



US Army Corps  
of Engineers  
Seattle District



# Joint Public Notice

## Application for a Department of the Army Permit and a Washington Department of Ecology Water Quality Certification and/or Coastal Zone Management Consistency Concurrence

US Army Corps of Engineers  
Regulatory Branch  
Post Office Box 3755  
Seattle, WA 98124-3755  
Telephone: (206) 764-6960  
ATTN: Ms. Olivia Romano,  
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: November 26, 2014  
Expiration Date: December 26, 2014

Reference No.: NWS-2014-0456-WRD  
Name: Tacoma, Port of

---

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 dated September 2014.

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:** Port of Tacoma  
Attention: Mr. Mark Rettmann  
P.O. Box 1837  
Tacoma, Washington 98401-1837  
Telephone: (253) 592-6716

**LOCATION:** In Blair Waterway, Pier 4 (Husky Terminal), in Tacoma, Pierce County, Washington.

**WORK:** Reconfigure and reconstruct Pier 4 to align with Pier 3 within Husky Terminal, cutback and dredge up to 500,000 cubic yards of material from the existing channel slope to realign the pier (Phase 2).

Demolition work consists of the removal 28,980 square feet of the existing Pier 4 structure and the south end of the existing Pier 3 waterward of the Mean Higher High Water (MHHW) elevation of +11.8. The work includes the removal of 277 concrete piles, 23 creosote treated timber piles, two steel fender piles, and the existing fender system. Any holes left after creosote treated timber pile removal that are outside the dredge area would be filled with up to 18 cubic yards of sand/gravel. About 74,300 square feet of the existing Pier 4 structure would remain in place.

Reconstruction of the pier would consist of the installation of about 1,000 42-inch stone columns in fourteen rows at the south end of the new pier. Up to 60 of these stone columns would be installed below the MHHW. The installation of the stone columns is necessary for ground improvements to prevent liquefaction during an

## **NWS-2014-00456-WRD, Tacoma, Port of**

earthquake. The remainder of the stone columns would be installed in uplands, with seven rows on each side of the proposed bulkhead, and prior to the cutting the new slope. The toe of the existing slope would be deepened to -61.5 feet by the dredging 500,000 cubic yards of material by bucket dredge on a floating derrick barge creating about 155,560 square feet of open water. Dredging includes a 2-foot overdredge. The new slope would be backfilled with 1-foot thick gravel filter blanket and riprap armoring to a elevation of -56 feet Mean Lower Low Water. Up to 56,000 cubic yards of riprap would be placed on the slope. During slope construction, a small scour hole in front of the cutback area would be filled to bring it level with the surrounding area in order to reduce the length of the new concrete piles. The hole would be filled with dredged cutback material with the upper most 5 feet filled with riprap, for a total of 600 cubic yards of fill.

Up to 1,450 24-inch-diameter precast pre-stressed concrete piles would be installed below the MHHW line to support the new 236,000-square-foot cast-in-place and recast concrete deck. The support piles would be impact-driven. A 1,325 foot long sheet pile bulkhead would be installed at the MHHW line. Three existing stormwater outfalls would be replaced and relocated below the MHHW. Temporary cofferdams would be installed so the outfall work would be done in the dry. The outfalls would consist of pipes encased in concrete collars through the new slope. The installation of 236,000-square-foot cast-in-place and precast concrete deck, installation of new crane rails, new cargo cranes, new bollards, utility vaults and lines to serve the cargo cranes and vessels, and a panelized fender system.

Work outside the Corps jurisdiction include upland work consisting of the demolition and replacement of existing marine operations building, an existing electrical substation, high mast lights, associated utility work, and relocation of storm drainage lines.

PURPOSE: The project purpose is to allow more efficient and safe operation of the large vessels at Pier 4 and in Blair Waterway.

Dredged Material Testing: The applicant has chosen not to complete the testing before this Public Notice was published. Prior to completing our review, the proposed dredged material must be tested according to the procedures specified by the Dredged Material Management Program (DMMP). The DMMP evaluation may include both chemical and biological testing of sediments. For this project, the DMMP agencies will determine whether the dredged material is suitable for disposal at a DMMP open-water disposal site, suitable for beneficial use, or must be disposed of at an upland location. The sediment testing data will be available at the Corps, Seattle District, Dredged Material Management Office.

Disposal Site Use Conditions: The following standard site-use conditions will be specified by the Corps and the Washington Department of Natural Resources as part of the Federal/State permitting processes: (1) disposal operations must not interfere with Indian treaty fishing at the disposal site, including gill nets and other fishing gear; (2) the permittee must coordinate any nighttime disposal with the Corps, Seattle District, Regulatory Branch Project Manager; and (3) approval must be received from the District Engineer prior to conducting nighttime disposal. Other appropriate special conditions may be added as a result of comments received during the public review period for this public notice. The applicant is proposing either open water disposal or beneficial re-use at an approved aquatic mitigation site.

ADDITIONAL INFORMATION: Phase I of the proposed work includes a U.S. Environmental Protection Agency (EPA) ordered cleanup of contaminated sediment. Under Phase I, The Port of Tacoma (Port) proposed to clean up approximately 40,000 cubic yards of TBT contaminated sediments located under Pier 4. As part of Phase I, the Port would remove the majority of the Pier 4 structure (about 140, 550 square feet) and dredge up to 40,000 cubic yards of contaminated sediment and up to 10,000 cubic yards of clean sediments located along the top of the slope under Pier 4. Phase I work would be conducted under EPA oversight. No Federal, State, or local permits are required pursuant to Comprehensive Environmental Response, Compensation, and Liability Act of 1980.

## **NWS-2014-00456-WRD, Tacoma, Port of**

Following the completion of Phase I, the cleanup action, Phase 2 the Pier 4 reconfiguration project would be conducted as described above.

Copies of this public notice which have been mailed or otherwise physically distributed feature project drawings in black and white. The electronic version features those drawings in color, which we think more accurately communicates the scope of project impacts. To access the electronic version of this public notice, go to the Seattle District's web page at <http://www.nws.usace.army.mil/> and under the heading Open Public Comment Periods select Regulatory Public Notices. Recently-issued public notices are listed in chronological order of the date of issuance. Select and view the listing for this project.

**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 pursuant to Section 7 of the 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. If the Corps determines that the proposed action may adversely affect EFH for federally managed fisheries in Washington waters, the Corps will initiate EFH consultation with the NMFS. The Corps' final determination relative to project impacts and the need for mitigation measures is subject to review by and coordination with the NMFS.

**CULTURAL RESOURCES:** The Corps 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 disturbed by modern development that little likelihood exists for the proposed project to impinge upon an undisturbed historic property. The Corps invites responses to this public notice from Native American Tribes or tribal governments; Federal, State, and local agencies; historical and archeological societies; and other parties likely to have knowledge of or concerns regarding historic properties and sites of religious and cultural significance at or near the project area. After receipt of comments from this public notice, the Corps will evaluate potential impacts and consult with the State Historic Preservation Officer and Native American Tribes in accordance with Section 106 of the National Historic Preservation Act, 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 – 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.

## **NWS-2014-00456-WRD, Tacoma, Port of**

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.

SOURCE OF FILL MATERIAL: The applicant has not yet identified the source of the fill material. Should a permit be issued, the Corps will evaluate the fill material source prior to the start of construction.

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 Number 4000022311, being processed by City of Tacoma.

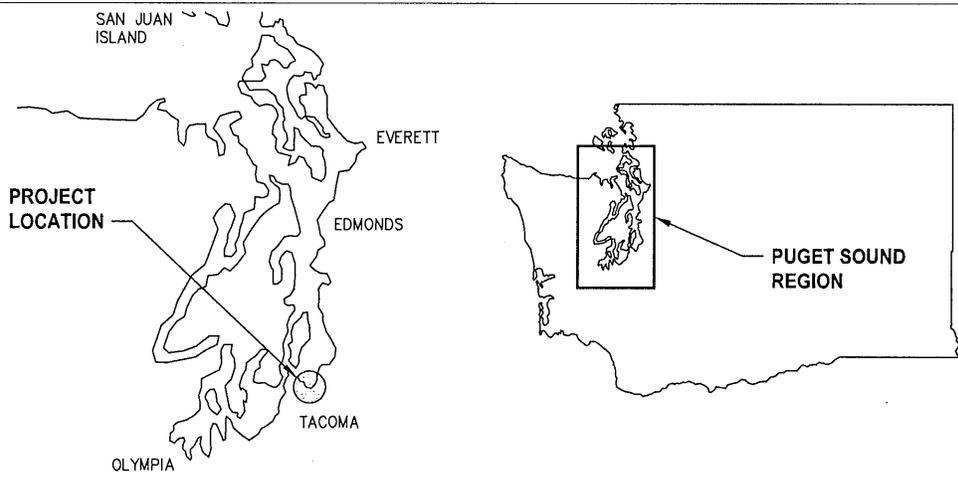
COMMENT AND REVIEW PERIOD: Conventional mail or e-mail comments on this public notice will be accepted and made part of the record and will be considered in determining whether it would be in the public interest to authorize this proposal. In order to be accepted, e-mail comments must originate from 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 commentator'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 [olivia.h.romano@usace.army.mil](mailto:olivia.h.romano@usace.army.mil). Conventional mail comments should be sent to: U.S. Army Corps of Engineers, Regulatory Branch, Attention: Ms. Olivia Romano, P.O. Box 3755, Seattle, Washington 98124-3755. All comments received will become part of the administrative record and are subject to public release under the Freedom of Information Act including any personally identifiable information such as names, phone numbers, and addresses.

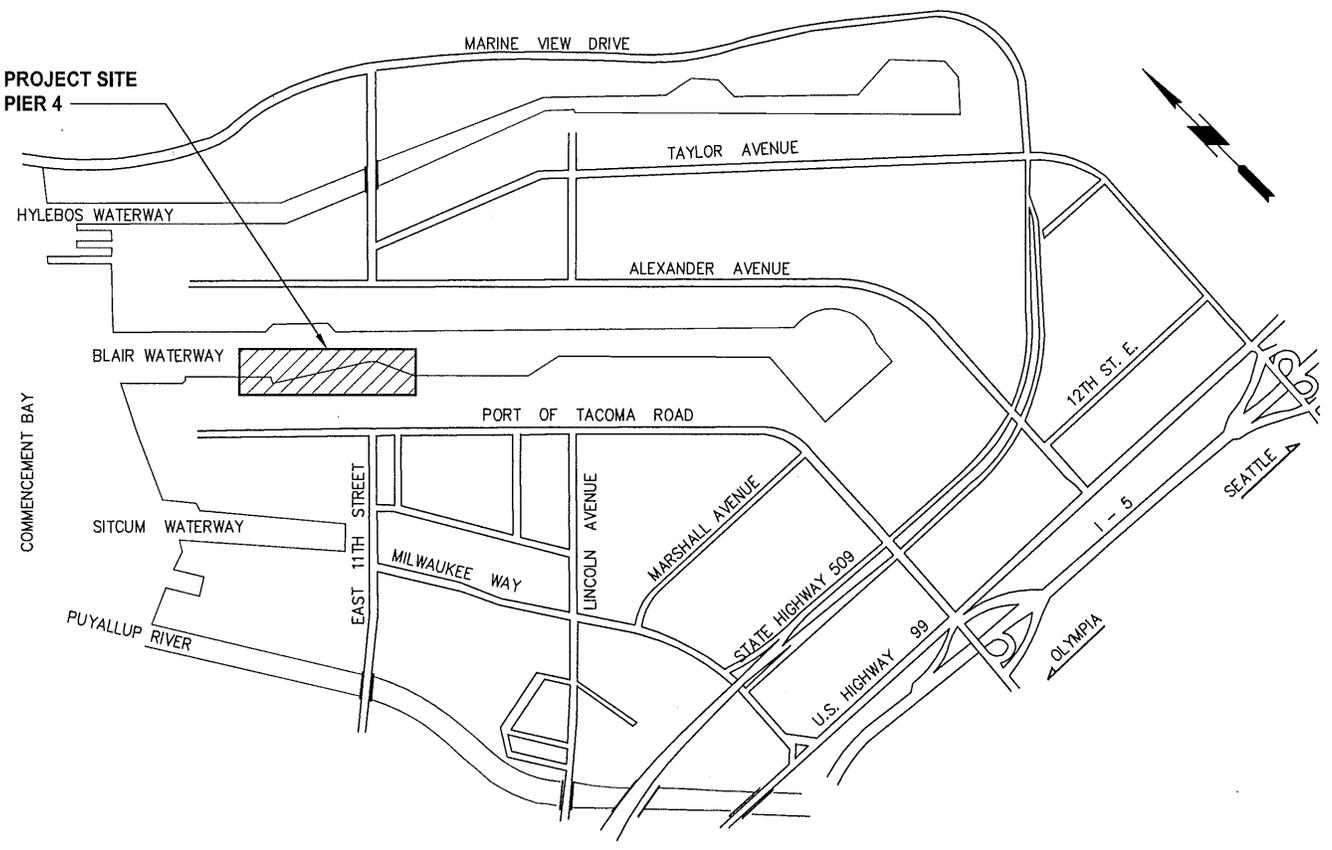
ECOLOGY COMMENTS: Any person desiring to present views on the project pertaining to a request for water quality certification under Section 401 of the CWA and/or Coastal Zone Management consistency concurrence, may do so by submitting written comments to the following address: Washington State Department of Ecology, Attention: 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: Tacoma, Port of; NWS-2014-00456-WRD

Encl: Figures 9



PUGET SOUND REGION MAP



VICINITY MAP

NO SCALE

PORT OF TACOMA

PURPOSE: RECONFIGURE PIER 4 TO ALIGN WITH PIER 3 TO MAINTAIN TERMINAL COMPETITIVENESS AND TO WIDEN THE WATERWAY.

DATUM: VERTICAL PORT DATUM  
PROJECT SPECIFIC OHWM = +12.78'  
MLLW = 0.00'

ADJACENT PROPERTY OWNERS:  
PORT OF TACOMA, DNR/WASHINGTON STATE,  
TACOMA INDUSTRIAL PROPERTIES

**FIGURE 1 - VICINITY MAP**  
**NWS-2014-00456-WRD**



P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

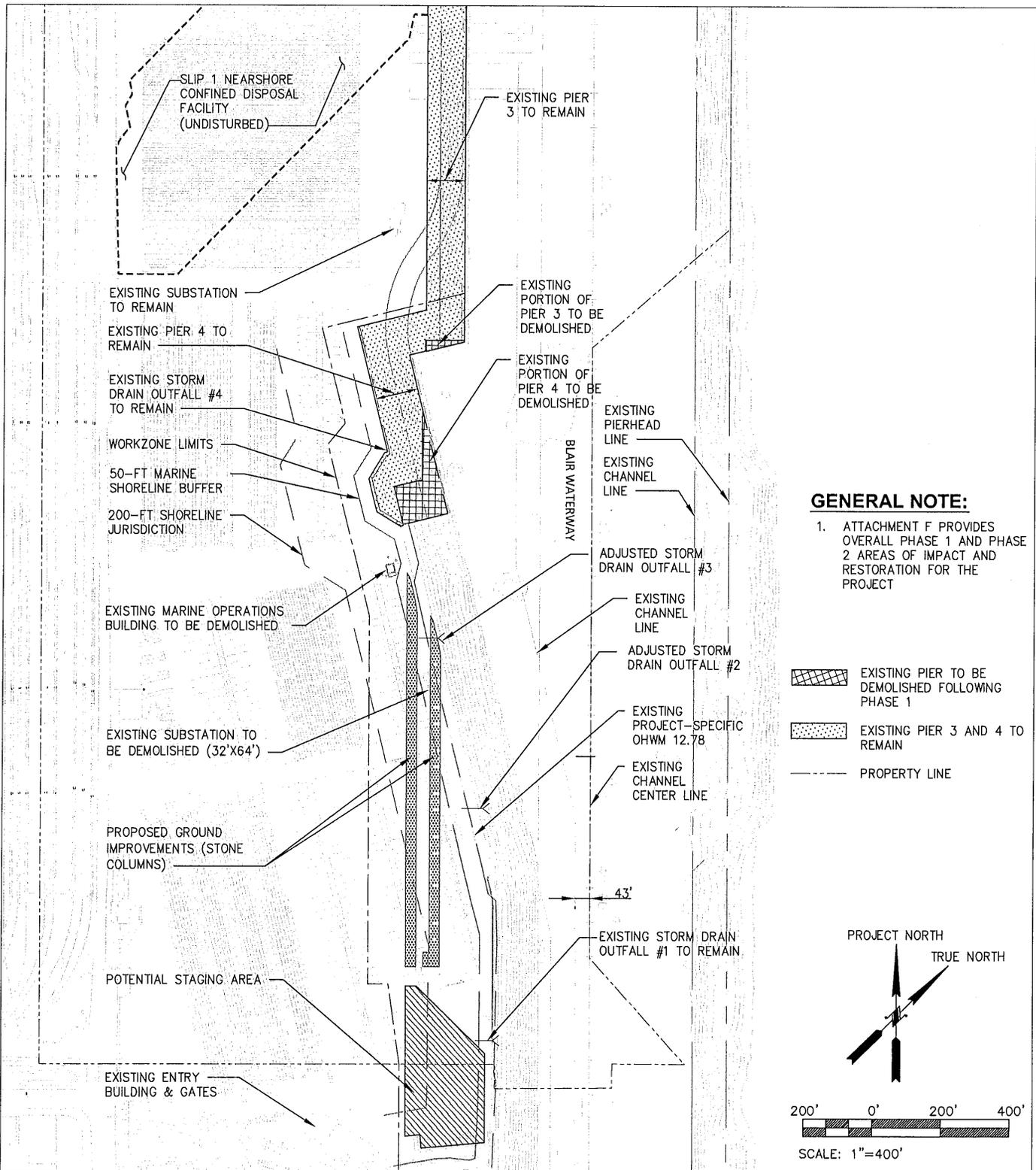
PROJECT: PIER 4 PHASE 2 RECONFIGURATION  
ADDRESS: 1101 PORT OF TACOMA ROAD  
TACOMA, WA 98421

PARCEL#: 2275200610  
LAT/LONG: 47.273069N 122.408736W  
SECT/TOWN/RANGE: SEC27 T21N R3E  
IN: BLAIR WATERWAY  
COUNTY OF: PIERCE  
STATE OF: WA

APPLICATION BY: PORT OF TACOMA  
REFERENCE #: NWS-2014-456-WRD  
SHEET 1 OF 9

SEPTEMBER 2014

Plotted: Sep 17, 2014 - 1:26pm wsl:lan Layout: Jarp0-1  
I:\2014\114096 POT Pier 4 Reconfiguration\Drawings\Exhibits\2014-08-22 JARPA Figures\NEW JARPA-1.dwg



**PURPOSE:** RECONFIGURE PIER 4 TO ALIGN WITH PIER 3 TO MAINTAIN TERMINAL COMPETITIVENESS AND TO WIDEN THE WATERWAY.

**DATUM:** VERTICAL PORT DATUM  
PROJECT SPECIFIC OHWM = +12.78'  
MLLW = 0.00'

**ADJACENT PROPERTY OWNERS:**  
PORT OF TACOMA, DNR/WASHINGTON STATE,  
TACOMA INDUSTRIAL PROPERTIES

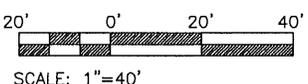
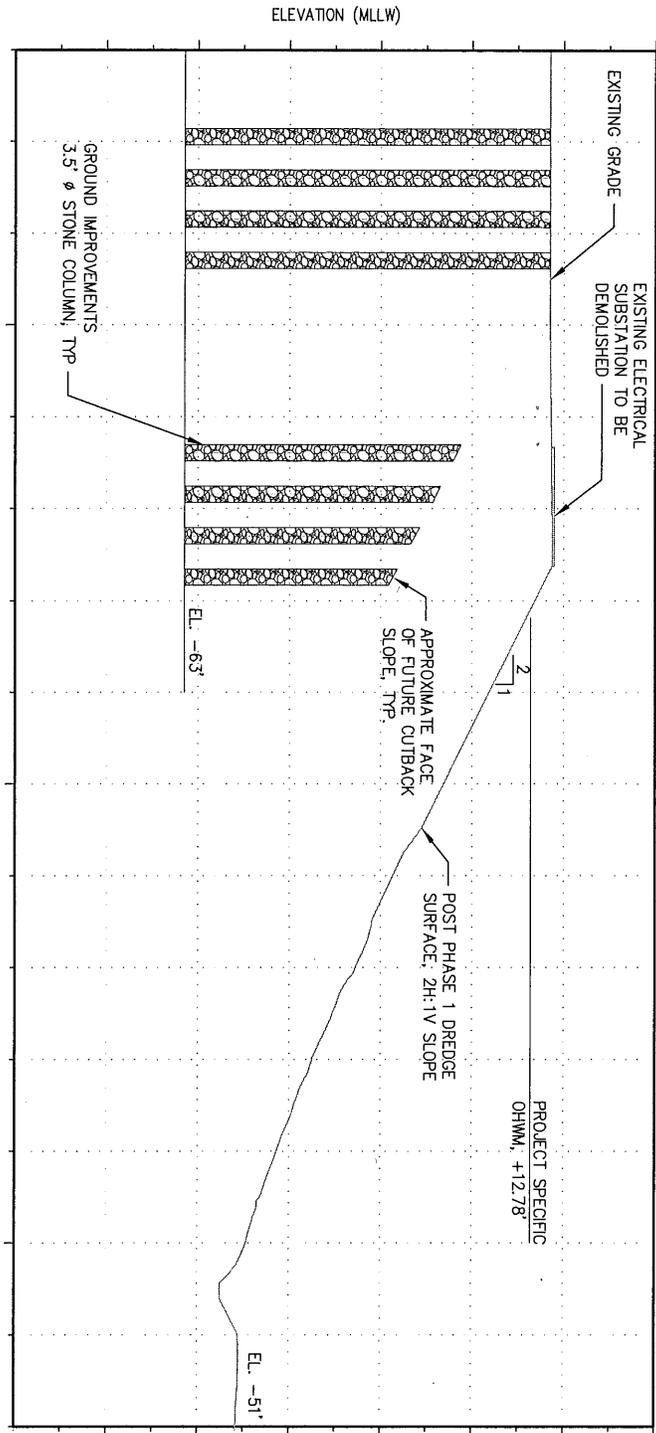
**FIGURE 2 - SITE PLAN VIEW  
PRIOR TO CUTBACK**  
NWS-2014-00456-WRD



P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

**PROJECT:** PIER 4 PHASE 2 RECONFIGURATION  
**ADDRESS:** 1101 PORT OF TACOMA ROAD  
TACOMA, WA 98421  
**PARCEL#:** 2275200610  
**LAT/LONG:** 47.273069N 122.408736W  
**SECT/TOWN/RANGE:** SEC27 T21N R3E  
**IN:** BLAIR WATERWAY  
**COUNTY OF:** PIERCE  
**STATE OF:** WA  
**APPLICATION BY:** PORT OF TACOMA  
**REFERENCE #:** NWS-2014-456-WRD  
**SHEET 2 OF 9**

SEPTEMBER 2014



PURPOSE: RECONFIGURE PIER 4 TO ALIGN WITH PIER 3 TO MAINTAIN TERMINAL COMPETITIVENESS AND TO WIDEN THE WATERWAY.

DATUM: VERTICAL PORT DATUM  
PROJECT SPECIFIC OHWM = +12.78'  
MLLW = 0.00'

ADJACENT PROPERTY OWNERS:  
PORT OF TACOMA, DNR/WASHINGTON STATE,  
TACOMA INDUSTRIAL PROPERTIES

**FIGURE 3 - TYPICAL SLOPE AND WORK ELEMENTS PRIOR TO CUTBACK**

NWS-2014-0456-WRD

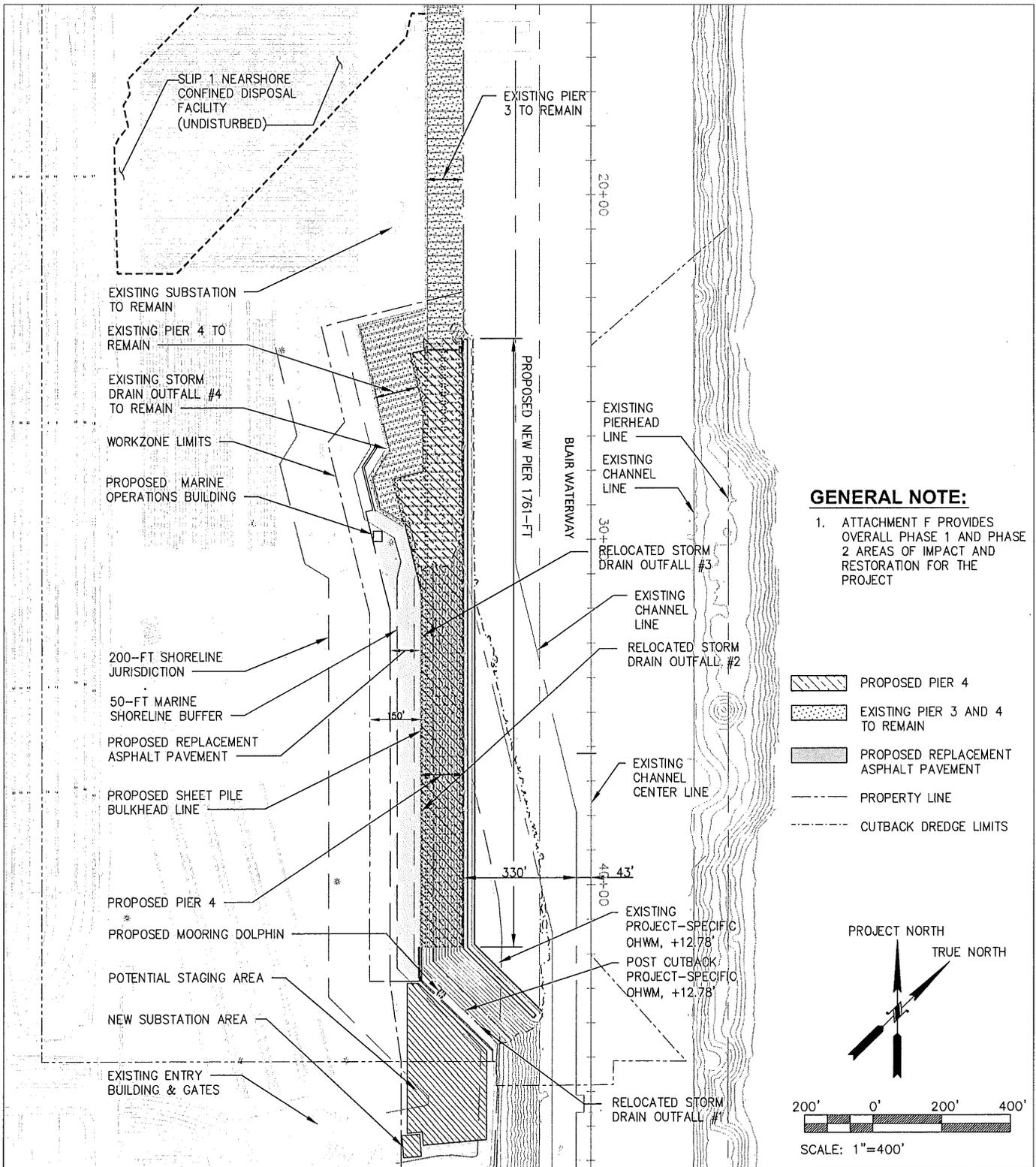
**Port of Tacoma**

P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

PROJECT: PIER 4 PHASE 2 RECONFIGURATION  
ADDRESS: 1101 PORT OF TACOMA ROAD  
TACOMA, WA 98421  
PARCEL#: 2275200610  
LAT/LONG: 47.273069N 122.408736W  
SECT/TOWN/RANGE: SEC27 T21N R3E  
IN: BLAIR WATERWAY  
COUNTY OF: PIERCE  
STATE OF: WA  
APPLICATION BY: PORT OF TACOMA  
REFERENCE #: NWS-2014-456-WRD  
SHEET 3 OF 9

SEPTEMBER 2014

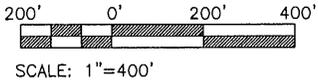
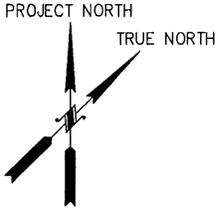
Plotted: Sep 17, 2014 - 1:26pm anilnlan Layout: JARPA 3  
M:\2014\114066 POT Pier 4 Reconfiguration\Drawings\Exhibits\2014-08-22 JARPA Figures\NEW JARPA-3.dwg



**GENERAL NOTE:**

- ATTACHMENT F PROVIDES OVERALL PHASE 1 AND PHASE 2 AREAS OF IMPACT AND RESTORATION FOR THE PROJECT

- PROPOSED PIER 4
- EXISTING PIER 3 AND 4 TO REMAIN
- PROPOSED REPLACEMENT ASPHALT PAVEMENT
- PROPERTY LINE
- CUTBACK DREDGE LIMITS



PURPOSE: RECONFIGURE PIER 4 TO ALIGN WITH PIER 3 TO MAINTAIN TERMINAL COMPETITIVENESS AND TO WIDEN THE WATERWAY.

DATUM: VERTICAL PORT DATUM  
PROJECT SPECIFIC OHWM = +12.78'  
MLLW = 0.00'

ADJACENT PROPERTY OWNERS:  
PORT OF TACOMA, DNR/WASHINGTON STATE,  
TACOMA INDUSTRIAL PROPERTIES

**FIGURE 4 - SITE PLAN VIEW  
AFTER CUTBACK  
NWS-2014-0456-WRD**

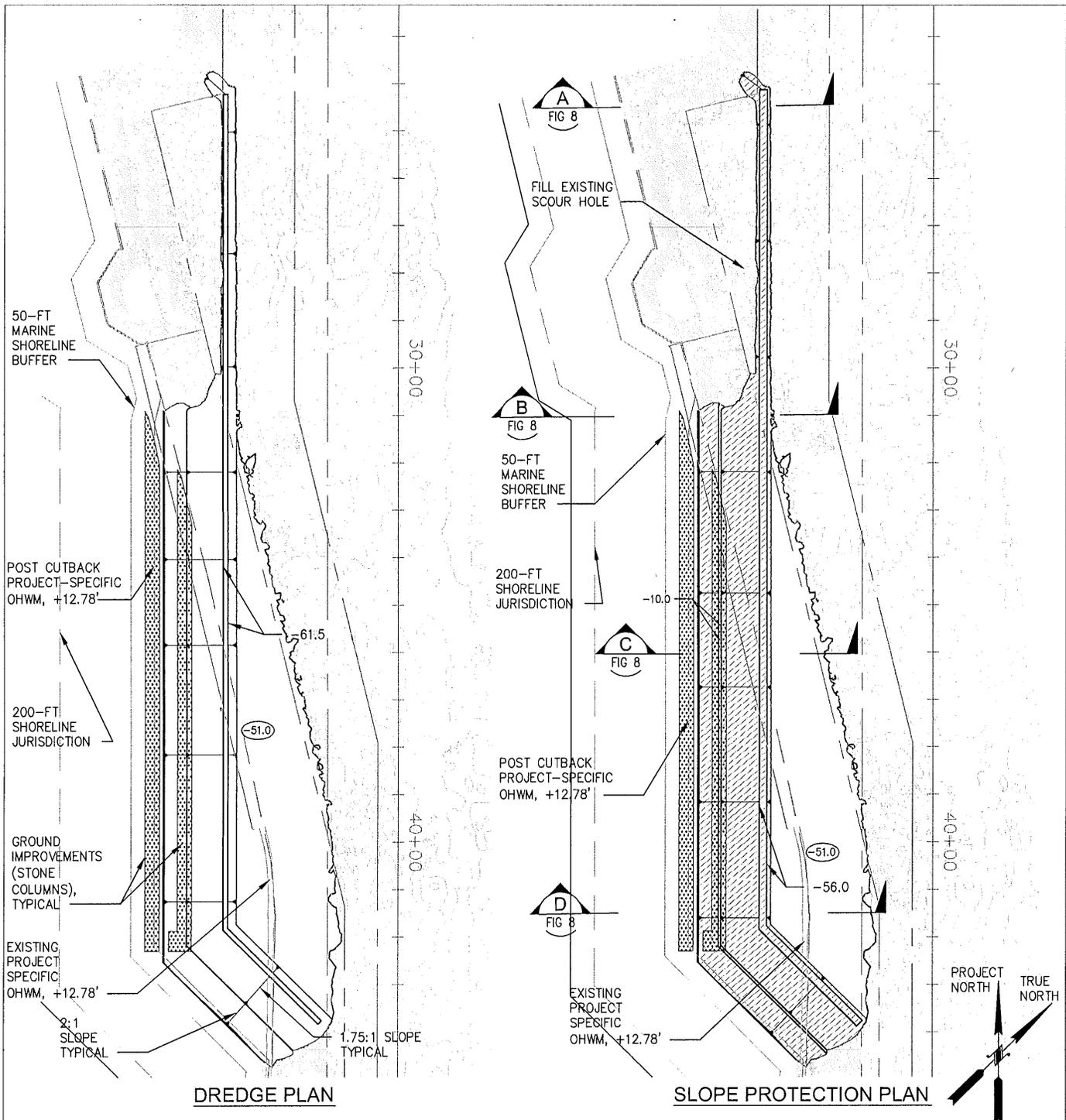


P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

PROJECT: PIER 4 PHASE 2 RECONFIGURATION  
ADDRESS: 1101 PORT OF TACOMA ROAD  
TACOMA, WA 98421  
PARCEL#: 2275200610  
LAT/LONG: 47.273069N 122.408736W  
SECT/TOWN/RANGE: SEC27 T21N R3E  
IN: BLAIR WATERWAY  
COUNTY OF: PIERCE  
STATE OF: WA  
APPLICATION BY: PORT OF TACOMA  
REFERENCE #: NWS-2014-456-WRD  
SHEET 4 OF 9

SEPTEMBER 2014

Plotted: Sep 17, 2014 - 1:28pm enlisen Layout: 011  
U:\2014\114096 POT Pier 4 Reconfiguration\Drawings\Exhibits\2014-08-22 JARPA Figures\NEW JARPA-4.dwg



**SURVEY NOTE:**

- BATHYMETRIC DATA PROVIDED FROM FEBRUARY 2012 PIER 3 AND 4 POST-DREDGE SURVEY BY ETRAC ENGINEERING AND JUNE 2010 HYDROGRAPHIC CONDITION SURVEY BY GAHAGAN & BRYANT ASSOCIATES.



SLOPE PROTECTION

LEVEL AREA ELEVATION



SCALE: 1"=300'

PURPOSE: RECONFIGURE PIER 4 TO ALIGN WITH PIER 3 TO MAINTAIN TERMINAL COMPETITIVENESS AND TO WIDEN THE WATERWAY.

DATUM: VERTICAL PORT DATUM  
PROJECT SPECIFIC OHWM = +12.78'  
MLLW = 0.00'

ADJACENT PROPERTY OWNERS:  
PORT OF TACOMA, DNR/WASHINGTON STATE,  
TACOMA INDUSTRIAL PROPERTIES

**FIGURE 5 - DREDGE AND SLOPE PROTECTION PLAN**  
NWS-2014-0456-WRD

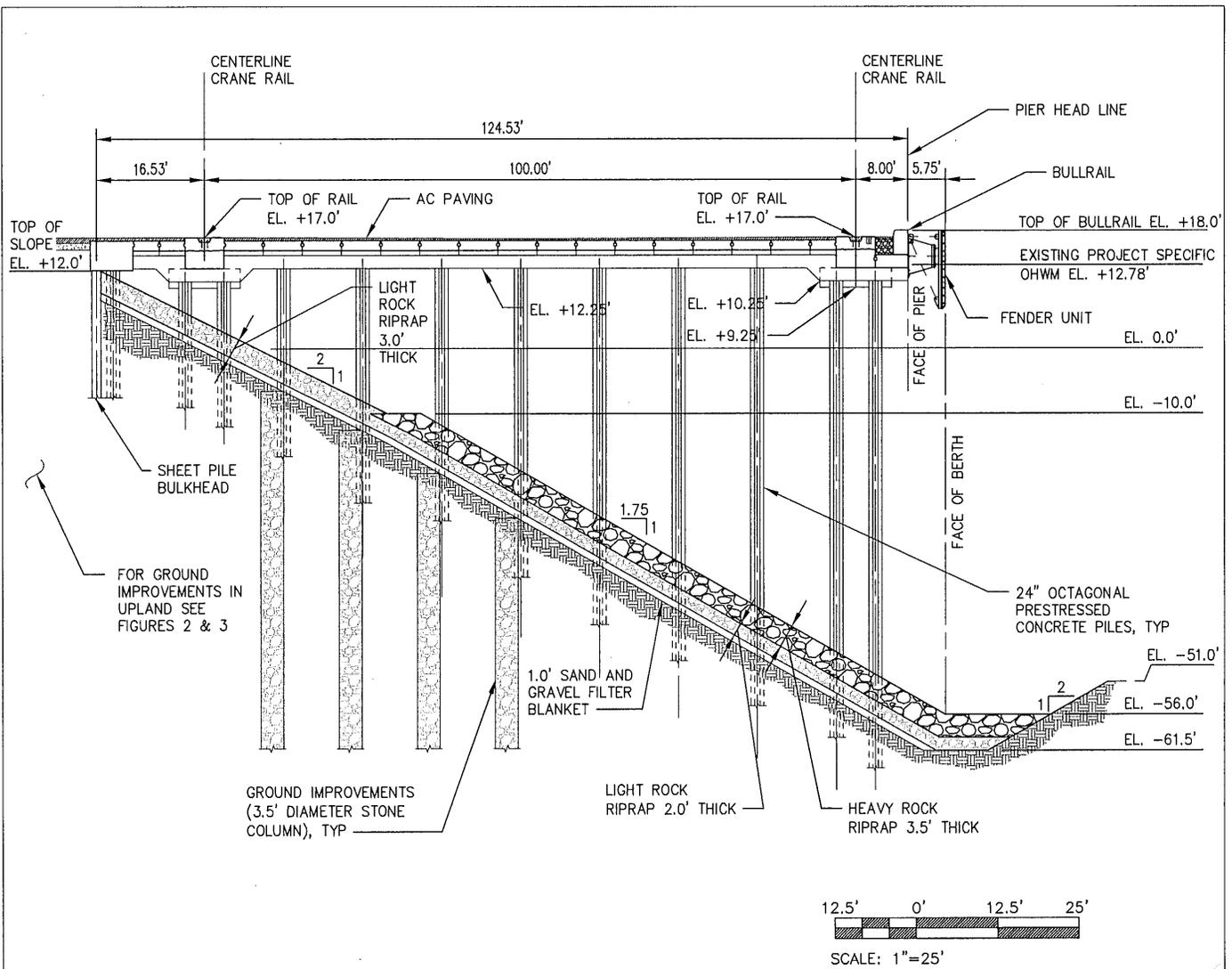


P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

PROJECT: PIER 4 PHASE 2 RECONFIGURATION  
ADDRESS: 1101 PORT OF TACOMA ROAD  
TACOMA, WA 98421

PARCEL#: 2275200610  
LAT/LONG: 47.273069N 122.408736W  
SECT/TOWN/RANGE: SEC27 T21N R3E  
IN: BLAIR WATERWAY  
COUNTY OF: PIERCE  
STATE OF: WA  
APPLICATION BY: PORT OF TACOMA  
REFERENCE #: NWS-2014-456-WRD  
SHEET 5 OF 9

SEPTEMBER 2014



PURPOSE: RECONFIGURE PIER 4 TO ALIGN WITH PIER 3 TO MAINTAIN TERMINAL COMPETITIVENESS AND TO WIDEN THE WATERWAY.

DATUM: VERTICAL PORT DATUM  
PROJECT SPECIFIC OHWM = +12.78'  
MLLW = 0.00'

ADJACENT PROPERTY OWNERS:  
PORT OF TACOMA, DNR/WASHINGTON STATE,  
TACOMA INDUSTRIAL PROPERTIES

**FIGURE 6 - TYPICAL SLOPE AND  
WORK ELEMENTS AFTER  
CUTBACK**  
NWS-2014-0456-WRD

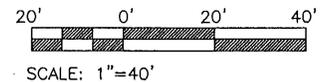
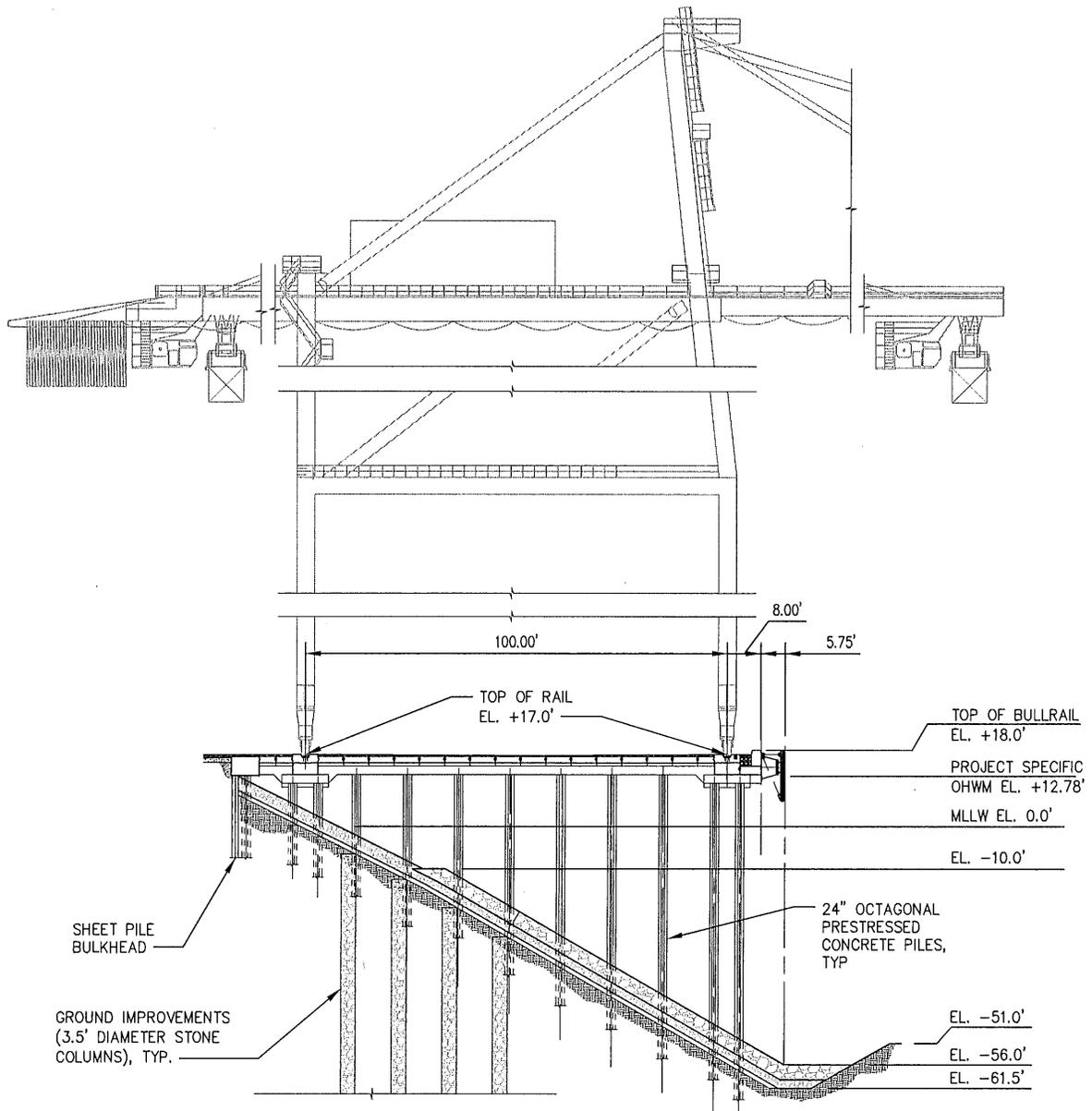


P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

PROJECT: PIER 4 PHASE 2 RECONFIGURATION  
ADDRESS: 1101 PORT OF TACOMA ROAD  
TACOMA, WA 98421

PARCEL#: 2275200610  
LAT/LONG: 47.273069N 122.408736W  
SECT/TOWN/RANGE: SEC27 T21N R3E  
IN: BLAIR WATERWAY  
COUNTY OF: PIERCE  
STATE OF: WA  
APPLICATION BY: PORT OF TACOMA  
REFERENCE #: NWS-2014-456-WRD  
SHEET 6 OF 9

SEPTEMBER 2014



PURPOSE: RECONFIGURE PIER 4 TO ALIGN WITH PIER 3 TO MAINTAIN TERMINAL COMPETITIVENESS AND TO WIDEN THE WATERWAY.

DATUM: VERTICAL PORT DATUM  
PROJECT SPECIFIC OHWM = +12.78'  
MLLW = 0.00'

ADJACENT PROPERTY OWNERS:  
PORT OF TACOMA, DNR/WASHINGTON STATE,  
TACOMA INDUSTRIAL PROPERTIES

**FIGURE 7 - 100' GAUGE PIER SECTION**  
NWS-2014-0456-WRD

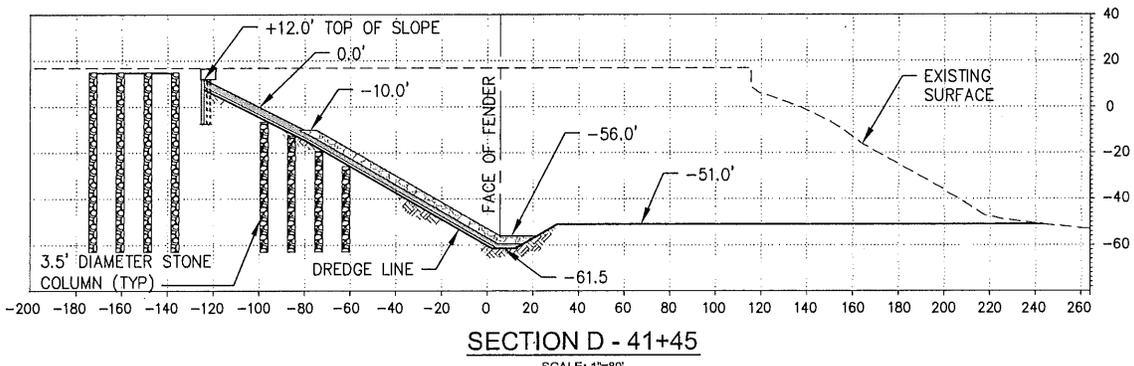
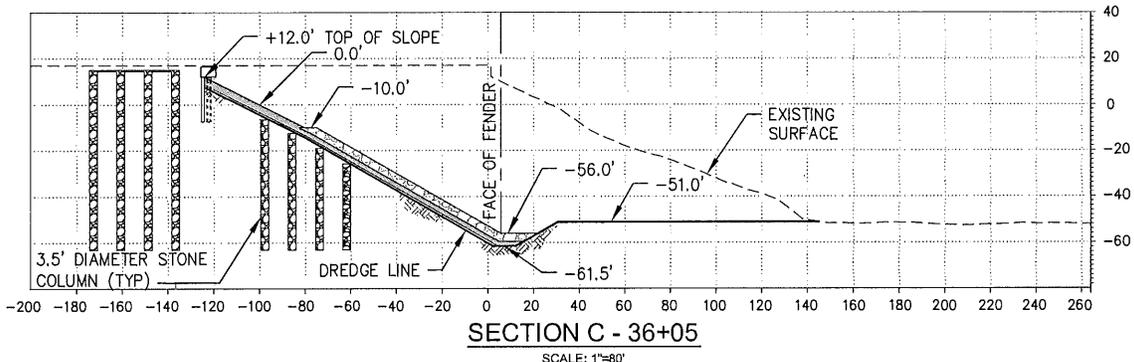
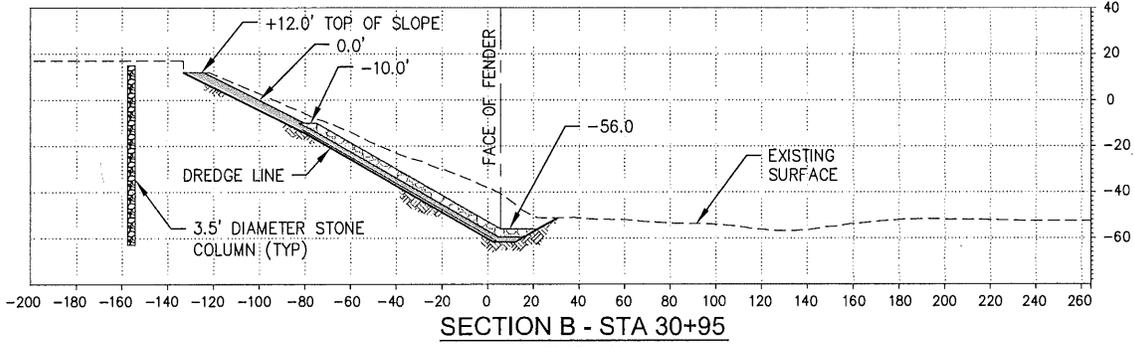
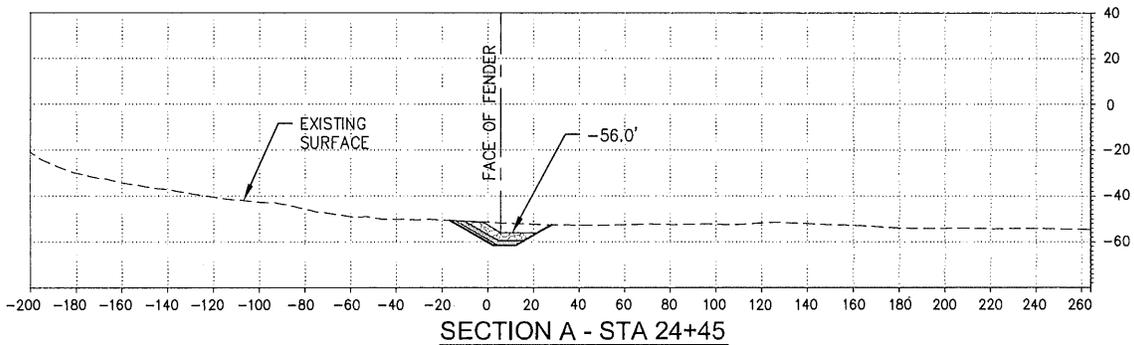


P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

PROJECT: PIER 4 PHASE 2 RECONFIGURATION  
ADDRESS: 1101 PORT OF TACOMA ROAD  
TACOMA, WA 98421

PARCEL#: 2275200610  
LAT/LONG: 47.273069N 122.408736W  
SECT/TOWN/RANGE: SEC27 T21N R3E  
IN: BLAIR WATERWAY  
COUNTY OF: PIERCE  
STATE OF: WA  
APPLICATION BY: PORT OF TACOMA  
REFERENCE #: NWS-2014-456-WRD  
SHEET 7 OF 9

SEPTEMBER 2014



**FIGURE 8 - SECTIONS  
NWS-2014-0456-WRD**



P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

PURPOSE: RECONFIGURE PIER 4 TO ALIGN WITH PIER 3 TO MAINTAIN TERMINAL COMPETITIVENESS AND TO WIDEN THE WATERWAY.

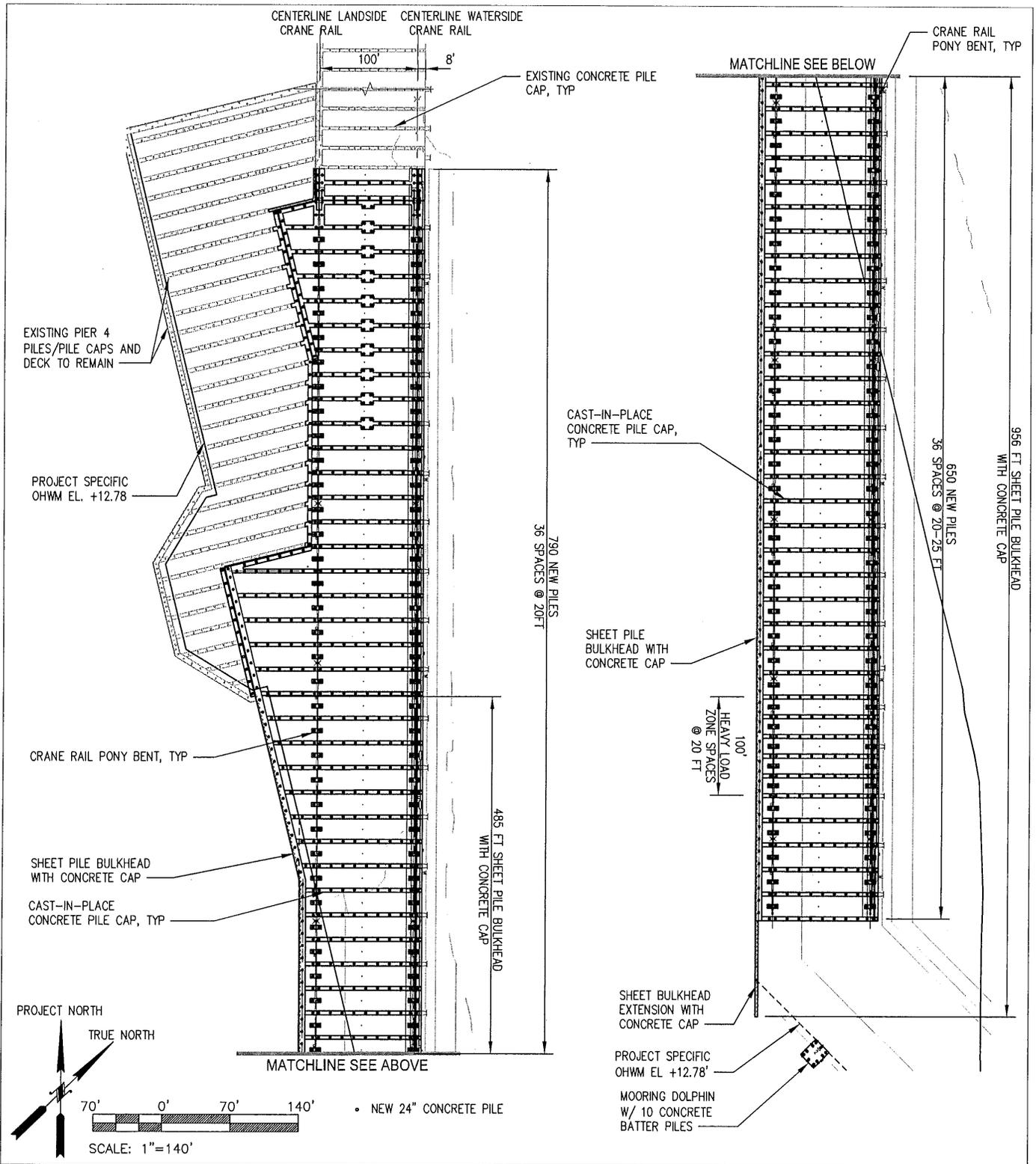
DATUM: VERTICAL PORT DATUM  
PROJECT SPECIFIC OHWM = +12.78'  
MLLW = 0.00'

ADJACENT PROPERTY OWNERS:  
PORT OF TACOMA, DNR/WASHINGTON STATE,  
TACOMA INDUSTRIAL PROPERTIES

PROJECT: PIER 4 PHASE 2 RECONFIGURATION  
ADDRESS: 1101 PORT OF TACOMA ROAD  
TACOMA, WA 98421

PARCEL#: 2275200610  
LAT/LONG: 47.273069N 122.408736W  
SECT/TOWN/RANGE: SEC27 T21N R3E  
IN: BLAIR WATERWAY  
COUNTY OF: PIERCE  
STATE OF: WA  
APPLICATION BY: PORT OF TACOMA  
REFERENCE #: NWS-2014-456-WRD  
SHEET 8 OF 9

SEPTEMBER 2014



PURPOSE: RECONFIGURE PIER 4 TO ALIGN WITH PIER 3 TO MAINTAIN TERMINAL COMPETITIVENESS AND TO WIDEN THE WATERWAY.

DATUM: VERTICAL PORT DATUM  
PROJECT SPECIFIC OHWM = +12.78'  
MLLW = 0.00'

ADJACENT PROPERTY OWNERS:  
PORT OF TACOMA, DNR/WASHINGTON STATE,  
TACOMA INDUSTRIAL PROPERTIES

**FIGURE 9 - PILE/PILE CAP PLAN**  
NWS-2014-0456-WRD



P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

PROJECT: PIER 4 PHASE 2 RECONFIGURATION  
ADDRESS: 1101 PORT OF TACOMA ROAD  
TACOMA, WA 98421

PARCEL#: 2275200610  
LAT/LONG: 47.273069N 122.408736W  
SECT/TOWN/RANGE: SEC27 T21N R3E  
IN: BLAIR WATERWAY  
COUNTY OF: PIERCE  
STATE OF: WA  
APPLICATION BY: PORT OF TACOMA  
REFERENCE #: NWS-2014-456-WRD  
SHEET 9 OF 9

SEPTEMBER 2014