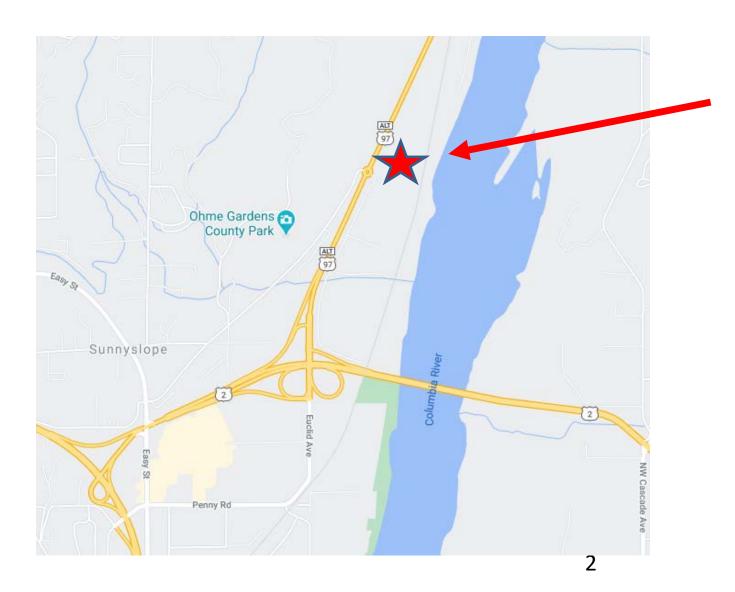
Ohme Substation Update

Budgetary Board Action Request Sept. 8, 2020

Some figures have been rounded for discussion throughout



Substation Purpose



Ohme Project Site

Purpose:

- 1. Replaces Olds Station Substation
- Increases capacity by 28MW



Budget Request

- Design and procurement are finalized
- Project estimate is re-informed and expected to exceed authorization level
- Revised budget increased 17% or \$1.04M.
- Requesting motion to increase project budget



Increase Breakdown

- Construction contract increase estimated \$945k
 - Increase in grounding system due to soil resistance
 - Higher than estimate escalation from 2012-2015 contracts
 - Increase in construction labor for double bank

• Increase in staff labor to support \$73k

• Temporary power and staging \$23k



Project Budget Background

• Moved from single to double bank in March 2019

• Additional property purchased to accommodate in April 2019

• Budget estimate was then increased from \$3.7M to \$5.9M.

• Revised project estimated at \$7M

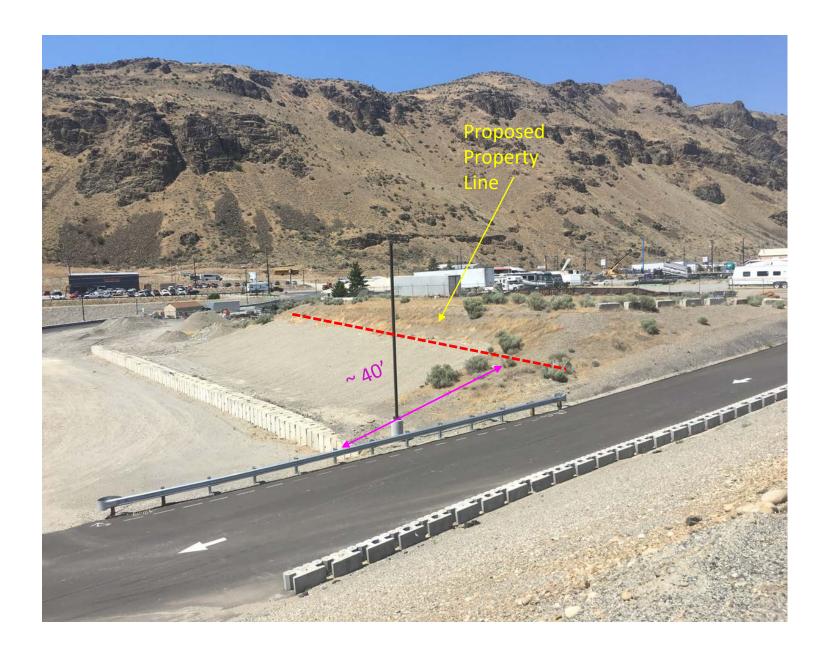




- Meets current NESC & IEEE Standards
- Improved access for mobile substation
- Allows substation capacity to double from 28MW to 56MW within same footprint
- Reduces need for future substation properties







Site Increased April 2019



Ohme Substation Status





Aug. 27, 2020



Construction Schedule

- Permitting or CUP expected Sept. 11
- Construction contract award Sept. 28 or before
- Notice to proceed follows 10 days from award
- Foundations 10 weeks from award (Thanksgiving)
- End of year concrete work complete by Dec. 18
- Swtichgear March 15, 2021
- Construction complete May
- Commission, testing and energize July



Acceleration Gains

Original plan had Ohme energize 2020

- New standard drove significant changes
- Power transformer multiple unit contract
- General arrangement complete and property purchased
- Lessons learned on critical path items
- All contracts, cost estimates, designs, etc. are repeatable



Lessons Learned Double Bank

- Construction contract nearly double
- Increases in engineering
- Economy of scale closer to 20%
- Future station evaluated only if capacity required



Motion Requested

Proposed motion: To increase the Total Project Budget for the Ohme Substation Project (DS170006) by \$1,040,000 for a revised Total Project Budget of \$6,969,053. The additional project expense is not anticipated until 2021, thus no change to the 2020 Distribution capital budget is required.

Possible move this motion to Sept. 21st without project delay

Questions?