

Update - Klickitat Subbasin Facility Improvements to Support Hatchery Reform

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Presentation Outline:

Castile Falls Fish Passage & Monitoring Facility

Lyle Falls Fish Passage Facility

Update and Timeline for Future Actions



Klickitat Hatchery - Facility Transition

- Transfer operation of Mitchell Act facilities from WDFW to the Yakama Nation.
- Castile Falls Fishways
- Lyle Falls Fishway
- Klickitat Hatchery

Accord Capital Construction Projects:

- Castile Falls Monitoring Facility
- Lyle Falls Fishway/Collection Facility



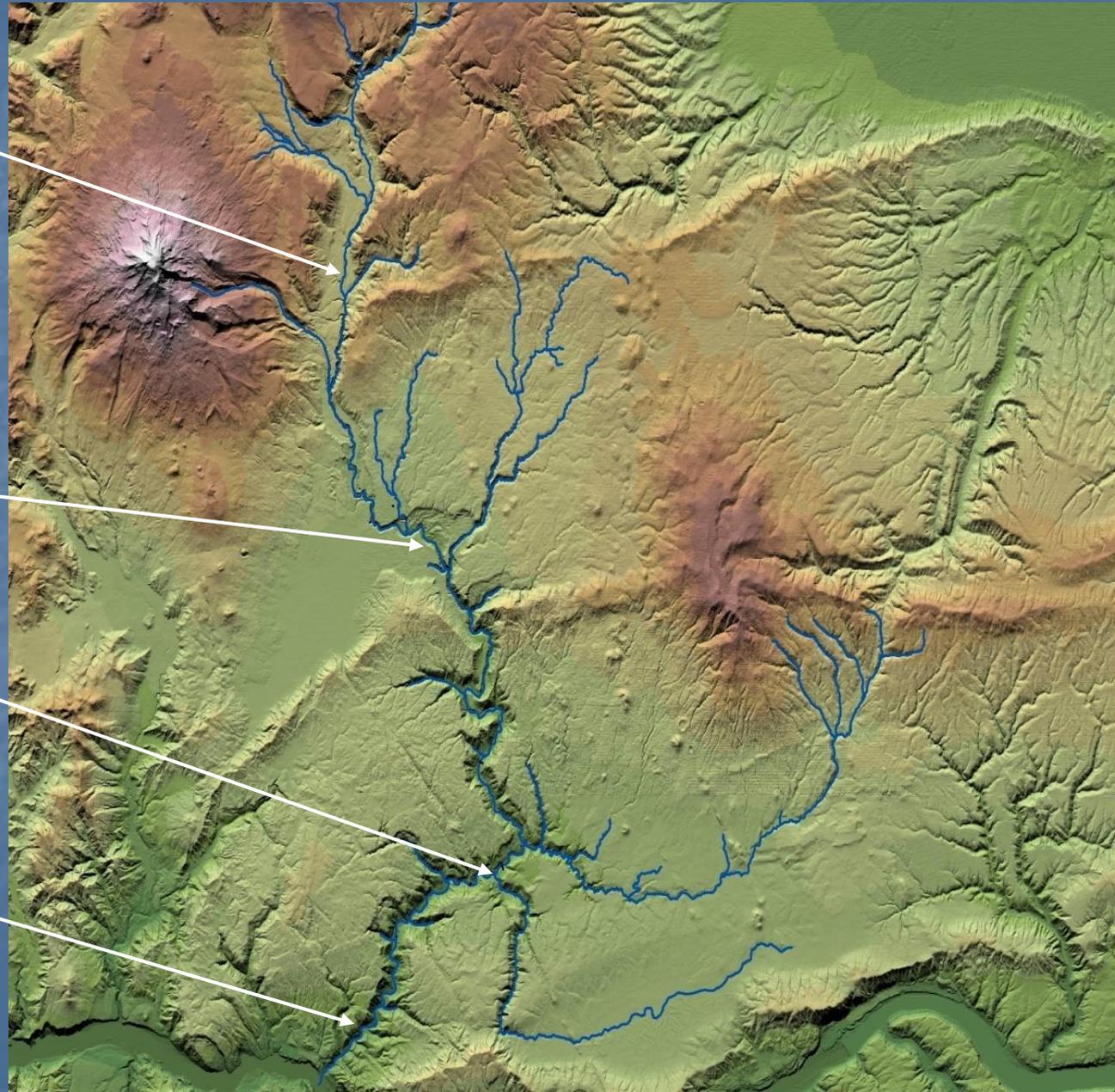
Klickitat Subbasin

Castile Falls Monitoring Facility
Rm 64.0

Klickitat Hatchery
Rm 43.0

Wahkiacus Hatchery (proposed)
Rm 17.0

Lyle Falls Fishway
& Collection Facility
Rm 2.2



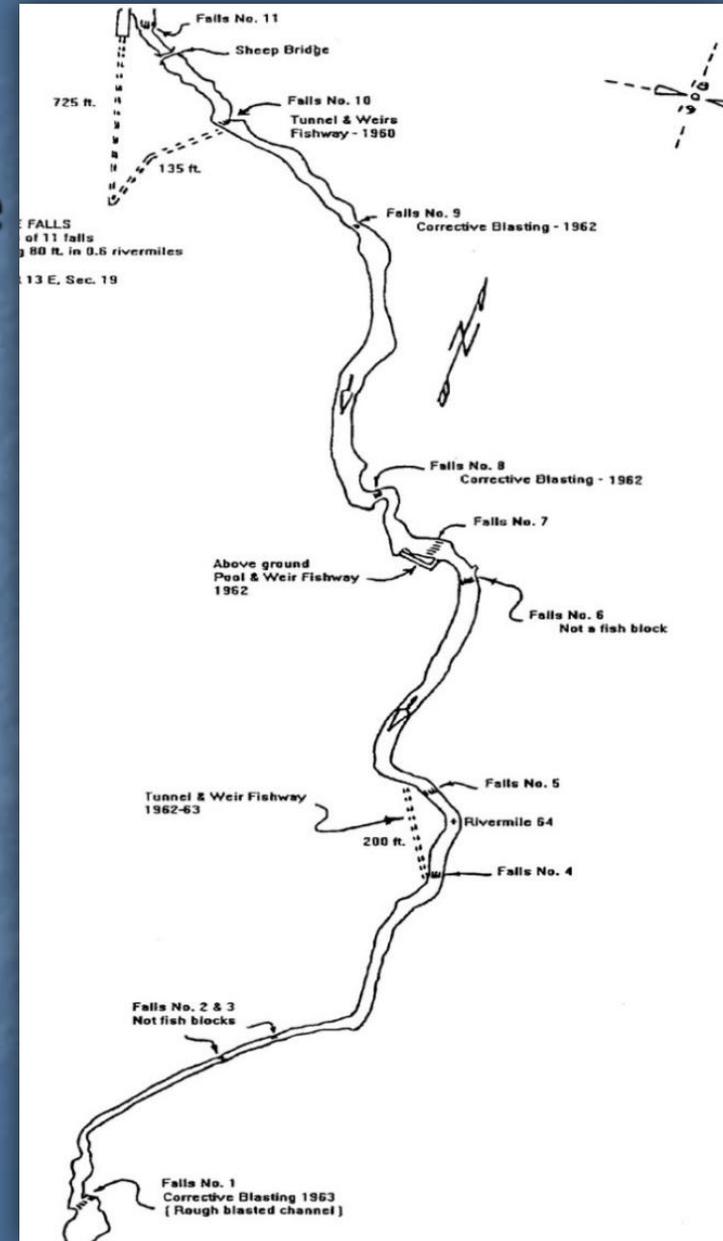
Castile Falls Monitoring Facility

Passage Improvements Completed

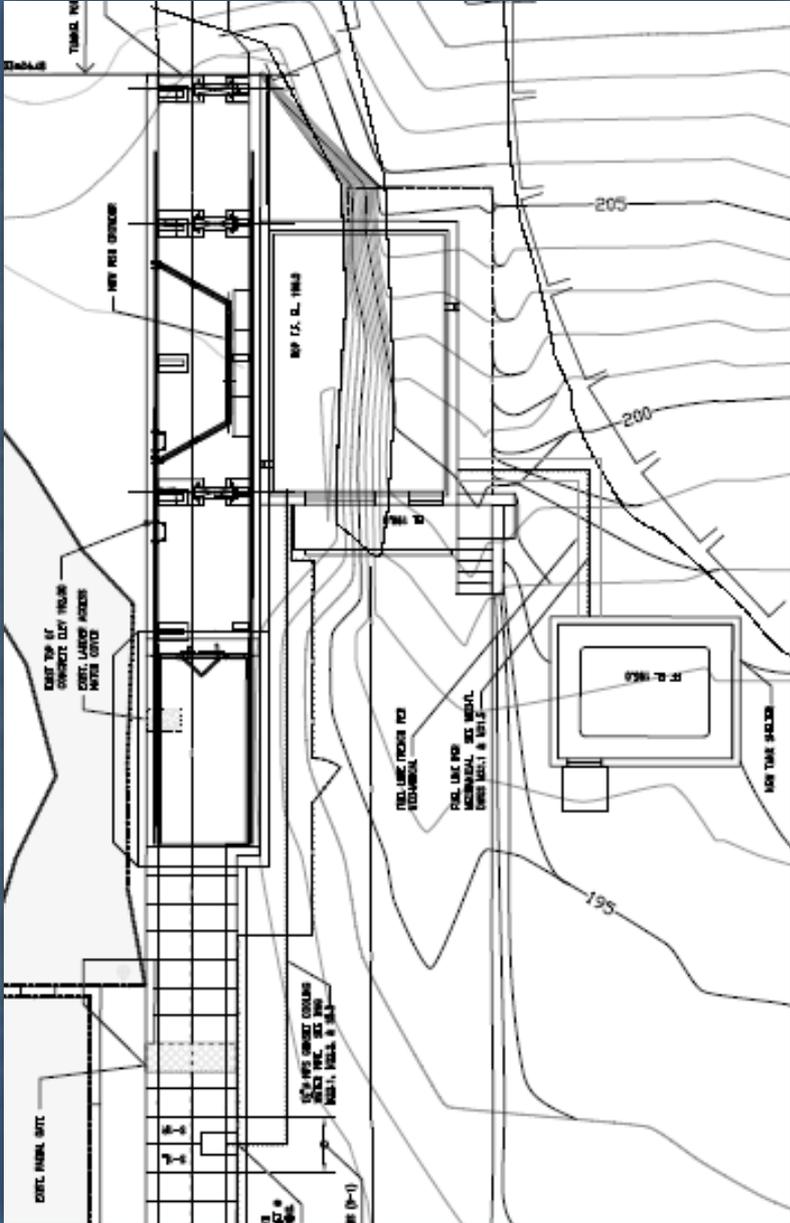
- 2004 - 2005
- Over 55 Miles of Habitat Accessible
- Reduced Fishway O&M

Monitoring Facility:

- Digital Imagery
- PIT Detection



Castile Falls Monitoring Facility



Castile Monitoring Station

- Self contained power generation
- Year round operation
- Satellite data relay
- Adult Collection
 - biosampling
 - brood collection



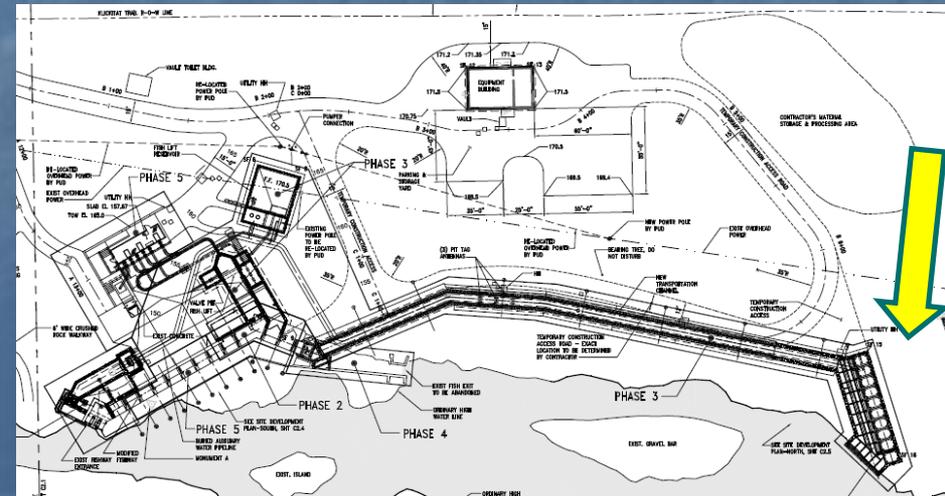
Lyle Falls Fishway #5 Passage & Monitoring Facility

- R,M&E Facility
- Meet NMFS passage and handling criteria
- Brood collection
- Lamprey passage



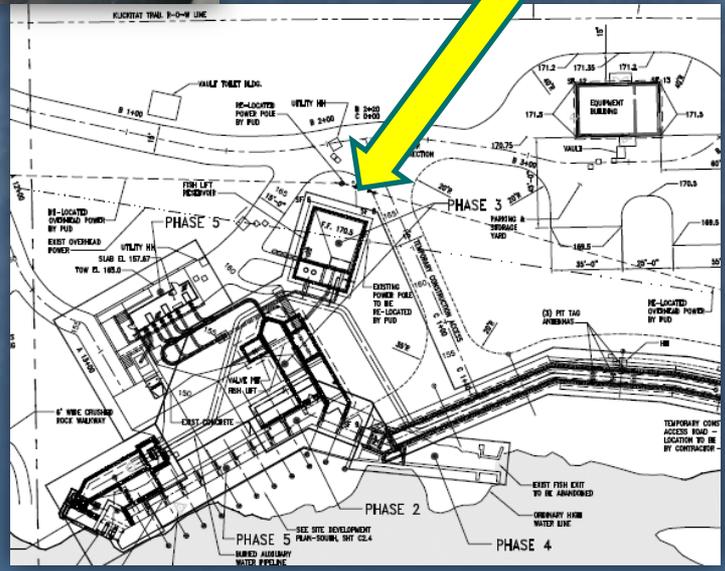
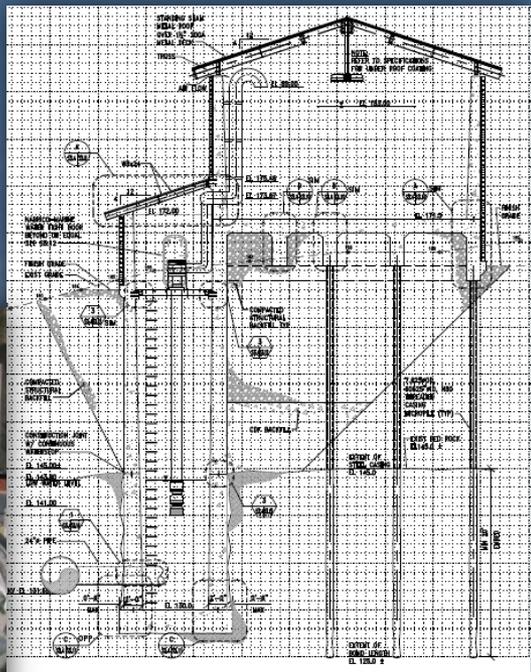
Fishway Exit & Water Intake

- Nine 10' Traveling Screens
- Hydraulically Driven
- High pressures wash



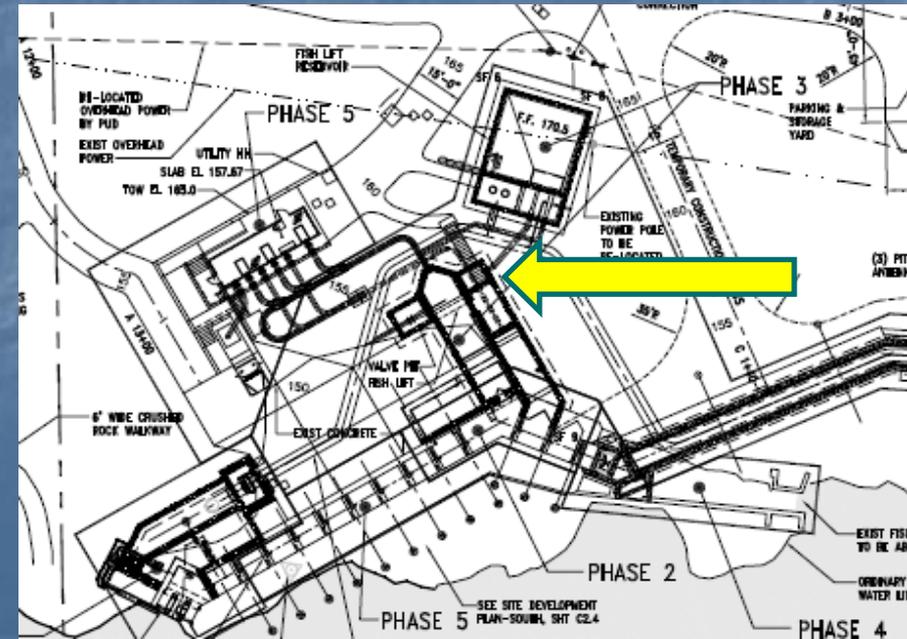
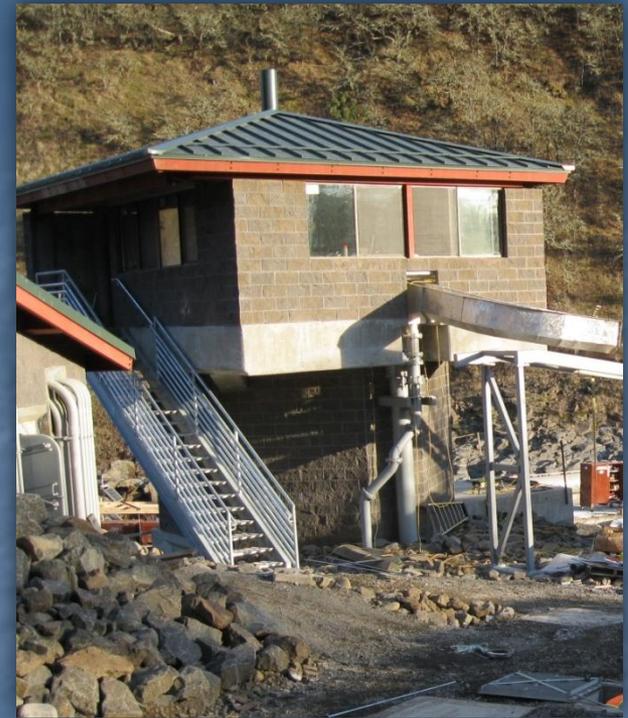
Fish Lift Reservoir

- 56,000 gallons
- 2 - 40 hp pumps

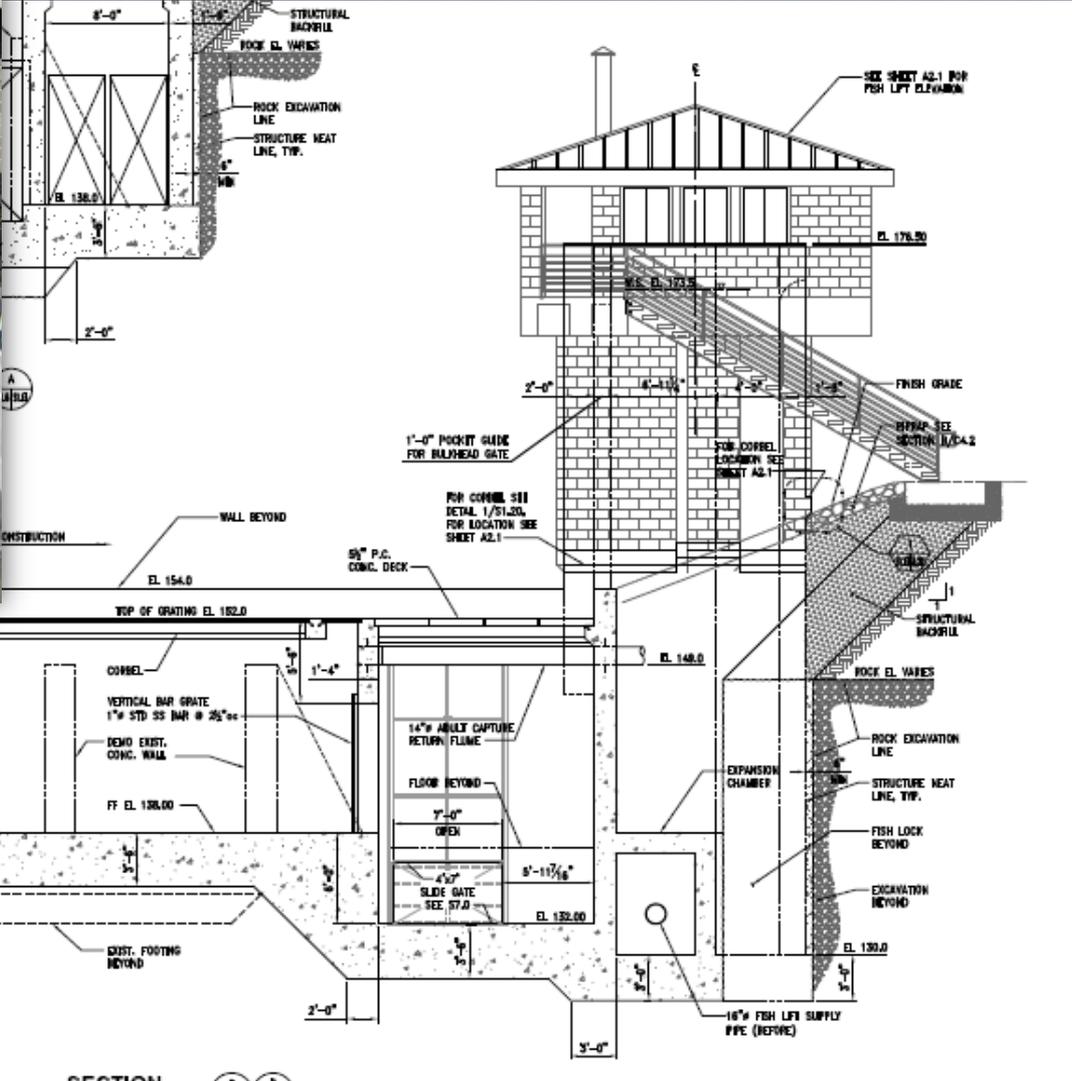


Fish Lift & Mechanical Crowder

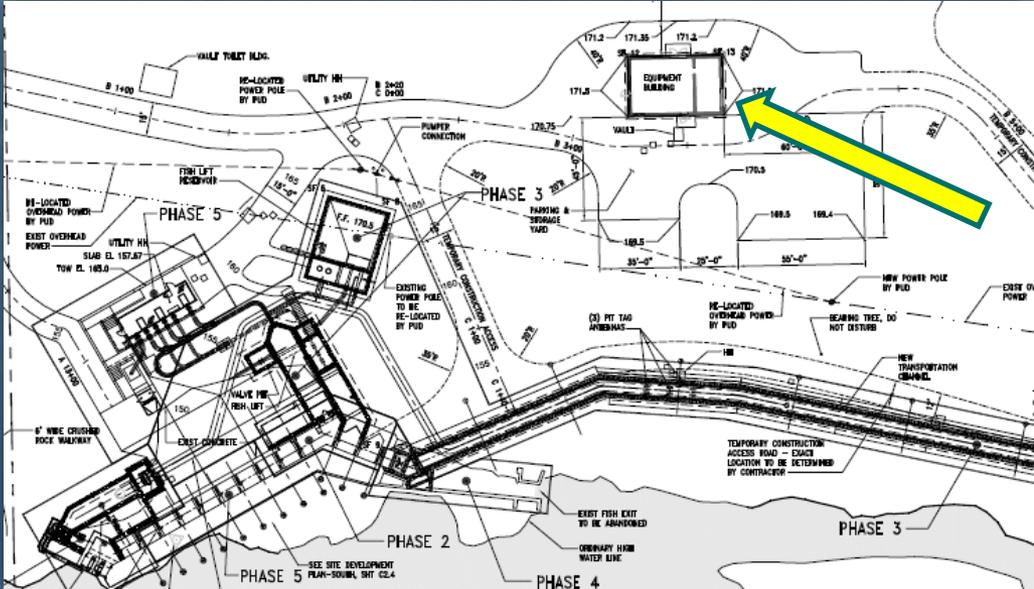
- 20,000 gallons/lift
- ~ 10 minute fill time



Fish Lift



Equipment Control Building



Additional Project Highlights:

- 3-Phase Power Delivery
- NMFS Engineering Review
- Media Exposure
- Revegetation
- Job Creation



Phase II Planning Underway

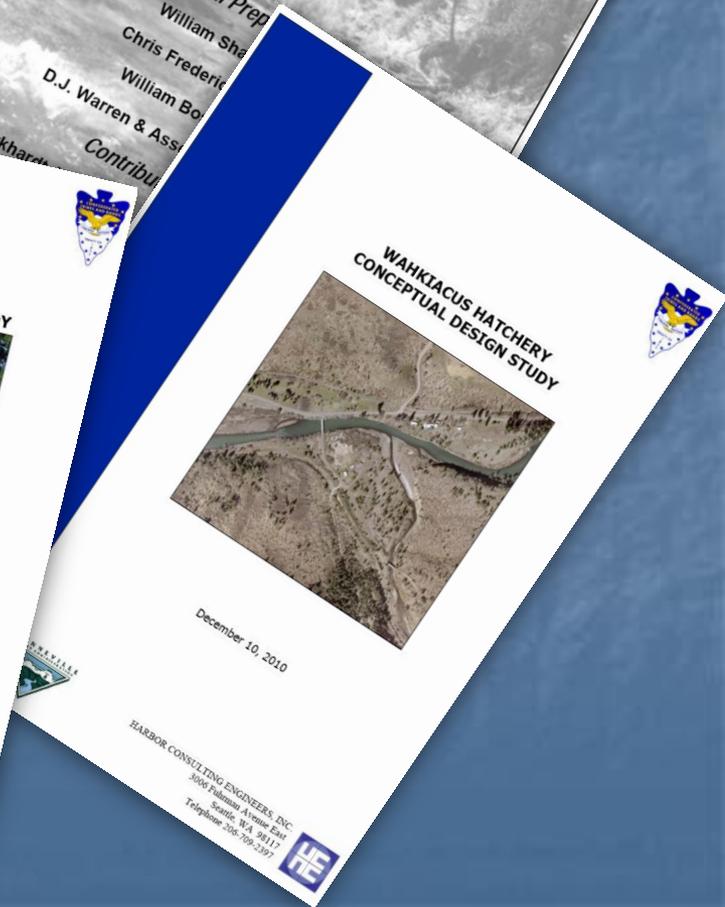
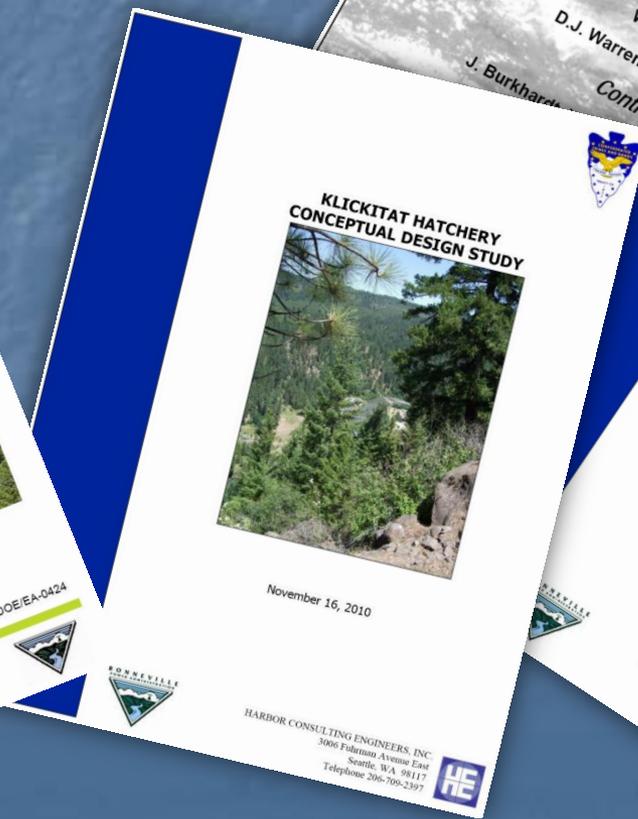
30% Conceptual Design

Draft EIS – Klickitat Hatchery Complex

Klickitat River Anadromous Fisheries Master Plan

Biological Assessment

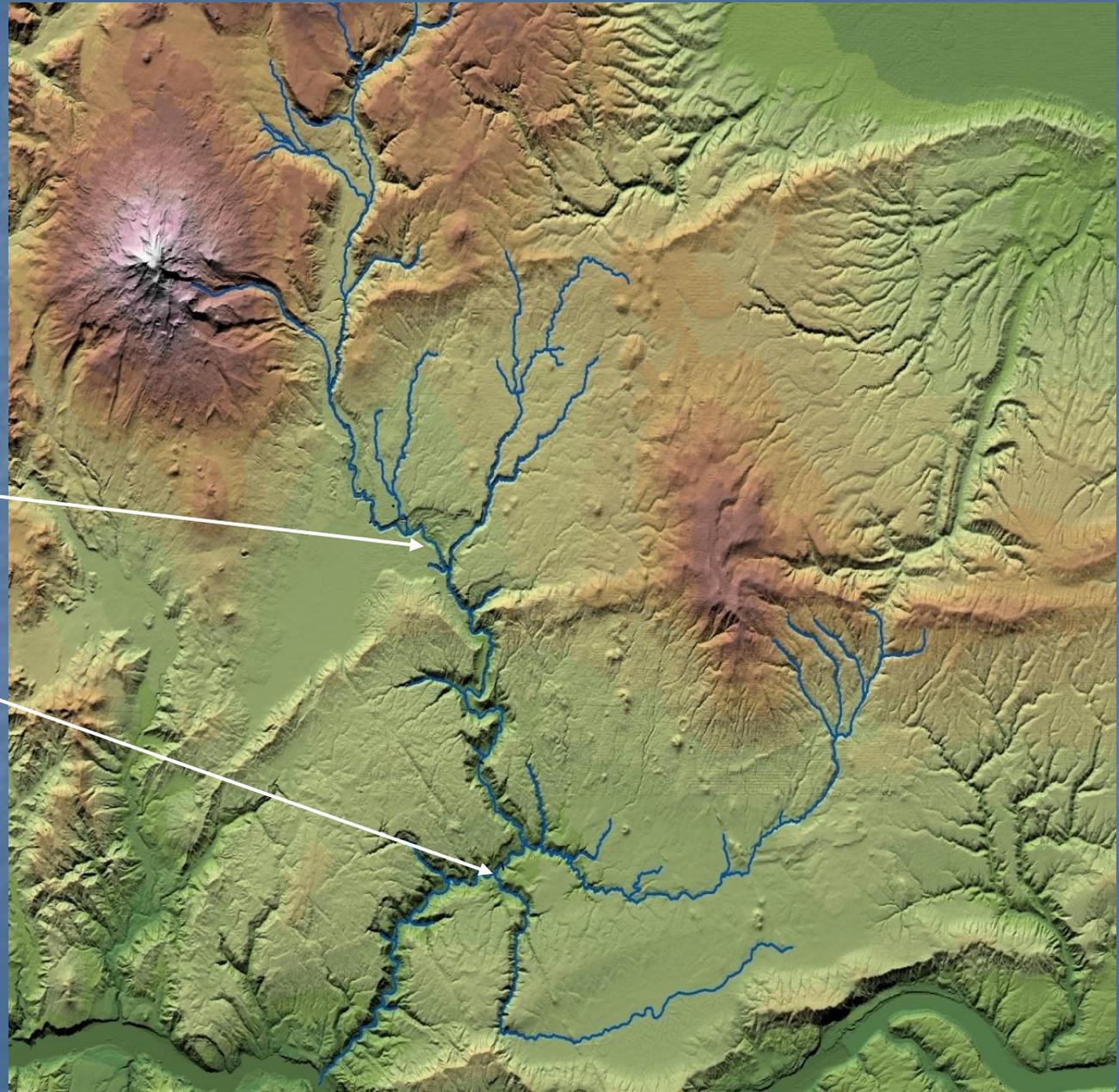
HGMPs



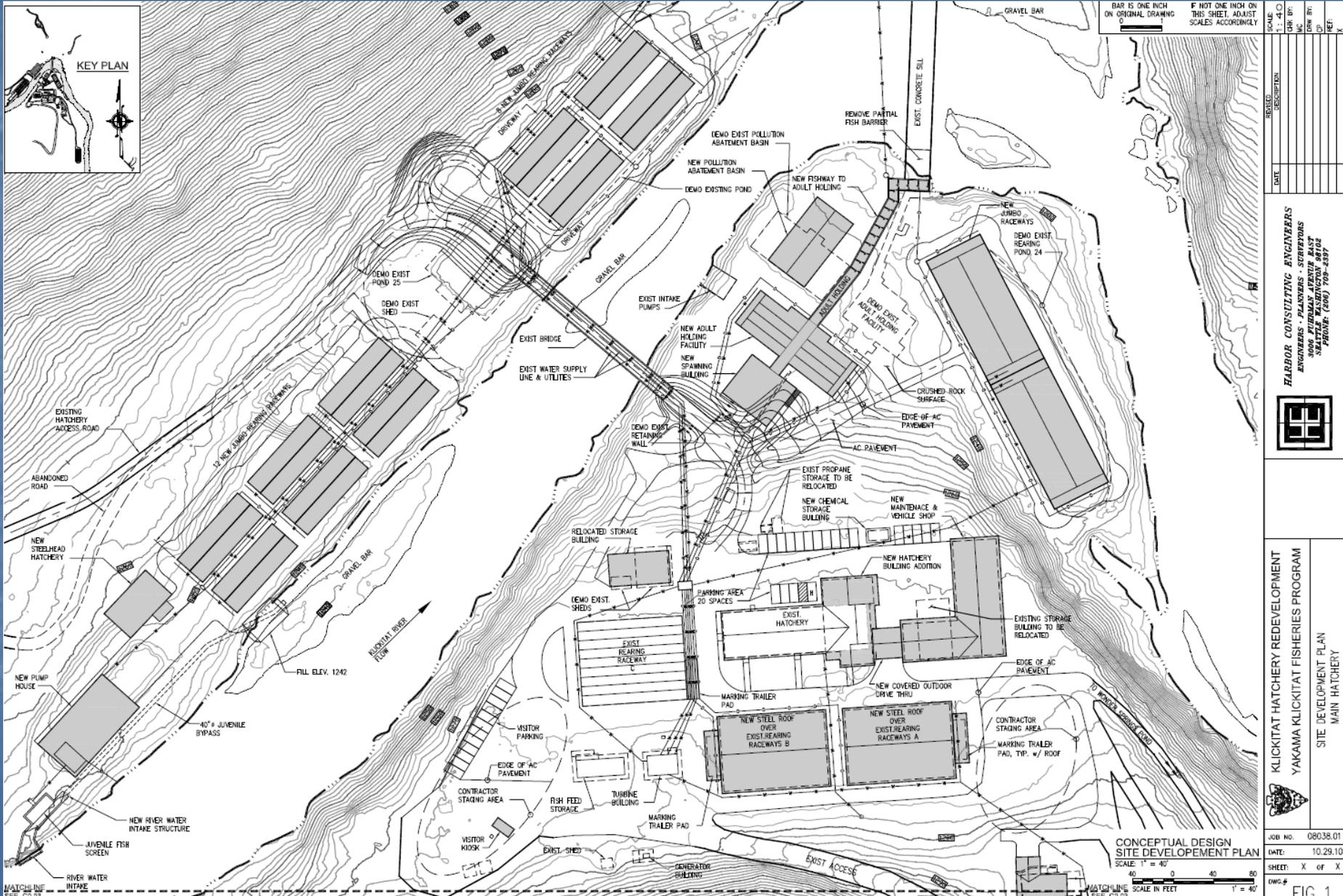
Klickitat Subbasin

Klickitat Hatchery
Rm 43.0

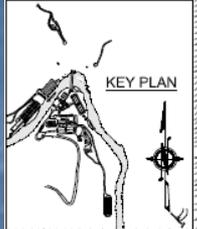
Wahkiacus Hatchery (proposed)
Rm 17.0



Klickitat Hatchery 30% Conceptual Design



SCALE: 1" = 40'
 BAR IS ONE INCH ON ORIGINAL DRAWING
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY



DATE	REVISION	DESCRIPTION

HARBOR CONSULTING ENGINEERS
 ENGINEERS • PLANNERS • SCIENTISTS
 5000 FIERMAN AVENUE EAST
 SHALLEN, WASHINGTON 98148
 PHONE: (206) 709-8337



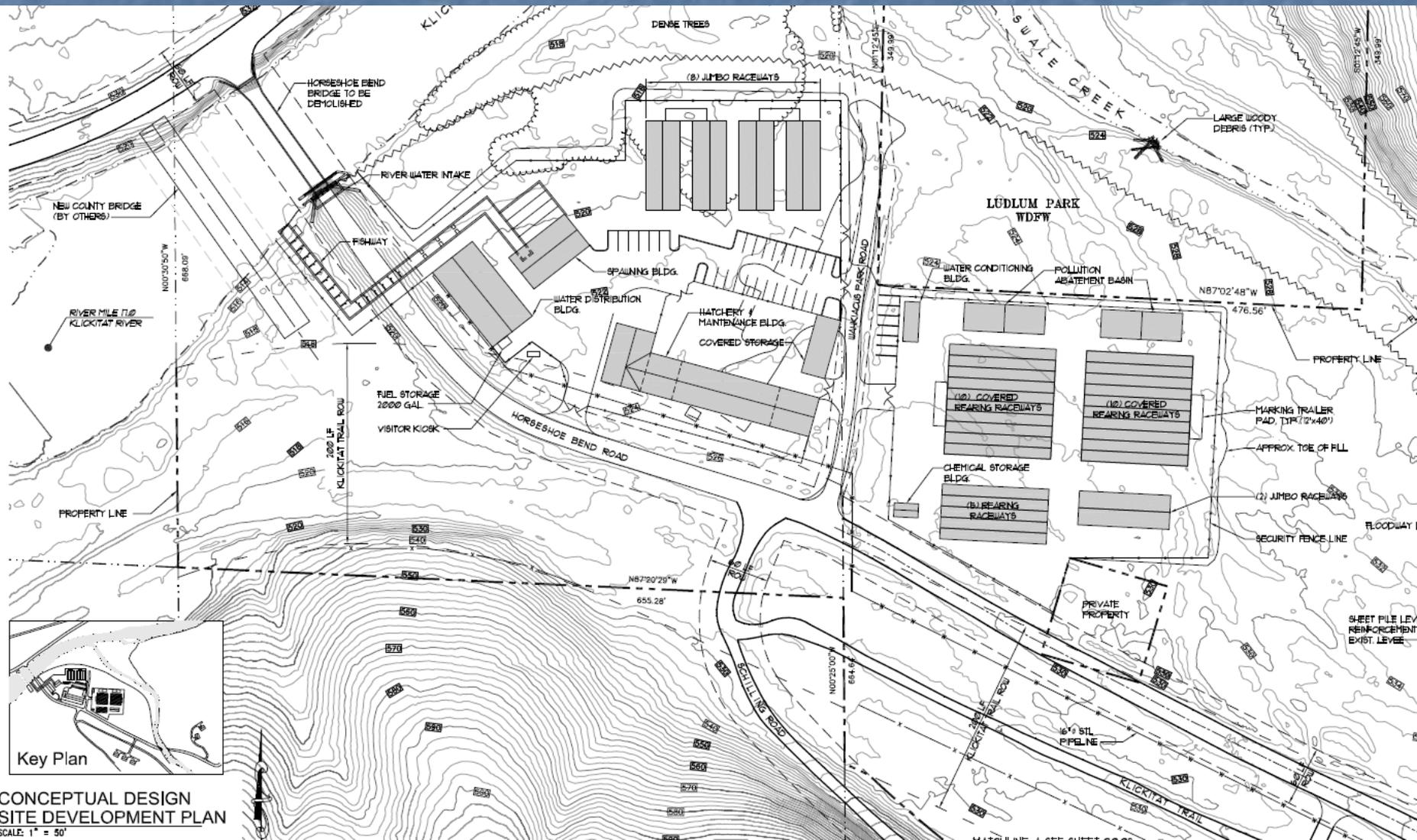
Klickitat Hatchery Redevelopment
 YAKAMA Klickitat Fisheries Program
 SITE DEVELOPMENT PLAN
 MAIN HATCHERY

JOB NO: 08038.01
 DATE: 10.29.10
 SHEET: X OF X
 DWG #

CONCEPTUAL DESIGN
 SITE DEVELOPMENT PLAN
 SCALE: 1" = 40'
 MATCH LINE SCALE IN FEET
 1" = 40'

Wahkiacus Hatchery 30% Conceptual Design

Key to Hatchery Reform, "Free up" 26 miles of quality spawning/rearing habitat



Project Funding:

Bonneville Power Administration
National Marine Fisheries Service
Yakama Nation

Project website: ykfp.org/klickitat

