PORT OF TACOMA

TOTE BERTH
MAINTENANCE DREDGING
PROJECT NO. 201156.01
CONTRACT NO. 071187

PORT COMMISSIONERS:

JOHN MCCARTHY
DICK MARZANO
DEANNA KELLER
DON MEYER
KRISTIN ANG

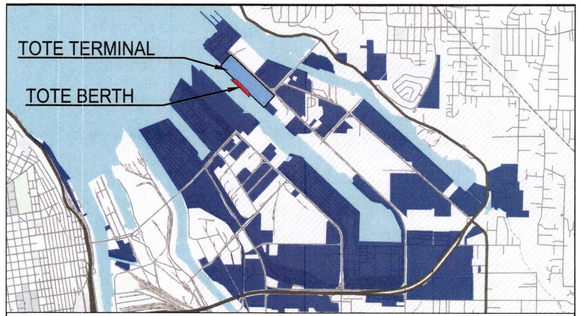
PORT STAFF:

JOHN WOLFE
NWSA Chief Executive Officer

ERIC JOHNSON
Port of Tacoma Executive Director

THAIS HOWARD, P.E.
Director of Engineering

DAVID MYERS, Architect
Project Manager



VICINITY MAP NO SCALE PORT OF TACOMA

CONSULTANT:

moffatt & nichol
600 UNIVERSITY STREET
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(206) 622-0222

DRAWING LIST

SHEET DESIGNATION	SHEET #	SHEET TITLE	REVISION
G-001	1	COVER SHEET & DRAWING LIST	0
G-010	2	GENERAL NOTES, ABBREVIATIONS & LEGEND	0
G-100	3	OFFSHORE DISPOSAL SITE LOCATION MAP	0
V-100	4	EXISTING CONDITIONS	0
V-701	5	EXISTING CONDITIONS PHOTOGRAPHS	0
C-100	6	DREDGING PLAN	0
C-201	7	DREDGING PROFILE	0
C-301	8	DREDGING SECTIONS - SHEET 1	0
C-302	9	DREDGING SECTIONS - SHEET 2	0
C-303	10	DREDGING SECTIONS - SHEET 3	0
C-501	11	DREDGING DETAILS	0

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MARK:	REVISION:	BY:	APPR:	DATE:

Kyle Landon
2024.11.11 12:19:00-08'00'

W. GERKEN 11/11/24
CHECKED BY DATE
K. LANDON 11/11/24
PROJ. ENGR DATE
PRINTED BY: klandon Nov 11, 2024
PORT ADDRESS:ONE SITCUM PLAZA
TACOMA, WA 98401-1837

APPROVED:
T. HOWARD 11/12/24
DIRECTOR ENG. DATE

TOTE BERTH
MAINTENANCE DREDGING
COVER SHEET & DRAWING LIST

6705
G-001
SH 1 OF 11

CONT/CONS: 071187	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 201156.01	DAT-HRZ: WA83-SF	VERT: MLLW 16.88' @ 944 6484 A	
PHASE: BID SET	PARCEL:	DRAWING SCALE: AS NOTED	

GENERAL NOTES

1. THESE NOTES CONTAIN GENERAL INFORMATION ONLY. THE CONTRACTOR SHALL VERIFY INFORMATION PROVIDED IN DRAWINGS WITH THE SPECIFICATIONS AND OTHER DOCUMENTS AND BRING ANY CONFLICTS TO THE ATTENTION OF THE ENGINEER BEFORE BEGINNING AFFECTED WORK. THE ENGINEER WILL RESOLVE ANY SUCH CONFLICT.
2. SITE ACCESS AND IN-WATER WORK SHALL BE COORDINATED AND SEQUENCED BY THE CONTRACTOR. IN-WATER WORK AREAS ARE SUBJECT TO TIDAL CYCLES AND WATER LEVEL FLUCTUATION. SEE TIDAL DATUMS AND SURVEY DATA FOR ADDITIONAL INFORMATION.
3. THE FACILITIES WILL BE IN OPERATION DURING THE DURATION OF THIS PROJECT. THE CONTRACTOR SHALL KEEP ITS WORKERS, MATERIAL, AND EQUIPMENT CLEAR OF ALL TERMINAL AND SHIPPING OPERATIONS AND SHALL NOT IN ANY WAY HINDER OR DISRUPT PORT OR TENANT OPERATIONS.
4. THE PROJECT SITE IS LOCATED ALONG AN ACTIVE SHIPPING CHANNEL. AT NO TIME SHALL THE CONTRACTOR OBSTRUCT OR HINDER SHIPPING ACTIVITIES WITHIN THE CHANNEL. ALL WATER BORNE CONSTRUCTION EQUIPMENT SHALL BE MOORED OUT OF THE SHIPPING CHANNEL OR AS DIRECTED BY THE PORT. NO MOORING LINES OR ANCHORS SHALL BE PLACED WITHIN THE CHANNEL. ALL TERMINAL FACILITIES SHALL BE IN OPERATIONAL ORDER BEFORE NEXT VESSEL ARRIVES.
5. ALL ELEVATIONS REFER TO MEAN LOWER LOW WATER (MLLW) ELEVATION 0.00 FT.
6. EXISTING FEATURES SHOWN ON THESE DRAWINGS ARE BASED ON EXISTING REFERENCE DRAWINGS AND RECENT FIELD SURVEYS. THE CONTRACTOR SHALL IMMEDIATELY BRING ANY CONFLICTS TO THE ENGINEER'S ATTENTION.

DREDGING

1. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO LIMIT DAMAGE TO THE EXISTING RIPRAP SLOPE AND TOE. THE CONTRACTOR SHALL NOT CONTACT THE PIER/WHARF STRUCTURE(S) WITH DREDGING EQUIPMENT BEFORE, DURING, OR AFTER DREDGING OPERATIONS.
2. A GRIZZLY SCREEN SHALL BE USED TO SEPARATE ROCKS AND DEBRIS FROM DREDGED SEDIMENT FOR UPLAND DISPOSAL. THE CONTRACTOR SHALL WASH ROCKS AND DEBRIS PRIOR TO DISPOSAL.

TIDAL DATUMS AND SURVEY DATA:

1. TIDAL AND VERTICAL DATUM INFORMATION OBTAINED FROM THE PORT MONUMENT NETWORK DRAWINGS IS AS FOLLOWS:

MEAN HIGHER HIGH WATER (MHHW)	11.80 FT
MEAN SEA LEVEL (MSL)	6.86 FT
NGVD29	5.96 FT
NAVD88	2.46 FT
MEAN LOWER LOW WATER (MLLW)	0 FT

2. DATE OF SURVEY SOURCE DATA:
   - TOPO: 2020 PIERCE COUNTY, WA LIDAR
   - BATHY: 2022 PORT OF TACOMA BATHY MODEL
3. HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 WITH THE NATIONAL SPATIAL REFERENCE SYSTEM 2011 ADJUSTMENT, NAD-83 (2011) STATE PLANE COORDINATE SYSTEM (SPCS), WASHINGTON SOUTH ZONE.
4. VERTICAL DATUM: PORT DATUM MEAN LOWER LOW WATER (MLLW) EPOCH 1983-2001.
5. UNITS: U.S. FEET

GENERAL NOTES

1. PROJECT DATUM AND SURVEY CONTROL: REFER TO PORT OF TACOMA MONUMENT NETWORK DRAWINGS AND DATASHEETS.
2. DISPOSE OF DREDGING MATERIALS AS DIRECTED IN SPECIFICATIONS.
3. REFER TO THE SPECIFICATIONS FOR CONSTRUCTION TOLERANCES.
4. IN THE EVENT OF CONFLICTING REQUIREMENTS BETWEEN THE CONTRACT DRAWINGS, GENERAL NOTES, AND SPECIFICATIONS, THE MORE STRINGENT SHALL CONTROL AS DETERMINED BY THE ENGINEER.
5. FOLLOW FEDERAL, STATE, AND LOCAL SAFETY REGULATIONS. METHODS OF CONSTRUCTION ARE THE CONTRACTOR'S RESPONSIBILITY.
6. REVIEW AND BECOME FAMILIAR WITH THE PORT OBTAINED PERMITS. OBTAIN ALL OTHER FEDERAL, STATE, OR LOCAL DEPARTMENT REQUIRED PERMITS AFFECTED BY THE WORK NOT PREVIOUSLY OBTAINED BY THE PORT.
7. ABIDE BY APPLICABLE FEDERAL, STATE, AND LOCAL ENVIRONMENTAL PROTECTION STANDARDS, PERMITS, LAWS, AND REGULATIONS.
8. PLACE CONSTRUCTION DEBRIS CONTROL DEVICES AS NECESSARY TO PREVENT DEBRIS FROM ENTERING THE WATER, AND AIRBORNE MATERIALS FROM LEAVING THE IMMEDIATE VICINITY OF THE SITE. CLEANUP ANY MATERIALS DEPOSITED OUTSIDE AND WITHIN THE WORK AREA.
9. DISPOSE OF DEBRIS OFF THE PROJECT SITE IN A PERMITTED LANDFILL.
10. COORDINATE ACCESS TO THE SITE WITH THE PROJECT ENGINEER.
11. VERIFY DIMENSIONS AND CONDITIONS FOR COMPATIBILITY BEFORE PROCEEDING WITH CONSTRUCTION OR MATERIAL PROCUREMENT. BRING ANY DISCREPANCIES IN DIMENSIONS OR CONDITIONS TO THE ATTENTION OF THE PROJECT ENGINEER BEFORE PROCEEDING. DO NOT BEGIN CONSTRUCTION UNTIL DISCREPANCIES HAVE BEEN RESOLVED BY THE PROJECT ENGINEER.
12. CONTRACTOR-INITIATED CHANGES MUST BE SUBMITTED IN WRITING TO THE PROJECT ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.
13. CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL EXISTING SURFACES AND TEMPORARY AND/OR PERMANENT STRUCTURES TO REMAIN.
14. DO NOT SCALE DRAWINGS.

PERMIT REQUIREMENTS AND BMPS:

COMPLY WITH PROJECT PERMIT CONDITIONS AND APPLICABLE BMPS LISTED BELOW AND IDENTIFIED IN THE SPECIFICATIONS AND WATER QUALITY PROTECTION AND MONITORING PLAN.

DURING ANY IN-WATER AND EMBANKMENT WORK, USE CONTAINMENT BOOMS TO SURROUND THE WORK AREAS OR SEPARATE EMBANKMENT WORK FROM SURFACE WATER. THE BOOMS MUST CONTAIN AND COLLECT ANY OILY OR SIMILAR MATERIALS RELEASED AS WELL AS FLOATING DEBRIS. OIL-ABSORBENT MATERIALS MUST BE EMPLOYED IMMEDIATELY IF VISIBLE OILY OR SIMILAR MATERIAL IS OBSERVED. ACCUMULATED DEBRIS MUST BE COLLECTED DAILY AND DISPOSED OF AT A PERMITTED UPLAND SITE APPROVED BY THE PORT.

WORK BARGES MUST NOT BE GROUNDED DURING CONSTRUCTION.

EXCESS AND/OR WASTE MATERIALS GENERATED DURING CONSTRUCTION MUST NOT BE DISPOSED OF IN OR ALLOWED TO ENTER STATE WATERS. EXCESS OR WASTE MATERIALS MUST BE COLLECTED AND RECYCLED OR DISPOSED OF AT A PERMITTED UPLAND FACILITY APPROVED BY THE PORT.

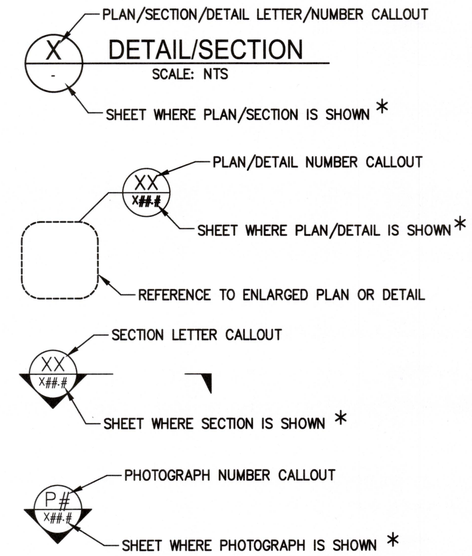
WATER QUALITY STANDARDS AND PROCEDURES THAT LIMIT THE IMPACT OF POLLUTANTS MUST BE OBSERVED (WAC173-201A-210(1)(E)(I)).

THE ECOLOGY APPROVED WATER QUALITY MONITORING PLAN MUST BE IMPLEMENTED DURING ALL DREDGING AS PART OF THE ECOLOGY'S 401 WATER QUALITY CERTIFICATION FOR DREDGING AND AS PART OF COMPLIANCE WITH THE WASHINGTON STATE WATER QUALITY STANDARDS (173-201A WAC).

ABBREVIATIONS

&	AND
ø	DIAMETER
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APPROX	APPROXIMATE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
BOT	BOTTOM
CF	CUBIC FEET
CL	CENTER LINE
CLR	CLEAR
CONC	CONCRETE
CONN	CONNECTION
CONT	CONTINUOUS
DBL	DOUBLE
DEMO	DEMOLISH
DIA	DIAMETER
DWG	DRAWING
EHW	EXTREME HIGH WATER
EL	ELEVATION
ELW	EXTREME LOW WATER
EXIST, (E)	EXISTING
HORIZ	HORIZONTAL
IN	INCH
LOC'N	LOCATION
MHHW	MEAN HIGHER HIGH WATER
MLLW	MEAN LOWER LOW WATER
MSL	MEAN SEA LEVEL
NO	NUMBER
NOM	NOMINAL
OC	ON CENTER
OD	OVERDEPTH
PCF	POUNDS PER CUBIC FOOT
PREP	PREPARE, PREPARATION
REINF	REINFORCEMENT
REQ'D	REQUIRED
SHT	SHEET
SIM	SIMILAR
SPA	SPACE, SPACES
THRU	THROUGH
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
VERT	VERTICAL
W/	WITH

REFERENCE CALLOUTS



NOTES:

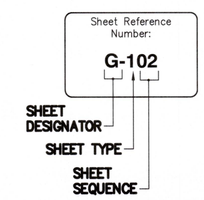
1. USE LETTERS TO DESIGNATE SECTIONS & NUMBERS TO DESIGNATE PLANS/DETAILS.

* DENOTES:
DASH (-) INDICATES SECTION OR DETAIL FROM SAME SHEET

SHEET TYPE DESIGNATORS	
0	GENERAL (COVER SHEET, LEGEND, NOTES)
1	PLANS (HORIZONTAL VIEWS)
2	ELEVATIONS (NOT TYPICALLY USED)
3	SECTIONS (OVERALL VIEWS)
4	LARGE-SCALE VIEWS (PLANS, SECT. OR ELEV. - NOT DETAILS)
5	DETAILS (MAY BE PLAN, SECT. OR ELEV. VIEWS)
6	SCHEDULES
7	PHOTOS
8	USER DEFINED
9	3D ISOMETRIC

DISCIPLINE DESIGNATORS	
DISCIPLINE	DESIGNATOR
GENERAL	G
EXISTING CONDITIONS	V
DREDGING	C

REVISION NUMBERING	
A00, A01...	PRE-BID SUBMITTALS
B00, B01...	BID SUBMITTALS
000, 001...	CONSTRUCTION SUBMITTALS



SHEET NUMBERING

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

moffatt & nichol
600 UNIVERSITY STREET SUITE 810 SEATTLE, WA 98101 (206) 682-0202

MARK: | REVISION: | BY: | APPR: | DATE:

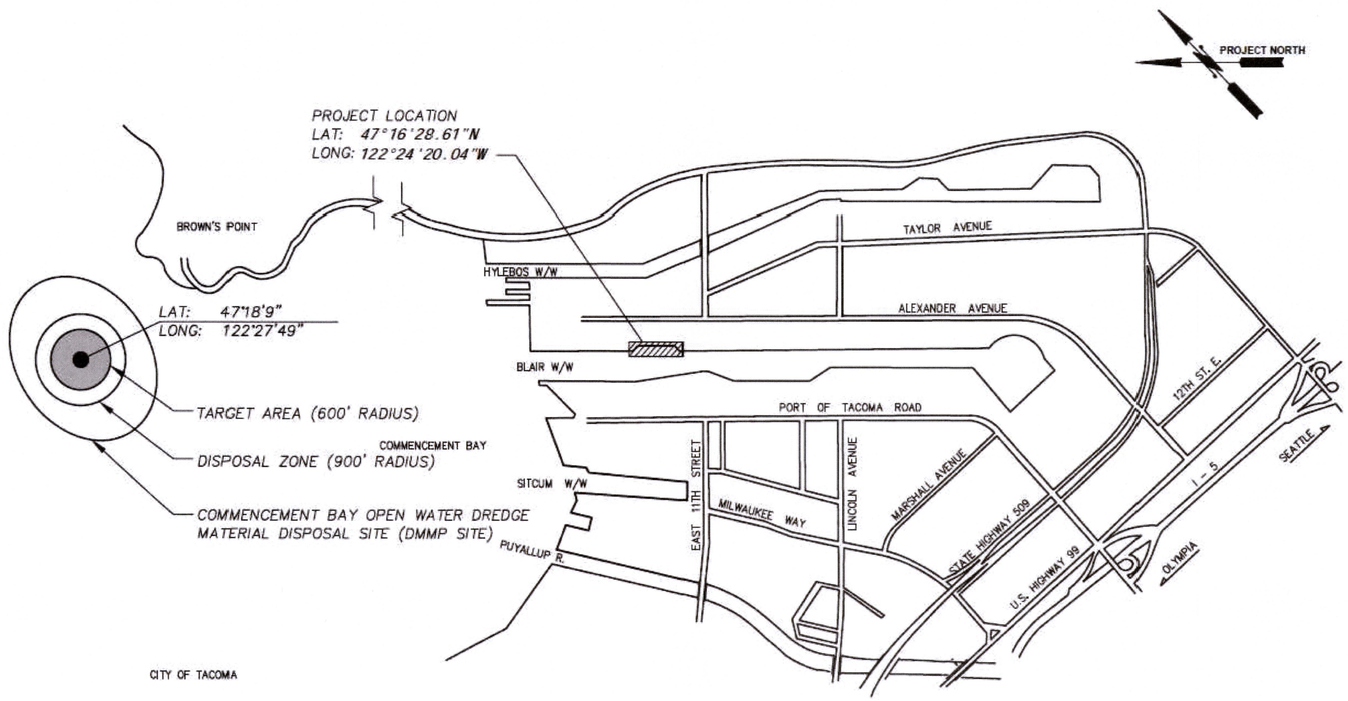
Kyle Landon
2024.11.11 12:19:01-08'00'

W. GERKEN 11/11/24 CHECKED BY DATE
K. LANDON 11/11/24 PROJ. ENGR DATE
APPROVED: T. HOWARD 11/14/24 DIRECTOR ENG. DATE
PRINTED BY: klandon Nov 11, 2024
PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837

TOTE BERTH MAINTENANCE DREDGING
GENERAL NOTES, ABBREVIATIONS & LEGEND

6705
G-010
SH 2 OF 11

CONT/CONS: 071187	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 201156.01	DAT-HRZ: WA83-SF	VERT: MLLW 16.88' @ 944 6484 A	
PHASE: BID SET	PARCEL:	DRAWING SCALE: AS NOTED	



NO SCALE

NOTES:

1. THE DMMP DISPOSAL SITE IS SHOWN CLOSER THAN THE ACTUAL SITE DISTANCE.
2. COMMENCEMENT BAY IS A NON-DISPERSIVE, UNCONFINED, OPEN-WATER DREDGE MATERIAL DISPOSAL (DUMP) SITE.
3. OPEN WATER DISPOSAL SITE WILL BE UTILIZED FOR MATERIAL PERMITTED FOR THAT LOCATION. DREDGE MATERIAL THAT IS NOT PERMITTED FOR OPEN WATER DISPOSAL WILL BE TAKEN TO AN APPROVED FACILITY.

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TACOMA, WA 98401-1837

TOTE BERTH
MAINTENANCE DREDGING
OFFSHORE DISPOSAL SITE LOCATION MAP

6705
G-100
SH 3 OF 11

CONT/CONS: 071187	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 201156.01	DAT-HRZ: WA83-SF	VERT: MLLW 16.88' @ 944 6484 A	
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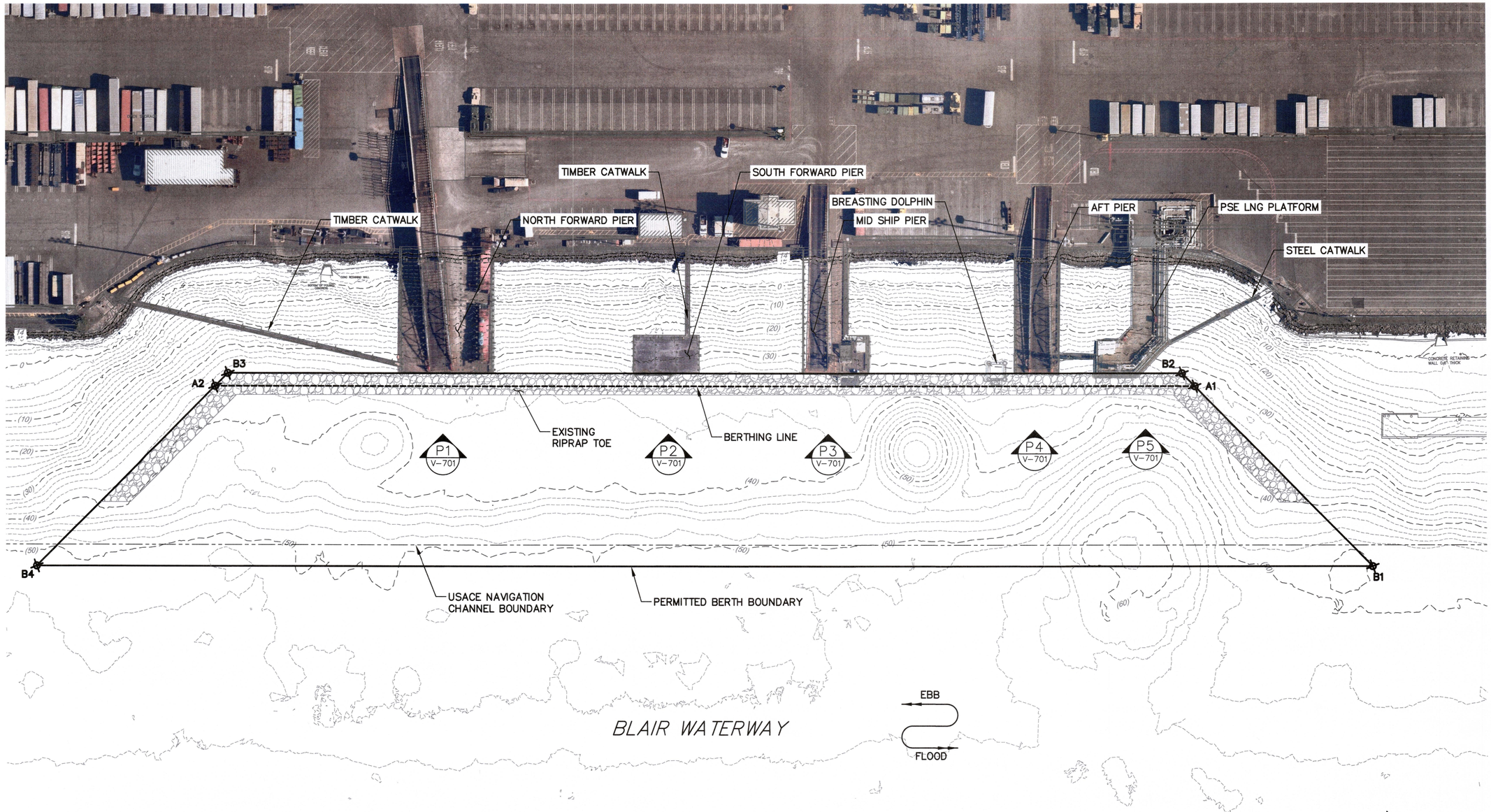

PERMITTED BERTH CONTROL POINT TABLE				
POINT	NORTHING	EASTING	LATITUDE	LONGITUDE
A1	713401.9	1167783.1	N47° 16' 26.16"	W122° 24' 14.72"
A2	714044.9	1167119.5	N47° 16' 32.34"	W122° 24' 24.57"
B1	713164.3	1167786.8	N47° 16' 23.81"	W122° 24' 14.58"
B2	713418.8	1167782.8	N47° 16' 26.32"	W122° 24' 14.73"
B3	714045.1	1167136.5	N47° 16' 32.35"	W122° 24' 24.32"
B4	714041.1	1166881.9	N47° 16' 32.25"	W122° 24' 28.01"

PROJECT NORTH

50' 0' 50' 100'
SCALE: 1"=50'

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TOTE BERTH
MAINTENANCE DREDGING
EXISTING CONDITIONS

TOWNSHIP: 21N
RANGE: 3E
SECTION: 27
DAT-HRZ: WA83-SF
VERT: MLLW 16.88' @ 944 6484 A
PARCEL:
DRAWING SCALE: AS NOTED

6705
V-100
SH 4 OF 11

CONT/CONS: 071187
M. ID: 201156.01
PHASE: BID SET

NOTES:

1. GROUND PHOTOS SHOW EXISTING CONDITIONS AT TIME OF THE PHOTO. CONDITIONS MAY DIFFER AT TIME OF CONSTRUCTION. TYPICAL PILE SPACING IS APPROXIMATE AND MAY VARY OVER THE STRUCTURE.

2. CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF SITE CONDITIONS AND SELECTION OF APPROPRIATE EQUIPMENT.

P1 / V-100 **NORTH FORWARD PIER, LOOKING NORTHEAST**
IMAGE DATE: 20 SEPTEMBER 2024

P2 / V-100 **SOUTH FORWARD PIER, LOOKING NORTHEAST**
IMAGE DATE: 20 SEPTEMBER 2024

P3 / V-100 **MID SHIP PIER, LOOKING NORTHEAST**
IMAGE DATE: 20 SEPTEMBER 2024

P4 / V-100 **AFT PIER, LOOKING NORTHEAST**
IMAGE DATE: 20 SEPTEMBER 2024

P5 / V-100 **LNG PIER, LOOKING NORTHEAST**
IMAGE DATE: 20 SEPTEMBER 2024

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APPROVED: T. HOWARD 11/13/24
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TOTE BERTH
MAINTENANCE DREDGING
EXISTING CONDITIONS PHOTOGRAPHS

6705
V-701
SH 5 OF 11

CONT/CONS: 071187	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
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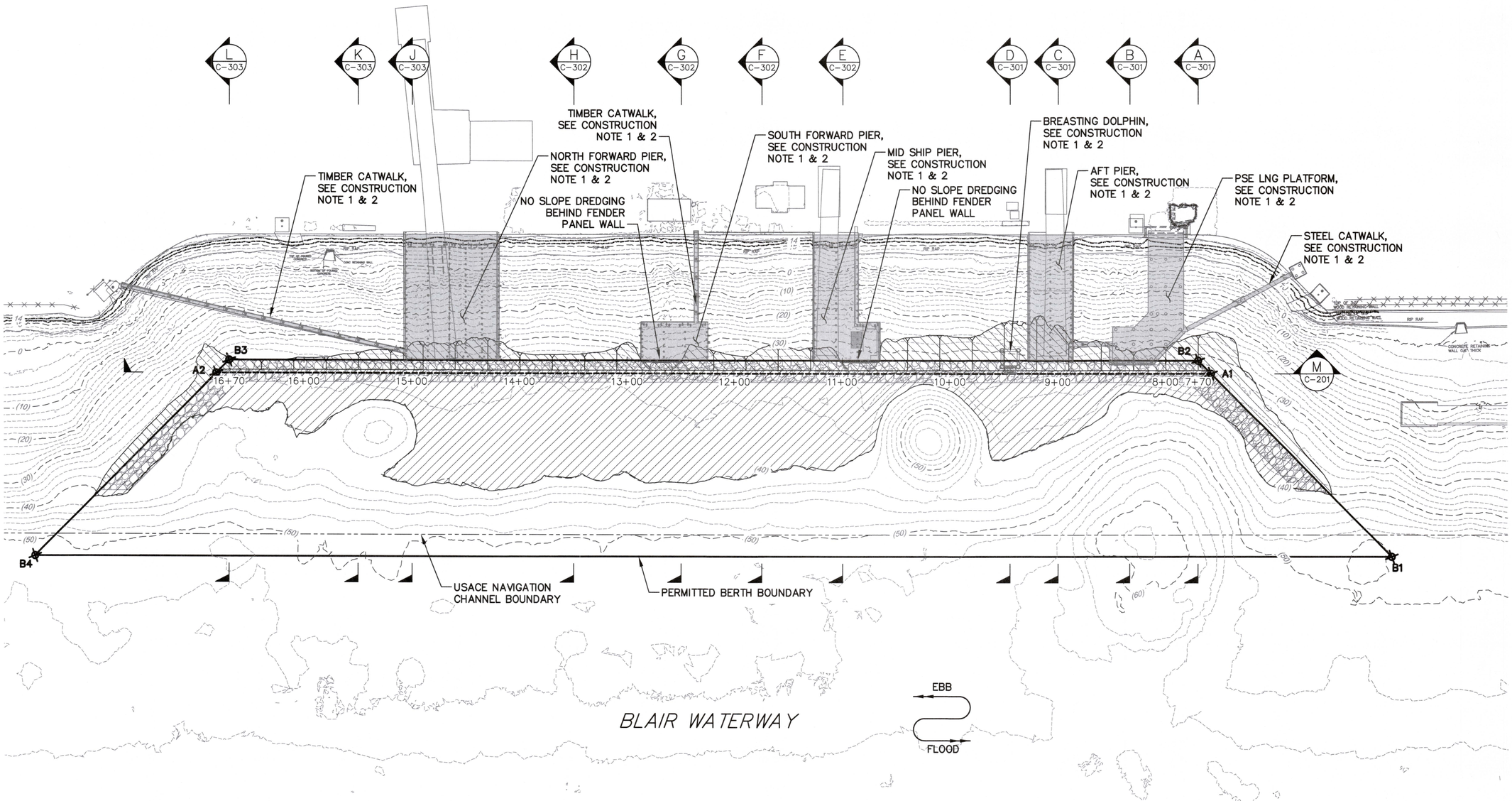

CONSTRUCTION NOTES

1. ALL UPLAND AND/OR IN-WATER STRUCTURES IDENTIFIED SHALL REMAIN AND BE PROTECTED.
2. STRUCTURES ARE SHOWN FOR SPATIAL REFERENCE ONLY FOR DETAILED INFORMATION PERTAINING TO DISCRETE STRUCTURE INFORMATION, SEE REFERENCE DOCUMENTS PROVIDED ON THE PORT WEBSITE.

STATION LINE		
STA	NORTHING	EASTING
8+00	713433.6308	1167754.7266
16+00	713990.3326	1167180.1980

LEGEND

- PERMITTED BERTH BOUNDARY
- BERTHING LINE
- PROPOSED OPEN WATER DREDGING AREA (EL. -40.0')
- PROPOSED SLOPE DREDGING AREA
- EXISTING CONTOURS, MAJOR (10' INTERVAL)
- EXISTING CONTOUR, MINOR (2' INTERVAL)
- EXISTING RIPRAP TOE (TO BE PROTECTED)

PROJECT NORTH

50' 0' 50' 100'

SCALE: 1"=50'

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TOTE BERTH MAINTENANCE DREDGING
DREDGING PLAN

TOWNSHIP: 21N | RANGE: 3E | SECTION: 27
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PARCEL: | DRAWING SCALE: AS NOTED

6705
C-100
SH 6 OF 11

CONT/CONS: 071187
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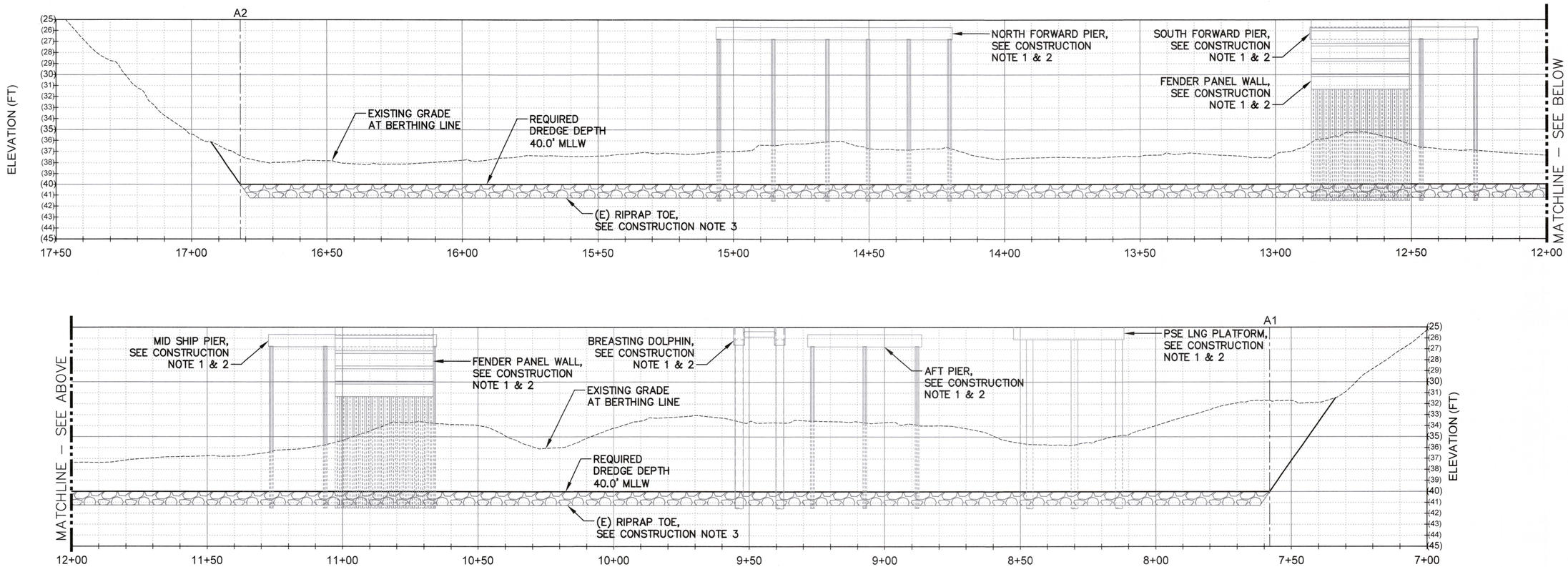
PHASE: BID SET



M / C-100 DREDGING PROFILE

SCALE V: 1" = 5'
H: 1" = 20'

CONSTRUCTION NOTES

1. ALL UPLAND AND/OR IN-WATER STRUCTURES IDENTIFIED SHALL REMAIN AND BE PROTECTED.
2. STRUCTURES ARE SHOWN FOR SPATIAL REFERENCE ONLY. CONTRACTOR TO VERIFY LOCATION OF PIER AND PIER ELEMENTS. FOR DETAILED INFORMATION PERTAINING TO DISCRETE STRUCTURE INFORMATION, SEE REFERENCE DOCUMENTS PROVIDED ON THE PORT WEBSITE.
3. EXISTING ROCK TOE DESIGNED TO –40' MLLW AND WILL VARY OVER THE SITE. THE ACTUAL ELEVATION OR SPATIAL EXTENT HAS NOT BEEN VERIFIED. FOR DETAILED INFORMATION, SEE REFERENCE DOCUMENTS PROVIDED ON THE PORT WEBSITE.

5' 0' 5' 10'
VERT. SCALE: 1"=5'

20' 0' 20' 40'
HORIZ. SCALE: 1"=20'

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2024.11.11 12:19:02-08'00'

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TOTE BERTH MAINTENANCE DREDGING
DREDGING PROFILE

6705
C-201
SH 7 OF 11

CONT/CONS: 071187	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
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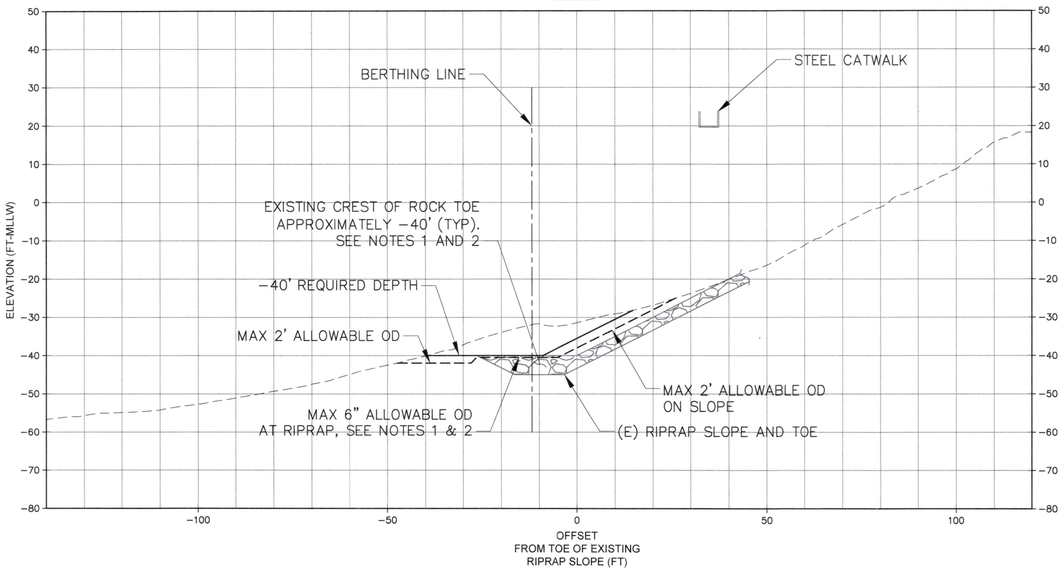
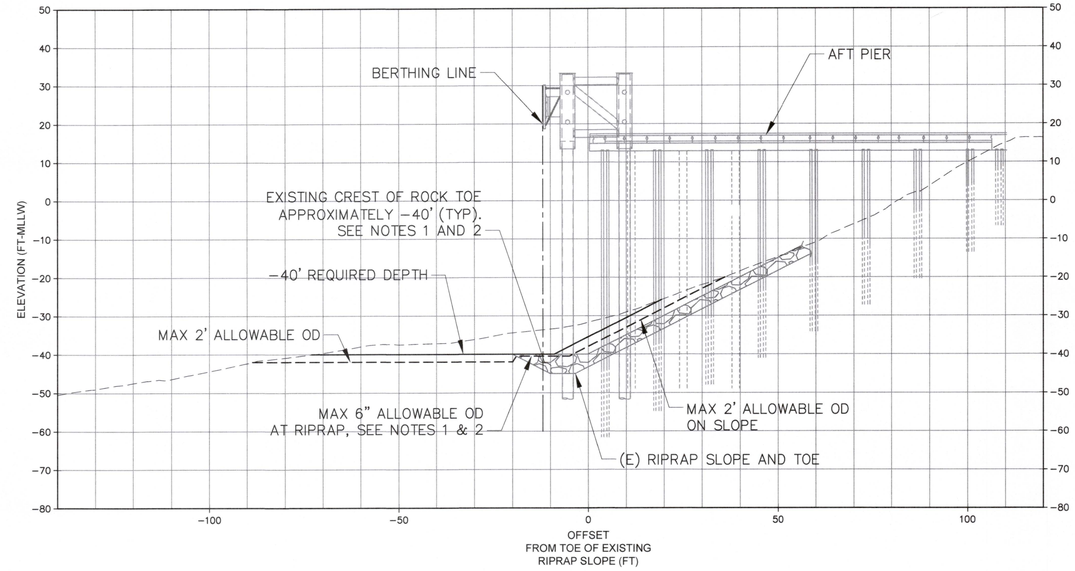
BINDING EDGE

7+70



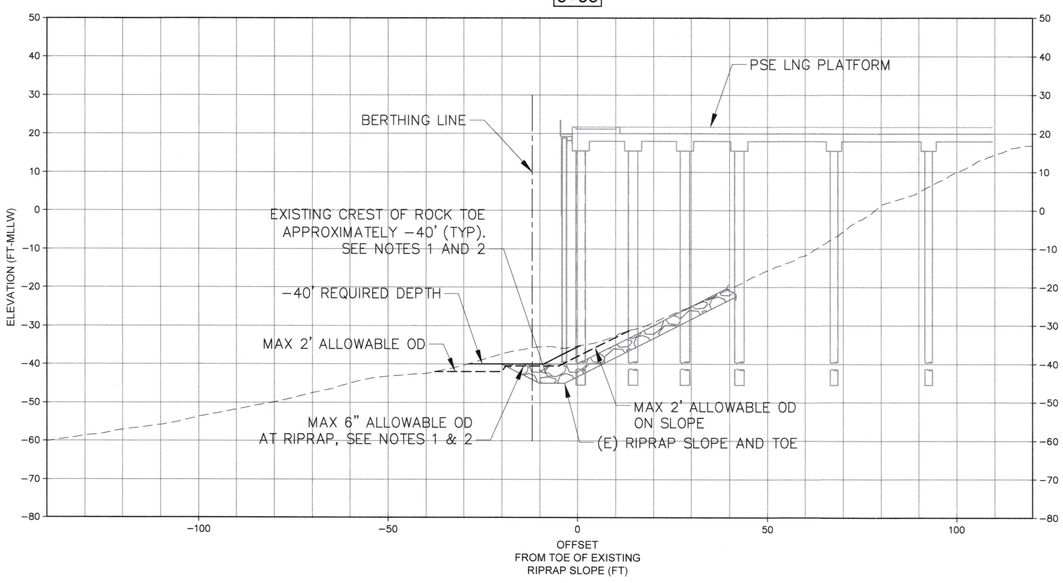
A C-100 **SECTION**
SCALE: 1" = 20'

9+00



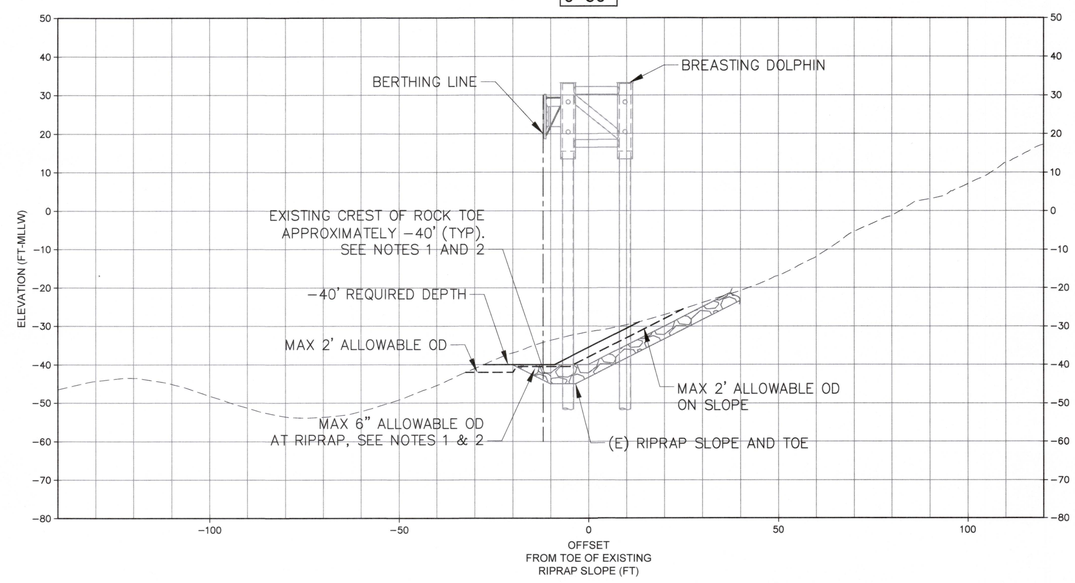
C C-100 **SECTION**
SCALE: 1" = 20'

8+33



B C-100 **SECTION**
SCALE: 1" = 20'

9+50



D C-100 **SECTION**
SCALE: 1" = 20'

NOTES

1. EXISTING RIPRAP TOE DESIGNED TO −40' MLLW AND WILL VARY OVER THE SITE. THE ACTUAL ELEVATION OR SPATIAL EXTENT HAS NOT BEEN VERIFIED.
2. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO LIMIT DAMAGE TO THE EXISTING RIPRAP SLOPE AND TOE. ALLOWABLE OVERDEPTH IS 6 INCHES AND UNPAID IN REGIONS WHERE EXISTING ROCK TOE IS ANTICIPATED TO BE ENCOUNTERED AS SHOWN ON DRAWINGS.
3. PROTECT IN PLACE ALL EXISTING STRUCTURES.
4. SEE SHEET C−501 FOR DETAILED DREDGE TEMPLATE.

20' 0' 20' 400'
SCALE: 1"=20'

Port of Tacoma
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moffatt & nichol
600 UNIVERSITY STREET
SUITE 1700
SEATTLE, WA 98101
(206) 622-0022

MARK:	REVISION:	BY:	APPR:	DATE:

Kyle Landon
2024.11.11 12:19:02-08'00'

W. GERKEN 11/11/24
CHECKED BY DATE
K. LANDON 11/11/24
PROJ. ENGR DATE
PRINTED BY: klandon Nov 11, 2024
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401−1837

APPROVED:
T. HOWARD 11/12/24
DIRECTOR ENG. DATE

TOTE BERTHS
MAINTENANCE DREDGING
DREDGING SECTIONS - SHEET 1

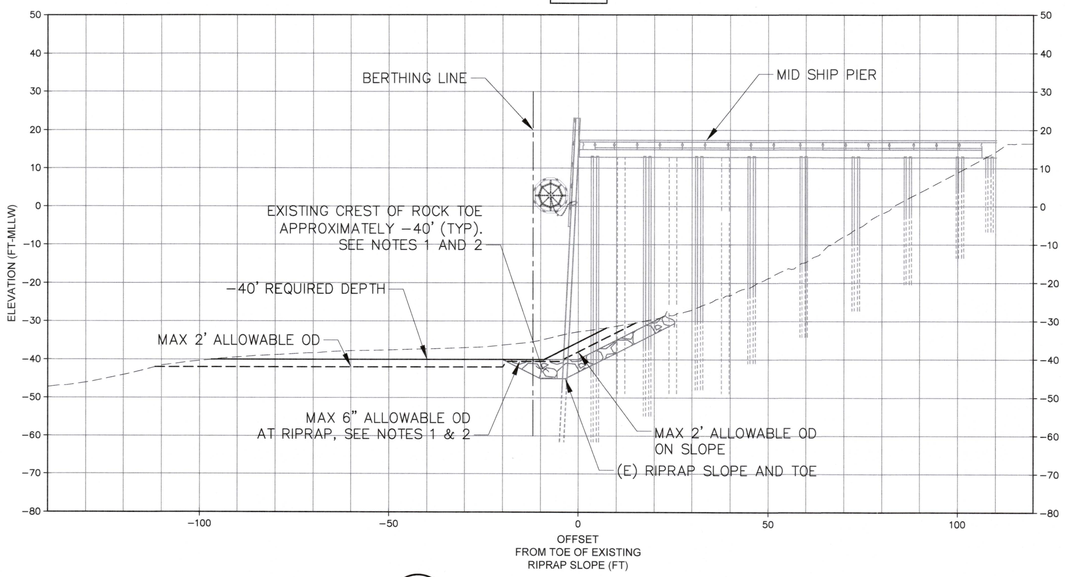
TOWNSHIP: 21N | RANGE: 3E | SECTION: 27
DAT−HRZ: WA83−SF | VERT: MLLW 16.88' @ 944 6484 A
PARCEL: | DRAWING SCALE: AS NOTED

6705
C-301
SH 8 OF 11

CONT/CONS: 071187
M. ID: 201156.01
PHASE: BID SET

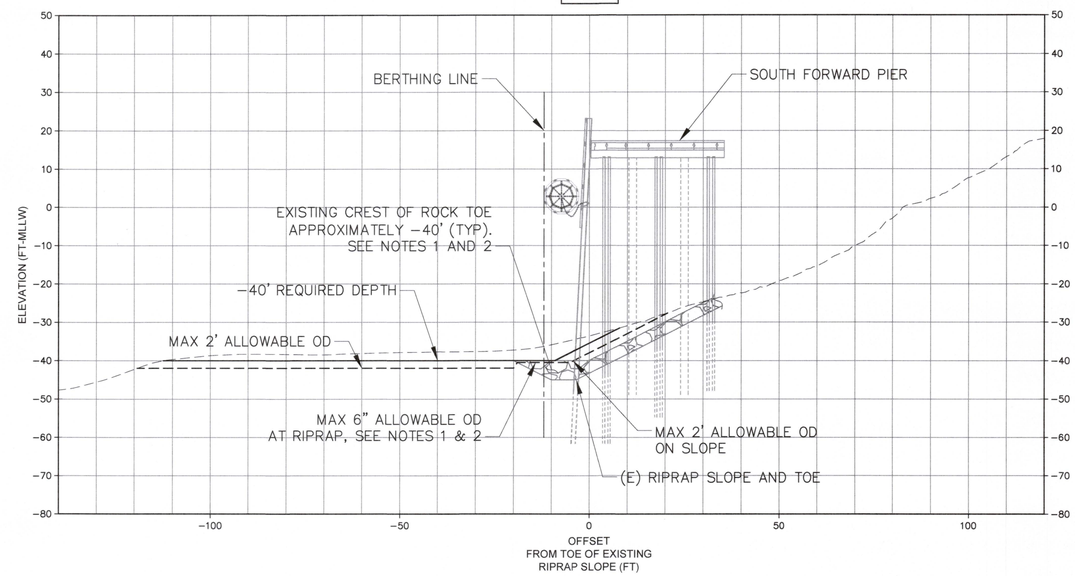
PORT OF TACOMA FILE: Q:\SEA\10909-12\20 CADD_Active_Plans\201156.01-C301

11+00



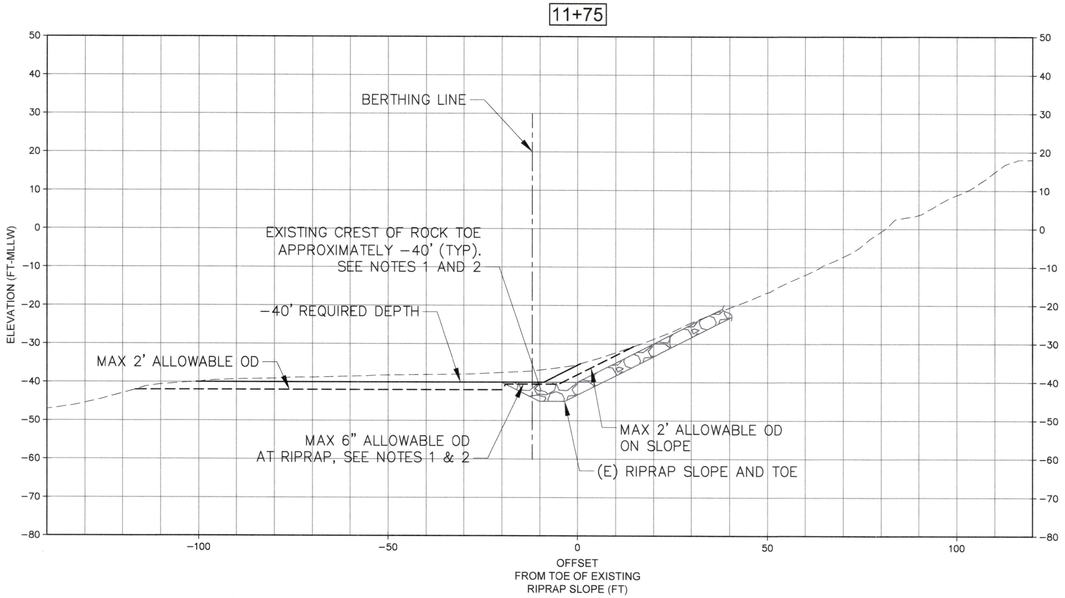
E / C-100 **SECTION**
SCALE: 1" = 20'

12+50



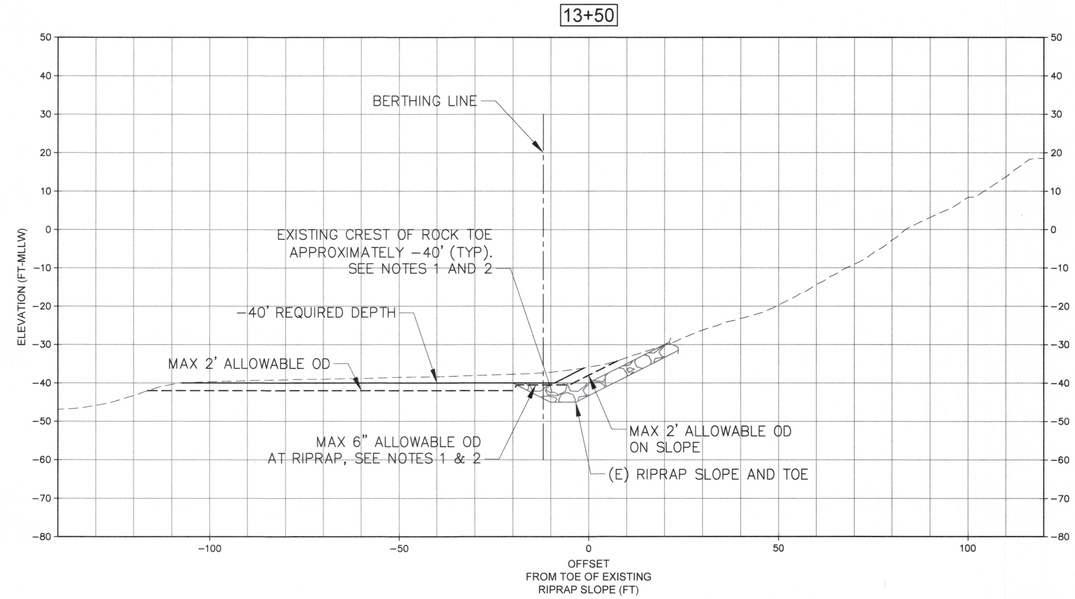
G / C-100 **SECTION**
SCALE: 1" = 20'

11+75



F / C-100 **SECTION**
SCALE: 1" = 20'

13+50



H / C-100 **SECTION**
SCALE: 1" = 20'

NOTES

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4. SEE SHEET C−501 FOR DETAILED DREDGE TEMPLATE.

20' 0' 20' 400'
SCALE: 1"=20'

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MARK:	REVISION:	BY:	APPR:	DATE:

Kyle Landon
2024.11.11 12:19:02-08'00'

W. GERKEN 11/11/24
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K. LANDON 11/11/24
PROJ. ENGR DATE

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T. HOWARD 11/12/24
DIRECTOR ENG. DATE

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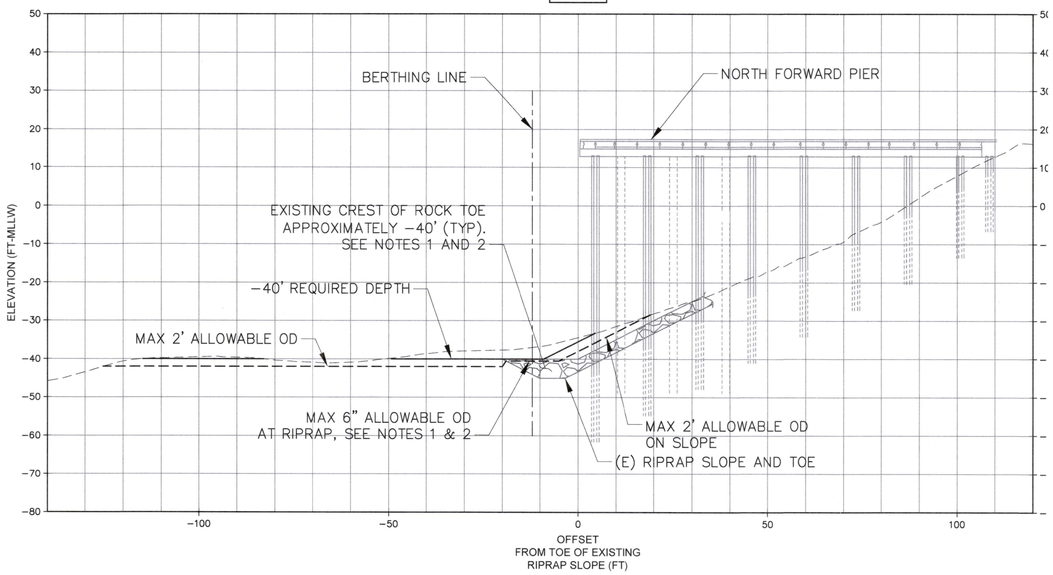
TOTE BERTHS
MAINTENANCE DREDGING
DREDGING SECTIONS - SHEET 2

6705
C-302
SH 9 OF 11

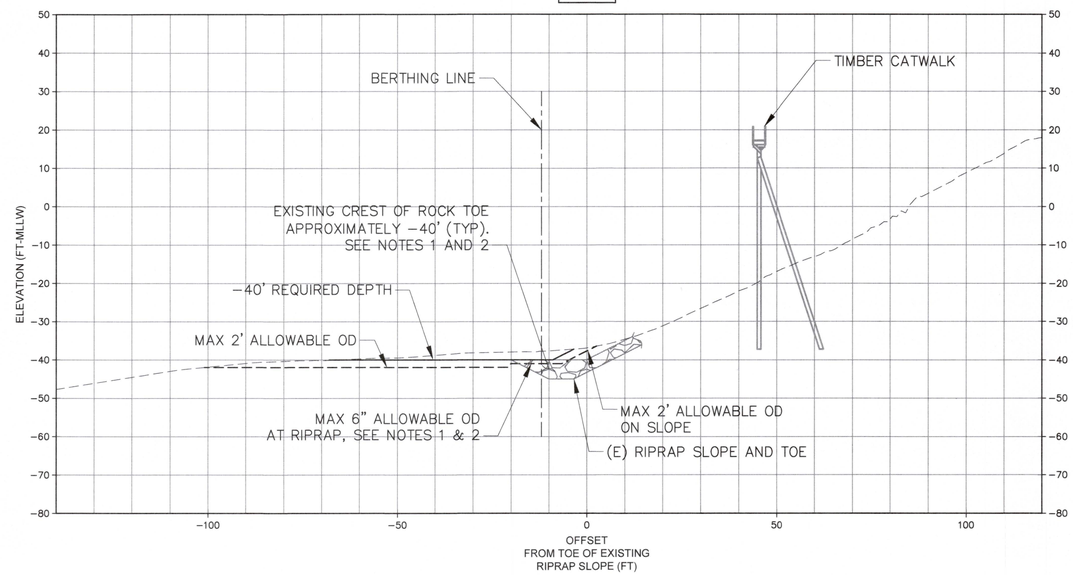
CONT/CONS: 071187	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 201156.01	DAT−HRZ: WA83−SF	VERT: MLLW 16.88' @ 944 6484 A	
PHASE: BID SET	PARCEL:	DRAWING SCALE: AS NOTED	

15+00



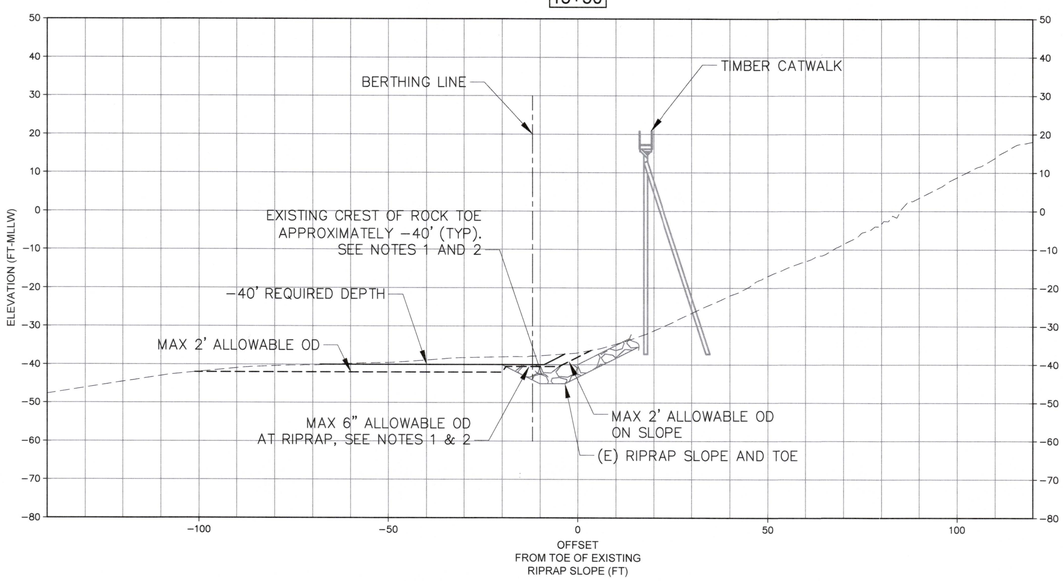
J C-100 **SECTION**
SCALE: 1" = 20'

16+00



L C-100 **SECTION**
SCALE: 1" = 20'

15+50



K C-100 **SECTION**
SCALE: 1" = 20'

NOTES

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4. SEE SHEET C−501 FOR DETAILED DREDGE TEMPLATE.

20' 0' 20' 400'
SCALE: 1"=20'

Port of Tacoma
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moffatt & nichol
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SUITE 1010
SEATTLE, WA 98101
(206) 622-0222

MARK:	REVISION:	BY:	APPR:	DATE:

Kyle Landon
2024.11.11 12:19:02-08'00'

W. GERKEN 11/11/24
CHECKED BY DATE
K. LANDON 11/11/24
PROJ. ENGR DATE
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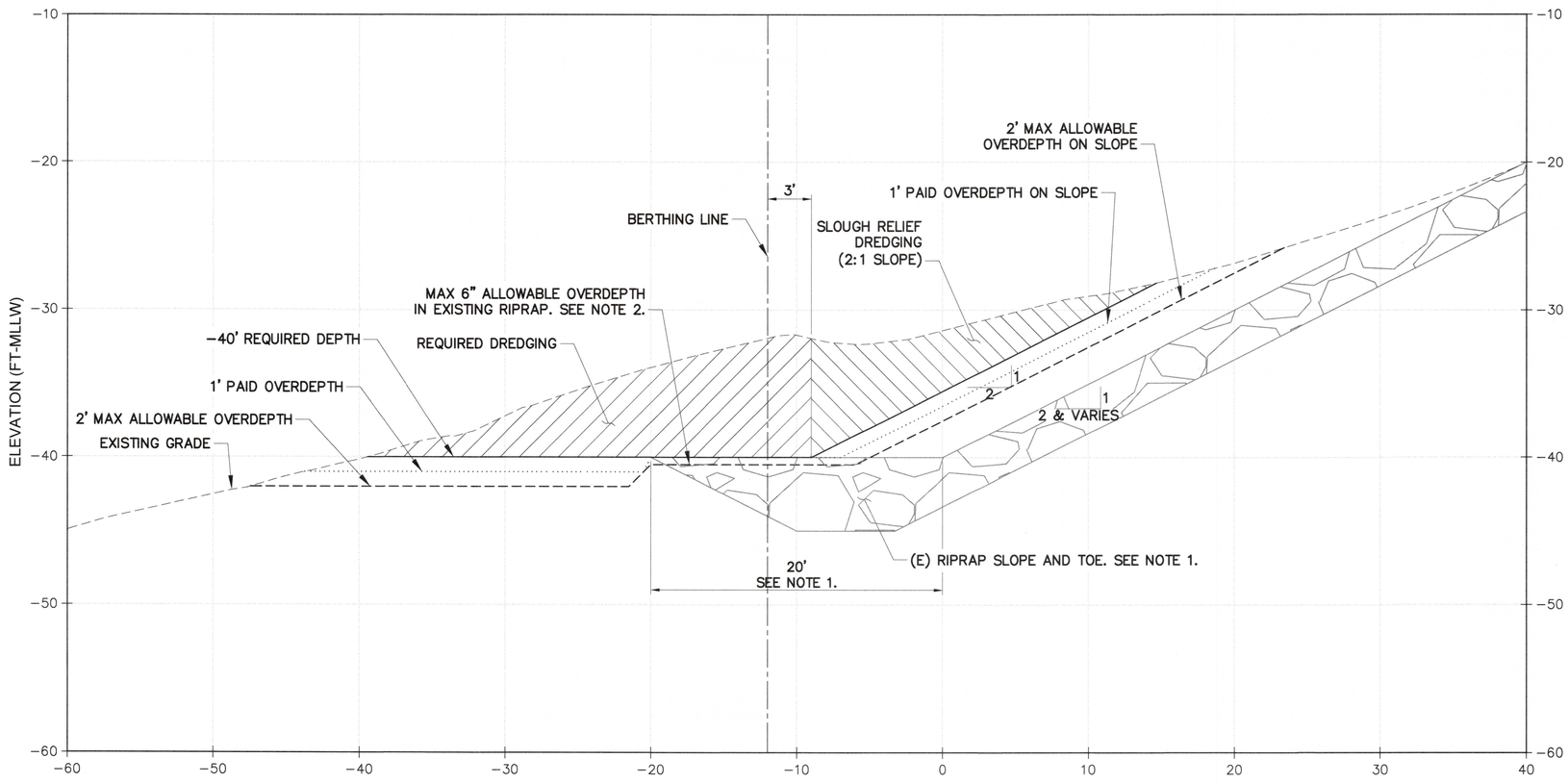
APPROVED:
T. HOWARD 11/12/24
DIRECTOR ENG. DATE

TOTE BERTH
MAINTENANCE DREDGING
DREDGING SECTIONS - SHEET 3

TOWNSHIP: 21N | RANGE: 3E | SECTION: 27
DAT−HRZ: WA83−SF | VERT: MLLW 16.88' @ 944 6484 A
PARCEL: | DRAWING SCALE: AS NOTED

6705
C-303
SH 10 OF 11

CONT/CONS: 071187
M. ID: 201156.01
PHASE: BID SET



A C-501 TYPICAL SECTION
SCALE: 1" = 5'

NOTES

1. EXISTING RIPRAP TOE DESIGNED TO -40' MLLW AND WILL VARY OVER THE SITE. THE ACTUAL ELEVATION OR SPATIAL EXTENT HAS NOT BEEN VERIFIED.
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5' 0' 5' 10'
SCALE: 1"=5'

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MARK:	REVISION:	BY:	APPR:	DATE:

Kyle Landon
2024.11.11 12:19:02-08'00'

W. GERKEN 11/11/24
CHECKED BY DATE
K. LANDON 11/11/24
PROJ. ENGR DATE
Nov 11, 2024
CUM PLAZA
, WA 98401-1837

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DIRECTOR ENG. DATE

TOTE BERTH
MAINTENANCE DREDGING
DREDGING DETAILS

6705
C-501
SH 11 OF 11

CONT/CONS: 071187	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 201156.01	DAT-HRZ: WA83-SF	VERT: MLLW 16.88' @ 944 6484 A	
PHASE: BID SET	PARCEL:	DRAWING SCALE: AS NOTED	

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