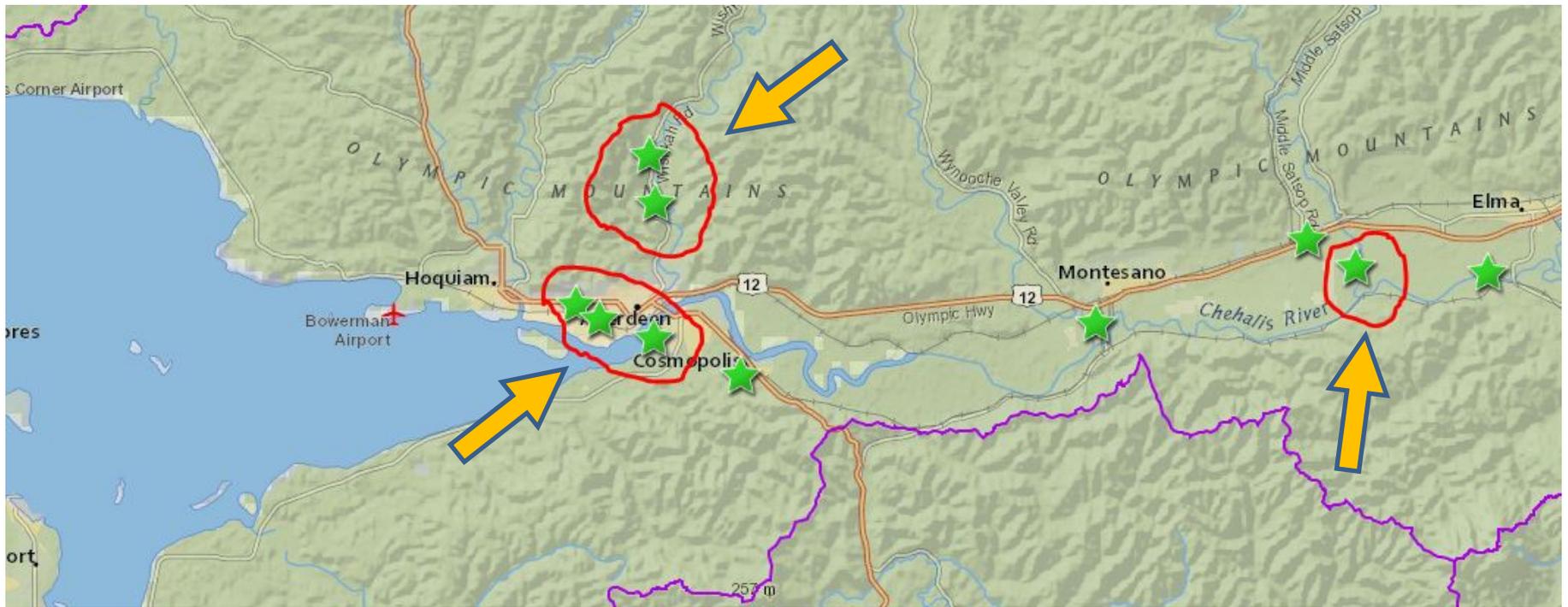


PRESENTATION #5

Wishkah Road Floodwall (GHC)



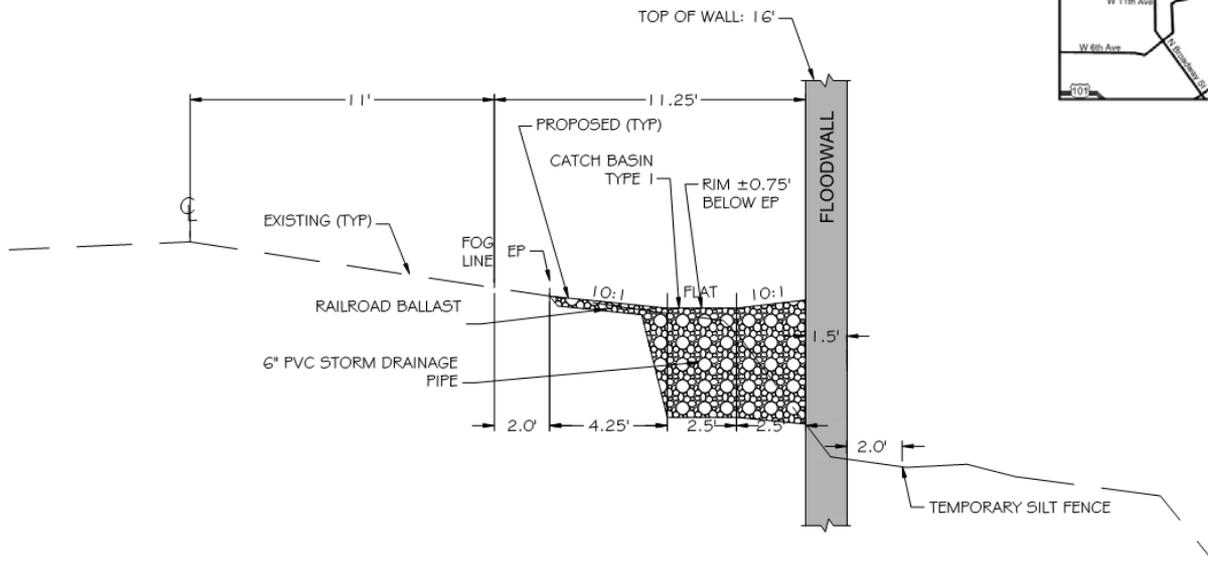
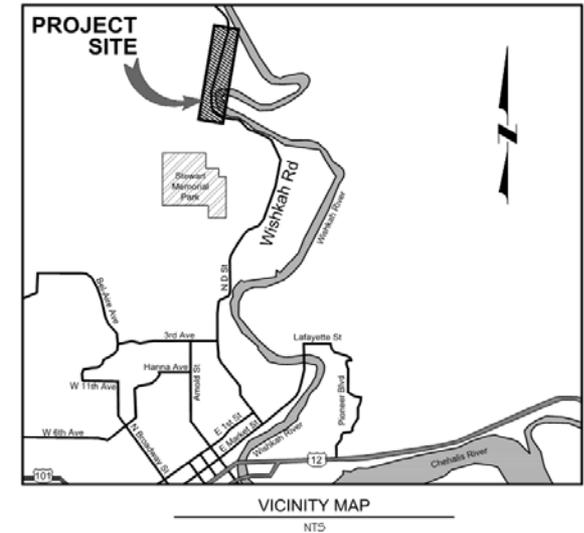
www.ezview.wa.gov/graysharborfloodrelief

www.ezview.wa.gov/site/alias__1492/34489/local_projects.aspx

Wishkah Road Floodwall

Project Description/Overview:

- Approximately 0.5 miles for Sheet Piling
- Replacement of 6 culverts with Tide Gates
- Removable Flood Gates at 4 locations
- Cleanup & Habitat Improvements
- Engineers Estimate ±\$5 Million



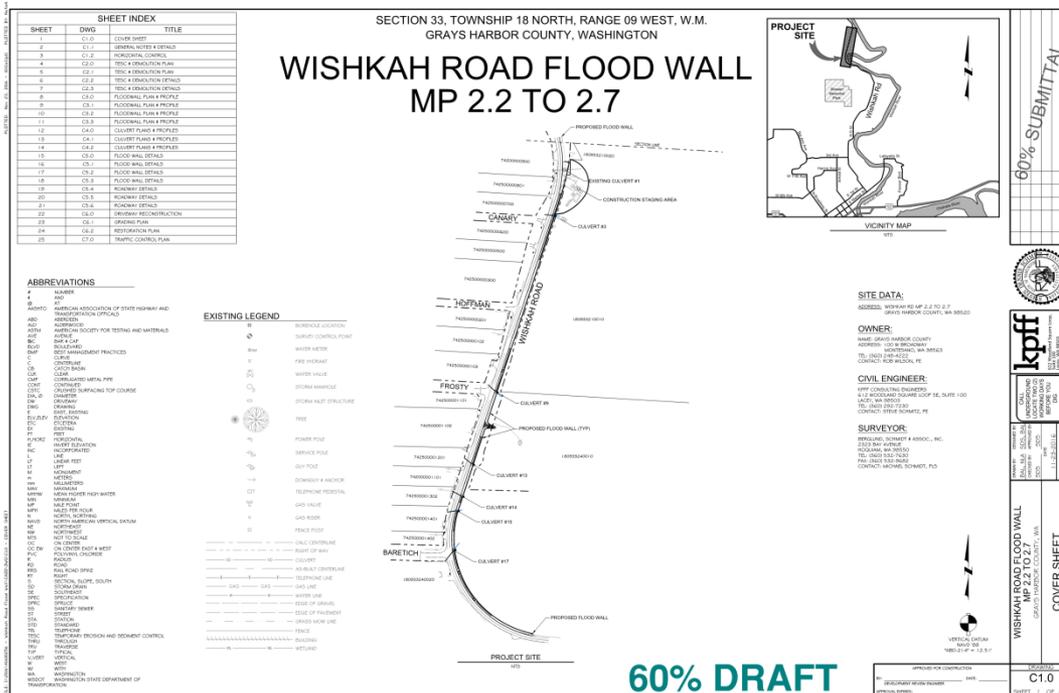
12-06-2016

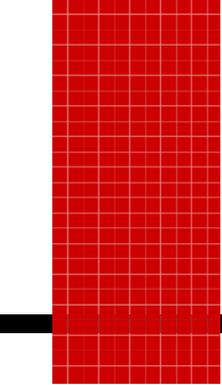
Lower Basin Share Session

Current Status: On - Track

Completed Activities:

- 60 % Design Submittal Completed
- Draft JARPA, HPA & Biological Assessments read for team review
- Coordination with Depts. of Ecology and Fish & Wildlife Complete
- On Schedule for Summer 2017 Construction





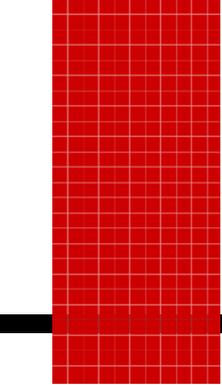
Upcoming Planned Activities:

Permitting:

- JARPA Permit Submission
- Hydraulic Project Approval Submission
- Shorelines & Critical Areas Application Submission
- Biological Assessment Submission

Engineering:

- 60% Plans, Specifications & Engineer's Estimates - Review w/ GHC
- Incorporation of Permit Approval Requirements & Comments
- Completion of Construction Ready Plans, Specs, and Engineer's Estimate
- Project Bid Manual Assembly, Bidding Support, and Construction Support



Controversies and/or Complexities:

Permitting:

- Proximity to Wishkah River and Category 1 Wetlands
- Determination that drainage to culverts where not fish bearing
- Mitigation and Clean Up strategy

Engineering:

- Structural design of the sheet pile wall in very poor soils
- Design of the South Wall Termination to Existing Concrete Retaining Wall
- Check Valve and Self-Regulating Tide gate Design
- Removable Flood Gate Design and Alternate Analysis
- 8-12 Week Lead time required for the necessary sheets to be milled and shipped to the site

Further Information:



Grays Harbor County Public Works
Rob Wilson, County Engineer – 360 249-4222,
rwilson@co.grays-harbor.wa.us