISTING CULVERT TO REMAIN AS HYPORHEIC CONVEYANCE. FILL INLET AND OUTLET WITH 2-MAN BOULDERS.
- MAINTENANCE STAGING AND ACCESS RAMP. SURFACING TO BE ARTICULATED CONCRETE VEGETATED WITH GRASS.
- SPILLWAY INTO FLOOD RELIEF AREA. PROTECT KC METRO SEWER LINE FROM DAMAGE.
- FLOOD RELIEF AREA.

A Project element

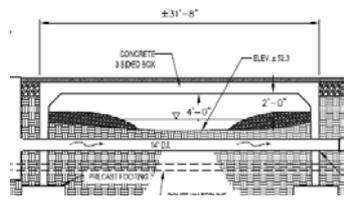
C Pedestrian bridges will be removed and will not be replaced. This includes a dead end bridge adjacent to the high school field and the small footbridge near the 36th Ave street end.

D Shorten street and create turn around.
E Create new access path for people and maintenance vehicles.



A Realign stream channel, meander, create pools. Reconnect floodplain areas for flood storage and habitat. Woody debris and other structure will be installed in stream.

B New culvert under 35th



G Plant riparian area with native trees, shrubs, and ground cover mix. Conifers preferred. Several planting palettes will be used pending elevation and soil conditions. Plantings will consider safety/sightlines.



F Create new high-flow floodway to connect with Meadowbrook Pond.

H Recreate surface-subsurface hydrologic (e.g., hyporheic) connections

Discussion: What are your thoughts?

Next Steps

- **August 4, 2012:** onsite drop-in question/answer session
- **August 17, 2012:** Deadline for public comments on 60% design
- **September 2012:** SEPA Checklist released for public review and comment
- **January 2013:** 90% project design released

Thank you!

www.seattle.gov/util/meadowbrook

Sign up for the project mailing list:

www.seattle.gov/lists/meadowbrook.htm