



Memo

Date: Wednesday, May 25, 2022

Project: Chehalis River Basin Flood Damage Reduction Project

To: Chehalis Basin Flood Control Zone District

From: Emma Pazoff; Matt Prociv, PE

Subject: Construction Phase Upstream Fish Passage Alternatives Selection and 10% Design Addendum: Access Roads – Existing, Construction, and Operating Phases

Attachments: Figures 1-3

The Draft Environmental Impact Statements (EISs) prepared by the Washington State Department of Ecology (Ecology; pursuant to the State Environmental Policy Act) and the U.S. Army Corps of Engineers (USACE; pursuant to the National Environmental Policy Act) evaluate anticipated impacts associated with construction and operation of a proposed Flood Retention Only - Expandable (FRE) facility (i.e., the Chehalis River Basin Flood Damage Reduction Project [proposed project]) in the Chehalis Basin, Washington State. The Chehalis Basin Flood Control Zone District (District) is the project proponent. To inform development of the Final EISs, Ecology have requested additional information regarding the assumptions for the preliminary access road alignments for both the construction phase and permanent (Operating) fish passage facilities. This memo is an addendum to the Construction Phase Upstream Fish Passage technical memorandum¹ and provides further clarification on the conceptual layout of the proposed construction phase and permanent access roads for the proposed fish passage facilities as well as a description of the existing access roads at the fish passage facility site.

Existing Access Roads

Access to the FRE construction site and upstream fish passage facility area is currently provided via Muller Road and Forest Road (FR) 1000. The existing alignment of FR 1000 in proximity to the proposed FRE facility can be found in Figure 1.

Construction Phase Access Roads

The proposed alignment of the construction phase access roads at the FRE fish passage facility is shown in Figure 2. An approximately 340-foot-long, 18-foot-wide temporary access road will be constructed approximately 35 feet to the west of a section of FR 1000 on the north side of the construction phase fish passage facility (labeled “Construction Access Road” on Figure 2). The temporary access road will be parallel to an existing section of FR 1000. The temporary access road allows access to the construction phase juvenile and resident transfer station as well as the transfer area of the sorting, holding, and transfer building. Both the temporary and existing roads provide access to the construction phase adult holding gallery.

¹ 2022. Construction Phase Upstream Fish Passage Alternatives Selection and 10% Design. Prepared for the State of Washington.



An approximately 650-foot-long, 21-foot-wide road will be constructed to the north of the construction phase fish passage facility to provide continued direct access to FR 1000 and forest roads to the southwest. This new portion of FR 1000 will allow vehicles to bypass the FRE construction area and construction phase fish passage facility. Additionally, a truck turnaround area and vehicle access to the construction phase fish passage facility would be constructed to the southeast of the new portion of FR 1000. The temporary access roads provide vehicle access to the construction site and construction phase fish passage facility and facilitate the transport of fish to predetermined upstream locations. Access roads will be designed to adhere to construction BMPs. BMPs are discussed in more detail in the Access Roads memo².

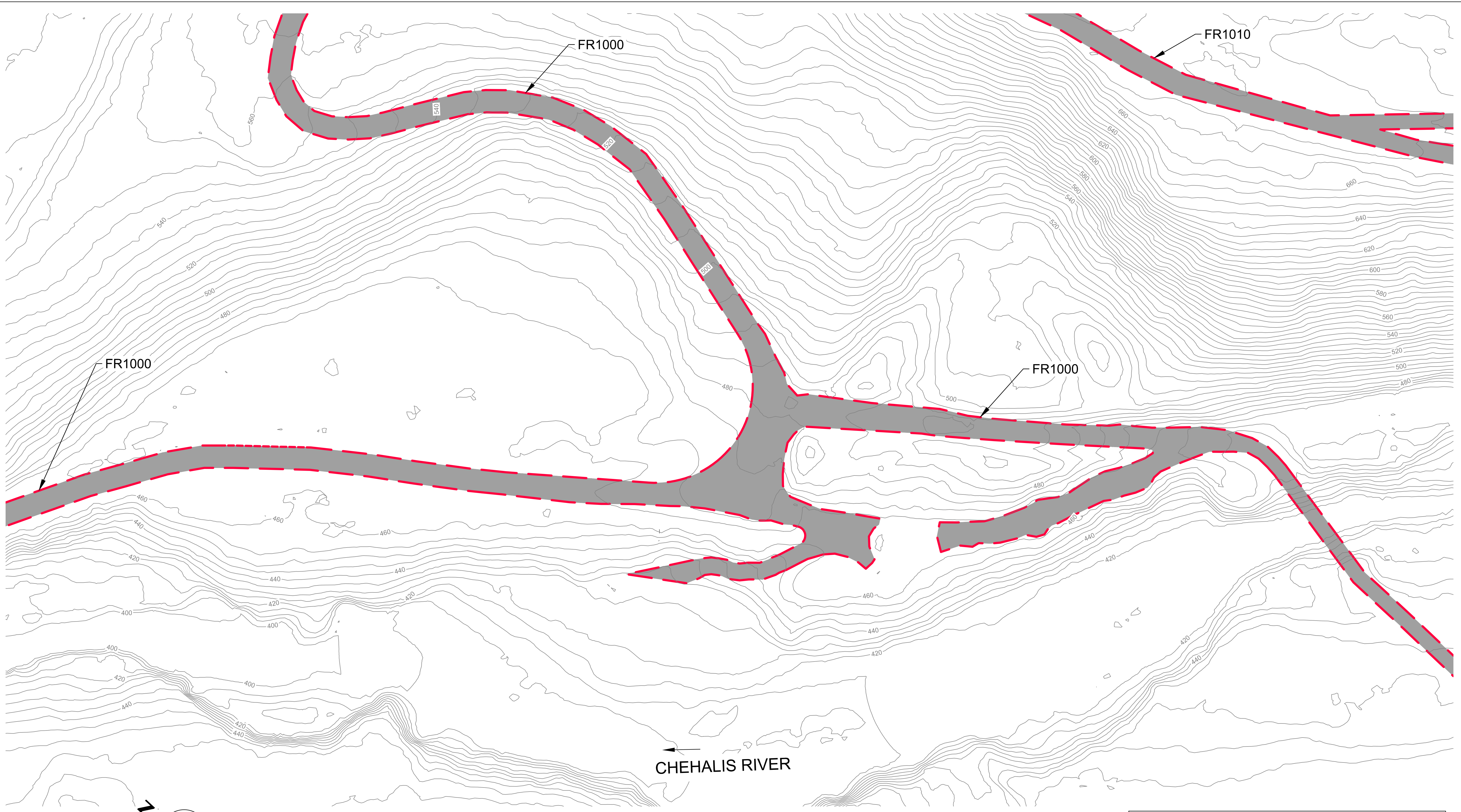
Operating Phase Access Roads

The proposed alignment for operating phase access roads at the Collect, Handle, Transfer, and Release (CHTR) facility is shown in Figure 3. The construction access road across the river will be removed with the cofferdam, the river restored, and the upland area revegetated. The new portion of FR 1000 and the construction access road north of the CHTR facility will be made permanent. Additional access roads will be constructed around the CHTR facility to facilitate permanent operation. The portions of the existing FR 1000 that are not needed for the CHTR and FRE facility will be removed and vegetated. The operating phase access roads allow for vehicle access to the FRE facility for operation and maintenance purposes and allow for transport of fish to predetermined upstream locations. Access roads will be designed and maintained to adhere to applicable BMPs throughout the operating phase. BMPs are discussed in more detail in the Access Roads memo².

² Access Road Update and Best Management Practices Technical Memorandum (Draft). Prepared for Chehalis Basin Flood Control Zone District. December 17, 2021.



Attachment – Figures 1-3

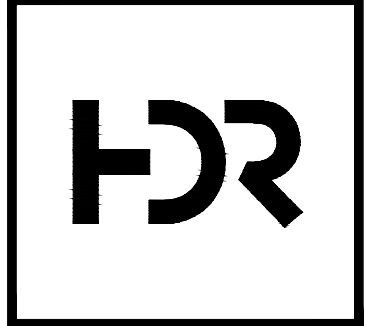


CHEHALIS RIVER

EXISTING ACCESS ROADS
SCALE: 1"=50'

LEGEND:

 EXISTING ACCESS ROAD (FR1000)



**CHEHALIS CONSTRUCTION PHASE
UPSTREAM FISH PASSAGE**

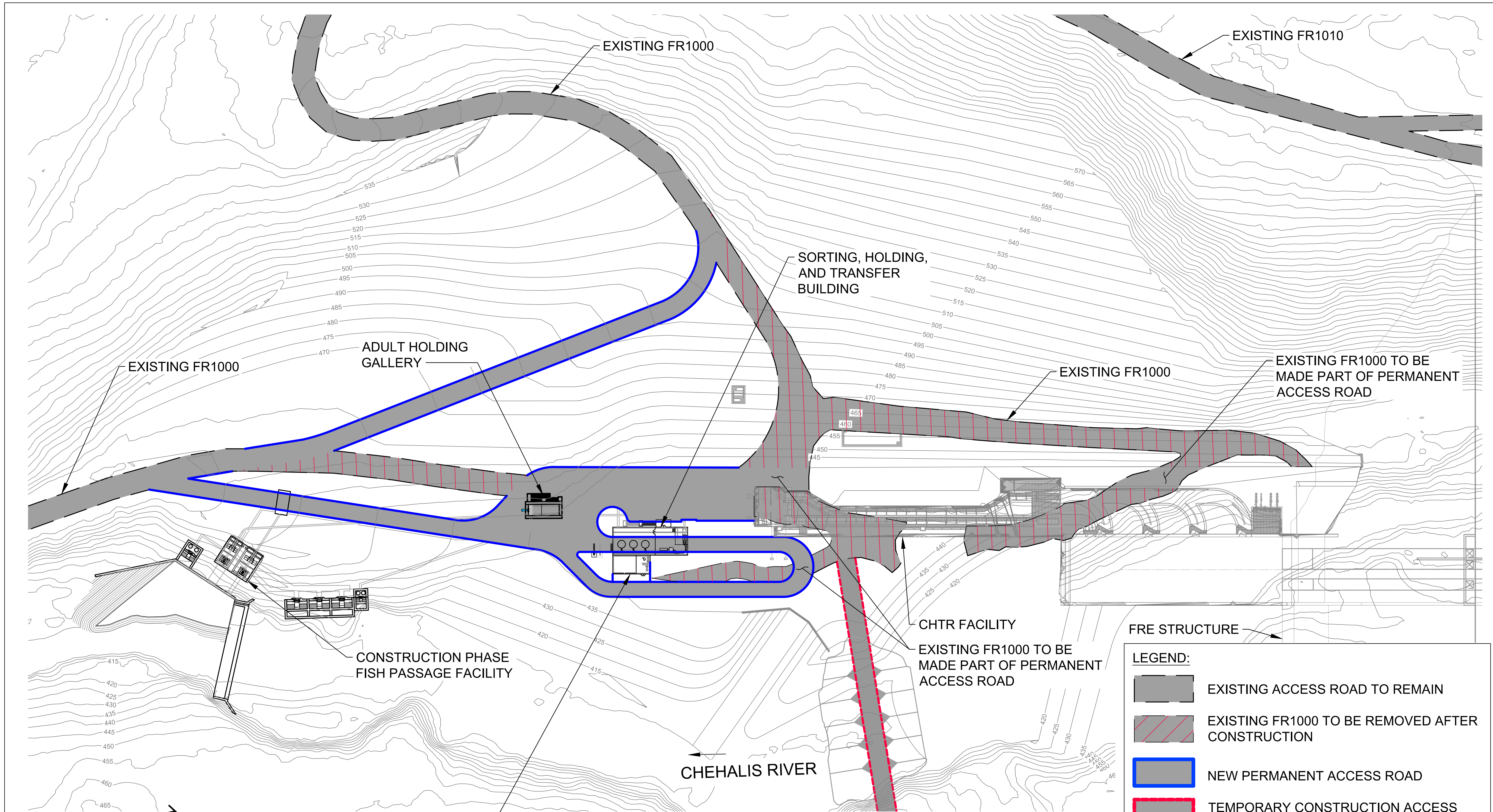
EXISTING ACCESS ROADS

CHEHALIS BASIN

DATE
05/18/2022

FIGURE
1

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EXISTING FR1000

EXISTING FR1000

EXISTING FR1010

ADULT HOLDING GALLERY

SORTING, HOLDING, AND TRANSFER BUILDING

EXISTING FR1000

EXISTING FR1000 TO BE MADE PART OF PERMANENT ACCESS ROAD

CONSTRUCTION PHASE FISH PASSAGE FACILITY

CHTR FACILITY


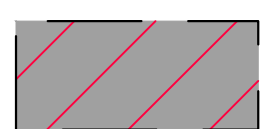


EXISTING FR1000 TO BE MADE PART OF PERMANENT ACCESS ROAD

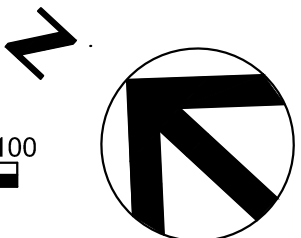
FRE STRUCTURE

CHEHALIS RIVER

MECHANICAL/ELECTRICAL AND STORAGE BUILDING

LEGEND:

-  EXISTING ACCESS ROAD TO REMAIN
-  EXISTING FR1000 TO BE REMOVED AFTER CONSTRUCTION
-  NEW PERMANENT ACCESS ROAD
-  TEMPORARY CONSTRUCTION ACCESS ROAD



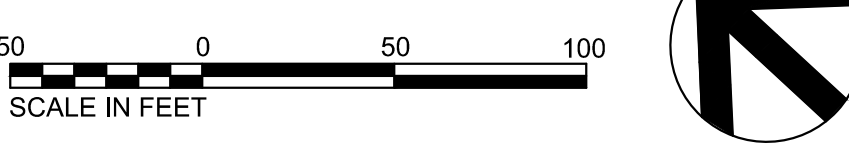
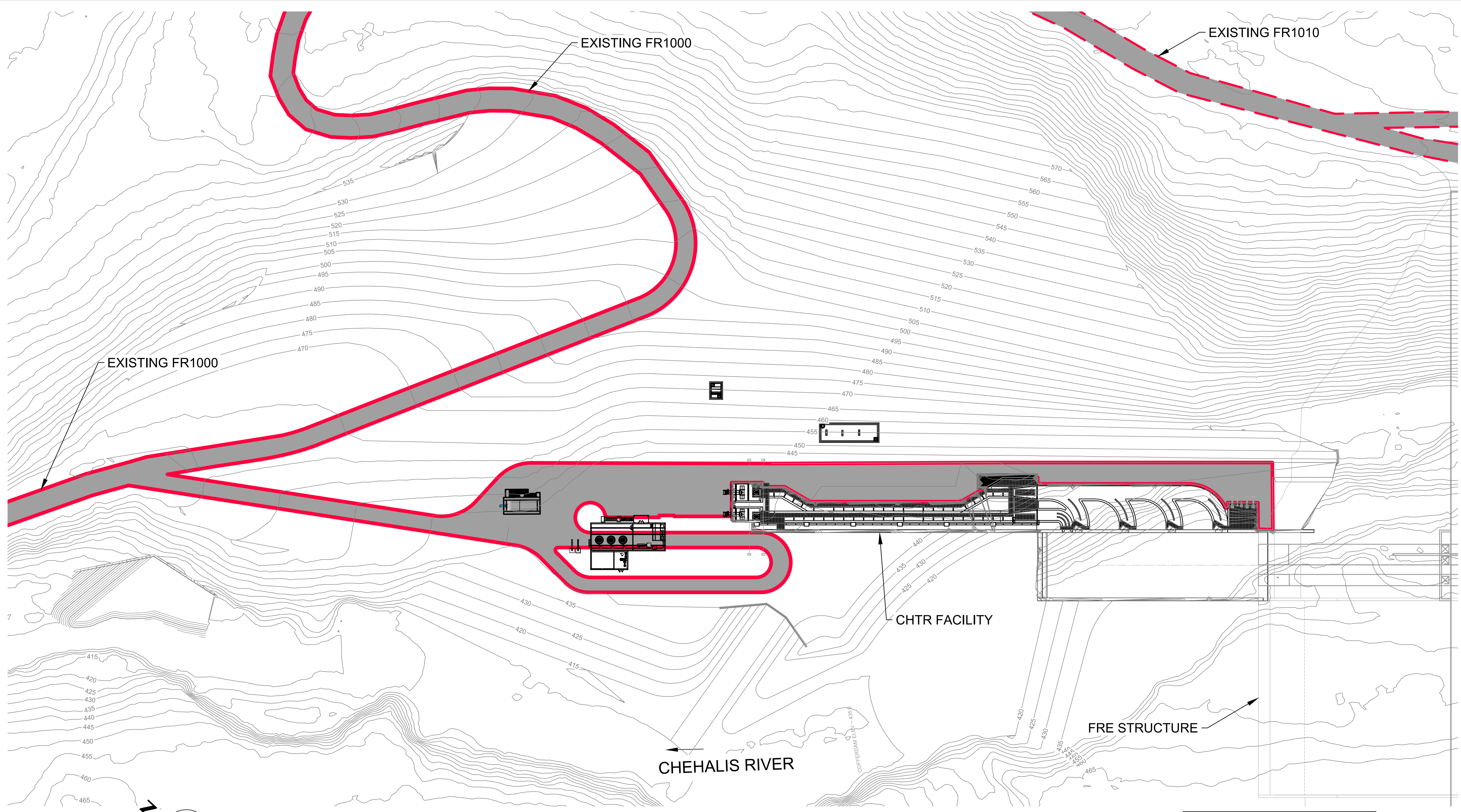
CONSTRUCTION ACCESS ROADS
SCALE: 1"=50'

NOTE:
STRUCTURES SHOWN IN GRAY REPRESENT FACILITIES CONSTRUCTED DURING THE CONSTRUCTION PHASE.



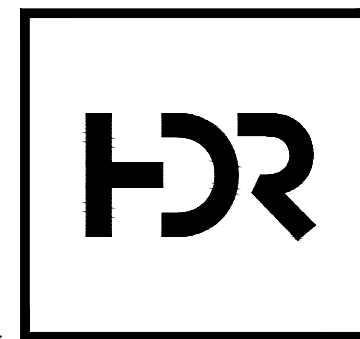
CHEHALIS CONSTRUCTION PHASE
UPSTREAM FISH PASSAGE
CONSTRUCTION ACCESS ROADS
CHEHALIS BASIN

DATE
05/18/2022
FIGURE
2



PROJECT SITE PLAN
SCALE: 1"=50'

LEGEND:
 ACCESS ROAD



**CHEHALIS CONSTRUCTION PHASE
UPSTREAM FISH PASSAGE**
OPERATING ACCESS ROADS
 CHEHALIS BASIN

| | |
|--------|------------|
| DATE | 05/18/2022 |
| FIGURE | 3 |

HDR Chehalis/10/15/2022/14:57 PM BY: JCANPBE