US Army Corps
of Engineers
Seattle District

Public Notice of Application for Permit

Regulatory Branch
Post Office Box 3755
Seattle, Washington 98124-3755
Telephone (206) 764-3495
ATTN: Olivia Romano, Project Manager

Public Notice Date: November 10, 2004
Expiration Date: December 10, 2004
Reference: 200401225
Name: Grant County PUD No.2

Interested parties are hereby notified that an application has been received for a Department of the Army permit in accordance with Section 10 of the Rivers and Harbors Act of March 3, 1899, and Section 404 of the Clean Water Act for certain work described below and shown on the enclosed drawings.

APPLICANT - Grant County Public Utility District No. 2
Mr. Cliff Sears
Post Office Box 878
Ephrata, Washington 98823
Telephone: (509) 754-6612

LOCATION – In Columbia River, river mile 415, at Wanapum Dam, near Beverly, Grant and Kittitas Counties, Washington.

WORK – Construction of a fish passage facility through the existing structure, (B slot of future unit #1), of Wanapum Dam. The proposed spillway (discharge) structure will extend about 241 feet (ft) downstream of the dam within the tailrace area.

The work involves:

a. Dredging to remove up to 4,000 cubic yards (cy) of material, consisting mostly of boulders and cobble, from below the ordinary high water line (OHW) for construction of fish passage foundation, see Sheet 4 of 9.

b. Dispose of dredged material below the OHW, in an area about 210 ft long and 180 ft wide, adjacent to the proposed spillway structure and future units #12 and #13, see Sheet 9 of 9.

c. Dewatering bulkheads will be installed upstream and downstream of future unit #11 to allow construction inside the unit, see Sheet 7 of 9.

d. The internal walls and slabs within the future unit #11 will be removed to accommodate the bypass weir ogee and spillway structure.

e. Precast concrete modules will be placed to act as cofferdams and forms for pour-in-place concrete for construction of the foundation and walls of the spillway (discharge) structure. Once the precast modules are in place and have been sealed, the area created by these modules will be dewatered allowing the remainder of the work to be done in the dry, see Sheet 7 of 9.

f. Concrete will be poured between the precast foundation and walls modules to complete construction of the spillway (discharge) structure. A total of 22,000 cy of concrete will be used to construct the fish passage facility.

e. Dewatering bulkheads, construction forms and material, used as seals, will be removed upon completion of the spillway (discharge) structure.

g. A barge-mounted crane will be used to dredge for the foundation and in the construction of the project.

PURPOSE – To improve downstream fish passage and water quality.

ADDITIONAL INFORMATION – The Priest Rapids Hydroelectric Project includes two separate dam and reservoir projects, the Priest Rapids Dam and the Wanapum Dam, which are located on the Columbia River at river miles 397.1 and 415.8, respectively. As part of the interim protection plan for operation of the Priest Rapids Project, Grant County, has worked with the Mid-Columbia Coordinating Committee, consisting of the National Marine Fisheries Service (NMFS), the U.S. Fish and Wildlife Service (USFWS), the Washington State Department of Fish and Wildlife (WDFW), other state agencies and tribes, to resolve concerns. NMFS identified the proposed project as one of the several Reasonable and Prudent Alternatives (RPA's) in its May 3, 2004, "Biological Opinion for the Priest Rapids Project." Specifically, the RPA, "Top Spill Through Future Units," requires that the Grant Public Utility District (PUD) design and construct a fish passage facility with 20,000 cubic feet per second discharge in one of the vacant future unit bays. This will include a transition chute that will allow bypass flow to be introduced into the tailrace, in the optimal configuration, to provide improved juvenile fish egress from the tailrace and to minimize the total dissolved gas (TDG) levels. In accordance with the RPA, the final concept design was approved by NMFS, USFWS, and WDFW. The Federal Energy Regulatory Commission (FERC) is in the process of amending the Priest Rapids Hydroelectric Project License No. 2114 to include the fish passage facility and other actions required by reasonable and prudent measures of the NMFS biological opinion.

ENDANGERED SPECIES - The Endangered Species Act (ESA) of 1973 requires assessment of potential impacts to listed and proposed species. The Columbia River bull trout (*Salvelinus confluentus*), listed threatened; the Upper Columbia River steelhead (*Onchorhynchus mykiss*), listed endangered; and the Upper Columbia River Spring chinook (*Onchorhynchus tshawytscha*), listed endangered, have been listed in the state of Washington (State), and occur in the proposed project area. For the Upper Columbia River steelhead, critical habitat has been designated. The FERC as the lead agency for ESA consultation will consult with the NMFS and the USFWS as required under Section 7 of the ESA.

ESSENTIAL FISH HABITAT - The Magnuson-Stevens Fishery Conservation and Management Act (MSA), as amended by the Sustainable Fisheries Act of 1996, requires all Federal agencies to consult with the NMFS on all actions, or proposed actions, permitted, funded, or undertaken by the agency, that may adversely affect Essential Fish Habitat (EFH). EFH for Pacific salmon species occurs in the project area. The proposed action would impact approximately 1.24 acres of EFH for these species. The FERC as the lead agency for a determination regarding EFH will consult with the NMFS if necessary.

CULTURAL RESOURCES - The FERC, as the lead agency for determining compliance with Section 106 of the National Historic Preservation Act, will consult with the State Historic Preservation Office as appropriate.

PUBLIC HEARING - Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for public hearings shall state, with particularity, the reasons for holding a public hearing.

EVALUATION - The decision whether to issue a permit will be based on an evaluation of the probable impact, including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefits, which reasonably may be expected to accrue from the proposal, must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered, including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership, and, in general, the needs and welfare of the people.

The U.S. Army Corps of Engineers (Corps) is soliciting comments from the public; Federal, Native American Nations or tribal governments, State, and local agencies and officials; and other interested parties in order to consider and evaluate the impacts of this activity. Any comments received will be considered by the Corps to determine whether to issue, modify, condition or deny a permit for the work. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the activity.

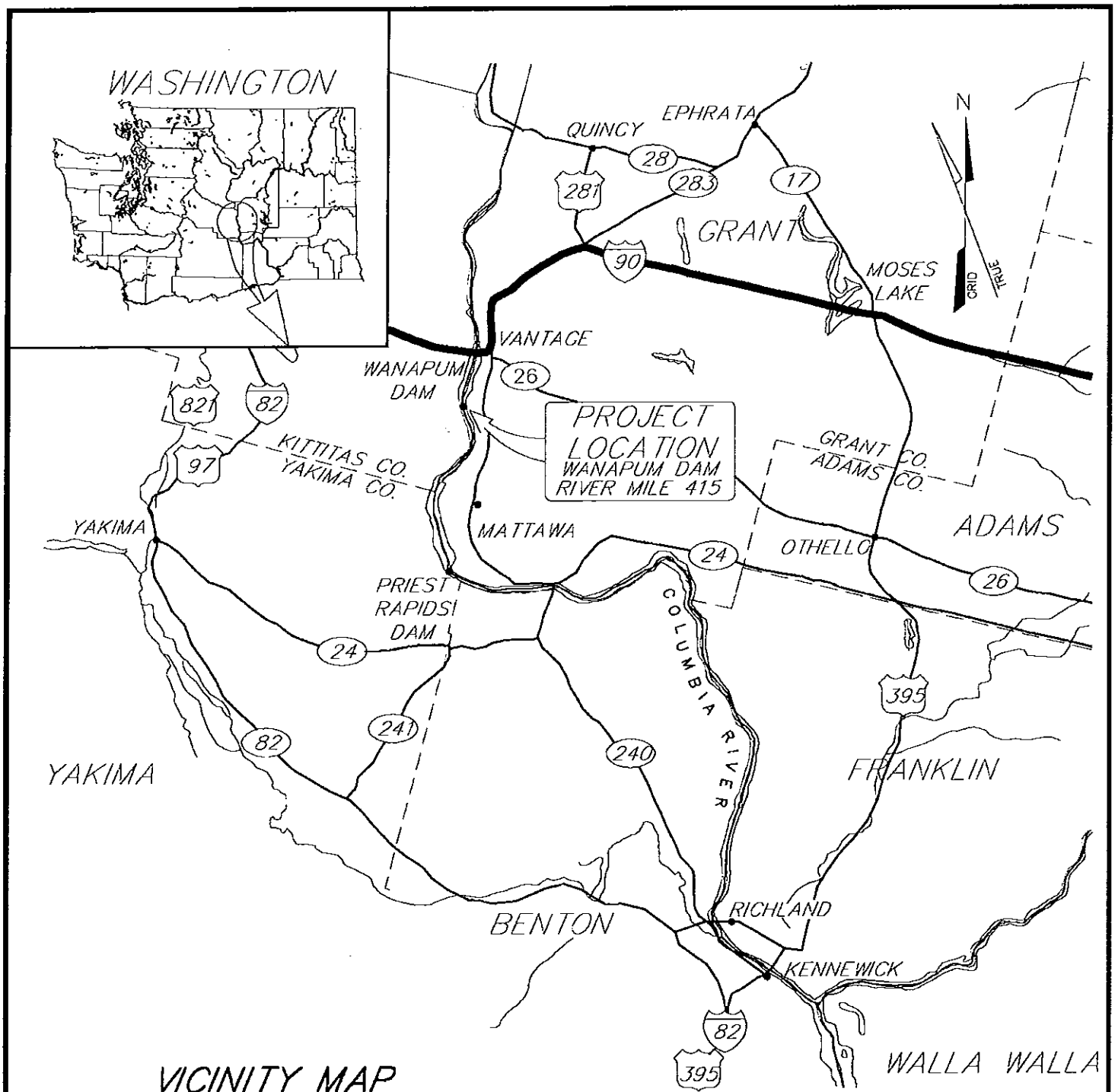
The evaluation of the impact of the activity on the public interest will include application of the guidelines promulgated by the Administrator, Environmental Protection Agency, under authority of Section 404(b) of the Clean Water Act. This evaluation will include an alternatives analysis.

ADDITIONAL EVALUATION - The State is reviewing this work for compliance with the applicable State and Federal water quality standards pursuant to Section 401 of the Clean Water Act.

COMMENT AND REVIEW PERIOD – Conventional mail or e-mail comments on this public notice will be accepted and made part of the record and will be considered in determining whether it would be in the public interest to authorize this proposal. In order to be accepted, email comments must originate from the author's email account and must include on the subject line of the email message the permit applicant's name and reference number as shown below. All email comments should be sent to Olivia.H.Romano@usace.army.mil. Conventional mail comments should be sent to U.S. Army Corps of Engineers, Regulatory Branch, Post Office Box 3755, Seattle, Washington 98124-3755. Both conventional mail or email comments must include the permit applicant's name and reference number, as shown below, and the commentor's name, address, and phone number. All comments whether conventional mail or email must reach this office, no later than the expiration date of this public notice to ensure consideration. Please include the following name and reference number:

Grant County Public Utility District No.2, 200401225

Encl
Drawings (9)



VICINITY MAP

Corps Reference No.: 200401225

NOTES

LOCATION:	PORTIONS OF SECTIONS 17 AND 20; TOWNSHIP 16 NORTH; RANGE 23 EAST, W.M. SITE LOCATED IN KITTITAS AND GRANT COUNTIES. SITE IS LOCATED ON COLUMBIA RIVER AT RIVER MILE 415, APPROXIMATELY 5 MILES SOUTH OF THE CITY OF VANTAGE LATITUDE = 46° 52' 23" NORTH LONGITUDE = 119° 58' 13" WEST
LANDFORM:	SURROUNDING LANDS INCLUDE SHRUB STEPPE, AND BASALT CLIFFS.
LAND USE:	SURROUNDING LAND IS GENERALLY VACANT
PROPOSED IMPROVEMENTS:	CONSTRUCTION OF A FISH BYPASS SPILLWAY WEIR AND DISCHARGE CHUTE AT THE UNIT 11 SKELETON BAY (FUTURE UNIT 11 BAY) AT WANAPUM DAM

GRANT COUNTY PUD NO. 2 WANAPUM FUTURE UNIT FISH BYPASS	
IN:	COLUMBIA RIVER RIVER MILE 415
AT:	WANAPUM DAM VANTAGE, WASHINGTON GRANT AND KITTITAS COUNTIES
BY:	GRANT COUNTY PUD NO. 2
SHEET 1 OF 9	DATE: 9/2004

RGW

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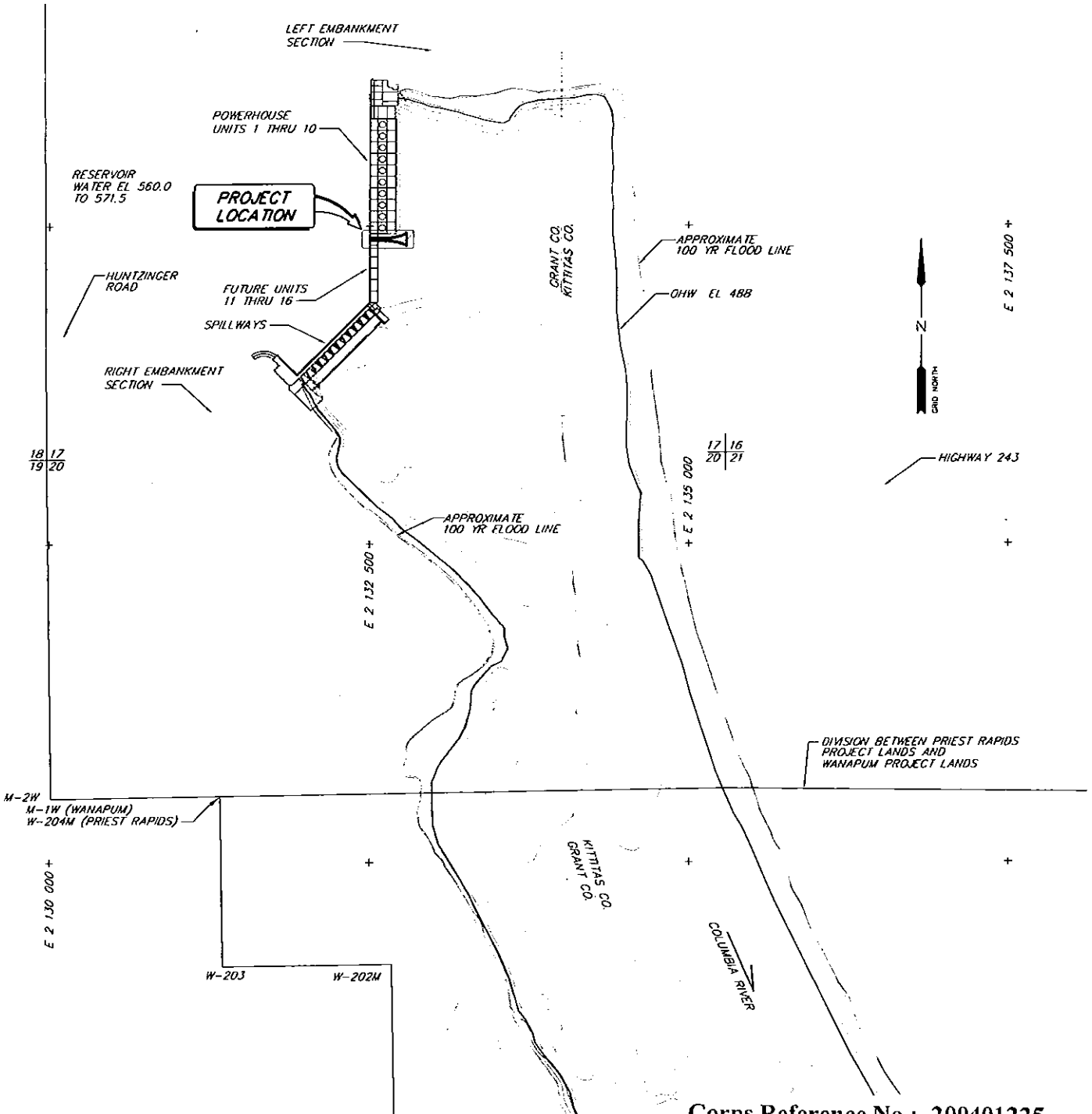

Corps Reference No.: 200401225

PLAN VIEW

500' 250' 0 500' 1000'

1"=1000'

GRANT COUNTY PUD NO. 2 WANAPUM FUTURE UNIT FISH BYPASS	
IN:	COLUMBIA RIVER RIVER MILE 415
AT:	WANAPUM DAM VANTAGE, WASHINGTON GRANT AND KITTITAS COUNTIES
BY:	GRANT COUNTY PUD NO. 2
SHEET 2 OF 6	DATE: 8/2004

RGW

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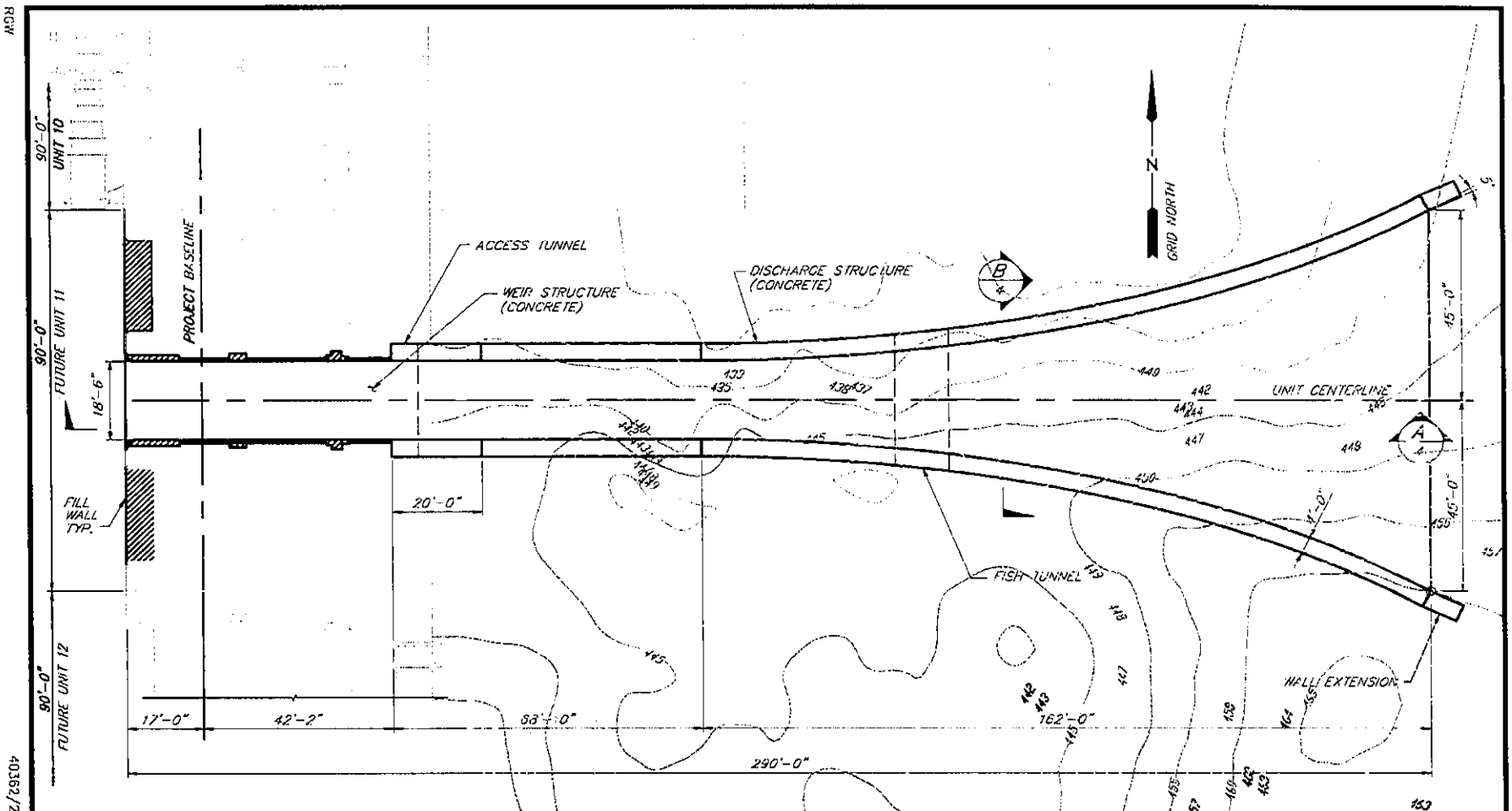

PLAN

SCALE: 1/32"=1'-0"

Corps Reference No.: 200401225

GRANT COUNTY PUD NO. 2 WANAPUM FUTURE UNIT FISH BYPASS	
IN:	COLUMBIA RIVER RIVER MILE 415
AT:	WANAPUM DAM VANTAGE, WASHINGTON GRANT AND KITTITAS COUNTIES
BY:	GRANT COUNTY PUD NO. 2
SHEET 3 OF 9	DATE: 9/2004

RGW

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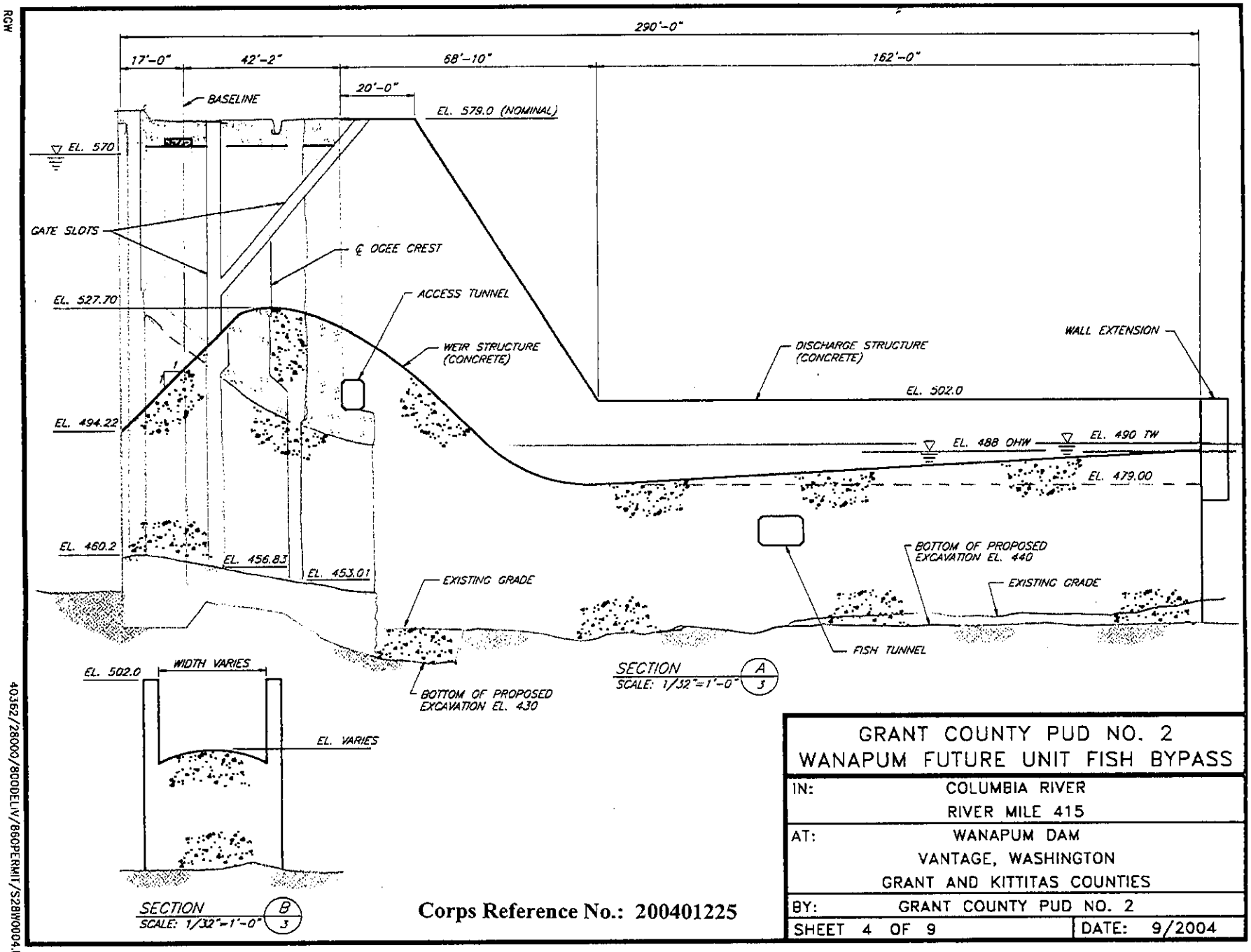

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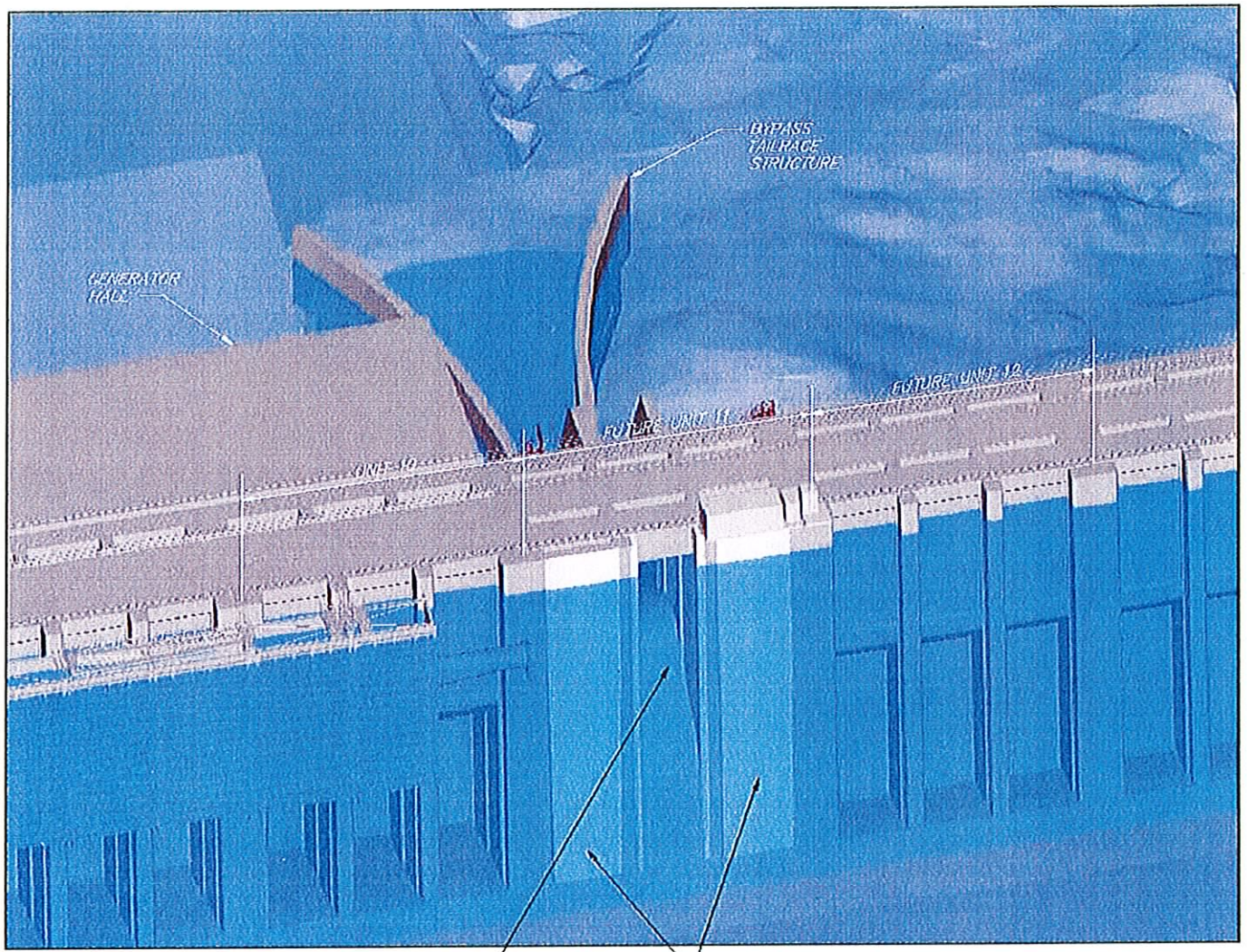

WANAPUM FUTURE UNIT FISH BYPASS

VIEW FROM FOREBAY

Corps Reference No.: 200401225

GRANT COUNTY PUD NO. 2 WANAPUM FUTURE UNIT FISH BYPASS	
IN:	COLUMBIA RIVER RIVER MILE 415
AT:	WANAPUM DAM VANTAGE, WASHINGTON GRANT AND KITTITAS COUNTIES
BY:	GRANT COUNTY PUD NO. 2
SHEET 5 OF 9	DATE: 9/2004

RGW

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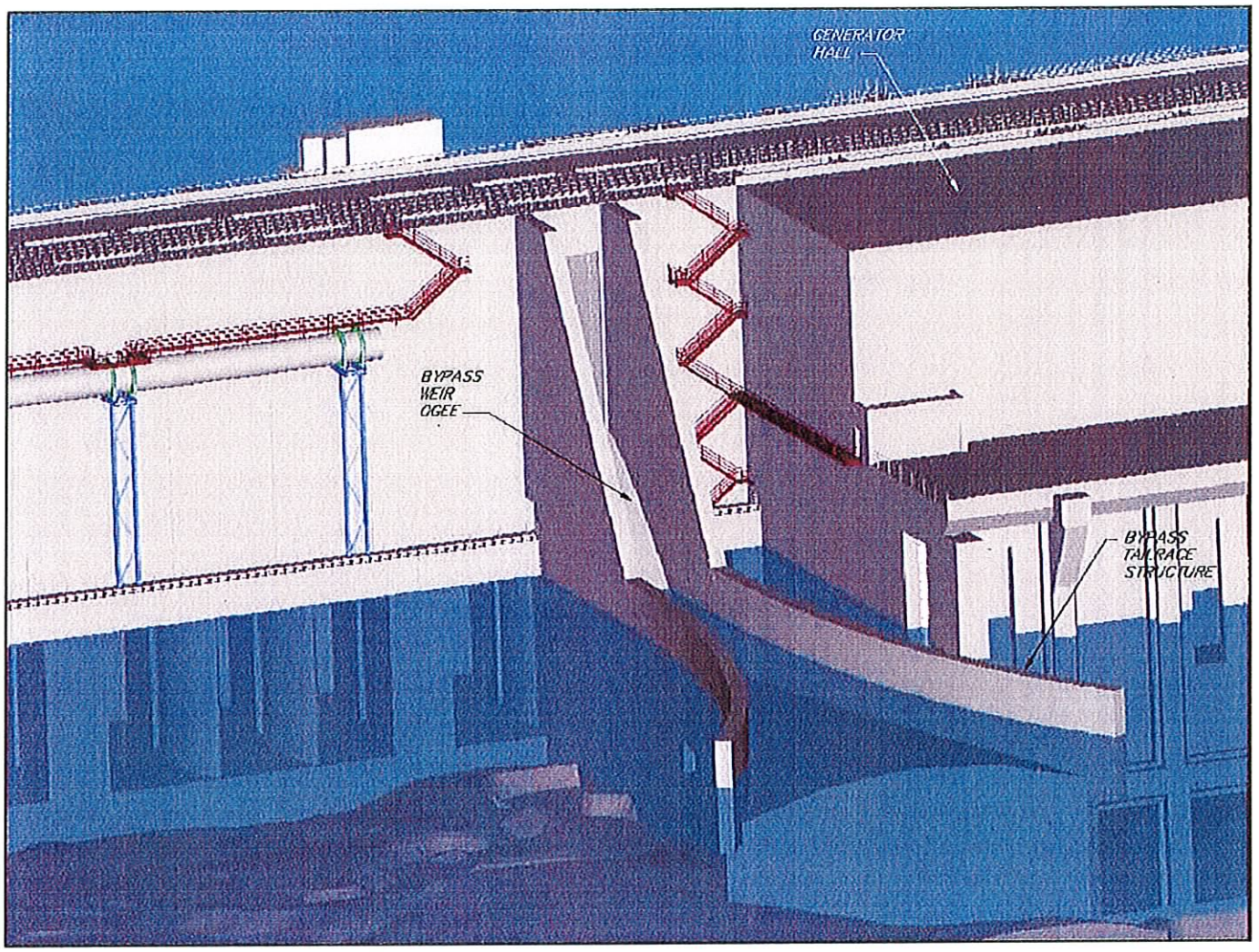

WANAPUM FUTURE UNIT FISH BYPASS
VIEW FROM TAILRACE

Corps Reference No.: 200401225

GRANT COUNTY PUD NO. 2 WANAPUM FUTURE UNIT FISH BYPASS	
IN:	COLUMBIA RIVER RIVER MILE 415
AT:	WANAPUM DAM VANTAGE, WASHINGTON GRANT AND KITTITAS COUNTIES
BY:	GRANT COUNTY PUD NO. 2
SHEET 6 OF 9	DATE: 9/2004

RGW

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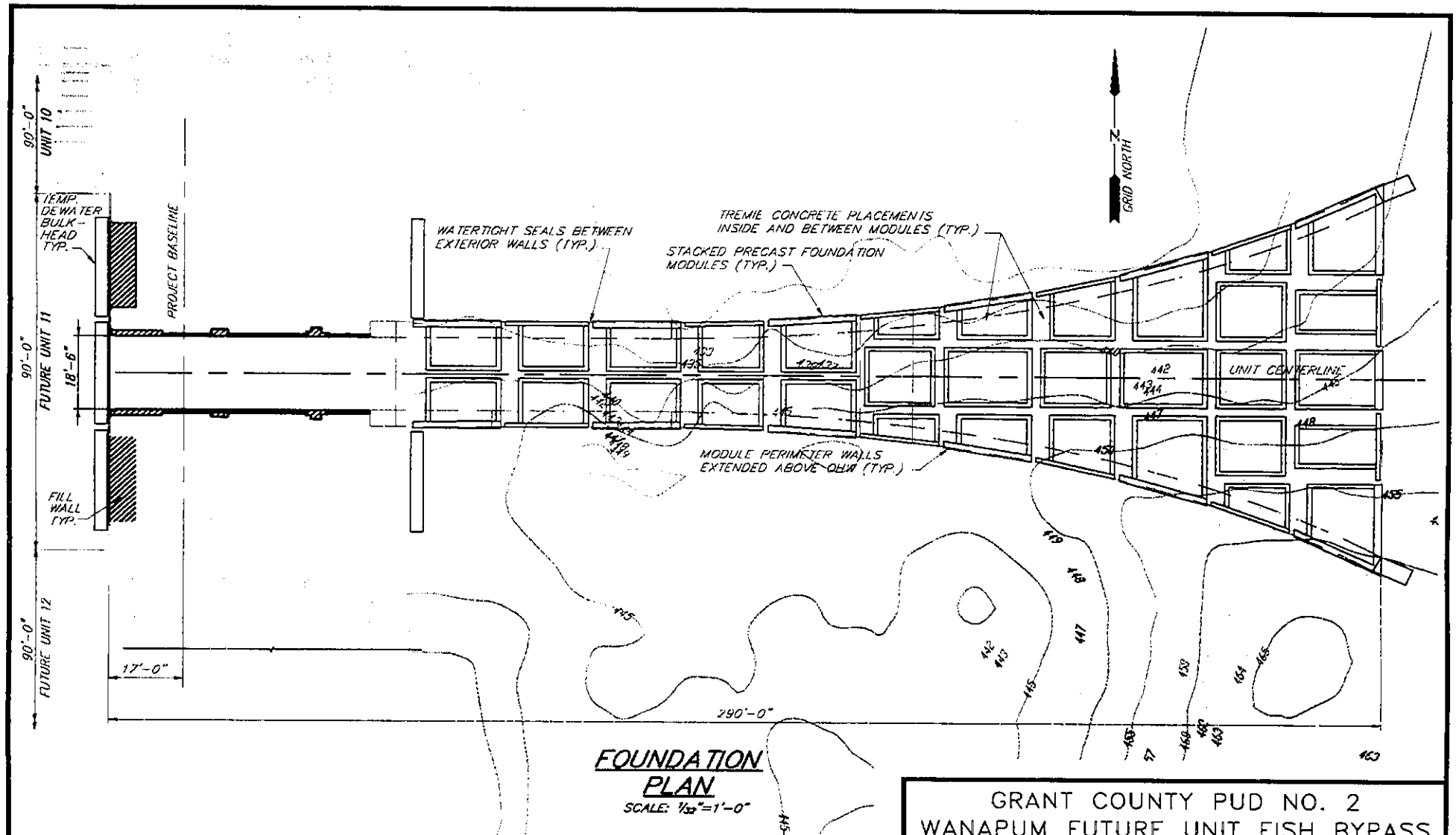

FOUNDATION PLAN

SCALE: 1/32"=1'-0"

GRANT COUNTY PUD NO. 2 WANAPUM FUTURE UNIT FISH BYPASS	
IN:	COLUMBIA RIVER RIVER MILE 415
AT:	WANAPUM DAM VANTAGE, WASHINGTON GRANT AND KITTITAS COUNTIES
BY:	GRANT COUNTY PUD NO. 2
SHEET 7 OF 9	DATE: 9/2004

Corps Reference No.: 200401225

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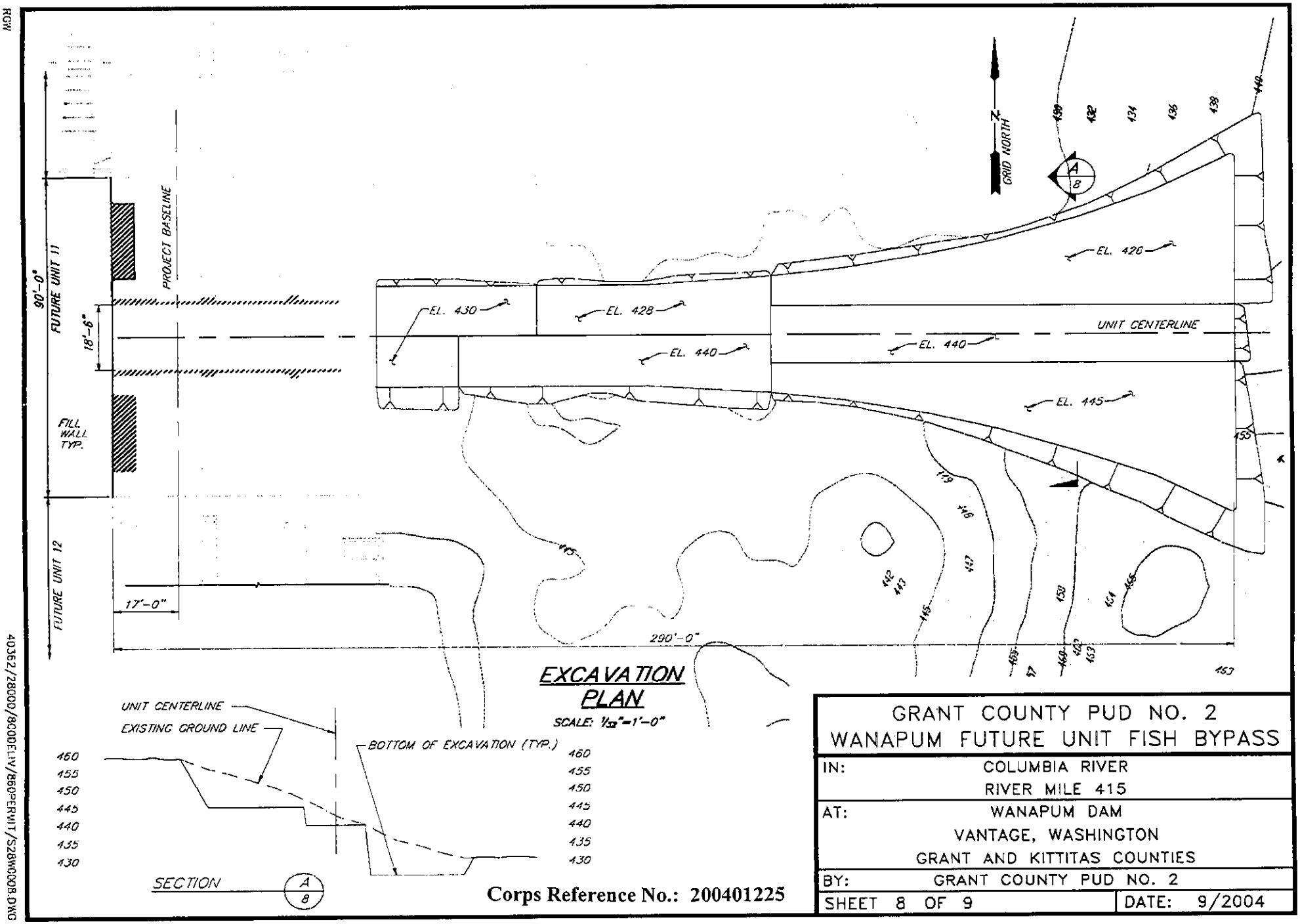
40362/28000/800DELIV/860PERMIT/S28W0007.DWG


90'-0"
FUTURE UNIT 11
18'-6"
FILL WALL TYP.
FUTURE UNIT 12
PROJECT BASELINE
17'-0"
290'-0"
EL. 430
EL. 428
EL. 440
EL. 420
EL. 445
UNIT CENTERLINE
GRID NORTH
N
EXCAVATION PLAN
SCALE: 1/20"=1'-0"
UNIT CENTERLINE
EXISTING GROUND LINE
BOTTOM OF EXCAVATION (TYP.)
460
455
450
445
440
435
430
SECTION A/8
Corps Reference No.: 200401225
GRANT COUNTY PUD NO. 2
WANAPUM FUTURE UNIT FISH BYPASS
IN: COLUMBIA RIVER
RIVER MILE 415
AT: WANAPUM DAM
VANTAGE, WASHINGTON
GRANT AND KITTITAS COUNTIES
BY: GRANT COUNTY PUD NO. 2
SHEET 8 OF 9
DATE: 9/2004
RGW
40362/28000/8000ELIV/860PERMIT/S2BW000B.DWG

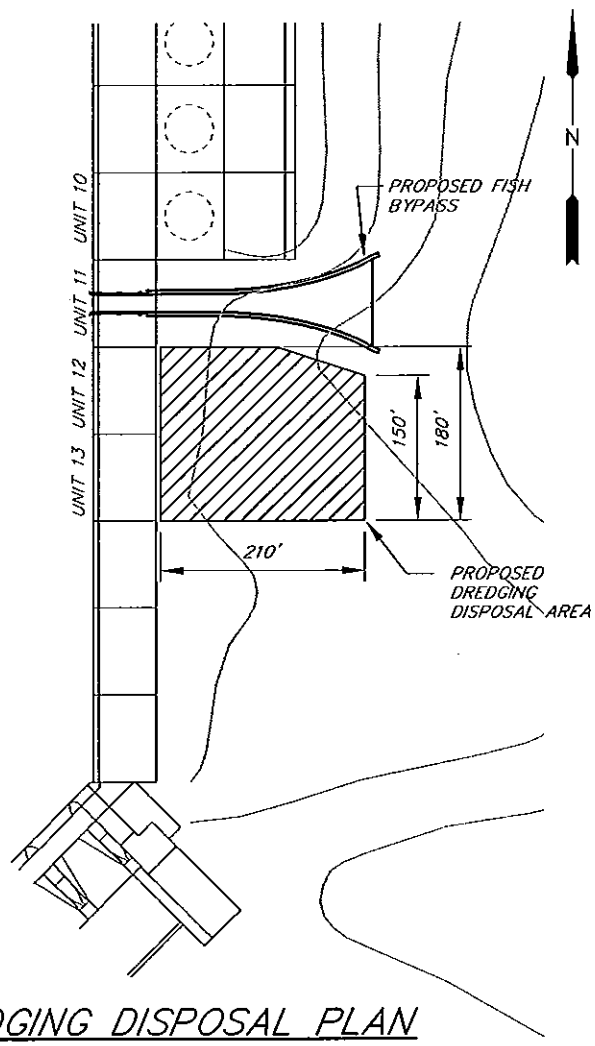
PROPOSED CONSTRUCTION SEQUENCES

CONSTRUCTION WITHIN FUTURE UNIT 11 STRUCTURE

1. INSTALL UPSTREAM AND DOWNSTREAM DEWATERING BULKHEADS TO ALLOW CONSTRUCTION INSIDE FUTURE UNIT 11 (SEE SHEET 7 FOR LOCATION OF DEWATERING BULKHEADS).
2. PERFORM WORK INSIDE AND AT FUTURE UNIT 11 STRUCTURE.
3. REMOVE DEWATERING BULKHEADS.

CONSTRUCTION OF DISCHARGE STRUCTURE IN TAILRACE

1. EXCAVATE FOR FOUNDATION (SEE SHEET 8).
2. INSTALL PRECAST CONCRETE FOUNDATION MODULES (SEE SHEET 7).
3. ESTABLISH ISOLATION SEALS AT PRECAST MODULES.
4. PLACE TREMIE CONCRETE AT FOUNDATION MODULES.
5. ESTABLISH DEWATERING PERIMETER AT FOUNDATION TO ALLOW DEWATERING OF CONSTRUCTION AREA ABOVE FOUNDATION.
6. DEWATER AREA ABOVE FOUNDATION.
7. COMPLETE CONSTRUCTION OF THE DISCHARGE CHUTE.
8. REMOVE CONSTRUCTION FORMS AND MATERIALS.



DREDGING DISPOSAL PLAN

Corps Reference No.: 200401225

GRANT COUNTY PUD NO. 2 WANAPUM FUTURE UNIT FISH BYPASS	
IN:	COLUMBIA RIVER RIVER MILE 415
AT:	WANAPUM DAM VANTAGE, WASHINGTON GRANT AND KITTITAS COUNTIES
BY:	GRANT COUNTY PUD NO. 2
SHEET 9 OF 9	DATE: 9/2004

RGW

40362/28000/800DELIV/860PERMIT/S28W0009.DWG

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY
P.O. Box 47600 • Olympia, Washington 98504-7600
(360) 407-6000 • TDD Only (Hearing Impaired) (360) 407-6006

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

Notice of Application for
Water Quality Certification

Date: 11/10/04

Notice is herby given that a request has been filed with the Department of Ecology, pursuant to the requirements of Section 401 of the federal Clean Water Act of 1977 (PL 95-217), to certify that the project described in the U.S. Army Corps of Engineers Public Notice No. 200401255 will comply with the Sections 301, 302, 303, 306, and 307 of the Act, and with applicable provisions of State and Federal water pollution control laws.

Any person desiring to present views on the project pertaining to compliance with water pollution control laws may do so by providing written comments within 30 days of the above publication date to:

Federal Permit Coordinator
Department of Ecology
SEA Program
Post Office Box 47600
Olympia, Washington 98504-7600