



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: January 12, 2004  
Expiration Date: February 11, 2004  
Reference: 200301347  
Name: Cowlitz County Public Utility  
District No.1

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

APPLICANT - Cowlitz County Public Utility District No. 1  
Post Office Box 3007  
Longview, Washington 98632  
ATTN: Dennis P. Robinson, General Manager  
Telephone: (360) 423-3310

LOCATION - In Yale Reservoir and the North Fork of the Lewis River, near Cougar, in Cowlitz and Clark Counties, Washington.

WORK - Removal of debris and repair of Swift No. 2 Hydroelectric facility. The work consists of the removal of up to 160,000 cubic yards of material from a 2,000 foot section of the tailrace channel; the construction of a temporary diversion dike and haul road; the installation of concrete liner and foundation work in a 5,900 foot section of the power canal; and the relocation of a section of the power canal embankment near the forebay. The proposed work will be done below the 490-foot elevation of Yale Reservoir and the 604-foot elevation of the power canal.

Up to 1,500,000 cubic yards of fill material will be excavated and/or placed in the reconstruction of the power canal foundation and embankment work. An additional 48,000 cubic yards of concrete will be placed for the canal lining. Up to 15,000 cubic yards of material will be placed for the construction of the 250-foot long temporary diversion dike located between the Lewis River and tailrace in the upstream end of Yale Reservoir. A temporary haul road will be constructed down the middle of the tailrace channel using excavated material from the tailrace. Tailrace excavation work will begin at the downstream end of the channel and proceed upstream to the powerhouse. The temporary diversion dike will be removed at the completion of the tailrace excavation. The river bottom under the temporary diversion dike will be over-excavated by one foot and then the river bottom will be covered with one foot of cobble to minimize future erosion. Yale Reservoir will be drawn down to 460-foot elevation and the operation of Swift No. 1 Hydroelectric facility (located upstream of the work area) will cease, to allow for the tailrace and power canal work to be done in the dry.

Additional work outside of U.S. Army Corps of Engineers jurisdiction includes the reconstruction of State Route 503 Spur and the failed forebay embankment, the construction of the contractor's equipment and material laydown areas, the construction of the parking lot, ramp and fishing platform off Forest Road 90, and the repairs to the powerhouse and switchyard.

PURPOSE – The repair and reconstruction of the power canal, powerhouse, tailrace, and switchyard of Swift No. 2 Hydroelectric facility would return the facility to operating conditions and enable the facility to generate electricity.

ADDITIONAL INFORMATION – The Federal Energy Regulatory Commission (FERC) issued a 50-year license (License No. 2213) for the Swift No. 2 hydroelectric project in 1956. The project included the power canal, forebay, check-structure, a side channel spillway/wasteway, an intake structure, two penstocks, a powerhouse with two 35-megawatt turbine-generators, a tailrace, a primary transmission line, a switchyard and appurtenant equipment at the upstream reach of Yale Reservoir and North Fork of the Lewis River. On April 21, 2002, a 250-foot section of the forebay embankment immediately northwest of the Swift No. 2 forebay failed. This failure damaged State Route 503 Spur, the powerhouse and switchyard, filled the tailrace and extended into the upper reaches of Yale Reservoir. The forebay embankment failure displaced approximately 250,000 cubic yards of soil and rock. The failure was contributed to a lava formation (Cave Basalt) that underlies a portion of the power canal. Material removed from the tailrace will be used to rebuild State Route 503 Spur, forebay embankment, and the power canal reconstruction. A borrow area identified on Sheet 9 of 13 will be used if additional material is need in the power canal reconstruction. The proposed repair methods are under the FERC review as part of its dam safety responsibility.

ENDANGERED SPECIES - The Endangered Species Act (ESA) of 1973 requires assessment of potential impacts to listed and proposed species. The bull trout, Salvelinus confluentus, listed threatened; bald eagle, Haliaeetus leucoccephalus, listed threatened; and Northern spotted owl, Strix occidentalis caurina, listed threatened, have been listed in the state of Washington, and occur in the proposed project area. For Northern spotted owl critical habitat has been designated. The FERC as the lead agency for ESA consultation will consult with the U.S. Fish and Wildlife Service as required under Section 7 of the ESA. The FERC has made a determination that the project “ may affect, but is not likely to adversely affect” the above listed species.

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 National Marine Fisheries Service (NMFS) on all actions, or proposed actions, permitted, funded, or undertaken by the agency, that may adversely affect Essential Fish Habitat (EFH). The FERC, as the lead agency for a determination regarding EFH, will consult with the National Marine Fisheries Service if necessary. The FERC has determined that the project area does not contain EFH.

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 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 U.S. Army Corps of Engineers 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 of Washington is reviewing this work for compliance with the applicable State and Federal water quality standards pursuant to Section 401 of the Clean Water Act.

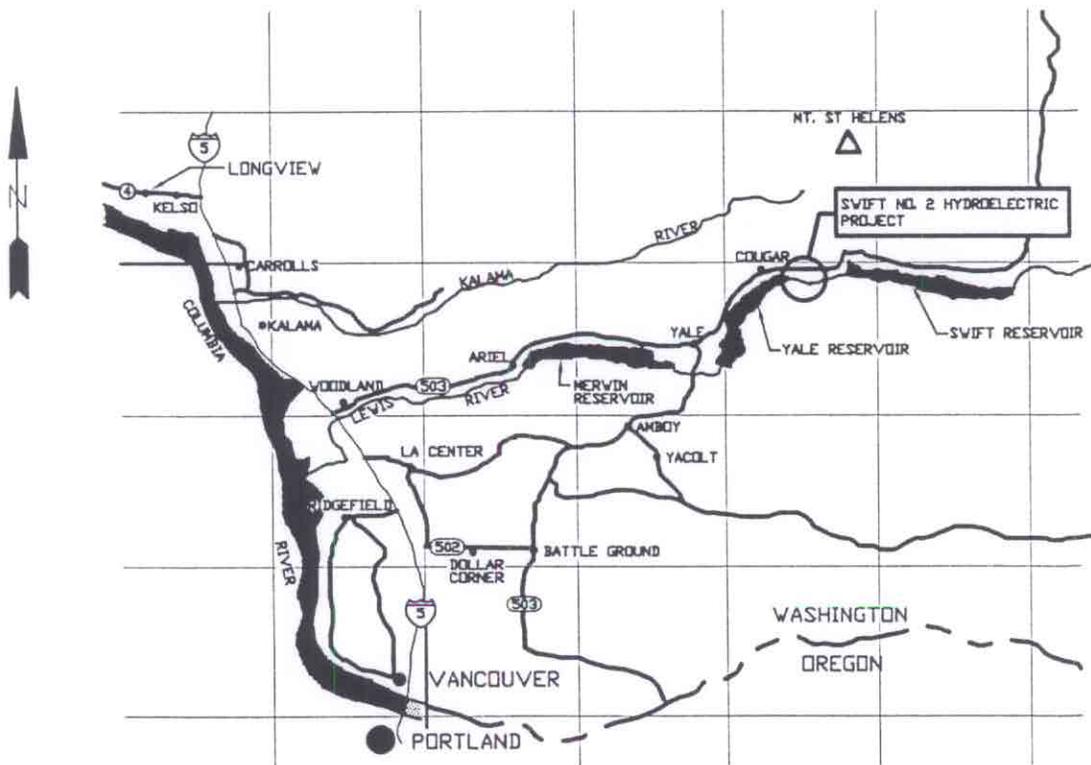
COMMENT AND REVIEW PERIOD – Conventional mail or e-mail comments on this public notice will be accepted and made part of the record and will be considered in determining whether it would be in the public interest to authorize this proposal. In order to be accepted, e-mail comments must originate from the author's e-mail account and must include on the subject line of the e-mail message the permit applicant's name and reference number as shown below. All e-mail comments should be sent to [Olivia.H.Romano@nws02.usace.army.mil](mailto:Olivia.H.Romano@nws02.usace.army.mil). Conventional mail comments should be sent ATTN: Regulatory Branch. Both conventional mail or e-mail 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 e-mail 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:

Cowlitz County Public Utility District No. 1, 200301347

Encl  
Drawings (13)



GENERAL LOCATION MAP



VICINITY MAP

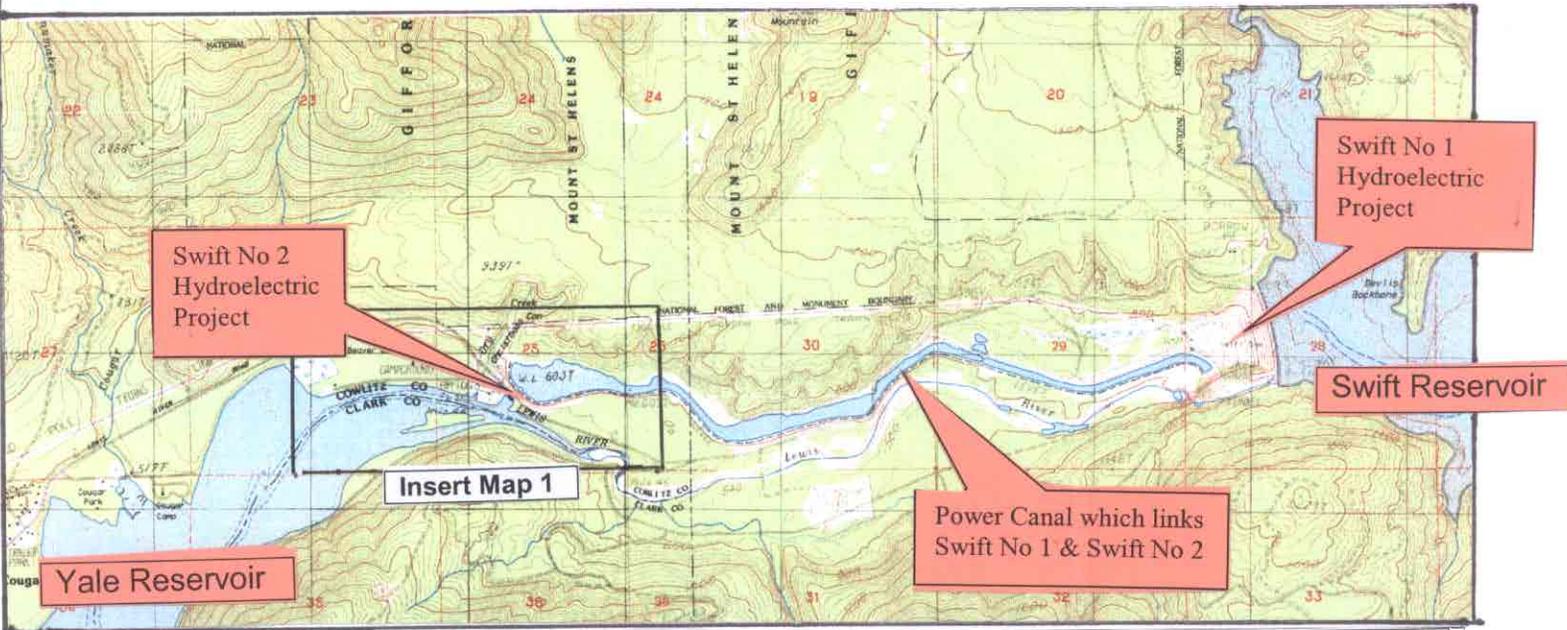
Reference: #200301347 FERC P-2213  
 Applicant: Public Utility District No.1 of Cowlitz County  
 Washington  
 Project: SWIFT NO.2 Hydroelectric Project  
 Repair & Reconstruction  
 Near: Cougar, WA.

GENERAL LOCATION  
 AND VICINITY MAP

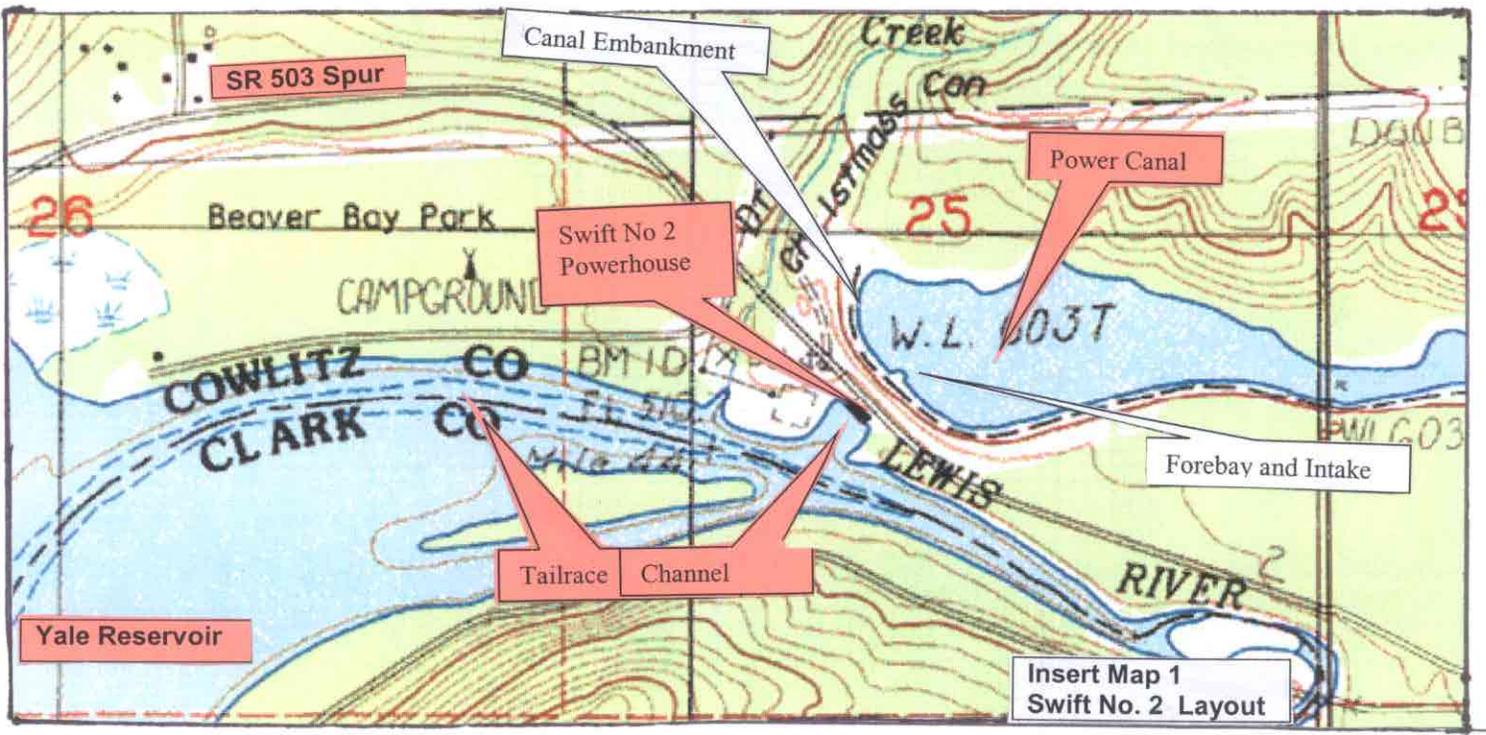
Sheet:  
 1 of 13

Figure No. 1

Date: 12/1/03



**Project Vicinity Map** - Swift No. 2 Hydroelectric Project consist of power canal, forebay, check-structure, a side channel spillway/wasteway, an intake structure, two penstocks, a powerhouse with two 35-megawatt turbine-generators, a tailrace, a primary transmission line, a switchyard and appurtenant equipment at the upstream reach of Yale Reservoir and North Fork of the Lewis River. On April 21, 2002, a section of the forebay embankment failed (see Sheet 3 of 13, Detail A). The failure damaged SR 503 Spur, the powerhouse and switchyard, filled the tailrace and upper reaches of Yale Reservoir with 250,000 cubic yards of soil and rock.



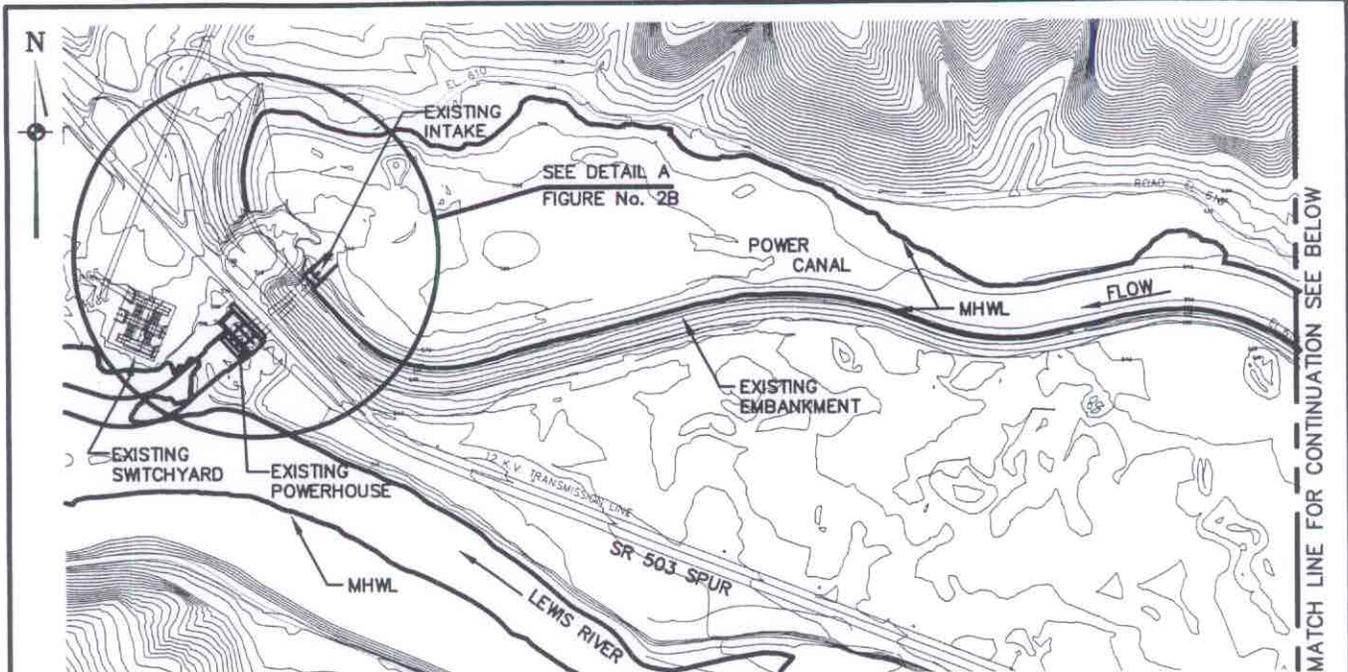
**Detailed Project Vicinity Maps**

Reference: 200301347 FERC P-2213

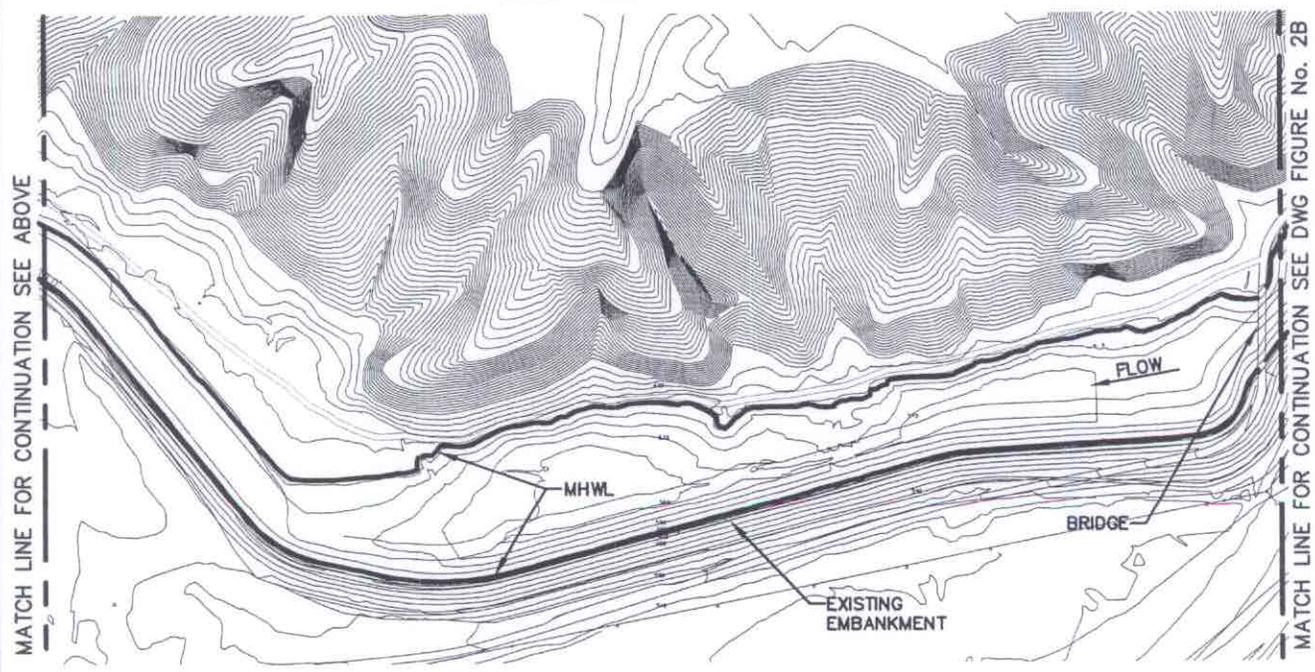
Applicant: Public Utility District No.1 of Cowlitz County

Project: Swift No. 2 Hydroelectric Project – Repair and Reconstruction, in Lewis River, near Cougar, Washington, in Cowlitz and Clark Counties

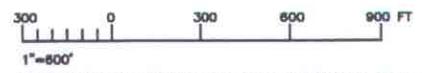
Sheet 1A of 13 Date 12/29/03



PLAN  
SCALE 1"=600'



PLAN  
SCALE 1"=600'

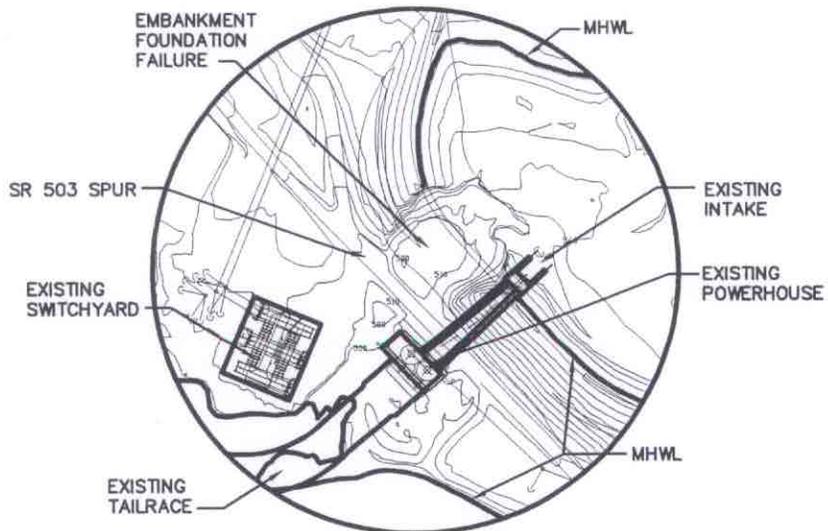
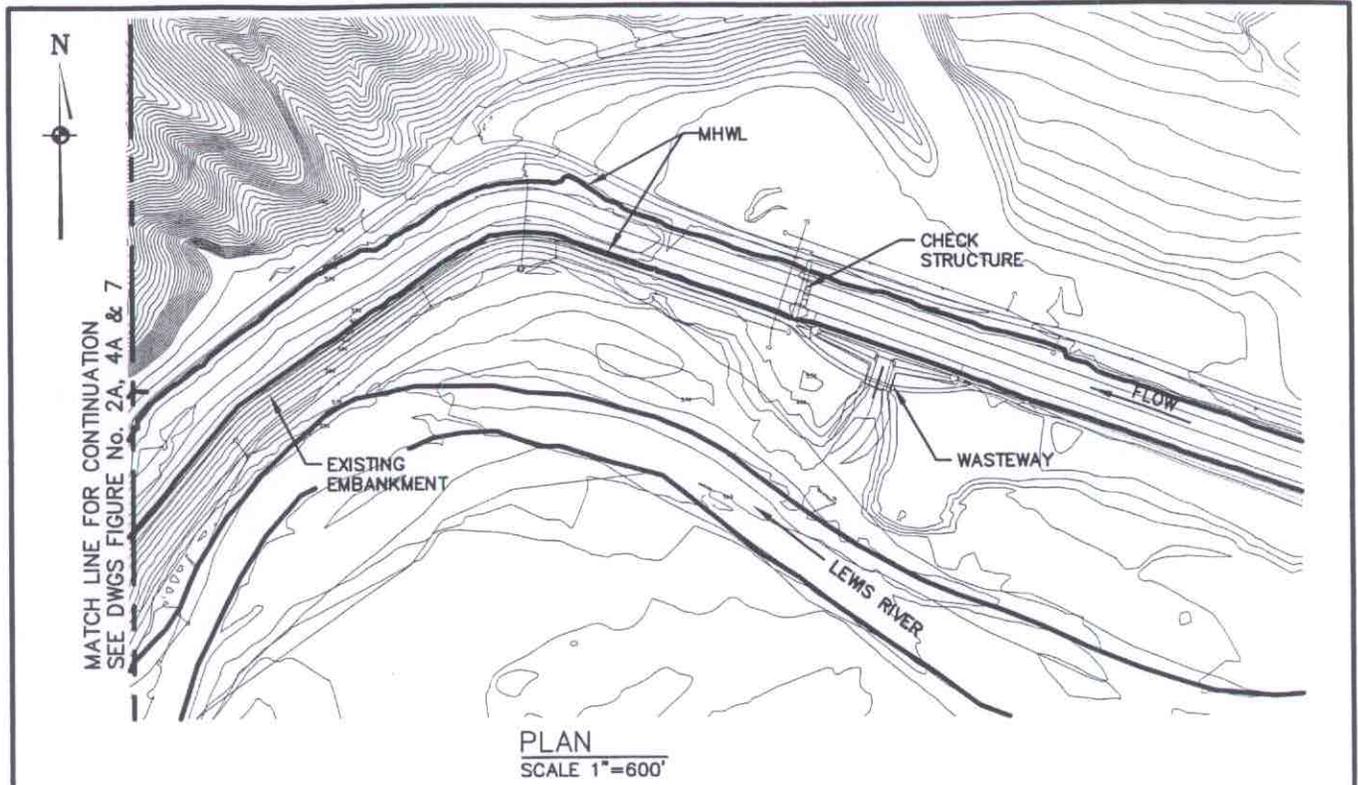


FOR CONTINUATION OF SITE DRAWING SEE FIGURE 2B

Reference: #200301347 FERC P-2213  
 Applicant: Public Utility District No.1 of Cowlitz County  
 Washington  
 Project: SWIFT NO.2 Hydroelectric Project  
 Repair & Reconstruction  
 Near: Cougar, WA.

**EXISTING  
PROJECT FACILITIES**

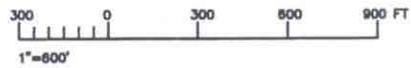
LEGEND:  
 MHWL = MEAN HIGH WATER LINE:  
 \* EL 604 IN POWER CANAL  
 EL 490 IN TAILRACE CHANNEL  
 \* SWIFT NO.2 1958 DATAM



DETAIL A  
SCALE 1"=400'  
(SEE FIGURE No. 2A)

LEGEND:

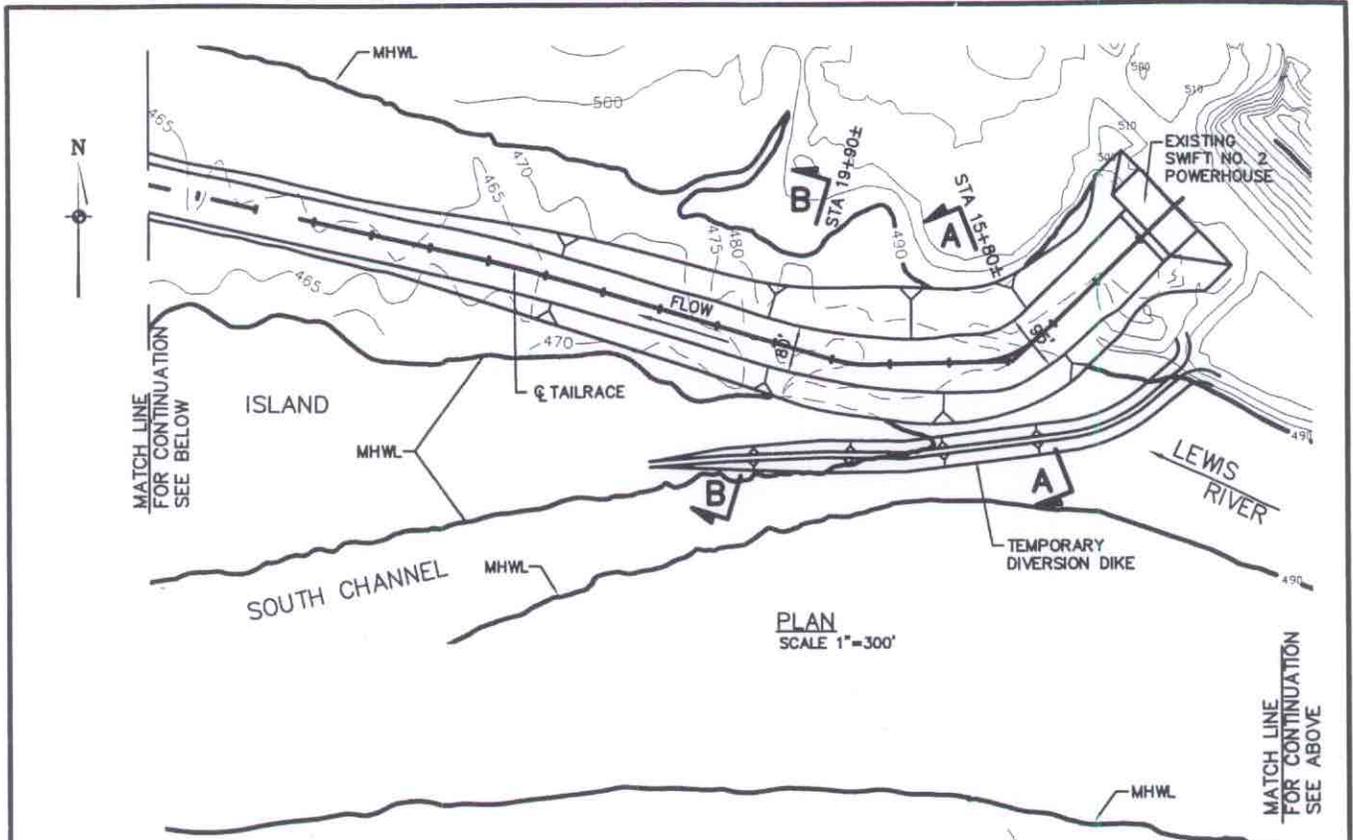
- MHWL = MEAN HIGH WATER LINE:  
 \* EL 604 IN CANAL/FOREBAY  
 EL 490 IN TAIL CHANNEL  
 \* SWIFT NO.2 1958 DATAM



FOR CONTINUATION OF SITE DRAWING SEE FIGURE 2B, 4A & 7.

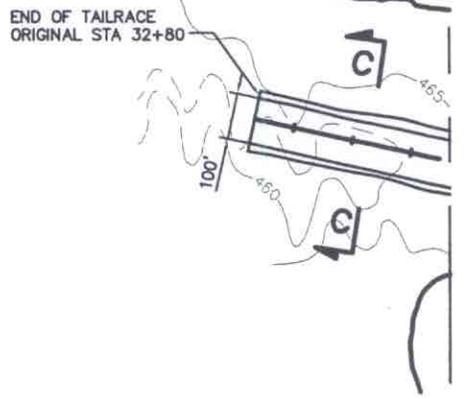
Reference: #200301347 FERC P-2213  
 Applicant: Public Utility District No.1 of Cowlitz County  
 Washington  
 Project: SWIFT NO.2 Hydroelectric Project  
 Repair & Reconstruction  
 Near: Cougar, WA.

EXISTING  
PROJECT FACILITIES

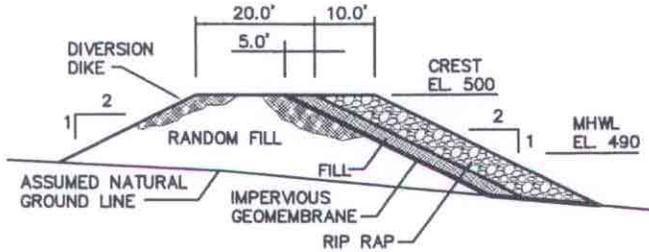


PLAN  
SCALE 1"=300'

- NOTE:
1. LENGTH OF TAILRACE FROM POWERHOUSE TO END IS 2,000 ft ±
  2. TAILRACE EXCAVATION IS 160,000 CY

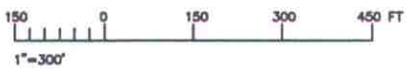


PLAN  
SCALE 1"=300'



TYPICAL SECTION  
DIVERSION DIKE  
SCALE 1"=30'

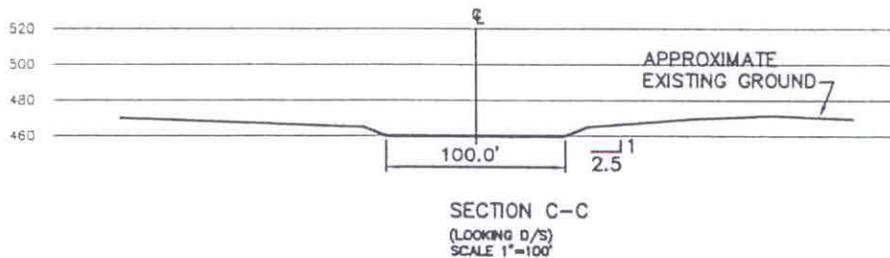
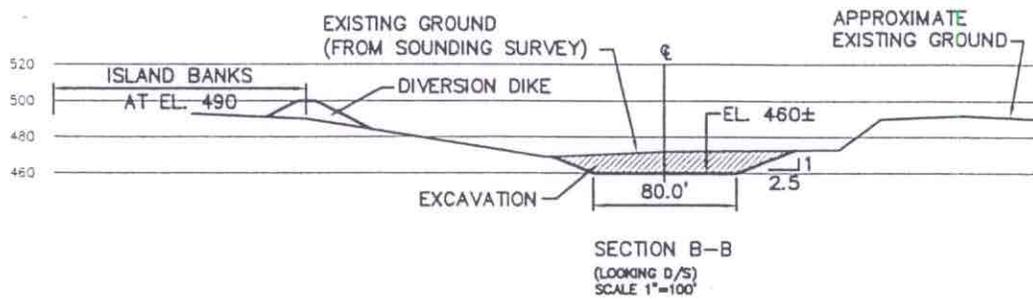
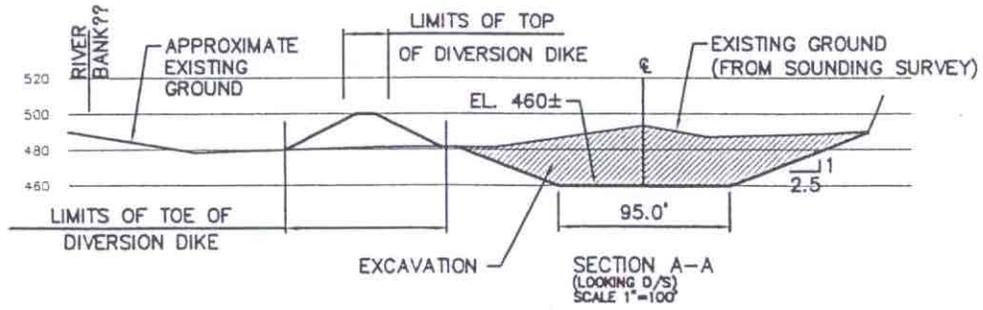
NOTE:  
TEMPORARY DIVERSION DIKE  
FILL IS 15,000 CY



SEE FIGURE FIGURE 3B FOR ASSOCIATED CROSS SECTIONS

Reference: #200301347 FERC P-2213  
 Applicant: Public Utility District No.1 of Cowlitz County  
 Washington  
 Project: SWIFT NO.2 Hydroelectric Project  
 Repair & Reconstruction  
 Near: Cougar, WA.

TAILRACE AND DIVERSION DIKE  
PLAN



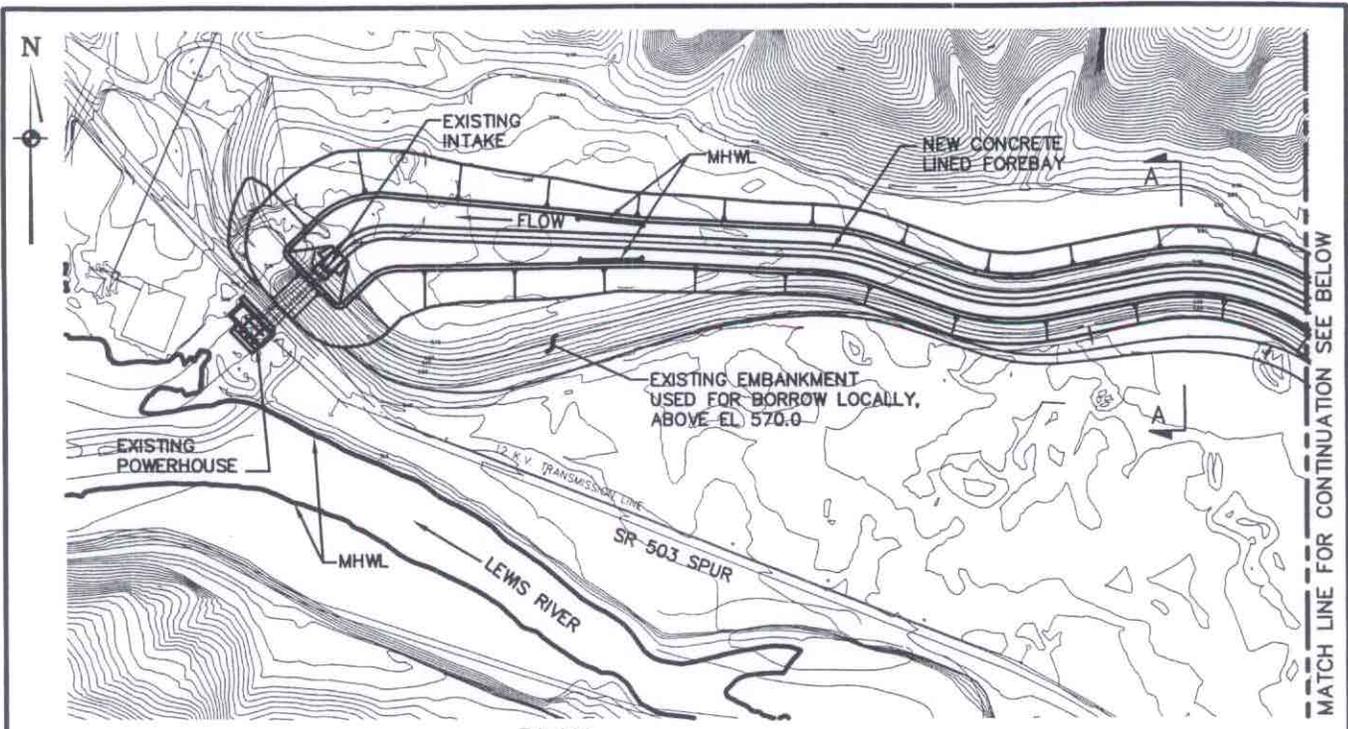
Reference: #20030 **1347** FERC P-2213  
 Applicant: Public Utility District No.1 of Cowlitz County  
 Washington  
 Project: **SWIFT NO.2 Hydroelectric Project**  
**Repair & Reconstruction**  
 Near: Cougar, WA.

**TAILRACE  
 CROSS SECTIONS**

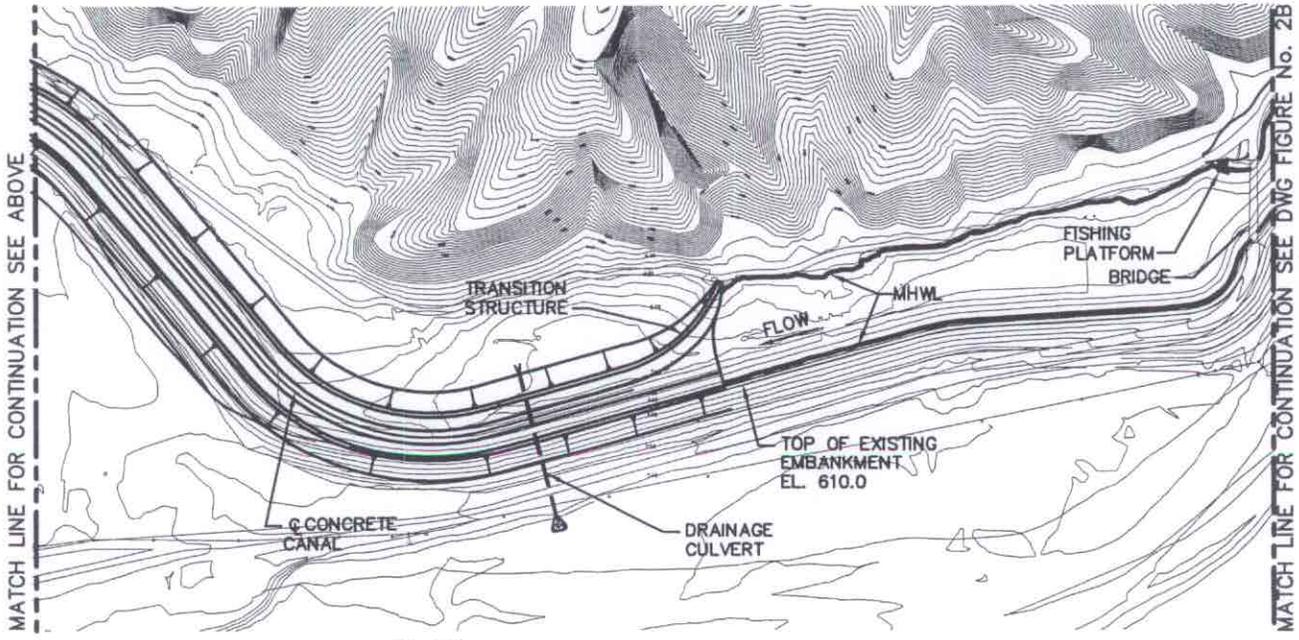
Sheet:  
 5 of 13

Figure No. 3B

Date: 12/1/03



PLAN  
SCALE 1"=600'



PLAN  
SCALE 1"=600'

300 0 300 600 900 FT

1"=600'

FOR CONTINUATION OF SITE DRAWING SEE FIGURE 2B  
SEE FIGURE 4B FOR ASSOCIATED PROFILE AND TYPICAL SECTION

LEGEND:

MHWL = MEAN HIGH WATER LINE:  
EL 604 IN CANAL/FOREBAY  
EL 490 IN TAIL CHANNEL

NOTE:

1. TOTAL FILL (MATERIAL) MOVED FOR THE POWER CANAL RECONSTRUCTION IS 1,500,000 CY.

Reference: #200301347 FERC P-2213  
Applicant: Public Utility District No.1 of Cowlitz County  
Washington

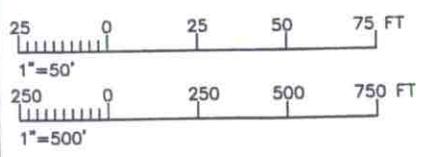
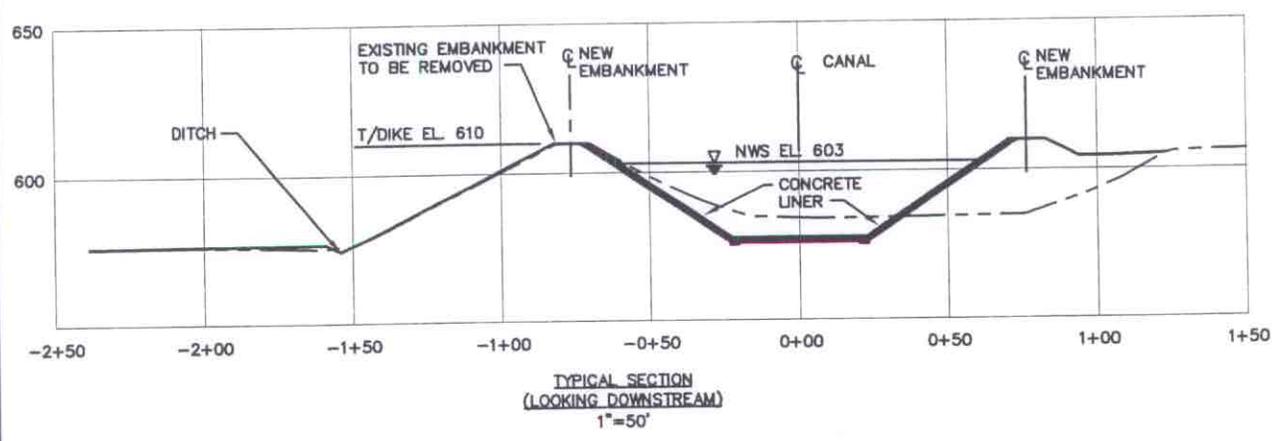
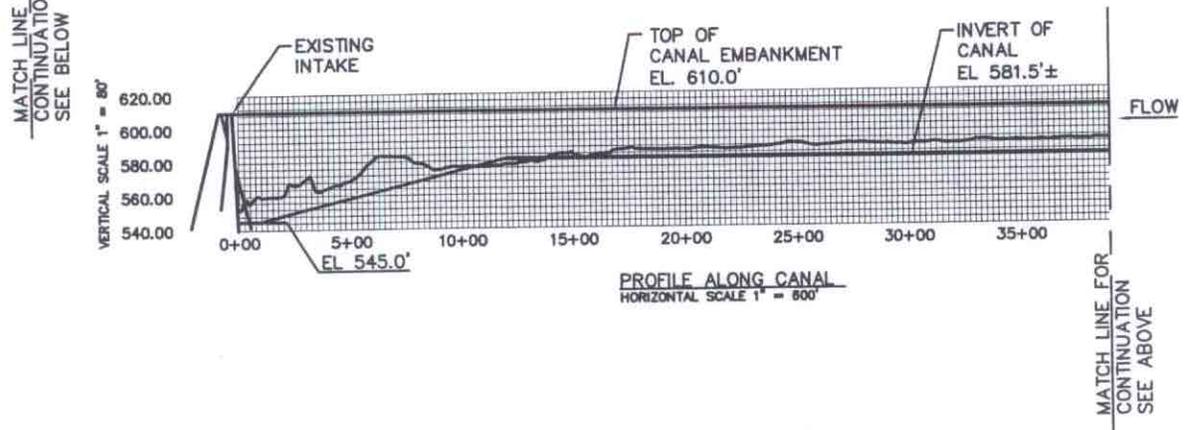
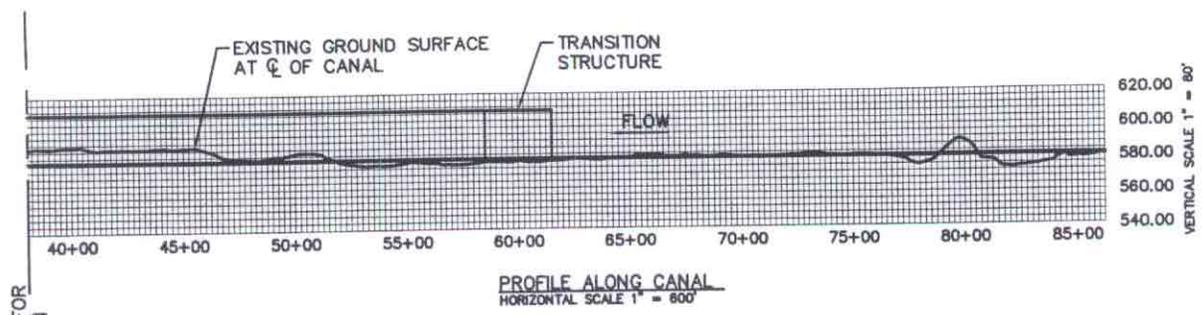
Project: **SWIFT NO.2 Hydroelectric Project  
Repair & Reconstruction**  
Near: Cougar, WA.

**CONCRETE LINED CANAL  
AND FOERBAY  
GENERAL PLAN**

Sheet:  
6 of 13

Figure No. 4A

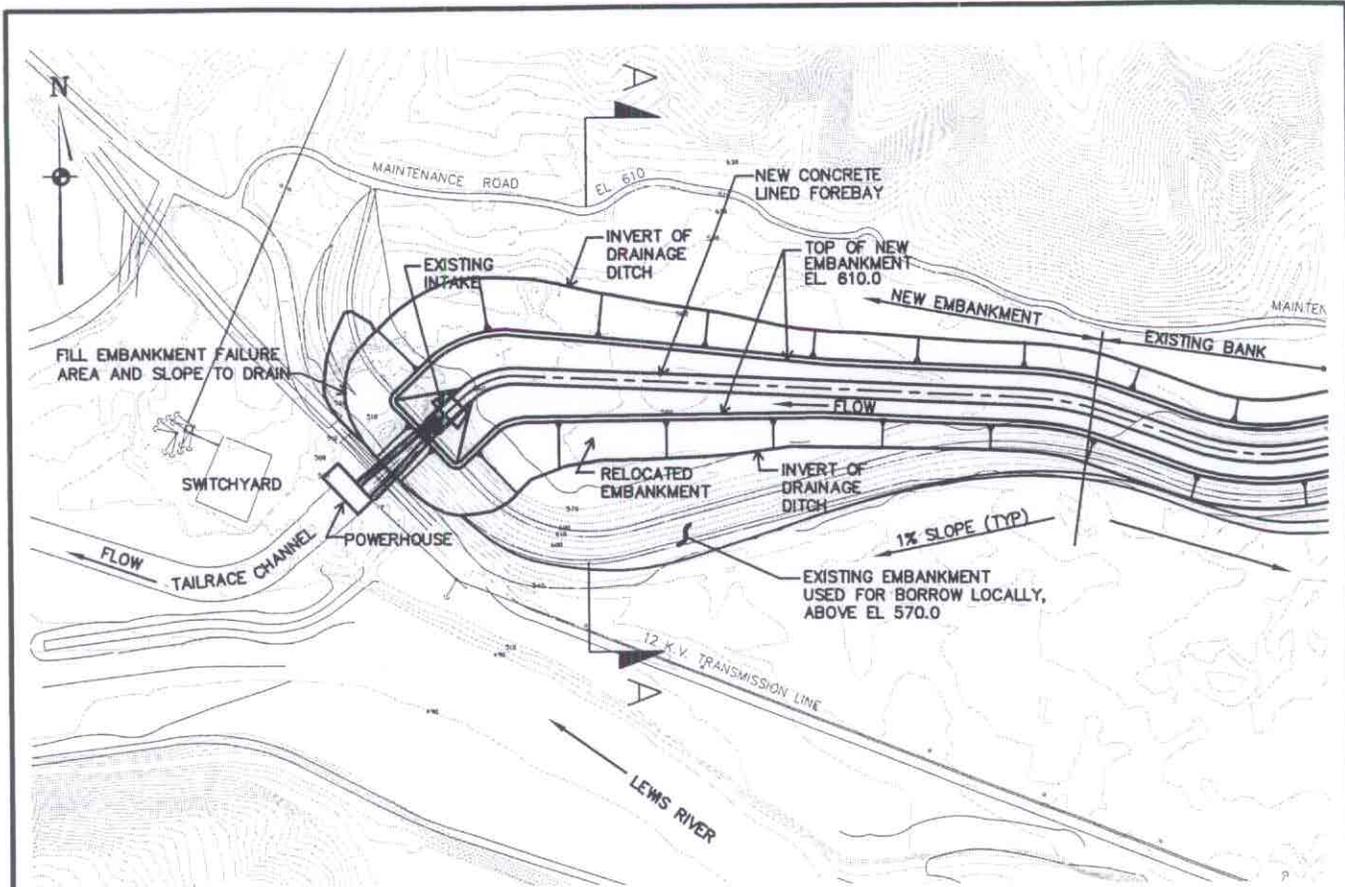
Date: 12/1/03



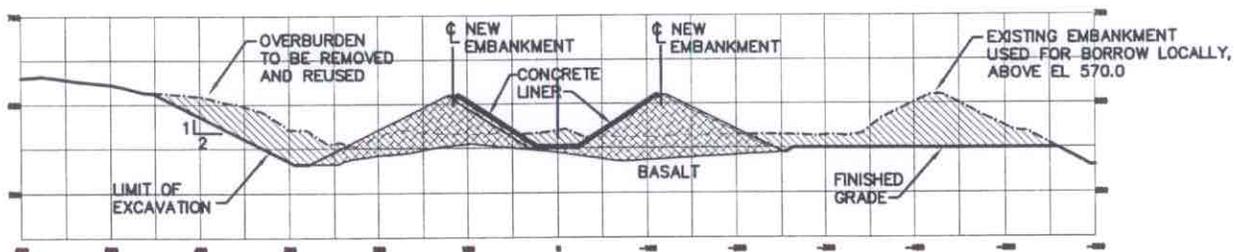
Reference: #200301347 FERC P-2213  
 Applicant: Public Utility District No.1 of Cowlitz County  
 Washington  
 Project: SWIFT NO.2 Hydroelectric Project  
 Repair & Reconstruction  
 Near: Cougar, WA.

CONCRETE LINED CANAL  
 PROFILE

Sheet: 7 of 13	Figure No. 4B	Date: 12/1/03
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PLAN  
SCALE 1"=500'



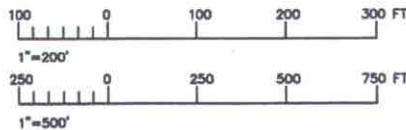
SECTION A-A  
SCALE 1" = 200'

LEGEND

-  CUT
-  FILL

LEGEND:

MHWL = MEAN HIGH WATER LINE:  
EL 604 IN POWER CANAL  
EL 490 IN TAILRACE CHANNEL



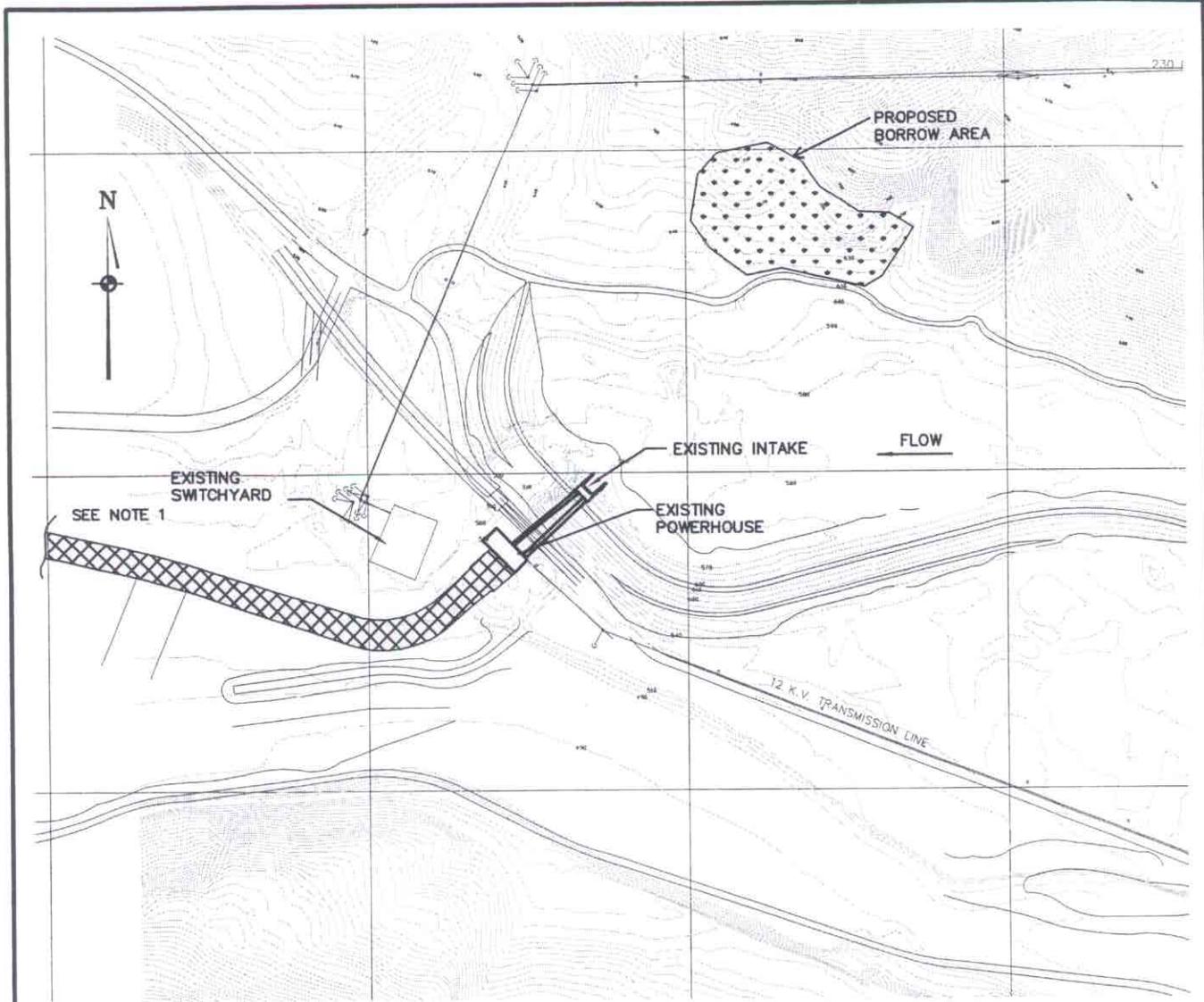
Reference: #200301347 FERC #2213  
Applicant: Cowlitz County Public Utility District No.1  
Project: SWIFT NO.2 Hydroelectric Project  
Reconstruction  
Near: Cougar, WA.

CONCRETE LINED CANAL AND FOREBAY  
RECONSTRUCTION

Sheet:  
8 of 13

Figure No. 5

Date: 12/1/03

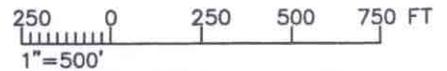


PLAN

LEGEND:

-  Proposed supplemental borrow area
-  Borrow from Tailrace for Power Canal and reconstruction See Note 1.

1. Excavation for restoration of the tailrace extends from the powerhouse a distance of approx. 2,000 feet towards Yale Lake.



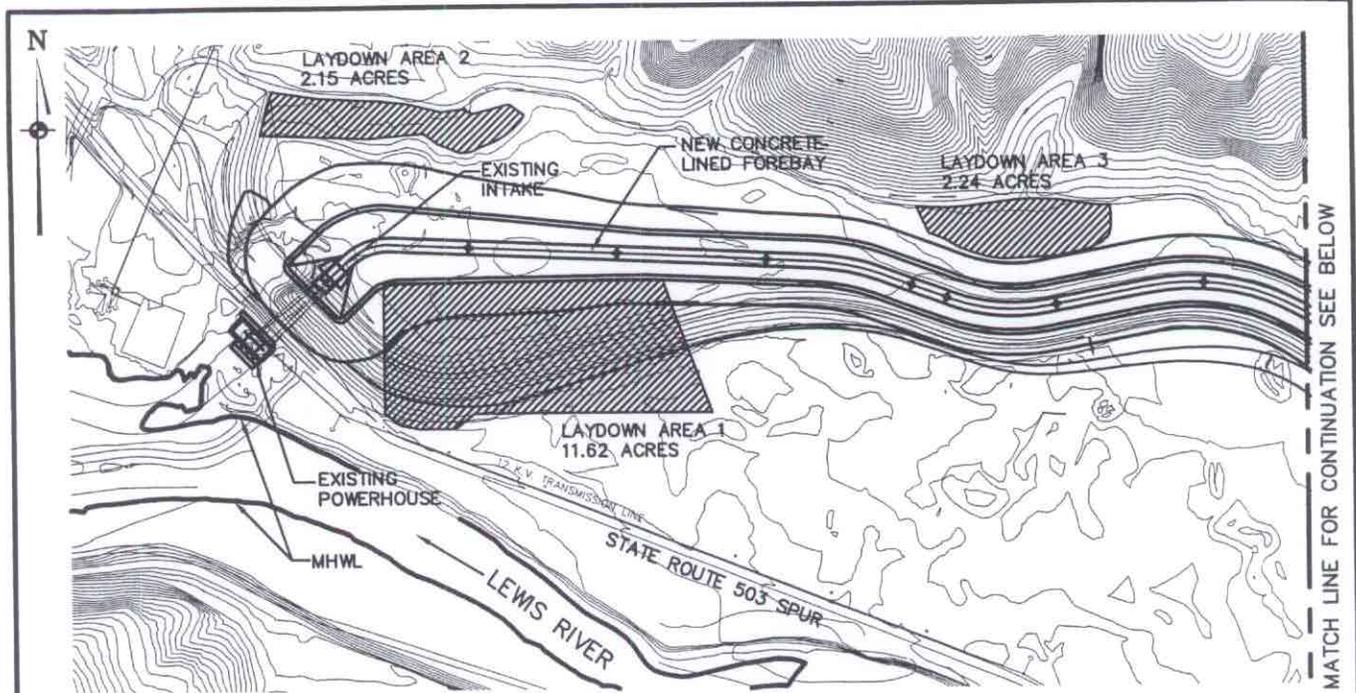
Reference: #20030 **1347** FERC P-2213  
 Applicant: Public Utility District No.1 of Cowlitz County Washington  
 Project: **SWIFT NO.2 Hydroelectric Project Repair & Reconstruction**  
 Near: Cougar, WA.

**BORROW MATERIAL PLAN**

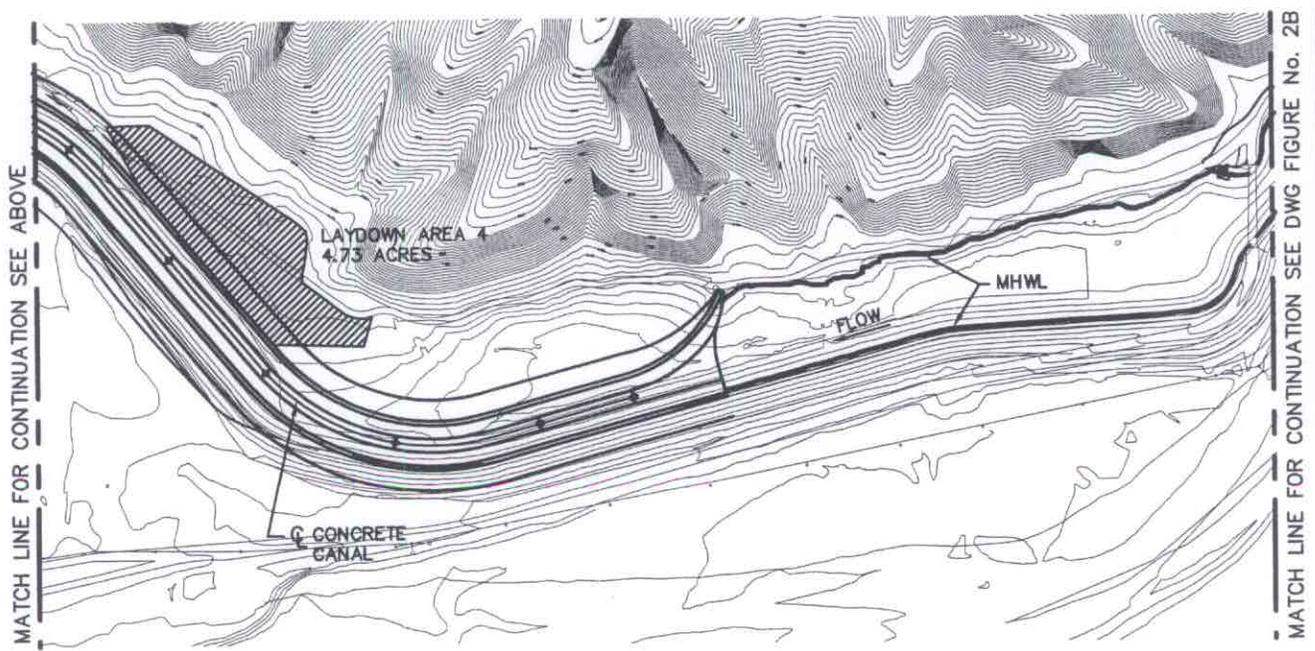
Sheet:  
9 of 13

Figure No. 6

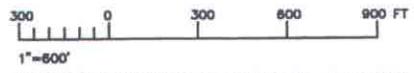
Date: 12/1/03



PLAN  
SCALE 1"=600'



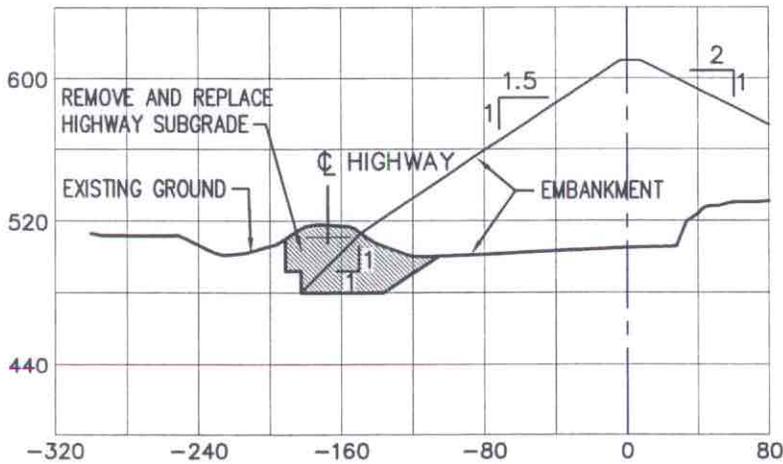
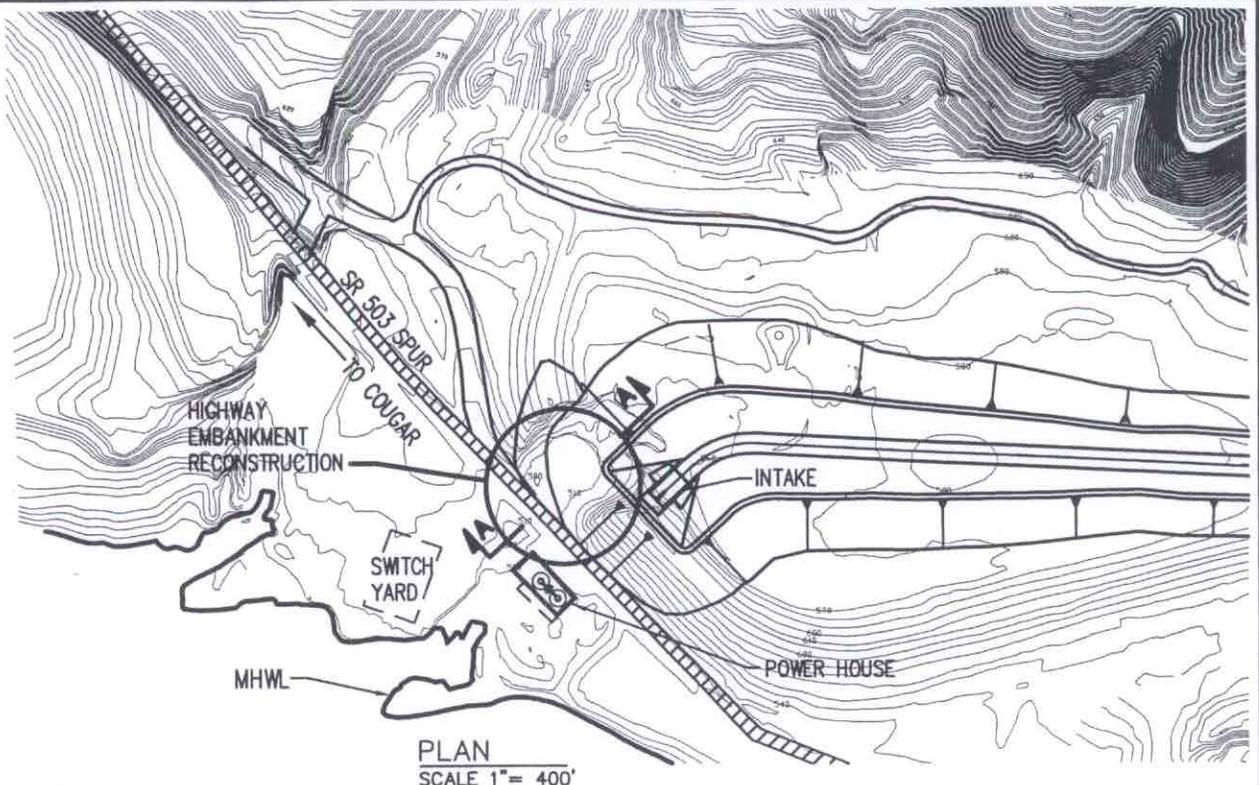
PLAN  
SCALE 1"=600'



FOR CONTINUATION OF SITE DRAWING SEE FIGURE 2B

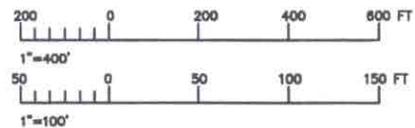
Reference: #200301347 FERC P-2213  
 Applicant: Public Utility District No.1 of Cowlitz County  
 Washington  
 Project: SWIFT NO.2 Hydroelectric Project  
 Repair & Reconstruction  
 Near: Cougar, WA.

CONTRACTOR LAYDOWN AREAS



NOTE:

REPAIR AND RECONSTRUCTION  
OF SR 503 SPUR NOT WITHIN  
THE JURISDICTION OF CORPS  
OF ENGINEERS



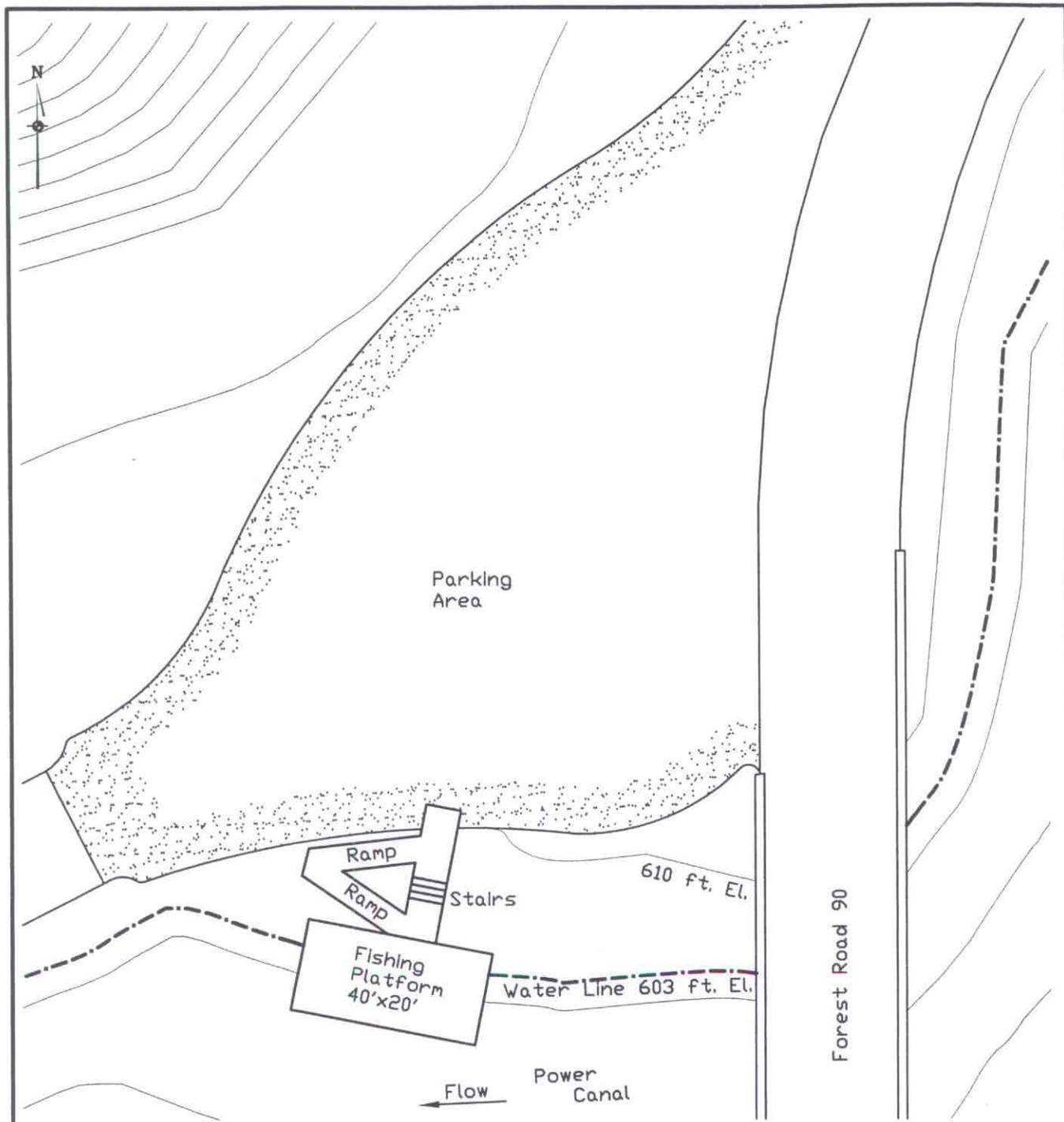
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Applicant: Public Utility District No.1 of Cowlitz County  
Washington  
Project: **SWIFT NO.2 Hydroelectric Project**  
**Repair & Reconstruction**  
Near: Cougar, WA.

**HIGHWAY REPAIR  
PLAN AND SECTION**

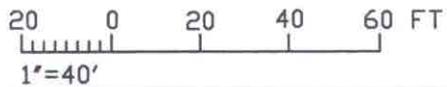
Sheet:  
11 of 13

Figure No. 8

Date: 12/1/03



PLAN  
SCALE 1"=40'



Reference: #200301347 FERC P-2213  
 Applicant: Public Utility District No.1 of Cowlitz County  
 Washington  
 Project: **SWIFT NO.2 Hydroelectric Project**  
**Repair & Reconstruction**  
 Near: Cougar, WA.

**FISHING ACCESS SITE**

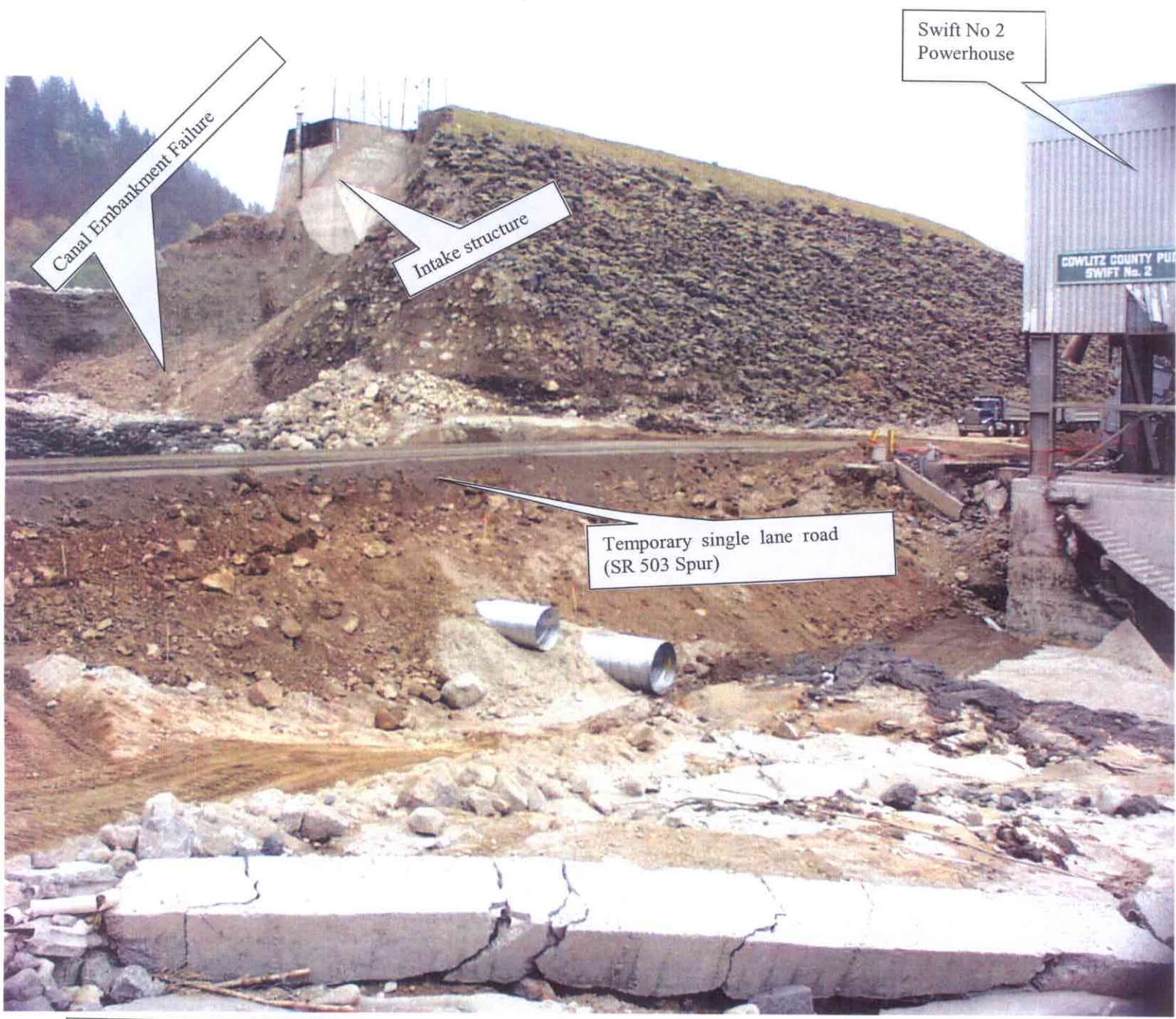
**NOTE:**

1. FOR GENERAL LOCATION OF FISHING PLATFORM  
SEE FIGURE 4A
2. PROPOSED FISHING PLATFORM ACCESS IS NOT  
WITHIN THE CORPS OF ENGINEERS JURISDICTION

Sheet:  
12 of 13

Figure No. 9

Date: 12/1/03



Canal Embankment Failure

Intake structure

Swift No 2  
Powerhouse

Temporary single lane road  
(SR 503 Spur)

COWLITZ COUNTY PUBLIC UTILITIES  
SWIFT No. 2

Swift No. 2 Hydroelectric Project - April 21, 2002 - Forebay embankment failure. The failure damaged SR 503 Spur, the powerhouse and switchyard, filled the tailrace and upper reaches of Yale Reservoir with 250,000 cubic yards of soil and rock. Corps Reference # 200301347



Swift No. 2 Hydroelectric Project - April 21, 2002 - Forebay embankment failure. The failure damaged SR 503 Spur, the powerhouse and switchyard, filled the tailrace and upper reaches of Yale Reservoir with 250,000 cubic yards of soil and rock. Corps Reference # 200301347



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: January 12, 2004

Notice is hereby 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. 200301347 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