

Overall Site Plan and Key Map

APPLICANT:
Chehalis River Basin Flood Control Zone District

DATUM: North American Datum 1983

ADJACENT PROPERTY OWNERS:
See Appendix C for full list of property owners

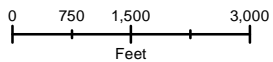
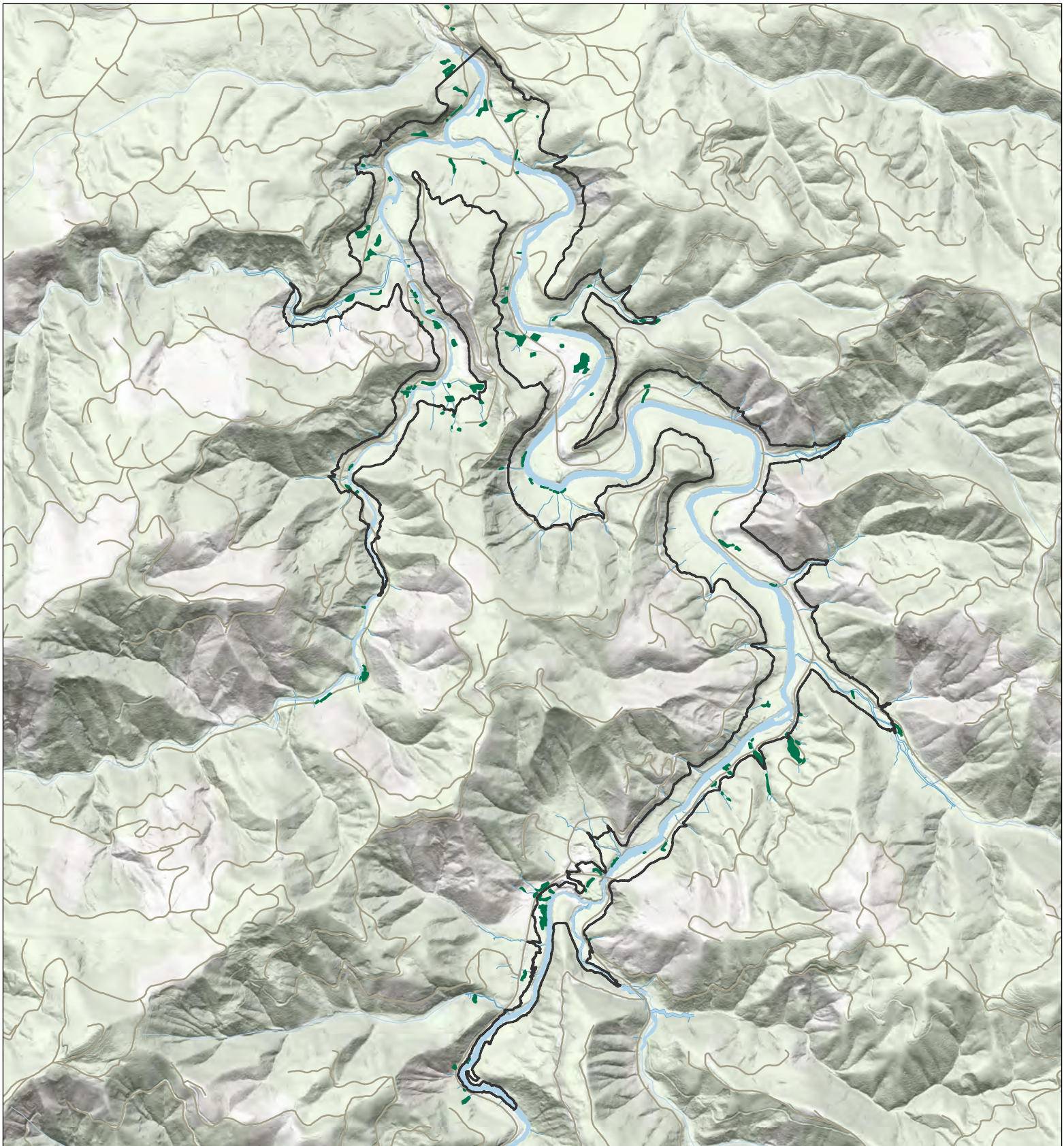
Chehalis River Basin Flood Damage Reduction Project

REFERENCE #: NWS-2014-1118

LAT/LONG:
FRE Facility: 46.545080, -123.298656
Airport Levee: 46.681091, -122.985087

PROPOSED PROJECT:
Construct floodwater retention facility and associated infrastructure, and raise levee at the Centralia-Chehalis Airport

IN: Chehalis River, Tributaries, and Wetlands
NEAR: Pe Ell, and Chehalis
COUNTY: Pacific and Lewis County **STATE:** WA
SHEET: 1 of 22 **DATE:** 7/29/2020



ANCHOR QEA WETLAND AND
STREAM DELINEATION STUDY AREA
(WSEL 628FT) MAXIMUM EXTENT
OF TEMPORARY INUNDATION POOL
(MAX EXTENT OF TEMP. INUNDATION)



DELINEATED WETLAND
(ANCHOR QEA 2018)



DELINEATED STREAMS
(ANCHOR QEA 2018)

Existing Conditions FRE Facility

APPLICANT:
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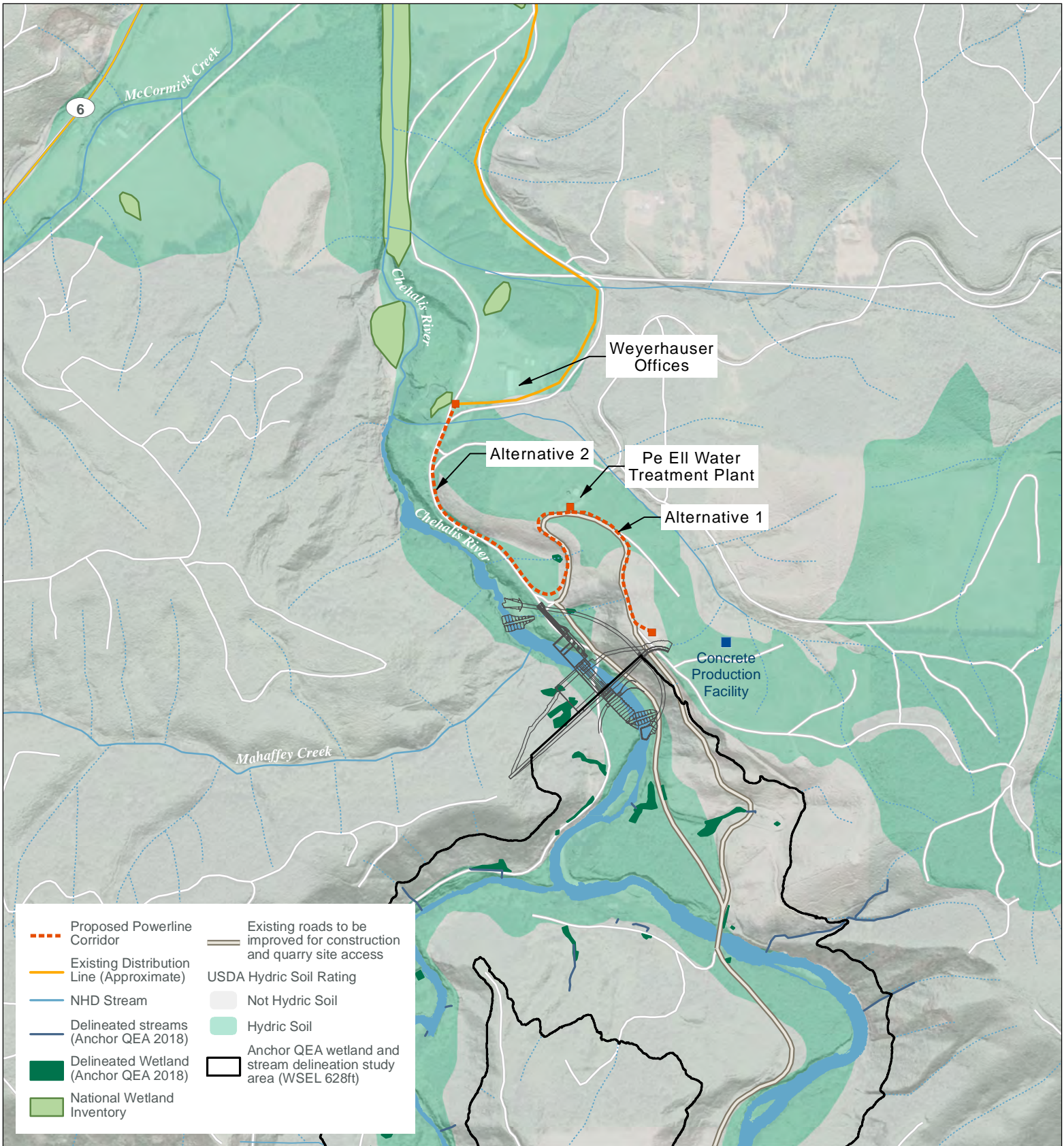
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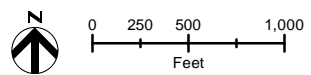
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- - - Proposed Powerline Corridor
- Existing Distribution Line (Approximate)
- NHD Stream
- - - Delineated streams (Anchor QEA 2018)
- Delineated Wetland (Anchor QEA 2018)
- National Wetland Inventory
- Existing roads to be improved for construction and quarry site access
- USDA Hydric Soil Rating
 - Not Hydric Soil
 - Hydric Soil
- Anchor QEA wetland and stream delineation study area (WSEL 628ft)



Existing Conditions Powerline Corridor

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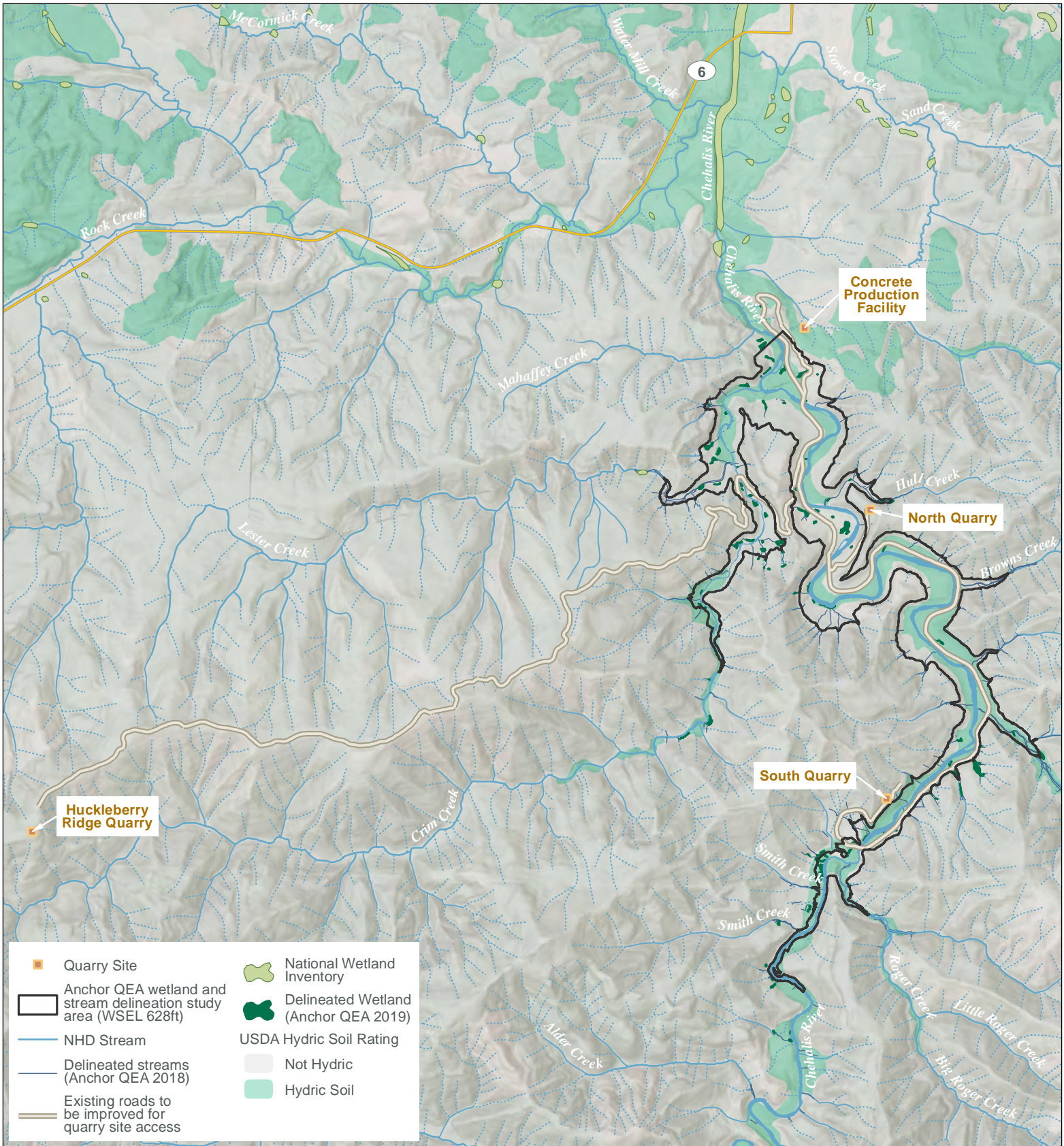
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Existing Conditions Quarry Sites and Proposed Access

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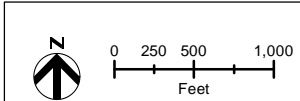
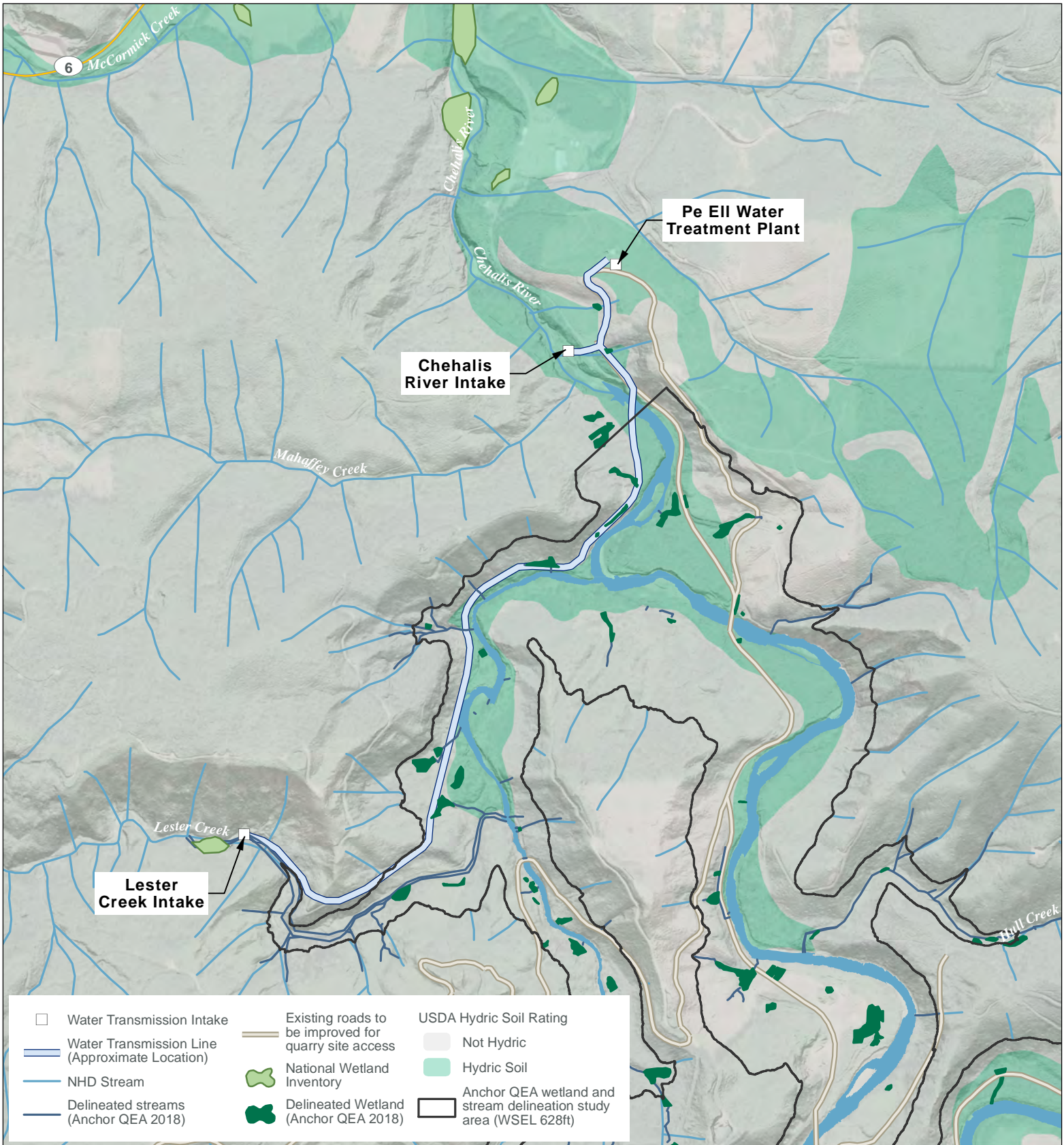
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Existing Conditions Pe Ell Water Line

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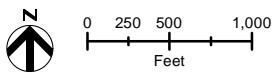
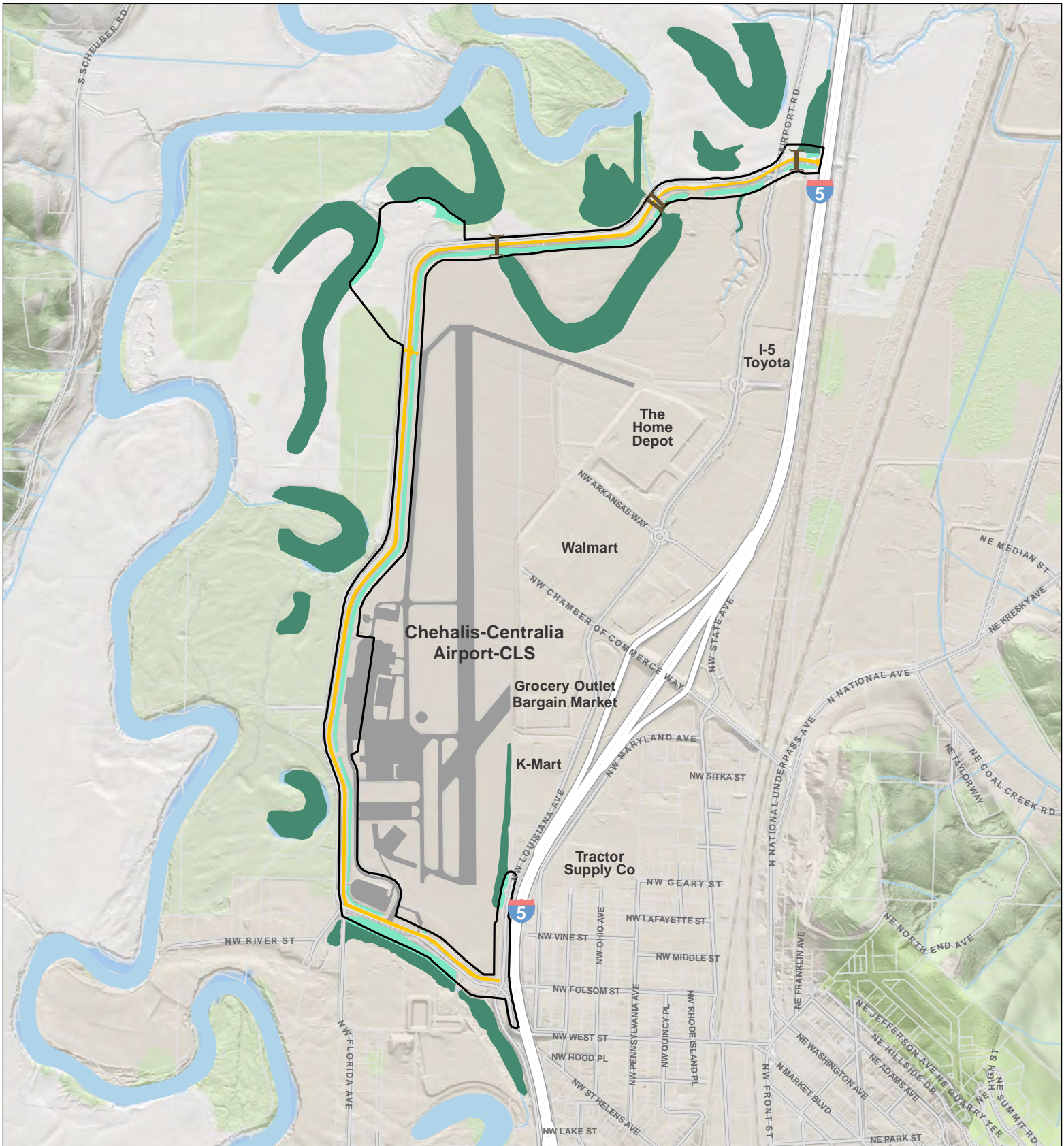
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-  Culverts
-  Levee
-  Delineated Wetland (Anchor QEA 2019)
-  Airport
-  Levee Study Area
-  Estimated Wetland

Existing Conditions Chehalis-Centralia Airport Levee

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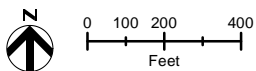
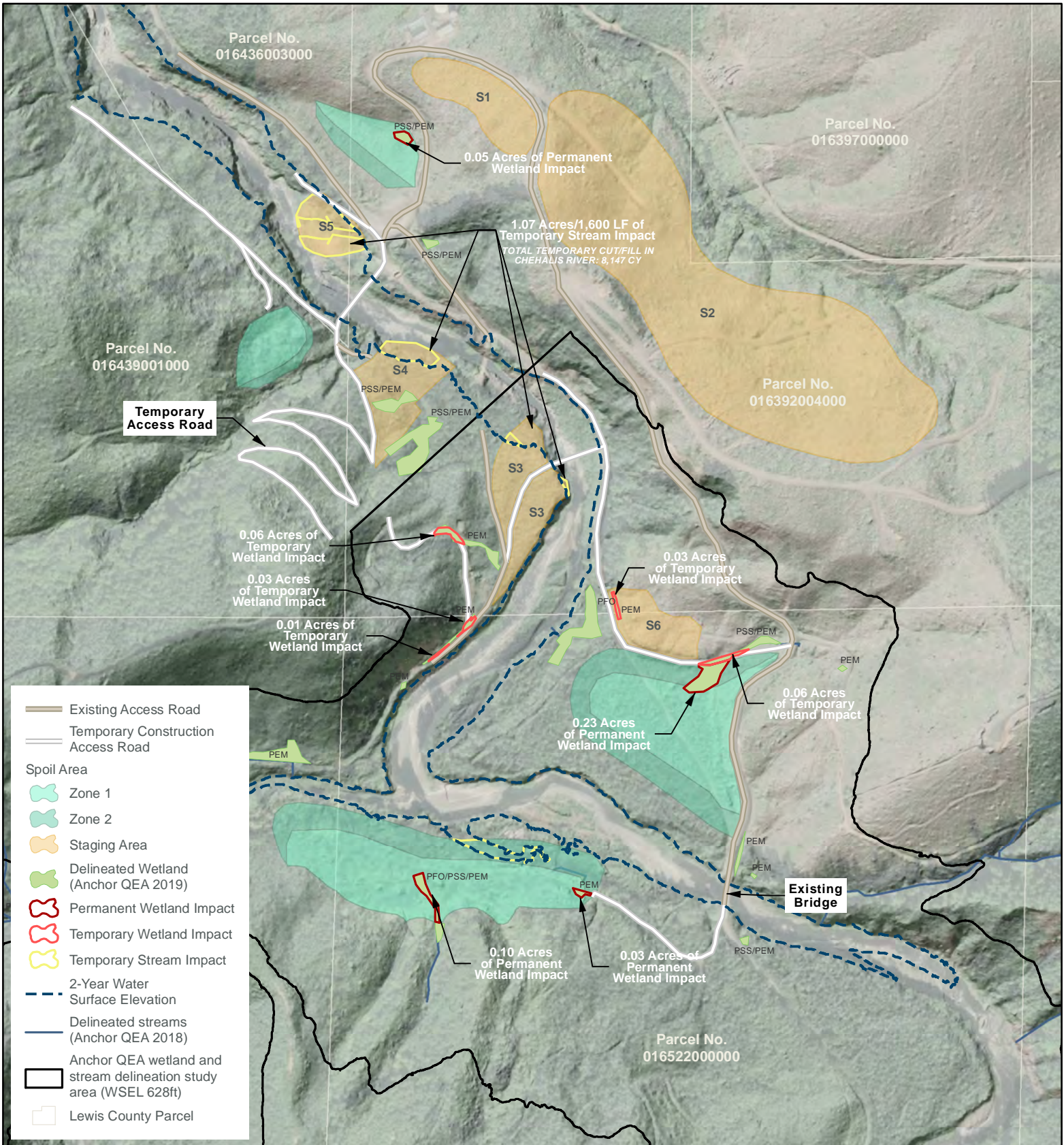
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Total Wetland Cut/Fill:
 Temporary: 762 CY
 Permanent: 3,273 CY

Total Temporary Cut/Fill In Chehalis River: 8,147 CY

FRE Facility Construction Access and Staging

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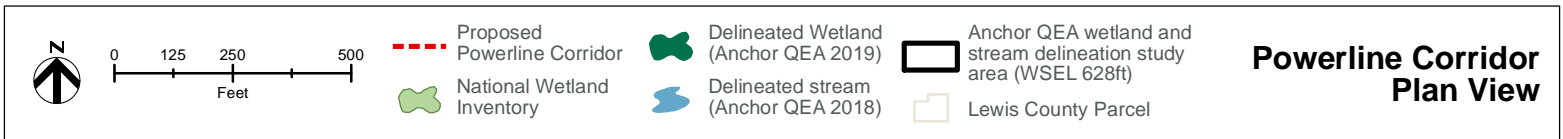
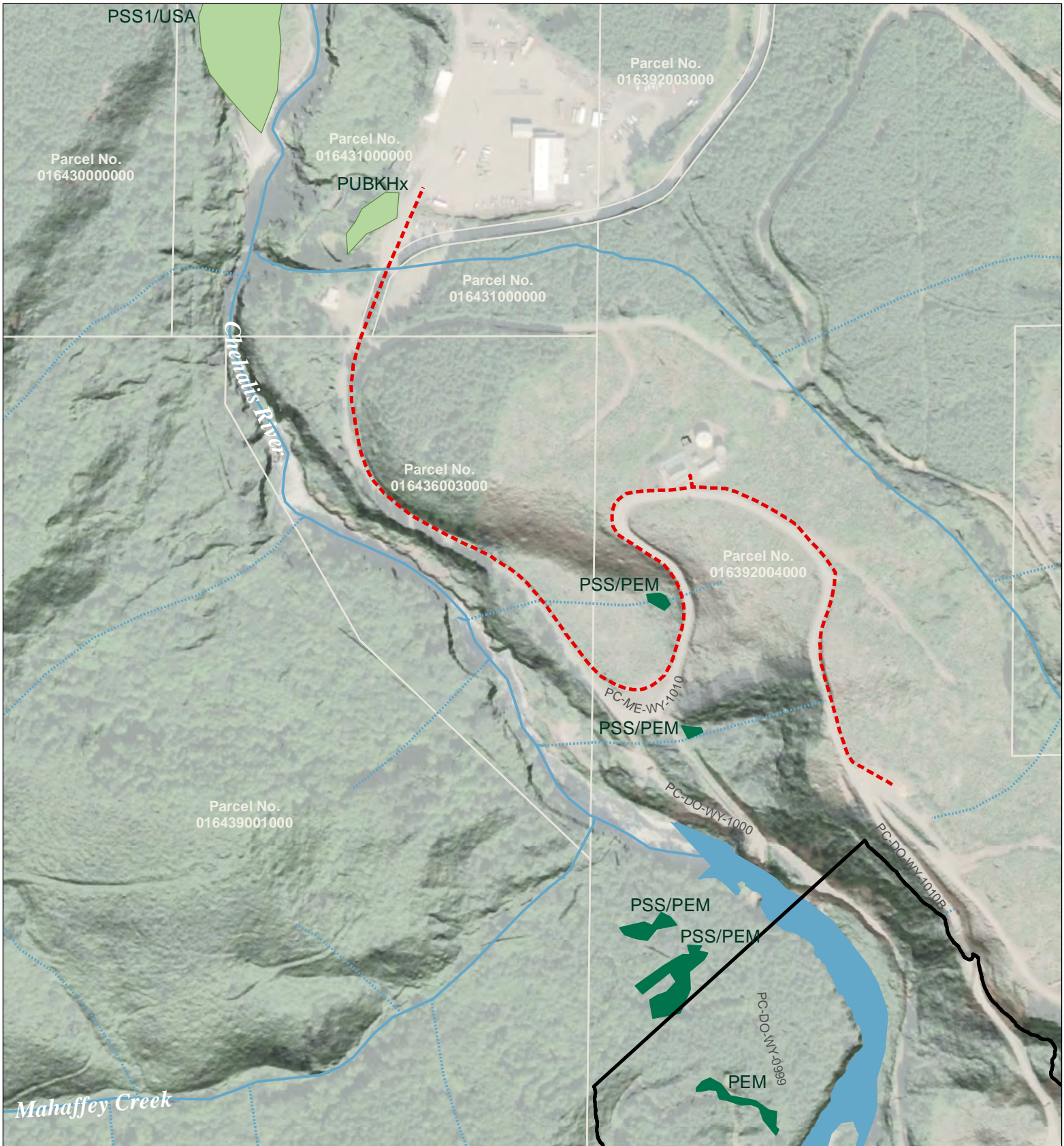
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Powerline Corridor Plan View

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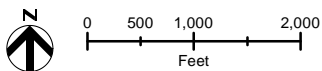
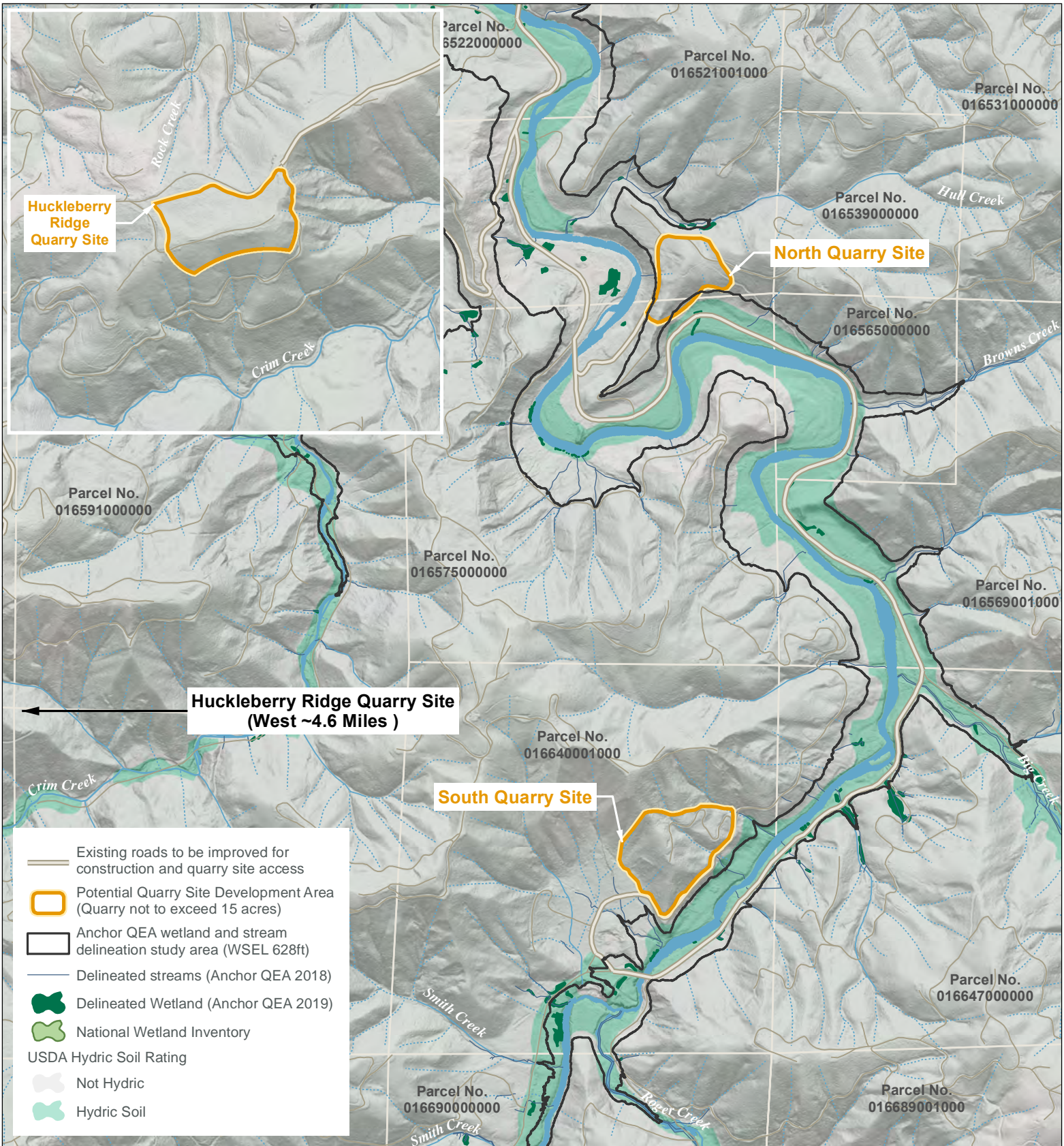
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Potential Quarry Sites – Plan View

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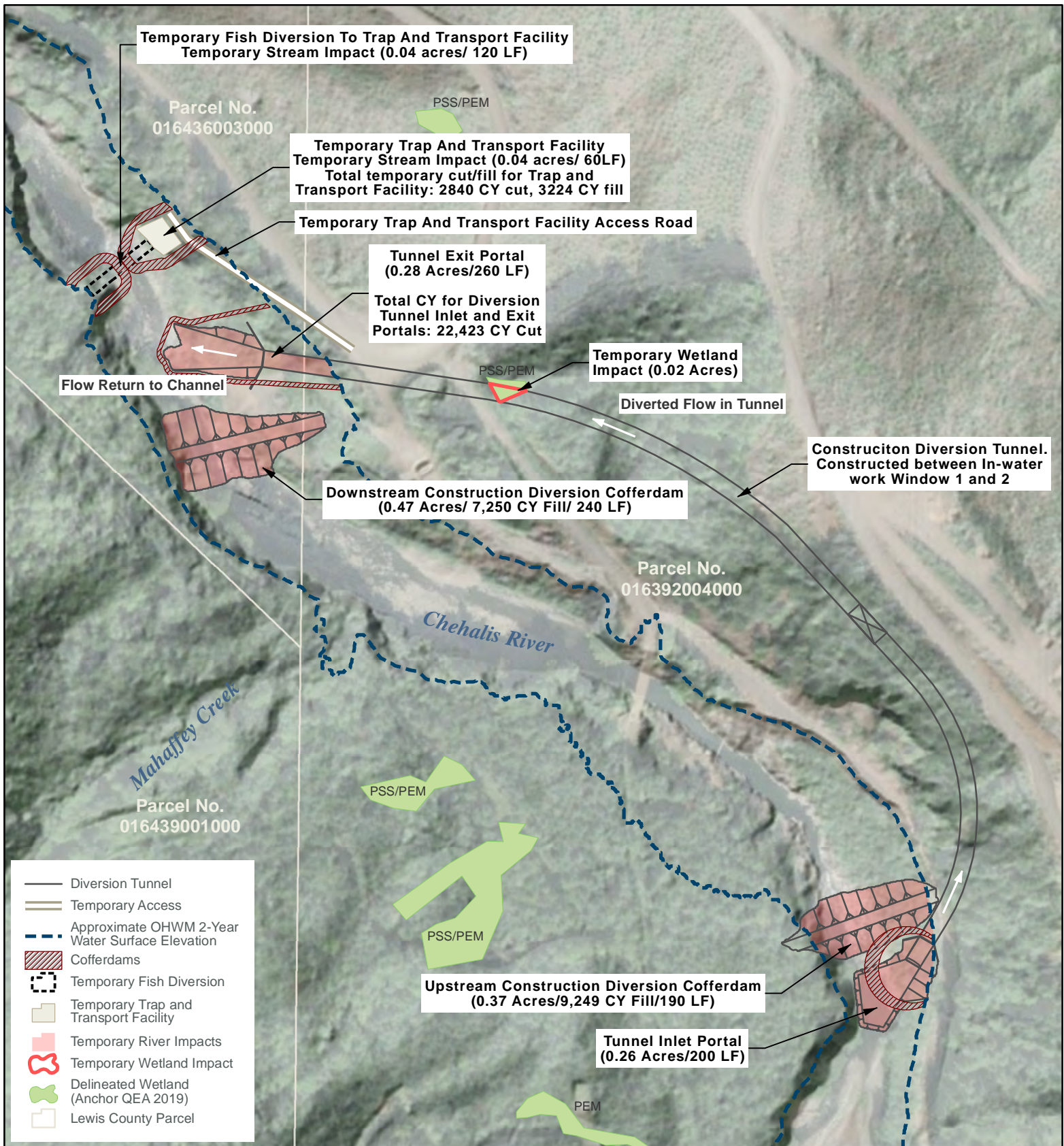
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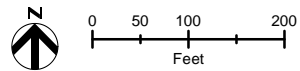
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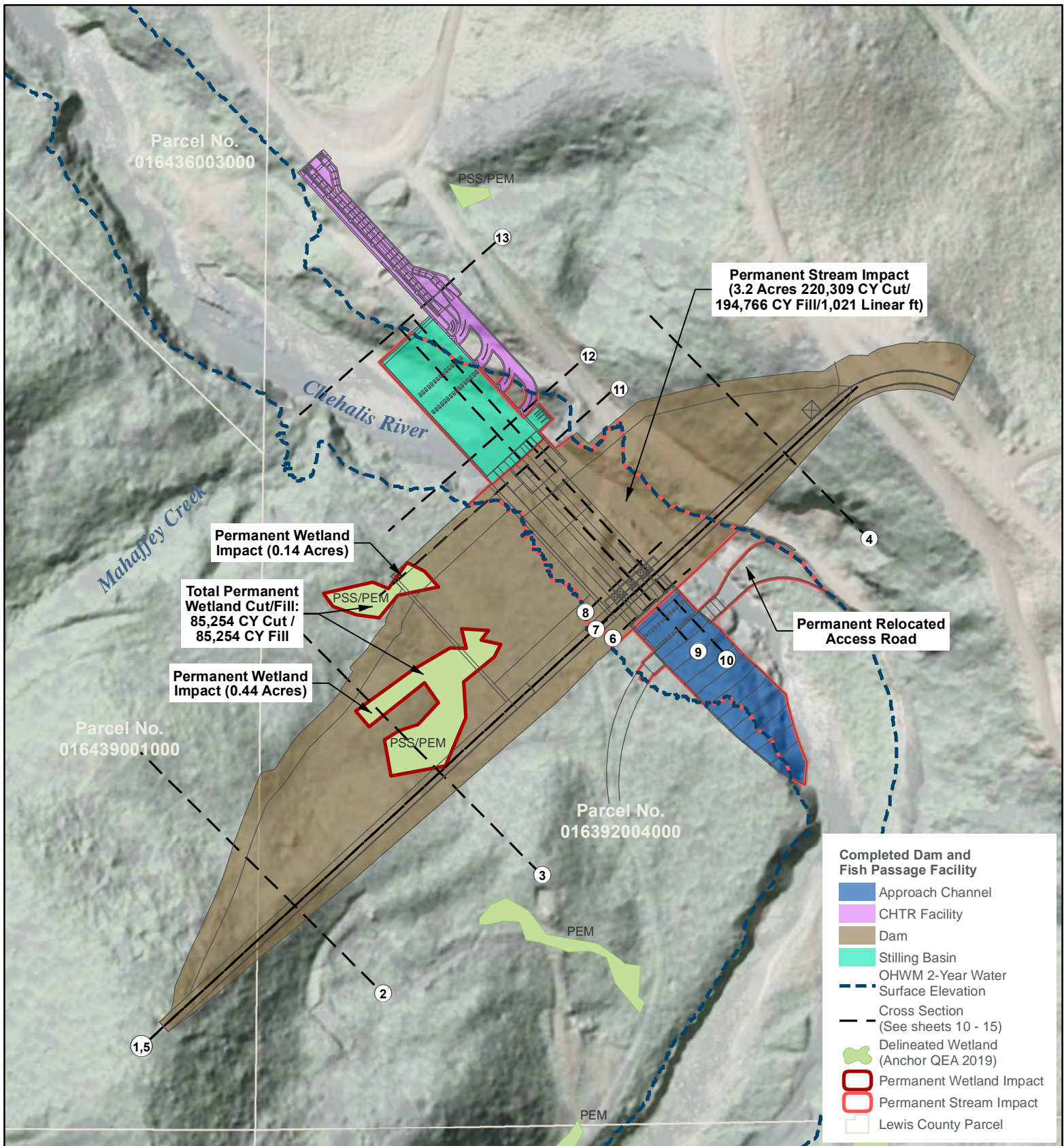


- Diversion Tunnel
- Temporary Access
- - - Approximate OHWM 2-Year Water Surface Elevation
- ▨ Cofferdams
- ▨ Temporary Fish Diversion
- ▨ Temporary Trap and Transport Facility
- ▨ Temporary River Impacts
- ▨ Temporary Wetland Impact
- ▨ Delineated Wetland (Anchor QEA 2019)
- ▨ Lewis County Parcel



River Bypass - Plan And Temporary Trap And Transport Facility

<p>APPLICANT: Chehalis River Basin Flood Control Zone District</p> <p>DATUM: North American Datum 1983</p> <p>ADJACENT PROPERTY OWNERS: See Appendix C for full list of property owners</p>	<p>Chehalis River Basin Flood Damage Reduction Project</p> <p>REFERENCE #: NWS-2014-1118</p> <p>LAT/LONG: FRE Facility: 46.545080, -123.298656 Airport Levee: 46.681091, -122.985087</p>	<p>PROPOSED PROJECT: Construct floodwater retention facility and associated infrastructure, and raise levee at the Centralia-Chehalis Airport</p> <p>IN: Chehalis River, Tributaries, and Wetlands NEAR: Pe Ell, and Chehalis COUNTY: Pacific and Lewis County STATE: WA SHEET: 10 of 22 DATE: 7/29/2020</p>
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FRE and CHTR Proposed Conditions – Plan View

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 Chehalis River Basin Flood Control Zone District

DATUM: North American Datum 1983

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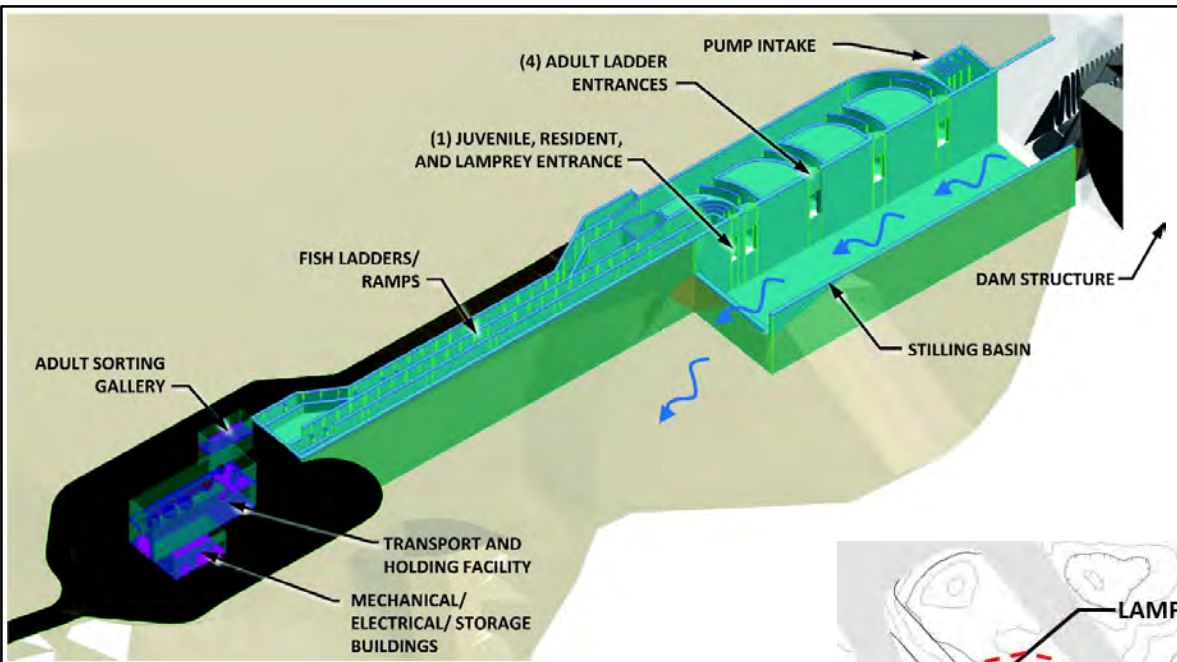
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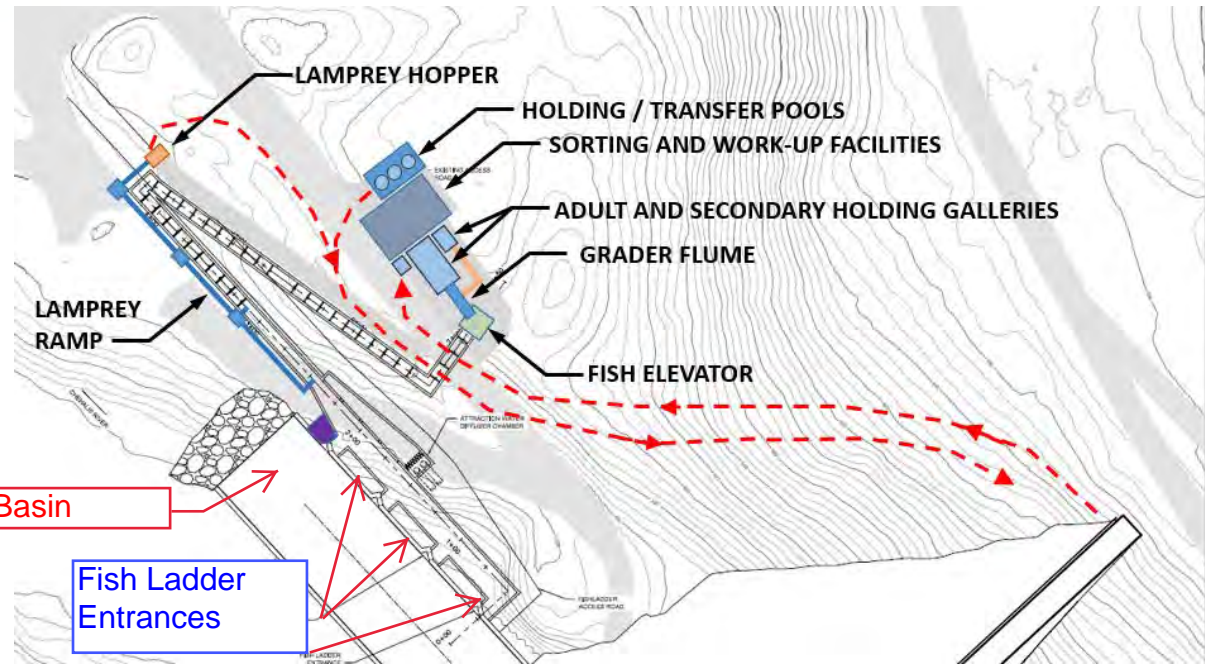
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Isometric View of CHTR Fish Passage Facility

CHTR Plan View



Stilling Basin

Fish Ladder Entrances

Proposed CHTR Fish Passage Facility

APPLICANT:
Chehalis River Basin Flood Control Zone District

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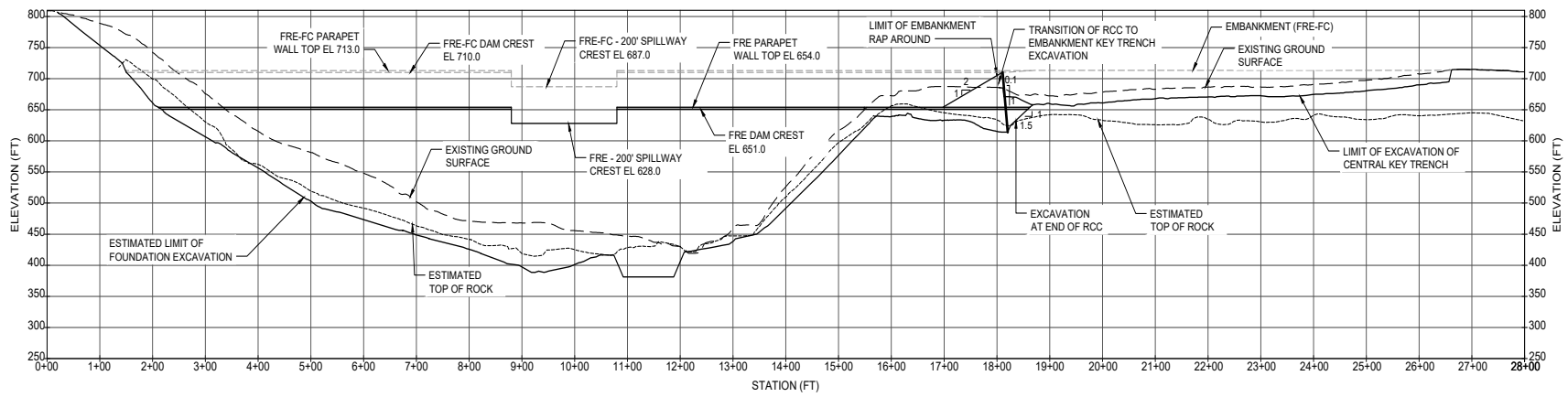
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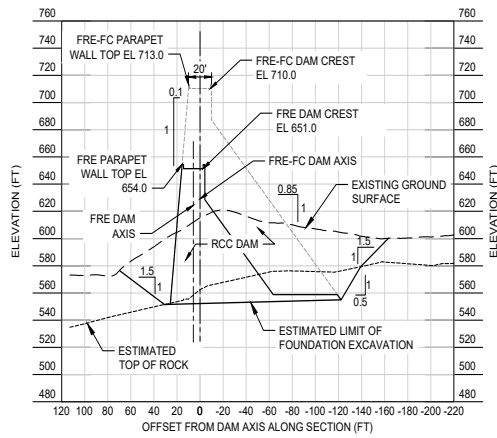
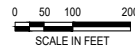
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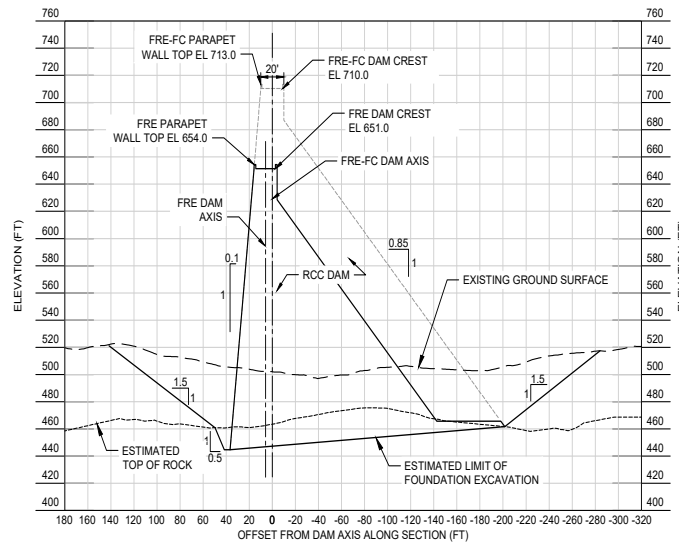
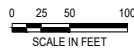
IN: Chehalis River, Tributaries, and Wetlands
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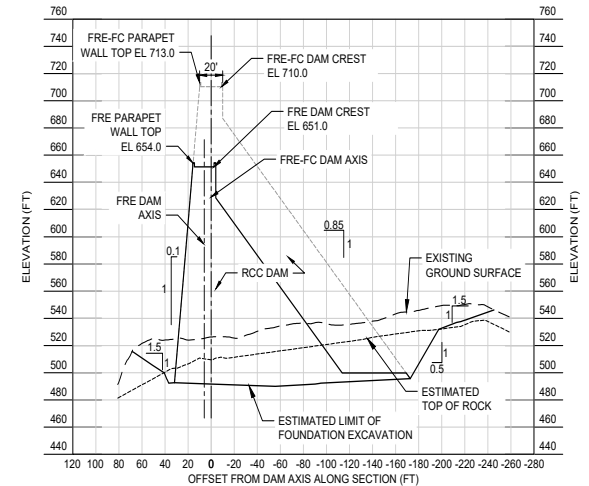
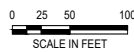
DAM EXCAVATION PROFILE 1



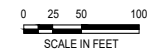
DAM EXCAVATION TYPICAL SECTION 2



DAM EXCAVATION TYPICAL SECTION 3



DAM EXCAVATION TYPICAL SECTION 4



FRE Dam Dam Excavation Profile and Typical Sections

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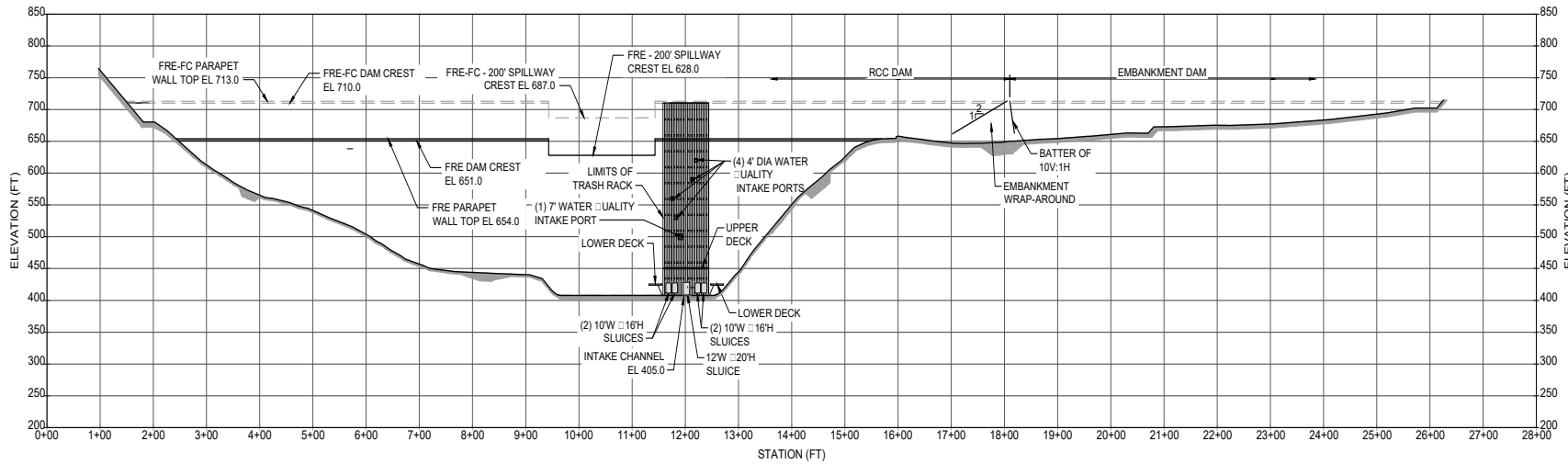
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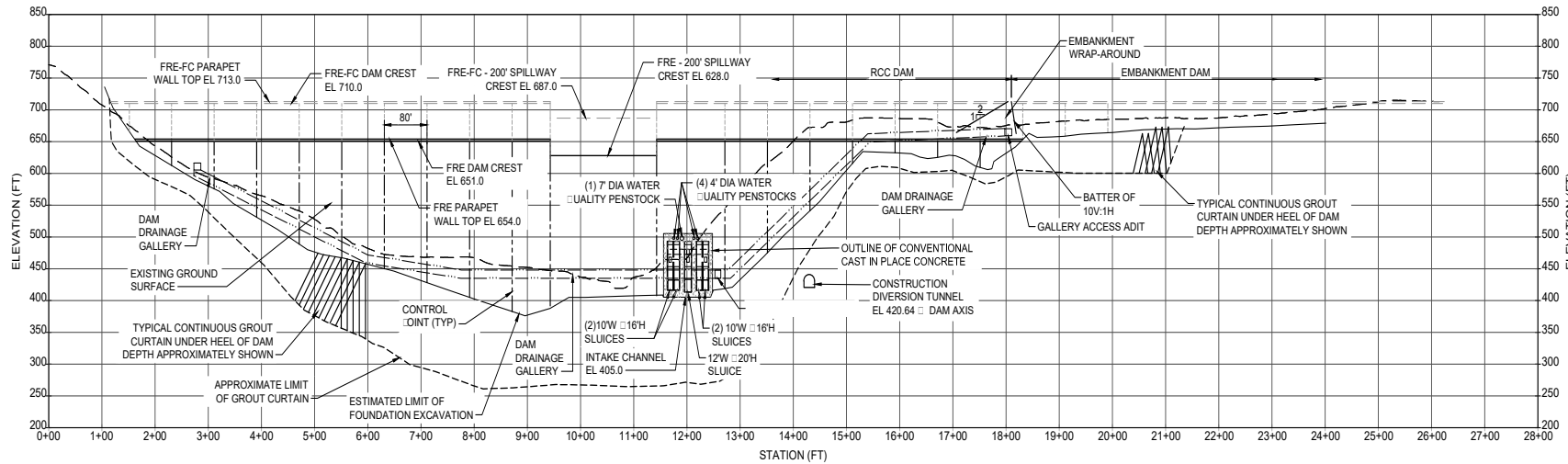
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DAM ELEVATION VIEW 5

0 50 100 200
SCALE IN FEET



SECTION ALONG DAM AXIS 5

0 50 100 200
SCALE IN FEET

FRE Dam Dam Elevation View and Dam Exis Section

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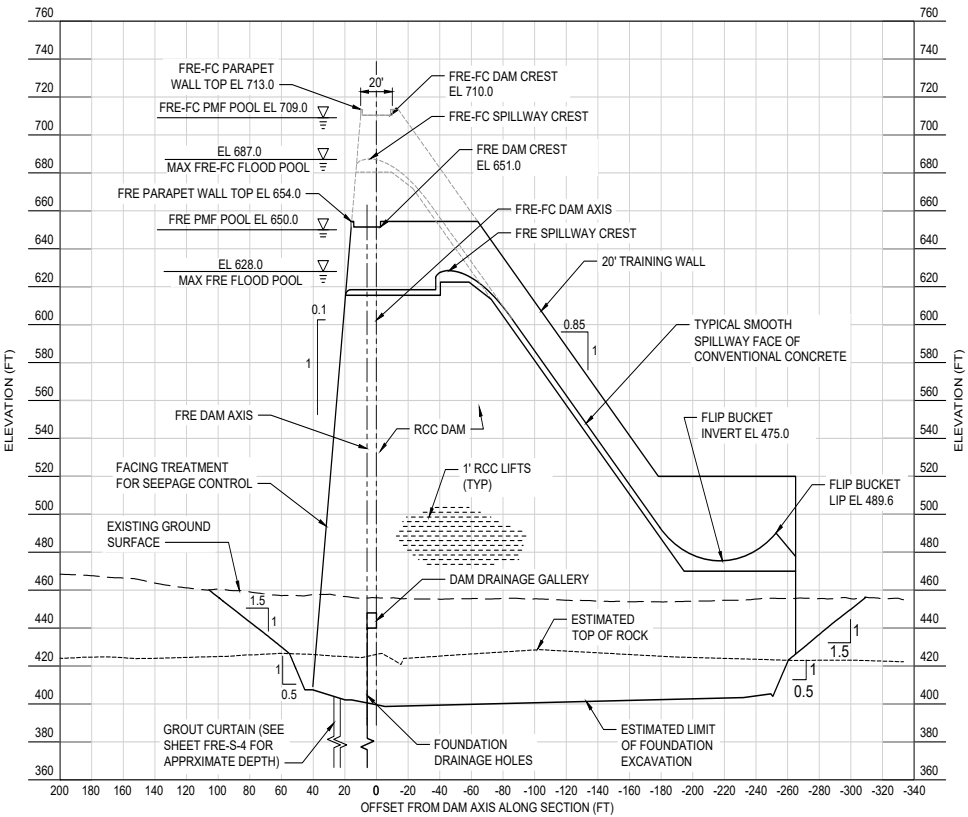
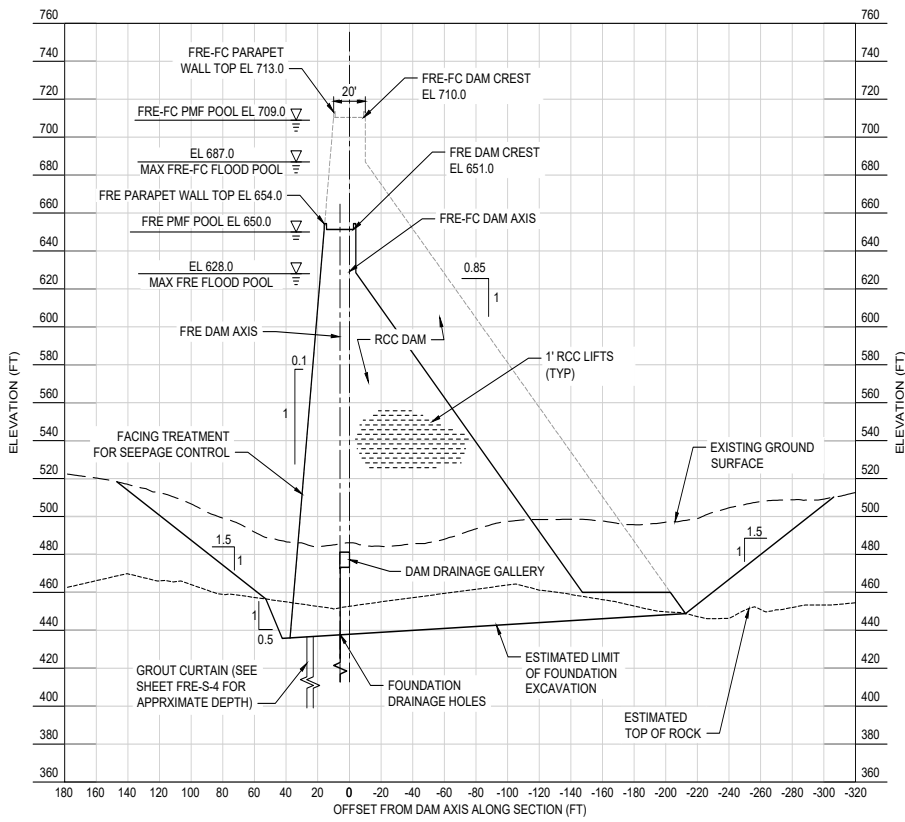
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FRE Dam Typical Dam and Spillway

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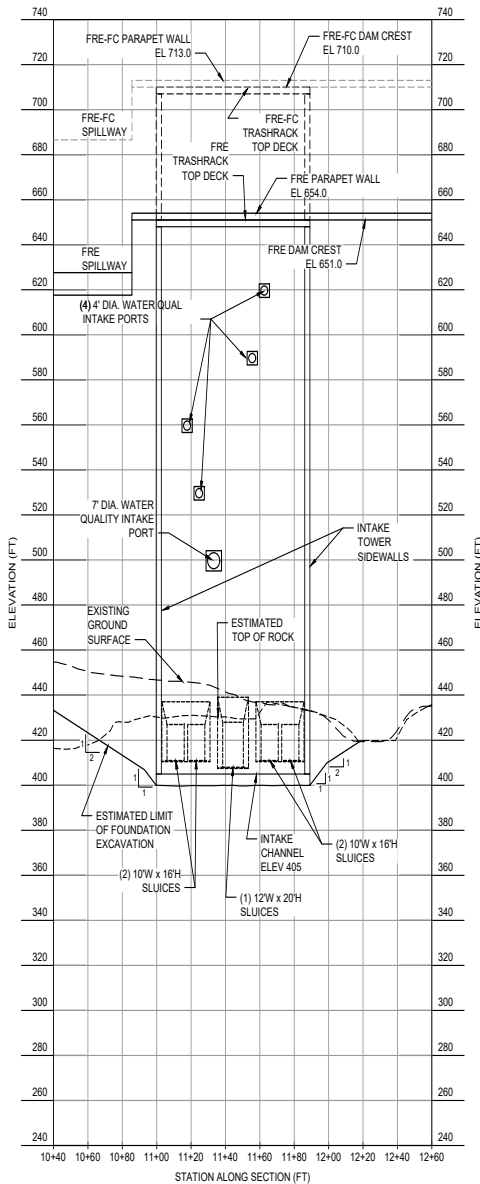
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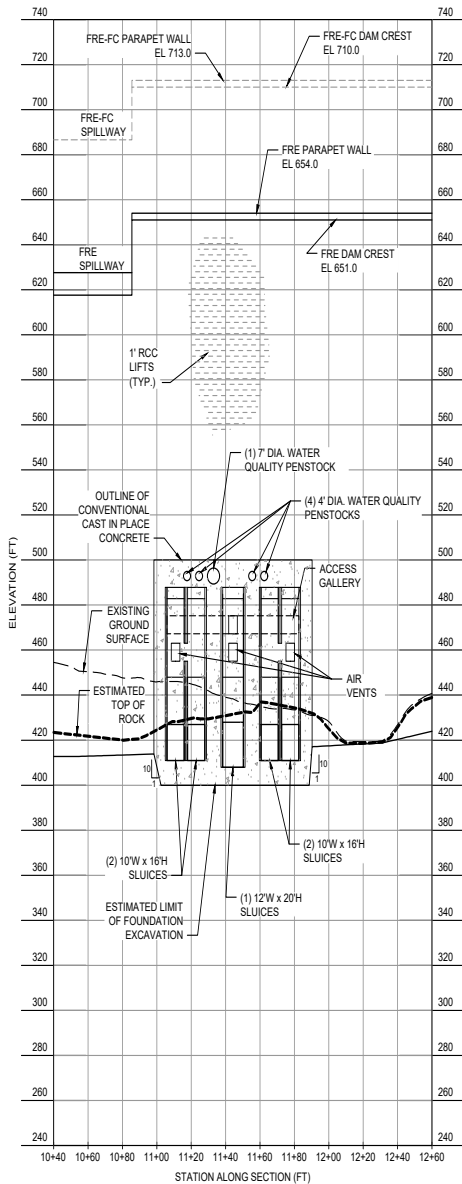
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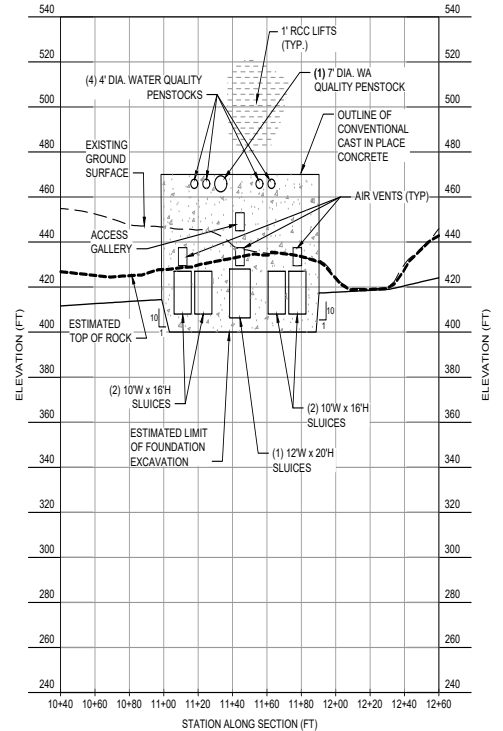
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SECTION 6



SECTION 7



SECTION 8

FRE Dam Intake Tower and Sluices

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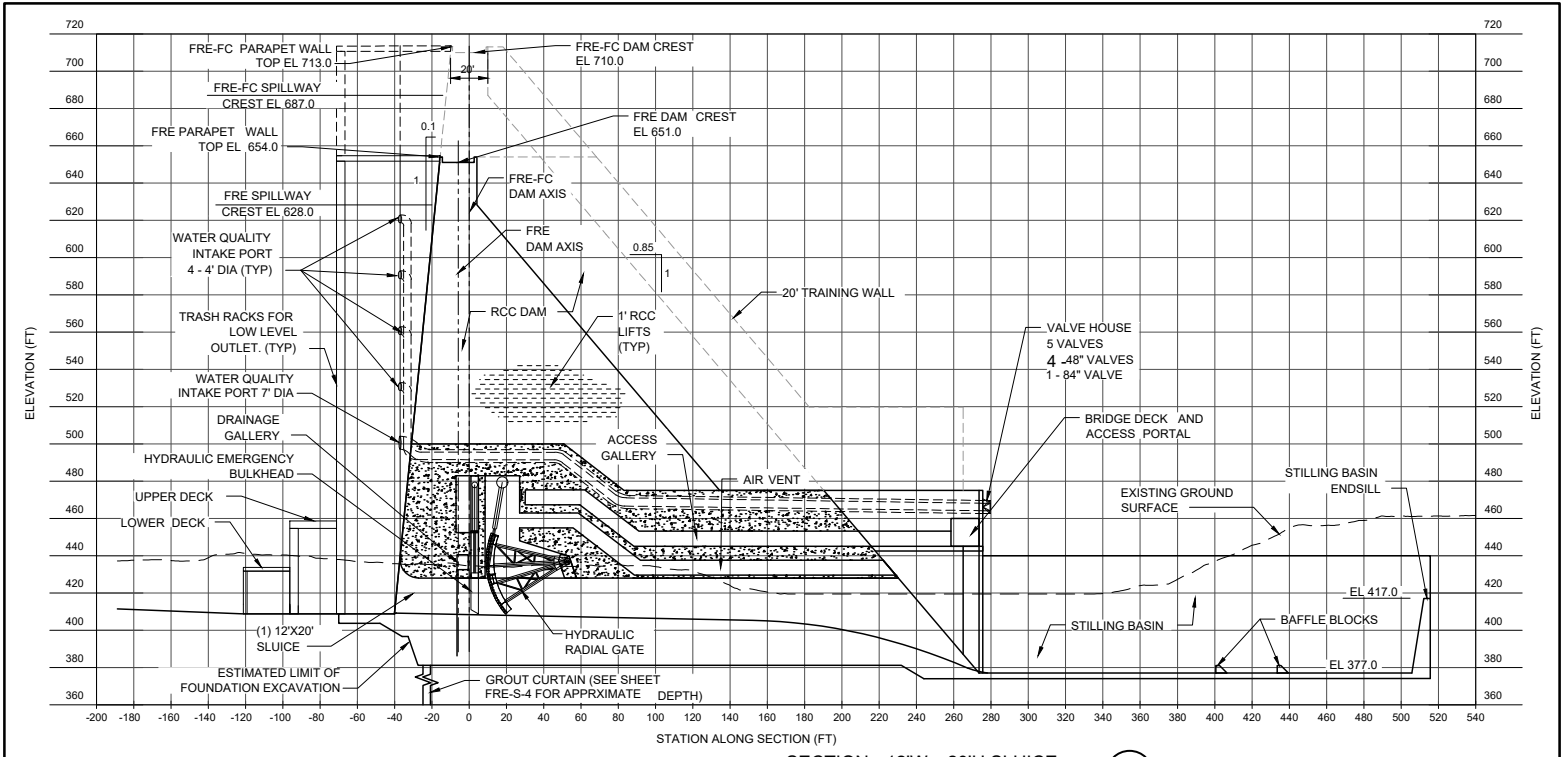
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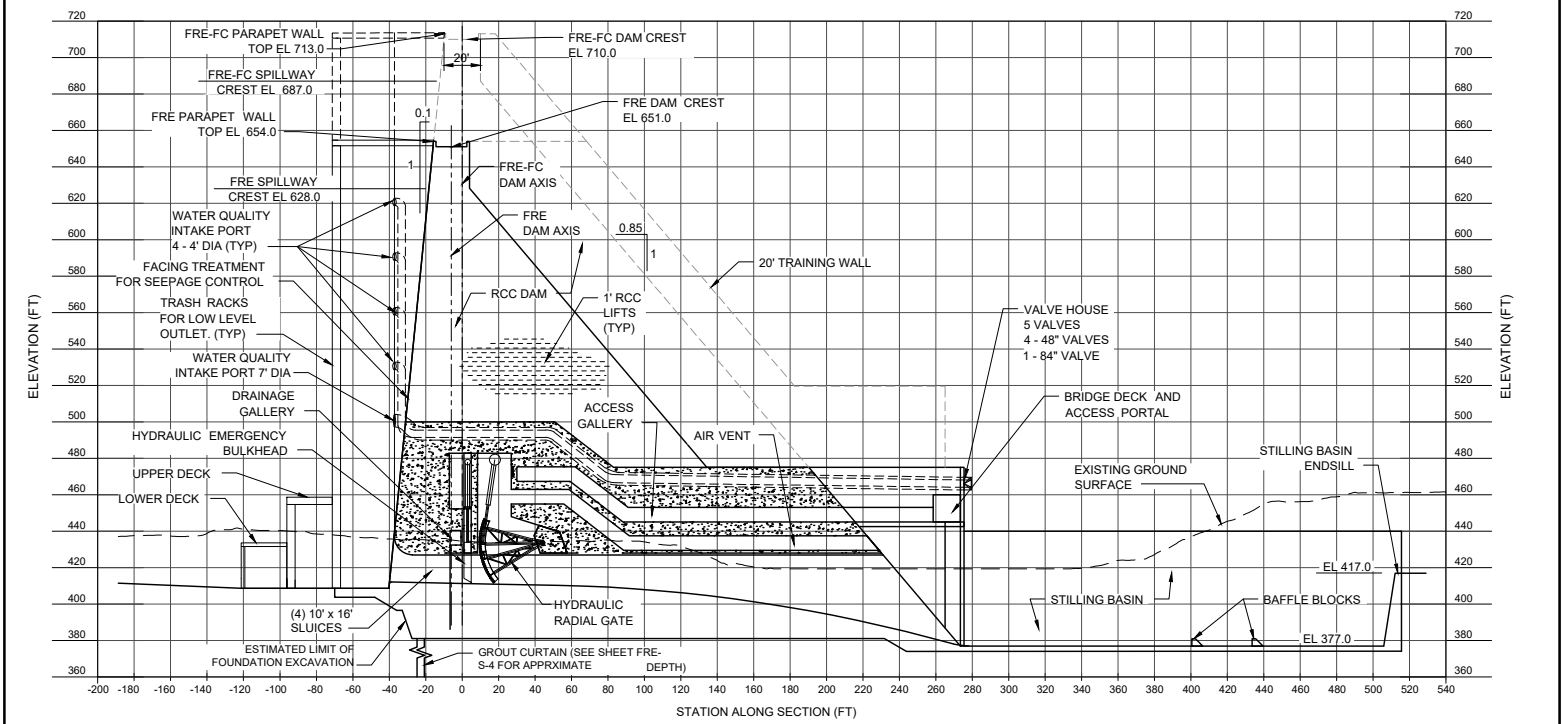
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SECTION - 12'W x 20'H SLUICE 9



SECTION - 10'W x 16'H SLUICE 10

FRE Dam Low Levels Sluices Longitudinal Sections

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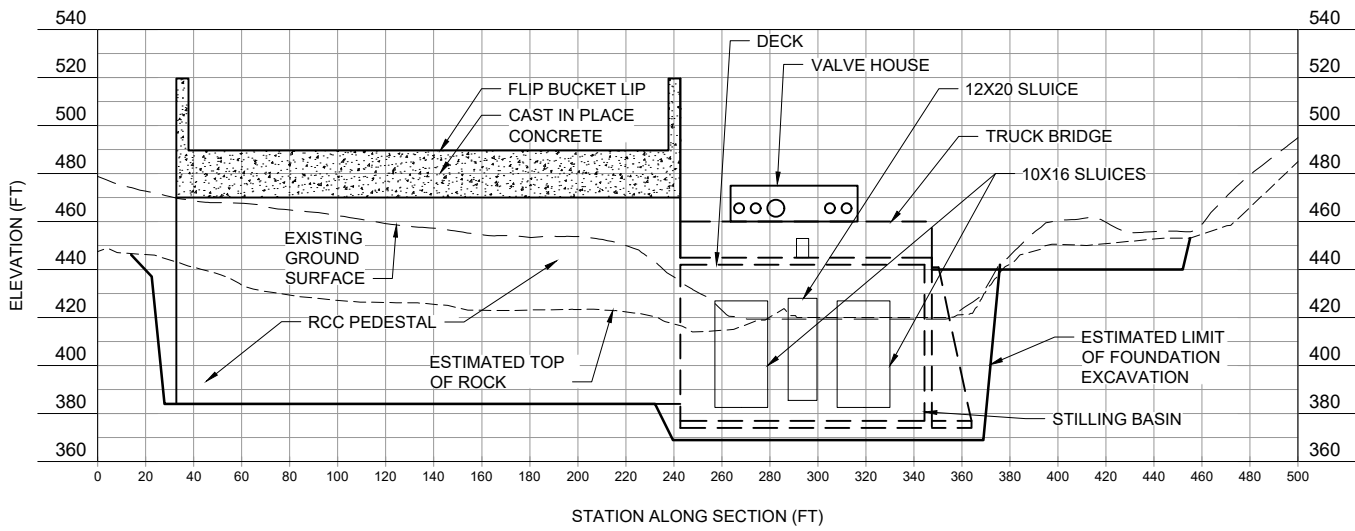
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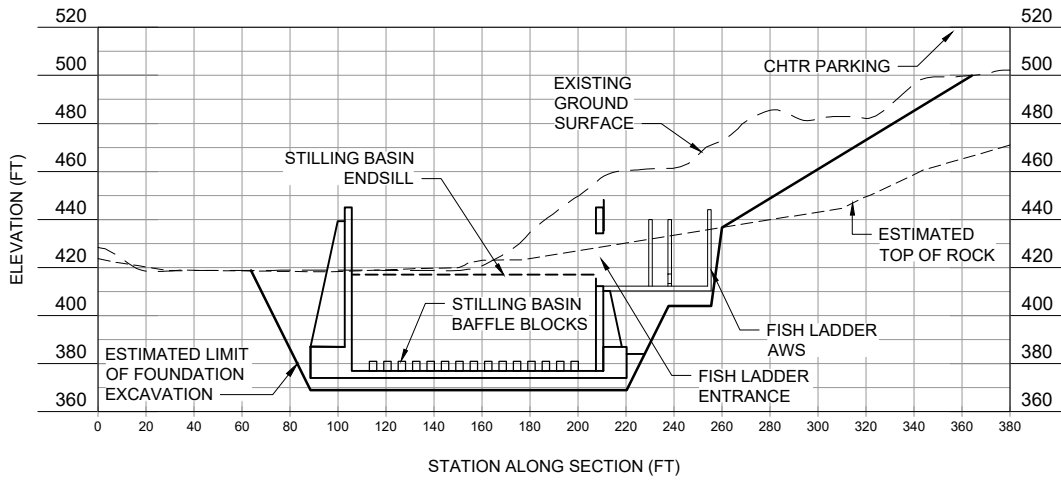
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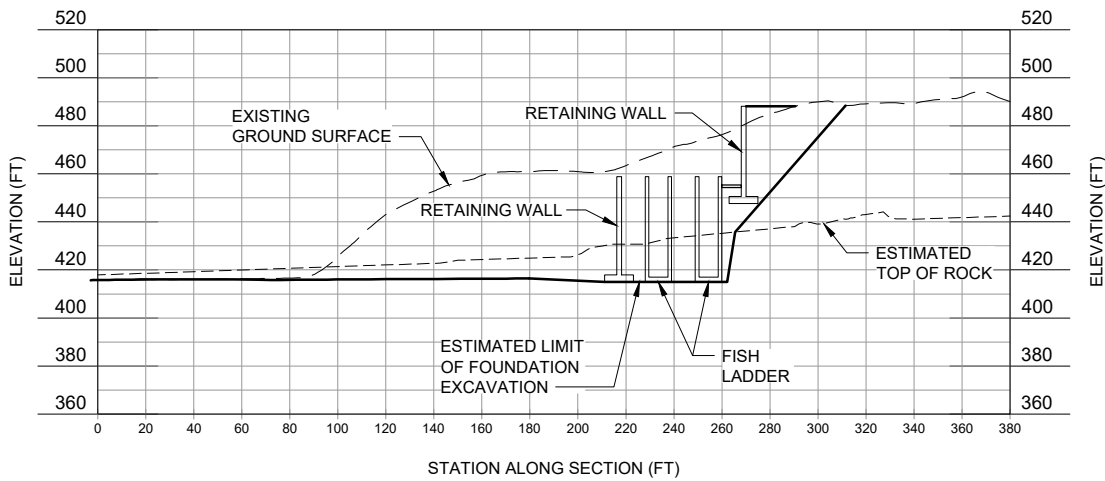
SECTION

11



SECTION

12



SECTION

13

**FRE Dam
Stilling Basin Sections**

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Chehalis River Basin Flood Damage Reduction Project







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 	 DEBRIS MANAGEMENT SORTING YARD	 TEMPORARY WETLAND IMPACT
	 DELINEATED OHWM (ANCHOR QEA 2018)	 DELINEATED WETLAND (ANCHOR QEA 2018)

FRE Debris Management Sorting Yard

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Chehalis River Basin Flood Control Zone District

DATUM: North American Datum 1983

ADJACENT PROPERTY OWNERS:
See Appendix C for full list of property owners

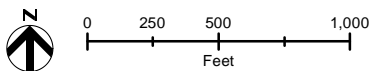
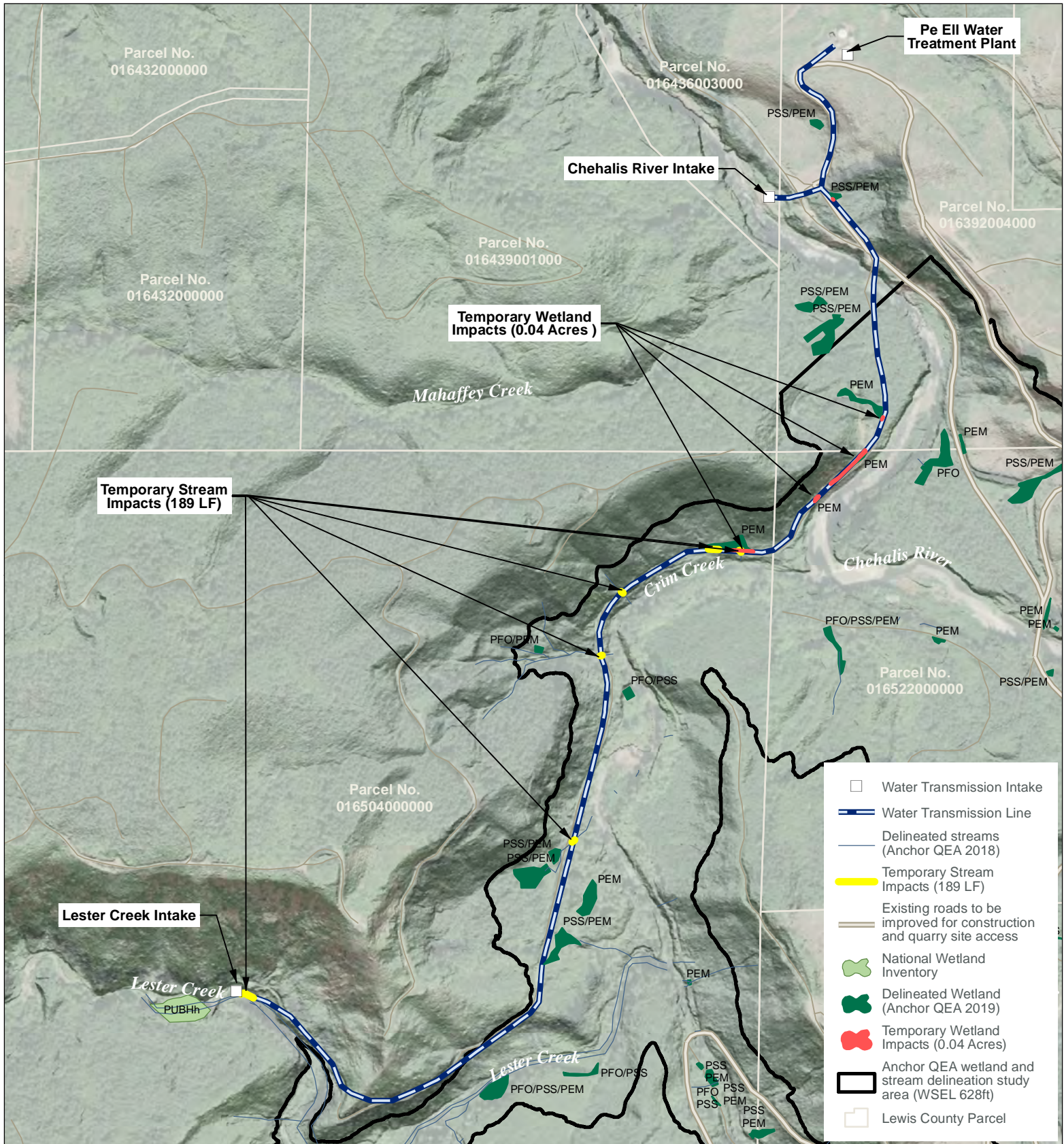
Chehalis River Basin Flood Damage Reduction Project

REFERENCE #: NWS-2014-1118

LAT/LONG:
FRE Facility: 46.545080, -123.298656
Airport Levee: 46.681091, -122.985087

PROPOSED PROJECT:
Construct floodwater retention facility and associated infrastructure, and raise levee at the Centralia-Chehalis Airport

IN: Chehalis River, Tributaries, and Wetlands
NEAR: Pe Ell, and Chehalis
COUNTY: Pacific and Lewis County STATE: WA
SHEET: 19 of 22 DATE: 7/29/2020



Pe Ell Water Line Plan View

APPLICANT:
Chehalis River Basin Flood Control Zone District

DATUM: North American Datum 1983

ADJACENT PROPERTY OWNERS:
See Appendix C for full list of property owners

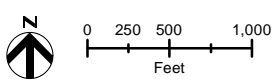
Chehalis River Basin Flood Damage Reduction Project








REFERENCE #: NWS-2014-1118

LAT/LONG:
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Airport Levee: 46.681091, -122.985087

PROPOSED PROJECT:
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IN: Chehalis River, Tributaries, and Wetlands
NEAR: Pe Ell, and Chehalis
COUNTY: Lewis County **STATE:** WA
SHEET: 20 of 22 **DATE:** 7/30/2020



-  Culverts
-  Levee
-  Airport
-  Temporarily Impacted Wetland (4.5 Acres)
-  Delineated Wetland (Anchor QEA 2019)
-  Estimated Wetland
-  Lewis County Parcel

Airport levee Plan View

APPLICANT:
Chehalis River Basin Flood Control Zone District

DATUM: North American Datum 1983

ADJACENT PROPERTY OWNERS:
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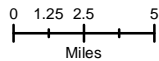
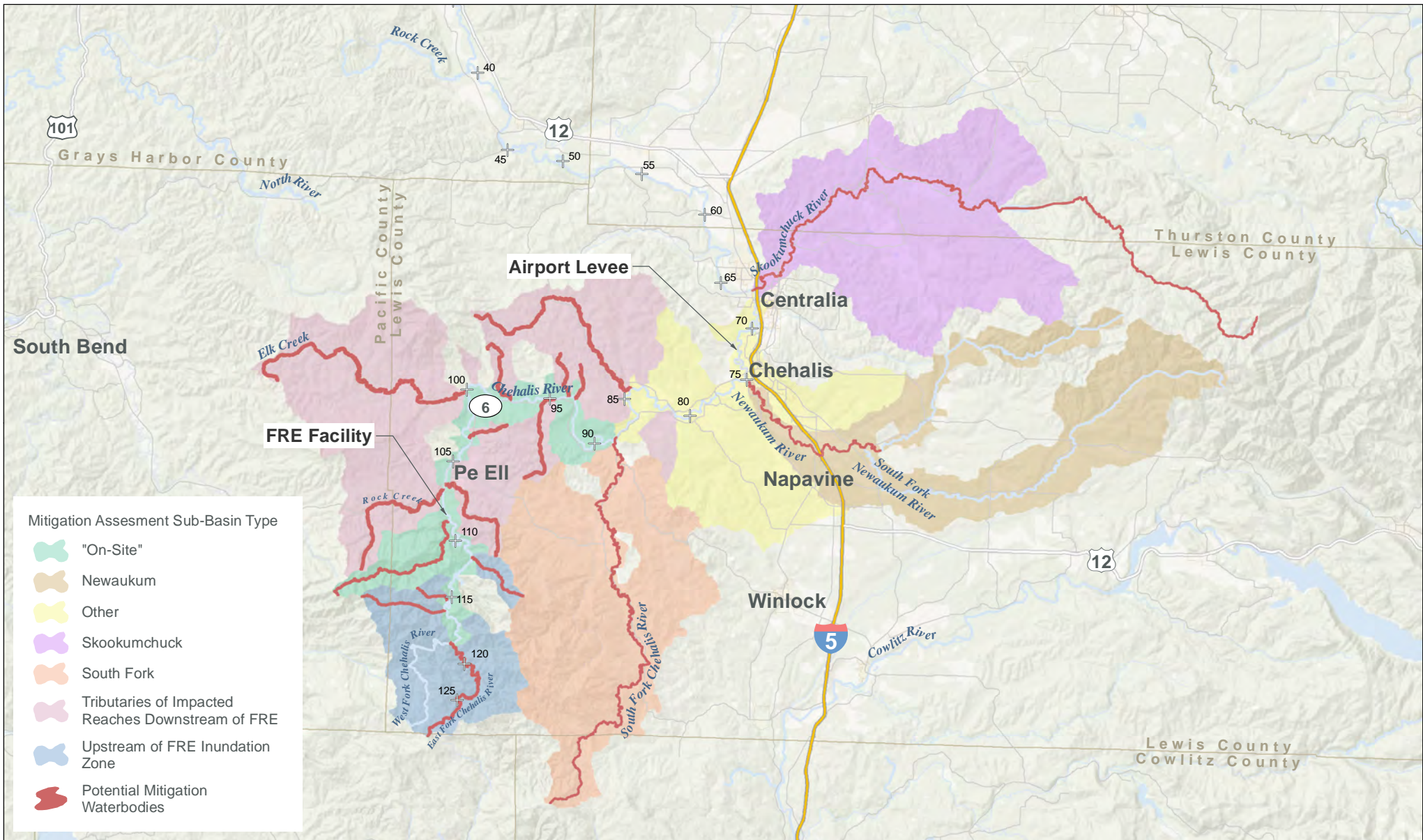
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SHEET: 21 of 22 **DATE:** 7/29/2020



Geographic Focus Areas for Aquatic and Terrestrial Mitigation

APPLICANT:
Chehalis River Basin Flood Control Zone District

DATUM: North American Datum 1983

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COUNTY: Pacific and Lewis County **STATE:** WA
SHEET: 22 of 22 **DATE:** 7/29/2020