#### Chelan & Leavenworth Substation Property Planning

#### Board of Commission Update

March 20, 2017



# Today's Agenda

- Provide update on Chelan and Leavenworth since the March 6<sup>th</sup> Board update
- Share feedback from the Community Focus Group
- Review plan to proceed on both Chelan and Leavenworth

Requesting approval plan to proceed



# Chelan North Shore Update

- March 6<sup>th</sup> Board Meeting
  - Reviewed costs drivers above the typical (~ \$5M Substation)
    - Additional transmission lines
    - Additional overhead distribution lines
    - Higher overall construction costs (\$12.3M to \$9.1M)
  - Community concerns about increased amount of overhead wires
    - Adding height to transmission lines (taller poles)
    - Adding distribution under-build on transmission (more wires)
    - Obstructing views of Lake Chelan
  - Customer advocating for underground options and options for paying for the added cost (surcharge and Local Utility District options)

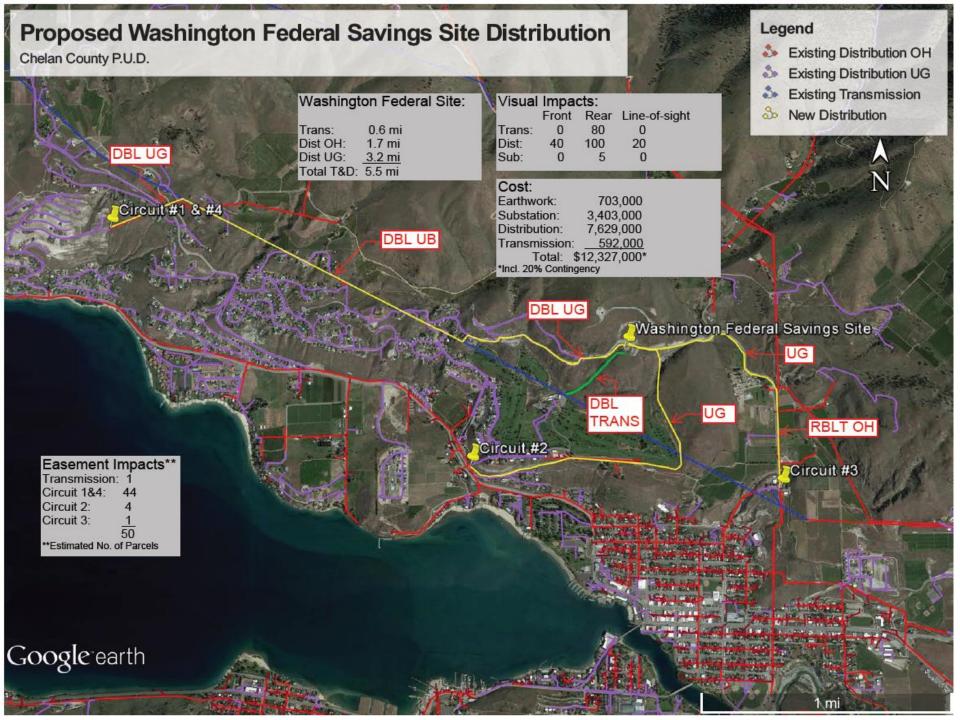


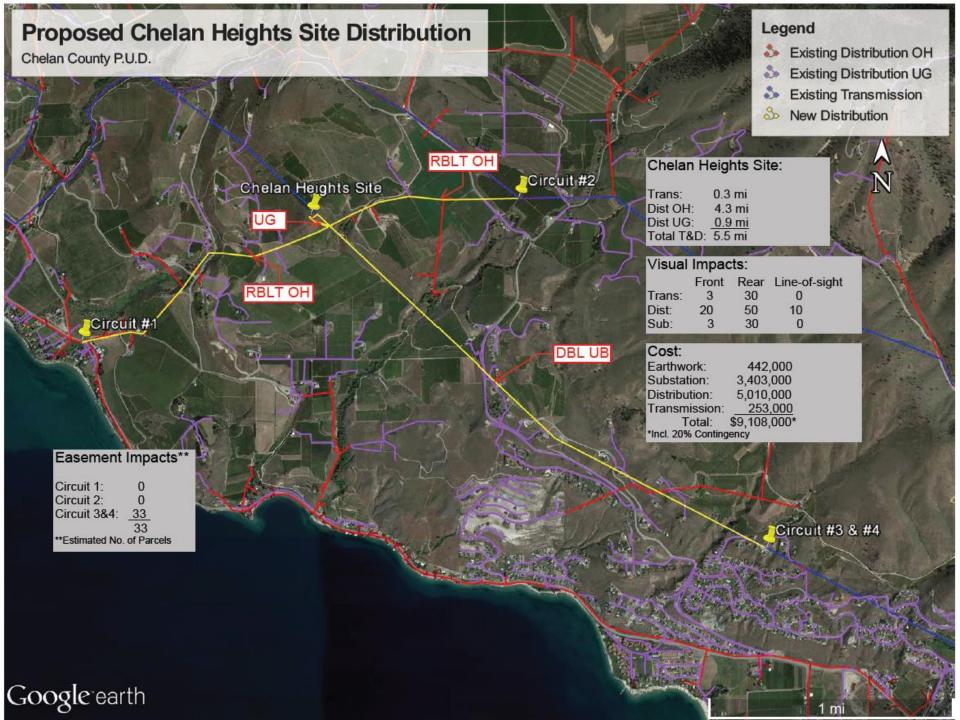
### Chelan North Shore Update

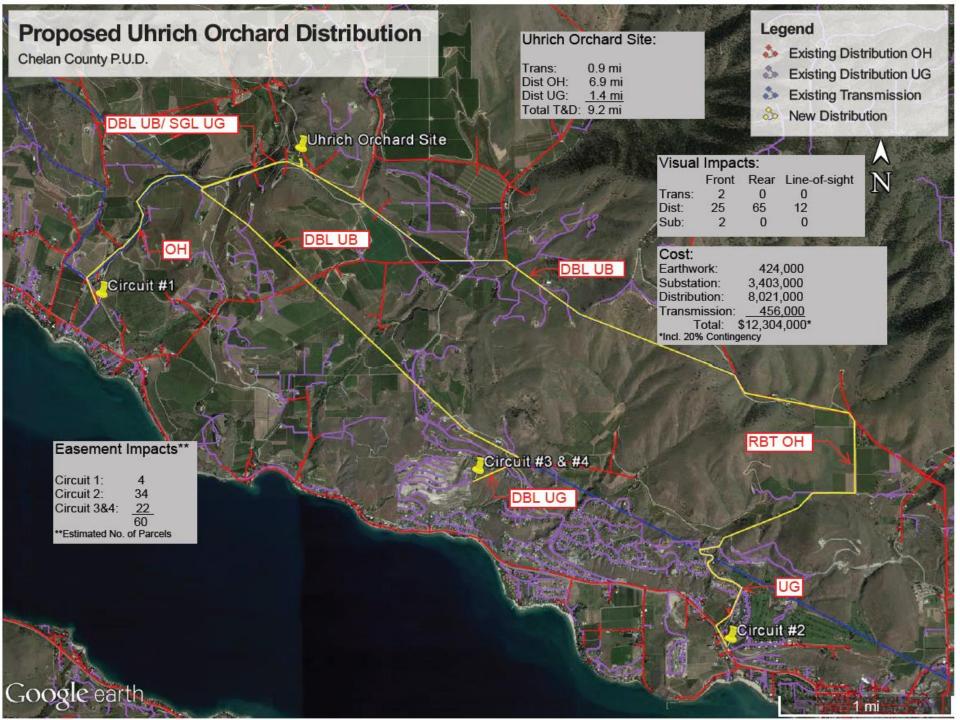
#### Staff efforts ongoing since the March 6<sup>th</sup> update

- High level review of view impacts on the North Shore from the 3 sites presented
- Review of current power line easement rights
- Further understanding of what under grounding the overhead power lines might entail
- Understanding that the further we move away from locating a substation from where the power is needed we are introducing more complications, cost and potential unintended consequences
- Continuing our discussions and learning with North Shore customers/community group





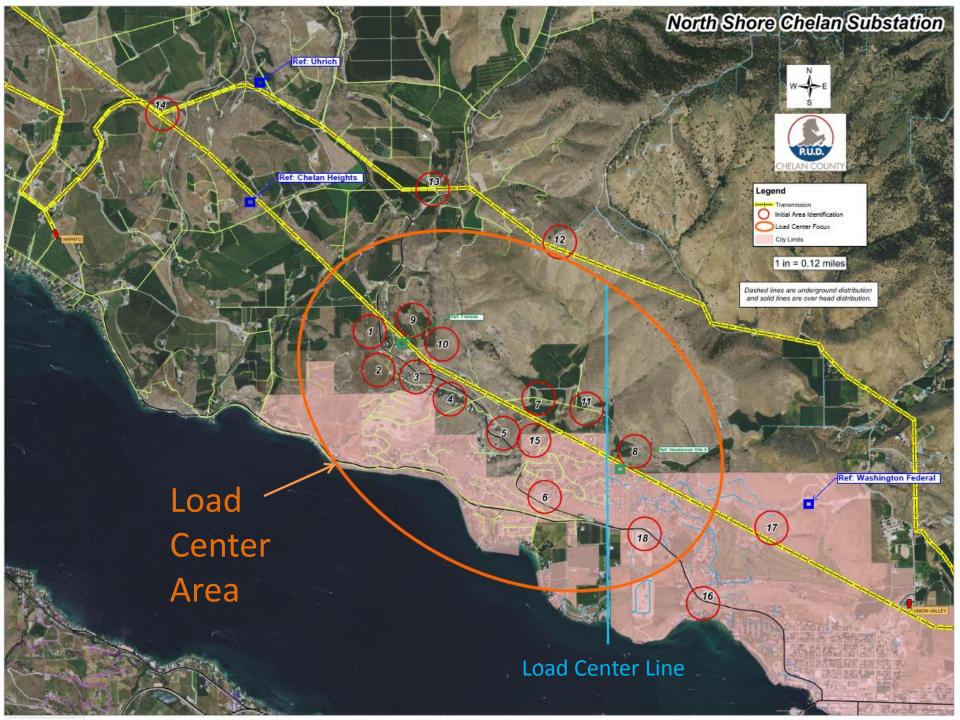




# Chelan North Shore Update

- March 16<sup>th</sup> met with Chelan Focus Group (Sixth meeting)
  - Reviewed aesthetics, costs and easements with (3) outlying sights previously reviewed at March 6 Board meeting
  - Reviewed costs drivers above the typical (~ \$5M Substation)
  - Discussed the undergrounding challenges associated with multi-circuit, extended length power lines
  - Sought input and agreement for a new approach to evaluate sites closer to the load center
- Focus Team Feedback
  - Strong team support to pursue new options closer to the load center
  - Advocating to underground power lines wherever and whenever possible
  - Look at other potential properties for future use beyond current need
  - Expressed appreciating for PUD continued outreach effort





#### Chelan North Shore Planned Next Steps

- The 3 sites analyzed are not deemed meeting the goal of the best, for the most, for the longest due to aesthetic, cost and easement challenges
- Seek sites within the load center that:
  - Reduce the aesthetic impacts where possible
  - Minimize need for additional easements and land use permitting
  - Optimize proximity to existing Transmission and Distribution
  - Keep a reasonable overall cost expectation in the \$7 8M range
- Perform first level engineering and cost feasibility on (n) number of sites
- Communicate findings to Board and Focus Team



#### Chelan North Shore – Plan to Proceed

Does the Board of approve of this plan?



#### Leavenworth Update

- March 6<sup>th</sup> Board Meeting
  - Reviewed initial engineering and costs comparisons for (3) sites:
    - Site 9 CCPUD existing substation
    - Site 8A City property adjacent to Chumstick Highway & intersection of North Road
    - Site 14 Mend property further West of Chumstick Highway
    - Review additional transmission and distribution line requirements for sites
  - Stakeholder feedback shows support for site 14 (Mend property)
  - PUD engineering analysis also supports site 14
  - Leavenworth focus group supports site 14
  - Site 8A is a viable option if site 14 does not forward

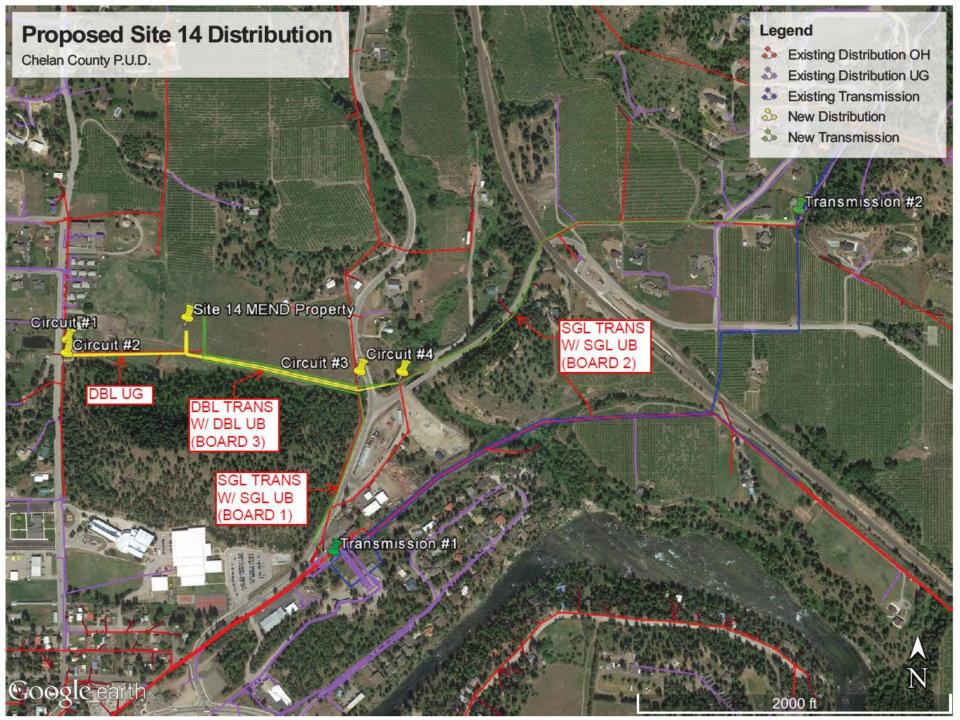


#### Leavenworth Update

Staff efforts ongoing since the March 6<sup>th</sup> update:

- Review of current power line easement rights
- Continuing our discussions and learning with both City of Leavenworth officials as well as representative from owner of site 14 (Mend)





#### Leavenworth Plan to Proceed

- Perform deeper look at preferred site 14 feasibility, site conditions and mitigation efforts
- Identify and review options for Conditional Use Permitting — Road access, utilities, buffers, etc.
- Explore aesthetic impacts and mitigation options with the City of Leavenworth, Mend and nearby customers
- Keep site 8A as an alternative if site 14 does not move forward



#### Leavenworth – Plan to Proceed

Does the Board of approve of this plan?



# Questions?

