US Army Corps of Engineers
Seattle District

WASHINGTON STATE DEPARTMENT OF ECOLOGY

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: 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: May 19, 2015
Expiration Date: June 18, 2015

Reference No.: NWS-2015-0269-WRD
Name: Seattle, 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 U.S. as described below and shown on the enclosed drawings dated March 2015.

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 Seattle
Attention: Mr. Paul Meyer
Post Office Box 1209
Seattle, Washington 98111
Telephone: (206) 787-3127

LOCATION: In Duwamish West Waterway, at Terminal 5, in Seattle, Washington.

WORK: To rehabilitate existing Terminal 5 wharf structure and dredge up to 29,800 cubic yards from the berth area in West Waterway. Demolition of 59,000 square feet of existing waterward margin of the wharf, including crane rail beams and deck panels, fender system and structural piles (290 timber piles, 38 pinch piles, and 345 concrete structural piles). Rehabilitation of 2,900 linear feet of the terminal would be strengthening by replacing crane rail beams that includes installation of 420, 24-inch, pre-stressed, concrete piles beneath the existing structure. Concrete piles would be driven with impact hammer conducted from barge or landside crane. Slope stabilization measures beneath Terminal wharf include installation of up to 3,000, 14-inch, 60 foot long, untreated wooden piles that would penetrate the existing riprap slope. The timber piles would be installed using impact and vibratory pile driving with the finished piles installation matching the existing riprap slope gradient. A short toe wall would be installed at the transition between the constructed riprap slope beneath the existing cargo wharf and adjacent cargo vessel berth area to stabilize the bottom margin of the riprap armored slope. Up to 3,100 linear feet of combined steel sheet pile and H2 steel piles would be installed using vibratory pile driving. Limited impact pile driving may be required to complete portions of the toe wall. Replace the existing concrete deck structure, including deck panels, pile caps and edge of wharf structure. Replace the existing fender system, including removal of up to 300 piles and replace with panelized hanging fender. As part of the wharf's rehabilitation, the

electrical, water and stormwater system would be upgraded. Up to 41, 18-inch steel piles would be installed by vibratory driving in middle of the berth. These piles would be temporary and used for moorage of barge and vessel until the end of the project and would be removed upon completion of the project. Berth dredging includes the removal up to 29,800 cubic yards of sediments between -47 and -55 feet Mean Lower Low Water. Dredge materials would be disposed of at the Elliott Bay Unconfined Open-Water Disposal site.

PURPOSE: To improve efficient, operation safety, and support larger capacity container ships at Terminal 5.

Dredged Material Testing: The proposed dredged material has been tested according to the procedures specified by DMMP, a multi-agency program for the evaluation of dredged material proposed for disposal at open-water sites in Washington State. The DMMP evaluations may include both chemical and biological testing of sediments. For this project, the DMMP agencies determined that all 29,800 cubic yards were suitable for unconfined disposal at the DMMP nondispersive open-water disposal site in Elliott Bay. The sediment testing data are 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.

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. 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 Corps has reviewed the latest published version of the National Register of Historic Places, Washington Information System for Architectural and Archaeological Records Data 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.

NWS-2015-0269-WRD, Seattle, Port of

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 U.S.

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: The Port of Seattle (*the local regulatory authority*) has issued an exemption from the requirement of obtaining a Shorelines Substantial Development permit for this project.

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 authorizing the work would not be contrary to the public interest. 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 commenter'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.

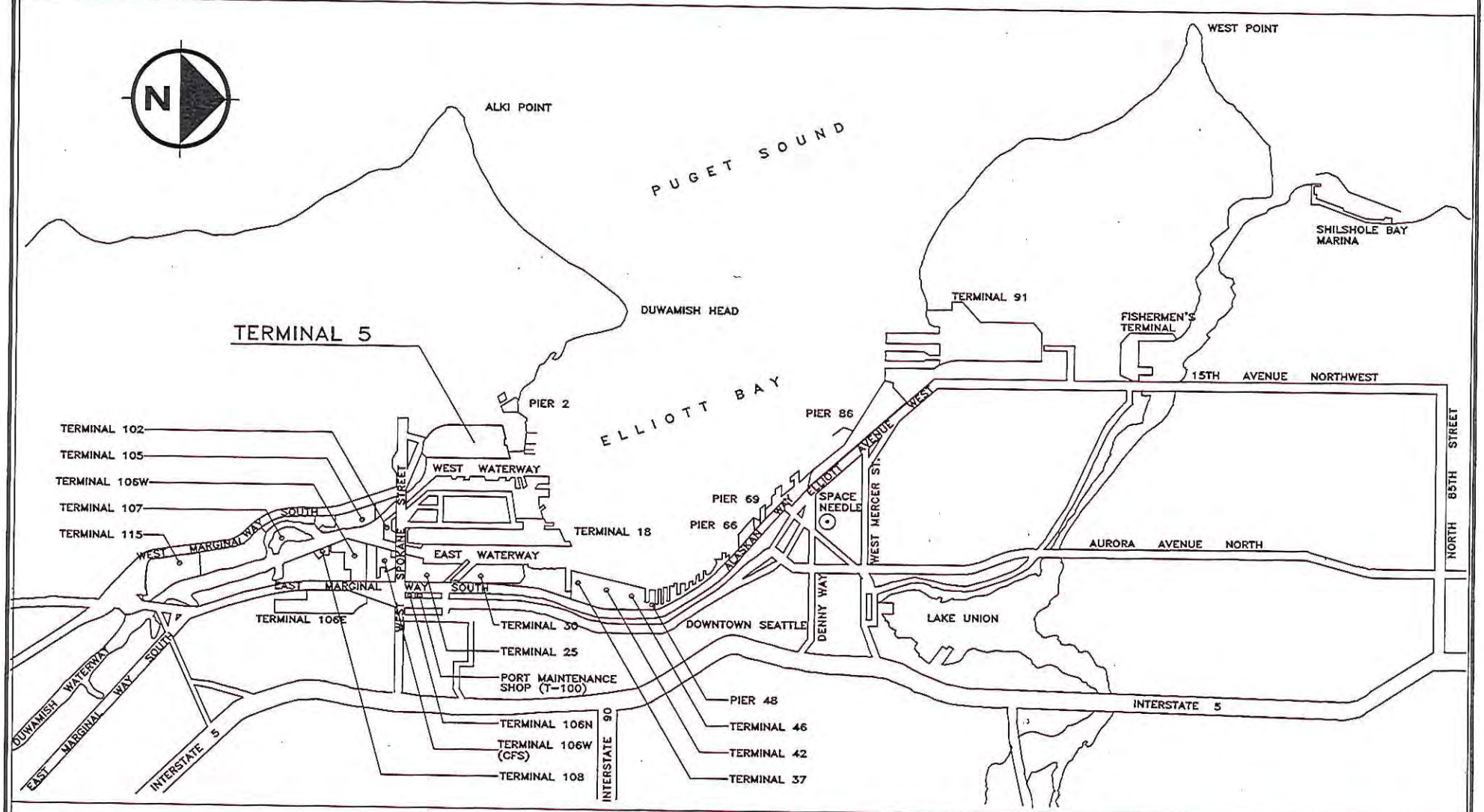
CORPS COMMENTS: All e-mail comments should be sent to olivia.h.romano@usace.army.mil. Conventional mail comments should be sent to: U.S. Army Corps of Engineers, Regulatory Branch, Attention: Ms. Olivia Romano, P.O. Box 3755, Seattle, Washington 98124-3755. All comments received will become part of the 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.

NWS-2015-0269-WRD, Seattle, Port of

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, Post Office Box 47600, Olympia, Washington 98504-7600, or e-mail to 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: Seattle, Port of; NWS-2015-0269-WRD

Encl: Figures (21)



VICINITY MAP – NO SCALE

NWS-2015-0269-WRD

TERMINAL 5 CARGO WHARF REHABILITATION AND BERTH DEEPENING

PURPOSE: STRENGTHEN CRANE RAIL; SLOPE STABILIZATION AND TOE WALL; BERTH DEEPENING

DATUM: MLLW = 0.0 FEET

ADJACENT PROPERTY OWNERS:

① CITY OF SEATTLE
② BNSF
③ WA DNR
④ RICHTER, EDDIE M
⑤ GENERAL STEEL SERVICES OF WASHINGTON LLC

Port of Seattle
P.O. BOX 1209
SEATTLE, WA 98111

LATITUDE:	47.3433 N
LONGITUDE:	122.2144 W
MEAN HIGHER HIGH WATER:	11.36'
MEAN LOWER LOW WATER:	0.00'

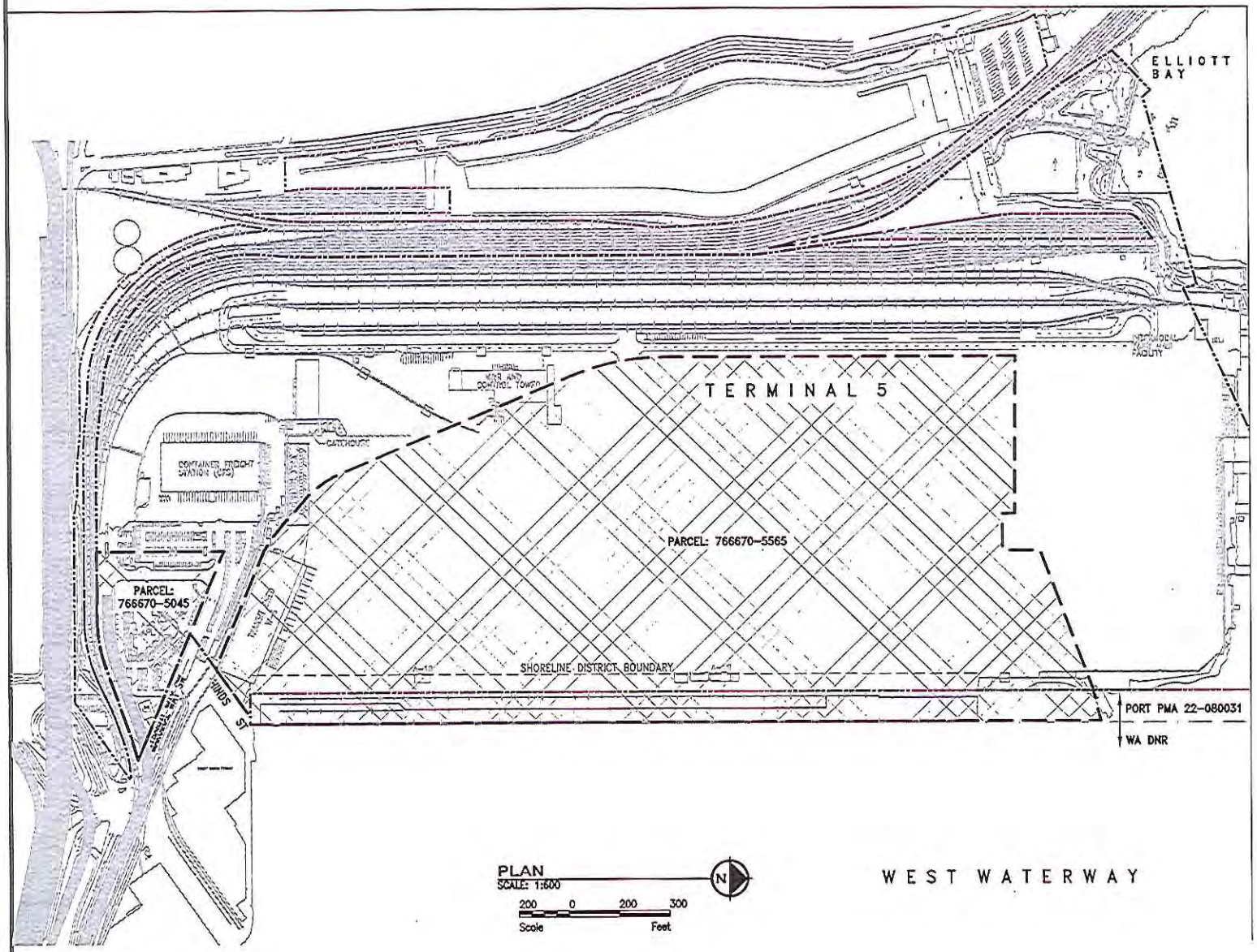
CITY OF: SEATTLE COUNTY OF: KING STATE OF: WASHINGTON

APPLICATION BY: PORT OF SEATTLE
P.O. BOX 1209
SEATTLE, WA 98111

SHEET TITLE: VICINITY MAP

SHEET 01 of 21

DATE: MARCH 2015



PRIMARY WORK PARCELS INFORMATION

PARCEL: 766670-5565
OWNER: PORT OF SEATTLE
ADDRESS: 2701 26TH AVE SW 98106
LEGAL: SEATTLE TIDE LDS EXT #1 BLK 427 & LOTS 4-16 BLK 428 & LOTS 1-7 BLK 429 & BLKS 432 & 433 & POR OF LOTS 1 & 2 & 40-48 BLK 434 OF SD PLAT AND BLKS 428A & 432A & 433A OF SEATTLE TIDE LANDS HALLERS SUPL PLAT- TGW PCL ADJ LY WITHIN WEST WATERWAY & W OF LN PLW & 125 FT E OF E LN SD BLKS 427 428 & 429 - 428A TGW PORS VACATED STS ADJ - TGW E 1/2 OF 28TH AVE SW ADJ & POR OF E 34 FT OF W 50 FT OF VAC 28TH AVE SW LY BTWN S MGN OF UNVACATED SW FLORDIA ST & N OF ELY PROD OF N LN OF LOT 36 BLK 440 SEATTLE TIDE LAND TGW POR VAC 28TH AVE SW & VAC SW HANDFORD ST LY ELY & NLY OF PCL A SEATTLE LBA# 3011466 REC #20101028900005 & W OF W MARGINAL WAY SW

PARCEL: 766670-5045
OWNER: PORT OF SEATTLE
ADDRESS: 3443 WEST MARGINAL WAY SW 98106
LEGAL: SEATTLE TIDE LD EXT #1 PCL D SEATTLE LBA #3011161 REC# 20101021900005 SD LBA DAF- ALL SD BLK 426 LESS POR LY WLY OF ALLEY PER AF #1178522

LEGEND:

- PORT OF SEATTLE BOUNDARY
- OUTER HARBOR LINE
- PRIMARY WORK PARCELS

NWS-2015-0269-WRD

TERMINAL 5 CARGO WHARF REHABILITATION AND BERTH DEEPENING

PURPOSE: STRENGTHEN CRANE RAIL; SLOPE STABILIZATION AND TOE WALL; BERTH DEEPENING

DATUM: MLLW = 0.0 FEET

ADJACENT PROPERTY OWNERS:
① CITY OF SEATTLE ② BNSF ③ WA DNR ④ RICHTER, EDDIE M ⑤ GENERAL STEEL SERVICES OF WASHINGTON LLC

Port of Seattle
P.O. BOX 1209
SEATTLE, WA 98111

LATITUDE:	47.3433 N
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MEAN LOWER LOW WATER:	0.00'

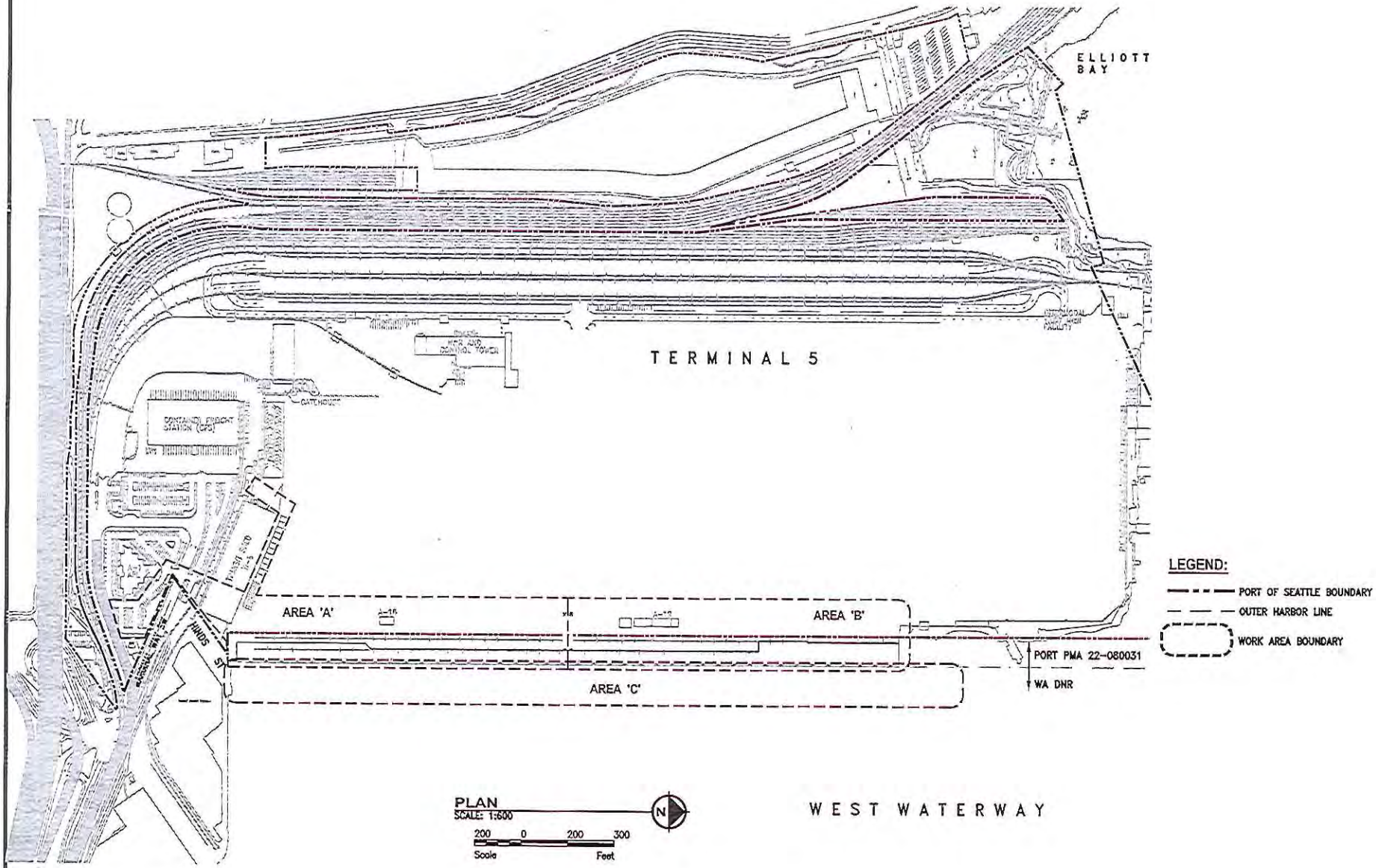
CITY OF: SEATTLE COUNTY OF: KING STATE OF: WASHINGTON

APPLICATION BY: PORT OF SEATTLE
P.O. BOX 1209
SEATTLE, WA 98111

SHEET TITLE: EXISTING CONDITIONS SITE PLAN

SHEET 02 of 21

DATE: MARCH 2015



NWS-2015-0269-WRD

TERMINAL 5 CARGO WHARF REHABILITATION AND BERTH DEEPENING

PURPOSE: STRENGTHEN CRANE RAIL; SLOPE STABILIZATION AND TOE WALL; BERTH DEEPENING

DATUM: MLLW = 0.0 FEET

ADJACENT PROPERTY OWNERS:
① CITY OF SEATTLE ③ WA DNR ⑤ GENERAL STEEL SERVICES OF WASHINGTON LLC
② BNSF ④ RICHTER, EDDIE M

Port of Seattle
P.O. BOX 1209
SEATTLE, WA 98111

LATITUDE:	47.3433 N
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MEAN HIGHER HIGH WATER:	11.36'
MEAN LOWER LOW WATER:	0.00'

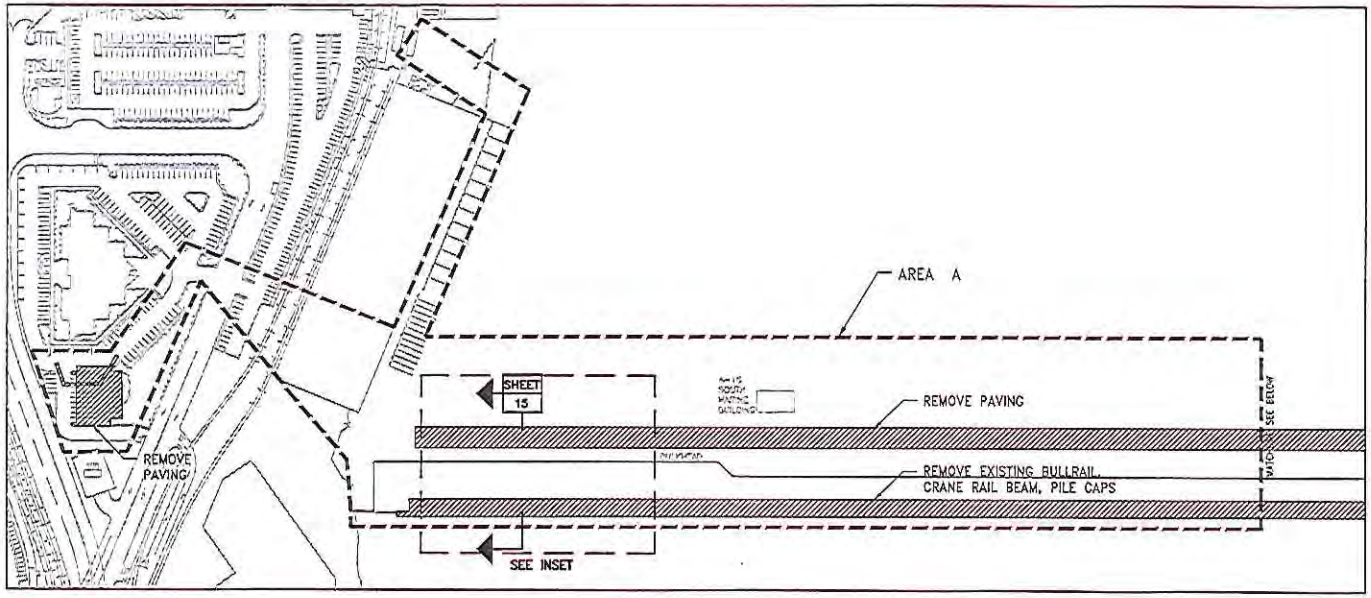
CITY OF: SEATTLE COUNTY OF: KING STATE OF: WASHINGTON

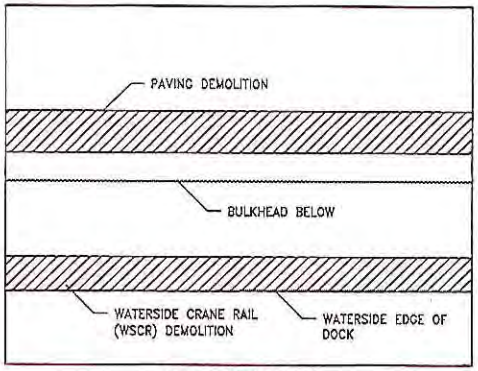
APPLICATION BY: PORT OF SEATTLE
P.O. BOX 1209
SEATTLE, WA 98111

SHEET TITLE: WORK AREAS SITE PLAN

SHEET 03 of 21

DATE: MARCH 2015





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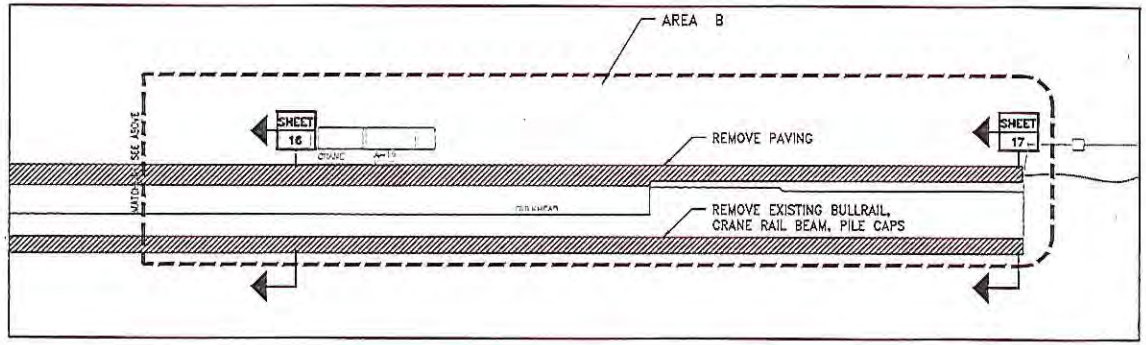


LEGEND:

WORK AREA BOUNDARY

DECK AND SUBSTATION DEMOLITION AREA

PLAN
SCALE: 1"=300'

100 0 100 200
Scale Feet

NWS-2015-0269-WRD

TERMINAL 5 CARGO WHARF REHABILITATION AND BERTH DEEPENING

PURPOSE: STRENGTHEN CRANE RAIL; SLOPE STABILIZATION AND TOE WALL; BERTH DEEPENING

DATUM: MLLW = 0.0 FEET

ADJACENT PROPERTY OWNERS:
① CITY OF SEATTLE ③ WA DNR ⑤ GENERAL STEEL SERVICES OF WASHINGTON LLC
② BNSF ④ RICHTER, EDDIE M

Port of Seattle
P.O. BOX 1209
SEATTLE, WA 98111

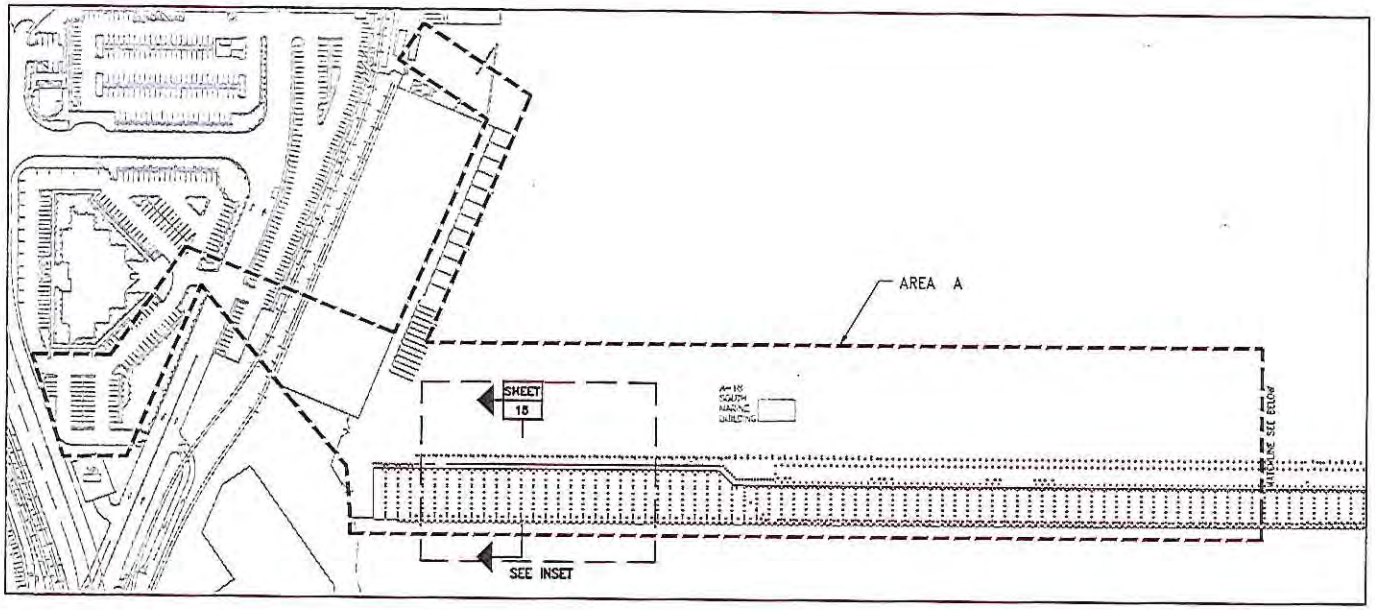
LATITUDE: 47.3433 N
LONGITUDE: 122.2144 W
MEAN HIGHER HIGH WATER: 11.36'
MEAN LOWER LOW WATER: 0.00'

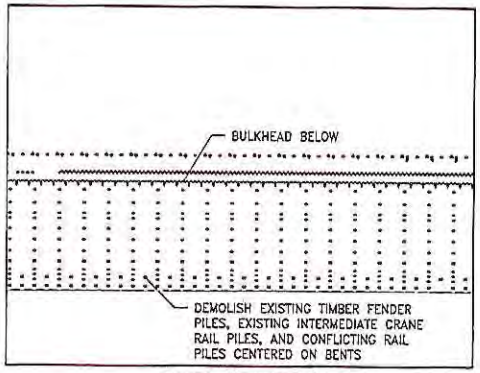
CITY OF: SEATTLE COUNTY OF: KING STATE OF: WASHINGTON

APPLICATION BY: PORT OF SEATTLE
P.O. BOX 1209
SEATTLE, WA 98111

SHEET TITLE: DECK AND SUBSTATION DEMOLITION
SHEET 04 of 21

DATE: MARCH 2015





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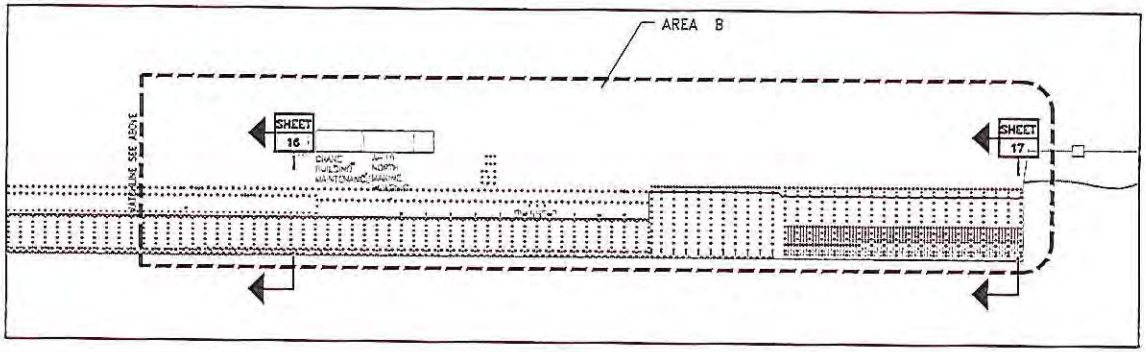

LEGEND:

- WORK AREA BOUNDARY
- EXISTING STRUCTURAL/TIMBER/PINCH PILE
- PILES TO BE REMOVED

PLAN
SCALE: 1"=300'

100 0 100 200
Scale Feet

N

NWS-2015-0269-WRD

TERMINAL 5 CARGO WHARF REHABILITATION AND BERTH DEEPENING

PURPOSE: STRENGTHEN CRANE RAIL; SLOPE STABILIZATION AND TOE WALL; BERTH DEEPENING

DATUM: MLLW = 0.0 FEET

ADJACENT PROPERTY OWNERS:

① CITY OF SEATTLE
② BNSF
③ WA DNR
④ RICHTER, EDDIE M
⑤ GENERAL STEEL SERVICES OF WASHINGTON LLC

Port of Seattle
P.O. BOX 1209
SEATTLE, WA 98111

LATITUDE:	47.3433 N
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MEAN HIGHER HIGH WATER:	11.36'
MEAN LOWER LOW WATER:	0.00'

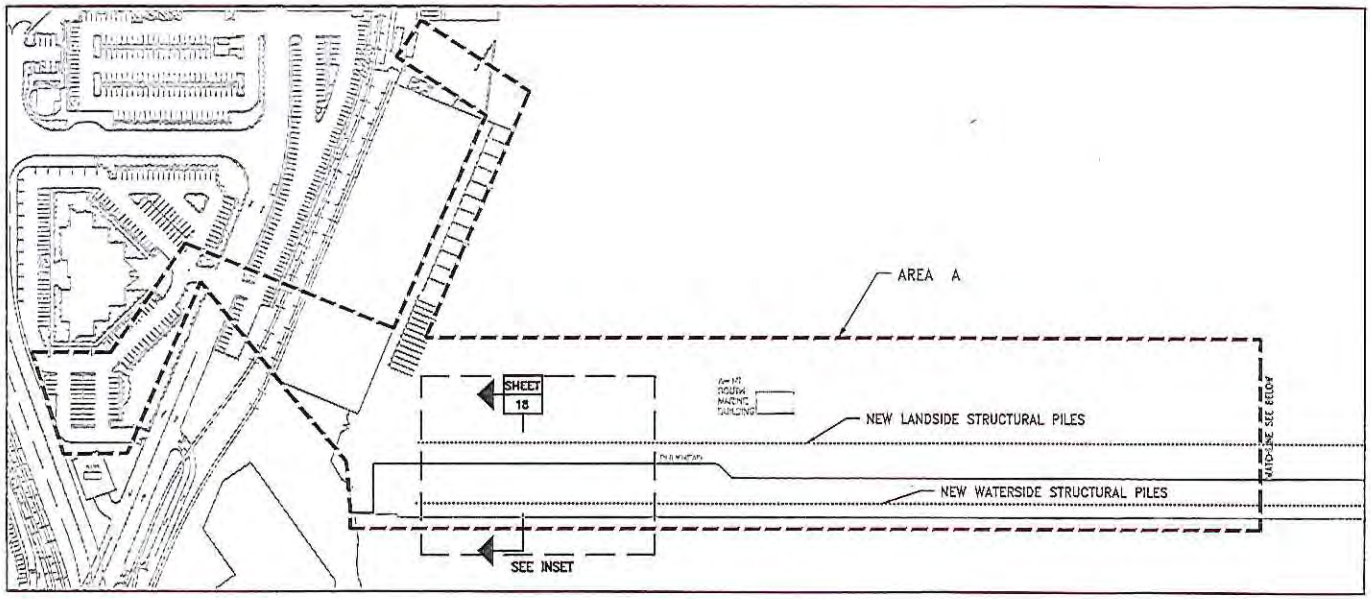
CITY OF: SEATTLE COUNTY OF: KING STATE OF: WASHINGTON

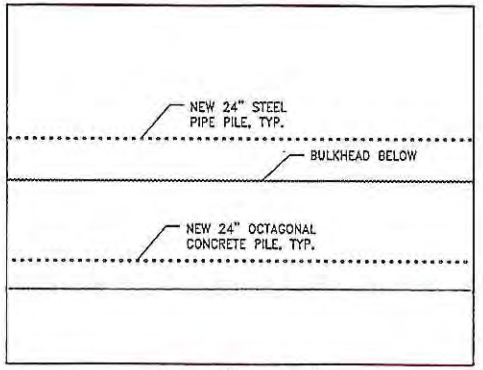
APPLICATION BY: PORT OF SEATTLE
P.O. BOX 1209
SEATTLE, WA 98111

SHEET TITLE: PILE DEMOLITION

SHEET 05 of 21

DATE: MARCH 2015





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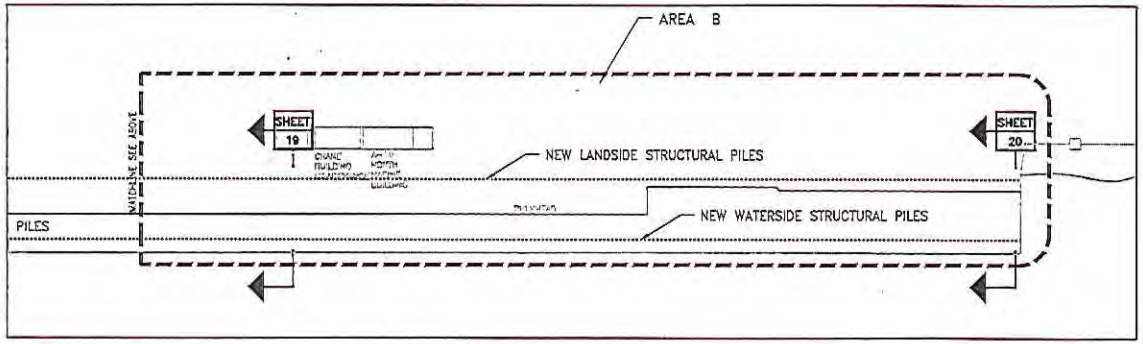

LEGEND:
WORK AREA BOUNDARY
NEW STRUCTURAL PILES

PLAN
SCALE: 1"=300'
100 0 100 200
Scale Feet

NWS-2015-0269-WRD

TERMINAL 5 CARGO WHARF REHABILITATION AND BERTH DEEPENING

PURPOSE: STRENGTHEN CRANE RAIL; SLOPE STABILIZATION AND TOE WALL; BERTH DEEPENING

DATUM: MLLW = 0.0 FEET

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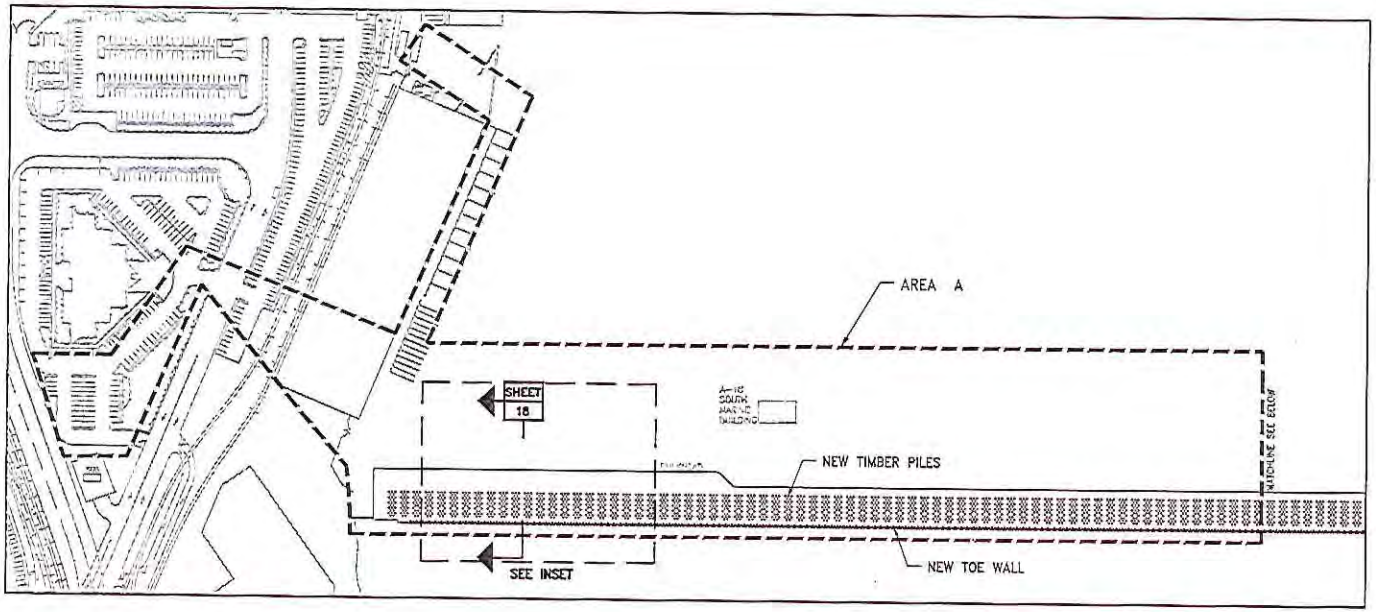
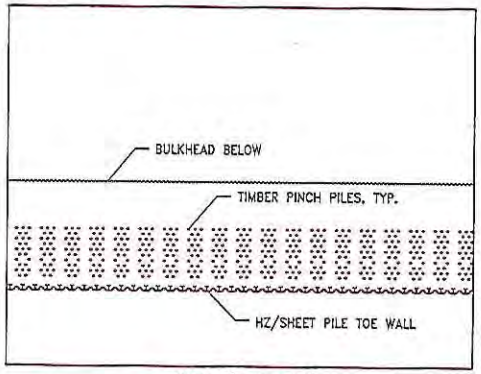
CITY OF: SEATTLE COUNTY OF: KING STATE OF: WASHINGTON

APPLICATION BY: PORT OF SEATTLE
P.O. BOX 1209
SEATTLE, WA 98111

SHEET TITLE: NEW STRUCTURAL PILES
SHEET 06 of 21

DATE: MARCH 2015





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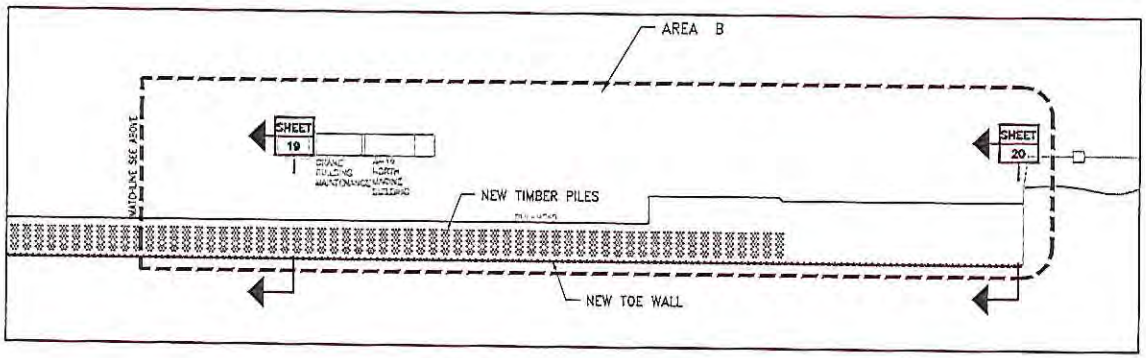

LEGEND:

- WORK AREA BOUNDARY
- NEW TOE WALL, HZ & SHEET PILES
- NEW PINCH PILES

PLAN
SCALE: 1"=300'

100 0 100 200
Scale Feet

NWS-2015-0269-WRD

TERMINAL 5 CARGO WHARF REHABILITATION AND BERTH DEEPENING

PURPOSE: STRENGTHEN CRANE RAIL; SLOPE STABILIZATION AND TOE WALL; BERTH DEEPENING

DATUM: MLLW = 0.0 FEET

ADJACENT PROPERTY OWNERS:
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② BNSF ④ RICHTER, EDDIE M

Port of Seattle
P.O. BOX 1209
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LATITUDE: 47.3433 N
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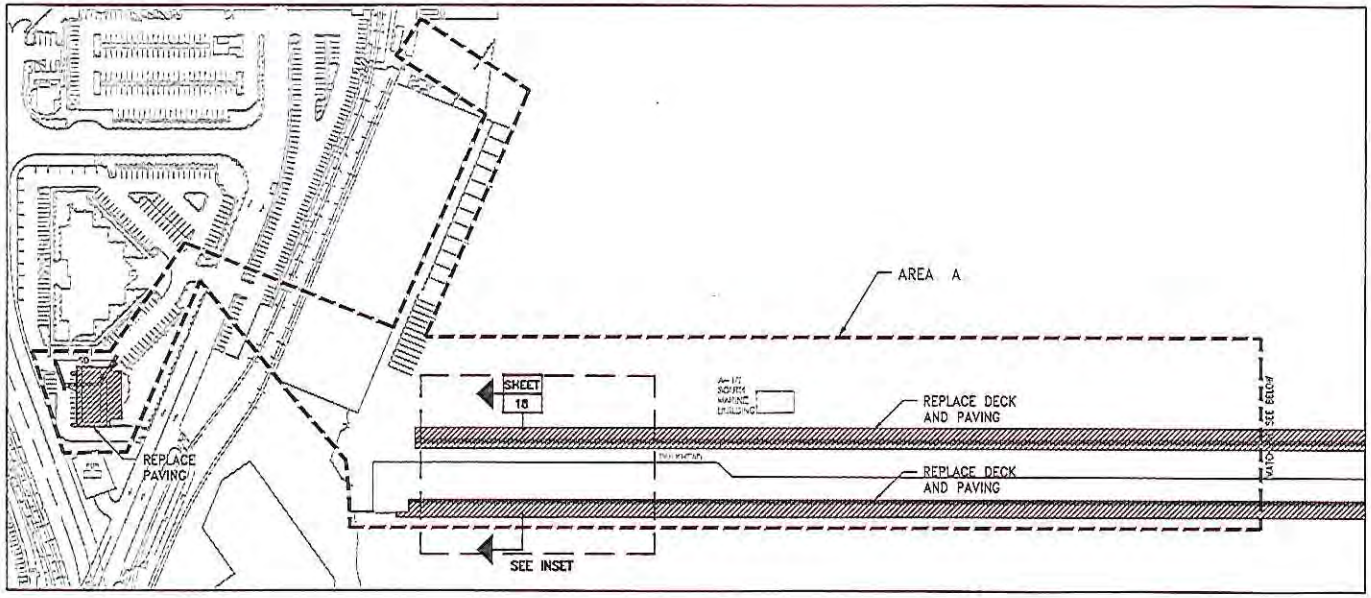
MEAN HIGHER HIGH WATER: 11.36'
MEAN LOWER LOW WATER: 0.00'

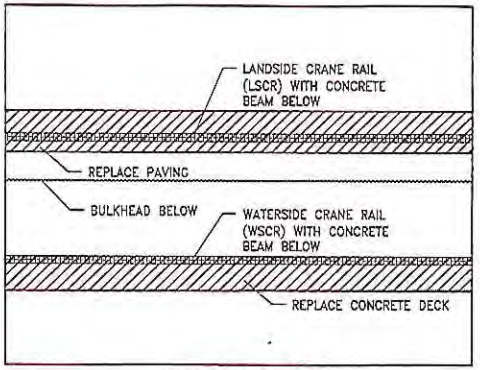
CITY OF: SEATTLE COUNTY OF: KING STATE OF: WASHINGTON

APPLICATION BY: PORT OF SEATTLE
P.O. BOX 1209
SEATTLE, WA 98111

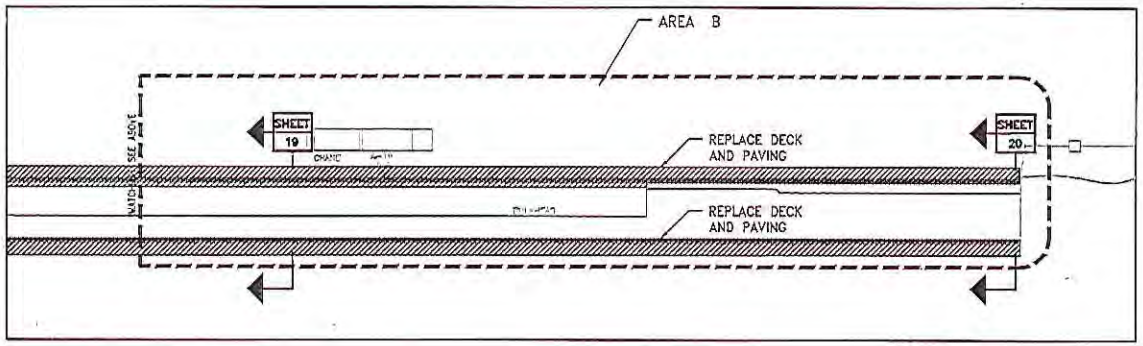
SHEET TITLE: NEW PINCH PILES AND TOE WALL
SHEET 07 of 21

DATE: MARCH 2015





INSET (TYPICAL)



LEGEND:

WORK AREA BOUNDARY

NEW CRANE RAIL

PLAN
SCALE: 1"=300'

100 0 100 200
Scale Feet

NWS-2015-0269-WRD

TERMINAL 5 CARGO WHARF REHABILITATION AND BERTH DEEPENING

PURPOSE: STRENGTHEN CRANE RAIL; SLOPE STABILIZATION AND TOE WALL; BERTH DEEPENING

DATUM: MLLW = 0.0 FEET

ADJACENT PROPERTY OWNERS:
① CITY OF SEATTLE
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Port of Seattle
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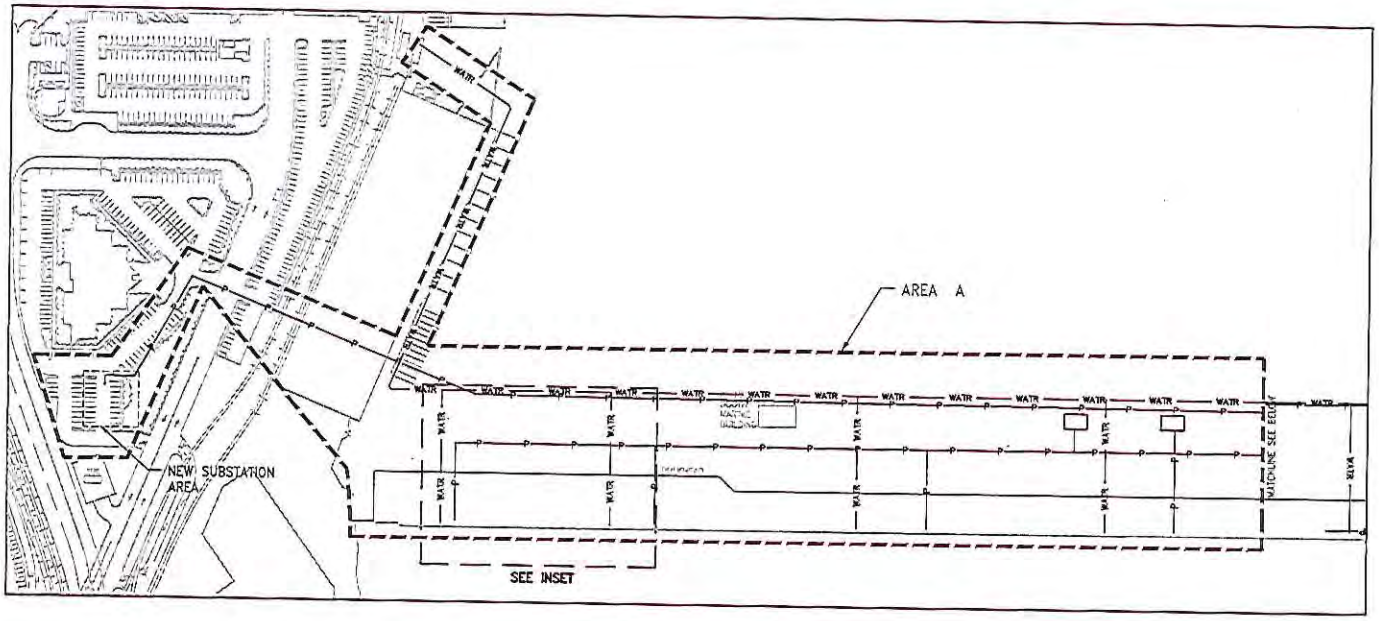
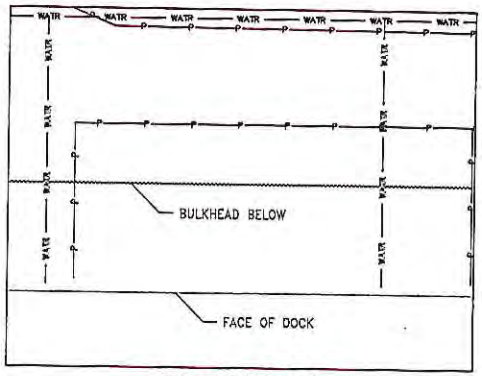
CITY OF: SEATTLE COUNTY OF: KING STATE OF: WASHINGTON

APPLICATION BY: PORT OF SEATTLE
P.O. BOX 1209
SEATTLE, WA 98111

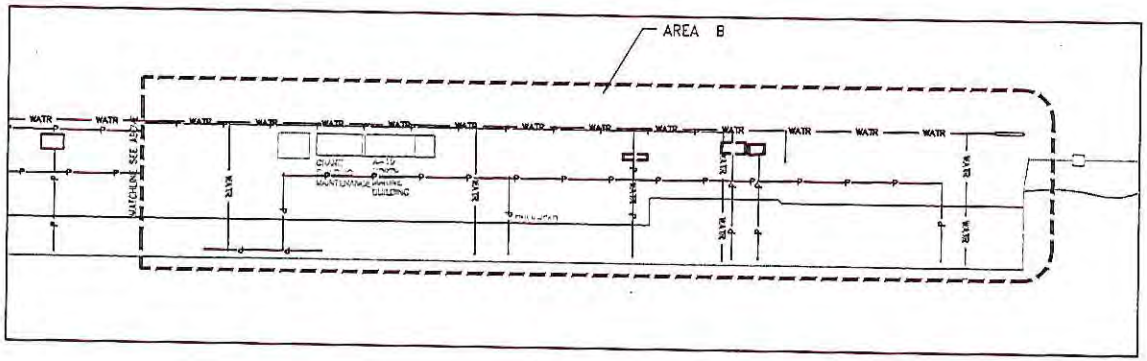
SHEET TITLE: NEW DECK/CRANE RAIL
SHEET 08 of 21

DATE: MARCH 2015





INSET (TYPICAL)



LEGEND:

WORK AREA BOUNDARY

WATR — PROPOSED WATER LINE

P — PROPOSED POWER LINE

PLAN
SCALE: 1"=300'

100 0 100 200
Scale Feet

NWS-2015-0269-WRD

TERMINAL 5 CARGO WHARF REHABILITATION AND BERTH DEEPENING

PURPOSE: STRENGTHEN CRANE RAIL; SLOPE STABILIZATION AND TOE WALL; BERTH DEEPENING

DATUM: MLLW = 0.0 FEET

ADJACENT PROPERTY OWNERS:
① CITY OF SEATTLE
② BNSF
③ WA DNR
④ RICHTER, EDDIE M
⑤ GENERAL STEEL SERVICES OF WASHINGTON LLC

Port of Seattle
P.O. BOX 1209
SEATTLE, WA 98111

LATITUDE:	47.3433 N
LONGITUDE:	122.2144 W
MEAN HIGHER HIGH WATER:	11.36'
MEAN LOWER LOW WATER:	0.00'

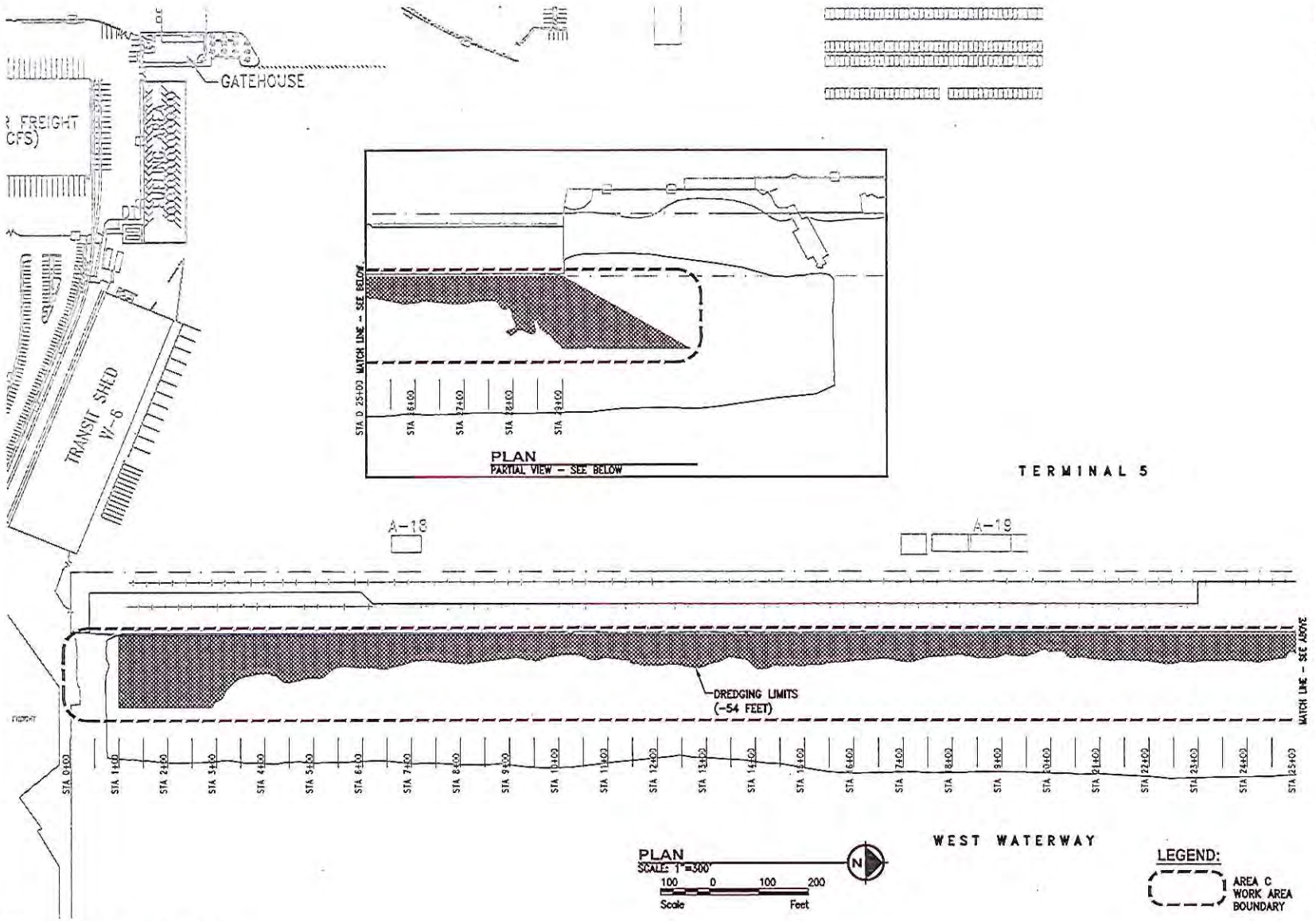
CITY OF: SEATTLE COUNTY OF: KING STATE OF: WASHINGTON

APPLICATION BY: PORT OF SEATTLE
P.O. BOX 1209
SEATTLE, WA 98111

SHEET TITLE: NEW UTILITIES

SHEET 09 of 21

DATE: MARCH 2015



NOTES:

1) -53 FEET REQUIRED DEPTH
2) -1 ADVANCED MAINTENANCE
3) UP TO -2 FOR OVERDEPTH
4) UP TO 234,460 SQ FT
5) UP TO 29,800 CU YDS

NWS-2015-0269-WRD

TERMINAL 5 CARGO WHARF REHABILITATION AND BERTH DEEPENING

PURPOSE: STRENGTHEN CRANE RAIL; SLOPE STABILIZATION AND TOE WALL; BERTH DEEPENING

DATUM: MLLW = 0.0 FEET

ADJACENT PROPERTY OWNERS:
① CITY OF SEATTLE
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LONGITUDE:	122.2144 W
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MEAN LOWER LOW WATER:	0.00'

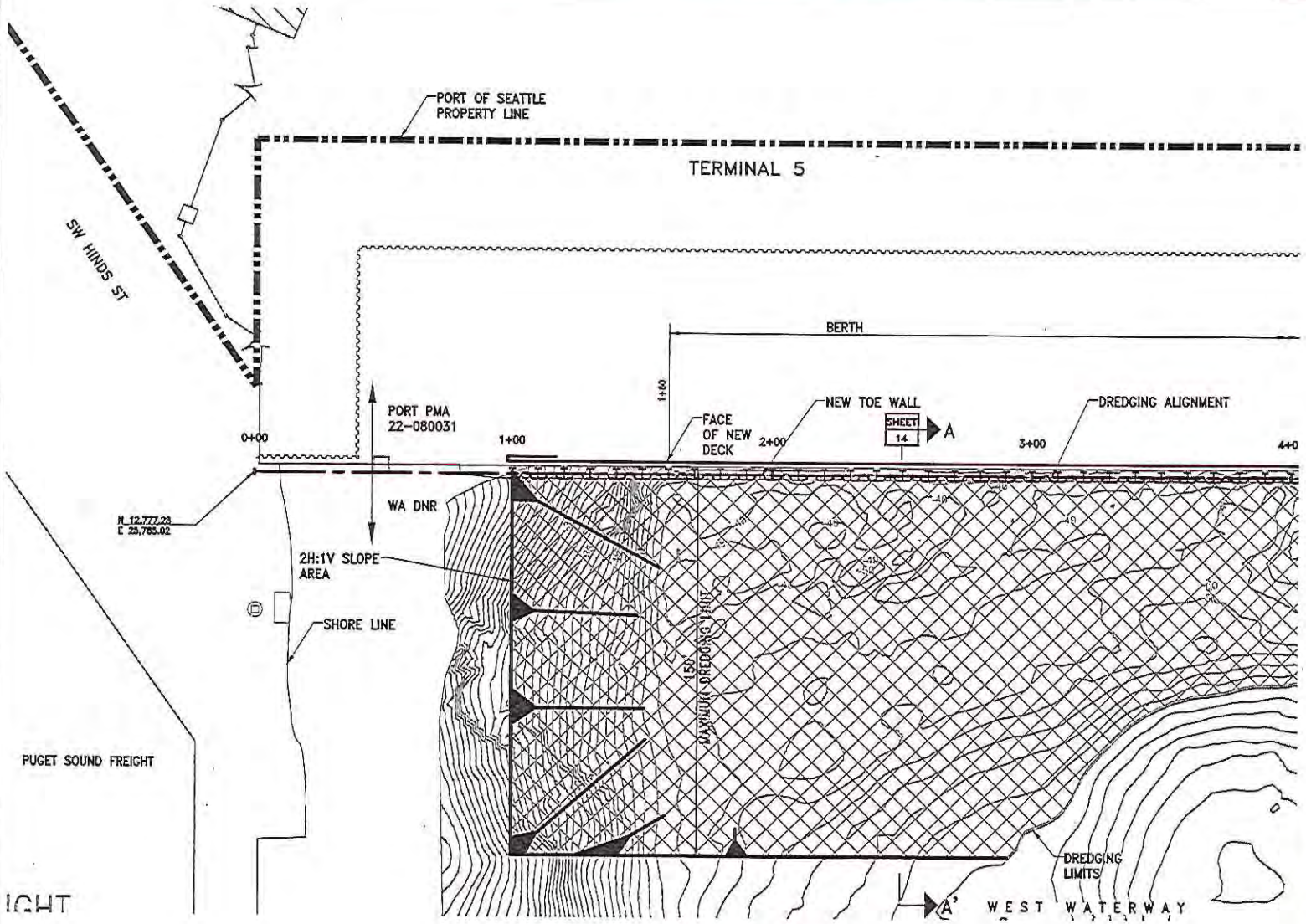
CITY OF: SEATTLE COUNTY OF: KING STATE OF: WASHINGTON

APPLICATION BY: PORT OF SEATTLE
P.O. BOX 1209
SEATTLE, WA 98111

SHEET TITLE: DREDGING PLAN

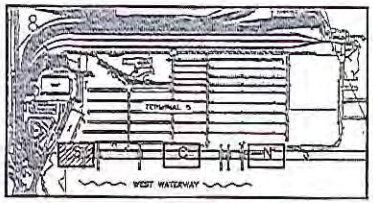
SHEET 10 of 21

DATE: MARCH 2015



LEGEND:

REQUIRED DREDGING TO -54 FEET MLLW. (-53 FEET DESIGN PLUS 1 FOOT ADVANCE MAINTENANCE)



NWS-2015-0269-WRD

TERMINAL 5 CARGO WHARF REHABILITATION AND BERTH DEEPENING

PURPOSE: STRENGTHEN CRANE RAIL; SLOPE STABILIZATION AND TOE WALL; BERTH DEEPENING

DATUM: MLLW = 0.0 FEET

ADJACENT PROPERTY OWNERS:
① CITY OF SEATTLE ② BNSF ③ WA DNR ④ RICHTER, EDDIE M ⑤ GENERAL STEEL SERVICES OF WASHINGTON LLC

Port of Seattle
P.O. BOX 1209
SEATTLE, WA 98111

LATITUDE:	47.3433 N
LONGITUDE:	122.2144 W
MEAN HIGHER HIGH WATER:	11.36'
MEAN LOWER LOW WATER:	0.00'

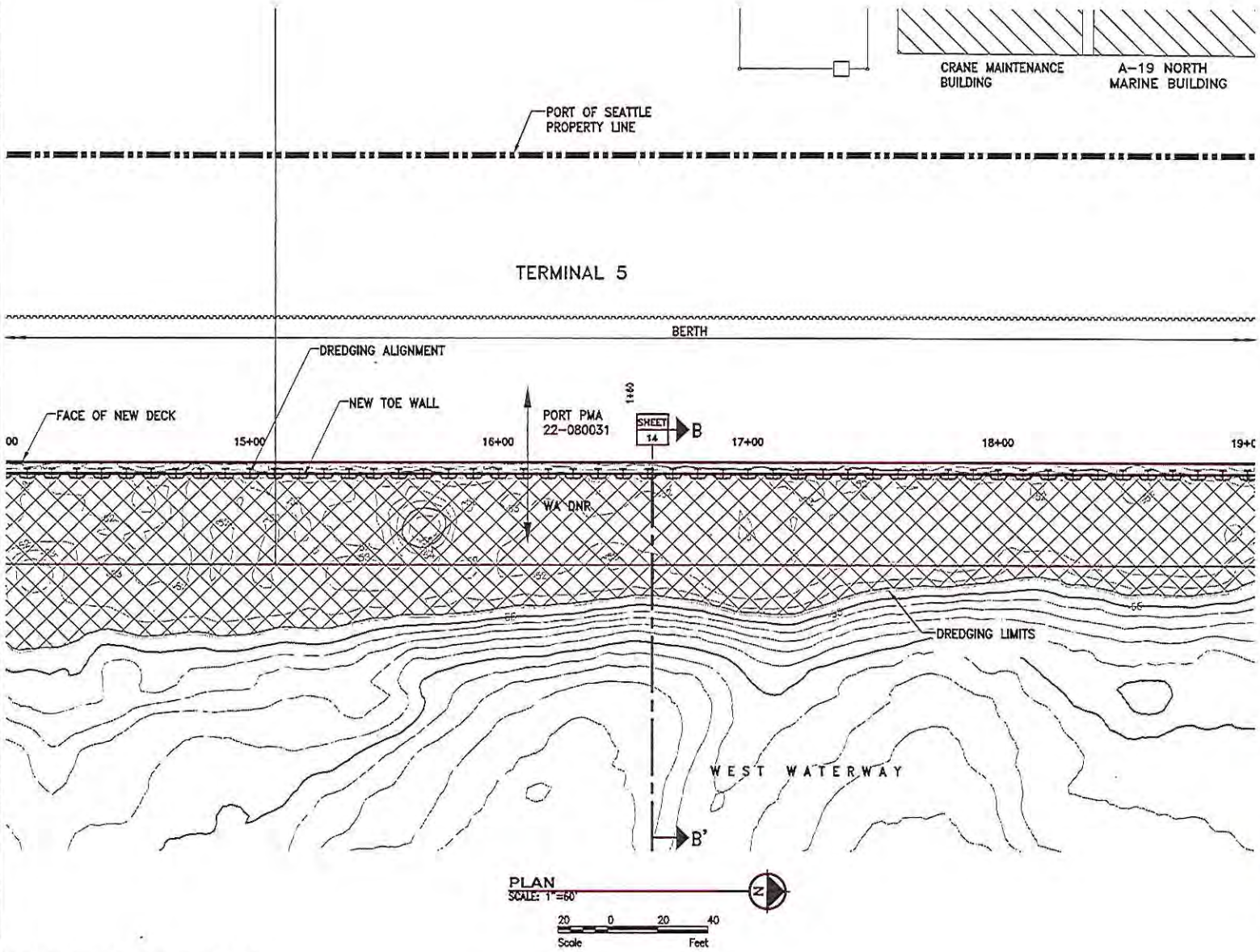
CITY OF: SEATTLE COUNTY OF: KING STATE OF: WASHINGTON

APPLICATION BY: PORT OF SEATTLE
P.O. BOX 1209
SEATTLE, WA 98111

SHEET TITLE: DREDGING PLAN DETAILS TYPICAL SOUTH AREA

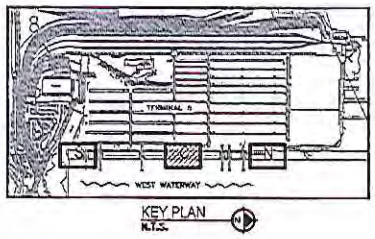
SHEET 11 of 21

DATE: MARCH 2015



LEGEND:

REQUIRED DREDGING TO -54 FEET MLLW. (-53 FEET DESIGN PLUS 1 FOOT ADVANCE MAINTENANCE)



NWS-2015-0269-WRD

TERMINAL 5 CARGO WHARF REHABILITATION AND BERTH DEEPENING

PURPOSE: STRENGTHEN CRANE RAIL; SLOPE STABILIZATION AND TOE WALL; BERTH DEEPENING

DATUM: MLLW = 0.0 FEET

ADJACENT PROPERTY OWNERS:
① CITY OF SEATTLE ③ WA DNR ⑤ GENERAL STEEL SERVICES OF WASHINGTON LLC
② BNSF ④ RICHTER, EDDIE M

Port of Seattle
P.O. BOX 1209
SEATTLE, WA 98111

LATITUDE:	47.3433 N
LONGITUDE:	122.2144 W
MEAN HIGHER HIGH WATER:	11.36'
MEAN LOWER LOW WATER:	0.00'

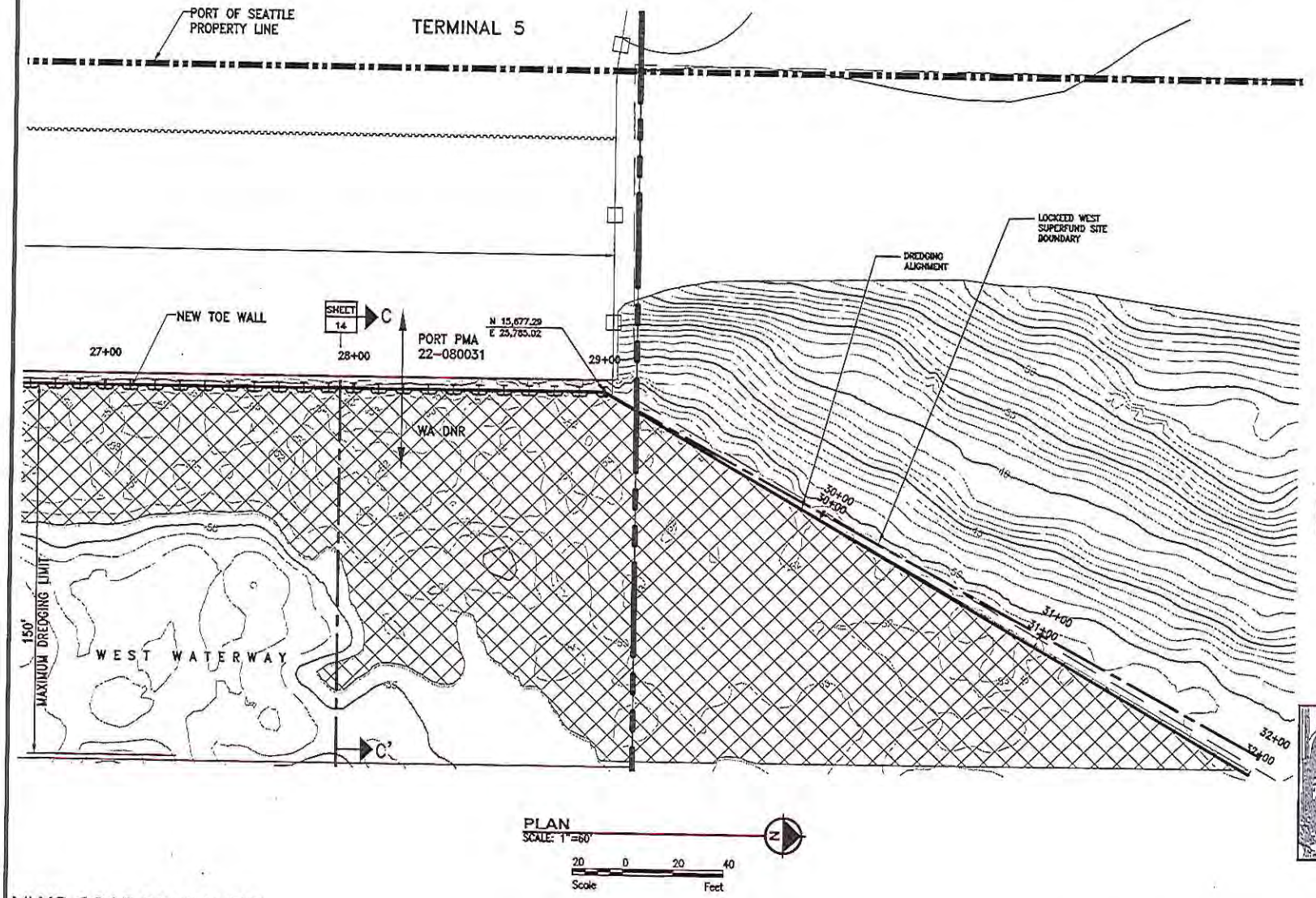
CITY OF: SEATTLE COUNTY OF: KING STATE OF: WASHINGTON

APPLICATION BY: PORT OF SEATTLE
P.O. BOX 1209
SEATTLE, WA 98111

SHEET TITLE: DREDGING PLAN DETAILS TYPICAL CENTRAL AREA

SHEET 12 of 21

DATE: MARCH 2015



NWS-2015-0269-WRD

TERMINAL 5 CARGO WHARF REHABILITATION AND BERTH DEEPENING

PURPOSE: STRENGTHEN CRANE RAIL; SLOPE STABILIZATION AND TOE WALL; BERTH DEEPENING

DATUM: MLLW = 0.0 FEET

ADJACENT PROPERTY OWNERS:
① CITY OF SEATTLE
② BNSF
③ WA DNR
④ RICHTER, EDDIE M
⑤ GENERAL STEEL SERVICES OF WASHINGTON LLC

Port of Seattle
P.O. BOX 1209
SEATTLE, WA 98111

LATITUDE:	47.3433 N
LONGITUDE:	122.2144 W
MEAN HIGHER HIGH WATER:	11.36'
MEAN LOWER LOW WATER:	0.00'

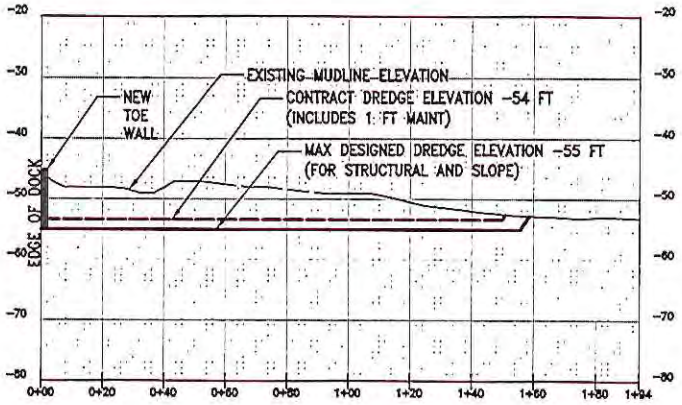
CITY OF: SEATTLE COUNTY OF: KING STATE OF: WASHINGTON

APPLICATION BY: PORT OF SEATTLE
P.O. BOX 1209
SEATTLE, WA 98111

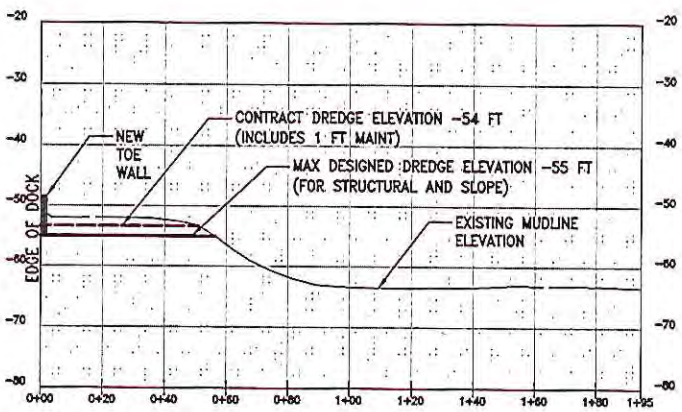
SHEET TITLE: DREDGING PLAN DETAILS TYPICAL NORTH AREA

SHEET 13 of 21

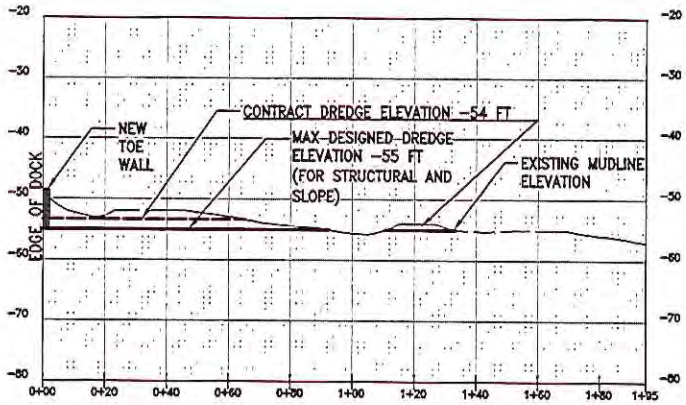
DATE: MARCH 2015



SECTION A–A
VERTICAL SCALE: 1"=30'
HORIZONTAL SCALE: 1"=60'
SHEET11



SECTION B–B
VERTICAL SCALE: 1"=30'
HORIZONTAL SCALE: 1"=60'
SHEET12



SECTION C–C
VERTICAL SCALE: 1"=40'
HORIZONTAL SCALE: 1"=40'
SHEET13

NWS-2015-0269-WRD

TERMINAL 5 CARGO WHARF REHABILITATION AND BERTH DEEPENING

PURPOSE: STRENGTHEN CRANE RAIL; SLOPE STABILIZATION AND TOE WALL; BERTH DEEPENING

DATUM: MLLW = 0.0 FEET

ADJACENT PROPERTY OWNERS:
① CITY OF SEATTLE
② BNSF
③ WA DNR
④ RICHTER, EDDIE M
⑤ GENERAL STEEL SERVICES OF WASHINGTON LLC

Port of Seattle
P.O. BOX 1209
SEATTLE, WA 98111

LATITUDE:	47.3433 N
LONGITUDE:	122.2144 W
MEAN HIGHER HIGH WATER:	11.36'
MEAN LOWER LOW WATER:	0.00'

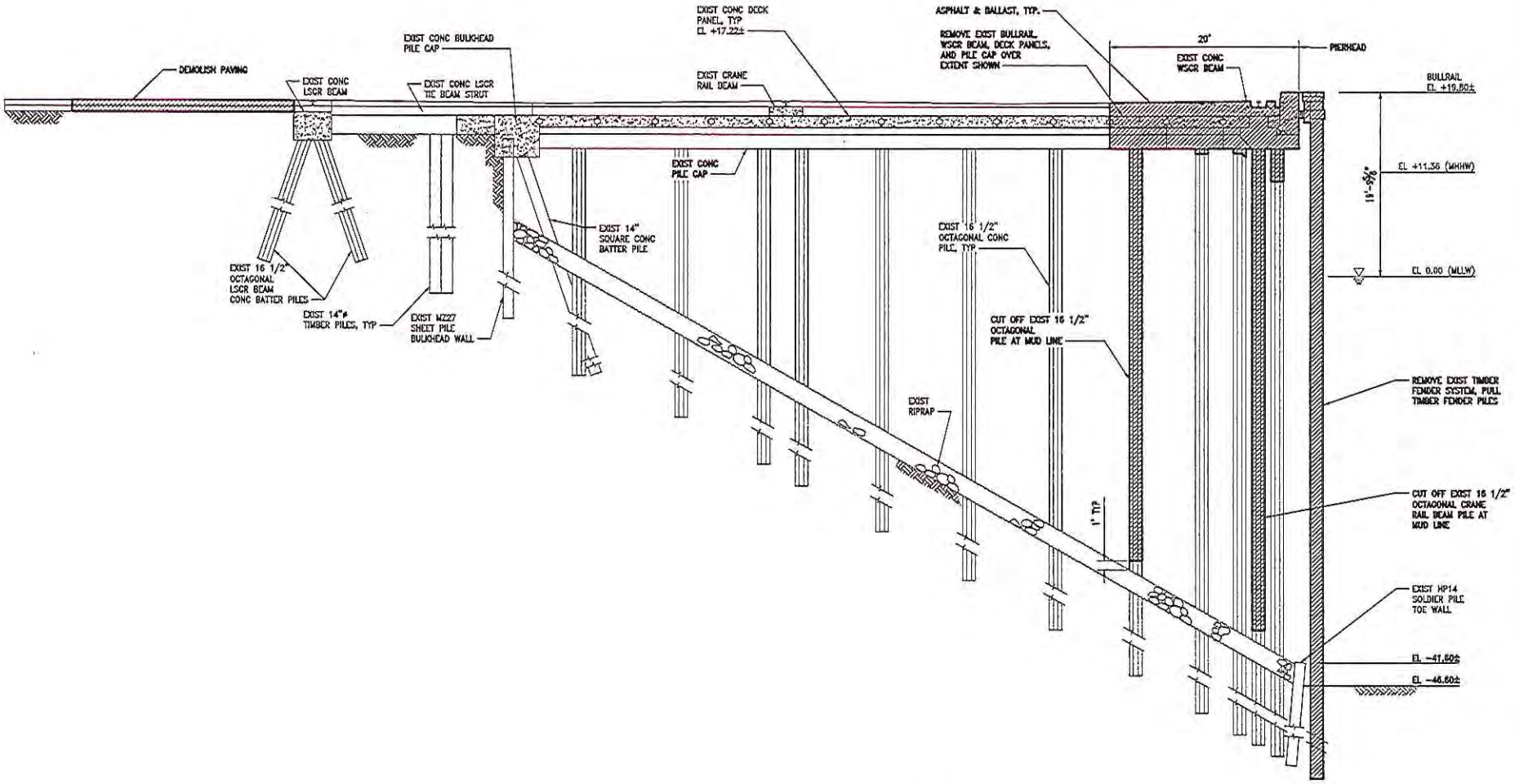
CITY OF: SEATTLE COUNTY OF: KING STATE OF: WASHINGTON

APPLICATION BY: PORT OF SEATTLE
P.O. BOX 1209
SEATTLE, WA 98111

SHEET TITLE: DREDGING CROSS SECTIONS

SHEET 14 of 21

DATE: MARCH 2015



LEGEND:

DEMOLITION AREA

SECTION
BENT 205
SCALE: 1/16" = 1'-0"

SHEET	SHEET
4	5

6 0 6 12 18 24 30
Scale Feet

NWS-2015-0295-WRD

TERMINAL 5 CARGO WHARF REHABILITATION AND BERTH DEEPENING

PURPOSE: STRENGTHEN CRANE RAIL; SLOPE STABILIZATION AND TOE WALL; BERTH DEEPENING

DATUM: MLLW = 0.0 FEET

ADJACENT PROPERTY OWNERS:
① CITY OF SEATTLE
② BNSF
③ WA DNR
④ RICHTER, EDDIE M
⑤ GENERAL STEEL SERVICES OF WASHINGTON LLC

Port of Seattle
P.O. BOX 1209
SEATTLE, WA 98111

LATITUDE: 47.3433 N
LONGITUDE: 122.2144 W
MEAN HIGHER HIGH WATER: 11.36'
MEAN LOWER LOW WATER: 0.00'

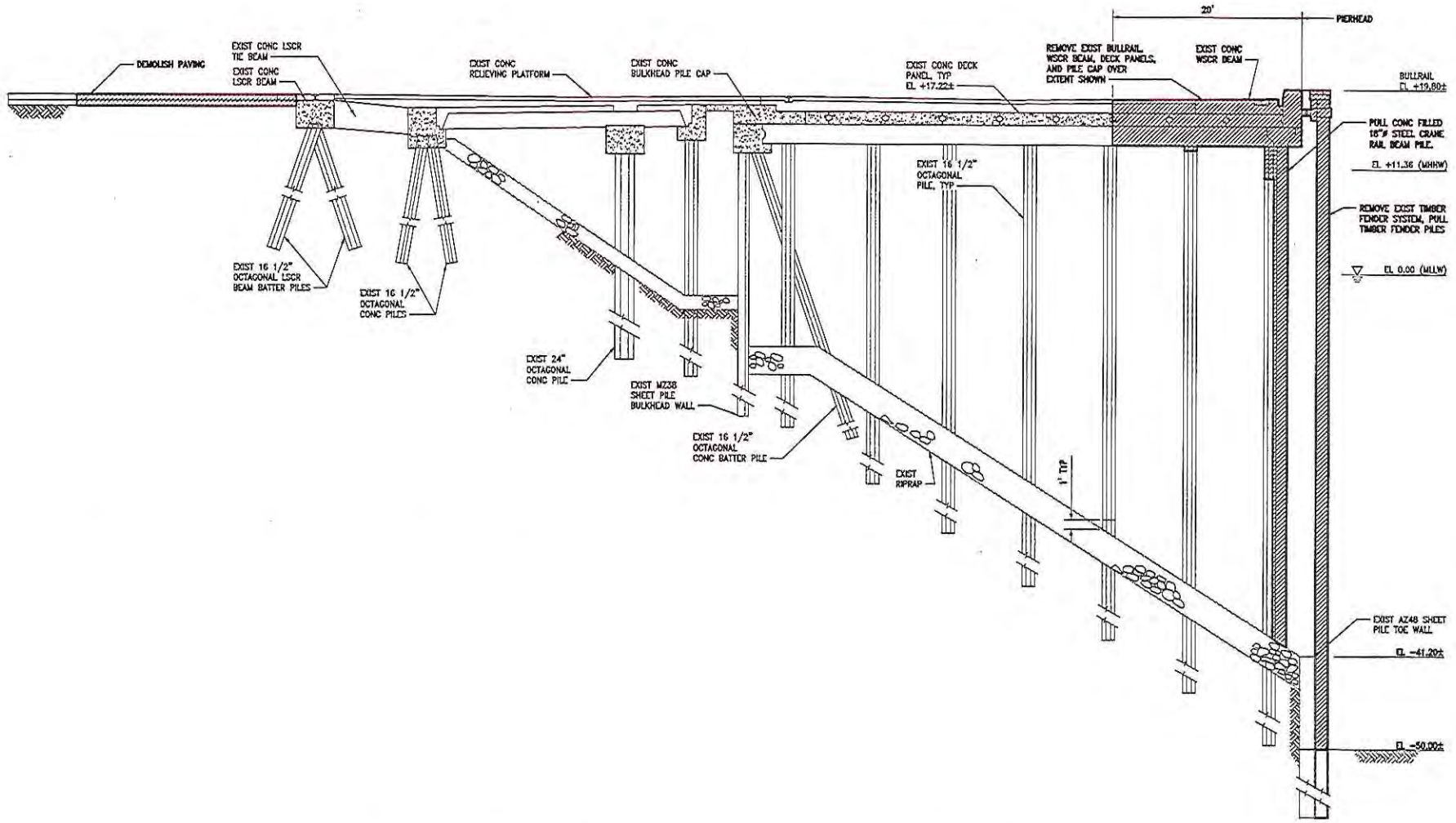
CITY OF: SEATTLE COUNTY OF: KING STATE OF: WASHINGTON

APPLICATION BY: PORT OF SEATTLE
P.O. BOX 1209
SEATTLE, WA 98111

SHEET TITLE: DEMOLITION CROSS SECTION A

SHEET 15 of 21

DATE: MARCH 2015



LEGEND:

DEMOLITION AREA

SECTION
BOAT 45
SCALE: 1/16" = 1'-0"

SHEET	SHEET
4	5

6 0 6 12 18 24 30
Scale Feet

NWS-2015-0269-WRD

TERMINAL 5 CARGO WHARF REHABILITATION AND BERTH DEEPENING

PURPOSE: STRENGTHEN CRANE RAIL; SLOPE STABILIZATION AND TOE WALL; BERTH DEEPENING

DATUM: MLLW = 0.0 FEET

ADJACENT PROPERTY OWNERS:
① CITY OF SEATTLE ③ WA DNR ⑤ GENERAL STEEL SERVICES OF WASHINGTON LLC
② BNSF ④ RICHTER, EDDIE M

Port of Seattle
P.O. BOX 1209
SEATTLE, WA 98111

LATITUDE: 47.3433 N
LONGITUDE: 122.2144 W
MEAN HIGHER HIGH WATER: 11.36'
MEAN LOWER LOW WATER: 0.00'

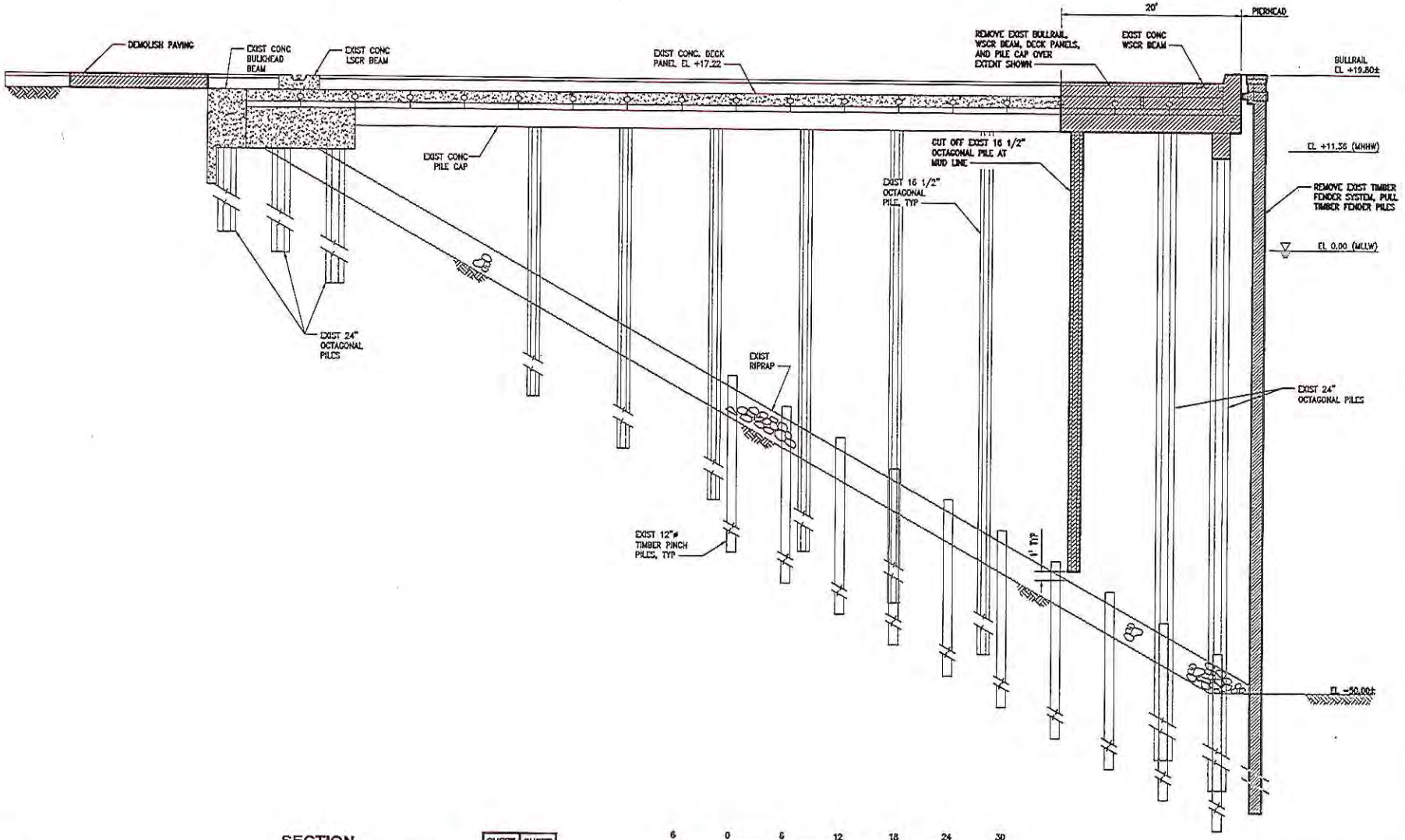
CITY OF: SEATTLE COUNTY OF: KING STATE OF: WASHINGTON

APPLICATION BY: PORT OF SEATTLE
P.O. BOX 1209
SEATTLE, WA 98111

SHEET TITLE: DEMOLITION CROSS SECTION B

SHEET 16 of 21

DATE: MARCH 2015



LEGEND:

DEMOLITION AREA

SECTION
BENT 100
SCALE: 1/16" = 1'-0"

SHEET	SHEET
4	5

NWS-2015-0269-WRD

TERMINAL 5 CARGO WHARF REHABILITATION AND BERTH DEEPENING

PURPOSE: STRENGTHEN CRANE RAIL; SLOPE STABILIZATION AND TOE WALL; BERTH DEEPENING

DATUM: MLLW = 0.0 FEET

ADJACENT PROPERTY OWNERS:
① CITY OF SEATTLE
② BNSF
③ WA DNR
④ RICHTER, EDDIE M
⑤ GENERAL STEEL SERVICES OF WASHINGTON LLC

Port of Seattle
P.O. BOX 1209
SEATTLE, WA 98111

LATITUDE:	47.3433 N
LONGITUDE:	122.2144 W
MEAN HIGHER HIGH WATER:	11.36'
MEAN LOWER LOW WATER:	0.00'

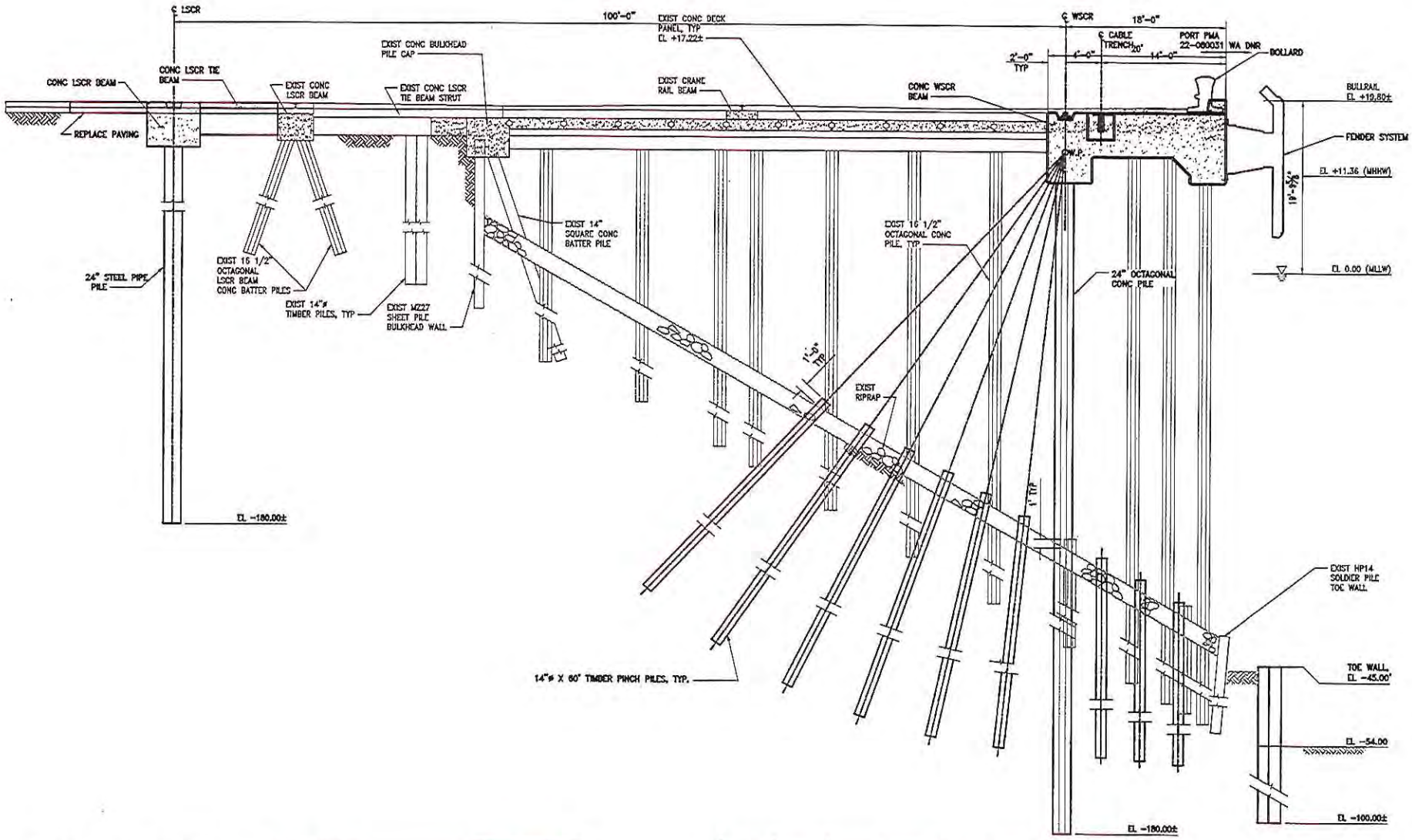
CITY OF: SEATTLE COUNTY OF: KING STATE OF: WASHINGTON

APPLICATION BY: PORT OF SEATTLE
P.O. BOX 1209
SEATTLE, WA 98111

SHEET TITLE: DEMOLITION CROSS SECTION C

SHEET 17 of 21

DATE: MARCH 2015



NWS-2015-0269-WRD

SECTION
BENT 20S
SCALE: 1/16" = 1'-0"

SHEET	SHEET	SHEET
6	7	8

TERMINAL 5 CARGO WHARF REHABILITATION AND BERTH DEEPENING

PURPOSE: STRENGTHEN CRANE RAIL; SLOPE STABILIZATION AND TOE WALL; BERTH DEEPENING

DATUM: MLLW = 0.0 FEET

ADJACENT PROPERTY OWNERS:

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② BNSF
③ WA DNR
④ RICHTER, EDDIE M
⑤ GENERAL STEEL SERVICES OF WASHINGTON LLC

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SEATTLE, WA 98111

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LONGITUDE:	122.2144 W
MEAN HIGHER HIGH WATER:	11.36'
MEAN LOWER LOW WATER:	0.00'

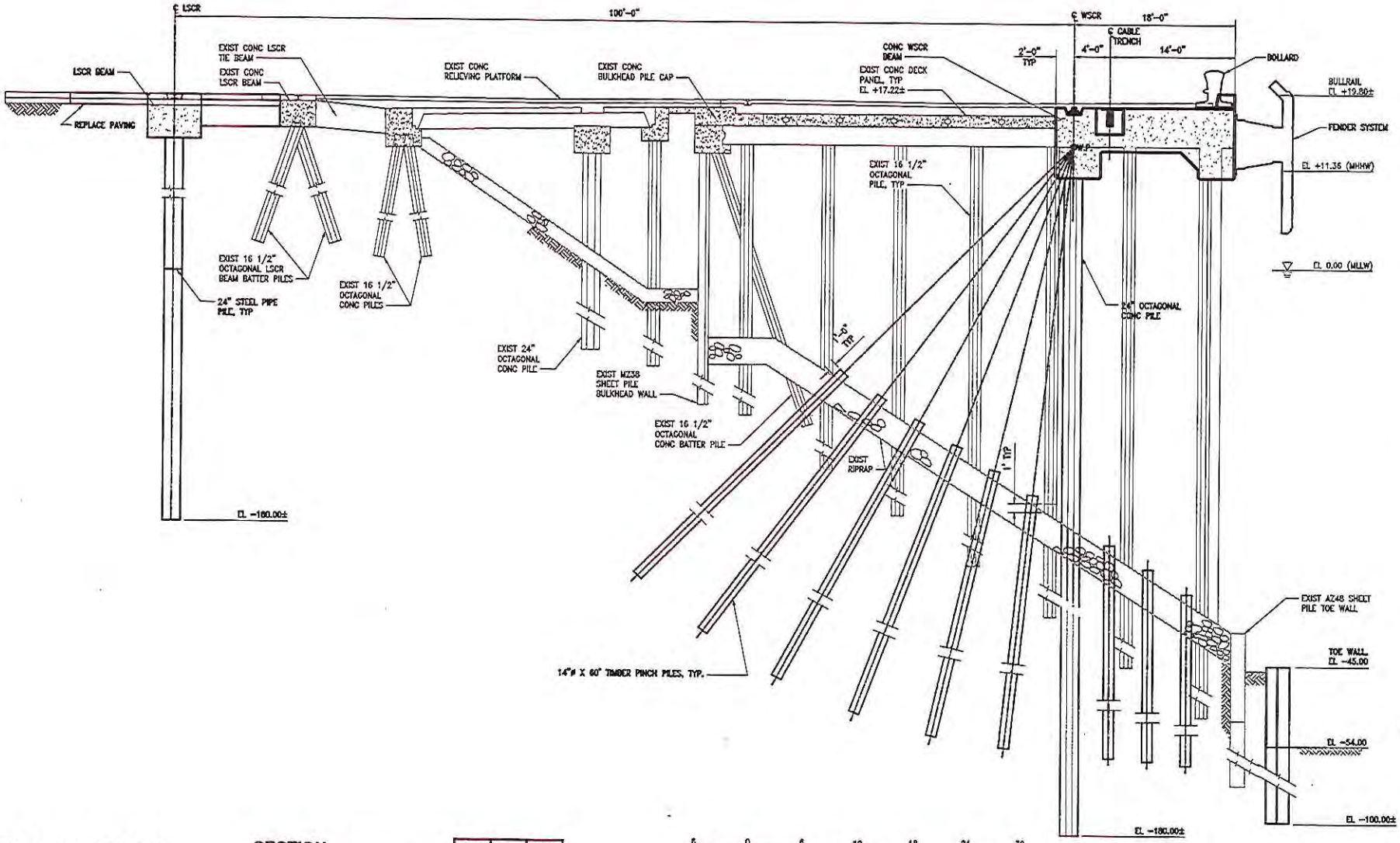
CITY OF: SEATTLE COUNTY OF: KING STATE OF: WASHINGTON

APPLICATION BY: PORT OF SEATTLE
P.O. BOX 1209
SEATTLE, WA 98111

SHEET TITLE: NEW CROSS SECTION A

SHEET 18 of 21

DATE: MARCH 2015



NWS-2015-0269-WRD

SECTION
BENT 45
SCALE: 1/16" = 1'-0"

SHEET	SHEET	SHEET
6	7	8

6 0 6 12 18 24 30
Scale Feet

TERMINAL 5 CARGO WHARF REHABILITATION AND BERTH DEEPENING

PURPOSE: STRENGTHEN CRANE RAIL; SLOPE STABILIZATION AND TOE WALL; BERTH DEEPENING

DATUM: MLLW = 0.0 FEET

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⑤ GENERAL STEEL SERVICES OF WASHINGTON LLC

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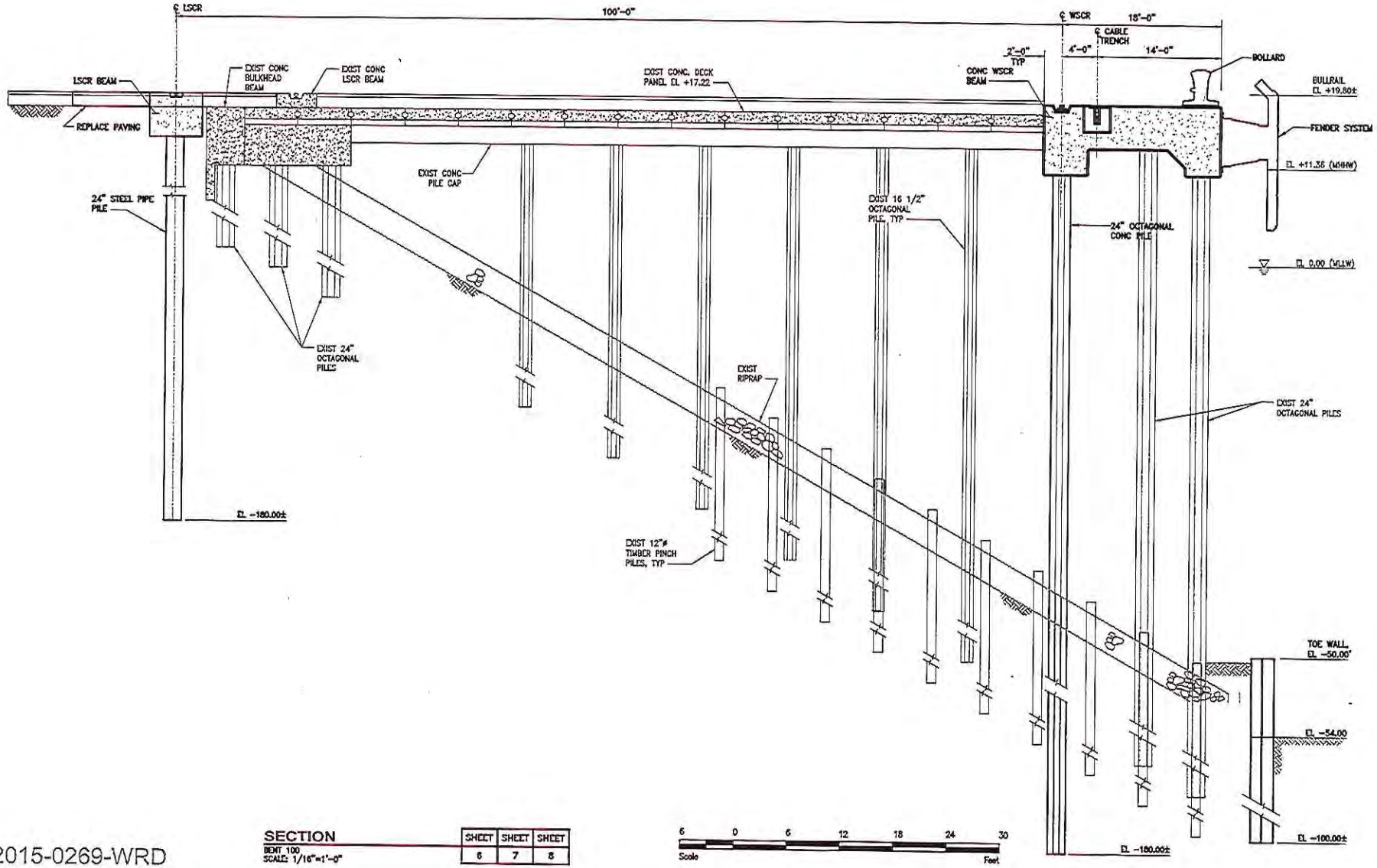
MEAN LOWER LOW WATER: 0.00'

CITY OF: SEATTLE COUNTY OF: KING STATE OF: WASHINGTON

APPLICATION BY: PORT OF SEATTLE
P.O. BOX 1209
SEATTLE, WA 98111

SHEET TITLE: NEW CROSS SECTION B
SHEET 19 of 21

DATE: MARCH 2015



NWS-2015-0269-WRD

SECTION
BENT 100
SCALE: 1/16"=1'-0"

SHEET	SHEET	SHEET
6	7	8

TERMINAL 5 CARGO WHARF REHABILITATION AND BERTH DEEPENING

PURPOSE: STRENGTHEN CRANE RAIL; SLOPE STABILIZATION AND TOE WALL; BERTH DEEPENING

DATUM: MLLW = 0.0 FEET

ADJACENT PROPERTY OWNERS:
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② BNSF
③ WA DNR
④ RICHTER, EDDIE M
⑤ GENERAL STEEL SERVICES OF WASHINGTON LLC

Port of Seattle
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LONGITUDE: 122.2144 W
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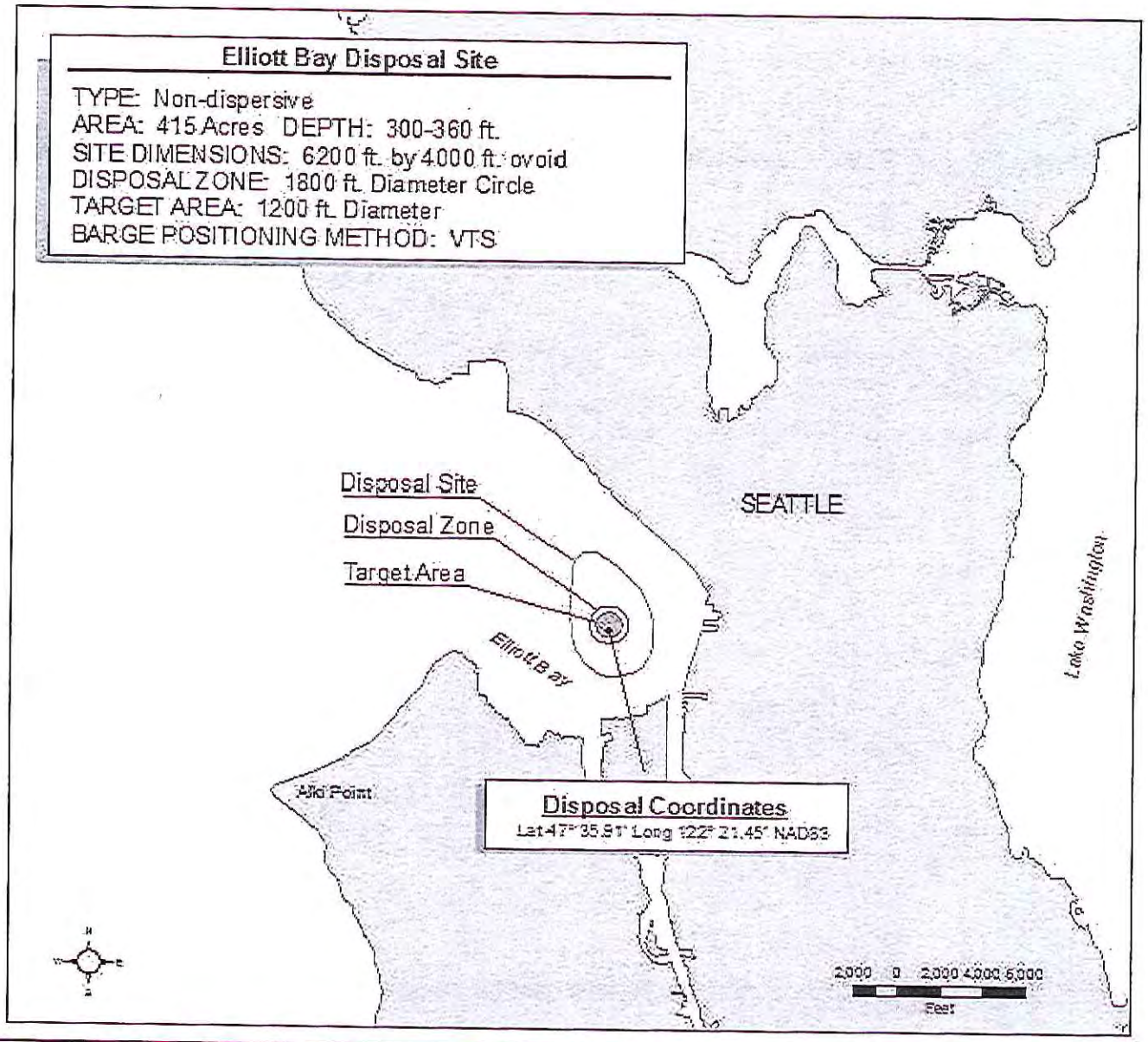
MEAN LOWER LOW WATER: 0.00'

CITY OF: SEATTLE COUNTY OF: KING STATE OF: WASHINGTON

APPLICATION BY: PORT OF SEATTLE
P.O. BOX 1209
SEATTLE, WA 98111

SHEET TITLE: NEW CROSS SECTION C
SHEET 20 of 21

DATE: MARCH 2015



NWS-2015-0269-WRD

TERMINAL 5 CARGO WHARF REHABILITATION AND BERTH DEEPENING

PURPOSE: STRENGTHEN CRANE RAIL; SLOPE STABILIZATION AND TOE WALL; BERTH DEEPENING

DATUM: MLLW = 0.0 FEET

ADJACENT PROPERTY OWNERS:
① CITY OF SEATTLE ② BNSF ③ WA DNR ④ RICHTER, EDDIE M ⑤ GENERAL STEEL SERVICES OF WASHINGTON LLC

Port of Seattle
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MEAN HIGHER HIGH WATER:	11.36'
MEAN LOWER LOW WATER:	0.00'

CITY OF: SEATTLE COUNTY OF: KING STATE OF: WASHINGTON

APPLICATION BY: PORT OF SEATTLE
P.O. BOX 1209
SEATTLE, WA 98111

SHEET TITLE: ELLIOTT BAY IN-WATER DISPOSAL SITE

SHEET 21 of 21

DATE: MARCH 2015