



US Army Corps  
of Engineers  
Seattle District



**US Army Corps of Engineers**  
Regulatory Branch  
Post Office Box 3755  
Seattle, WA 98124-3755  
Telephone (206) 764-6906  
Attn: Jim Green, Project Manager

**WA Department of Ecology**  
SEA Program  
Post Office Box 47600  
Olympia, WA 98504-7600  
Telephone (360) 407-6068  
Attn: SEA Program, Federal Permit  
Coordinator

**Public Notice Date:** 2 December 2008  
**Expiration Date:** 2 January 2008

**Reference No.:** NWS-2008-670-SO  
**Name:** Grays Harbor Public  
Development Authority

---

Interested parties are hereby notified that the U.S. Army Corps of Engineers (Corps) and the Washington Department of Ecology (Ecology) have received an application to perform work in waters of the United States as described below and shown on the enclosed drawings.

The Corps will review the work in accordance with Section 404 of the Clean Water Act (CWA) and Section 10 of the Rivers and Harbors Act. Ecology will review the work pursuant to Section 401 of the CWA, with applicable provisions of State water pollution control laws and the Coastal Zone Management Act.

**APPLICANT:** Grays Harbor Public Development Authority  
50 Enterprise Lane, Suite 101  
Elma, Washington 98541  
Telephone: (360) 482-1600

**AGENT:** Pacific International Engineering  
501 Columbia Street Northwest, Suite D  
Olympia, Washington 98501  
ATTN: Mr. Michael Daniels  
Telephone: (360) 352-2232

**LOCATION:** In the Chehalis River near Satsop, Grays Harbor County, Washington.

**WORK:** The proposed work consists of maintenance dredging of up to 7,000 cubic yards of sediment and the removal of large woody debris from the Chehalis River, and the placement of up to 650 cubic yards of riprap along the shoreline. Dredging will be accomplished using a clamshell bucket on land-based equipment. All dredged material will be hauled in water-tight trucks for disposal and dewatering at the upland disposal site (see sheet 1 of attached drawings). The large woody debris will be removed using barge mounted equipment.

**PURPOSE:** The purpose of the work is to maintain and restore an existing barge loading facility, improve navigation, and bank stabilization.

DREDGE DISPOSAL ANALYSIS:

Dredged Material Testing: The proposed dredged material has been tested according to the Dredged Material Management Program's "Dredged Material Evaluation and Procedures Users Manual" dated July, 2008. These evaluation procedures were compiled by the regulatory agencies, which have jurisdiction over dredged material disposal in open-water sites associated with Grays Harbor and Willapa Bay. Dredged material evaluations may include both chemical and biological testing. For this project, the regulatory agencies determined that all 7,000 cubic yards were suitable for disposal at an upland disposal site. The sediment testing data are available at the U.S. Army Corps of Engineers, Seattle District, Dredge Material Management Office.

ENDANGERED SPECIES: The Endangered Species Act (ESA) requires federal agencies to consult with the National Marine Fisheries Service (NMFS) and/or U.S. Fish and Wildlife Service (USFWS) pursuant to Section 7 of ESA on all actions that may affect a species listed (or proposed for listing) under the ESA as threatened or endangered or any designated critical habitat. After receipt of comments from this public notice, the U.S. Army Corps of Engineers will evaluate the potential impacts to proposed and/or listed species and their designated critical habitat.

ESSENTIAL FISH HABITAT: The Magnuson-Stevens Fishery Conservation and Management Act, 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). The proposed action would impact EFH in the project area. The U.S. Army Corps of Engineers (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 District Engineer has reviewed the latest published version of the National Register of Historic Places, lists of properties determined eligible and other sources of information. There are no recorded historic properties within the permit area. The permit area has been so extensively modified by modern development that little likelihood exists for the proposed project to impinge upon an undisturbed historic property. The District Engineer invites responses to this public notice from Native American Nations or tribal governments; Federal, State, and local agencies; historical and archeological societies; and other parties likely to have knowledge of or concerns with historic properties in the area. This public notice initiates consultation under Section 106 of the National Historic Preservation Act with any Tribe that has information or concerns with historic properties in the proposed permit area.

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 – CORPS - The decision whether to issue a permit will be based on an evaluation of the probable impacts, 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 Corps is soliciting comments from the public; Native American Nations or tribal governments; Federal, 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 described discharge will be evaluated for compliance with guidelines promulgated by the Environmental Protection Agency under authority of Section 404(b)(1) of the CWA. These guidelines require an alternatives analysis for any proposed discharge of dredged or fill material into waters of the United States.

**EVALUATION—ECOLOGY:** Ecology 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. Ecology will be considering all comments to determine whether to certify or deny certification for the proposed project.

**ADDITIONAL EVALUATION:** This proposal is the subject of Shorelines Substantial Development Permit No. 2007-2182 which has been issued by Grays Harbor County on January 8, 2008.

**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. Either 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.

**Corps Comments:** All e-mail comments should be sent to [james.d.geen@usace.army.mil](mailto:james.d.geen@usace.army.mil). Conventional mail comments should be sent to U.S. Army Corps of Engineers, Regulatory Branch, Attn: Jim Green, Post Office Box 3755, Seattle, Washington, 98124-3755.

**Ecology Comments:** Any person desiring to present views on the project pertaining to a request for Coastal Zone Management consistency concurrence, may do so by submitting written comments to the following address: Department of Ecology, Attn: SEA program – Federal Permit Coordinator, P.O. Box 47600, Olympia, Washington, 98504-7600, or e-mail to [ecyrefedpermits@ecy.wa.gov](mailto:ecyrefedpermits@ecy.wa.gov)

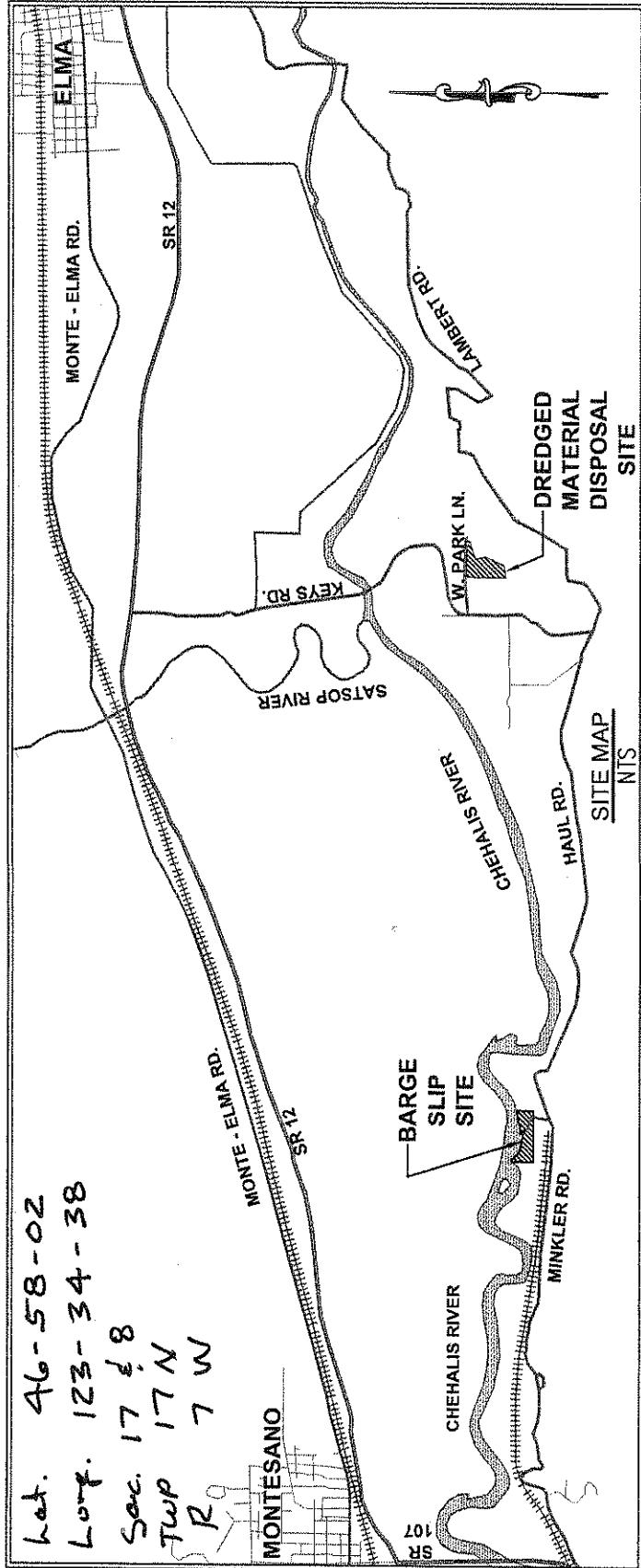
To ensure proper consideration of all comments, responders must include the following name and reference number in the text of their comments: Grays Harbor Public Development Authority – File No. NWS-2008-670-SO

Encl: Figures (5)

SECTION 07, TOWNSHIP 17 NORTH, RANGE 06 WEST WILLAMETTE MERIDIAN

# GRAYS HARBOR PDA - SATSOP SAT SOP, WASHINGTON

GRAYS HARBOR PUBLIC DEVELOPMENT AUTHORITY  
50 ENTERPRISE LANE, SUITE 101  
ELMA, WA 98541  
(360)482-1602



## APPLICANT INFORMATION:

Owner/Applicant:  
Grays Harbor Public Development Authority  
Contact: Joel Ross  
50 Enterprise Lane, Suite 101  
Elma, WA 98541  
(360)482-1602

Engineer:  
Jeff Johnstone, P.E.  
Pacific International Engineering  
501 Columbia St., Suite D  
Olympia, WA 98501  
(360) 352-2232  
(360) 352-5525 FAX

PROJECT INFORMATION:  
TAX PARCEL #:

Lat. 46-58-02  
Long. 123-34-38  
Sec. 17 1/8  
Twp 17 N  
R 7 W

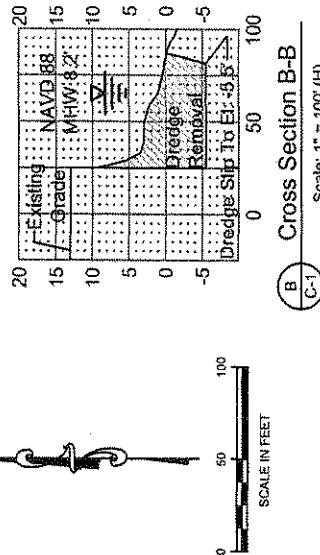
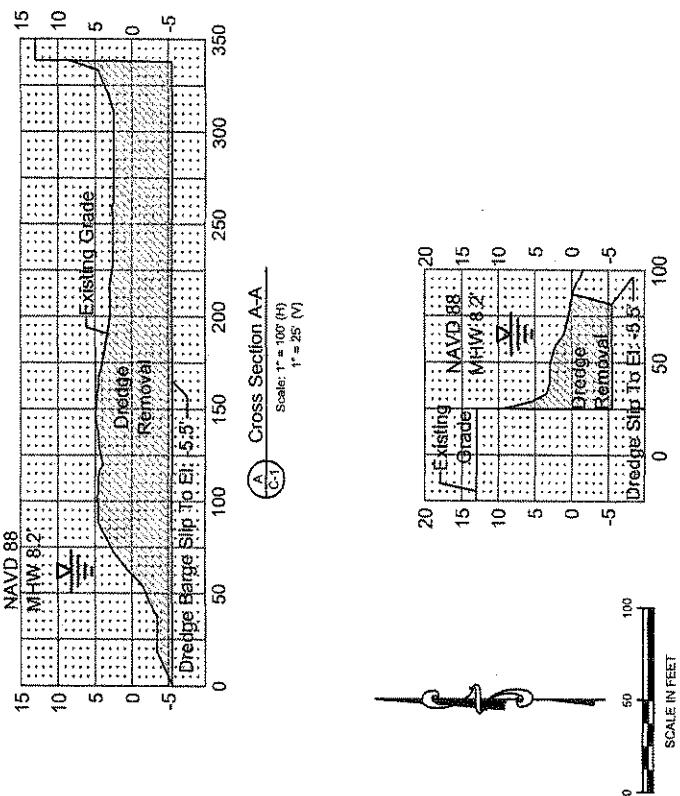
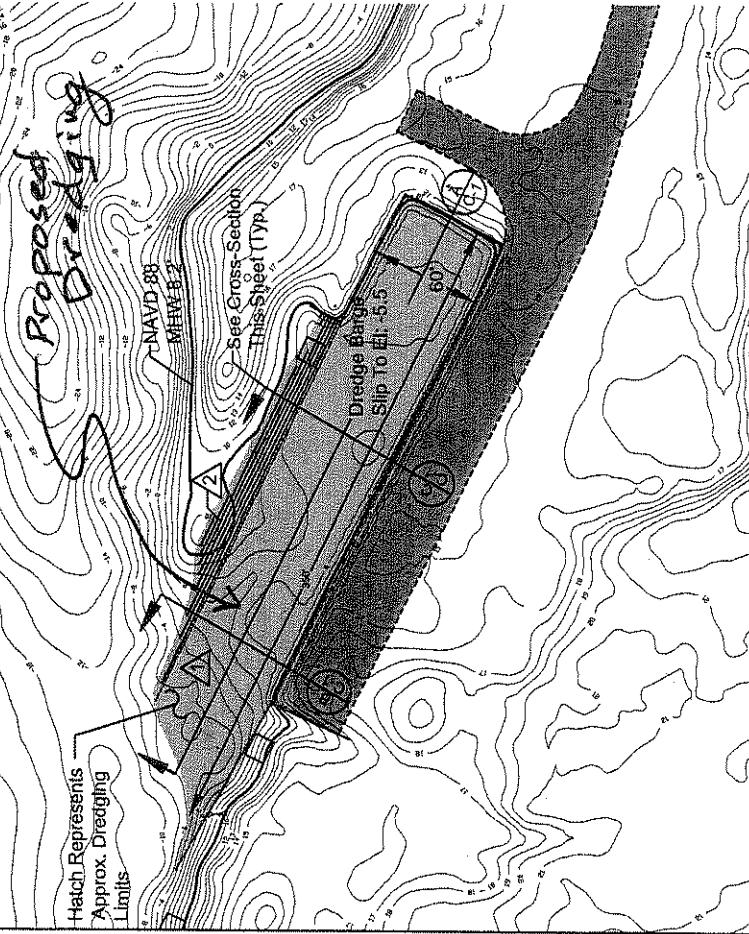
Proposed Maintenance Dredging w/upland disposal  
Debris Removal and Placement of 650 cu.yd.  
of riprap for bank stabilization  
In: Chehalis River  
Near: Satop, Grays Harbor Co., WA.

GRAYS HARBOR PDA - SATSOP  
BARGE UNLOADING FACILITY MAINTENANCE PROJECT  
SAT SOP, WA

COVER SHEET

Sheet 1 of 5 6/12/08

**Approximate Spoil Area Quantities:  
Dredging : 7,000 c.y.**



**Dredging Note:**  
Sediment shall be removed from the barge unloading facility and its entrance to the Chehalis River by a crane operated clamshell bucket positioned either on a barge or on the adjacent barge slip landing. Excavated material shall be placed in water tight trucks for transport to the spoil dewatering site.

**GENERAL NOTES:**

1. See General Notes Site Plan Sheet.

**CONSTRUCTION NOTES:**

- △ Contractor to construct a temporary sediment barrier (silt curtain or WDFW approved equal) prior to dredging activities. Sediment barrier shall be of such construction to ensure that downstream water quality will not be degraded by the dredging activities. Contractor to provide PDA with a sediment barrier plan for approval prior to commencing work.

- △ Re-grade bank as necessary for dredging process. Cut at 1(H) : 1(V) Max.

*Mus-Z2008-670-50*

GRAYS HARBOR PDA - SATSOP

BARGE UNLOADING FACILITY MAINTENANCE PROJECT

SATSOP, WA

DREDGING PLAN  
AND CROSS-SECTIONS

Scale: 1" = 100' (H)  
1" = 25' (V)

C Cross Section C-C

C-1

Existing Grade NAVD 88  
Dredge Removal

Dredge Slip To El -3.5

NAVD 88  
MHN B2

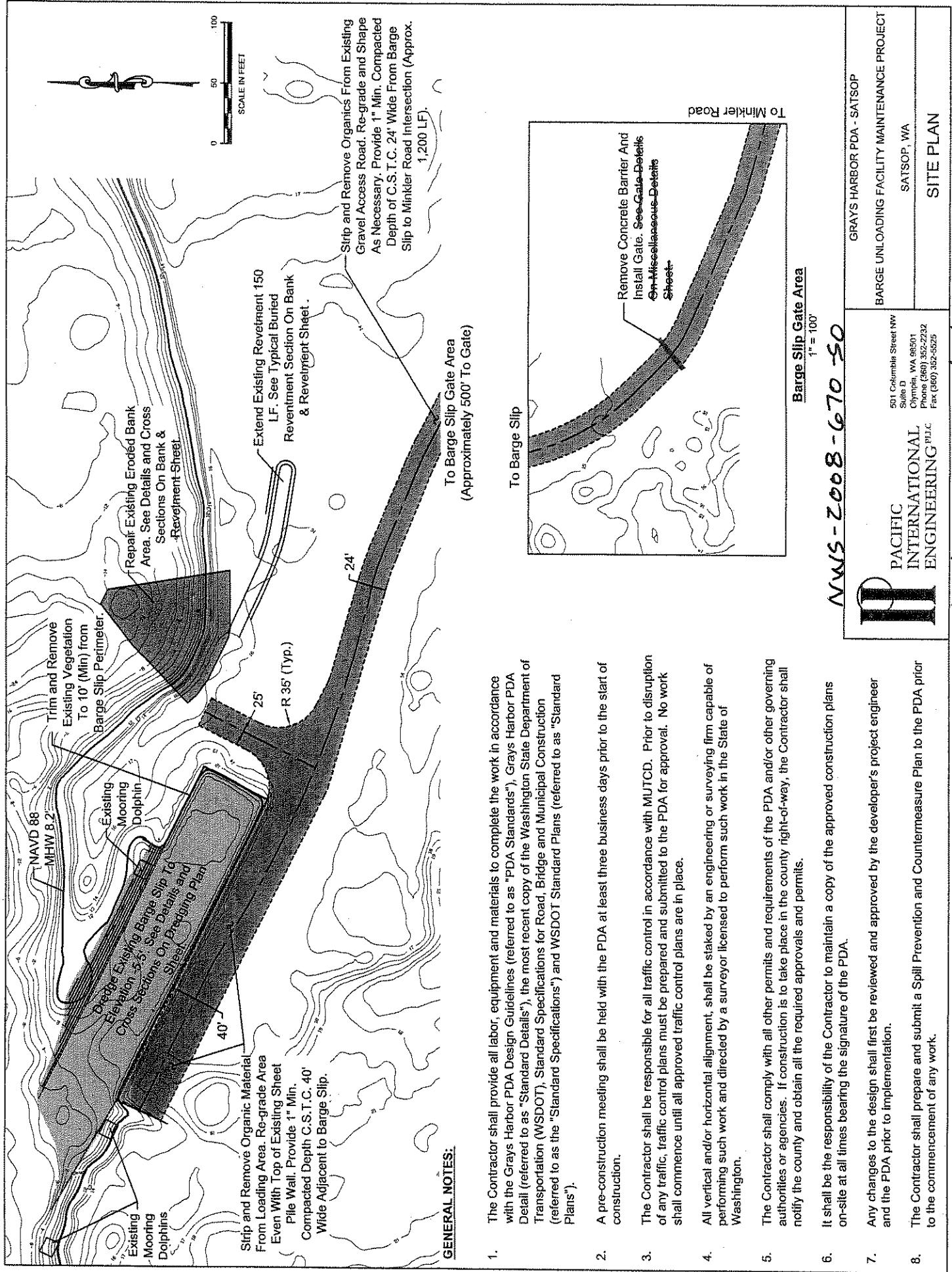
15  
10  
5  
0  
-5  
0 50 100

SCALE IN FEET

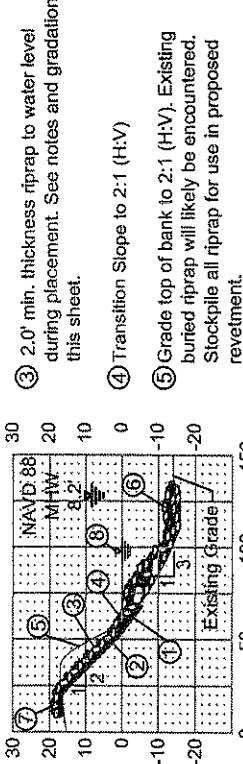
*Sheet 2 of 5 6/12/08*



501 Columbia Street NW  
Suite D  
Olympia, WA 98501  
Phone (360) 352-2232  
Fax (360) 352-5525



- Notes:
- ① 1' min. thickness quarry spell base to El: -6.0
  - ② Geotextile fabric to El: -6.0. See notes this sheet.



Extend Revetment 150 LF. See Typical Buried Revetment Section This Sheet.

#### GENERAL NOTES:

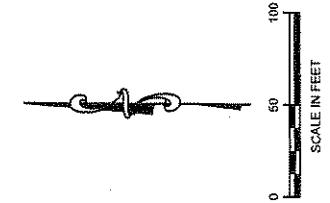
#### GEOTEXTILE FABRIC NOTES:

1. See General Notes Site Plan Sheet.
2. Fabric to be Maraffi 140N or approved equal.
3. Seams shall run down slope, overlap a minimum of 2' and be in the direction of water flow.
4. Riprap should be placed within 5 days of placing fabric.
5. Riprap should be placed with no free fall to protect fabric.
6. Slopes should not be graded after riprap placement.

#### RIPRAP NOTES:

1. Riprap shall be sound, unweathered, angular rock with the longest dimension not exceeding three times the smallest dimension.
2. Riprap gradation shall be Class II. See gradation table this sheet.
3. Riprap shall be carefully placed by machine to result in minimum openings between the stones.
4. Riprap placement for the bank repair shall be done at the lowest available tides.

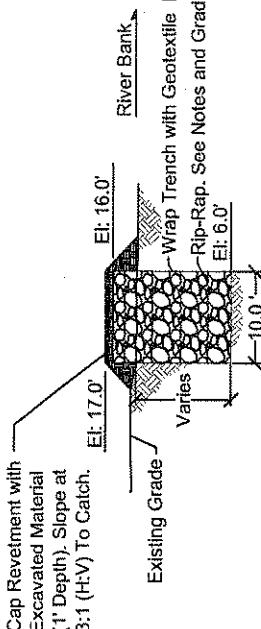
Class	I	II	III
Riprap thickness	12"	18"	24"
Tolerance	+4"	+6"	+8"
Rock size range	25-150#	25-500#	25-800#
75% Larger than	50#	150#	200#
50% Larger than	60#	200#	300#
30% Larger than	75#	250#	400#
10% Larger than	25#	25#	25#
Range - f.p.s.	6-10	10-14	14-16



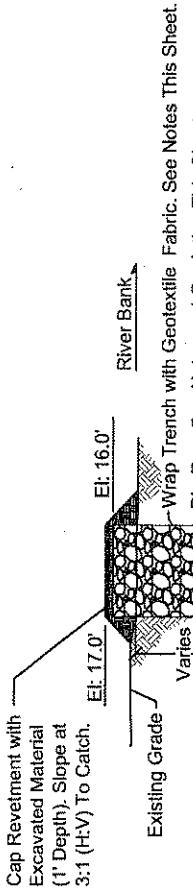
Typical Bank Repair Section

Scale: 1" = 100' (H)  
1" = 25' (V)

- (1) 1' min. thickness riprap to water level
- (2) Geotextile fabric to El: -6.0. See notes this sheet.
- (3) 2.0' min. thickness riprap to water level during placement. See notes and gradation this sheet.
- (4) Transition Slope to 2:1 (H:V)
- (5) Grade top of bank to 2:1 (H:V). Existing buried riprap will likely be encountered. Stockpile all riprap for use in proposed revetment.
- (6) 3.0' min. thickness riprap below water level during placement. See notes and gradation this sheet.
- (7) Extend armoring a minimum of 10' from top of slope.
- (8) Water level during riprap placement.



Typical Buried Revetment Section  
N.T.S.



#### QUANTITIES:

Riprap - Bank Repair:	650 CY
Riprap - Buried Revetment:	1,000 CY
<b>Total</b>	<b>1,650 CY</b>
GRAYS HARBOR PDA - SATSOP	BARGE UNLOADING FACILITY MAINTENANCE PROJECT
SATSOP, WA	SATSOP, WA
PACIFIC INTERNATIONAL ENGINEERING PLC	BANK & REVETMENT AREA
	DETAILS AND CROSS-SECTION

Sheet 4 of 5 6/12/08

