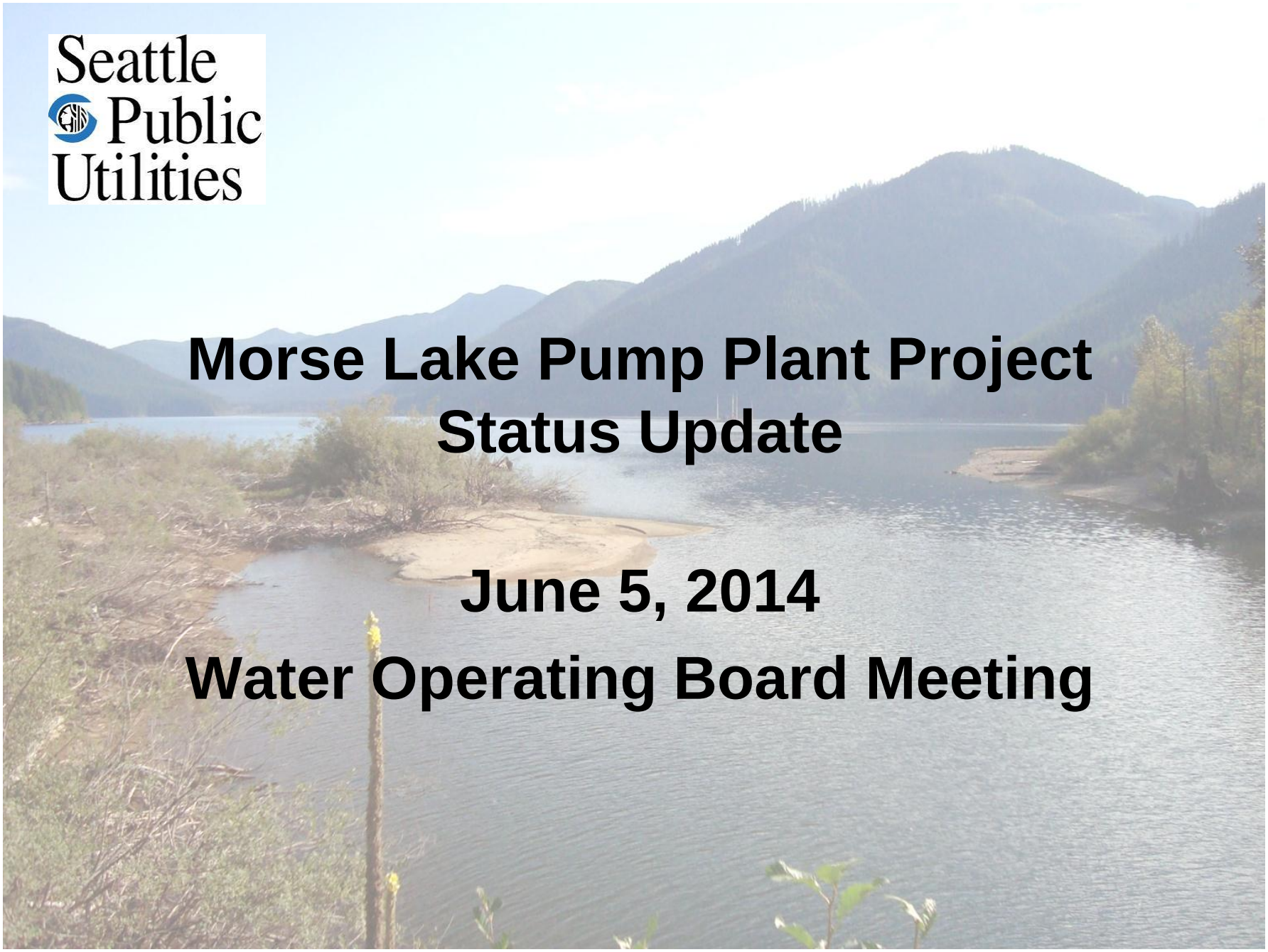


Seattle Public Utilities

Morse Lake Pump Plant Project
Status Update

June 5, 2014

Water Operating Board Meeting

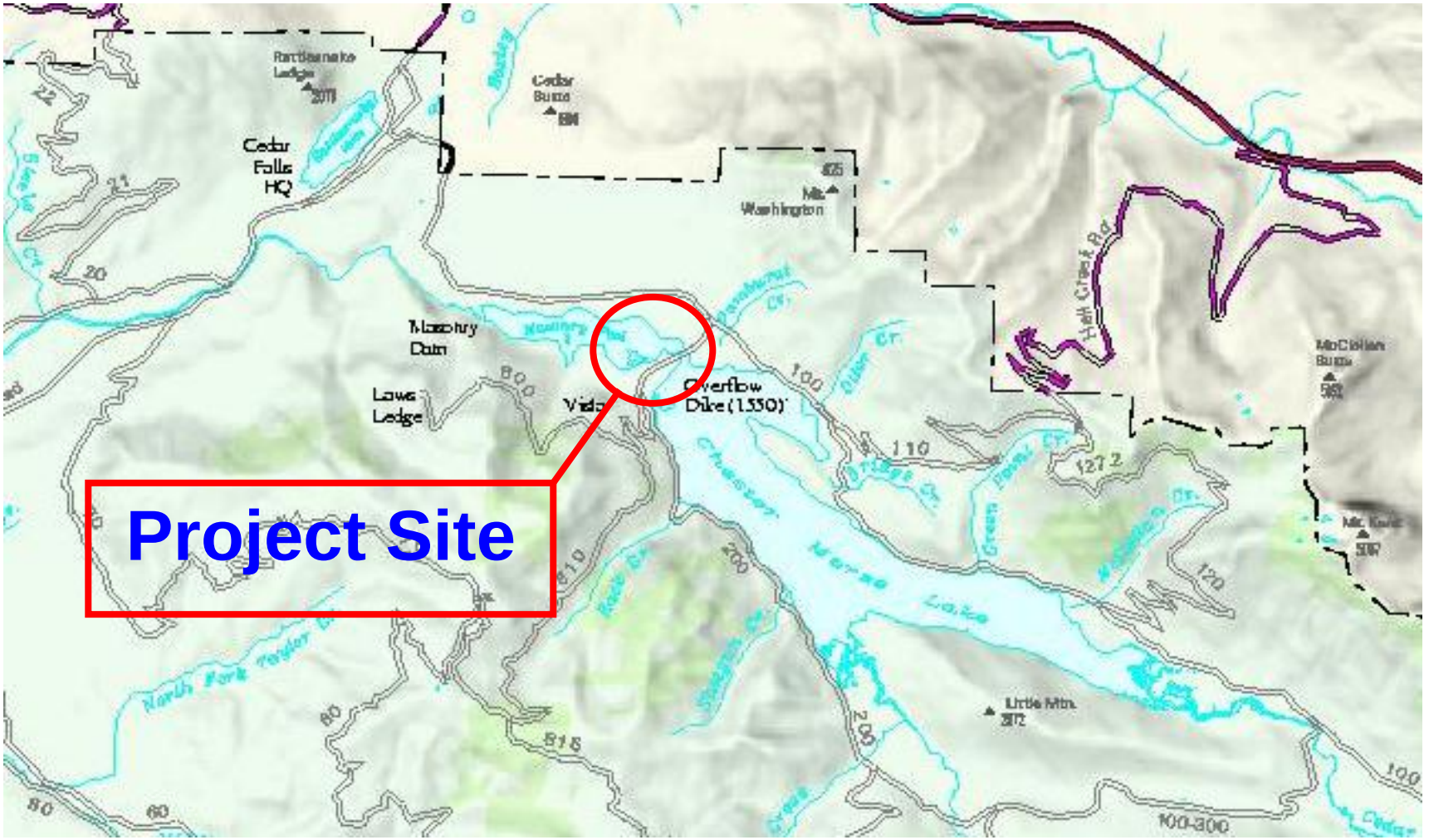
Seattle Public Utilities

Outline

- Project Background
- Project Status
- Project Scope
- Budget and Cash Flow
- Current Risks

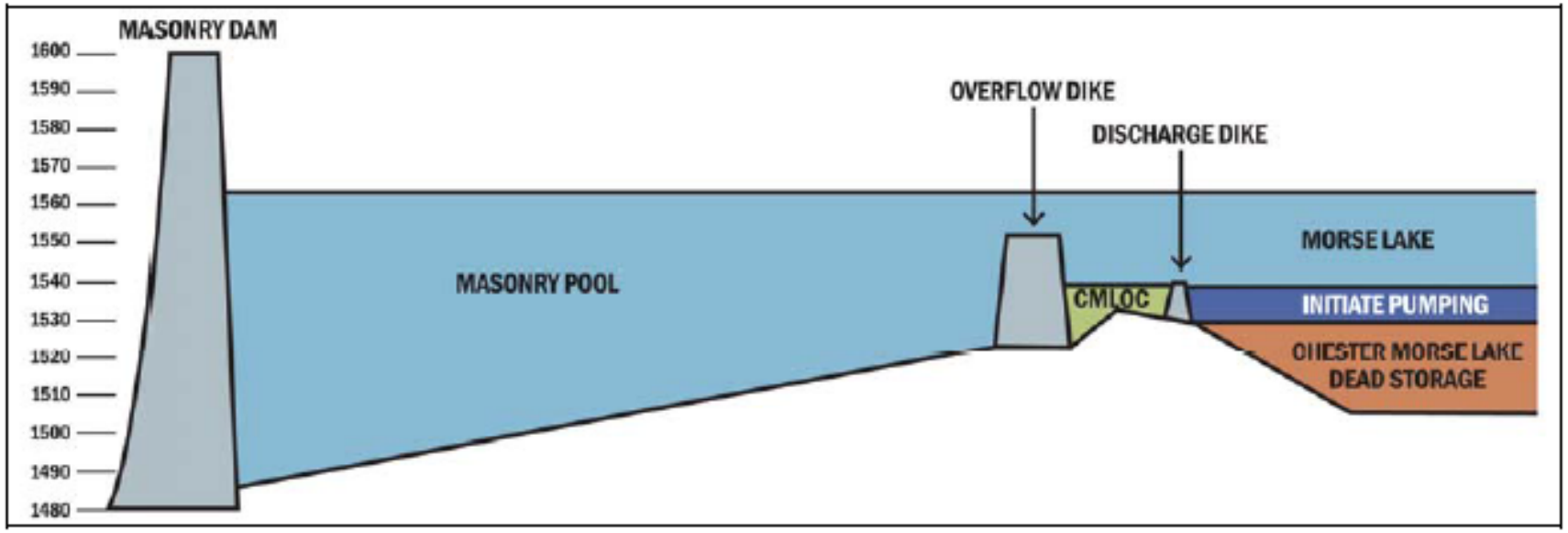
Seattle Public Utilities

Background



Seattle Public Utilities

Resource Profile



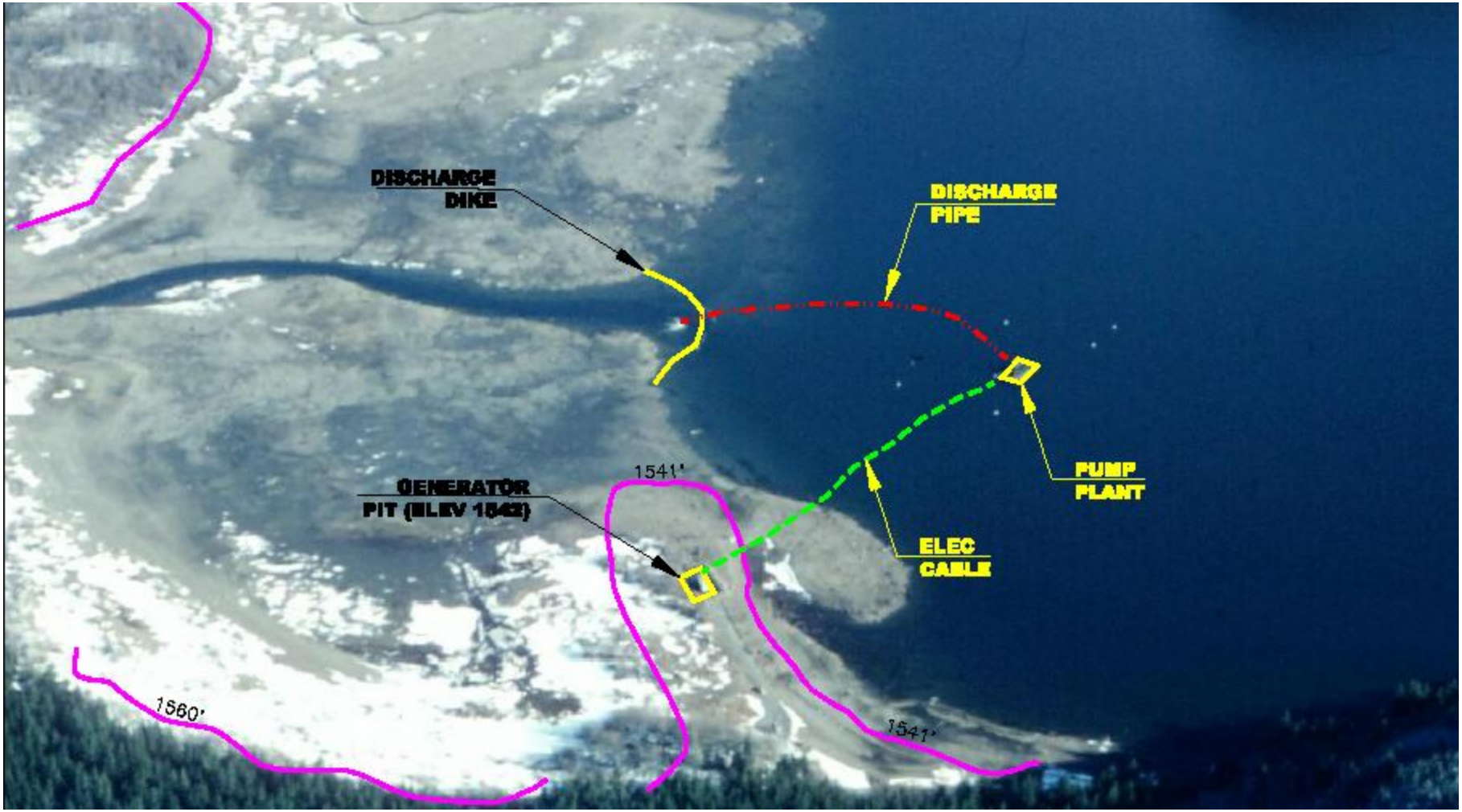
Seattle Public Utilities

Historic Channel Condition

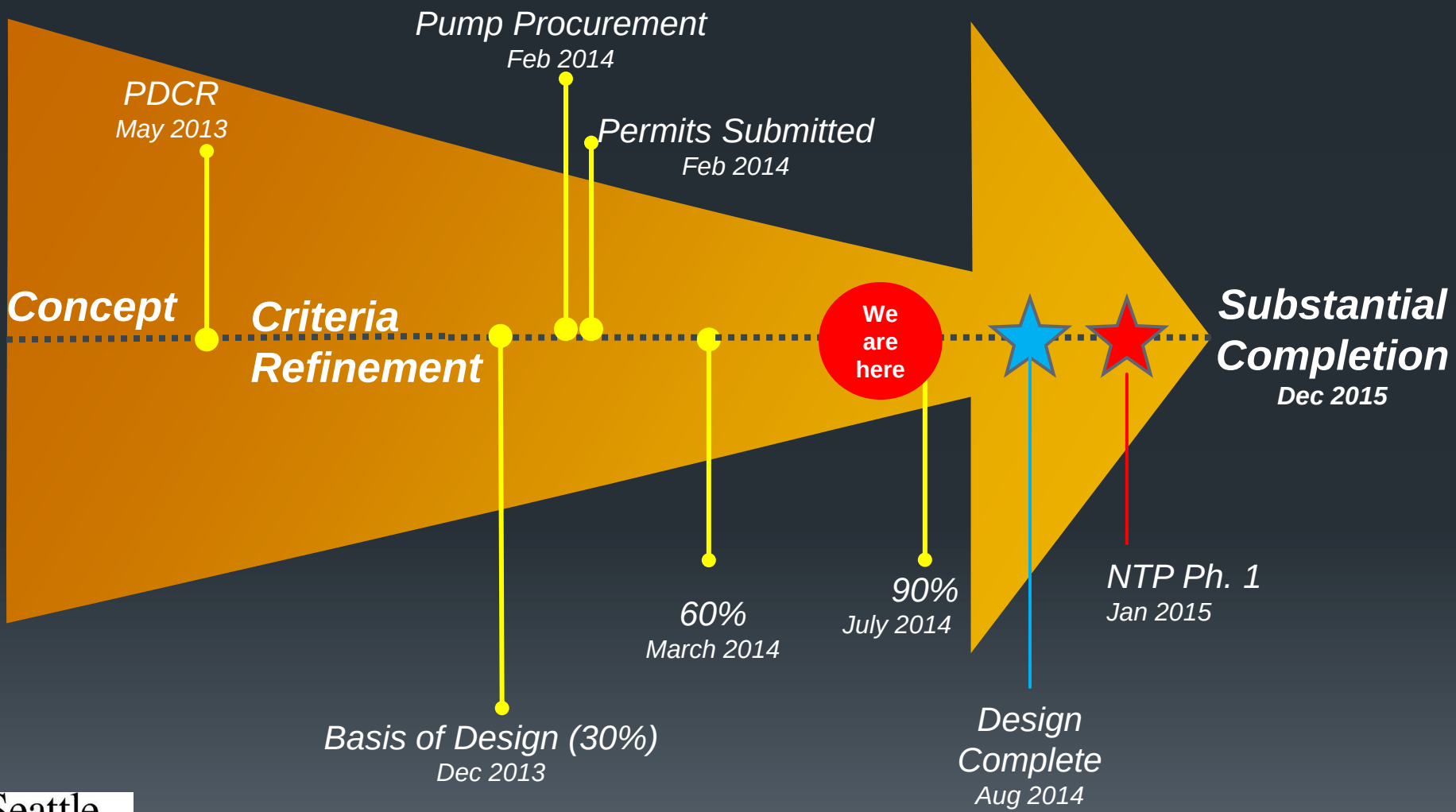
Morse Lake Pump Plant

Seattle Public Utilities

Existing PP Configuration



Project Design Status



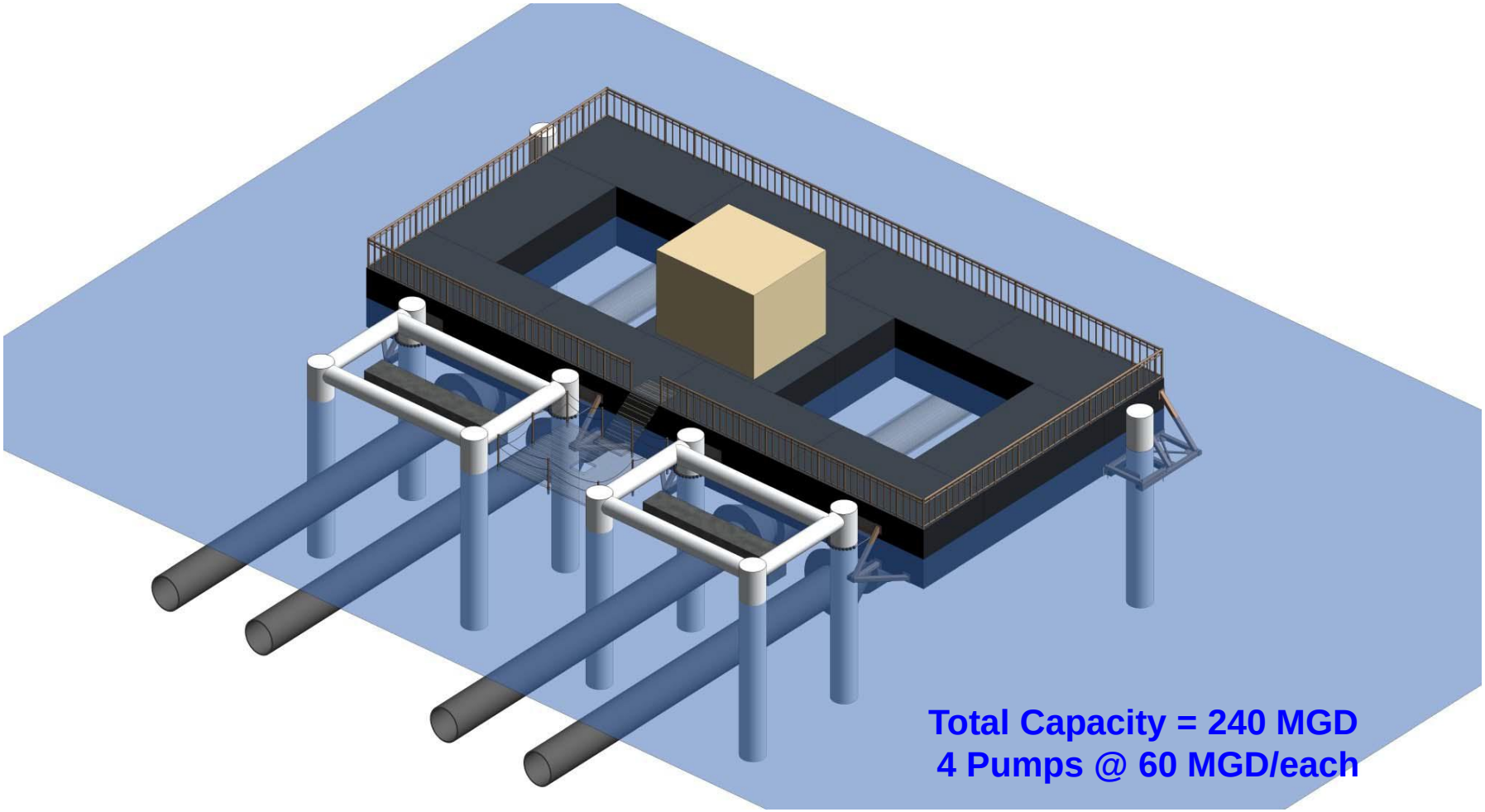
Seattle Public Utilities

Project Scope

- Three Key Elements:
  - Replacement Pump Plant
  - Improve Power Supply/Staging
  - Improve/Stabilize Conveyance

Seattle Public Utilities

Floating Pump Plant



Seattle Public Utilities

Floating Pump Plant

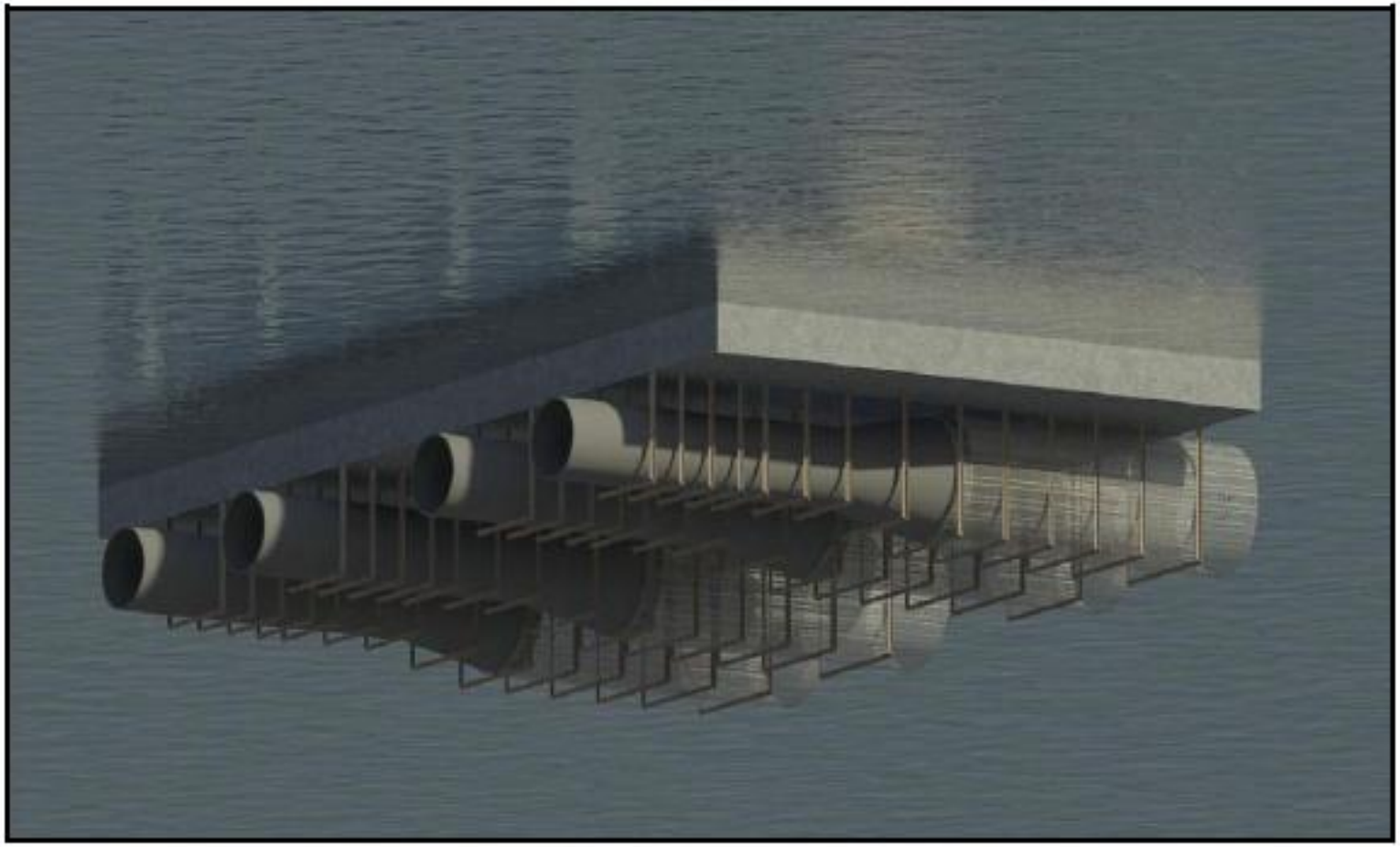
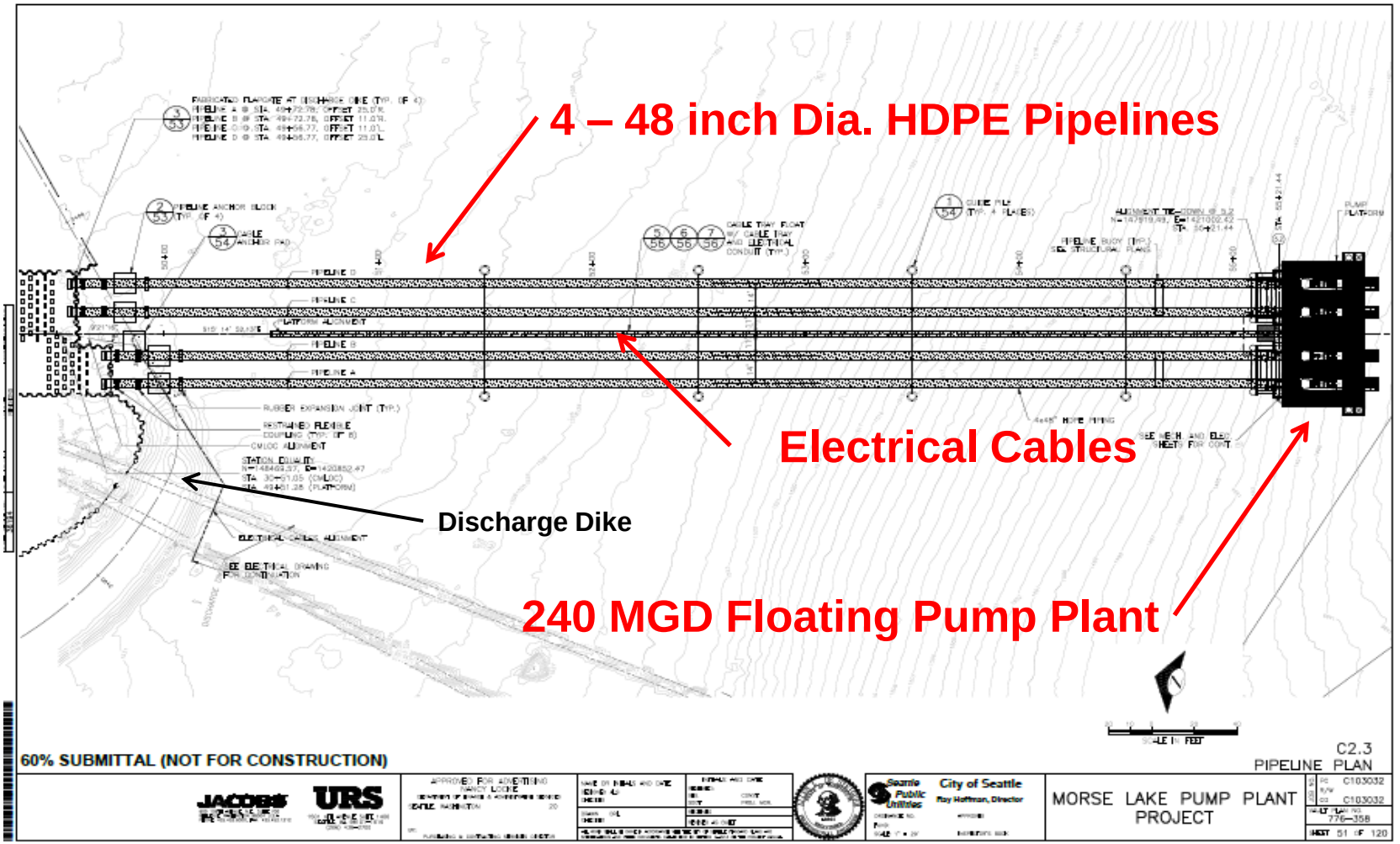


Figure Pump Platform Configuration , Below-Water View

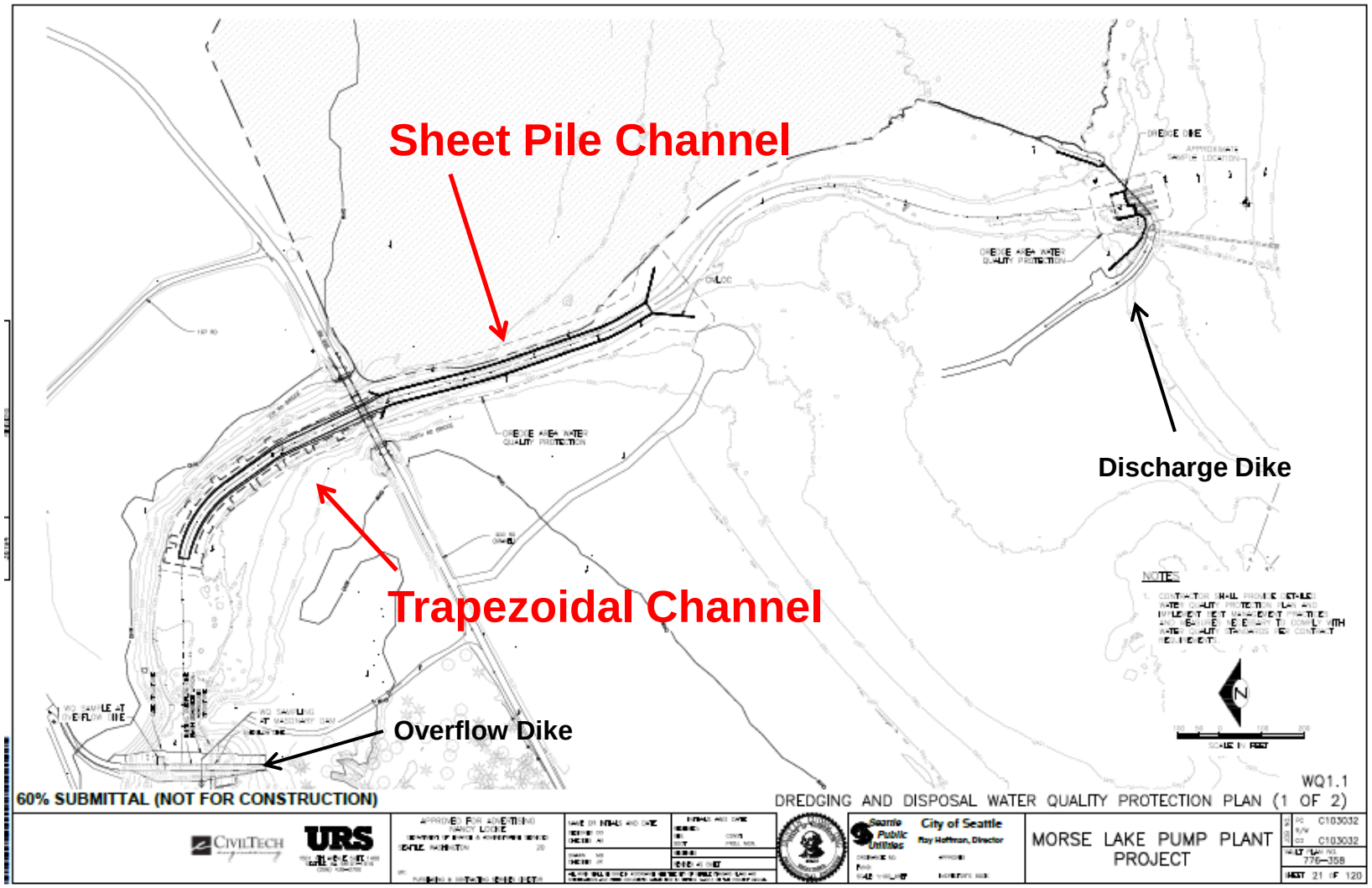
Seattle Public Utilities

Pipeline Conveyance



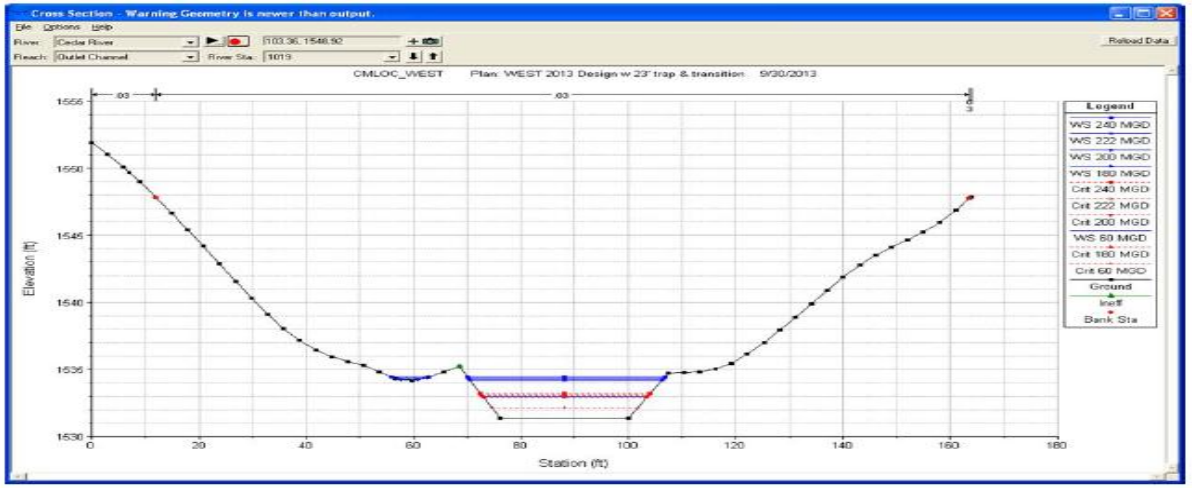
Seattle Public Utilities

Channel Conveyance



Seattle Public Utilities

Conveyance



ure 6-9 Typical Trapezoidal Cross Section with 23-Foot Bottom Width & 2:1 Side Slope

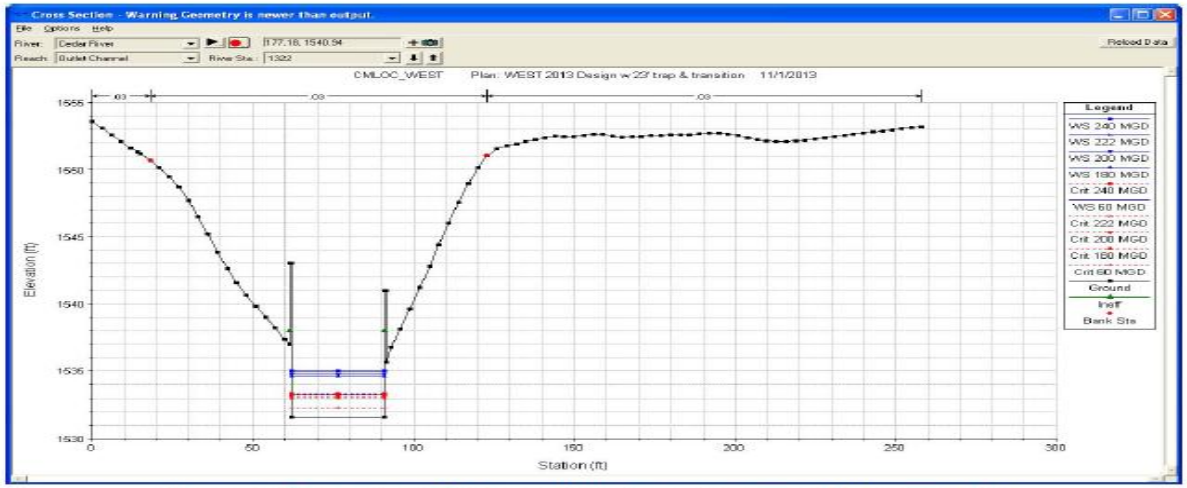
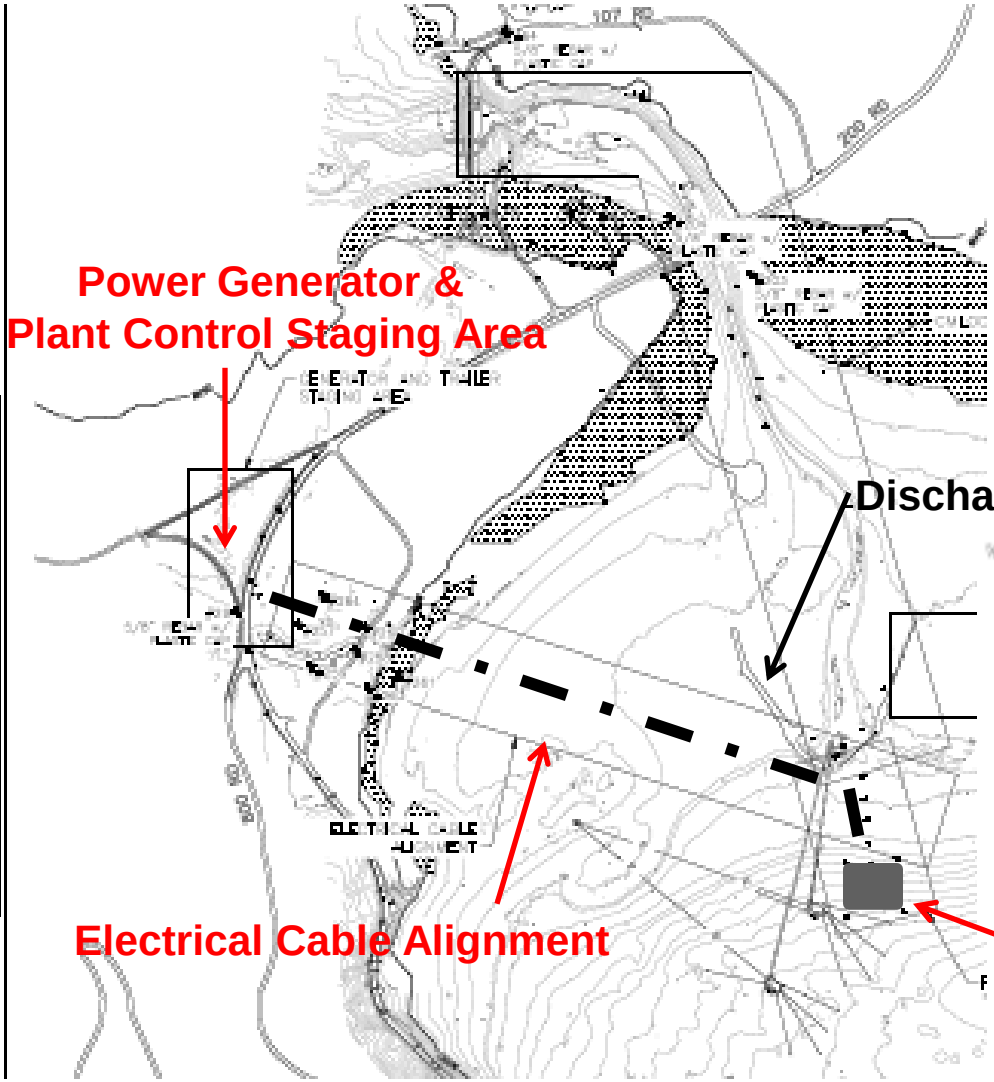
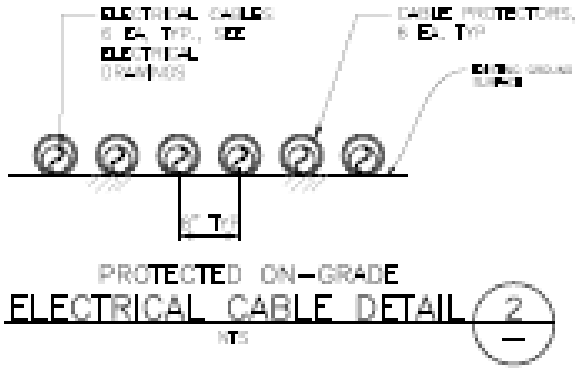


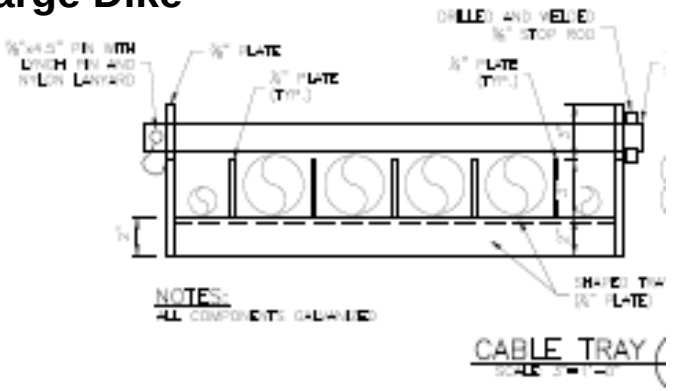
Figure 6-10 Typical Sheet Pile Cross Section (29 Feet Wide)

Seattle Public Utilities

Power Supply Improvements

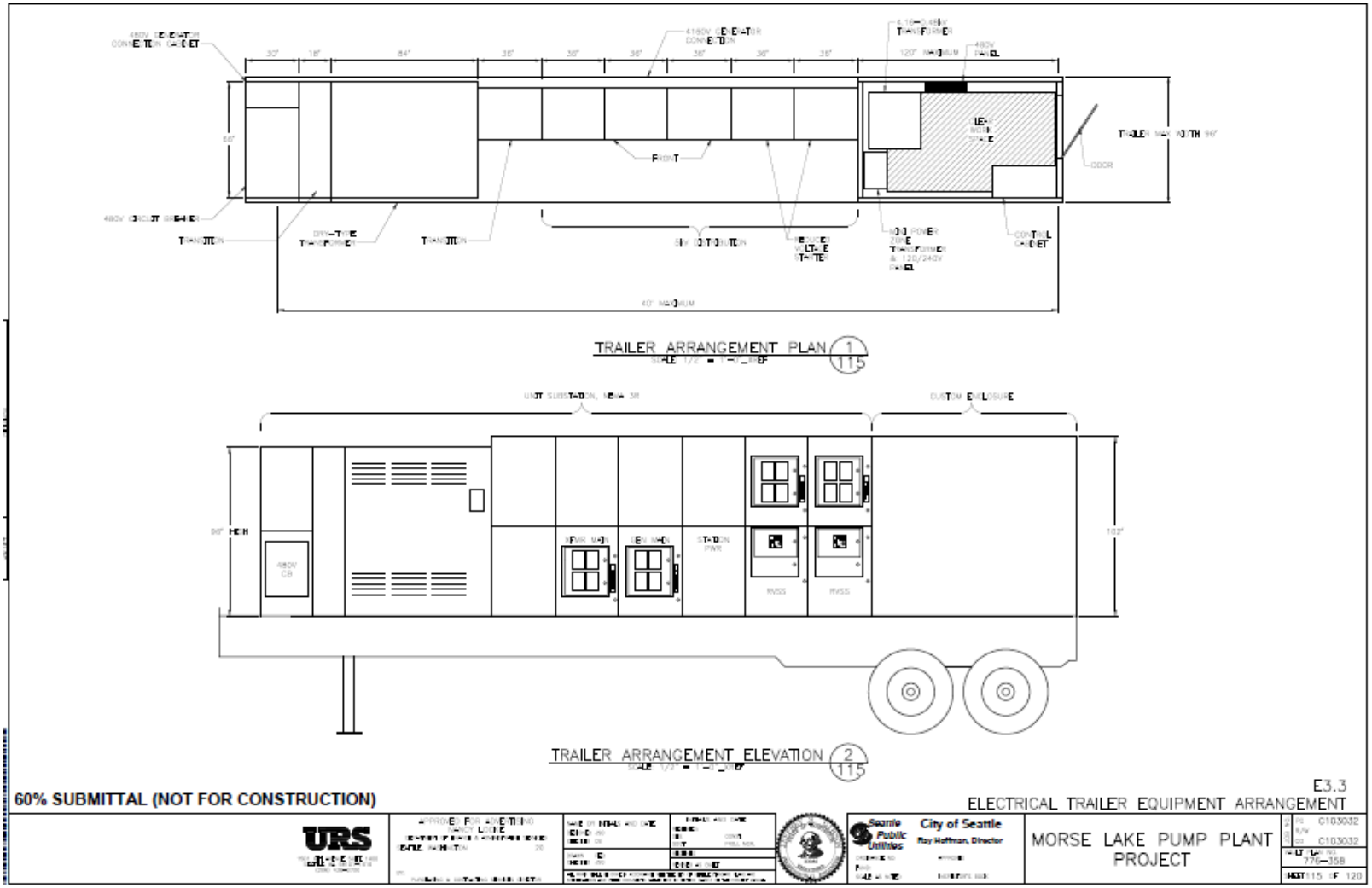






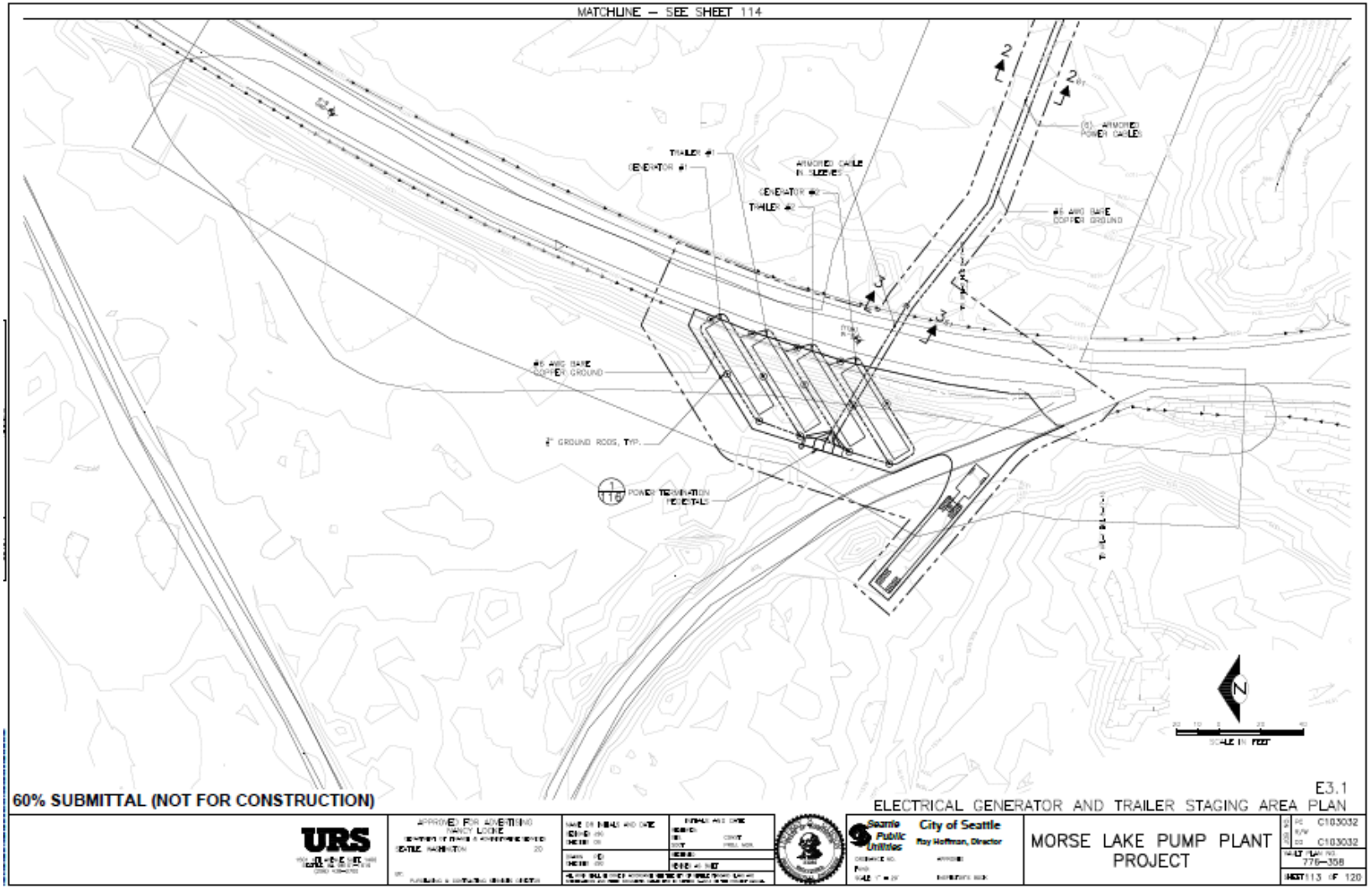
Seattle Public Utilities

Power Supply Improvements



Seattle Public Utilities

Power Supply Improvements

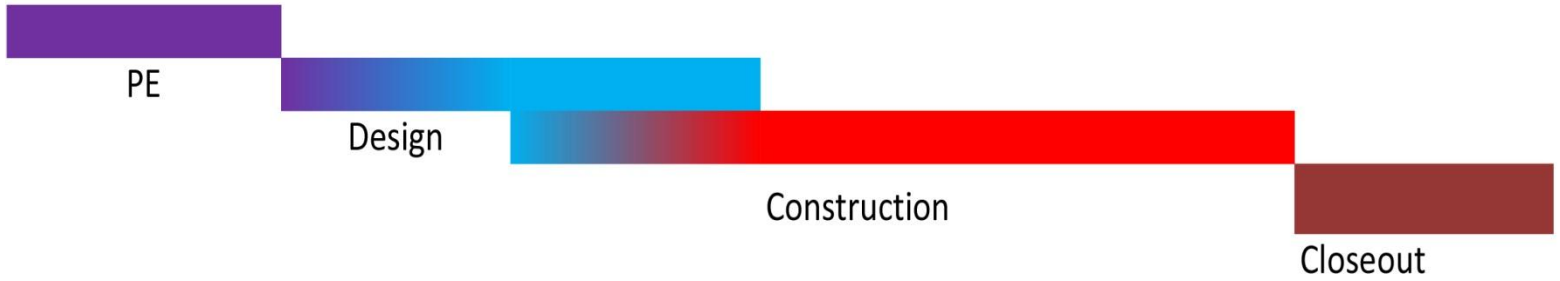


Morse Lake Pump Plant

Seattle Public Utilities

Budget/Cash Flow

2012	2013	2014	2015	2016	2017	**Project Costs**
$818,391	$2,309,973	$2,570,913	$9,054,097	$18,231,719	$5,496,409	**$38,481,502**



Primary Project Improvements

- Decreased mobilization time
  - Reduced from ~74 days (current) to ~15 days (proposed)
  - Reduced power requirement increases rental generator availability
  - In-house mobilization
- Durable design is safer for operations
  - Minimal diver involvement (self-leveling pile moorage)
- Improved discharge dike & channel conditions ensures flow for people and fish

Seattle Public Utilities

Current Project Risks

- Permits and Approvals (early engagement)
  - Tribal Interests
  - USACE, WDFW, WDOE
  - DOH
- Managing Tight Construction Windows
- Weather, Fire Danger, Use of Ex. PPs
- Managing Security and WQ Concerns


Seattle
Public
Utilities
Questions?