



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: Debbie Knaub, Project Manager

Public Notice Date: December 16, 2003

Expiration Date: January 16, 2004

Reference: 200300886

Name: Douglas County Transportation
and Land Services

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 – Douglas County Transportation and Land Services
40 – 19th Street NW, Suite A
East Wenatchee, Washington 98802
ATTN: Justin Roozen
Telephone: (509) 884-7173

LOCATION – In Sand Canyon Creek and in wetlands in and adjacent to Sand Canyon Creek, near East Wenatchee, Douglas County, Washington.

WORK – Construct gabion basket wall with a wire basket liner and line creek channel with angular cobble (1150 linear feet in creek channel and in wetlands; construct 7 storm water retention dams/spillways (constructed with angular cobbles and boulders/gabion baskets/and native material in creek channel); excavate 7 retention basins in creek channel; flood Sand Canyon Creek behind retention dams/spillways during high water events.

All work will occur in Sand Canyon Creek and in wetlands in and adjacent to Sand Canyon Creek. Total fill area in wetlands is 0.97 acres, total flooding area in wetlands is 0.21 acres up to 12.5 feet deep, total fill in creek channel waterward of ordinary high water is 0.11 acres, total flooding in creek channel waterward of ordinary high water is 0.18 acres, and total excavation in creek channel waterward of ordinary high water is 0.23 acres. The proposal will require monitoring and periodic maintenance removal of sediment from the constructed basins.

PURPOSE – Protect a public road (landslide stabilization with gabion basket wall and channel stabilization with angular cobble lining of creek channel); reduce flooding impacts to public road and residential area (flood water and sediment retention through 7 retention dams/spillways and seven retention basins).

ADDITIONAL INFORMATION – Proposal is being funded by the Federal Emergency Management Agency under the Hazard Mitigation Grant Program (Nisqually Earthquake disaster funding). Flash flooding and landslides occur in Sand Canyon and its alluvial floodplain. Private property damage, damaged roads, roadside ditches and embankments (in the alluvial fan), sedimentation and accelerated movement of existing landslide occur during high water events. The alluvial fan is inactive below the Sand Canyon Creek channel to the Columbia River because urban development has confined normal flood flows to a channel and culverts. Flooding exceeds the capacity of the culverts and the confined channel.

Sand Canyon is a seasonal creek (5.5 miles long) that flows into the Columbia River (drainage area 2900 acres, originates at an elevation of 3300 feet and drops to an elevation of 600 feet at the Columbia River). Sediment in the channel originates in the farmed ridge above. The proposal will temporarily store excess floodwater and release it at a slower rate. Basins are designed to drain quickly (within 48 hours) via a low-level outlet. The basins are located to capture water from smaller sub catchments.

The gabion wall is designed to hold the Badger Mountain Road landslide above Sand Canyon and to create a hardened (stable) stream flow channel for the part of the Sand Canyon channel below the slide. Badger Mountain Road traverses the upper portion of the slide and the Sand Canyon channel is located at the toe of the slide. High flows in the channel erode the toe, increasing slide potential and threatening the road, which is the only access to housing developments.

The wetland delineation for the proposal delineated a total of 2.5 acres of wetlands in Sand Canyon Creek. There are 3 separate wetlands and the wetlands are scrub shrub and forested.

MITIGATION – The applicant and their consultant are developing a mitigation proposal.

ENDANGERED SPECIES - The Endangered Species Act (ESA) of 1973 requires assessment of potential impacts to listed and proposed species. The Federal Emergency Management Agency as the lead agency for ESA consultation, has determined that the proposed project will have no effect on 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 Corps has determined that the proposed action will not adversely affect designated EFH for federally-managed fisheries in Washington waters. No further EFH consultation is necessary.

CULTURAL RESOURCES – The Federal Emergency Management Agency 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

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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.

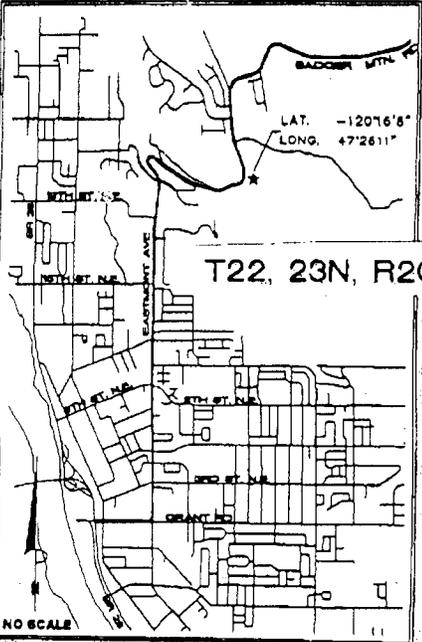
This proposal is the subject of a Shorelines Substantial Development Permit, being processed by Douglas County.

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 Deborah Knaub, Project Manager at deborah.j.knaub@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:

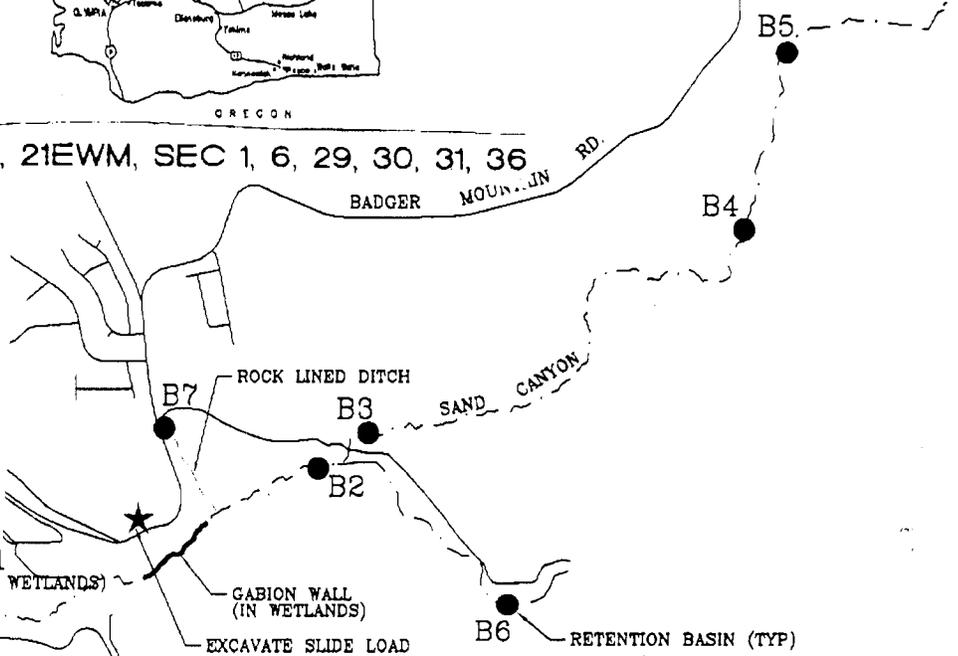
Douglas County Transportation and Land Services,
200300886

Encl
Drawings 8

VICINITY MAP

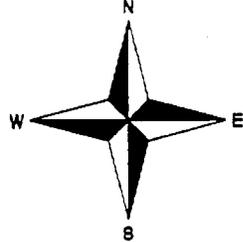


T22, 23N, R20, 21EWM, SEC 1, 6, 29, 30, 31, 36

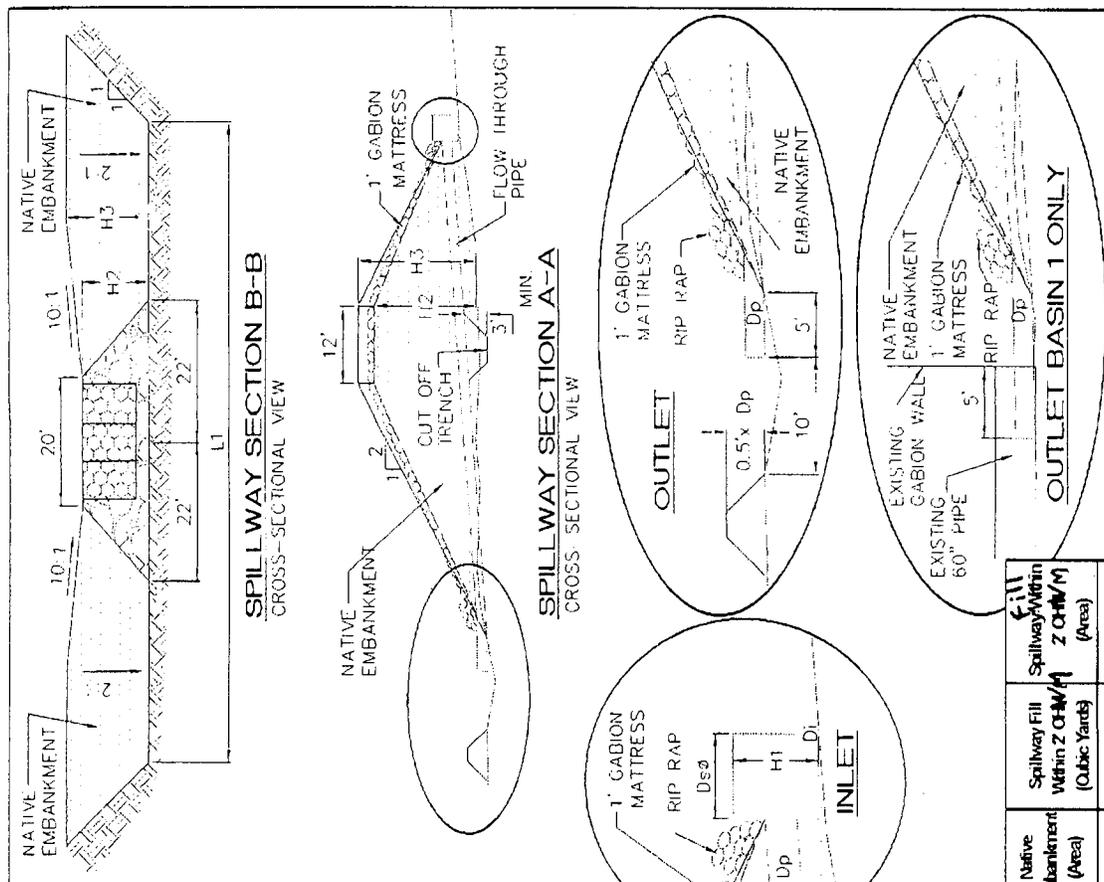


LAT -120°16'50"
LONG. 47°28'00"

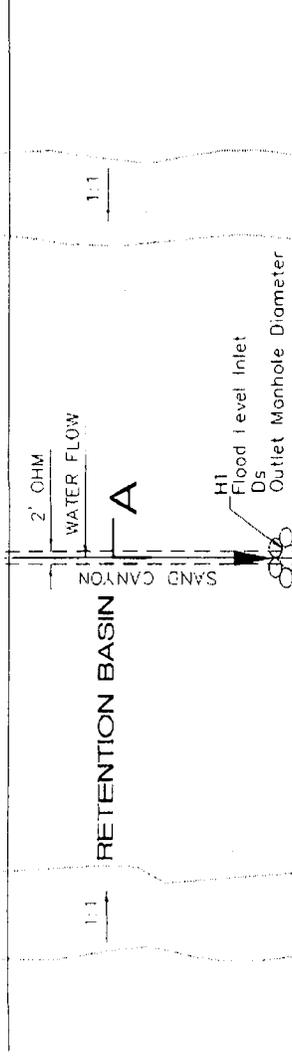
NOTE:
B1-B7 ARE SPILLWAYS
& RETENTION BASINS
IN SANDCANYON CREEK.



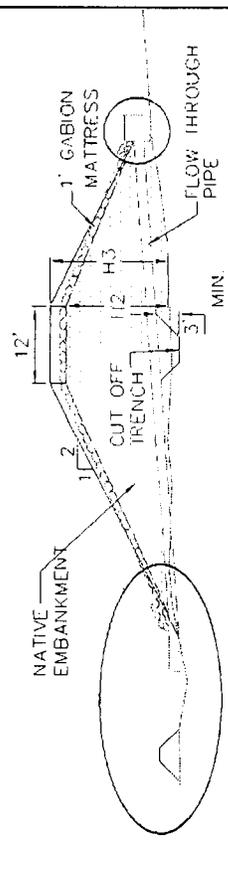
PURPOSE: SEDIMENT/WATER CONTROL/ SLIDE STABILIZATION	APPLICANT: DOUGLAS COUNTY TRANSPORTATION & LAND SERVICES	PROPOSED: CONSTRUCT 7 RETENTION BASINS, GABION WALL, EXCAVATE SLIDE LOAD & ROCK LINE DITCH	
ADJACENT PROPERTY OWNERS: 1. Robert C. Burgess 2. Carl Cunningham 3. Vance D. Earhart 4. J. Kirk Bromiley 5. Noreen Daling & Marleen Wittern 6. Patricia & Conrad Munch 7. Badger Mt. FLP & Kenoyer	REFERENCE NO.: 2003-00886 LOCATION ADDRESS: N/A DATUM: HORZ. NAD83 VERT NAVD88	IN: SAND CANYON	DATE: 11/14/03
		AT: EAST WENATCHEE	1
		COUNTY: DOUGLAS	STATE: WA 1 of 2



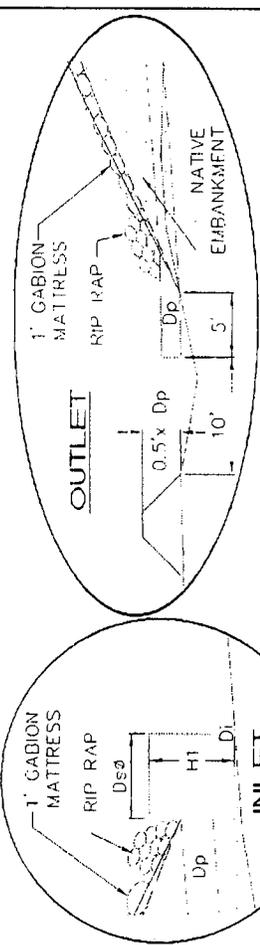
TYPICAL SPILLWAY AND RETENTION BASIN
PLAN VIEW



SPILLWAY SECTION B-B
CROSS-SECTIONAL VIEW



SPILLWAY SECTION A-A
CROSS-SECTIONAL VIEW



OUTLET BASIN 1 ONLY

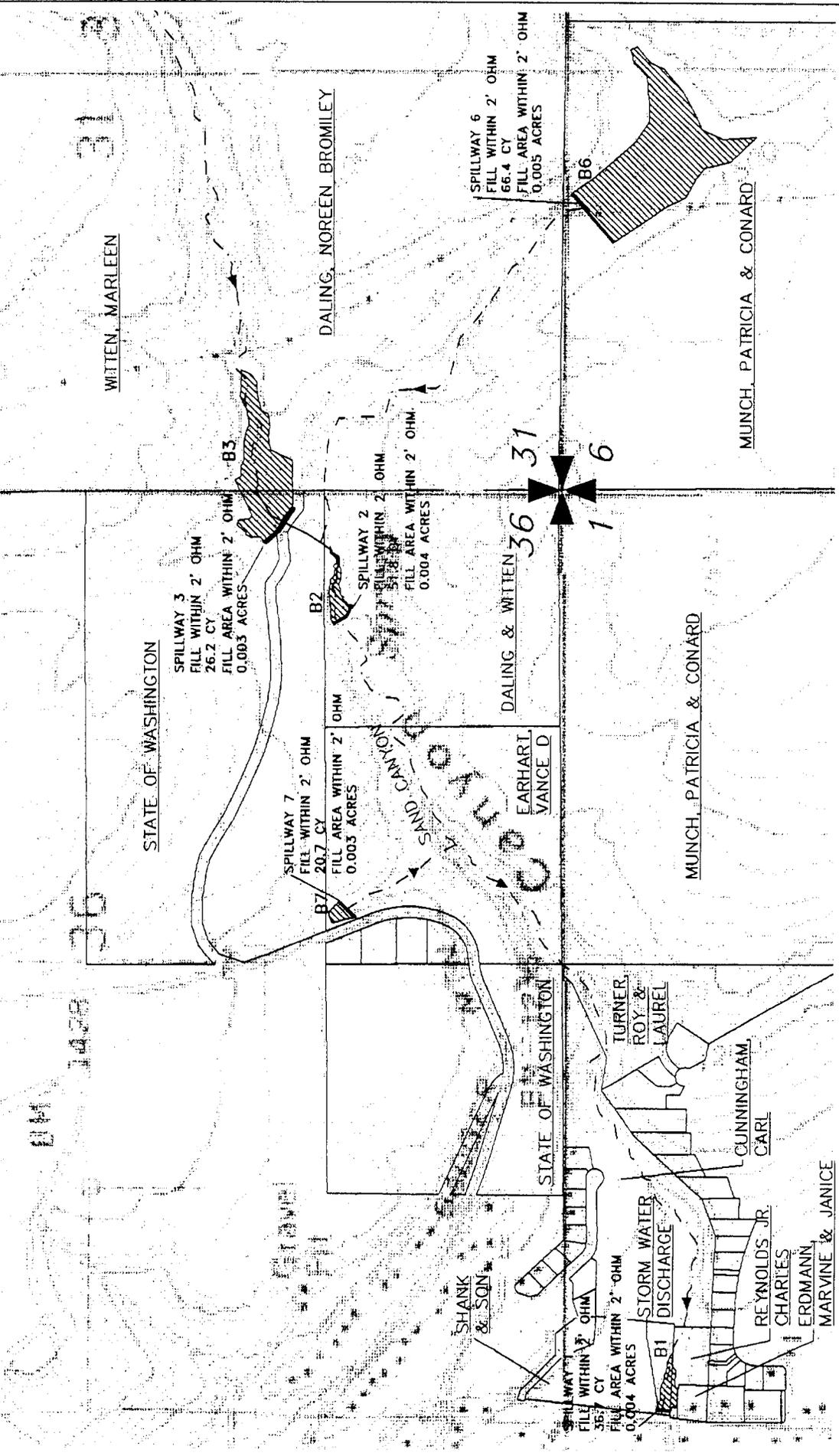
H1 Flood Level Inlet (feet)	H2 Spillway Height (feet)	H3 Max Embankment Height (feet)	Ds Outlet Manhole Diameter (inches)	Dp Pipe Diameter (inches)	Flow Through Pipe Length (feet)	D1 O-M/Flow Inlet (inches)	Basin Excavation (Cubic Yards)	Native Embankment (Cubic Yards)	Native Embankment (Area)	Spillway Fill Within 2' OHM/M (Cubic Yards)	Spillway Within 2' OHM/M (Area)
3	12.5	14.0	60	36	72	15	13200	1,160	0.12 ACRE	36.7	0.004 ACRE
3	16.0	17.5	48	24	82	12	3360	1,600	0.25 ACRE	51.8	0.004 ACRE
7	10.0	11.5	54	15	58	8	11,560	10,180	0.36 ACRE	26.2	0.003 ACRE
3	27.5	29.0	48	15	132	12	6,710	6,520	0.18 ACRE	139	0.006 ACRE
3	18.0	19.5	48	15	90	8	9,200	4,700	0.18 ACRE	66.4	0.006 ACRE
6	18.0	19.5	48	12	90	12	7,480	4,800	0.56 ACRE	66.4	0.006 ACRE
3	8.5	10.0	36	12	56	4	1,360	1,560	0.21 ACRE	20.7	0.003 ACRE

REFERENCE NO.: 2003-00886 DATE: 11-14-03

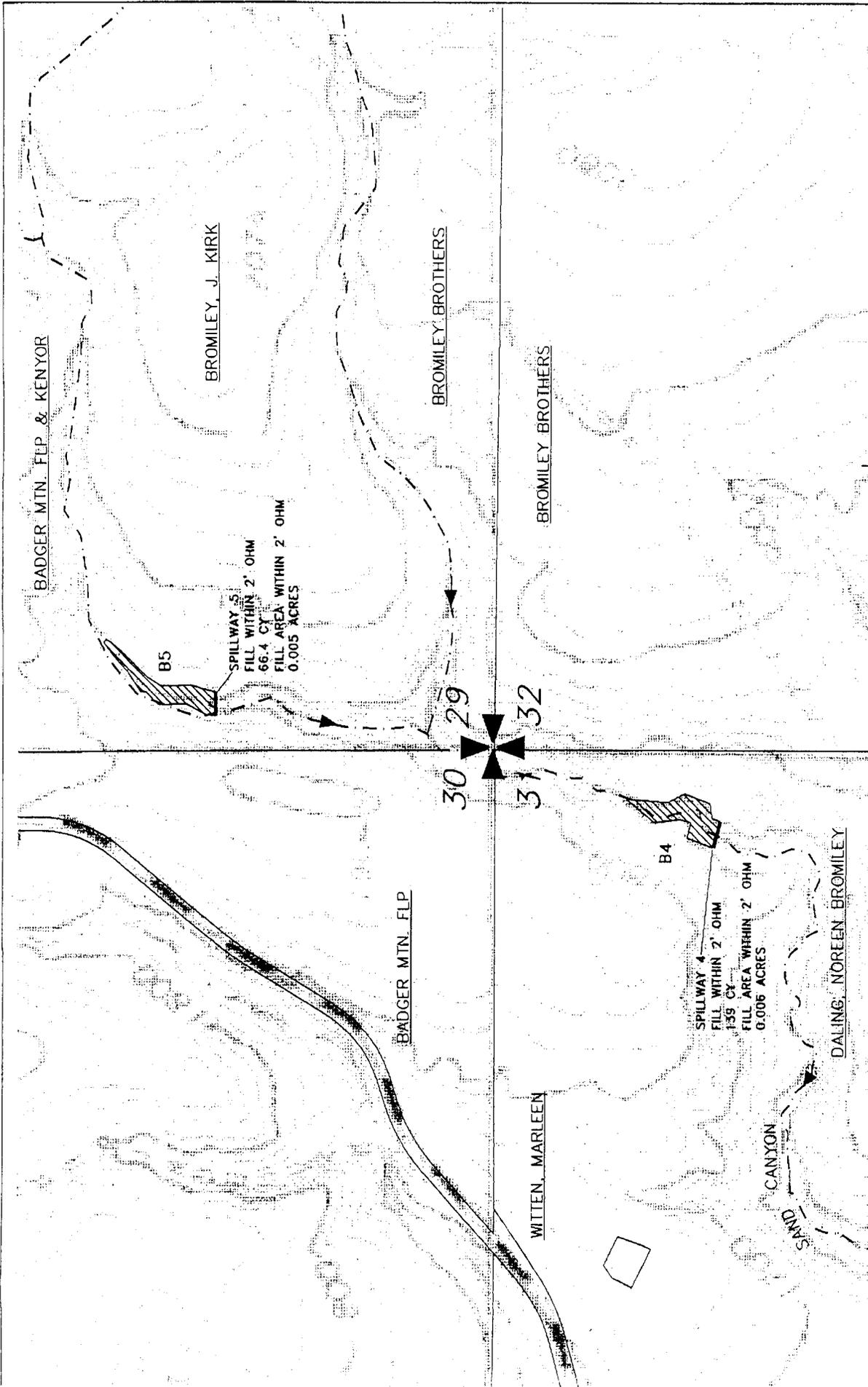
APPLICANT: DOUGLAS COUNTY
TRANSPORTATION + LAND SERVICES

PROPOSED:
CONSTRUCT 7 RETENTION BASINS, GABION WALL
EXCAVATE SLIDE LOAD + ROCK LINE DITCH

A.T. EAST WENATCHEE STATE: WA
COUNTY: DOUGLAS

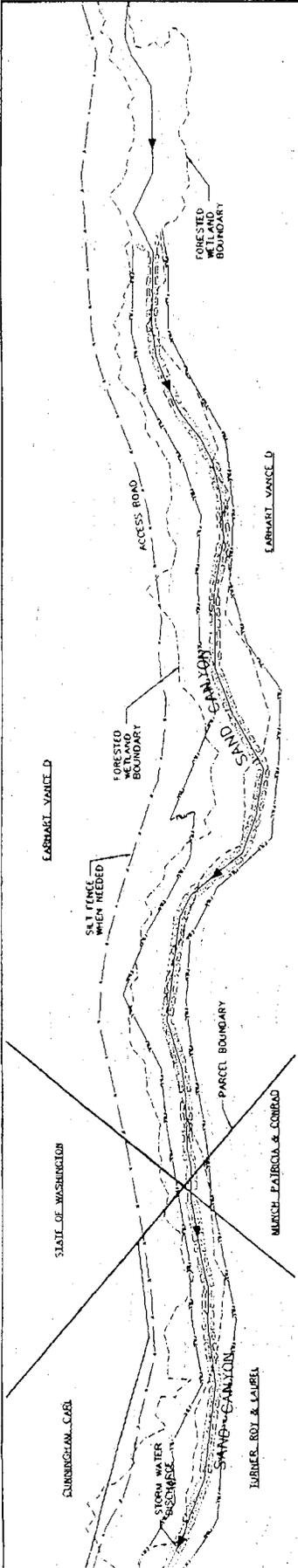


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PROPOSED: CONSTRUCT 7 RETENTION BASINS, GABION WALL, EXCAVATE SLIDE LOAD + ROCK LINE DITCH	
AT: EAST WENATCHEE	STATE: WA
COUNTY: DOUGLAS	3 3 003

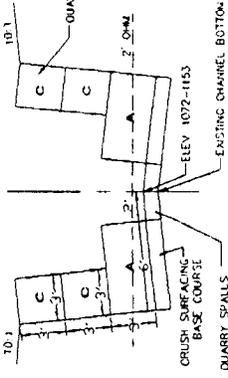


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AT: EAST WENATCHEE	4
COUNTY: DOUGLAS STATE: WA	4 OF 8

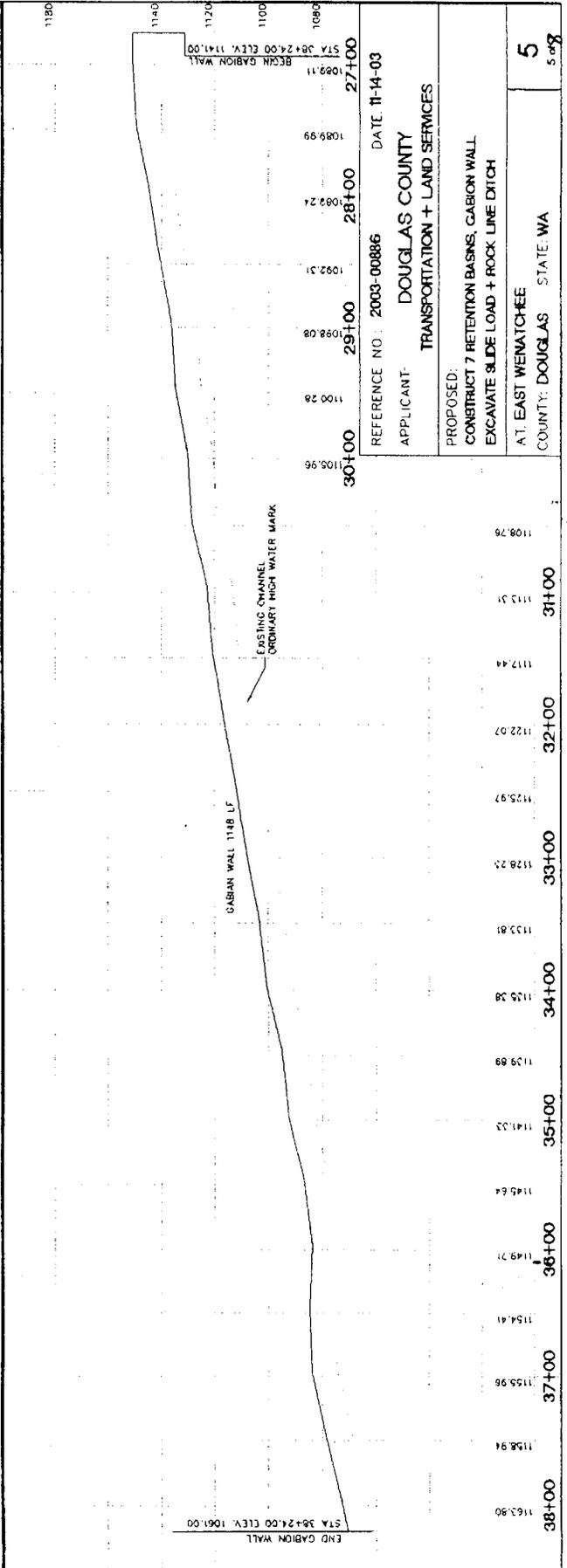




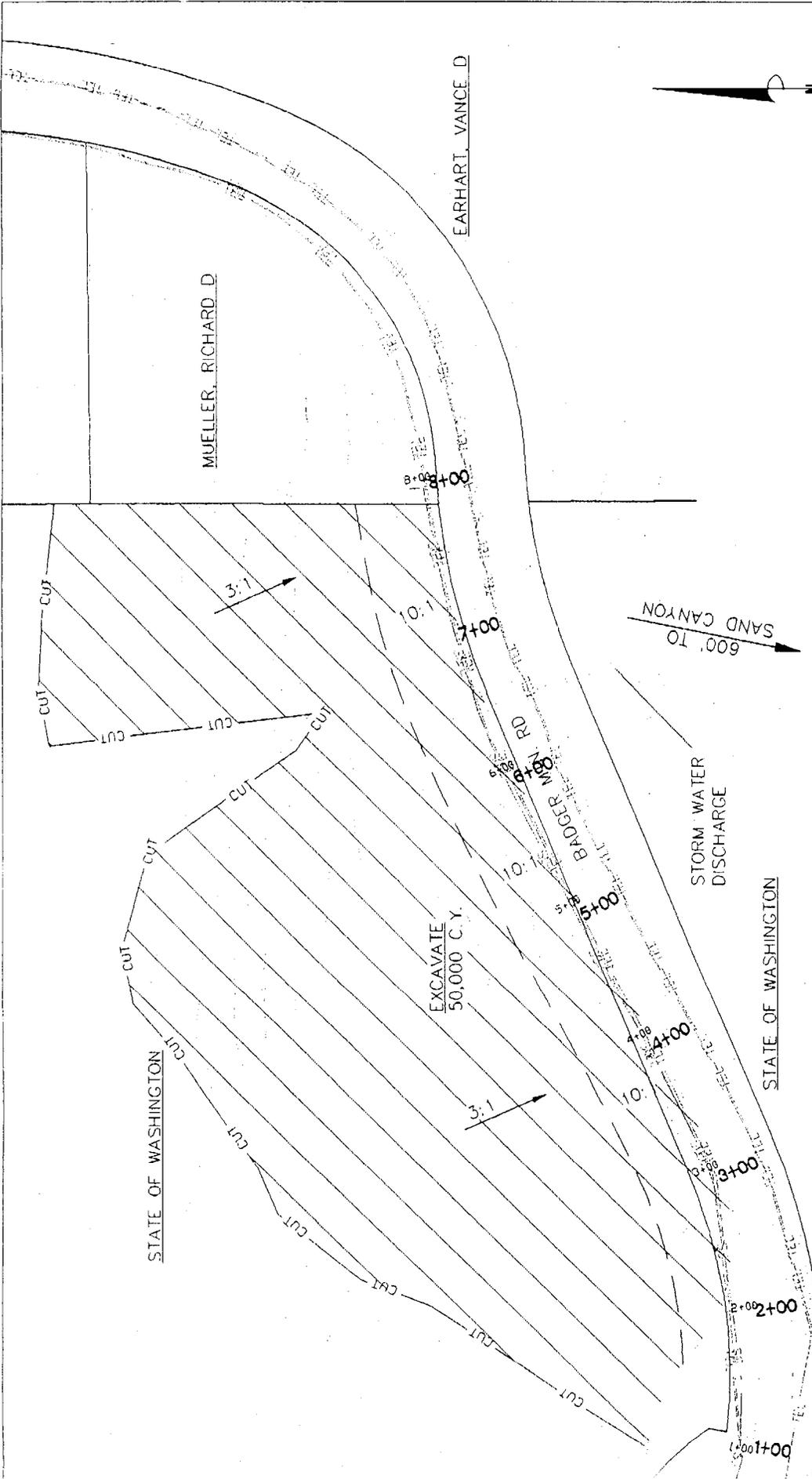
GABION WALL AND ROCK LINED CHANNEL (IN WETLANDS)
 PLAN VIEW



GABION WALL
 GROSS-SECTIONAL VIEW
 NATIVE EMBANKMENT 1747.01 CY
 EXCAVATION 1559.61 CY
 QUARRY SPALLS 2470.22 CY
 BASE COURSE 570.22 CY
 AREA 0.84 AC
 FILL WATERWARD OHM 2286 CY
 FILL IN WETLANDS OHM 0.885 AC
 FILL IN WETLANDS OHM 0.023 AC

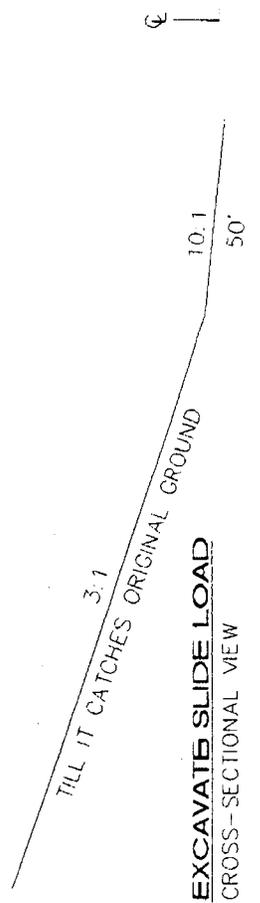


REFERENCE NO. 2003-00886	DATE 11-14-03
APPLICANT DOUGLAS COUNTY	
PROPOSED: TRANSPORTATION + LAND SERVICES	
CONSTRUCT 7 RETENTION BASINS, GABION WALL	
EXCAVATE SLIDE LOAD + ROCK LINE DITCH	
AT EAST WENATCHEE	5
COUNTY: DOUGLAS	STATE: WA



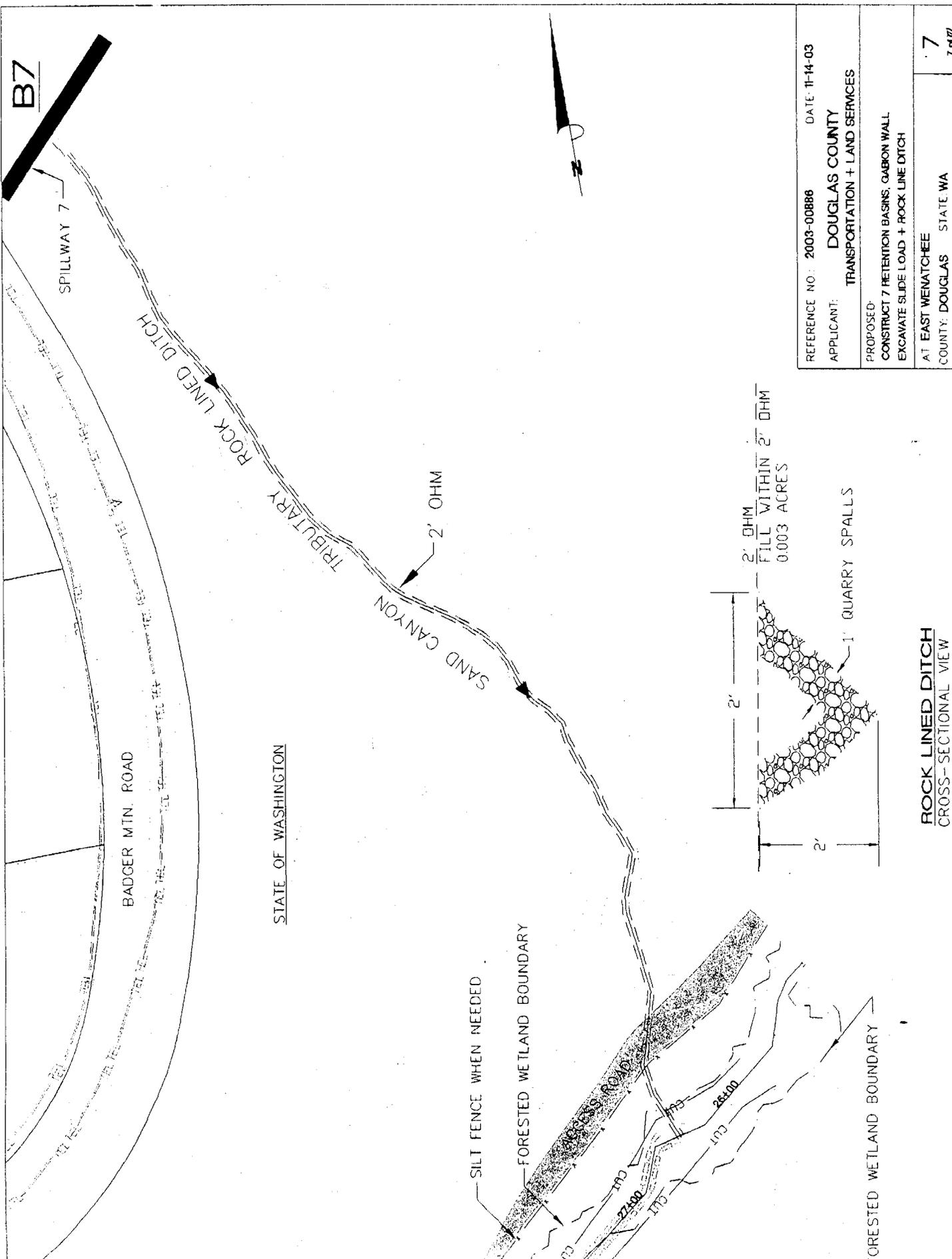
EXCAVATE SLIDE LOAD (ALL IN UPLANDS)

PLAN VIEW



EXCAVATE SLIDE LOAD
CROSS-SECTIONAL VIEW

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PROPOSED: CONSTRUCT 7 RETENTION BASINS, GABION WALL EXCAVATE SLIDE LOAD + ROCK LINE DITCH	
AT: EAST WENATCHEE	STATE: WA
COUNTY: DOUGLAS	6 0.00g



B7

SPILLWAY 7

BADGER MTN. ROAD

ROCK LINED DITCH

TRIBUTARY

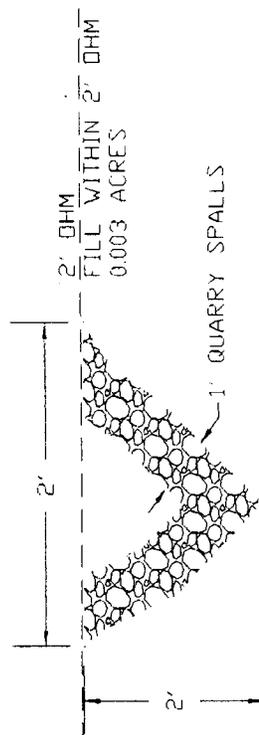
SAND CANYON

STATE OF WASHINGTON

SILT FENCE WHEN NEEDED

FORESTED WETLAND BOUNDARY

FORESTED WETLAND BOUNDARY



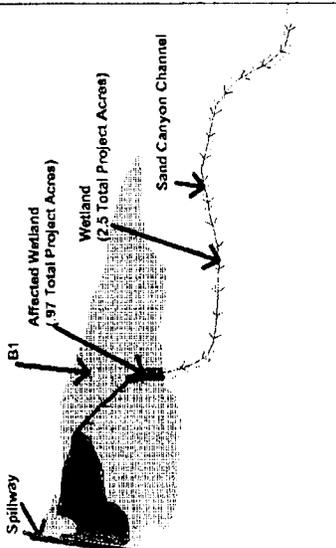
ROCK LINED DITCH
 CROSS-SECTIONAL VIEW

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AT EAST WENATCHEE	STATE: WA
COUNTY: DOUGLAS	

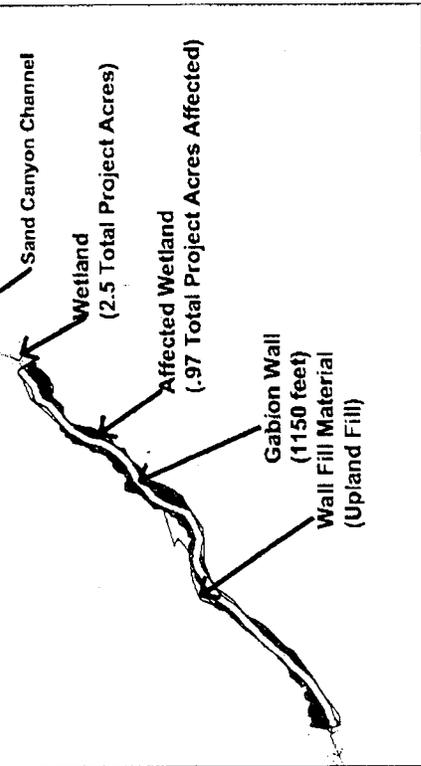
7
7 of 8

Sand Canyon Flood Hazard Mitigation Project Overview

Blowup of B1 (not to scale)



Blowup of Gabion Wall (not to scale)



B5-66.4 Cubic Yards fill
within 2 foot OHM (.005 acres)

B4-139 Cubic Yards fill
within 2 foot OHM (.006 acres)

WL01-Scrub-Shrub Wetland

B3-26.2 Cubic Yards fill
within 2 foot OHM (.003 acres)

B7-20.7 Cubic Yards fill
within 2 foot OHM (.003 acres)

B2-51.8 Cubic Yards fill
within 2 foot OHM (.004 acres)

WL02-Forested Wetland

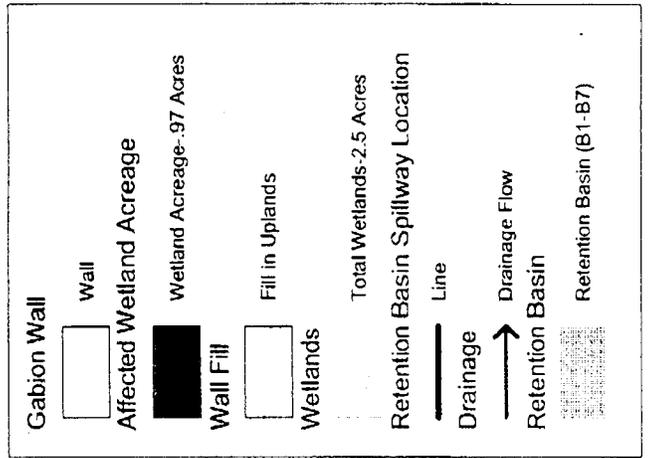
B6-66.4 Cubic Yards fill
within 2 foot OHM (.005 acres)

Rock Lined Channel

Gabion Wall

B1-36.7 Cubic Yards fill
within 2 foot OHM (.004 acres)

WL03-Forested Wetland



Reference: 200306886



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: December 16, 2003

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. 200300886 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