PWB's Storage Program

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Options for Complying with LT2

- Cover reservoirs
- Treat at the outlets

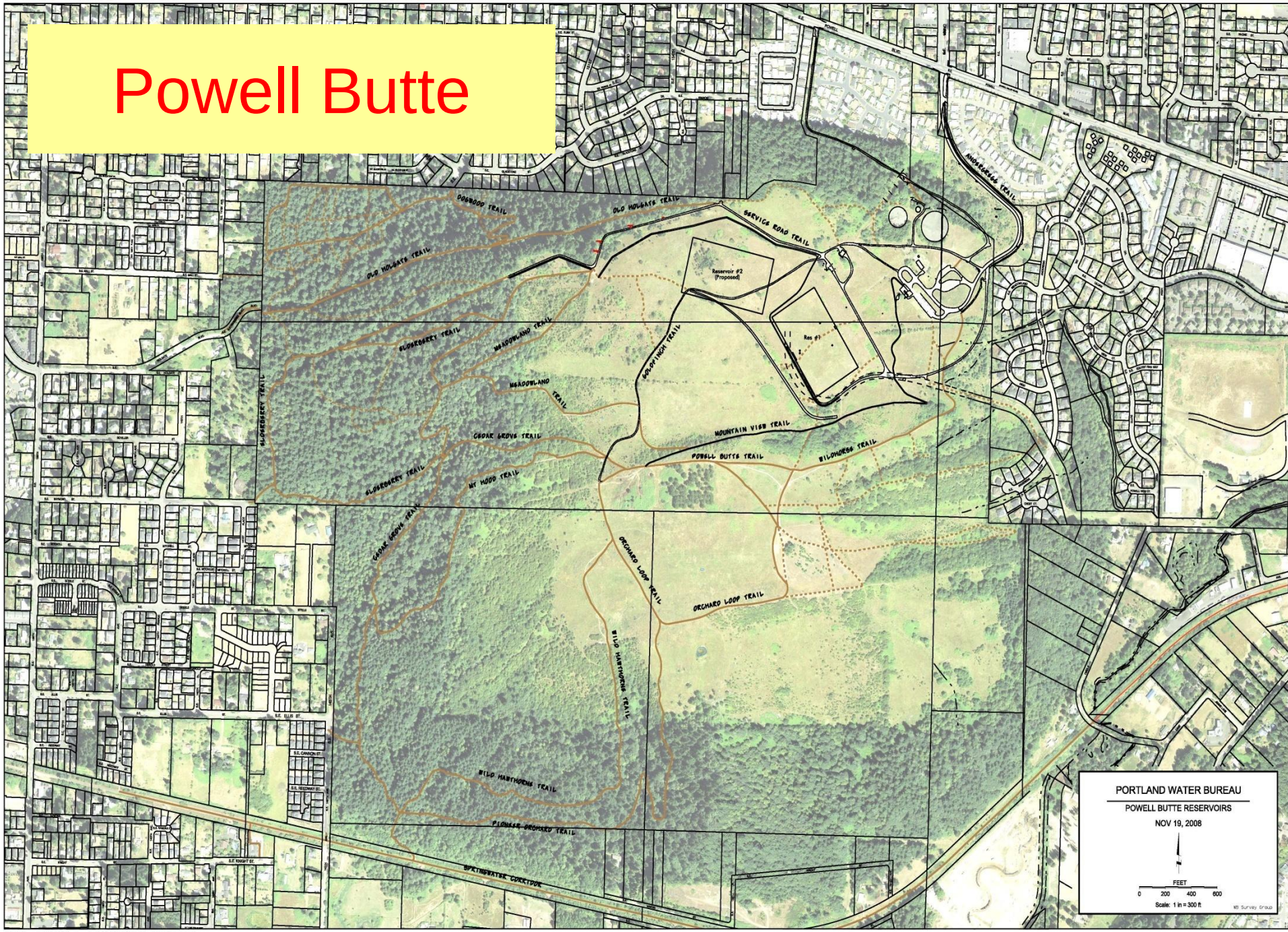
Decision Drivers

- Constructability
- Politics
- Financial
- Historical Designations
- Permitting
- Public Sentiment

Portland's Approach

- Three new reservoir projects
- Transmission and system improvements

Powell Butte



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Powell Butte Phase 1

- Site preparation
- Roads
- Erosion and sediment control
- Fencing
- Excavation of first 20 feet

Powell Butte Reservoir, Phase 2

- 50 MG reservoir, mechanical space, pipe and appurtenances
- Approx 5000 LF of conduit 5 – 90” dia steel pipe
- Maintenance building and yard
- Caretaker house
- Interpretive center
- 12 miles of trail improvements
- Parking lots
- Landscaping, mitigations, etc

What is Unusual on Project

- Number of permits
- Land use appeal
- Subcontracting approach
- Stormwater / overflow
- Wildlife
- Access during construction
- Erosion control

Powell Butte Status

- Bids opened on April 7, 2011
- 1 formal bid appeal
- Construction expected to begin Summer 2011.
- It’s a hole waiting to be filled

Kelly Butte Reservoir

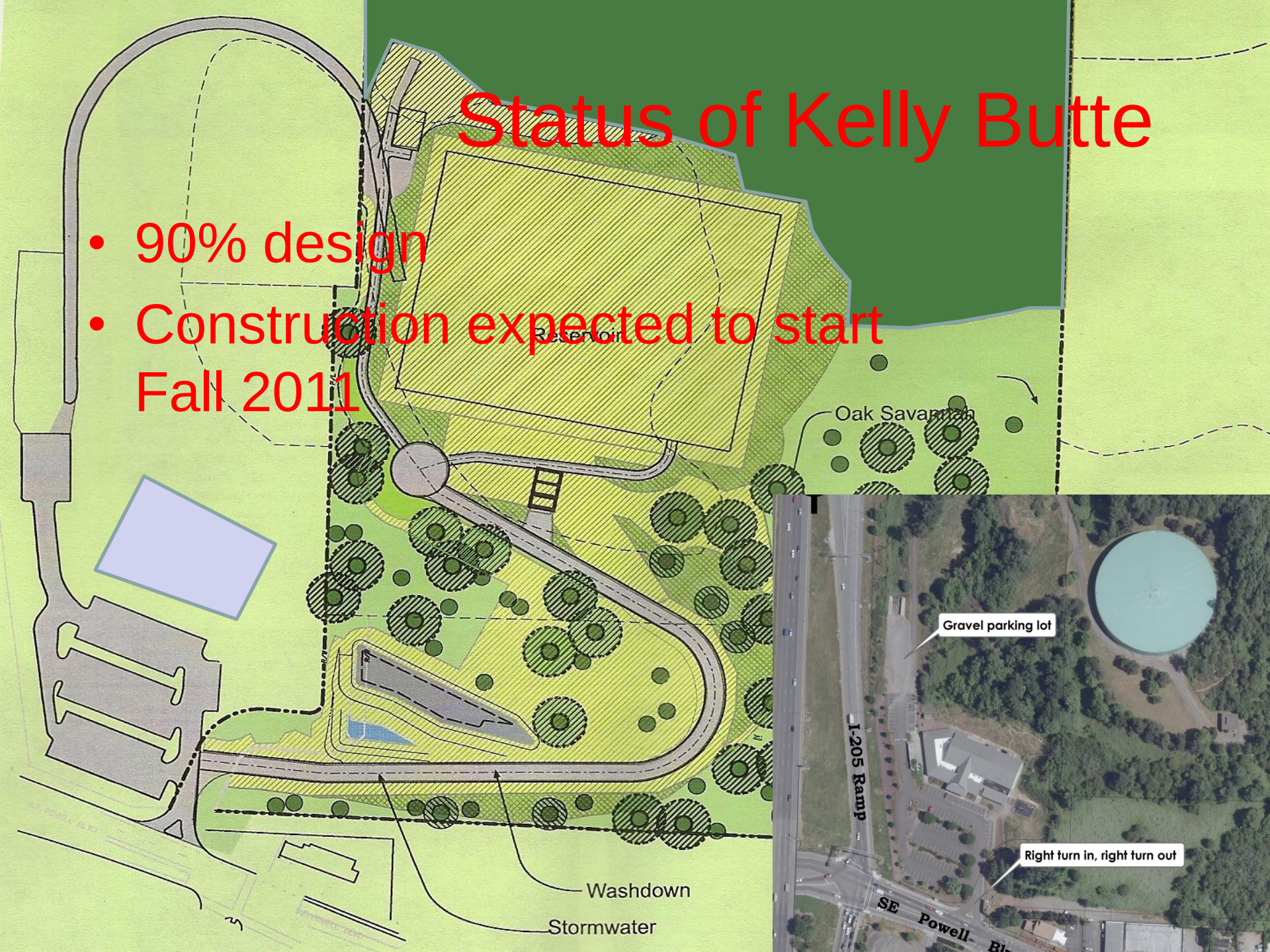
- Replace 10 MG aboveground tank with 25 MG
- Pipes and appurtenances
- Two mechanical spaces
- Roads
- Landscaping / mitigations

What’s Unusual on Project?

- Topography
- Access
- Stormwater/overflow
- Staging
- Permits/Land use
- Wildlife
- Homeless camps

Status of Kelly Butte

- 90% design
- Construction expected to start Fall 2011

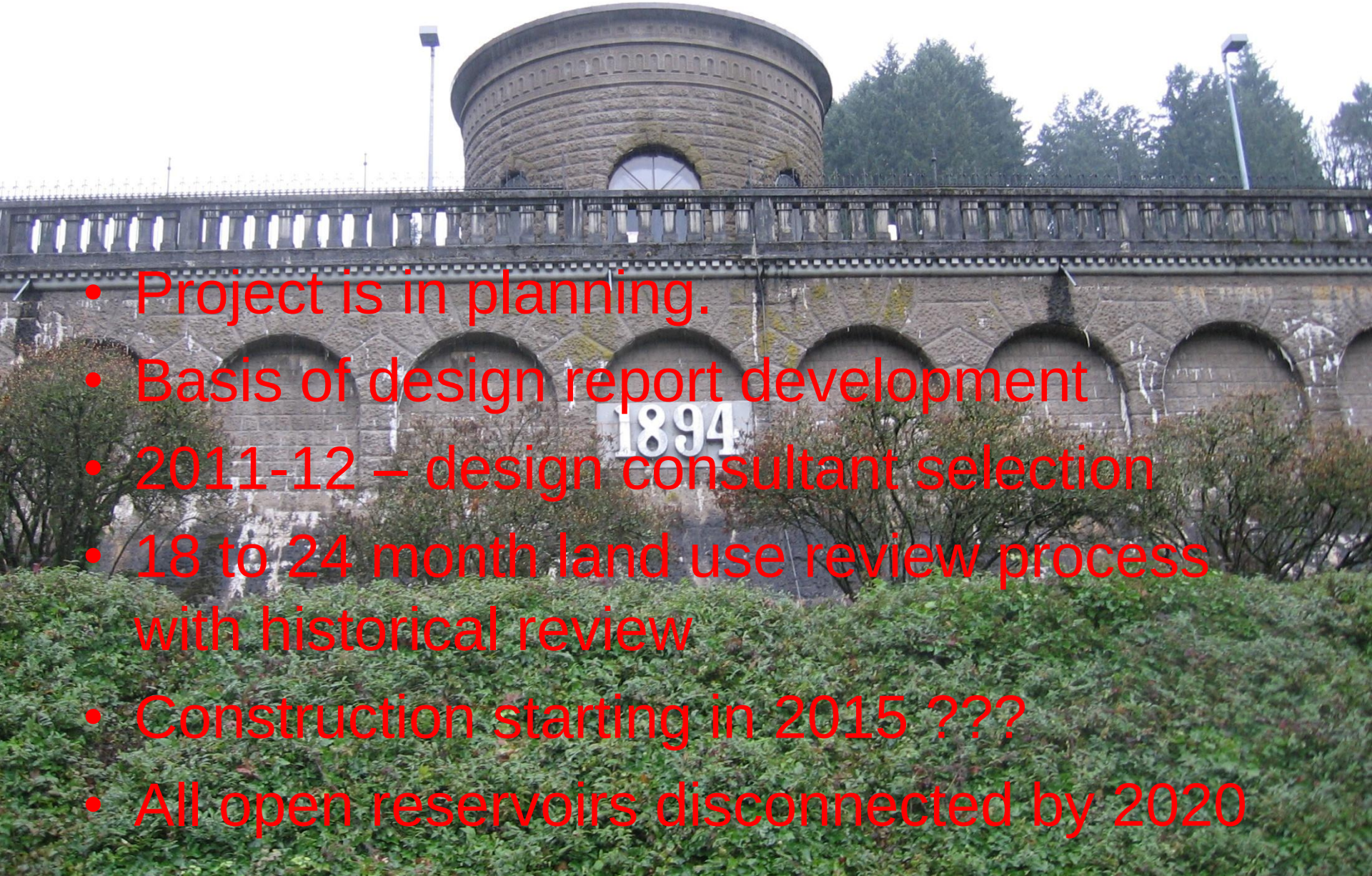


Washington Park

Scope of Work

- Slide Mitigation
- Reservoir 3 – 15 MG buried storage
- Reservoir 4 – possibly used as overflow and stormwater basins
- Retain as much historical features as possible and practical
- Reflective pool over top to simulate open reservoir appearance

Status and Schedule



- Project is in planning.
- Basis of design report development
- 2011-12 – design consultant selection
- 18 to 24 month land use review process with historical review
- Construction starting in 2015 ???
- All open reservoirs disconnected by 2020

Questions?