

90% Remedial Design

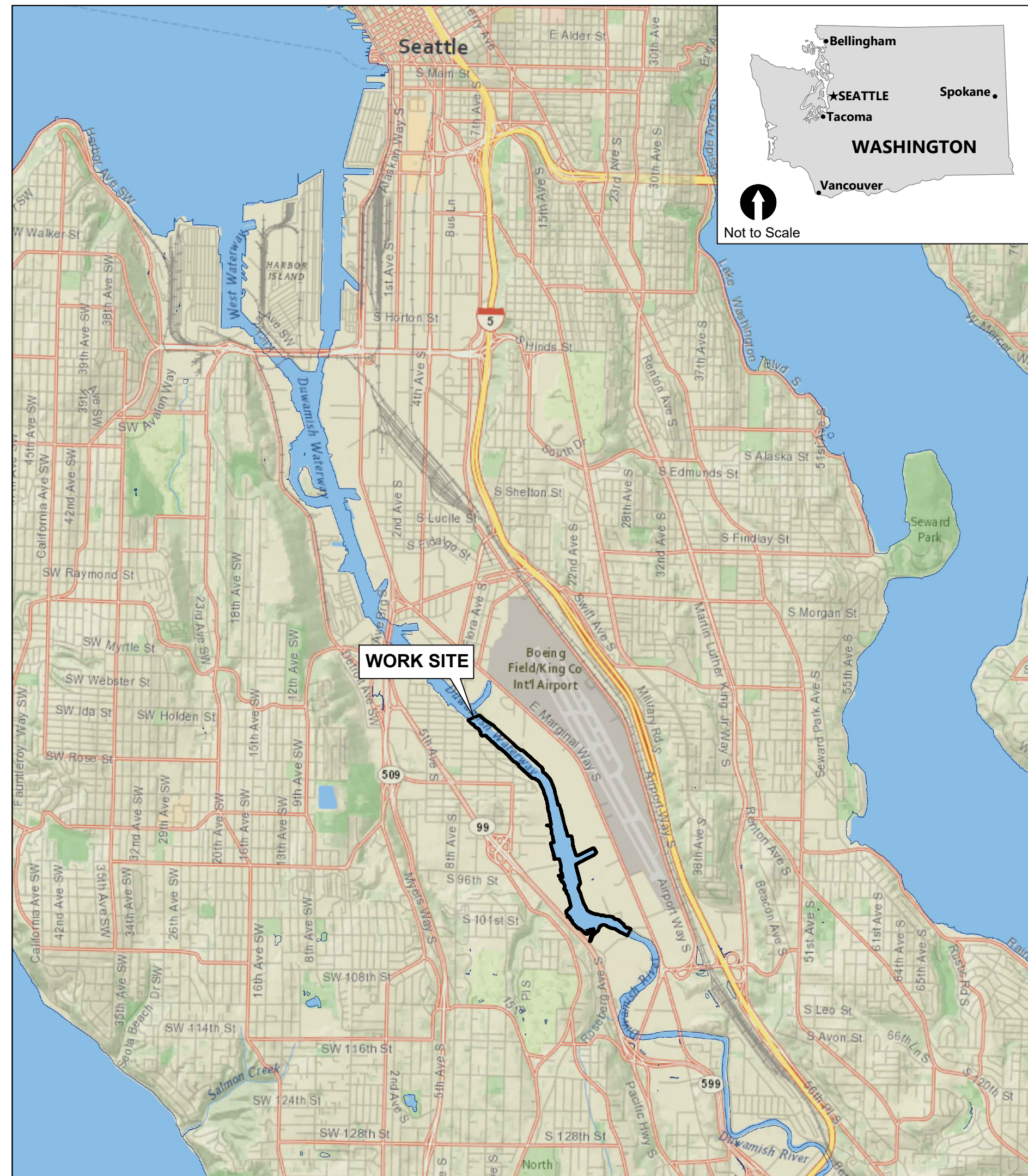
Volume III

Pre-Final (90%) Drawings

90% DESIGN SUBMITTAL

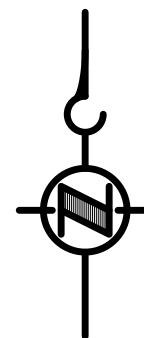
LOWER DUWAMISH WATERWAY UPPER REACH

LOWER DUWAMISH WATERWAY GROUP



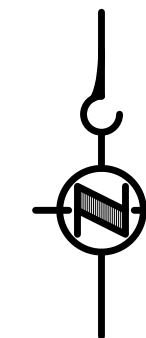
SOURCE: NATIONAL GEOGRAPHIC WORLD MAP - NATIONAL GEOGRAPHIC, ESRI, GARMIN, HERE, UNEP-WCMC, USGS, NASA, ESA, METI, NRCAN, GEBCO, NOAA, INCREMENT P CORP.

VICINITY MAP
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SCALE IN FEET



SOURCE: AERIAL PHOTOGRAPH FROM ©MICROSOFT, BING MAPS

LOCATION MAP
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SCALE IN FEET

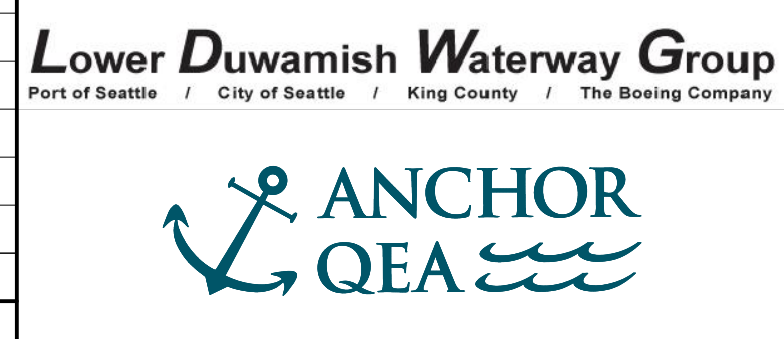


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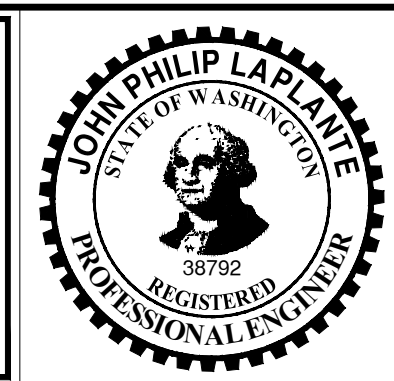
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PLOTTED: Jul 21, 2023 - 11:07:08pm By: tgriga

NO	REVISION DESCRIPTION	BY	APVD	DATE



PRE-FINAL ISSUE DRAWING
INFORMATION ONLY
90% DRAFT
JULY 2023



DESIGNED/DRAWN: K. GROSS	CHECKED: BIGSBY/GRIGA
PROJECT ENGINEER: J. LAPLANTE	SCALE: AS NOTED
DESIGN APPROVAL: T. WANG	PROJECT FILE NO: E00559E18
PROJECT ACCEPTANCE: PRJCT MNGR	CONTRACT NO: C0XXXXCXX



DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
LOWER DUWAMISH WATERWAY UPPER REACH
SEDIMENT CLEANUP

COVER SHEET

DATE: JULY 2023
DRAWING NO: G001
SHT NO / TOTAL 1 / 87
REV NO: 0

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 PLOTTED: Jul 21, 2023 - 11:07:11pm By: tgriga

0 1" REFERENCE

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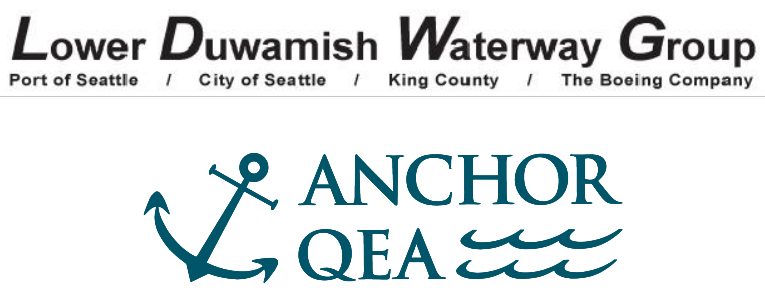
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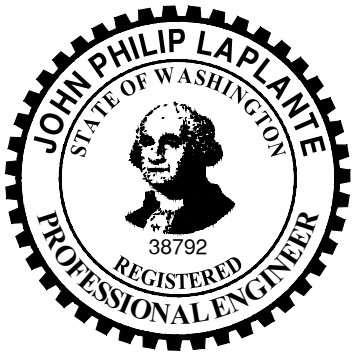
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DESIGNED/DRAWN: K. GROSS	CHECKED: BIGSBY/GRIGA
PROJECT ENGINEER: J. LAPLANTE	SCALE: AS NOTED
DESIGN APPROVAL: T. WANG	PROJECT FILE NO: E00559E18
PROJECT ACCEPTANCE: PRJCT MNGR	CONTRACT NO: C0XXXXCXX



DEPARTMENT OF NATURAL RESOURCES & PARKS
 WASTEWATER TREATMENT DIVISION
 LOWER DUWAMISH WATERWAY UPPER REACH
 SEDIMENT CLEANUP
DRAWING SHEET INDEX

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 PLOTTED: Jul 21, 2023 - 11:07:14pm By: tgriga

GENERAL NOTES:

- FOR DRAWINGS THAT INCLUDE AERIAL PHOTOGRAPHS, THE PHOTOGRAPHS REPRESENT CONDITIONS AT THE TIME IT WAS TAKEN. THE CONTRACTOR SHALL FIELD VERIFY SITE CONDITIONS BEFORE CONSTRUCTION.

HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83 (2011), U.S. SURVEY FEET

VERTICAL DATUM: MLLW

GENERAL SURVEY NOTES:

- TOPOGRAPHIC AND BATHYMETRIC SURVEY DATA WERE MERGED BY ANCHOR QEA TO PROVIDE A CONTINUOUS ELEVATION DATA SET. DATA SET INCLUDE 2019/2020 BATHYMETRY, 2021/2022 TOPOGRAPHIC, 2016 LIDAR, AND VARIOUS INTERPOLATED PATCHES.

BATHYMETRIC SURVEY NOTES:

- THE BATHYMETRIC HYDROGRAPHIC SURVEY WAS COMPLETED BY NORTHWEST HYDRO INC.
- SURVEY DATA COLLECTED APRIL 18, 2019 TO MAY 15, 2019 WITH ADDITIONAL SURVEY JUNE 2020.
- HORIZONTAL DATUM: NAD83-2011 EPOCH 2010.00, STATE PLANE COORDINATES, WASHINGTON NORTH ZONE.
- UNITS: U.S SURVEY FEET
- VERTICAL DATUM: MEAN LOWER LOW WATER (MLLW) EPOCH: 1983-2001. THE CONVERSION BETWEEN NAVD88 AND MLLW WAS DETERMINED USING NOAA/NOS VDATUM 3.9. THE VDATUM CALCULATED SEPARATION BETWEEN NAVD88 AND MLLW AT THE NOAA/NOS TIDE STATION 9447130 (SEATTLE) IS 2.34 FEET. (EXAMPLE: 10.00 FT NAVD88 = 12.34 FT MLLW)
- ALL HORIZONTAL POSITIONING AND VESSEL ALTITUDE WAS PROVIDED IN REAL TIME USING AN APPLANIX POS/MV RTK GPS AIDED INERTIAL SENSOR. REAL TIME RTK CORRECTIONS FROM THE WSRN GNSS NETWORK WERE UTILIZED DURING ALL FIELDWORK FOR THIS PROJECT.
- SOUNDINGS WERE COLLECTED USING A R2SONIC 2022 MULTIBEAM SONAR OPERATING AT 400 KHz. DATA PROCESSING WAS COMPLETED USING HYPACK HYWEEP SOFTWARE.
- THE BATHYMETRIC SURVEY IS REPRESENTATIVE OF THE GENERAL CONDITION OF THE SEABED AT THE TIME OF THE SURVEY. THE CONDITION OF THE BOTTOM MAY CHANGE AT ANY TIME AFTER THE DATE OF THIS SURVEY.
- ALL BATHYMETRIC DATA WERE COLLECTED IN ACCORDANCE WITH THE U.S ARMY CORPS OF ENGINEERS HYDROGRAPHIC SURVEY MANUAL EM-112-02-1003 (NOVEMBER 2013). SURVEY CLASSIFICATION: NAVIGATION AND DREDGING SUPPORT SURVEYS, BOTTOM CLASSIFICATION OF SOFT.

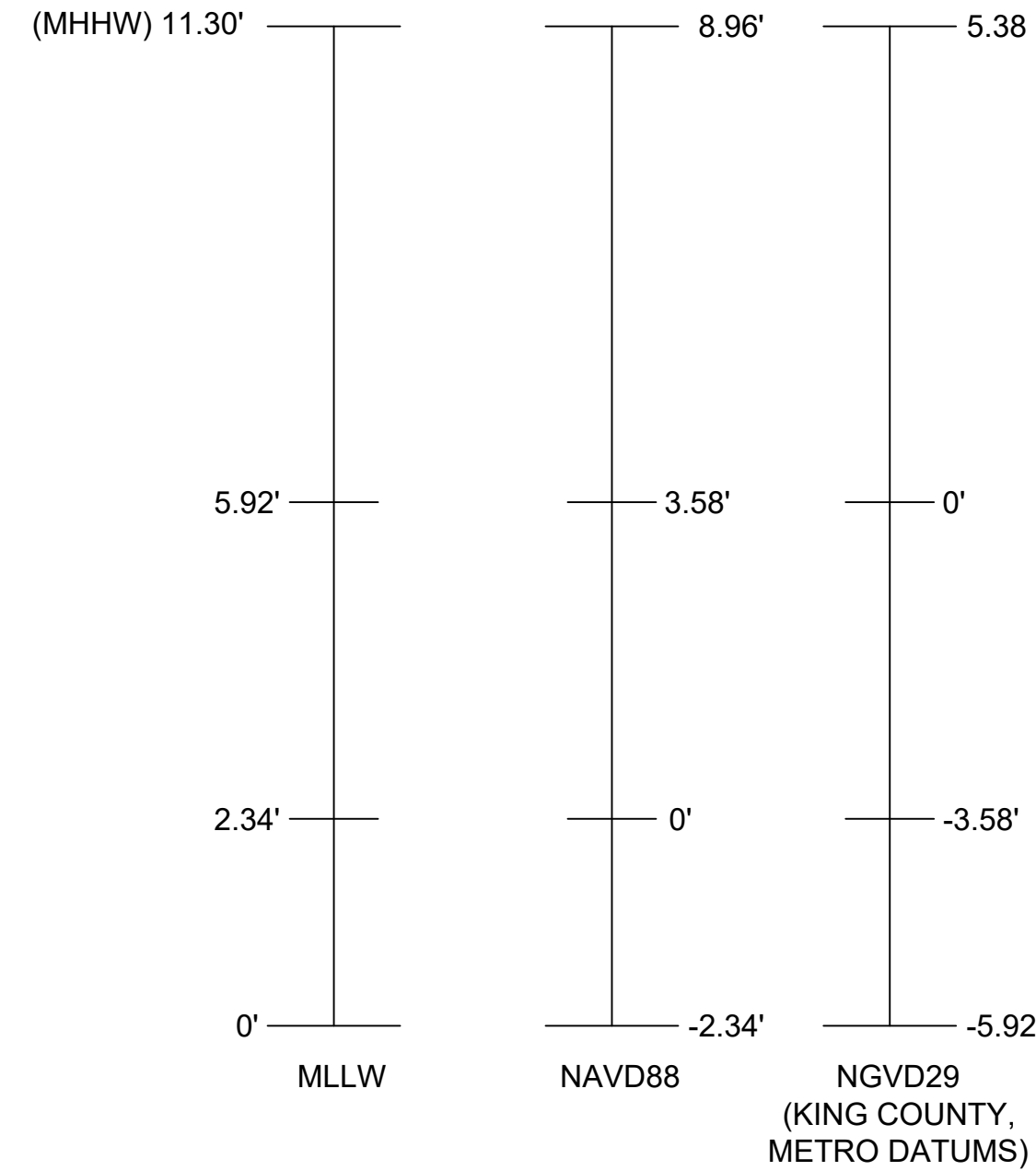
TOPOGRAPHIC SURVEY NOTES:

- THE UPLAND TOPOGRAPHIC SURVEY WAS COMPLETED BY TRUE NORTH LAND SURVEYING, INC. DATE OF SURVEY: JULY 1 THROUGH AUGUST 10, 2021 AND OCTOBER 5-7, 2022.
- HORIZONTAL DATUM: NAD83-2011, WA NORTH ZONE FROM WSDOT, WSDOT MON GP17005-176 & GP17005-181
- VERTICAL DATUM: MLLW CONVERTED FROM NAD 88 (NAVD88 + 2.34 FEET TO MLLW)
- VERTICAL BENCHMARK: COS BM 3765-4302 2" BRASS DISK SET AT 8TH AVE S & S PORTLAND ST IN CENTER OF CONC WALK. EL: 13.322 (NAVD88) CONVERTED EL: 15.662 (MLLW)
- COS BM SNV-5411 2" BASS DISK STAMPED COS TOP OF CURB AROUND US BANK SIGN, AT SOUTHEAST CORNER, EAST MARGINAL WAY S & S MICHIGAN ST. EL: 16.866 (NAVD88) CONVERTED EL: 19.226 (MLLW)
- EQUIPMENT USED: LEICA TS 16 AND GS 16.

DATUM INFORMATION:

- IN-WATER ELEVATIONS ARE IN FEET MLLW, BASED ON THE NOAA/NOS TIDE STATION 9447130 (SEATTLE).
- TO CONVERT ELEVATIONS FROM NAVD88 TO MLLW, ADD +2.34 FEET TO NAVD88 ELEVATIONS (EXAMPLE: 10.00 FEET NAVD88 = 12.34 FEET MLLW).
- MHHW IS EQUAL TO 11.30 FEET BASED ON MLLW DATUM (8.96 FEET BASED ON NAVD88 DATUM).

DATUM CONVERSION:

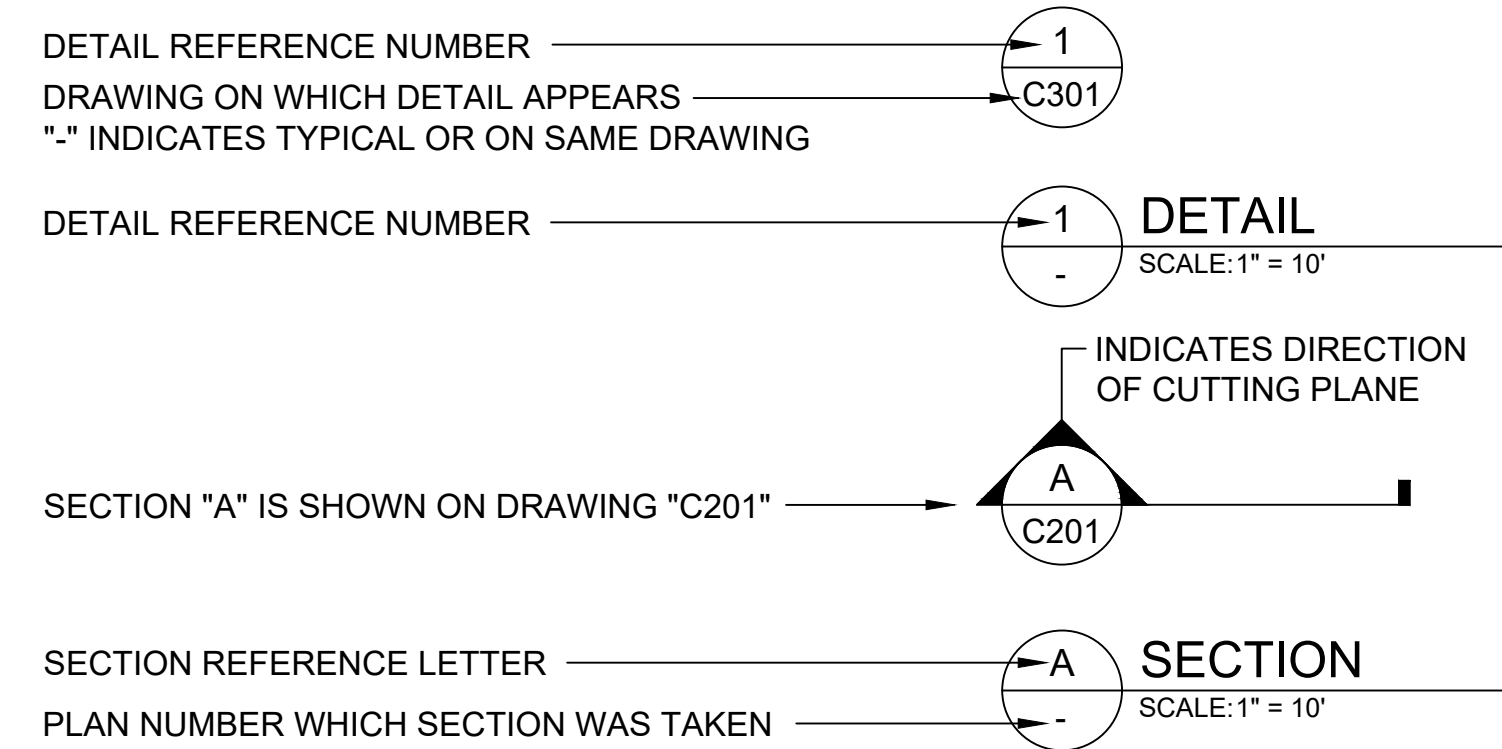


NOT TO SCALE

ABBREVIATIONS:

BLDG	BUILDING
BMP	BEST MANAGEMENT PRACTICE
CONC	CONCRETE
CONT	CONTINUED OR CONTINUOUS
CMP	CORRUGATED METAL PIPE
CP	CONTROL POINT
CY	CUBIC YARD
DI	DUCTILE IRON
DIA	DIAMETER
DWG	DRAWING
E	EAST
EAA	EARLY ACTION AREA
EL, ELEV	ELEVATION
EX	EXISTING
FT	FOOT OR FEET
IE	INVERT ELEVATION
IN	INCH OR INCHES
KCIW	KING COUNTY INDUSTRIAL WASTE DIVISION
MAX	MAXIMUM
MH	MANHOLE
MHHW	MEAN HIGHER HIGH WATER
MIN	MINIMUM
MLLW	MEAN LOWER LOW WATER
N	NORTH
NAD83	NORTH AMERICAN DATUM OF 1983
NAVD88	NORTH AMERICAN VERTICAL DATUM OF 1988
NPDES	NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
OD	OVERDREDGE
PVC	POLYVINYL CHLORIDE
RAA	REMEDIAL ACTION AREA
RCP	REINFORCED CONCRETE PIPE
ROW	RIGHT OF WAY
S	SOUTH
SD	STORM DRAIN
SF	SQUARE FOOT OR SQUARE FEET
SHT	SHEET
SMA	SEDIMENT MANAGEMENT AREA
SPEC	SPECIFICATION
STA	STATION
STD	STANDARD
TESC	TEMPORARY EROSION AND SEDIMENT CONTROL
TYP	TYPICAL
W	WEST
WSDOT	WASHINGTON STATE DEPARTMENT OF TRANSPORTATION

DETAIL AND SECTION REFERENCING:



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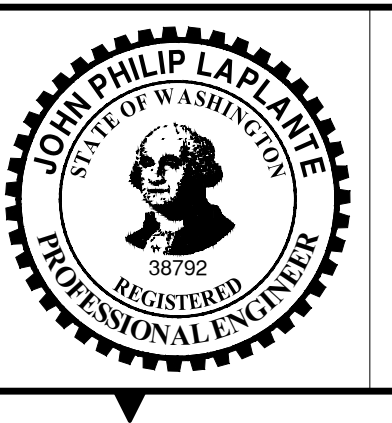
Lower Duwamish Waterway Group
 Port of Seattle / City of Seattle / King County / The Boeing Company

ANCHOR QEA

PRE-FINAL ISSUE DRAWING
 INFORMATION ONLY

90% DRAFT

JULY 2023



DESIGNED/DRAWN: K. GROSS	CHECKED: BIGSBY/GRIGA
PROJECT ENGINEER: J. LAPLANTE	SCALE: AS NOTED
DESIGN APPROVAL: T. WANG	PROJECT FILE NO: E00559E18
PROJECT ACCEPTANCE: PRJCT MNGR	CONTRACT NO: C0XXXXCXX

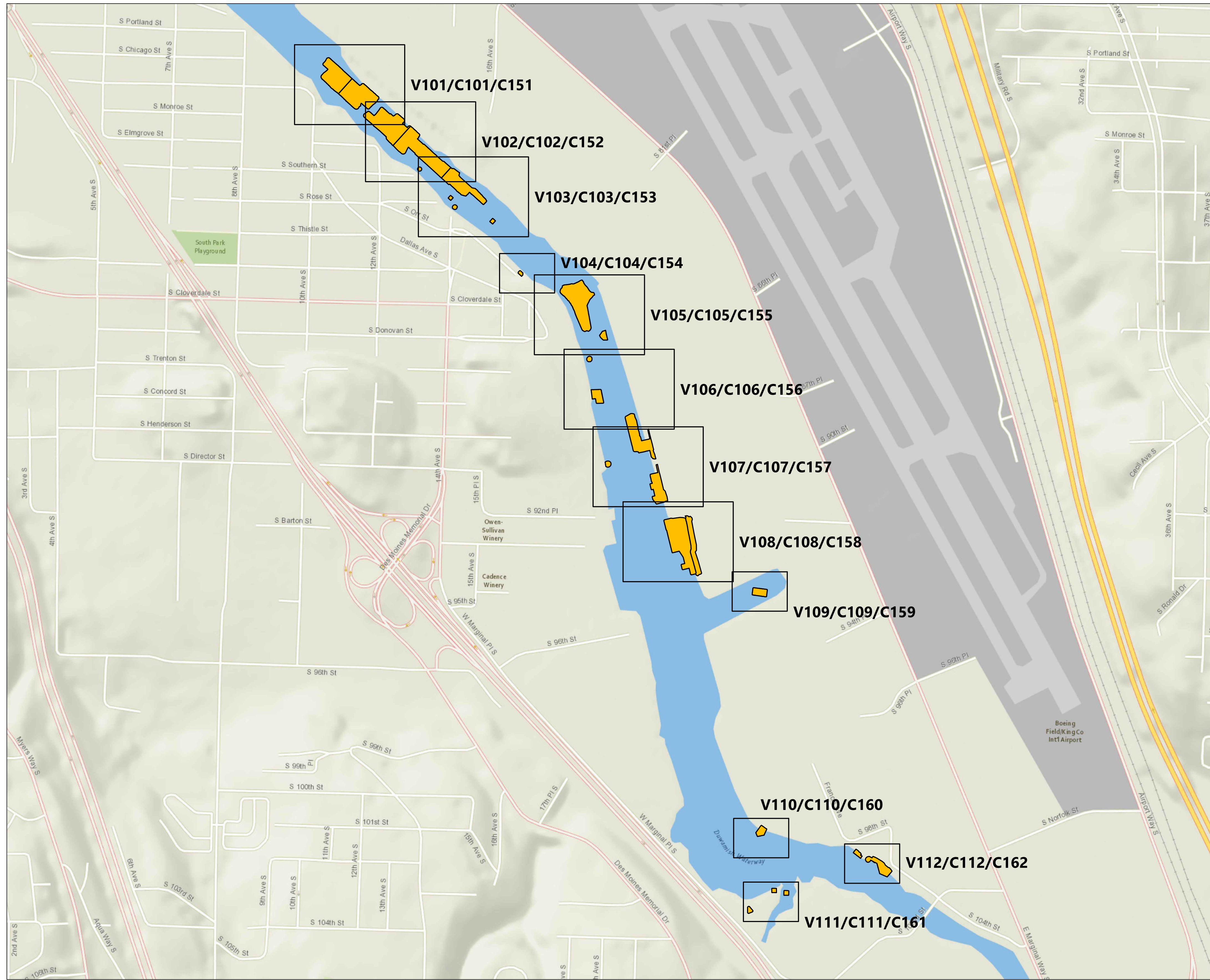



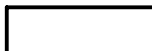
DEPARTMENT OF NATURAL RESOURCES & PARKS
 WASTEWATER TREATMENT DIVISION
 LOWER DUWAMISH WATERWAY UPPER REACH
 SEDIMENT CLEANUP

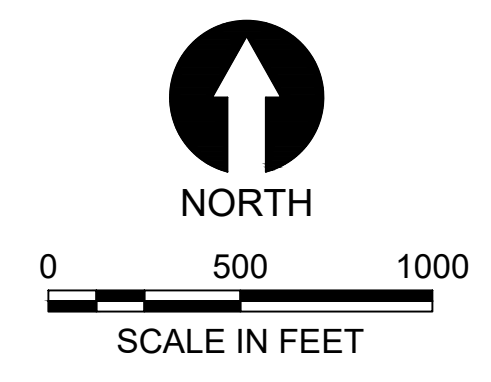
GENERAL NOTES & ABBREVIATIONS

DATE: JULY 2023
DRAWING NO: G003
SHT NO / TOTAL 3 / 87
REV NO: 0

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LEGEND:
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 SHEET EXTENTS AND DRAWING NUMBER
C108

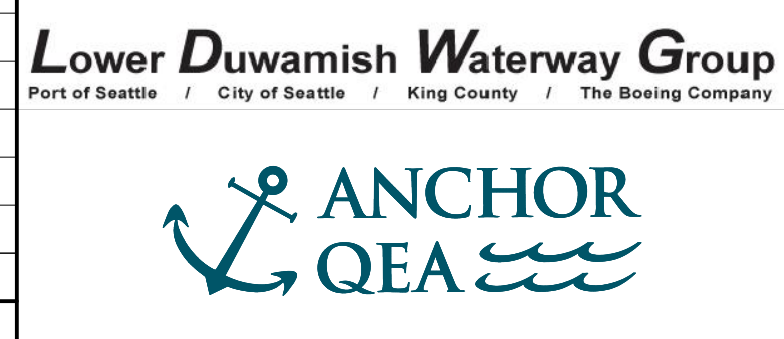


NOTE: HORIZONTAL DATUM:
 WASHINGTON STATE PLANE NORTH
 ZONE, NAD83 (2011), U.S. SURVEY FEET

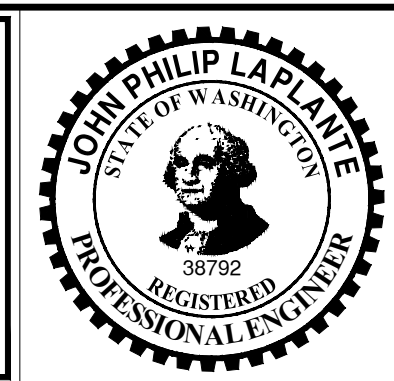
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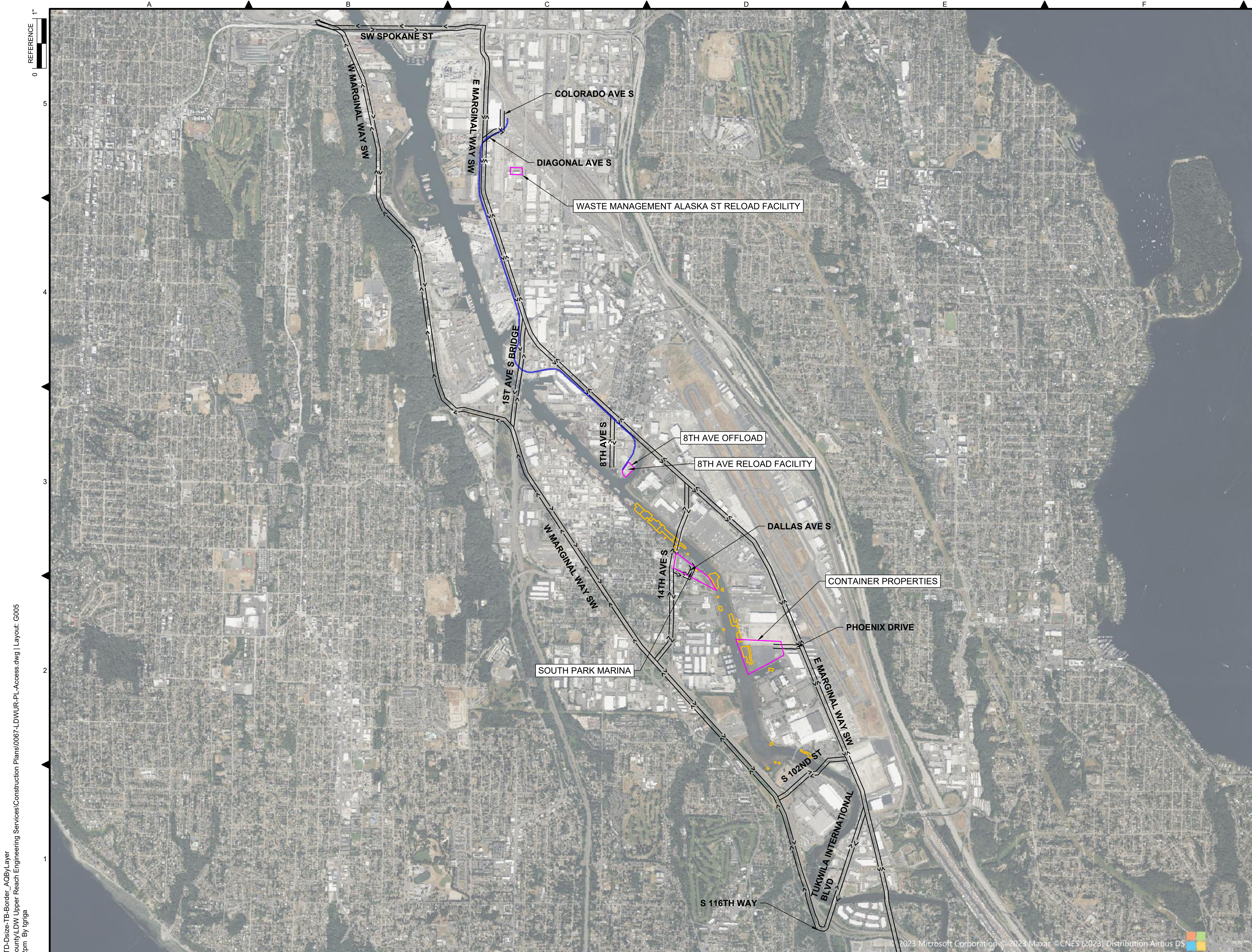
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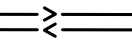



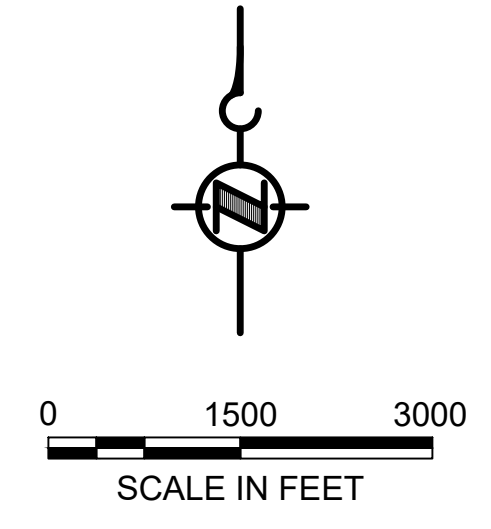
DEPARTMENT OF NATURAL RESOURCES & PARKS
 WASTEWATER TREATMENT DIVISION
 LOWER DUWAMISH WATERWAY UPPER REACH
 SEDIMENT CLEANUP

OVERVIEW MAP

DATE: JULY 2023
DRAWING NO: G004
SHT NO / TOTAL 4 / 87
REV NO: 0



- LEGEND:**
-  EXTENT OF SEDIMENT MANAGEMENT AREA
 -  RAILROAD BETWEEN 8TH AVE OFFLOAD AND WM ALASKA RELOAD FACILITIES
 -  SITE ACCESS ROUTES
 -  FACILITIES



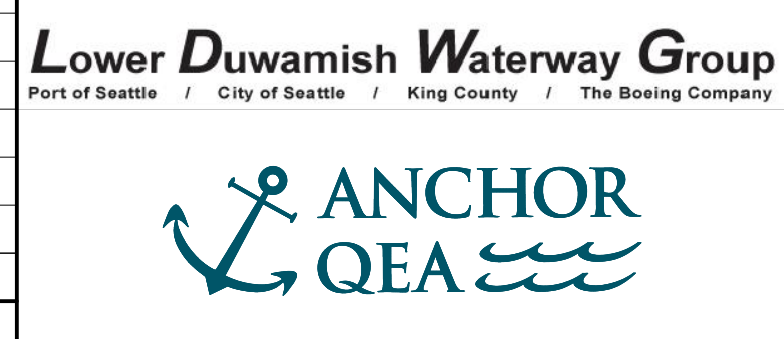
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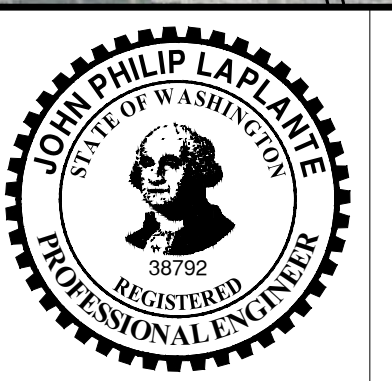
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PRE-FINAL ISSUE DRAWING
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JULY 2023



DESIGNED/DRAWN:
J. COOPER
PROJECT ENGINEER:
J. LAPLANTE
DESIGN APPROVAL:
T. WANG
PROJECT ACCEPTANCE:
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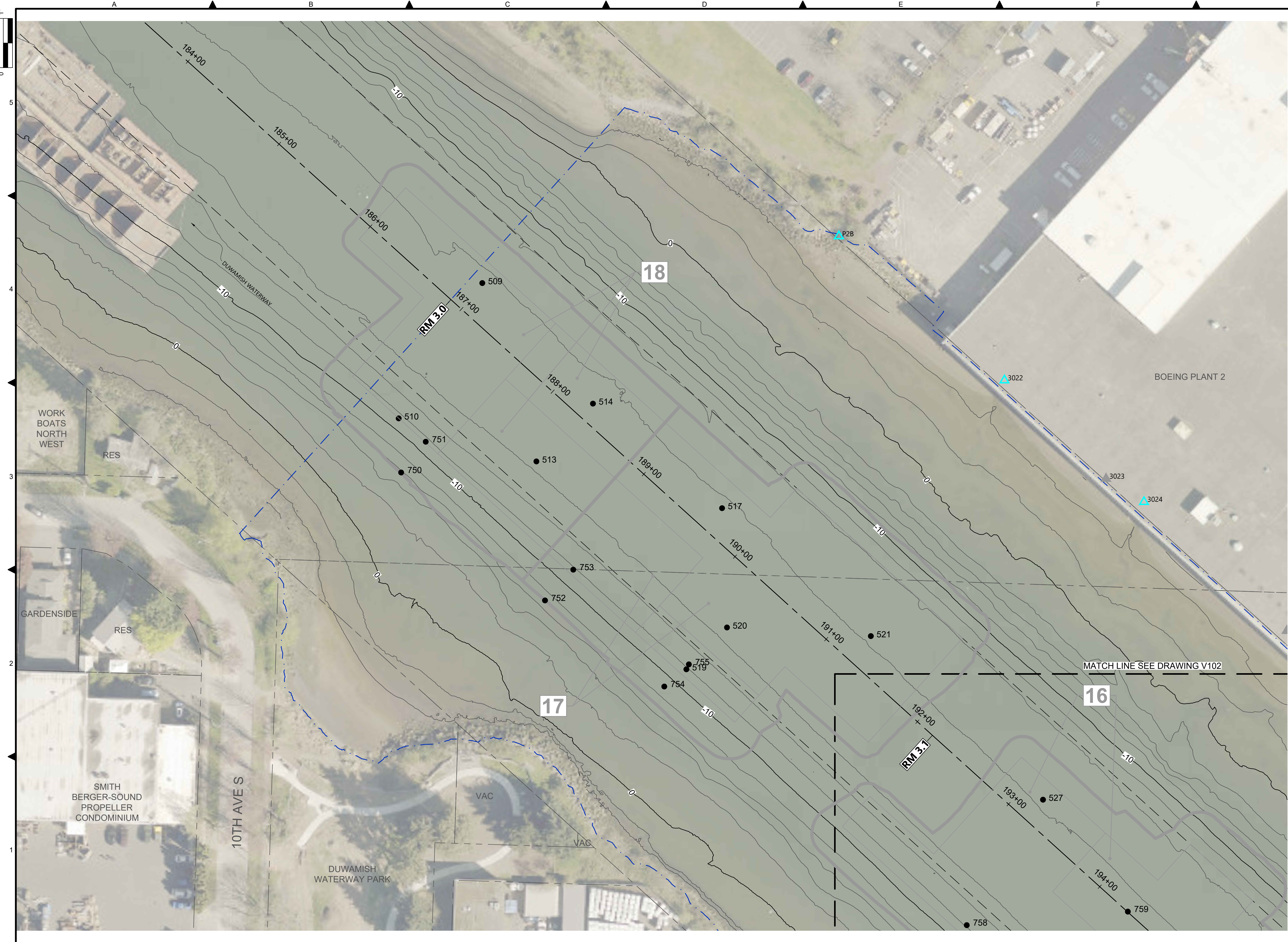


DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
LOWER DUWAMISH WATERWAY UPPER REACH
SEDIMENT CLEANUP

ACCESS AND STAGING PLAN

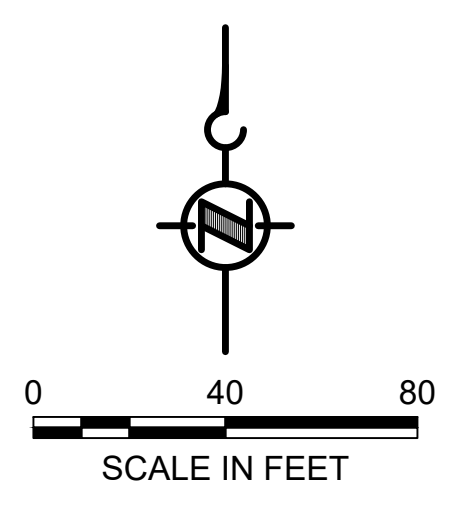
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 PLOTTED: Jul 21, 2023 - 11:09:51pm By: tgriga



- LEGEND:**
- USACE CHANNEL CENTERLINE AND STATIONING
 - FEDERAL NAVIGATION CHANNEL
 - RM 3.0** RIVER MILE LABEL
 - KING COUNTY PARCEL (GIS)
 - LDW UPPER REACH APPROXIMATE BOUNDARY
 - EXISTING GRADE MERGED DATA SET CONTOURS (2' & 10' INTERVALS)
 - OUTFALL LOCATION (ACTIVE)
 - OUTFALL LOCATION (PRESUMED ABANDONED, INACTIVE, OR REMOVED)
 - DOLPHIN
 - PILE
 - VERTICAL DELINEATION CORE LOCATION
 - SEDIMENT MANAGEMENT AREA BOUNDARY
 - 14** SEDIMENT MANAGEMENT AREA NUMBER

- NOTES:**
1. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83 (2011), U.S. SURVEY FEET
 2. VERTICAL DATUM: MLLW
 3. AERIAL SOURCE: KING COUNTY 2021
 4. THESE DRAWINGS DISPLAY THE LOCATION OF VERTICAL DELINEATION CORES ONLY. SEDIMENT CHARACTERIZATION DESIGN DATASET WILL BE PROVIDED TO CONTRACTOR.



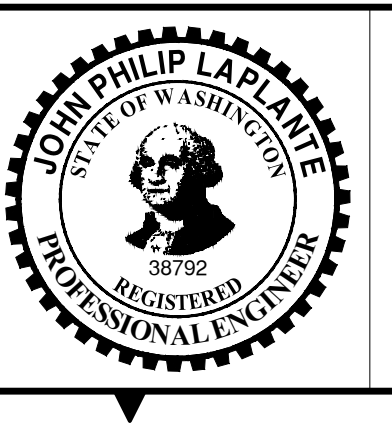
COLOR IMAGE
 THIS DRAWING IS COMPOSED USING COLOR IMAGES OR PHOTOGRAPHS AND MUST BE PLOTTED, PRINTED, AND REPRODUCED IN COLOR TO BE VIEWED ACCURATELY.

NOT FOR BIDDING

NO	REVISION DESCRIPTION	BY	APVD	DATE

Lower Duwamish Waterway Group
 Port of Seattle / City of Seattle / King County / The Boeing Company

PRE-FINAL ISSUE DRAWING
 INFORMATION ONLY
90% DRAFT
 JULY 2023



DESIGNED/DRAWN: K. GROSS	CHECKED: BIGSBY/GRIGA
PROJECT ENGINEER: J. LAPLANTE	SCALE: AS NOTED
DESIGN APPROVAL: T. WANG	PROJECT FILE NO: E00559E18
PROJECT ACCEPTANCE: PRJCT MNGR	CONTRACT NO: C0XXXXCXX

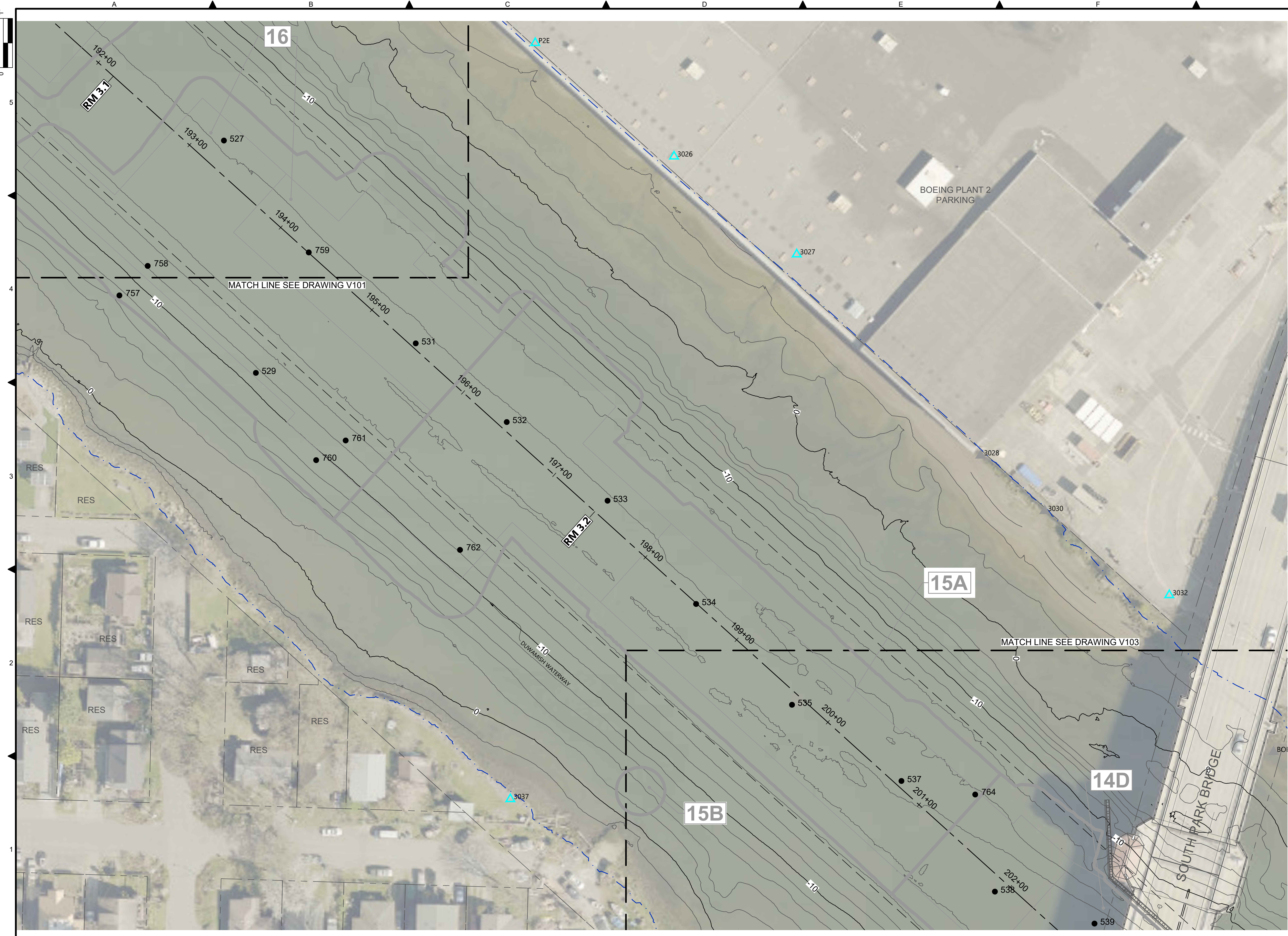


DEPARTMENT OF NATURAL RESOURCES & PARKS
 WASTEWATER TREATMENT DIVISION
 LOWER DUWAMISH WATERWAY UPPER REACH
 SEDIMENT CLEANUP

EXISTING CONDITIONS
 (RM 2.93 TO 3.15)

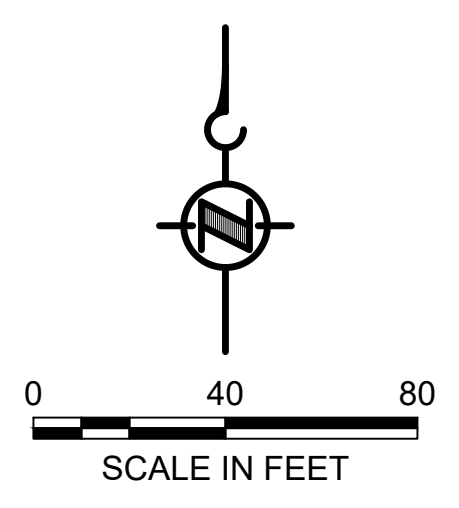
DATE: JULY 2023
DRAWING NO: V101
SHT NO / TOTAL 6 / 87
REV NO: 0

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 PLOTTED: Jul 21, 2023 - 11:10:37pm By: tgriga



- LEGEND:**
- USACE CHANNEL CENTERLINE AND STATIONING
 - FEDERAL NAVIGATION CHANNEL
 - RM 3.0** RIVER MILE LABEL
 - KING COUNTY PARCEL (GIS)
 - LDW UPPER REACH APPROXIMATE BOUNDARY
 - EXISTING GRADE MERGED DATA SET CONTOURS (2' & 10' INTERVALS)
 - OUTFALL LOCATION (ACTIVE)
 - OUTFALL LOCATION (PRESUMED ABANDONED, INACTIVE, OR REMOVED)
 - DOLPHIN
 - PILE
 - VERTICAL DELINEATION CORE LOCATION
 - SEDIMENT MANAGEMENT AREA BOUNDARY
 - 14** SEDIMENT MANAGEMENT AREA NUMBER

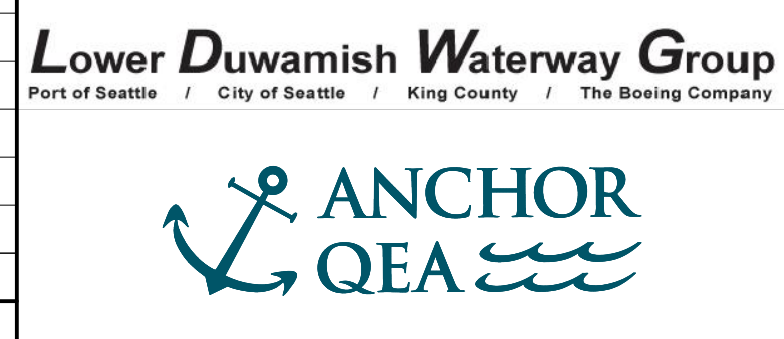
- NOTES:**
1. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83 (2011), U.S. SURVEY FEET
 2. VERTICAL DATUM: MLLW
 3. AERIAL SOURCE: KING COUNTY 2021
 4. THESE DRAWINGS DISPLAY THE LOCATION OF VERTICAL DELINEATION CORES ONLY. SEDIMENT CHARACTERIZATION DESIGN DATASET WILL BE PROVIDED TO CONTRACTOR.



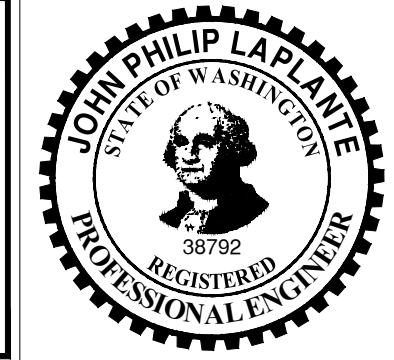
COLOR IMAGE
 THIS DRAWING IS COMPOSED USING COLOR IMAGES OR PHOTOGRAPHS AND MUST BE PLOTTED, PRINTED, AND REPRODUCED IN COLOR TO BE VIEWED ACCURATELY.

NOT FOR BIDDING

NO	REVISION DESCRIPTION	BY	APVD	DATE



PRE-FINAL ISSUE DRAWING
 INFORMATION ONLY
90% DRAFT
 JULY 2023



DESIGNED/DRAWN: K. GROSS
 PROJECT ENGINEER: J. LAPLANTE
 DESIGN APPROVAL: T. WANG
 PROJECT ACCEPTANCE: PRJCT MNGR

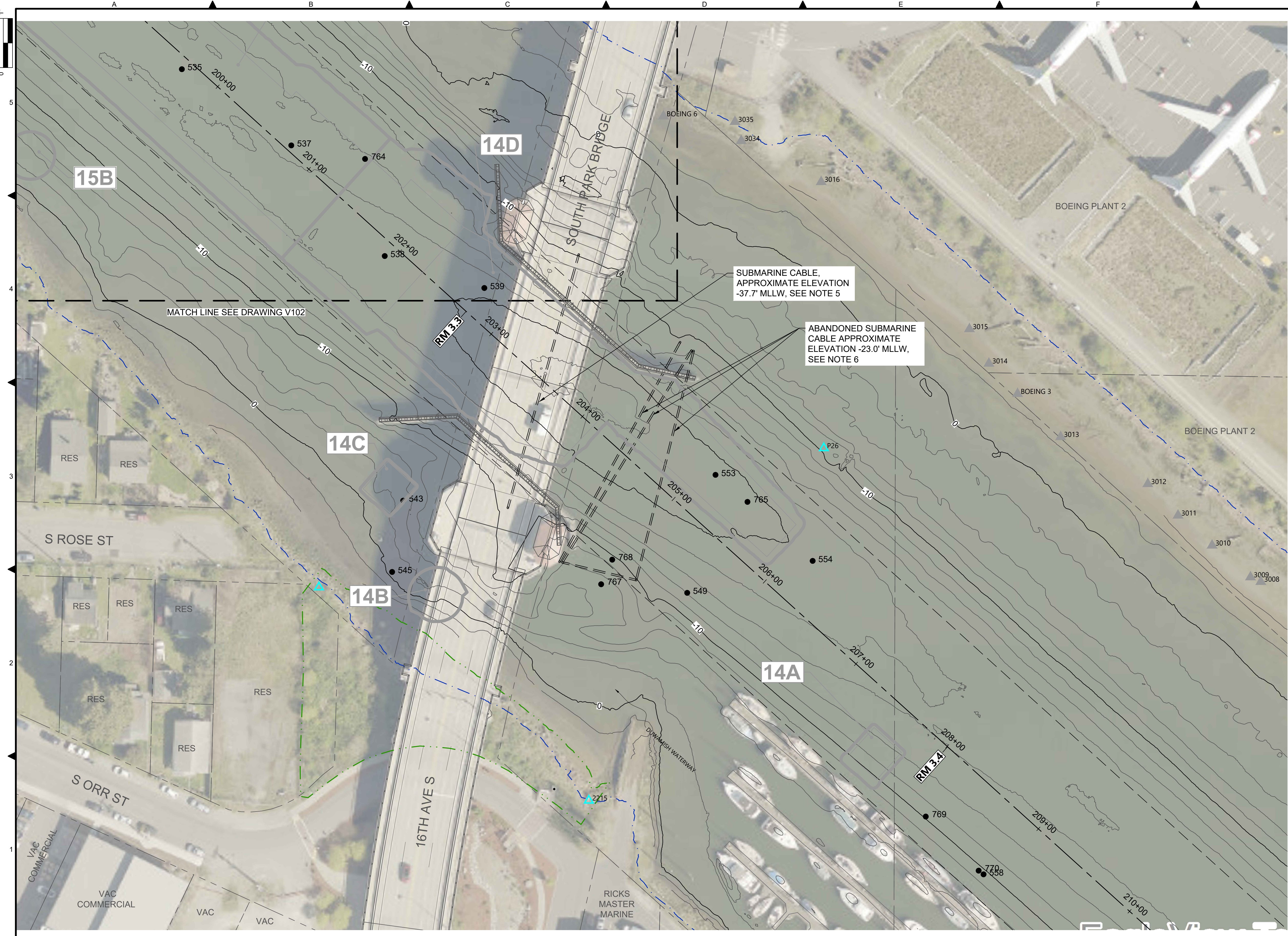
CHECKED: BIGSBY/GRIGA
 SCALE: AS NOTED
 PROJECT FILE NO: E00559E18
 CONTRACT NO: C0XXXXCX



DEPARTMENT OF NATURAL RESOURCES & PARKS
 WASTEWATER TREATMENT DIVISION
 LOWER DUWAMISH WATERWAY UPPER REACH
 SEDIMENT CLEANUP
EXISTING CONDITIONS
 (RM 3.09 TO 3.29)

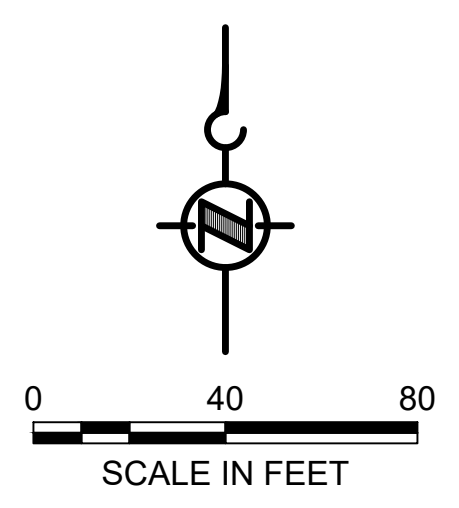
DATE: JULY 2023
 DRAWING NO: **V102**
 SHT NO / TOTAL: 7 / 87
 REV NO: **0**

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 PLOTTED: Jul 21, 2023 - 11:11:22pm By: tgriga



- LEGEND:**
- USACE CHANNEL CENTERLINE AND STATIONING
 - FEDERAL NAVIGATION CHANNEL
 - RM 3.0** RIVER MILE LABEL
 - KING COUNTY PARCEL (GIS)
 - LDW UPPER REACH APPROXIMATE BOUNDARY
 - EXISTING GRADE MERGED DATA SET CONTOURS (2' & 10' INTERVALS)
 - ▲ OUTFALL LOCATION (ACTIVE)
 - ▲ OUTFALL LOCATION (PRESUMED ABANDONED, INACTIVE, OR REMOVED)
 - ▲ DOLPHIN
 - PILE
 - VERTICAL DELINEATION CORE LOCATION
 - SEDIMENT MANAGEMENT AREA BOUNDARY
 - 14** SEDIMENT MANAGEMENT AREA NUMBER

- NOTES:**
1. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83 (2011), U.S. SURVEY FEET
 2. VERTICAL DATUM: MLLW
 3. AERIAL SOURCE: KING COUNTY 2021
 4. THESE DRAWINGS DISPLAY THE LOCATION OF VERTICAL DELINEATION CORES ONLY. SEDIMENT CHARACTERIZATION DESIGN DATASET WILL BE PROVIDED TO CONTRACTOR.
 5. THE CONTRACTOR SHALL TAKE EXTREME CARE WHILE WORKING NEAR THE ACTIVE LINE. SEE SPECIFICATION SECTION 35 20 23 FOR RESTRICTIONS ON SPUDDING IN THIS AREA.
 6. THE ABANDONED SUBMARINE CABLE SHALL BE REMOVED IF ENCOUNTERED.



COLOR IMAGE

THIS DRAWING IS COMPOSED USING COLOR IMAGES OR PHOTOGRAPHS AND MUST BE PLOTTED, PRINTED, AND REPRODUCED IN COLOR TO BE VIEWED ACCURATELY.

NOT FOR BIDDING

NO	REVISION DESCRIPTION	BY	APVD	DATE

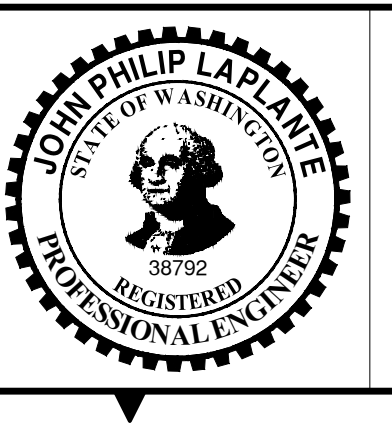
Lower Duwamish Waterway Group
 Port of Seattle / City of Seattle / King County / The Boeing Company

ANCHOR QEA

PRE-FINAL ISSUE DRAWING
 INFORMATION ONLY

90% DRAFT

JULY 2023



DESIGNED/DRAWN: K. GROSS	CHECKED: BIGSBY/GRIGA
PROJECT ENGINEER: J. LAPLANTE	SCALE: AS NOTED
DESIGN APPROVAL: T. WANG	PROJECT FILE NO: E00559E18
PROJECT ACCEPTANCE: PRJCT MNGR	CONTRACT NO: C0XXXXCXX

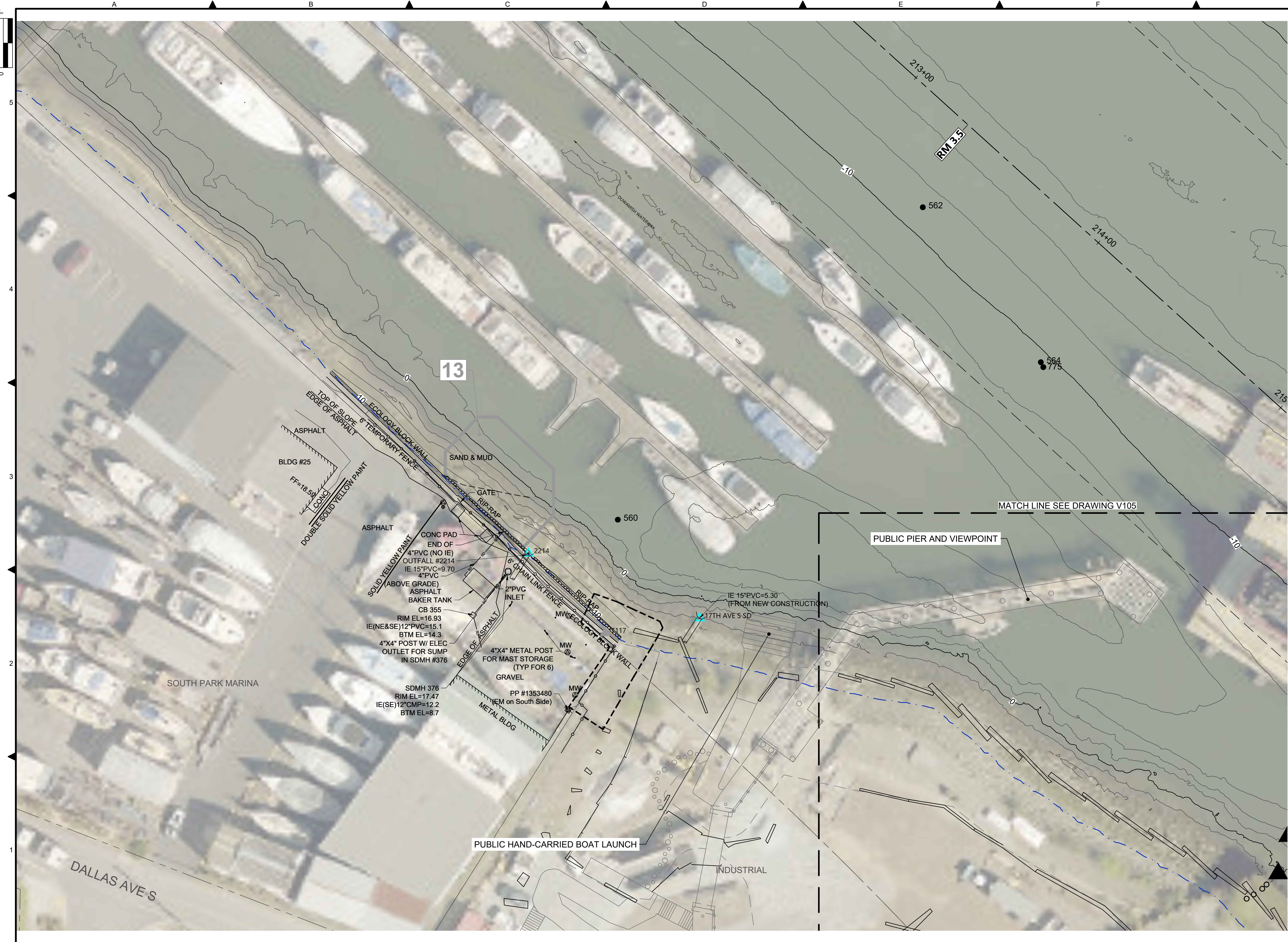


DEPARTMENT OF NATURAL RESOURCES & PARKS
 WASTEWATER TREATMENT DIVISION
 LOWER DUWAMISH WATERWAY UPPER REACH
 SEDIMENT CLEANUP

EXISTING CONDITIONS
 (RM 3.23 TO 3.44)

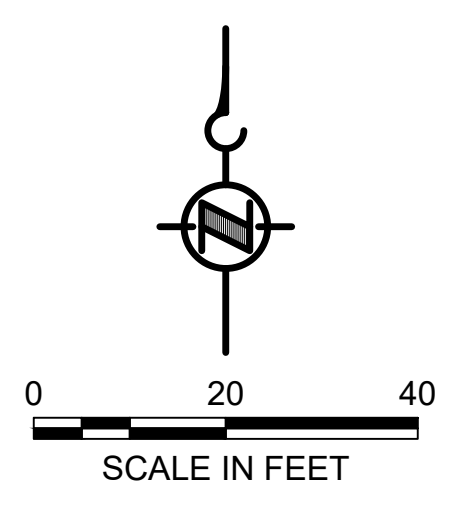
DATE: JULY 2023
DRAWING NO: V103
SHT NO / TOTAL 8 / 87
REV NO: 0

BORDER FILE EDITION: x:\KOV\DW\DW-Size-TB-Border_ACBM\Layer
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 PLOTTED: Jul 21, 2023 - 11:12:07pm By: tgriga



- LEGEND:**
- USACE CHANNEL CENTERLINE AND STATIONING
 - FEDERAL NAVIGATION CHANNEL
 - RM 3.0** RIVER MILE LABEL
 - KING COUNTY PARCEL (GIS)
 - LDW UPPER REACH APPROXIMATE BOUNDARY
 - EXISTING GRADE MERGED DATA SET CONTOURS (2' & 10' INTERVALS)
 - OUTFALL LOCATION (ACTIVE)
 - OUTFALL LOCATION (PRESUMED ABANDONED, INACTIVE, OR REMOVED)
 - DOLPHIN
 - PILE
 - VERTICAL DELINEATION CORE LOCATION
 - SEDIMENT MANAGEMENT AREA BOUNDARY
 - 14** SEDIMENT MANAGEMENT AREA NUMBER

- NOTES:**
1. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83 (2011), U.S. SURVEY FEET
 2. VERTICAL DATUM: MLLW
 3. AERIAL SOURCE: KING COUNTY 2021
 4. THESE DRAWINGS DISPLAY THE LOCATION OF VERTICAL DELINEATION CORES ONLY. SEDIMENT CHARACTERIZATION DESIGN DATASET WILL BE PROVIDED TO CONTRACTOR.



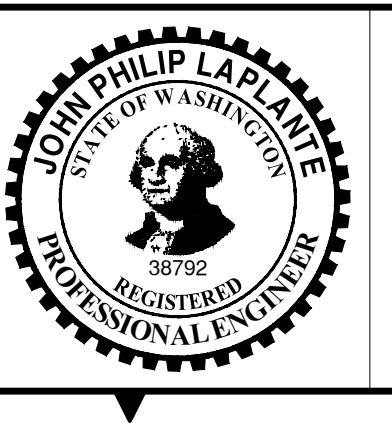
COLOR IMAGE
 THIS DRAWING IS COMPOSED USING COLOR IMAGES OR PHOTOGRAPHS AND MUST BE PLOTTED, PRINTED, AND REPRODUCED IN COLOR TO BE VIEWED ACCURATELY.

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NO	REVISION DESCRIPTION	BY	APVD	DATE

Lower Duwamish Waterway Group
Port of Seattle / City of Seattle / King County / The Boeing Company

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 JULY 2023

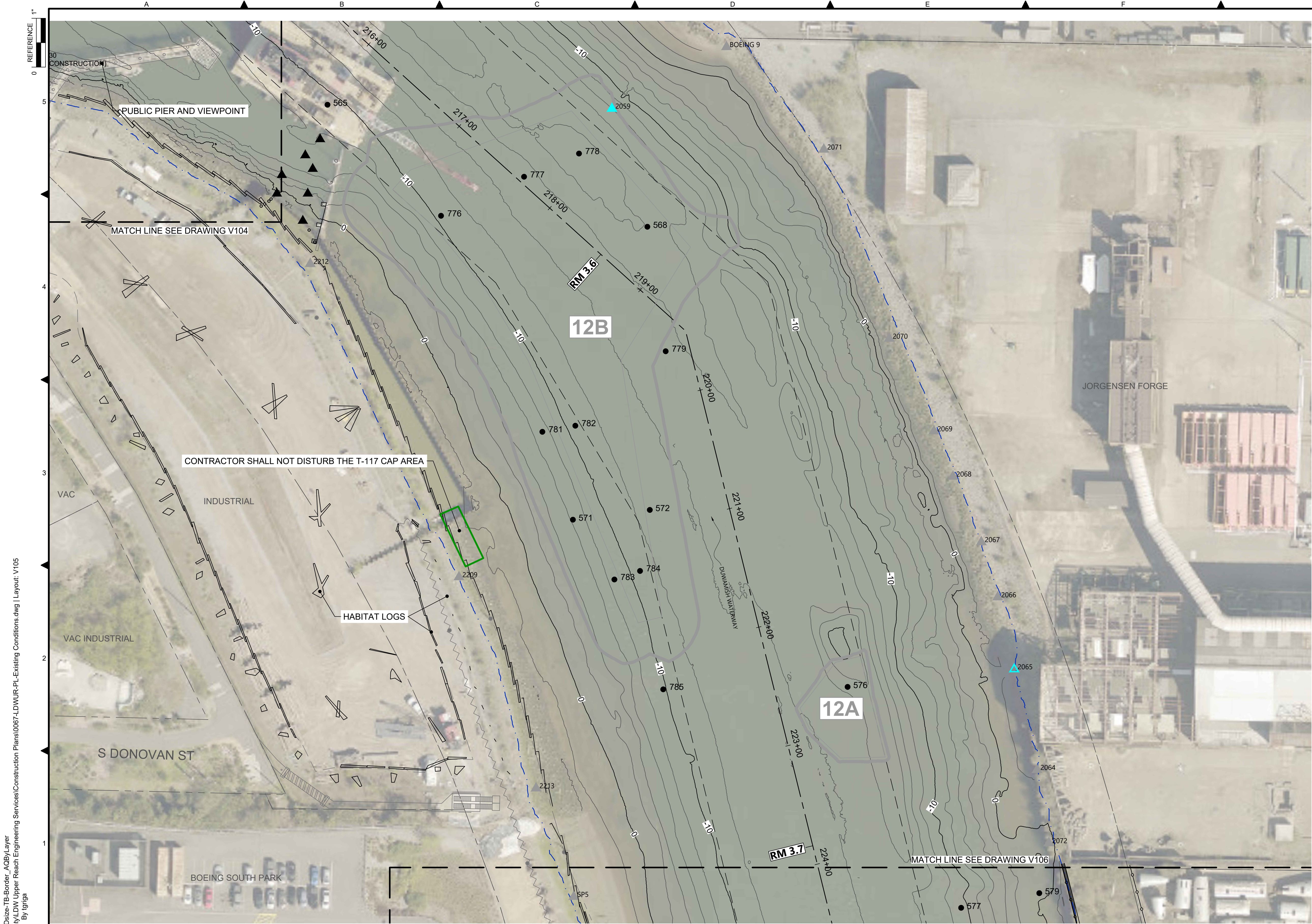


DESIGNED/DRAWN: K. GROSS	CHECKED: BIGSBY/GRIGA
PROJECT ENGINEER: J. LAPLANTE	SCALE: AS NOTED
DESIGN APPROVAL: T. WANG	PROJECT FILE NO: E00559E18
PROJECT ACCEPTANCE: PRJCT MNGR	CONTRACT NO: C0XXXXCX



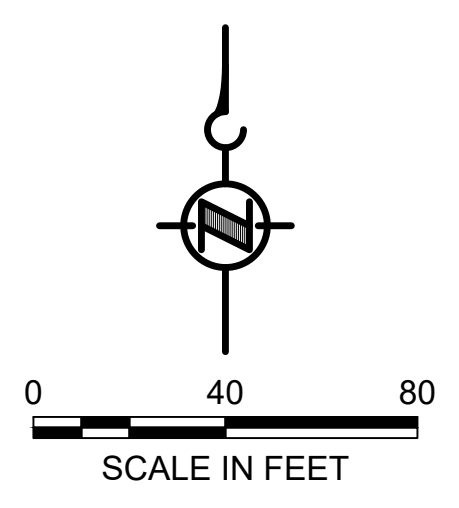
DEPARTMENT OF NATURAL RESOURCES & PARKS
 WASTEWATER TREATMENT DIVISION
 LOWER DUWAMISH WATERWAY UPPER REACH
 SEDIMENT CLEANUP
EXISTING CONDITIONS
(RM 3.49 TO 3.56)

DATE: JULY 2023	DRAWING NO: V104
SHT NO / TOTAL 9 / 87	REV NO: 0



- LEGEND:**
- USACE CHANNEL CENTERLINE AND STATIONING
 - FEDERAL NAVIGATION CHANNEL
 - RM 3.0** RIVER MILE LABEL
 - KING COUNTY PARCEL (GIS)
 - LDW UPPER REACH APPROXIMATE BOUNDARY
 - EXISTING GRADE MERGED DATA SET CONTOURS (2' & 10' INTERVALS)
 - OUTFALL LOCATION (ACTIVE)
 - OUTFALL LOCATION (PRESUMED ABANDONED, INACTIVE, OR REMOVED)
 - DOLPHIN
 - PILE
 - VERTICAL DELINEATION CORE LOCATION
 - SEDIMENT MANAGEMENT AREA BOUNDARY
 - 14** SEDIMENT MANAGEMENT AREA NUMBER

- NOTES:**
1. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83 (2011), U.S. SURVEY FEET
 2. VERTICAL DATUM: MLLW
 3. AERIAL SOURCE: KING COUNTY 2021
 4. THESE DRAWINGS DISPLAY THE LOCATION OF VERTICAL DELINEATION CORES ONLY. SEDIMENT CHARACTERIZATION DESIGN DATASET WILL BE PROVIDED TO CONTRACTOR.

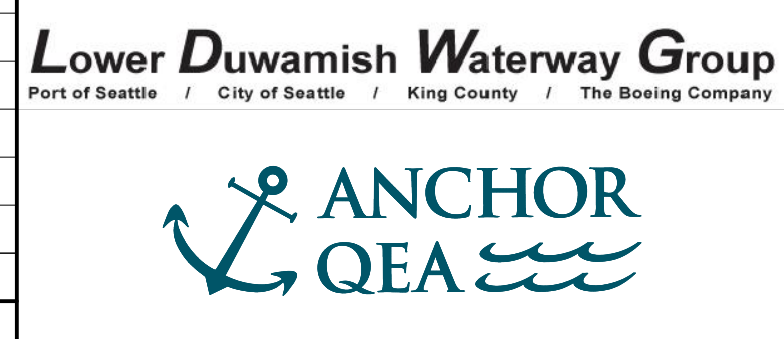


COLOR IMAGE
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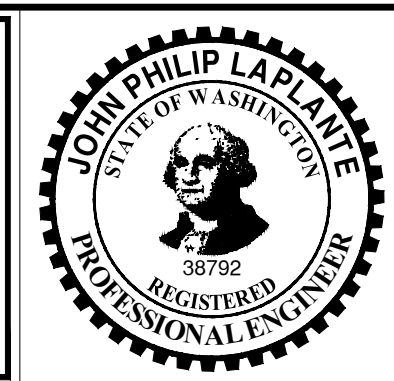
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 PLOTTED: Jul 21, 2023 - 11:52:52pm By: tgriga

NO	REVISION DESCRIPTION	BY	APVD	DATE



PRE-FINAL ISSUE DRAWING
INFORMATION ONLY
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 JULY 2023



DESIGNED/DRAWN: K. GROSS	CHECKED: BIGSBY/GRIGA
PROJECT ENGINEER: J. LAPLANTE	SCALE: AS NOTED
DESIGN APPROVAL: T. WANG	PROJECT FILE NO: E00559E18
PROJECT ACCEPTANCE: PRJCT MNGR	CONTRACT NO: C0XXXXCXX



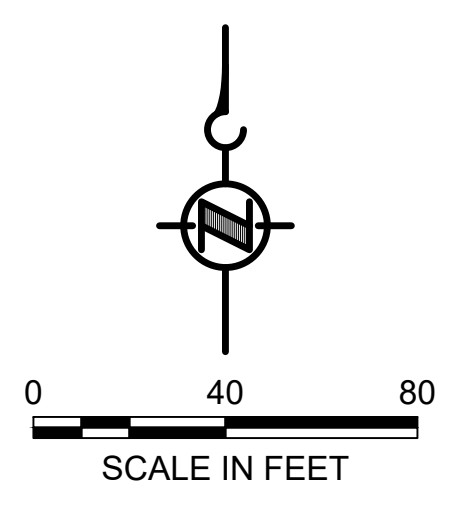
DEPARTMENT OF NATURAL RESOURCES & PARKS
 WASTEWATER TREATMENT DIVISION
 LOWER DUWAMISH WATERWAY UPPER REACH
 SEDIMENT CLEANUP
EXISTING CONDITIONS
(RM 3.54 TO 3.71)

DATE: JULY 2023
DRAWING NO: V105
SHT NO / TOTAL 10 / 87
REV NO: 0



- LEGEND:**
- USACE CHANNEL CENTERLINE AND STATIONING
 - FEDERAL NAVIGATION CHANNEL
 - RM 3.0** RIVER MILE LABEL
 - KING COUNTY PARCEL (GIS)
 - LDW UPPER REACH APPROXIMATE BOUNDARY
 - EXISTING GRADE MERGED DATA SET CONTOURS (2' & 10' INTERVALS)
 - OUTFALL LOCATION (ACTIVE)
 - OUTFALL LOCATION (PRESUMED ABANDONED, INACTIVE, OR REMOVED)
 - DOLPHIN
 - PILE
 - VERTICAL DELINEATION CORE LOCATION
 - SEDIMENT MANAGEMENT AREA BOUNDARY
 - 14** SEDIMENT MANAGEMENT AREA NUMBER
 - ENR/AC PILOT PLOT

- NOTES:**
1. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83 (2011), U.S. SURVEY FEET
 2. VERTICAL DATUM: MLLW
 3. AERIAL SOURCE: KING COUNTY 2021
 4. THESE DRAWINGS DISPLAY THE LOCATION OF VERTICAL DELINEATION CORES ONLY. SEDIMENT CHARACTERIZATION DESIGN DATASET WILL BE PROVIDED TO CONTRACTOR.

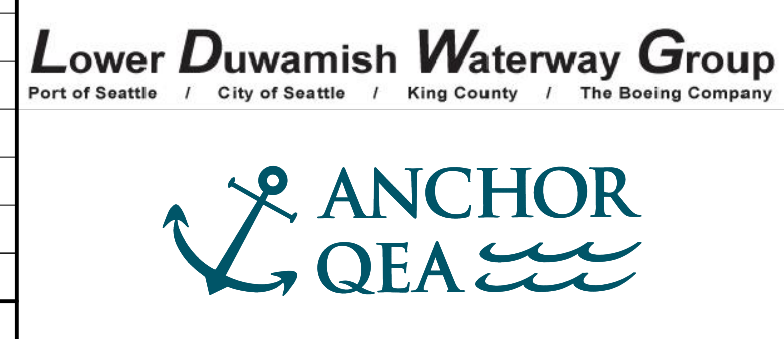


COLOR IMAGE
 THIS DRAWING IS COMPOSED USING COLOR IMAGES OR PHOTOGRAPHS AND MUST BE PLOTTED, PRINTED, AND REPRODUCED IN COLOR TO BE VIEWED ACCURATELY.

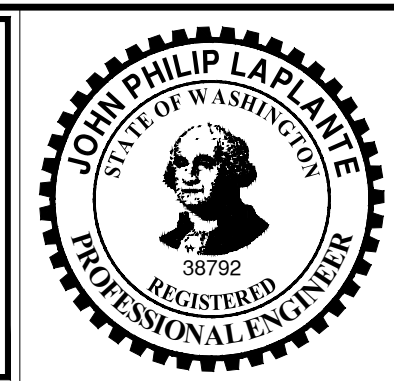
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 PLOTTED: Jul 21, 2023 - 11:13:38pm By: tgriga

NO	REVISION DESCRIPTION	BY	APVD	DATE



PRE-FINAL ISSUE DRAWING
 INFORMATION ONLY
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 JULY 2023



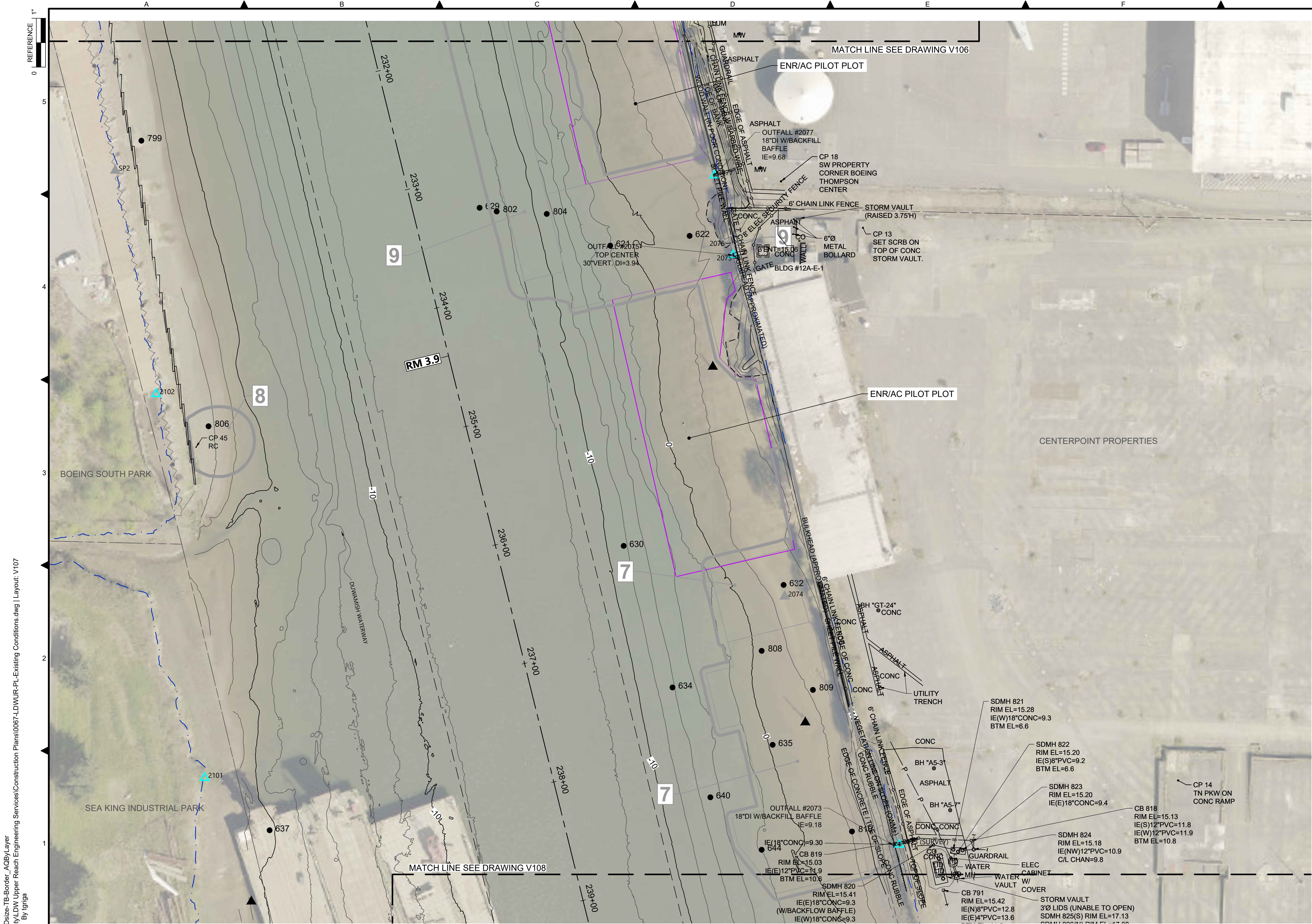
DESIGNED/DRAWN: K. GROSS
 PROJECT ENGINEER: J. LAPLANTE
 DESIGN APPROVAL: T. WANG
 PROJECT ACCEPTANCE: PRJCT MNGR

CHECKED: BIGSBY/GRIGA
 SCALE: AS NOTED
 PROJECT FILE NO: E00559E18
 CONTRACT NO: C0XXXXCX



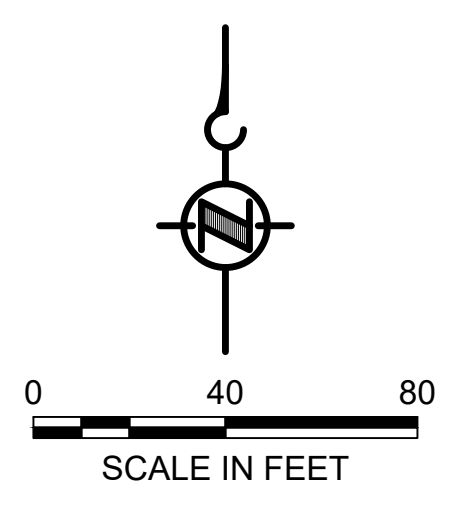
DEPARTMENT OF NATURAL RESOURCES & PARKS
 WASTEWATER TREATMENT DIVISION
 LOWER DUWAMISH WATERWAY UPPER REACH
 SEDIMENT CLEANUP
EXISTING CONDITIONS
 (RM 3.73 TO 3.84)

DATE: JULY 2023
 DRAWING NO: **V106**
 SHT NO / TOTAL: 11 / 87
 REV NO: **0**



- LEGEND:**
- USACE CHANNEL CENTERLINE AND STATIONING
 - FEDERAL NAVIGATION CHANNEL
 - RM 3.0** RIVER MILE LABEL
 - KING COUNTY PARCEL (GIS)
 - LDW UPPER REACH APPROXIMATE BOUNDARY
 - EXISTING GRADE MERGED DATA SET CONTOURS (2' & 10' INTERVALS)
 - ▲** OUTFALL LOCATION (ACTIVE)
 - OUTFALL LOCATION (PRESUMED ABANDONED, INACTIVE, OR REMOVED)
 - ▲** DOLPHIN
 - PILE
 - VERTICAL DELINEATION CORE LOCATION
 - ▭** SEDIMENT MANAGEMENT AREA BOUNDARY
 - 14** SEDIMENT MANAGEMENT AREA NUMBER
 - ENR/AC PILOT PLOT

- NOTES:**
1. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83 (2011), U.S. SURVEY FEET
 2. VERTICAL DATUM: MLLW
 3. AERIAL SOURCE: KING COUNTY 2021
 4. THESE DRAWINGS DISPLAY THE LOCATION OF VERTICAL DELINEATION CORES ONLY. SEDIMENT CHARACTERIZATION DESIGN DATASET WILL BE PROVIDED TO CONTRACTOR.



COLOR IMAGE
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NOT FOR BIDDING

BORDER FILE EDITION: x:\KOV\DW\DW-Size-TB-Border_ACBM\layer\g:\a\c\ad\Projects\0067-King County\LDW Upper Reach Engineering Services\Construction Plans\0067-LDWUR-PL-Existing Conditions.dwg | Layout: V107
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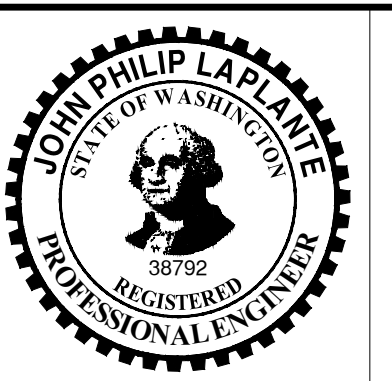
NO	REVISION DESCRIPTION	BY	APVD	DATE

Lower Duwamish Waterway Group
 Port of Seattle / City of Seattle / King County / The Boeing Company

PRE-FINAL ISSUE DRAWING
 INFORMATION ONLY

90% DRAFT

JULY 2023



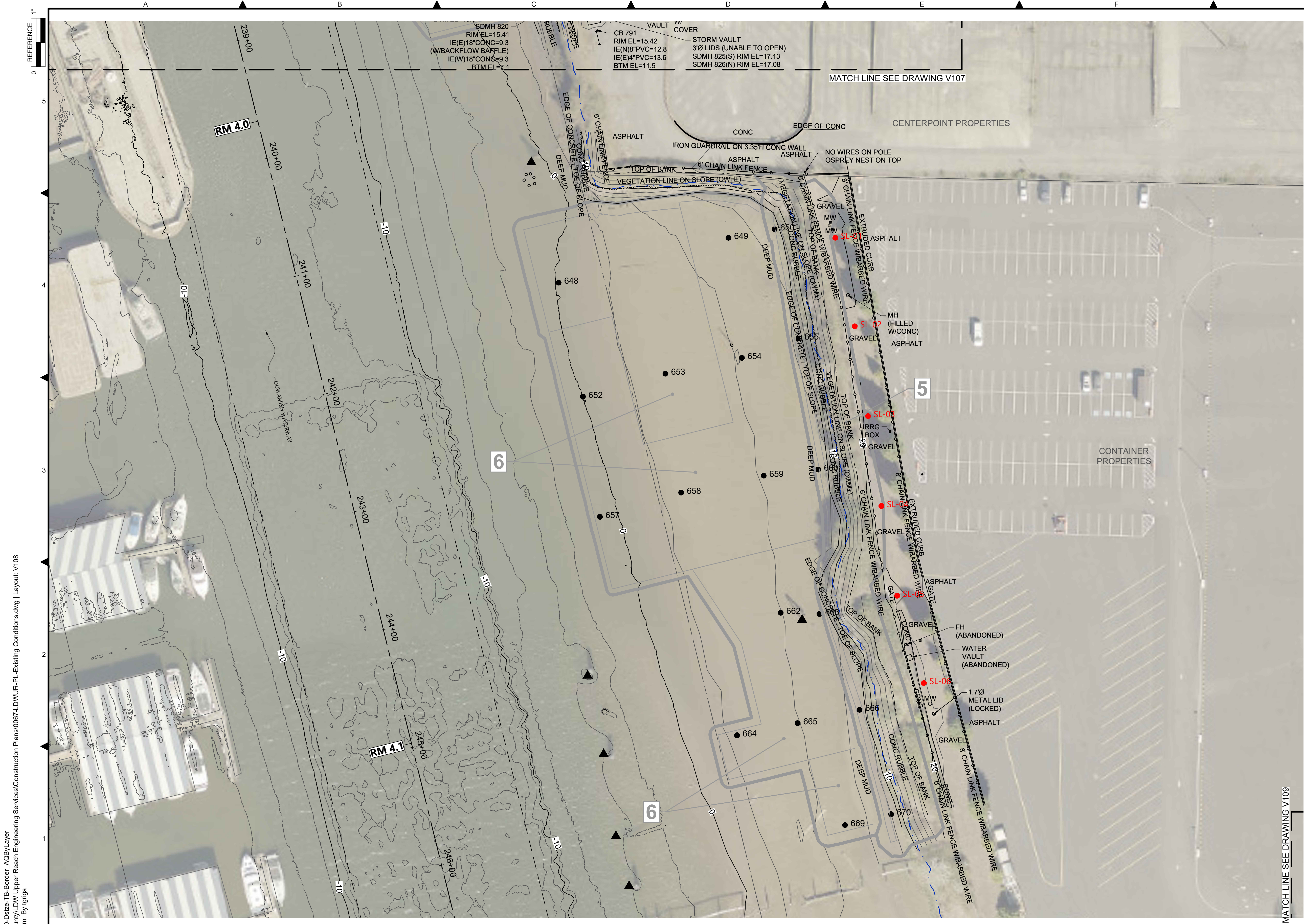
DESIGNED/DRAWN: K. GROSS	CHECKED: BIGSBY/GRIGA
PROJECT ENGINEER: J. LAPLANTE	SCALE: AS NOTED
DESIGN APPROVAL: T. WANG	PROJECT FILE NO: E00559E18
PROJECT ACCEPTANCE: PRJCT MNGR	CONTRACT NO: C0XXXXCX



DEPARTMENT OF NATURAL RESOURCES & PARKS
 WASTEWATER TREATMENT DIVISION
 LOWER DUWAMISH WATERWAY UPPER REACH
 SEDIMENT CLEANUP

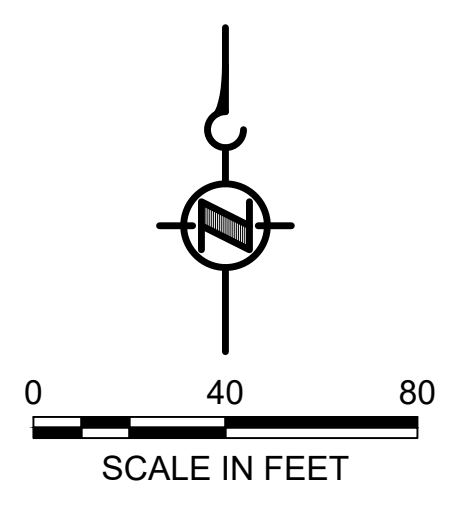
EXISTING CONDITIONS
 (RM 3.85 TO 3.99)

DATE: JULY 2023
DRAWING NO: V107
SHT NO / TOTAL 12 / 87
REV NO: 0



- LEGEND:**
- USACE CHANNEL CENTERLINE AND STATIONING
 - FEDERAL NAVIGATION CHANNEL
 - RM 3.0** RIVER MILE LABEL
 - KING COUNTY PARCEL (GIS)
 - LDW UPPER REACH APPROXIMATE BOUNDARY
 - EXISTING GRADE MERGED DATA SET CONTOURS (2' & 10' INTERVALS)
 - OUTFALL LOCATION (ACTIVE)
 - OUTFALL LOCATION (PRESUMED ABANDONED, INACTIVE, OR REMOVED)
 - DOLPHIN
 - PILE
 - VERTICAL DELINEATION CORE LOCATION
 - SEDIMENT MANAGEMENT AREA BOUNDARY
 - 14** SEDIMENT MANAGEMENT AREA NUMBER
 - UPLAND SAMPLE LOCATIONS

- NOTES:**
1. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83 (2011), U.S. SURVEY FEET
 2. VERTICAL DATUM: MLLW
 3. AERIAL SOURCE: KING COUNTY 2021
 4. THESE DRAWINGS DISPLAY THE LOCATION OF VERTICAL DELINEATION CORES ONLY. SEDIMENT CHARACTERIZATION DESIGN DATASET WILL BE PROVIDED TO CONTRACTOR.



COLOR IMAGE
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BORDER FILE EDITION: x:\KOVTD\size-TB-Border_ACBM\layer\gial\CAD\Projects\0067-King County\LDW Upper Reach Engineering Services\Construction Plans\0067-LDWUR-PL-Existing Conditions.dwg | Layout: V108
 PLOTTED: Jul 21, 2023 - 11:15:08pm By: tgriga

NO	REVISION DESCRIPTION	BY	APVD	DATE

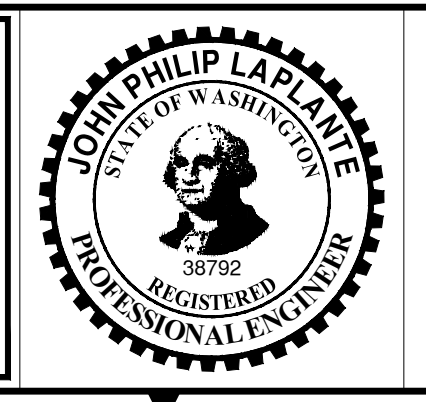
Lower Duwamish Waterway Group
 Port of Seattle / City of Seattle / King County / The Boeing Company

ANCHOR QEA

PRE-FINAL ISSUE DRAWING
 INFORMATION ONLY

90% DRAFT

JULY 2023



DESIGNED/DRAWN: K. GROSS	CHECKED: BIGSBY/GRIGA
PROJECT ENGINEER: J. LAPLANTE	SCALE: AS NOTED
DESIGN APPROVAL: T. WANG	PROJECT FILE NO: E00559E18
PROJECT ACCEPTANCE: PRJCT MNGR	CONTRACT NO: C0XXXXCXX



DEPARTMENT OF NATURAL RESOURCES & PARKS
 WASTEWATER TREATMENT DIVISION
 LOWER DUWAMISH WATERWAY UPPER REACH
 SEDIMENT CLEANUP

EXISTING CONDITIONS
 (RM 3.98 TO 4.13)

DATE: JULY 2023
DRAWING NO: V108
SHT NO / TOTAL 13 / 87
REV NO: 0

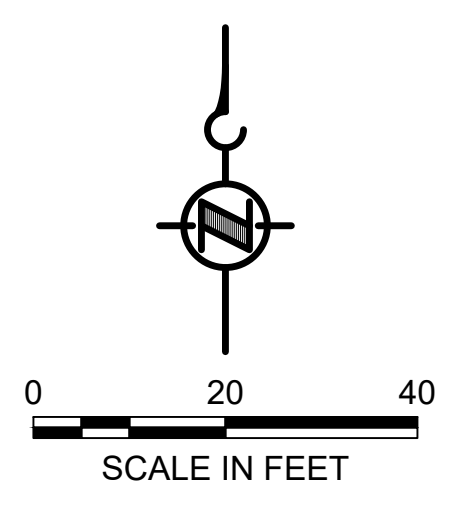
NOT FOR BIDDING

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 PLOTTED: Jul 21, 2023 - 11:55:33pm By: tgriga



- LEGEND:**
- USACE CHANNEL CENTERLINE AND STATIONING
 - FEDERAL NAVIGATION CHANNEL
 - RM 3.0** RIVER MILE LABEL
 - KING COUNTY PARCEL (GIS)
 - LDW UPPER REACH APPROXIMATE BOUNDARY
 - EXISTING GRADE MERGED DATA SET CONTOURS (2' & 10' INTERVALS)
 - OUTFALL LOCATION (ACTIVE)
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 - SEDIMENT MANAGEMENT AREA BOUNDARY
 - 14** SEDIMENT MANAGEMENT AREA NUMBER

- NOTES:**
1. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83 (2011), U.S. SURVEY FEET
 2. VERTICAL DATUM: MLLW
 3. AERIAL SOURCE: KING COUNTY 2021
 4. THESE DRAWINGS DISPLAY THE LOCATION OF VERTICAL DELINEATION CORES ONLY. SEDIMENT CHARACTERIZATION DESIGN DATASET WILL BE PROVIDED TO CONTRACTOR.



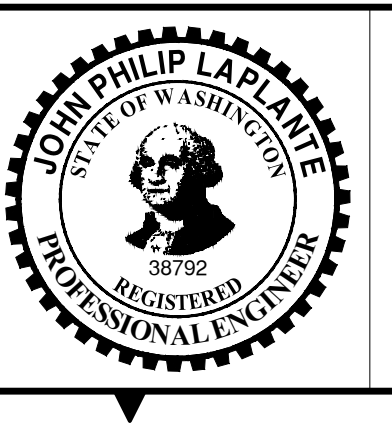
COLOR IMAGE
 THIS DRAWING IS COMPOSED USING COLOR IMAGES OR PHOTOGRAPHS AND MUST BE PLOTTED, PRINTED, AND REPRODUCED IN COLOR TO BE VIEWED ACCURATELY.

NOT FOR BIDDING

NO	REVISION DESCRIPTION	BY	APVD	DATE

Lower Duwamish Waterway Group
 Port of Seattle / City of Seattle / King County / The Boeing Company

PRE-FINAL ISSUE DRAWING
 INFORMATION ONLY
90% DRAFT
 JULY 2023



DESIGNED/DRAWN: K. GROSS	CHECKED: BIGSBY/GRIGA
PROJECT ENGINEER: J. LAPLANTE	SCALE: AS NOTED
DESIGN APPROVAL: T. WANG	PROJECT FILE NO: E00559E18
PROJECT ACCEPTANCE: PRJCT MNGR	CONTRACT NO: C0XXXXCXX



DEPARTMENT OF NATURAL RESOURCES & PARKS
 WASTEWATER TREATMENT DIVISION
 LOWER DUWAMISH WATERWAY UPPER REACH
 SEDIMENT CLEANUP

EXISTING CONDITIONS
 (RM 4.14 TO 4.23)

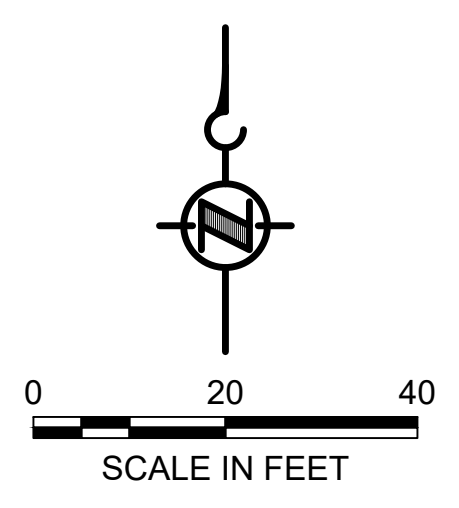
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DRAWING NO: V109
SHT NO / TOTAL 14 / 87
REV NO: 0

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 PLOTTED: Jul 21, 2023 - 11:16:39pm By: tgriga



- LEGEND:**
- USACE CHANNEL CENTERLINE AND STATIONING
 - FEDERAL NAVIGATION CHANNEL
 - RM 3.0** RIVER MILE LABEL
 - KING COUNTY PARCEL (GIS)
 - LDW UPPER REACH APPROXIMATE BOUNDARY
 - EXISTING GRADE MERGED DATA SET CONTOURS (2' & 10' INTERVALS)
 - OUTFALL LOCATION (ACTIVE)
 - OUTFALL LOCATION (PRESUMED ABANDONED, INACTIVE, OR REMOVED)
 - DOLPHIN
 - PILE
 - VERTICAL DELINEATION CORE LOCATION
 - SEDIMENT MANAGEMENT AREA BOUNDARY
 - 14** SEDIMENT MANAGEMENT AREA NUMBER

- NOTES:**
1. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83 (2011), U.S. SURVEY FEET
 2. VERTICAL DATUM: MLLW
 3. AERIAL SOURCE: KING COUNTY 2021
 4. THESE DRAWINGS DISPLAY THE LOCATION OF VERTICAL DELINEATION CORES ONLY. SEDIMENT CHARACTERIZATION DESIGN DATASET WILL BE PROVIDED TO CONTRACTOR.



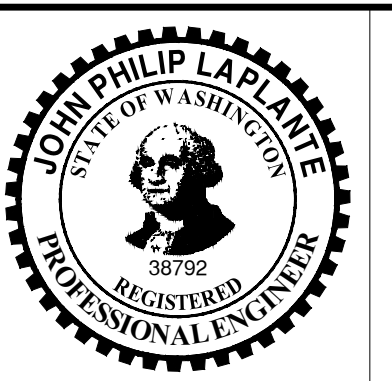
COLOR IMAGE
 THIS DRAWING IS COMPOSED USING COLOR IMAGES OR PHOTOGRAPHS AND MUST BE PLOTTED, PRINTED, AND REPRODUCED IN COLOR TO BE VIEWED ACCURATELY.

NOT FOR BIDDING

NO	REVISION DESCRIPTION	BY	APVD	DATE

Lower Duwamish Waterway Group
Port of Seattle / City of Seattle / King County / The Boeing Company

PRE-FINAL ISSUE DRAWING
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 JULY 2023

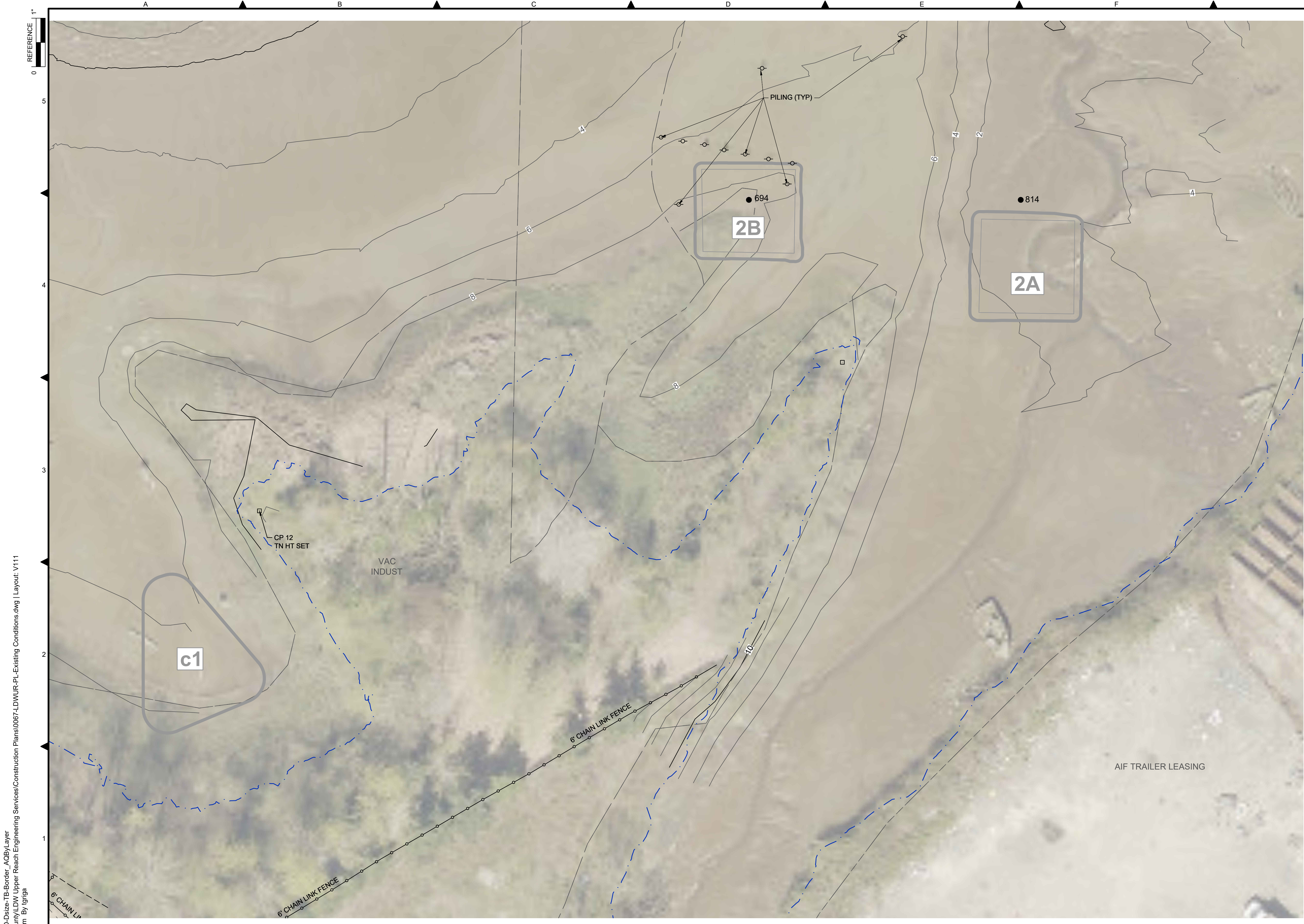


DESIGNED/DRAWN: K. GROSS	CHECKED: BIGSBY/GRIGA
PROJECT ENGINEER: J. LAPLANTE	SCALE: AS NOTED
DESIGN APPROVAL: T. WANG	PROJECT FILE NO: E00559E18
PROJECT ACCEPTANCE: PRJCT MNGR	CONTRACT NO: C0XXXXCXX



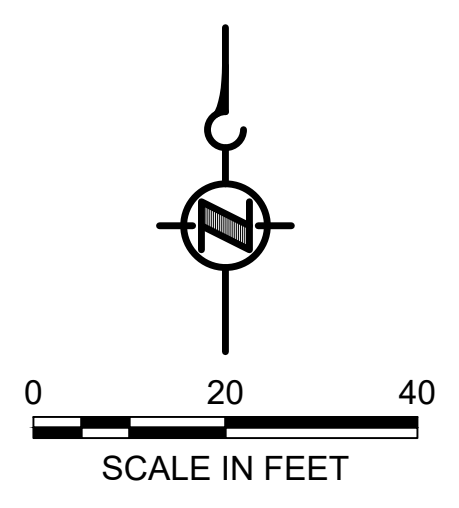
DEPARTMENT OF NATURAL RESOURCES & PARKS
 WASTEWATER TREATMENT DIVISION
 LOWER DUWAMISH WATERWAY UPPER REACH
 SEDIMENT CLEANUP
EXISTING CONDITIONS
(RM 4.57 TO 4.66)

DATE: JULY 2023
DRAWING NO: V110
SHT NO / TOTAL REV NO: 15 / 87 0



- LEGEND:**
- USACE CHANNEL CENTERLINE AND STATIONING
 - FEDERAL NAVIGATION CHANNEL
 - RM 3.0** RIVER MILE LABEL
 - KING COUNTY PARCEL (GIS)
 - LDW UPPER REACH APPROXIMATE BOUNDARY
 - EXISTING GRADE MERGED DATA SET CONTOURS (2' & 10' INTERVALS)
 - OUTFALL LOCATION (ACTIVE)
 - OUTFALL LOCATION (PRESUMED ABANDONED, INACTIVE, OR REMOVED)
 - DOLPHIN
 - PILE
 - VERTICAL DELINEATION CORE LOCATION
 - SEDIMENT MANAGEMENT AREA BOUNDARY
 - 14** SEDIMENT MANAGEMENT AREA NUMBER

- NOTES:**
1. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83 (2011), U.S. SURVEY FEET
 2. VERTICAL DATUM: MLLW
 3. AERIAL SOURCE: KING COUNTY 2021
 4. THESE DRAWINGS DISPLAY THE LOCATION OF VERTICAL DELINEATION CORES ONLY. SEDIMENT CHARACTERIZATION DESIGN DATASET WILL BE PROVIDED TO CONTRACTOR.

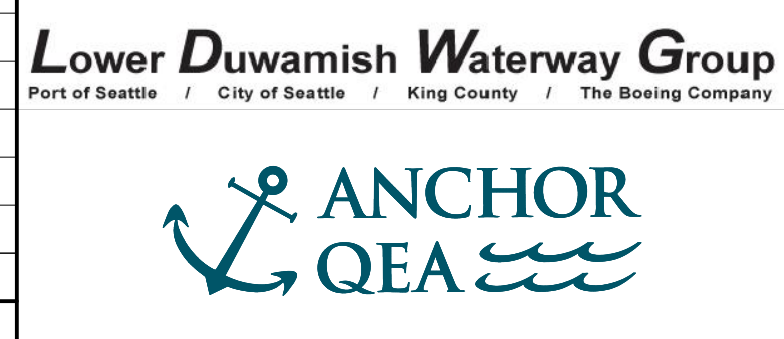


COLOR IMAGE
 THIS DRAWING IS COMPOSED USING COLOR IMAGES OR PHOTOGRAPHS AND MUST BE PLOTTED, PRINTED, AND REPRODUCED IN COLOR TO BE VIEWED ACCURATELY.

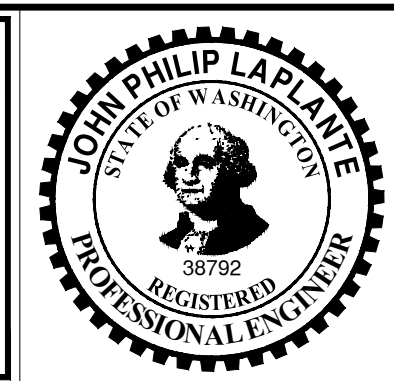
NOT FOR BIDDING

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 PLOTTED: Jul 21, 2023 - 11:17:24pm By: tgriga

NO	REVISION DESCRIPTION	BY	APVD	DATE



PRE-FINAL ISSUE DRAWING
 INFORMATION ONLY
90% DRAFT
 JULY 2023



DESIGNED/DRAWN: K. GROSS
 PROJECT ENGINEER: J. LAPLANTE
 DESIGN APPROVAL: T. WANG
 PROJECT ACCEPTANCE: PRJCT MNGR

CHECKED: BIGSBY/GRIGA
 SCALE: AS NOTED
 PROJECT FILE NO: E00559E18
 CONTRACT NO: C0XXXXCXX

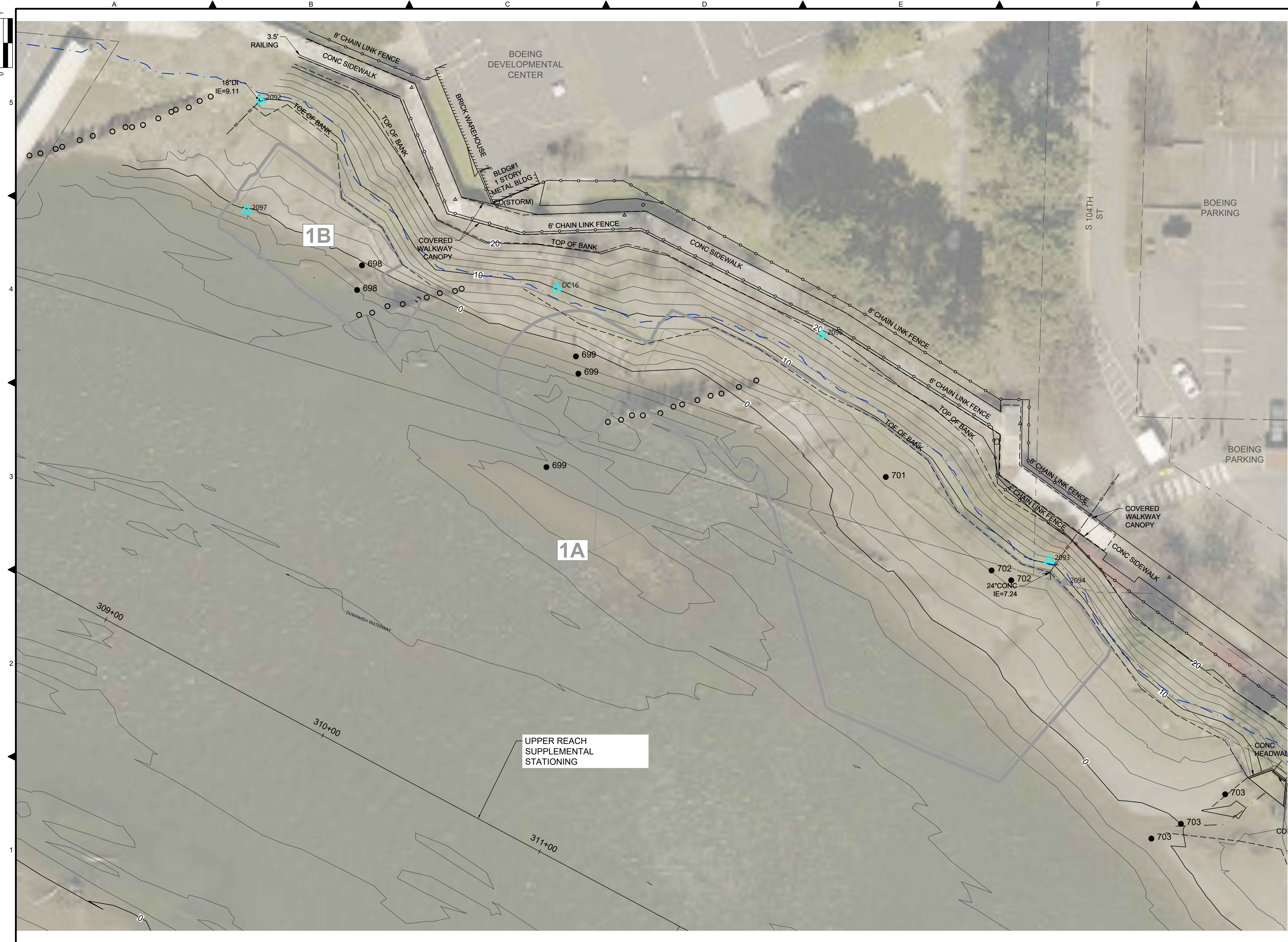


DEPARTMENT OF NATURAL RESOURCES & PARKS
 WASTEWATER TREATMENT DIVISION
 LOWER DUWAMISH WATERWAY UPPER REACH
 SEDIMENT CLEANUP

EXISTING CONDITIONS
 (RM 4.64 TO 4.76)

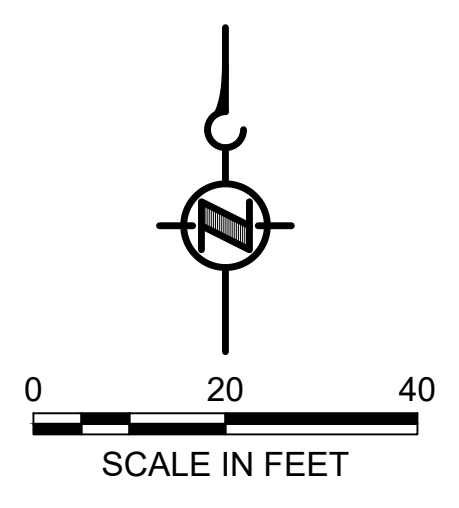
DATE: JULY 2023
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 SHET NO / TOTAL: 16 / 87
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 PLOTTED: Jul 21, 2023 - 11:18:08pm By: triga



- LEGEND:**
- USACE CHANNEL CENTERLINE AND STATIONING
 - FEDERAL NAVIGATION CHANNEL
 - RM 3.0** RIVER MILE LABEL
 - KING COUNTY PARCEL (GIS)
 - LDW UPPER REACH APPROXIMATE BOUNDARY
 - EXISTING GRADE MERGED DATA SET CONTOURS (2' & 10' INTERVALS)
 - OUTFALL LOCATION (ACTIVE)
 - OUTFALL LOCATION (PRESUMED ABANDONED, INACTIVE, OR REMOVED)
 - DOLPHIN
 - PILE
 - VERTICAL DELINEATION CORE LOCATION
 - SEDIMENT MANAGEMENT AREA BOUNDARY
 - 14** SEDIMENT MANAGEMENT AREA NUMBER

- NOTES:**
1. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83 (2011), U.S. SURVEY FEET
 2. VERTICAL DATUM: MLLW
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 4. THESE DRAWINGS DISPLAY THE LOCATION OF VERTICAL DELINEATION CORES ONLY. SEDIMENT CHARACTERIZATION DESIGN DATASET WILL BE PROVIDED TO CONTRACTOR.



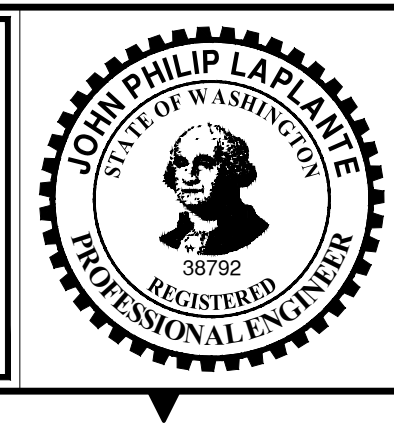
COLOR IMAGE
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NOT FOR BIDDING

NO	REVISION DESCRIPTION	BY	APVD	DATE

Lower Duwamish Waterway Group
Port of Seattle / City of Seattle / King County / The Boeing Company

PRE-FINAL ISSUE DRAWING
 INFORMATION ONLY
90% DRAFT
 JULY 2023



DESIGNED/DRAWN: K. GROSS	CHECKED: BIGSBY/GRIGA
PROJECT ENGINEER: J. LAPLANTE	SCALE: AS NOTED
DESIGN APPROVAL: T. WANG	PROJECT FILE NO: E00559E18
PROJECT ACCEPTANCE: PRJCT MNGR	CONTRACT NO: C0XXXXCXX



DEPARTMENT OF NATURAL RESOURCES & PARKS
 WASTEWATER TREATMENT DIVISION
**LOWER DUWAMISH WATERWAY UPPER REACH
 SEDIMENT CLEANUP**
EXISTING CONDITIONS
(RM 4.84 TO 4.95)

DATE: JULY 2023	DRAWING NO: V112
SHT NO / TOTAL 17 / 87	REV NO: 0

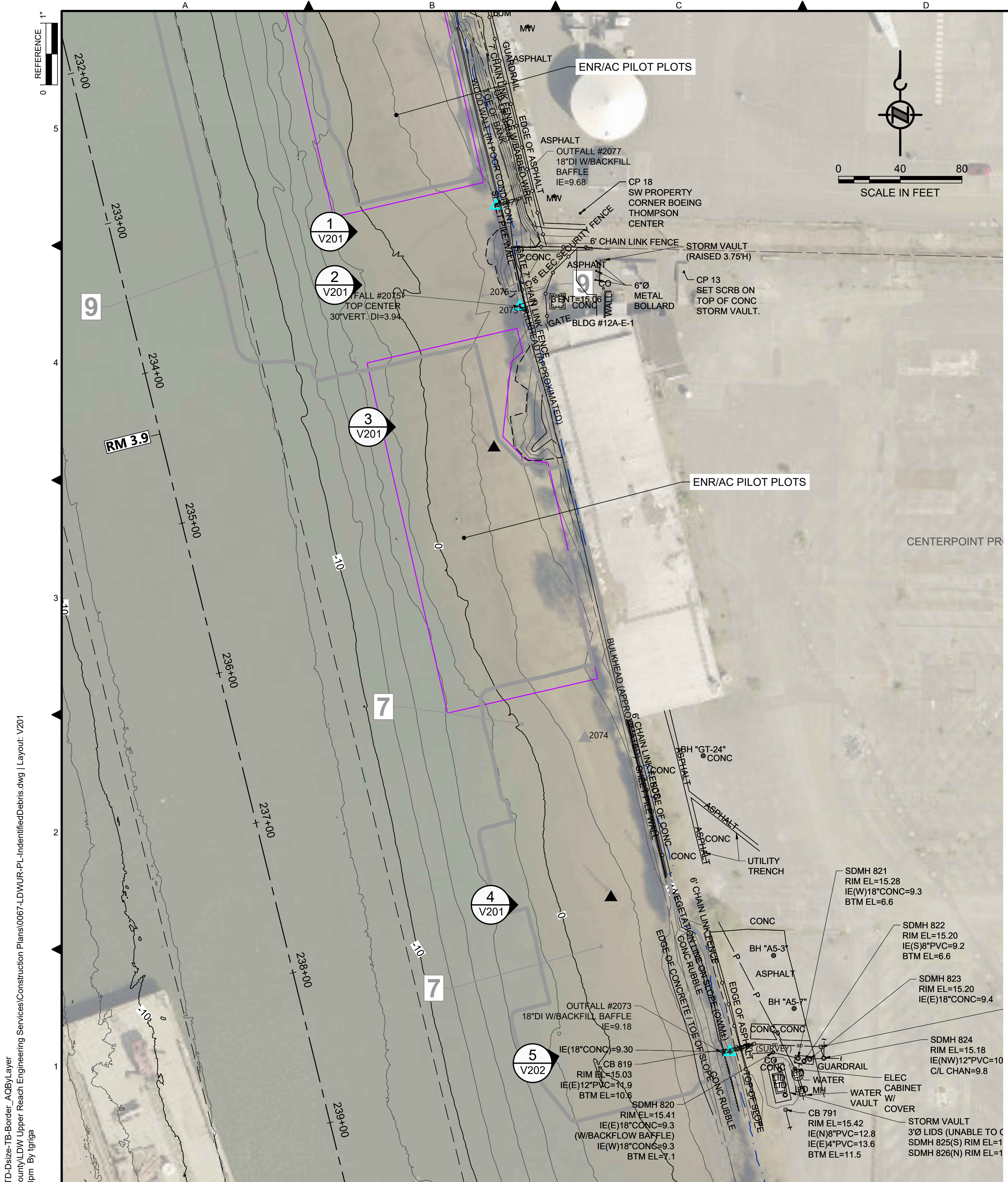


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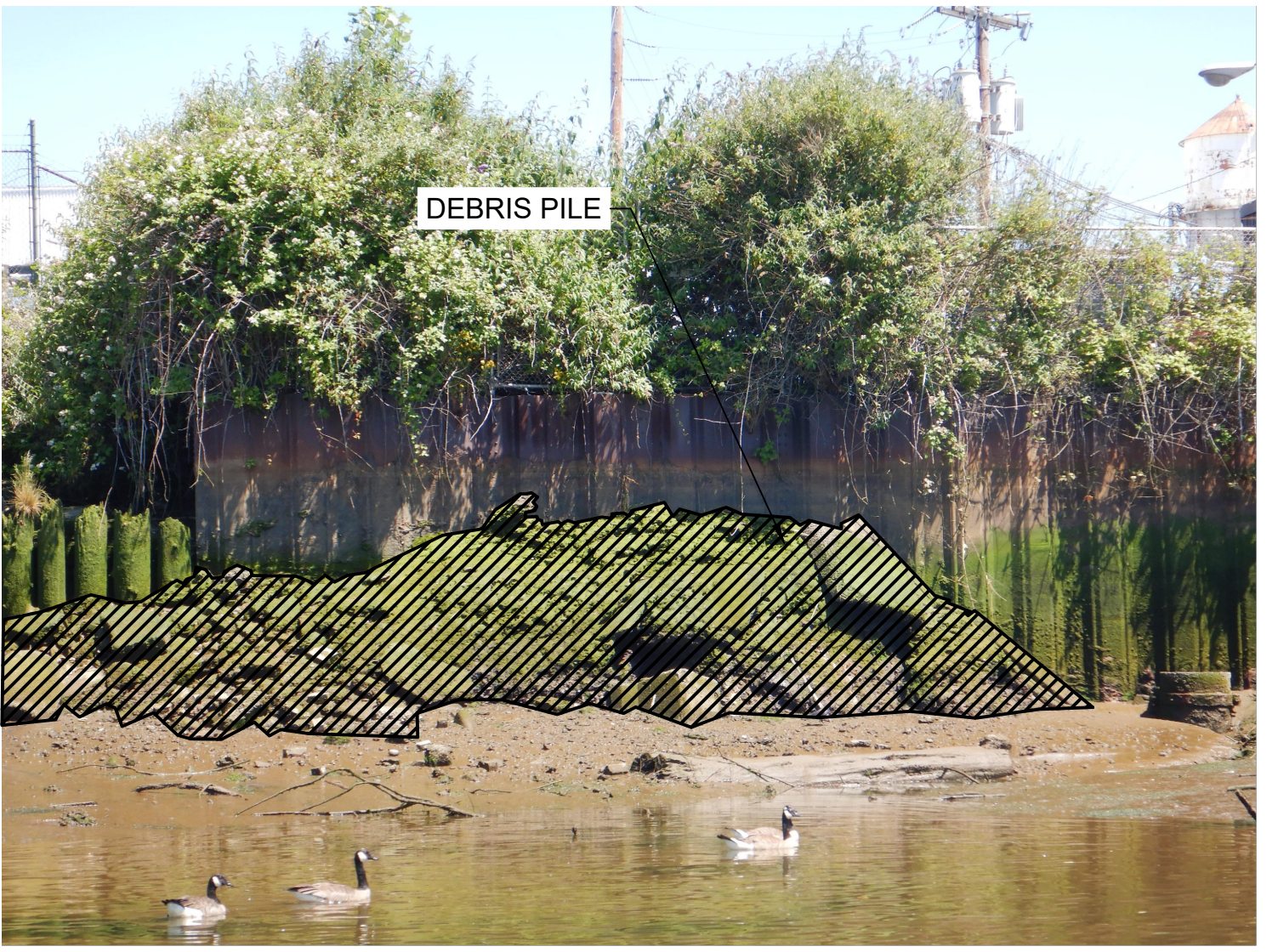


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PHOTO ID 837
SCALE: NONE



PHOTO ID 829
SCALE: NONE

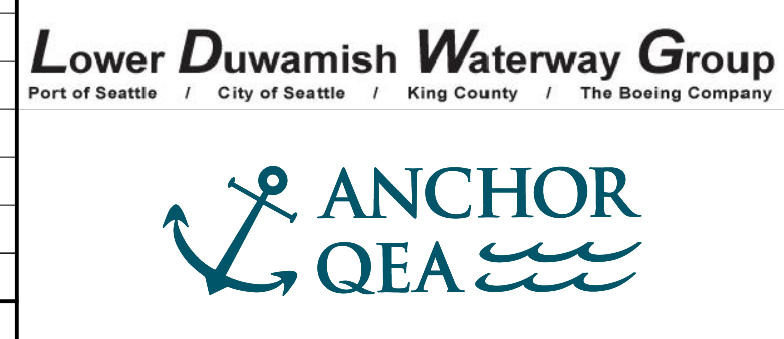
- LEGEND:**
- USACE CHANNEL CENTERLINE AND STATIONING
 - FEDERAL NAVIGATION CHANNEL
 - RM 3.0** RIVER MILE LABEL
 - KING COUNTY PARCEL (GIS)
 - LDW UPPER REACH APPROXIMATE BOUNDARY
 - EXISTING GRADE MERGED DATA SET CONTOURS (2' & 10' INTERVALS)
 - OUTFALL LOCATION (ACTIVE)
 - OUTFALL LOCATION (PRESUMED ABANDONED, INACTIVE, OR REMOVED)
 - DOLPHINS
 - PILES
 - SEDIMENT MANAGEMENT AREA BOUNDARY
 - 14** SEDIMENT MANAGEMENT AREA NUMBER
 - PILOT PLOTS

- NOTES:**
1. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83 (2011), U.S. SURVEY FEET
 2. VERTICAL DATUM: MLLW
 3. AERIAL SOURCE: KING COUNTY 2021
 4. CONTRACTOR SHALL REMOVE PILING AS SHOWN ON THE PLANS AND AS INDICATED IN THE PHOTOGRAPHS (32 PILING ESTIMATED FOR REMOVAL). IF ADDITIONAL PILING ARE ENCOUNTERED IN THE DREDGE PRISM, CONTRACTOR SHALL COORDINATE WITH THE PROJECT REPRESENTATIVE PRIOR TO REMOVAL. PHOTOGRAPH POINT LOCATIONS AND INDICATION OF DIRECTION ARE APPROXIMATE.

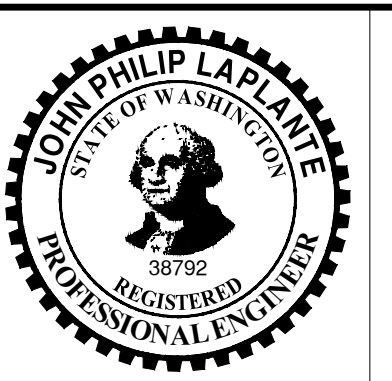
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BORDER FILE EDITION: x:\KOVTD\size-TB-Border_ACBM\layer\gial\CAD\Projects\0067-King County\LDW Upper Reach Engineering Services\Construction Plans\0067-LDWUR-PL_IndenifiedDebris.dwg | Layout: V201
PLOTTED: Jul 21, 2023 - 11:19:58pm By: tgriga

NO	REVISION DESCRIPTION	BY	APVD	DATE



PRE-FINAL ISSUE DRAWING
INFORMATION ONLY
90% DRAFT
JULY 2023



DESIGNED/DRAWN: J. COOPER
PROJECT ENGINEER: J. LAPLANTE
DESIGN APPROVAL: T. WANG
PROJECT ACCEPTANCE: PRJCT MNGR

CHECKED: BIGSBY/GRIGA
SCALE: AS NOTED
PROJECT FILE NO: E00559E18
CONTRACT NO: C0XXXXCX

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
LOCATION OF IDENTIFIED DEBRIS AND PILING FOR REMOVAL (1 OF 5)

DATE: JULY 2023
DRAWING NO: **V201**
SHT NO / TOTAL: 18 / 87
REV NO: **0**

NOT FOR BIDDING



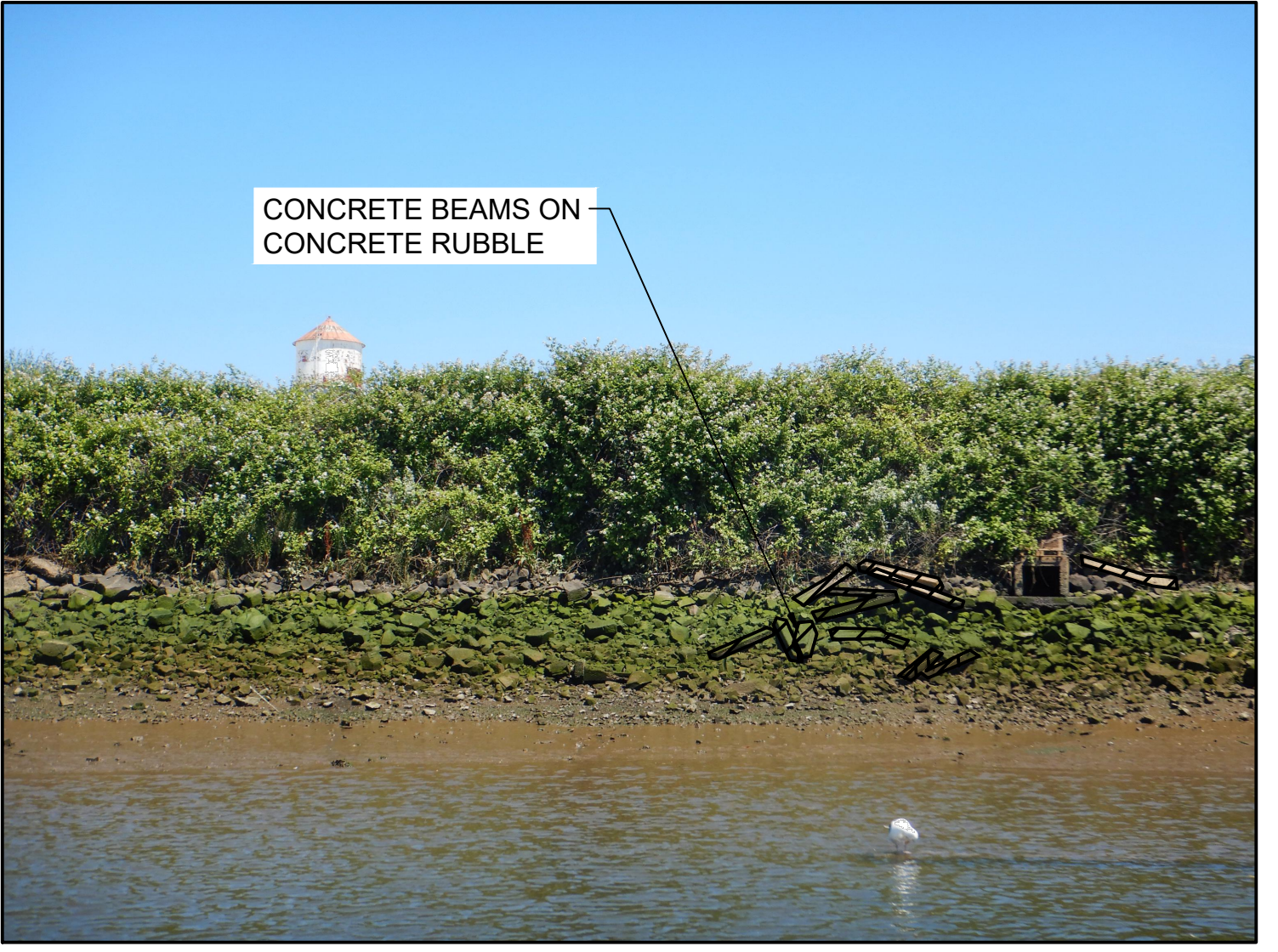
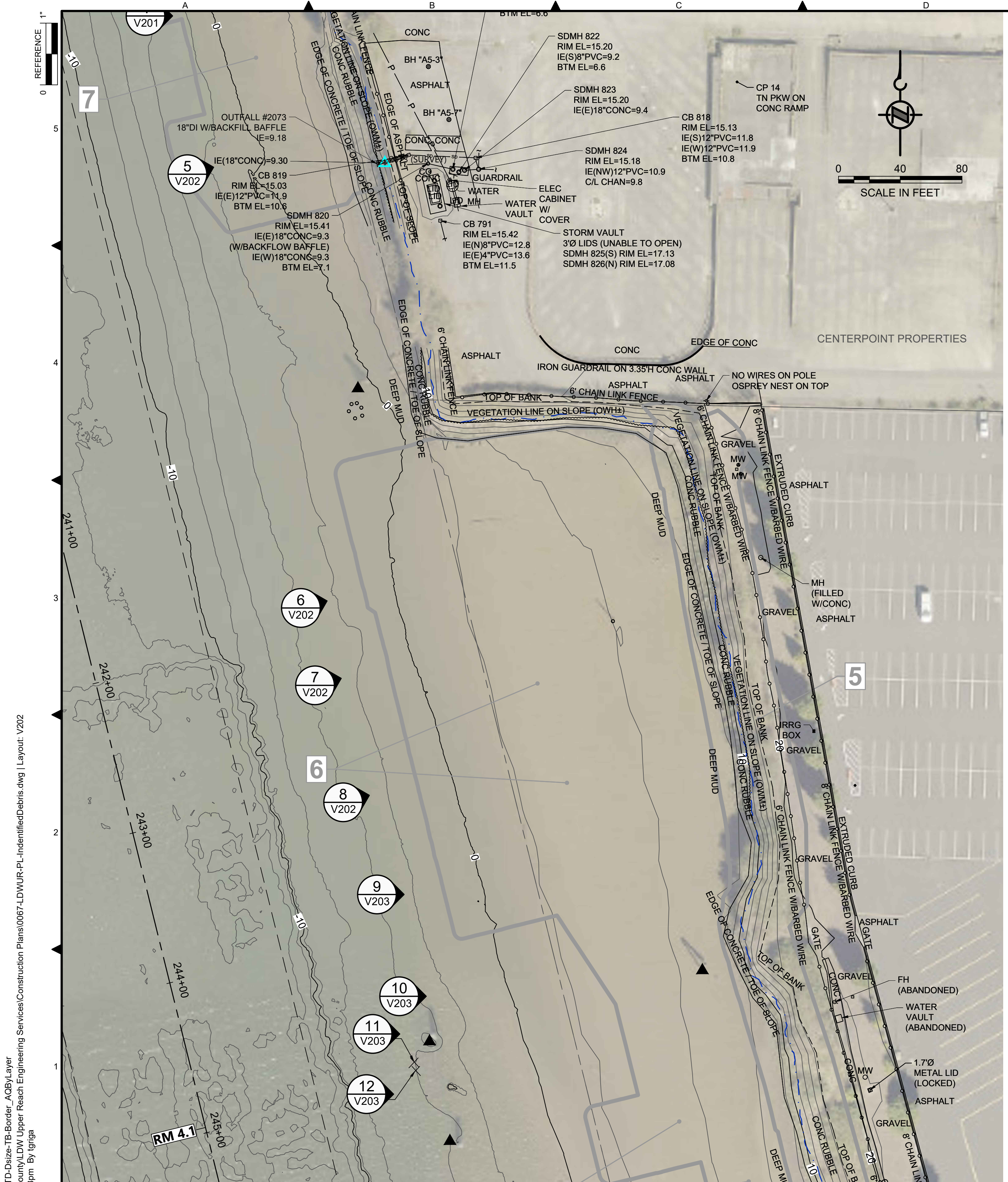


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PHOTO ID 821
SCALE: NONE

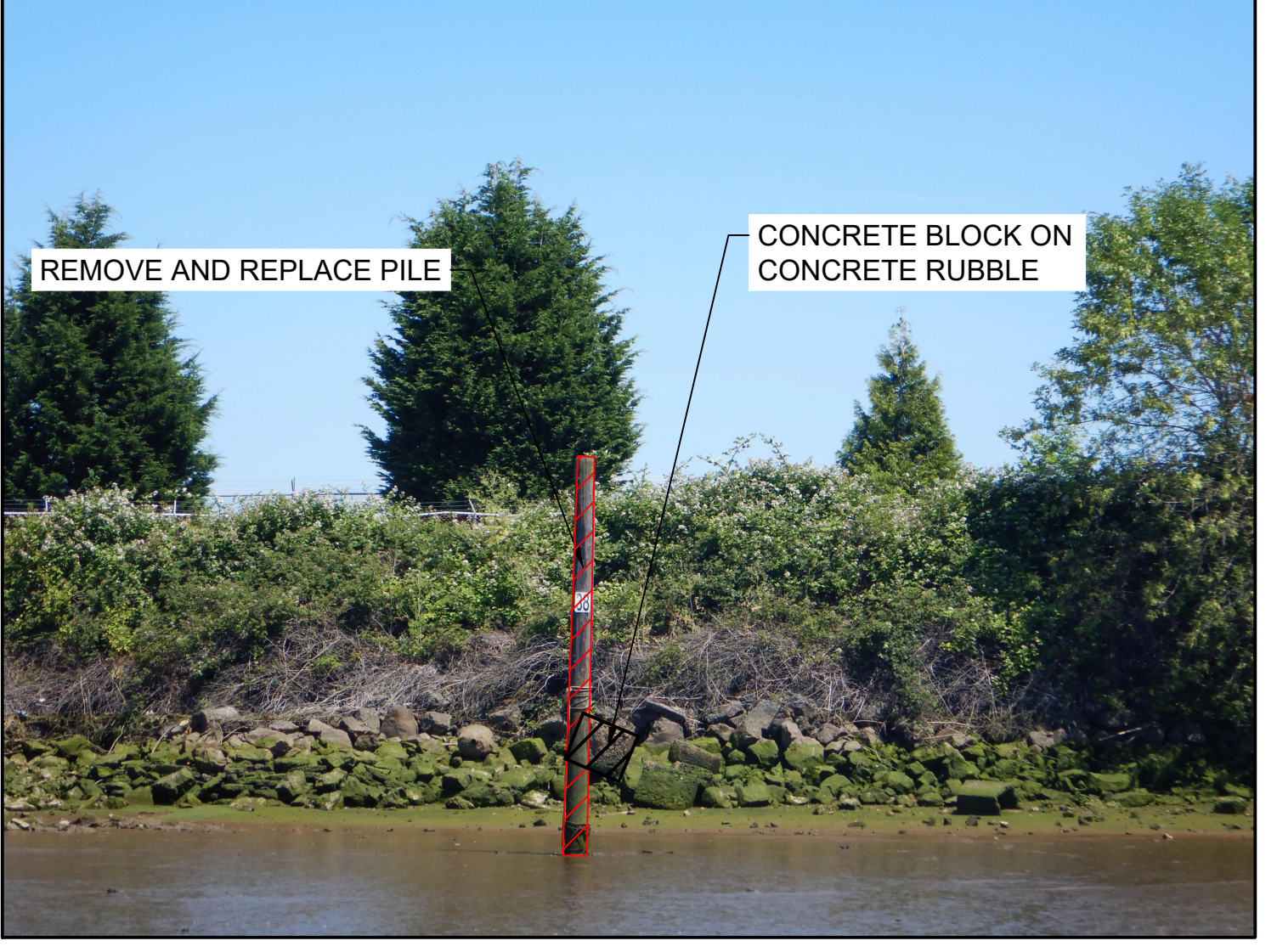


PHOTO ID 820
SCALE: NONE



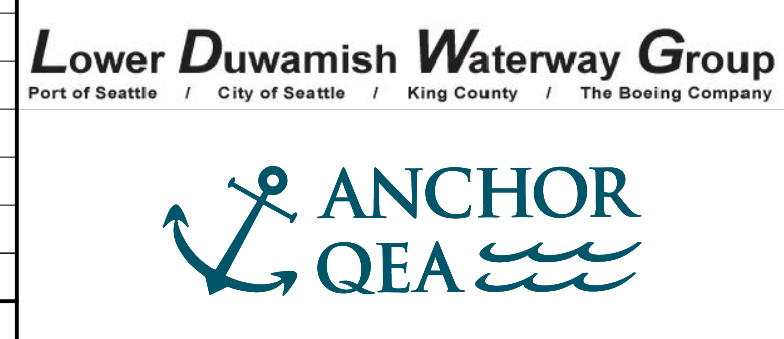
PHOTO ID 819
SCALE: NONE

- LEGEND:**
- USACE CHANNEL CENTERLINE AND STATIONING
 - FEDERAL NAVIGATION CHANNEL
 - RIVER MILE LABEL
 - KING COUNTY PARCEL (GIS)
 - LDW UPPER REACH APPROXIMATE BOUNDARY
 - EXISTING GRADE MERGED DATA SET CONTOURS (2' & 10' INTERVALS)
 - OUTFALL LOCATION (ACTIVE)
 - OUTFALL LOCATION (PRESUMED ABANDONED, INACTIVE, OR REMOVED)
 - DOLPHINS
 - PILES
 - SEDIMENT MANAGEMENT AREA BOUNDARY
 - SEDIMENT MANAGEMENT AREA NUMBER

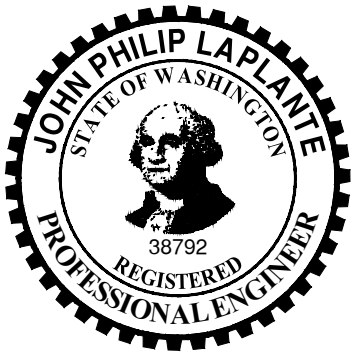
- NOTES:**
1. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83 (2011), U.S. SURVEY FEET
 2. VERTICAL DATUM: MLLW
 3. AERIAL SOURCE: KING COUNTY 2021
 4. CONTRACTOR SHALL REMOVE PILING AS SHOWN ON THE PLANS AND AS INDICATED IN THE PHOTOGRAPHS (32 PILING ESTIMATED FOR REMOVAL). IF ADDITIONAL PILINGS ARE ENCOUNTERED IN THE DREDGE PRISM, CONTRACTOR SHALL COORDINATE WITH THE PROJECT REPRESENTATIVE PRIOR TO REMOVAL. PHOTOGRAPH POINT LOCATIONS AND INDICATION OF DIRECTION ARE APPROXIMATE.

COLOR IMAGE
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BORDER FILE EDITION: x:\KOVTD\size-TB-Border_ACBM\layer\gial\CAD\Projects\0067-King County\LDW Upper Reach Engineering Services\Construction Plans\0067-LDWUR-PL_IndenifiedDebris.dwg | Layout: V202
PLOTTED: Jul 21, 2023 - 11:20:43pm By: tgriga



PRE-FINAL ISSUE DRAWING
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JULY 2023



DESIGNED/DRAWN: J. COOPER
PROJECT ENGINEER: J. LAPLANTE
DESIGN APPROVAL: T. WANG
PROJECT ACCEPTANCE: PRJCT MNGR

CHECKED: BIGSBY/GRIGA
SCALE: AS NOTED
PROJECT FILE NO: E00559E18
CONTRACT NO: C0XXXXCX



DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
LOWER DUWAMISH WATERWAY UPPER REACH
SEDIMENT CLEANUP
LOCATION OF IDENTIFIED DEBRIS AND PILING FOR REMOVAL (2 OF 5)

DATE: JULY 2023
DRAWING NO: **V202**
SHT NO / TOTAL: 19 / 87
REV NO: **0**

NOT FOR BIDDING

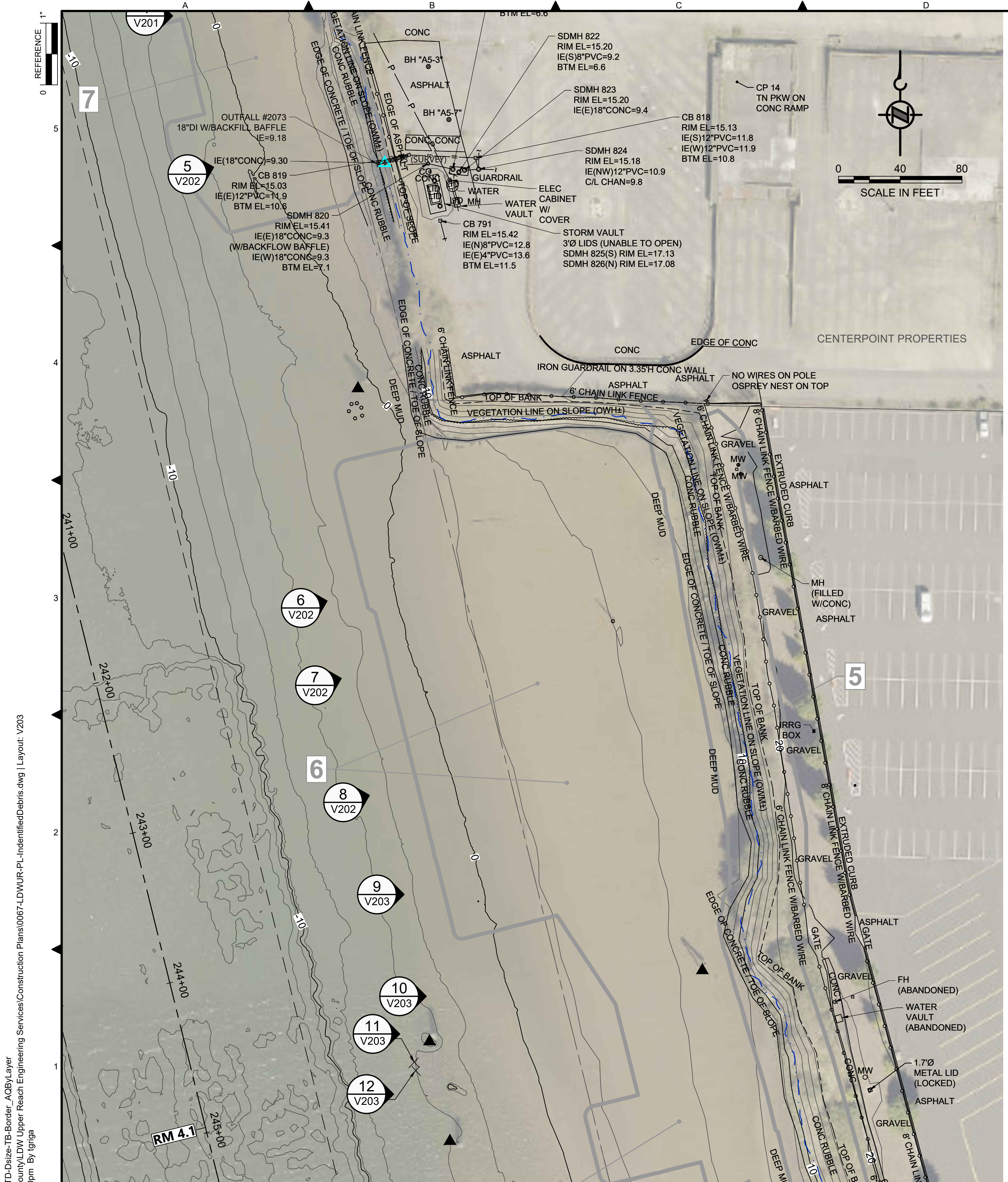


PHOTO ID 818
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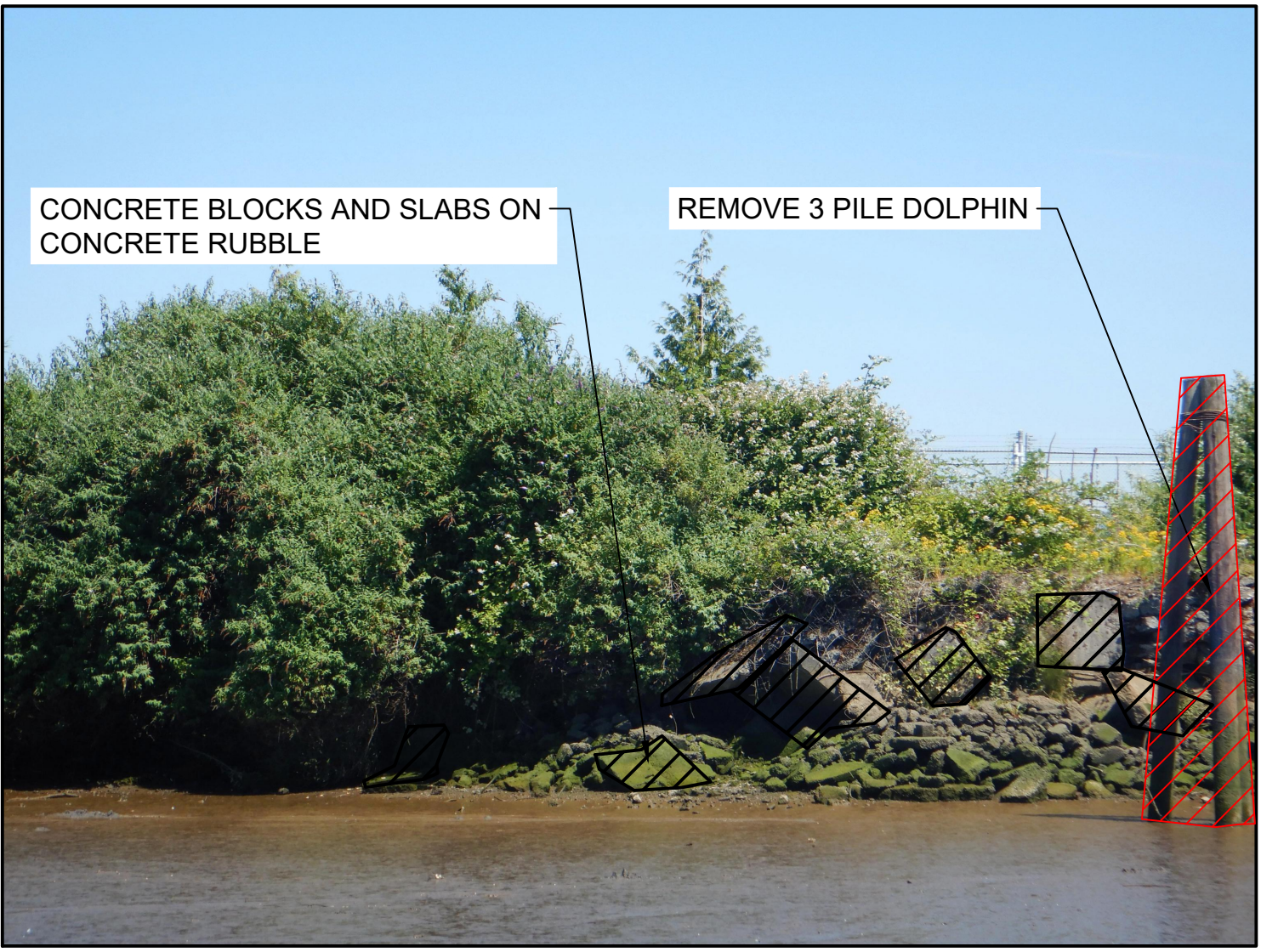


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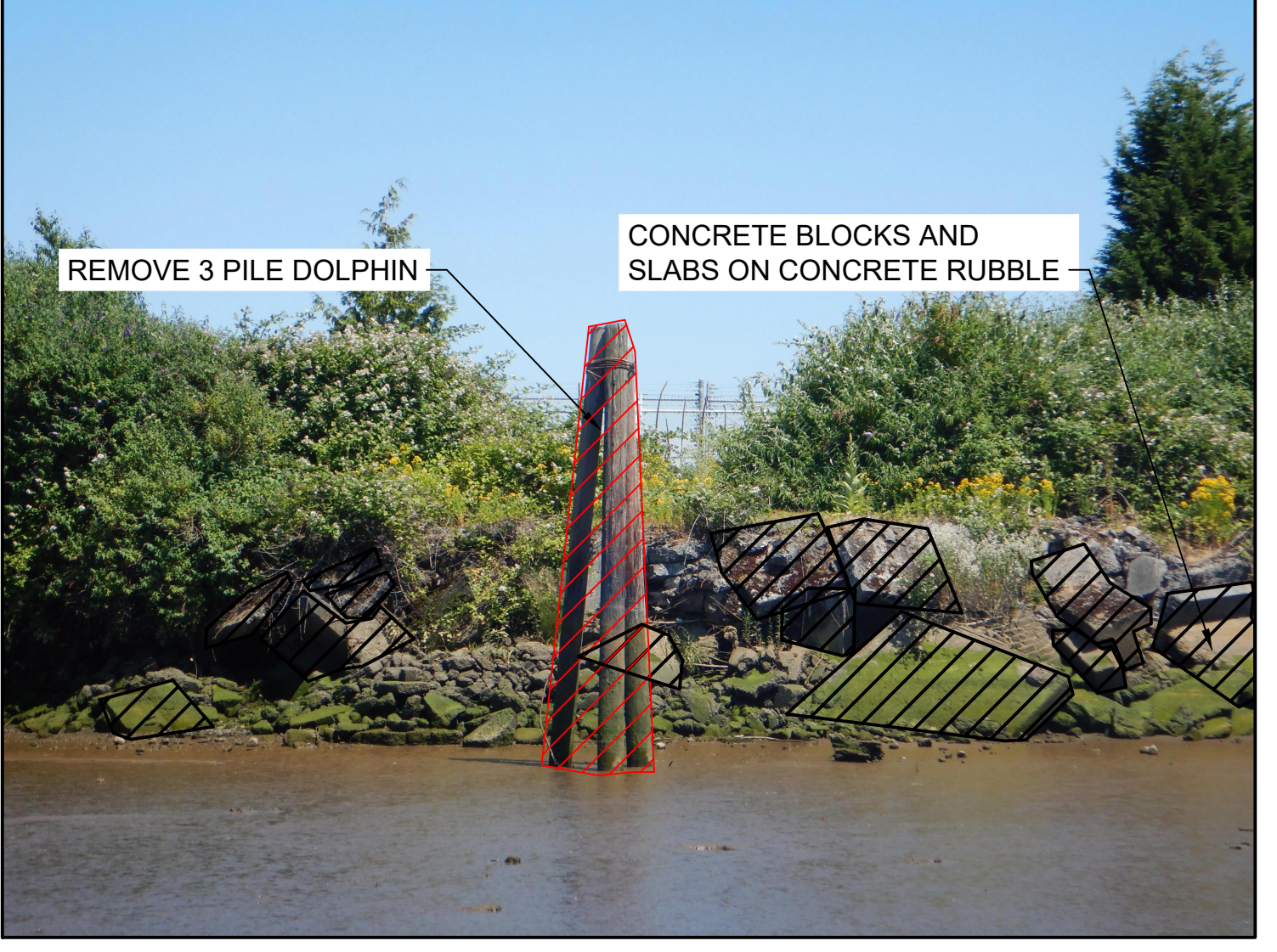


PHOTO ID 816
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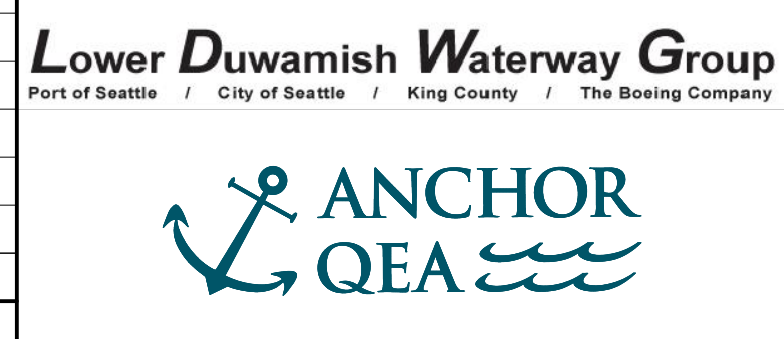
PHOTO ID 815
SCALE: NONE

- LEGEND:**
- USACE CHANNEL CENTERLINE AND STATIONING
 - FEDERAL NAVIGATION CHANNEL
 - RIVER MILE LABEL
 - KING COUNTY PARCEL (GIS)
 - LDW UPPER REACH APPROXIMATE BOUNDARY
 - EXISTING GRADE MERGED DATA SET CONTOURS (2' & 10' INTERVALS)
 - OUTFALL LOCATION (ACTIVE)
 - OUTFALL LOCATION (PRESUMED ABANDONED, INACTIVE, OR REMOVED)
 - DOLPHINS
 - PILES
 - SEDIMENT MANAGEMENT AREA BOUNDARY
 - SEDIMENT MANAGEMENT AREA NUMBER

- NOTES:**
1. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83 (2011), U.S. SURVEY FEET
 2. VERTICAL DATUM: MLLW
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COLOR IMAGE
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BORDER FILE EDITION: x:\KOVTD\size-TB-Border_ACBM\layer
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PLOTTED: Jul 21, 2023 - 11:21:30pm By: tgriga



PRE-FINAL ISSUE DRAWING
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90% DRAFT
JULY 2023



DESIGNED/DRAWN: J. COOPER
PROJECT ENGINEER: J. LAPLANTE
DESIGN APPROVAL: T. WANG
PROJECT ACCEPTANCE: PRJCT MNGR

CHECKED: BIGSBY/GRIGA
SCALE: AS NOTED
PROJECT FILE NO: E00559E18
CONTRACT NO: C0XXXXCX



DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
LOWER DUWAMISH WATERWAY UPPER REACH
SEDIMENT CLEANUP
LOCATION OF IDENTIFIED DEBRIS AND PILING FOR REMOVAL (3 OF 5)

DATE: JULY 2023
DRAWING NO: **V203**
SHT NO / TOTAL: 20 / 87
REV NO: **0**

NOT FOR BIDDING

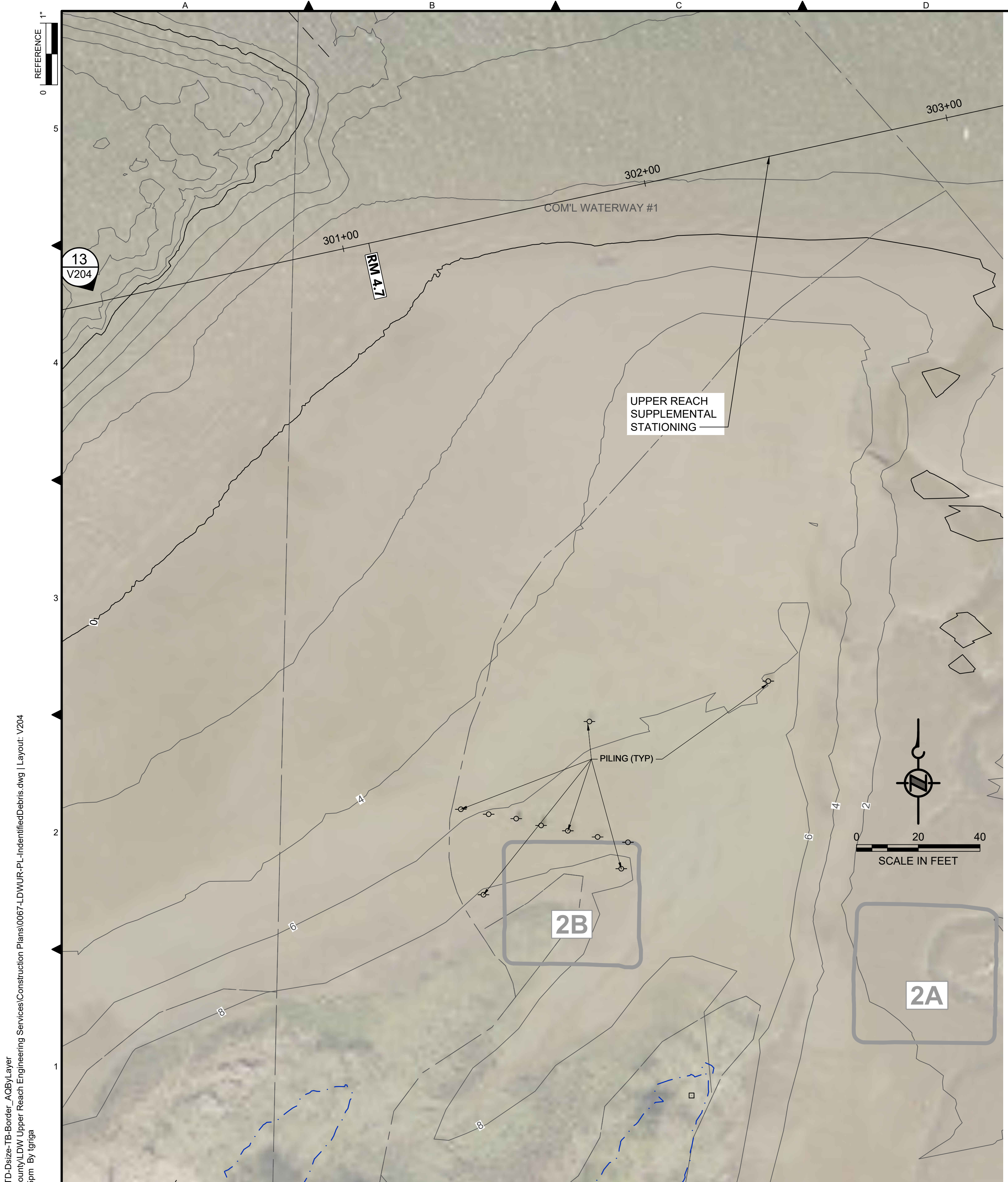


PHOTO ID 852
SCALE: NONE

- LEGEND:**
- USACE CHANNEL CENTERLINE AND STATIONING
 - FEDERAL NAVIGATION CHANNEL
 - RIVER MILE LABEL
 - KING COUNTY PARCEL (GIS)
 - LDW UPPER REACH APPROXIMATE BOUNDARY
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 - OUTFALL LOCATION (ACTIVE)
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 - DOLPHINS
 - PILES
 - SEDIMENT MANAGEMENT AREA BOUNDARY
 - SEDIMENT MANAGEMENT AREA NUMBER

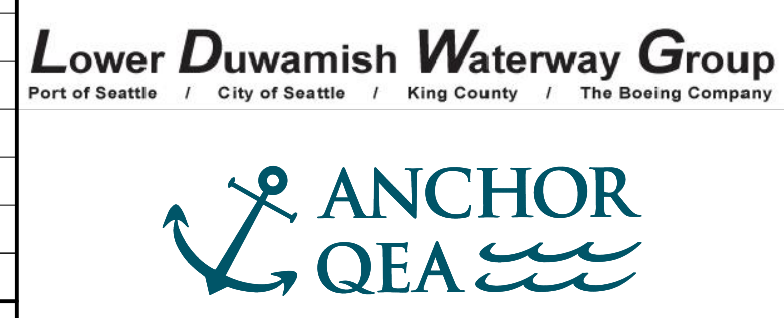
- NOTES:**
1. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83 (2011), U.S. SURVEY FEET
 2. VERTICAL DATUM: MLLW
 3. AERIAL SOURCE: KING COUNTY 2021
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COLOR IMAGE
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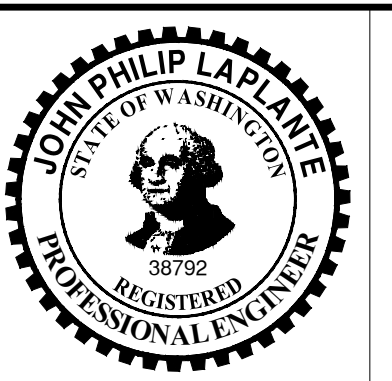
NOT FOR BIDDING

BORDER FILE EDITION: x:\KOV\TD\size-TB-Border_ACBM\layer\gial\CAD\Projects\0067-King County\LDW Upper Reach Engineering Services\Construction Plans\0067-LDWUR-PL_IndenifiedDebris.dwg | Layout: V204
PLOTTED: Jul 21, 2023 - 11:22:15pm By: tgriga

NO	REVISION DESCRIPTION	BY	APVD	DATE



PRE-FINAL ISSUE DRAWING
INFORMATION ONLY
90% DRAFT
JULY 2023



DESIGNED/DRAWN: J. COOPER
PROJECT ENGINEER: J. LAPLANTE
DESIGN APPROVAL: T. WANG
PROJECT ACCEPTANCE: PRJCT MNGR

CHECKED: BIGSBY/GRIGA
SCALE: AS NOTED
PROJECT FILE NO: E00559E18
CONTRACT NO: C0XXXXCXX



DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
LOWER DUWAMISH WATERWAY UPPER REACH
SEDIMENT CLEANUP
LOCATION OF IDENTIFIED DEBRIS AND PILING FOR REMOVAL (4 OF 5)

DATE: JULY 2023
DRAWING NO: **V204**
SHT NO / TOTAL: 21 / 87
REV NO: **0**

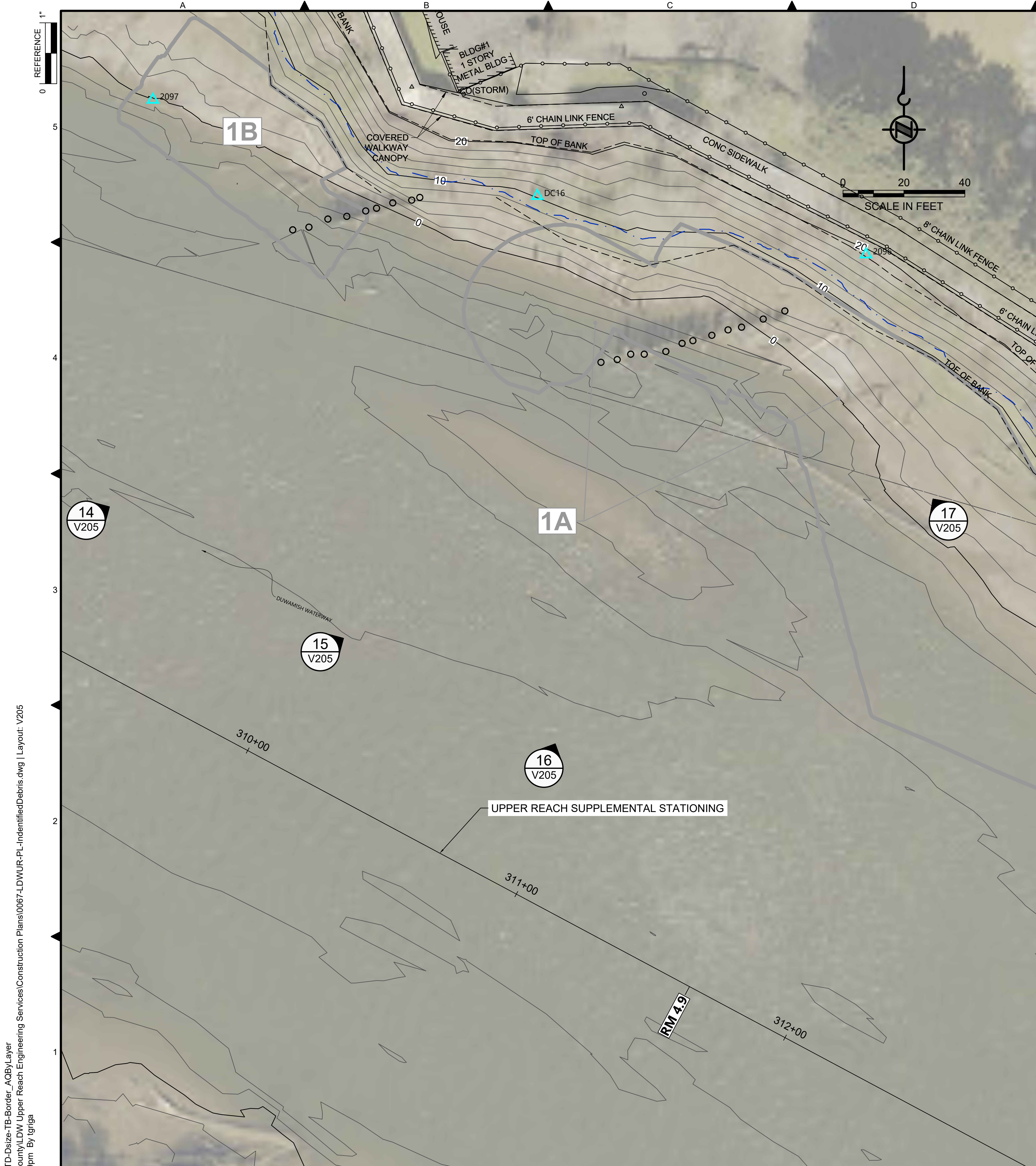


PHOTO ID 433
SCALE: NONE

14
V205



PHOTO ID 430
SCALE: NONE

15
V205



PHOTO ID 427
SCALE: NONE

16
V205



PHOTO ID 233
SCALE: NONE

17
V205

- LEGEND:**
- USACE CHANNEL CENTERLINE AND STATIONING
 - FEDERAL NAVIGATION CHANNEL
 - RIVER MILE LABEL
 - KING COUNTY PARCEL (GIS)
 - LDW UPPER REACH APPROXIMATE BOUNDARY
 - EXISTING GRADE MERGED DATA SET CONTOURS (2' & 10' INTERVALS)
 - OUTFALL LOCATION (ACTIVE)
 - OUTFALL LOCATION (PRESUMED ABANDONED, INACTIVE, OR REMOVED)
 - DOLPHINS
 - PILES
 - SEDIMENT MANAGEMENT AREA BOUNDARY
 - SEDIMENT MANAGEMENT AREA NUMBER

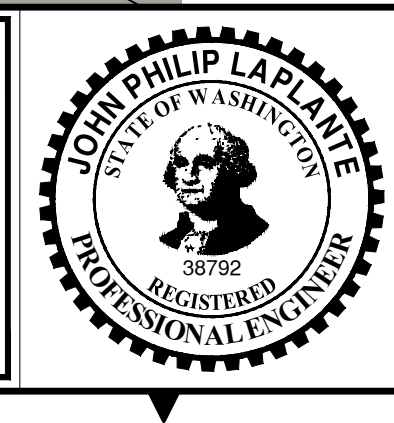
- NOTES:**
1. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83 (2011), U.S. SURVEY FEET
 2. VERTICAL DATUM: MLLW
 3. AERIAL SOURCE: KING COUNTY 2021
 4. CONTRACTOR SHALL REMOVE PILING AS SHOWN ON THE PLANS AND AS INDICATED IN THE PHOTOGRAPHS (32 PILING ESTIMATED FOR REMOVAL). IF ADDITIONAL PILING ARE ENCOUNTERED IN THE DREDGE PRISM, CONTRACTOR SHALL COORDINATE WITH THE PROJECT REPRESENTATIVE PRIOR TO REMOVAL. PHOTOGRAPH POINT LOCATIONS AND INDICATION OF DIRECTION ARE APPROXIMATE.

COLOR IMAGE
THIS DRAWING IS COMPOSED USING COLOR IMAGES OR PHOTOGRAPHS AND MUST BE PLOTTED, PRINTED, AND REPRODUCED IN COLOR TO BE VIEWED ACCURATELY.

NO	REVISION DESCRIPTION	BY	APVD	DATE

Lower Duwamish Waterway Group
Port of Seattle / City of Seattle / King County / The Boeing Company

PRE-FINAL ISSUE DRAWING
INFORMATION ONLY
90% DRAFT
JULY 2023



DESIGNED/DRAWN: J. COOPER	CHECKED: BIGSBY/GRIGA
PROJECT ENGINEER: J. LAPLANTE	SCALE: AS NOTED
DESIGN APPROVAL: T. WANG	PROJECT FILE NO: E00559E18
PROJECT ACCEPTANCE: PRJCT MNGR	CONTRACT NO: C0XXXXCXX

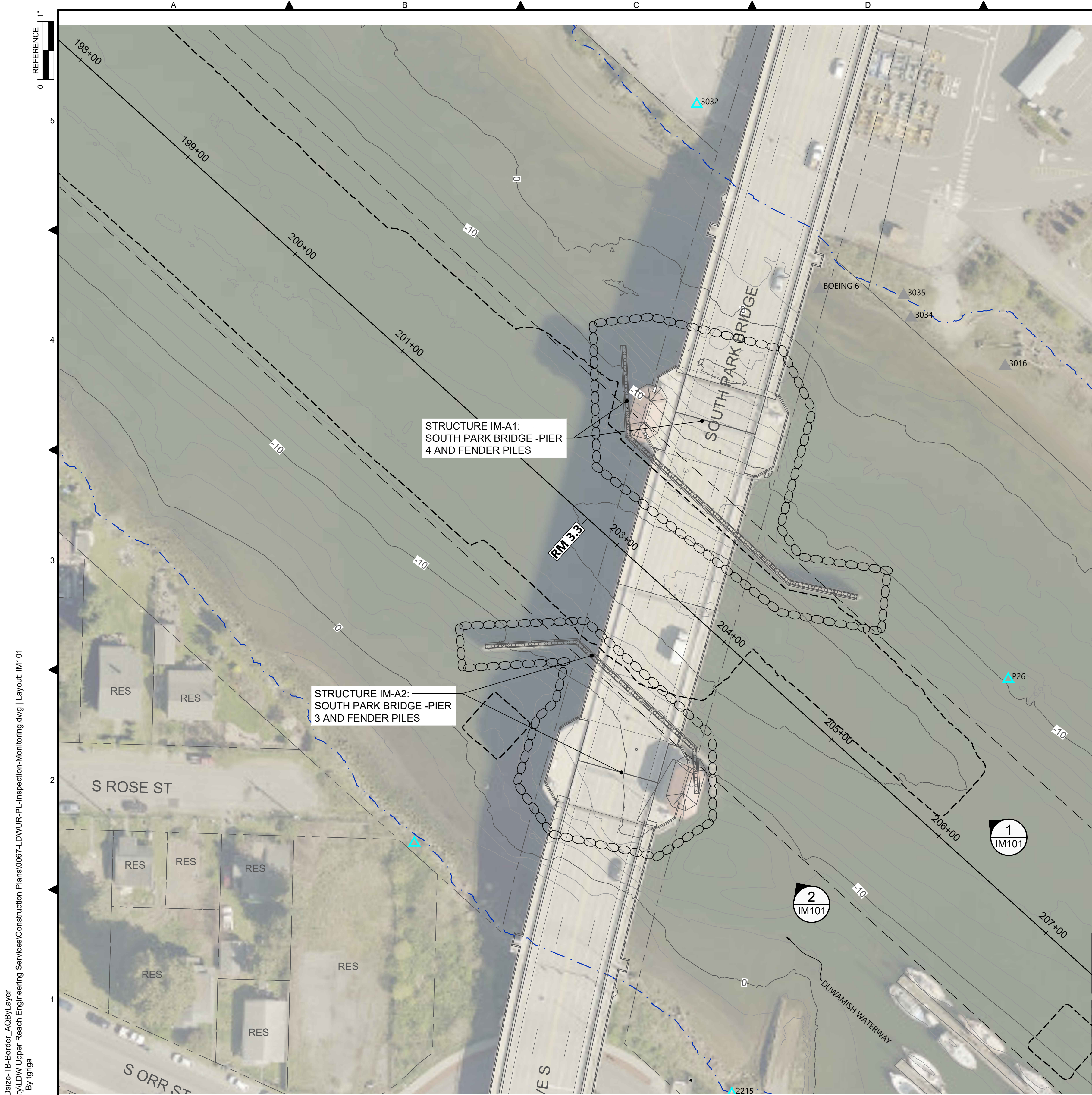


DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
LOWER DUWAMISH WATERWAY UPPER REACH
SEDIMENT CLEANUP
LOCATION OF IDENTIFIED DEBRIS AND PILING FOR REMOVAL (5 OF 5)

NOT FOR BIDDING

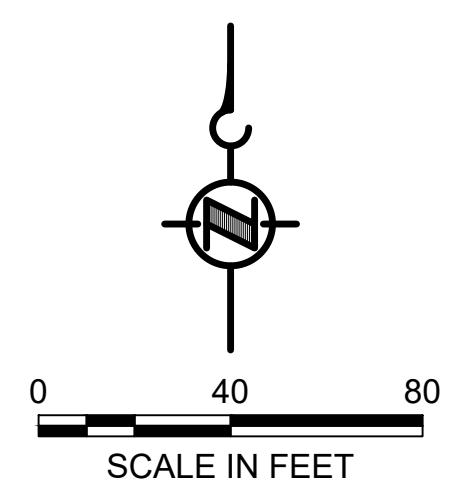
DATE:	JULY 2023
DRAWING NO:	V205
SHT NO / TOTAL	22 / 87
REV NO:	0

BORDER FILE EDITION: \\KOV\TD-Size-TB-Border_AQB\Layer_V205\CAD\Projects\0067-King County\LDW Upper Reach Engineering Services\Construction Plans\0067-LDWUR-PL_IndenifiedDebris.dwg | Layout: V205 PLOTTED: Jul 21, 2023 - 11:22:59pm By: tgriga



- LEGEND:**
- USACE CHANNEL CENTERLINE AND STATIONING
 - FEDERAL NAVIGATION CHANNEL
 - RM 3.0** RIVER MILE LABEL
 - KING COUNTY PARCEL (GIS)
 - LDW UPPER REACH APPROXIMATE BOUNDARY
 - EXISTING GRADE MERGED DATA SET CONTOURS (2' & 10' INTERVALS)
 - OUTFALL LOCATION (ACTIVE)
 - OUTFALL LOCATION (PRESUMED ABANDONED, INACTIVE, OR REMOVED)
 - STRUCTURE DESIGNATED FOR PRE-CONSTRUCTION AND POST-CONSTRUCTION STRUCTURAL CONDITION INSPECTIONS
 - MONITORING POINT (STRUCTURE)
 - DREDGE FOOTPRINT

- NOTES:**
1. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83 (2011), U.S. SURVEY FEET
 2. VERTICAL DATUM: MLLW
 3. AERIAL SOURCE: KING COUNTY 2021
 4. PERFORM PRE-CONSTRUCTION AND POST-CONSTRUCTION STRUCTURAL CONDITION INSPECTIONS OF IDENTIFIED STRUCTURES IM-A1 AND IM-A2 IN ACCORDANCE WITH THE SPECIFICATIONS.
 5. PROVIDE SINGULAR PRE-CONSTRUCTION AND POST-CONSTRUCTION REPORTS FOR THE IDENTIFIED BRIDGE PIERS AND FENDER PILES.



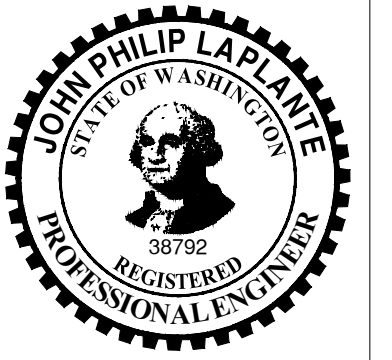
COLOR IMAGE
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BORDER FILE EDITION: x:\KOVTD\size-TB-Border_ACBY\layer\gial\CAD\Projects\0067-King County\LDW Upper Reach Engineering Services\Construction Plans\0067-LDWUR-PL-Inspection-Monitoring.dwg | Layout: IM101
 PLOTTED: Jul 21, 2023 - 11:24:59pm By: tgriga

NO	REVISION DESCRIPTION	BY	APVD	DATE

Lower Duwamish Waterway Group
 Port of Seattle / City of Seattle / King County / The Boeing Company

PRE-FINAL ISSUE DRAWING
 INFORMATION ONLY
90% DRAFT
 JULY 2023



DESIGNED/DRAWN: C. BALES	CHECKED: BIGSBY/GRIGA
PROJECT ENGINEER: J. LAPLANTE	SCALE: AS NOTED
DESIGN APPROVAL: T. WANG	PROJECT FILE NO: E00559E18
PROJECT ACCEPTANCE: PRJCT MNGR	CONTRACT NO: C0XXXXCXX



DEPARTMENT OF NATURAL RESOURCES & PARKS
 WASTEWATER TREATMENT DIVISION
 LOWER DUWAMISH WATERWAY UPPER REACH
 SEDIMENT CLEANUP

INSPECTION AND MONITORING
 (RM 3.23 TO 3.44)

NOT FOR BIDDING

DATE:	JULY 2023
DRAWING NO:	IM101
SHT NO / TOTAL	23 / 87
REV NO:	0

BORDER FILE EDITION: x:\KOV\TD\size-TB-Border_ACB\Layer
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 PLOTTED: Jul 21, 2023 - 11:25:46pm By: tgriga



SOUTH PARK MARINA

PHOTO
SCALE: NONE

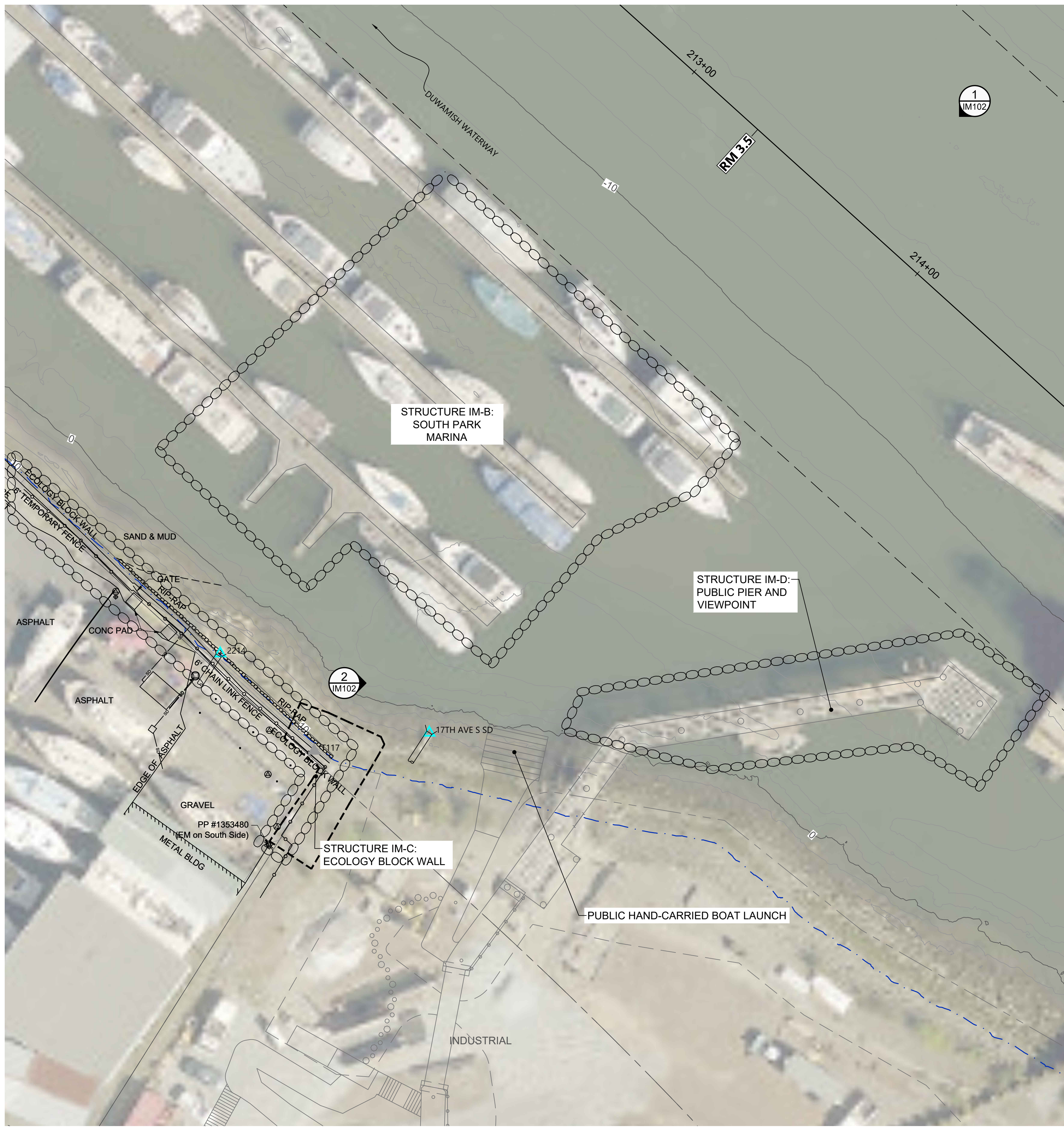
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IM102



PUBLIC PIER AND VIEWPOINT

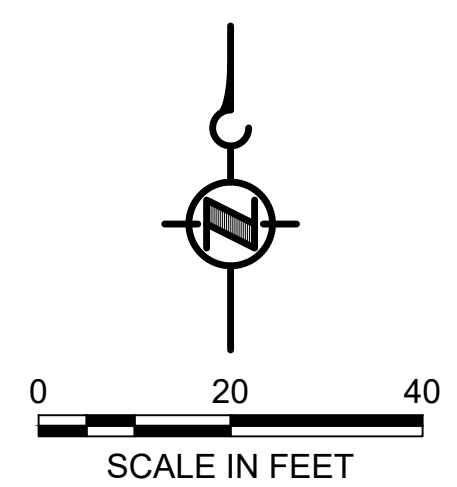
PHOTO
SCALE: NONE

2
IM102



- LEGEND:**
- USACE CHANNEL CENTERLINE AND STATIONING
 - FEDERAL NAVIGATION CHANNEL
 - RM 3.0** RIVER MILE LABEL
 - KING COUNTY PARCEL (GIS)
 - LDW UPPER REACH APPROXIMATE BOUNDARY
 - EXISTING GRADE MERGED DATA SET CONTOURS (2' & 10' INTERVALS)
 - OUTFALL LOCATION (ACTIVE)
 - OUTFALL LOCATION (PRESUMED ABANDONED, INACTIVE, OR REMOVED)
 - STRUCTURE DESIGNATED FOR PRE-CONSTRUCTION AND POST-CONSTRUCTION STRUCTURAL CONDITION INSPECTIONS
 - MONITORING POINT (STRUCTURE)
 - DREDGE FOOTPRINT
 - DOLPHINS
 - PILES

- NOTES:**
1. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83 (2011), U.S. SURVEY FEET
 2. VERTICAL DATUM: MLLW
 3. AERIAL SOURCE: KING COUNTY 2021
 4. PERFORM PRE-CONSTRUCTION AND POST-CONSTRUCTION STRUCTURAL CONDITION INSPECTIONS OF IDENTIFIED PORTION OF STRUCTURE IM-B AS WELL AS STRUCTURE IM-C IN ACCORDANCE WITH THE SPECIFICATIONS.
 5. PROVIDE SEPARATE PRE-CONSTRUCTION AND POST-CONSTRUCTION REPORTS FOR THE IDENTIFIED STRUCTURES.



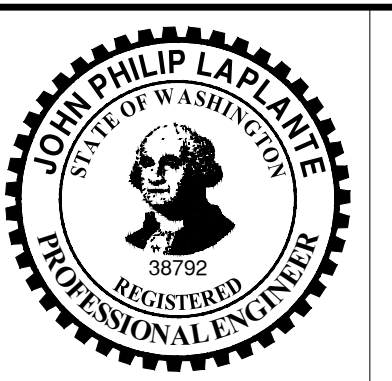
COLOR IMAGE
 THIS DRAWING IS COMPOSED USING COLOR IMAGES OR PHOTOGRAPHS AND MUST BE PLOTTED, PRINTED, AND REPRODUCED IN COLOR TO BE VIEWED ACCURATELY.

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NO	REVISION DESCRIPTION	BY	APVD	DATE

Lower Duwamish Waterway Group
 Port of Seattle / City of Seattle / King County / The Boeing Company

PRE-FINAL ISSUE DRAWING
INFORMATION ONLY
90% DRAFT
 JULY 2023



DESIGNED/DRAWN: C. BALES
 PROJECT ENGINEER: J. LAPLANTE
 DESIGN APPROVAL: T. WANG
 PROJECT ACCEPTANCE: PRJCT MNGR

CHECKED: BIGSBY/GRIGA
 SCALE: AS NOTED
 PROJECT FILE NO: E00559E18
 CONTRACT NO: C0XXXXCX



DEPARTMENT OF NATURAL RESOURCES & PARKS
 WASTEWATER TREATMENT DIVISION
 LOWER DUWAMISH WATERWAY UPPER REACH
 SEDIMENT CLEANUP

INSPECTION AND MONITORING
(RM 3.49 TO 3.56)

DATE: JULY 2023
 DRAWING NO: **IM102**
 SHEET NO / TOTAL: 24 / 87
 REV NO: **0**

0 1" REFERENCE

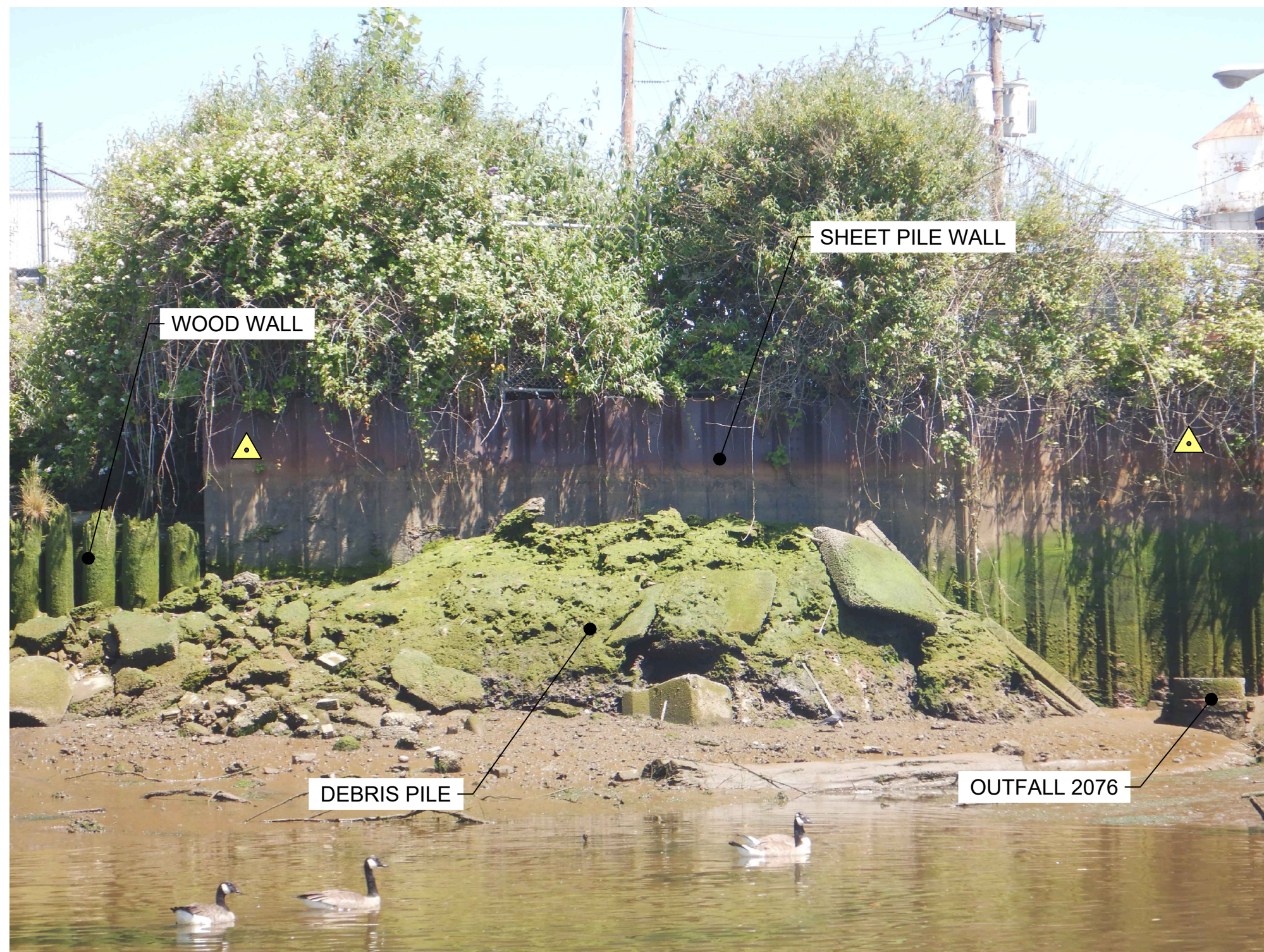
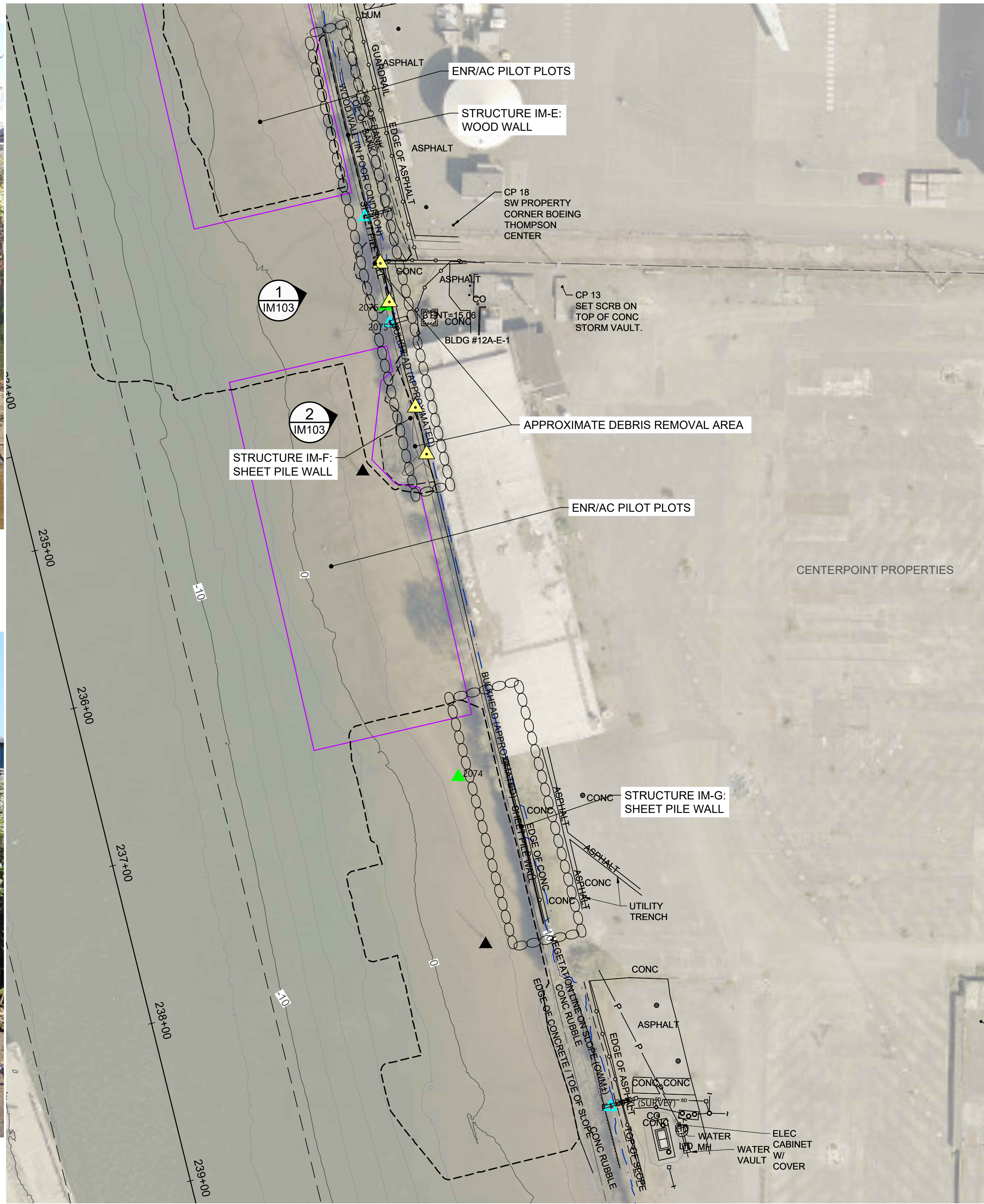


PHOTO 1 IM103 SCALE: NONE

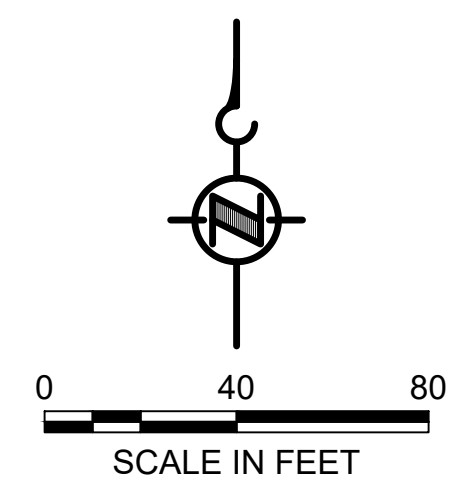


PHOTO 2 IM103 SCALE: NONE



- LEGEND:
- 250+00 USACE CHANNEL CENTERLINE AND STATIONING
 - FEDERAL NAVIGATION CHANNEL
 - RM 3.0 RIVER MILE LABEL
 - KING COUNTY PARCEL (GIS)
 - LDW UPPER REACH APPROXIMATE BOUNDARY
 - EXISTING GRADE MERGED DATA SET CONTOURS (2' & 10' INTERVALS)
 - OUTFALL LOCATION (ACTIVE)
 - OUTFALL LOCATION (PRESUMED ABANDONED, INACTIVE, OR REMOVED)
 - STRUCTURE DESIGNATED FOR PRE-CONSTRUCTION AND POST-CONSTRUCTION STRUCTURAL CONDITION INSPECTIONS
 - MONITORING POINT (STRUCTURE)
 - DREDGE FOOTPRINT
 - DOLPHINS
 - ENR/AC PILOT PLOT
 - PILES

- NOTES:
- HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83 (2011), U.S. SURVEY FEET
 - VERTICAL DATUM: MLLW
 - AERIAL SOURCE: KING COUNTY 2021
 - MONITORING POINT LAYOUT DEPICTED REPRESENTS THE MINIMUM REQUIRED. INSTALL AND SURVEY IN ACCORDANCE WITH THE SPECIFICATIONS.
 - PERFORM PRE-CONSTRUCTION AND POST-CONSTRUCTION STRUCTURAL CONDITION INSPECTIONS OF IDENTIFIED STRUCTURES IM-F, IM-G, AND IM-H, AS WELL AS OUTFALLS 2075 AND 2077, IN ACCORDANCE WITH THE SPECIFICATIONS.
 - PROVIDE SEPARATE PRE-CONSTRUCTION AND POST-CONSTRUCTION REPORTS FOR THE IDENTIFIED STRUCTURES AND OUTFALLS.



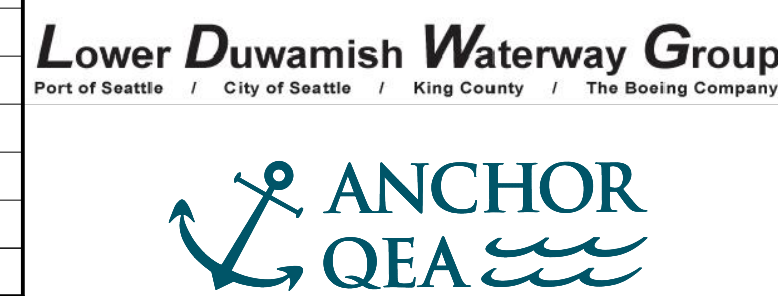
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THIS DRAWING IS COMPOSED USING COLOR IMAGES OR PHOTOGRAPHS AND MUST BE PLOTTED, PRINTED, AND REPRODUCED IN COLOR TO BE VIEWED ACCURATELY.

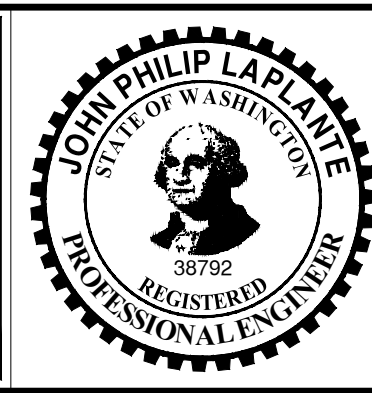
NOT FOR BIDDING

BORDER FILE EDITION: x:\KOVTD\size-TB-Border_ACBM_Layer_Vgial\CAD\Projects\0067-King County\LDW Upper Reach Engineering Services\Construction Plans\0067-LDWUR-PL-Inspection-Monitoring.dwg | Layout: IM103 PLOTTED: Jul 21, 2023 - 11:26:34pm By: triga

NO	REVISION DESCRIPTION	BY	APVD	DATE



PRE-FINAL ISSUE DRAWING INFORMATION ONLY 90% DRAFT JULY 2023



DESIGNED/DRAWN: C. BALES
 PROJECT ENGINEER: J. LAPLANTE
 DESIGN APPROVAL: T. WANG
 PROJECT ACCEPTANCE: PRJCT MNGR

CHECKED: BIGSBY/GRIGA
 SCALE: AS NOTED
 PROJECT FILE NO: E00559E18
 CONTRACT NO: C0XXXXCXX



DEPARTMENT OF NATURAL RESOURCES & PARKS
 WASTEWATER TREATMENT DIVISION
 LOWER DUWAMISH WATERWAY UPPER REACH
 SEDIMENT CLEANUP

INSPECTION AND MONITORING (RM 3.85 TO 3.99)

DATE: JULY 2023
 DRAWING NO: IM103
 SHT NO / TOTAL: 25 / 87
 REV NO: 0

0 1" REFERENCE



PHOTO SCALE: NONE 1 IM104

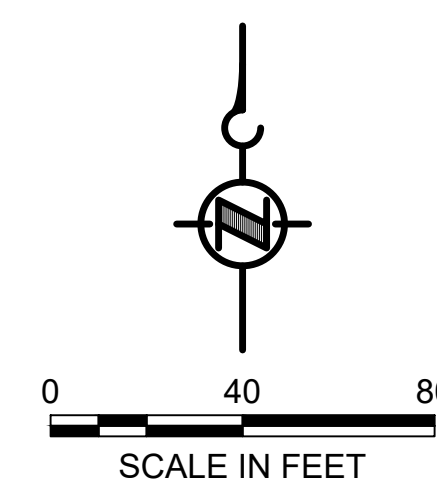


PHOTO SCALE: NONE 2 IM104



- LEGEND:
- USACE CHANNEL CENTERLINE AND STATIONING
 - FEDERAL NAVIGATION CHANNEL
 - RM 3.0** RIVER MILE LABEL
 - KING COUNTY PARCEL (GIS)
 - LDW UPPER REACH APPROXIMATE BOUNDARY
 - EXISTING GRADE MERGED DATA SET CONTOURS (2' & 10' INTERVALS)
 - OUTFALL LOCATION (ACTIVE)
 - OUTFALL LOCATION (PRESUMED ABANDONED, INACTIVE, OR REMOVED)
 - STRUCTURE DESIGNATED FOR PRE-CONSTRUCTION AND POST-CONSTRUCTION STRUCTURAL CONDITION INSPECTIONS
 - MONITORING POINT (STRUCTURE)
 - DREDGE FOOTPRINT
 - DOLPHINS
 - PILES

- NOTES:
1. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83 (2011), U.S. SURVEY FEET
 2. VERTICAL DATUM: MLLW
 3. AERIAL SOURCE: KING COUNTY 2021
 4. PERFORM PRE-CONSTRUCTION AND POST-CONSTRUCTION STRUCTURAL CONDITION INSPECTIONS OF IDENTIFIED STRUCTURE IM-I IN ACCORDANCE WITH THE SPECIFICATIONS.
 5. PROVIDE SINGULAR PRE-CONSTRUCTION AND POST-CONSTRUCTION REPORTS FOR THE TIMBER AND DOLPHIN PILES IDENTIFIED AS STRUCTURE IM-I.



COLOR IMAGE
 THIS DRAWING IS COMPOSED USING COLOR IMAGES OR PHOTOGRAPHS AND MUST BE PLOTTED, PRINTED, AND REPRODUCED IN COLOR TO BE VIEWED ACCURATELY.

NOT FOR BIDDING

BORDER FILE EDITION: xKOVTD-size-TB-Border_ACBM_Layer
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PLOTTED: Jul 21, 2023 - 11:27:18pm By: tgriga

NO	REVISION DESCRIPTION	BY	APVD	DATE



PRE-FINAL ISSUE DRAWING
 INFORMATION ONLY
90% DRAFT
 JULY 2023



DESIGNED/DRAWN: C. BALES
 PROJECT ENGINEER: J. LAPLANTE
 DESIGN APPROVAL: T. WANG
 PROJECT ACCEPTANCE: PRJCT MNGR

CHECKED: BIGSBY/GRIGA
 SCALE: AS NOTED
 PROJECT FILE NO: E00559E18
 CONTRACT NO: C0XXXXCX



DEPARTMENT OF NATURAL RESOURCES & PARKS
 WASTEWATER TREATMENT DIVISION
 LOWER DUWAMISH WATERWAY UPPER REACH
 SEDIMENT CLEANUP

INSPECTION AND MONITORING
 (RM 3.98 TO 4.13)

DATE: JULY 2023
 DRAWING NO: **IM104**
 SHT NO / TOTAL: 26 / 87
 REV NO: **0**

0 1" REFERENCE



PHOTO 1 IM105 SCALE: NONE

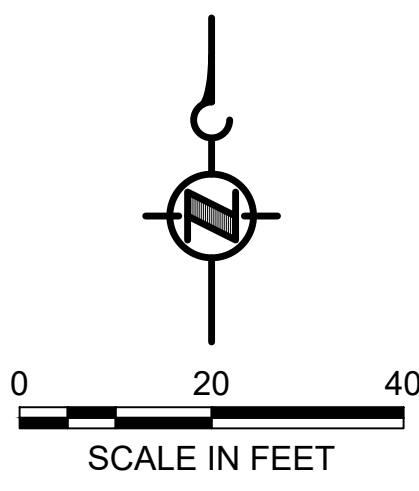


PHOTO 2 IM105 SCALE: NONE



- LEGEND:**
- 250+00 USACE CHANNEL CENTERLINE AND STATIONING
 - FEDERAL NAVIGATION CHANNEL
 - RM 3.0** RIVER MILE LABEL
 - KING COUNTY PARCEL (GIS)
 - LDW UPPER REACH APPROXIMATE BOUNDARY
 - EXISTING GRADE MERGED DATA SET CONTOURS (2' & 10' INTERVALS)
 - OUTFALL LOCATION (ACTIVE)
 - OUTFALL LOCATION (PRESUMED ABANDONED, INACTIVE, OR REMOVED)
 - STRUCTURE DESIGNATED FOR PRE-CONSTRUCTION AND POST-CONSTRUCTION STRUCTURAL CONDITION INSPECTIONS
 - MONITORING POINT (STRUCTURE)
 - DREDGE FOOTPRINT

- NOTES:**
- HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83 (2011), U.S. SURVEY FEET
 - VERTICAL DATUM: MLLW
 - AERIAL SOURCE: KING COUNTY 2021
 - MONITORING POINT LAYOUT DEPICTED REPRESENTS THE MINIMUM REQUIRED. INSTALL AND SURVEY IN ACCORDANCE WITH THE SPECIFICATIONS.
 - PERFORM PRE-CONSTRUCTION AND POST-CONSTRUCTION STRUCTURAL INSPECTIONS OF IDENTIFIED STRUCTURE IM-J IN ACCORDANCE WITH THE SPECIFICATIONS.

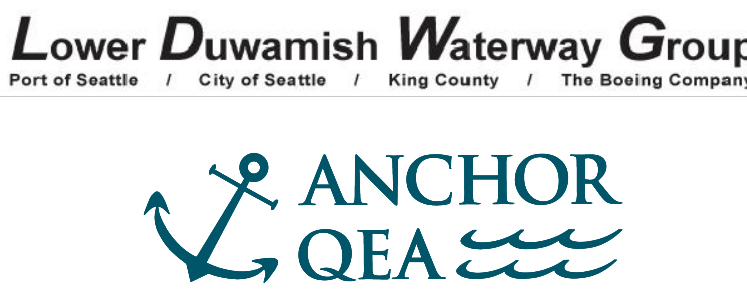


COLOR IMAGE
THIS DRAWING IS COMPOSED USING COLOR IMAGES OR PHOTOGRAPHS AND MUST BE PLOTTED, PRINTED, AND REPRODUCED IN COLOR TO BE VIEWED ACCURATELY.

NOT FOR BIDDING

BORDER FILE EDITION: x:\KOVTD\size-TB-Border_ACBM_Layer_Vgial\CAD\Projects\0067-King County\LDW Upper Reach Engineering Services\Construction Plans\0067-LDWUR-PL-Inspection-Monitoring.dwg | Layout: IM105 PLOTTED: Jul 21, 2023 - 11:28:03pm By: tgriga

NO	REVISION DESCRIPTION	BY	APVD	DATE



PRE-FINAL ISSUE DRAWING
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JULY 2023



DESIGNED/DRAWN: C. BALES	CHECKED: BIGSBY/GRIGA
PROJECT ENGINEER: J. LAPLANTE	SCALE: AS NOTED
DESIGN APPROVAL: T. WANG	PROJECT FILE NO: E00559E18
PROJECT ACCEPTANCE: PRJCT MNGR	CONTRACT NO: C0XXXXCXX



DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
LOWER DUWAMISH WATERWAY UPPER REACH
SEDIMENT CLEANUP

INSPECTION AND MONITORING
(RM 4.14 TO 4.23)

DATE: JULY 2023
DRAWING NO: **IM105**
SHT NO / TOTAL: 27 / 87
REV NO: **0**

1" REFERENCE



PHOTO 1 IM106 SCALE: NONE

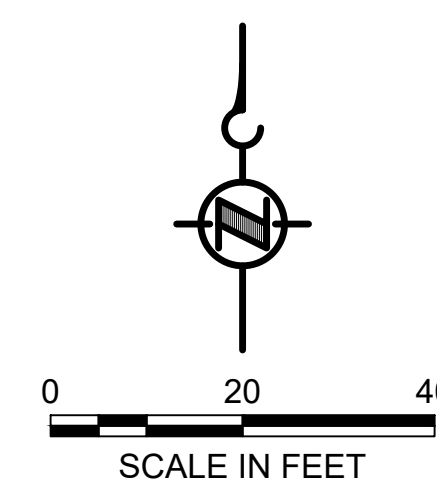


PHOTO 2 IM106 SCALE: NONE



- LEGEND:**
- USACE CHANNEL CENTERLINE AND STATIONING
 - FEDERAL NAVIGATION CHANNEL
 - RM 3.0** RIVER MILE LABEL
 - KING COUNTY PARCEL (GIS)
 - LDW UPPER REACH APPROXIMATE BOUNDARY
 - EXISTING GRADE MERGED DATA SET CONTOURS (2' & 10' INTERVALS)
 - OUTFALL LOCATION (ACTIVE)
 - OUTFALL LOCATION (PRESUMED ABANDONED, INACTIVE, OR REMOVED)
 - STRUCTURE DESIGNATED FOR PRE-CONSTRUCTION AND POST-CONSTRUCTION STRUCTURAL CONDITION INSPECTIONS
 - MONITORING POINT (STRUCTURE)
 - DREDGE FOOTPRINT
 - PILES

- NOTES:**
1. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83 (2011), U.S. SURVEY FEET
 2. VERTICAL DATUM: MLLW
 3. AERIAL SOURCE: KING COUNTY 2021
 4. PERFORM PRE-CONSTRUCTION AND POST-CONSTRUCTION STRUCTURAL INSPECTIONS OF IDENTIFIED STRUCTURE IM-K IN ACCORDANCE WITH THE SPECIFICATIONS.

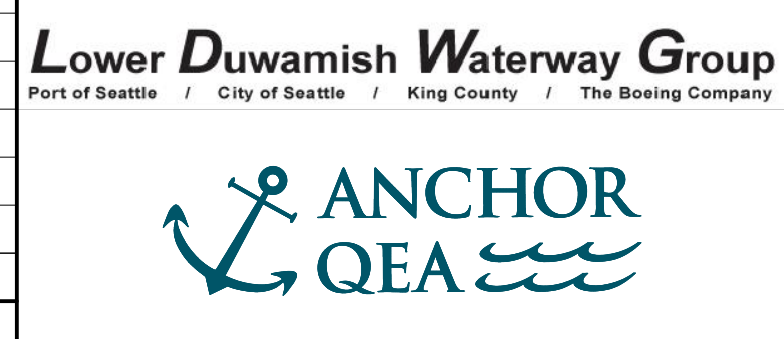


COLOR IMAGE
THIS DRAWING IS COMPOSED USING COLOR IMAGES OR PHOTOGRAPHS AND MUST BE PLOTTED, PRINTED, AND REPRODUCED IN COLOR TO BE VIEWED ACCURATELY.

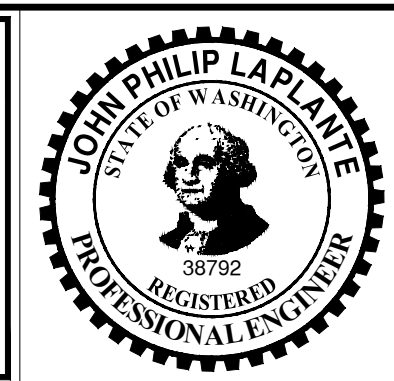
NOT FOR BIDDING

BORDER FILE EDITION: x:\KOVTD\size-TB-Border_ACBM\layer \gala\CAD\Projects\0067-King County\LDW Upper Reach Engineering Services\Construction Plans\0067-LDWUR-PL-Inspection-Monitoring.dwg | Layout: IM106 PLOTTED: Jul 21, 2023 - 11:28:47pm By: tgriga

NO	REVISION DESCRIPTION	BY	APVD	DATE



PRE-FINAL ISSUE DRAWING
INFORMATION ONLY
90% DRAFT
JULY 2023



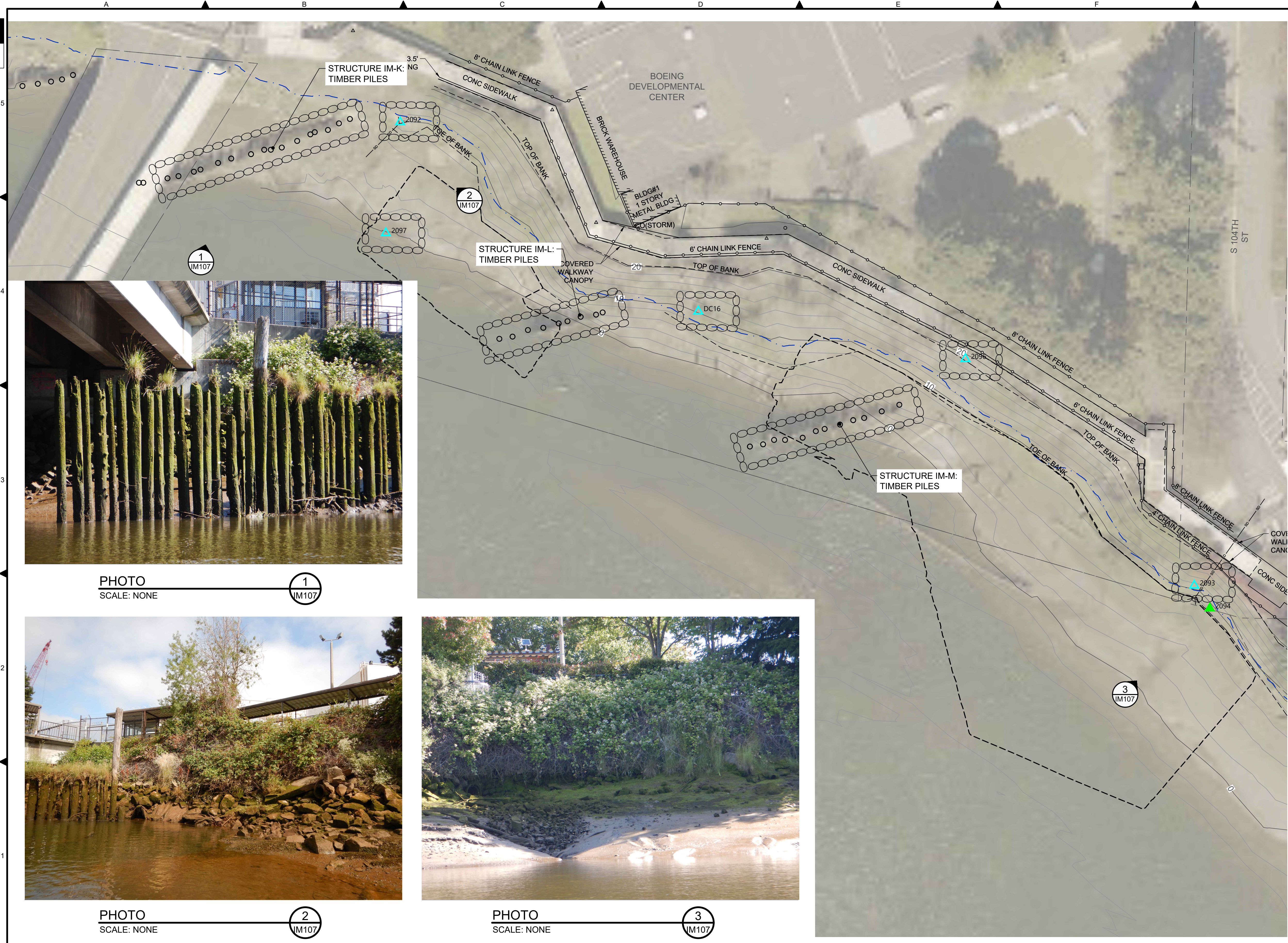
DESIGNED/DRAWN: C. BALES	CHECKED: BIGSBY/GRIGA
PROJECT ENGINEER: J. LAPLANTE	SCALE: AS NOTED
DESIGN APPROVAL: T. WANG	PROJECT FILE NO: E00559E18
PROJECT ACCEPTANCE: PRJCT MNGR	CONTRACT NO: C0XXXXCXX



DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
LOWER DUWAMISH WATERWAY UPPER REACH
SEDIMENT CLEANUP
INSPECTION AND MONITORING
(RM 4.57 TO 4.66)

DATE: JULY 2023
DRAWING NO: IM106
SHT NO / TOTAL 28 / 87
REV NO: 0

BORDER FILE EDITION: x:\KOVTD\size-TB-Border_AQB\Layer
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 PLOTTED: Jul 21, 2023 - 11:29:34pm By: tgriga



- LEGEND:**
- USACE CHANNEL CENTERLINE AND STATIONING
 - FEDERAL NAVIGATION CHANNEL
 - RM 3.0** RIVER MILE LABEL
 - KING COUNTY PARCEL (GIS)
 - LDW UPPER REACH APPROXIMATE BOUNDARY
 - EXISTING GRADE MERGED DATA SET CONTOURS (2' & 10' INTERVALS)
 - OUTFALL LOCATION (ACTIVE)
 - OUTFALL LOCATION (PRESUMED ABANDONED, INACTIVE, OR REMOVED)
 - STRUCTURE DESIGNATED FOR PRE-CONSTRUCTION AND POST-CONSTRUCTION STRUCTURAL CONDITION INSPECTIONS
 - MONITORING POINT (STRUCTURE)
 - DREDGE FOOTPRINT
 - PILES

- NOTES:**
1. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83 (2011), U.S. SURVEY FEET
 2. VERTICAL DATUM: MLLW
 3. AERIAL SOURCE: KING COUNTY 2021
 4. PERFORM PRE-CONSTRUCTION AND POST-CONSTRUCTION STRUCTURAL CONDITION INSPECTIONS OF IDENTIFIED STRUCTURES IM-L, IM-M AND IM-N, AS WELL AS OUTFALLS 2092, 2093 2096 AND 2097, IN ACCORDANCE WITH THE SPECIFICATIONS.
 5. PROVIDE SEPARATE PRE-CONSTRUCTION AND POST-CONSTRUCTION REPORTS FOR THE IDENTIFIED STRUCTURES AND OUTFALLS.



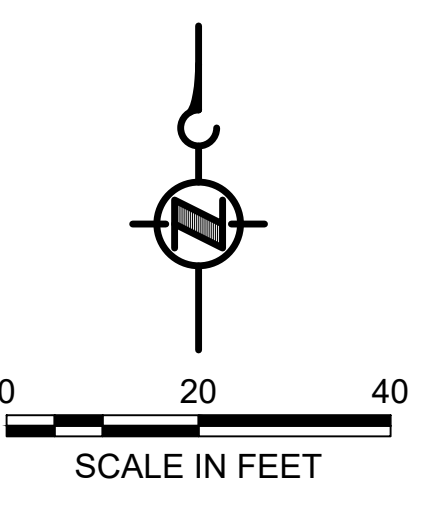
PHOTO
SCALE: NONE



PHOTO
SCALE: NONE



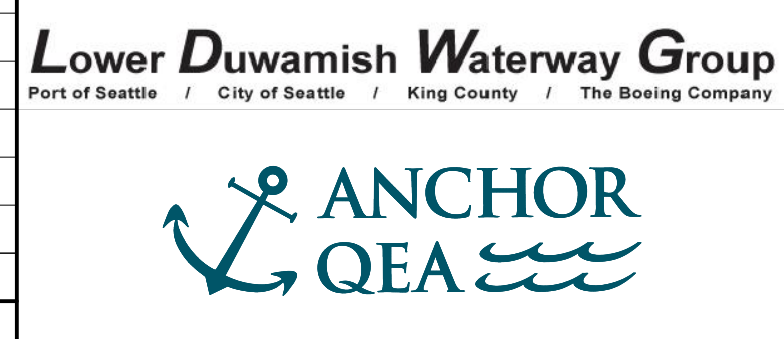
PHOTO
SCALE: NONE



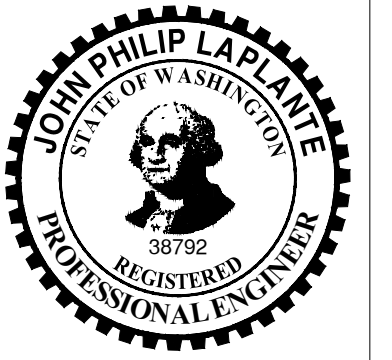
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NO	REVISION DESCRIPTION	BY	APVD	DATE



PRE-FINAL ISSUE DRAWING
INFORMATION ONLY
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 JULY 2023



DESIGNED/DRAWN: C. BALES
 PROJECT ENGINEER: J. LAPLANTE
 DESIGN APPROVAL: T. WANG
 PROJECT ACCEPTANCE: PRJCT MNGR

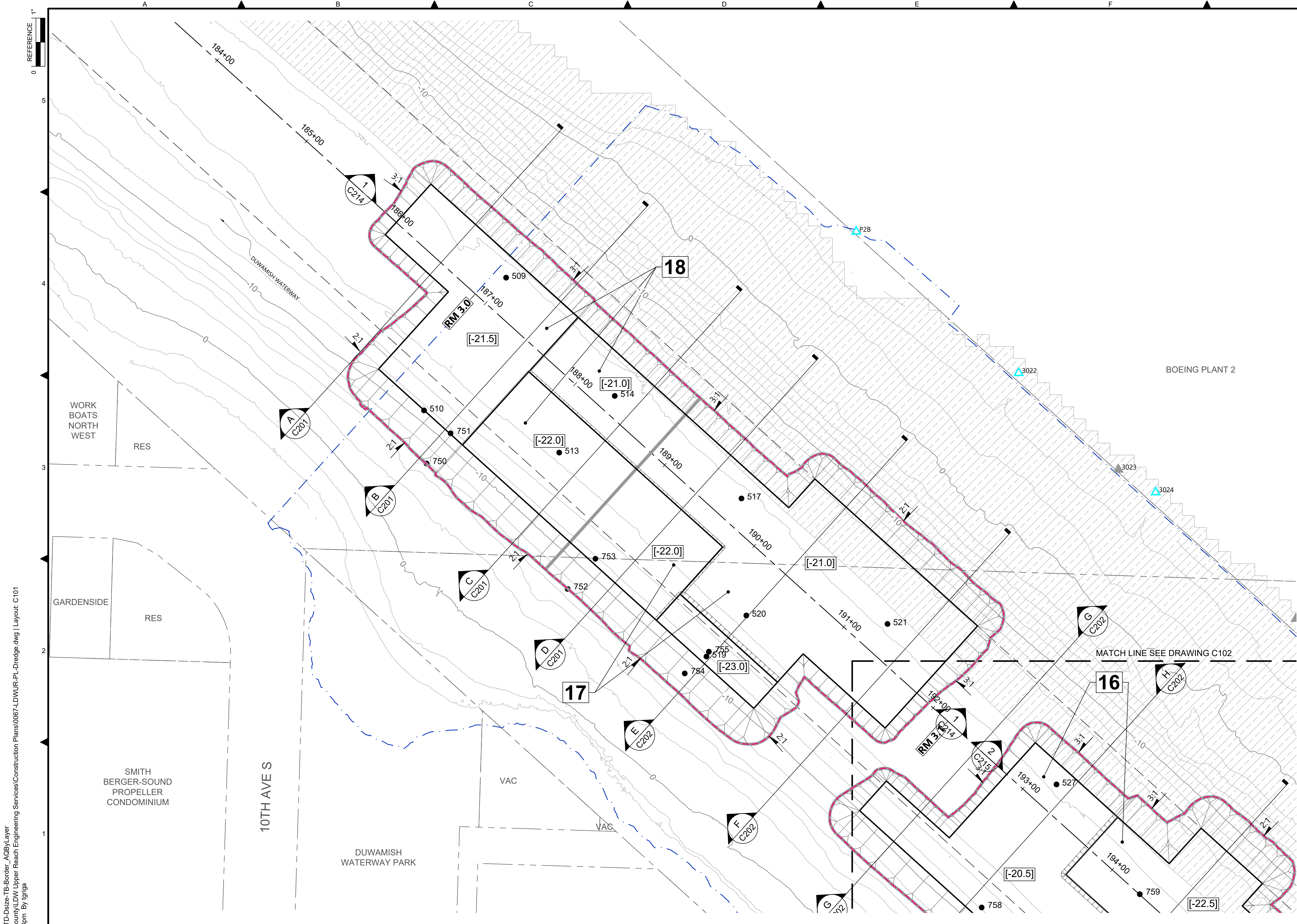
CHECKED: BIGSBY/GRIGA
 SCALE: AS NOTED
 PROJECT FILE NO: E00559E18
 CONTRACT NO: C0XXXXCX



DEPARTMENT OF NATURAL RESOURCES & PARKS
 WASTEWATER TREATMENT DIVISION
 LOWER DUWAMISH WATERWAY UPPER REACH
 SEDIMENT CLEANUP

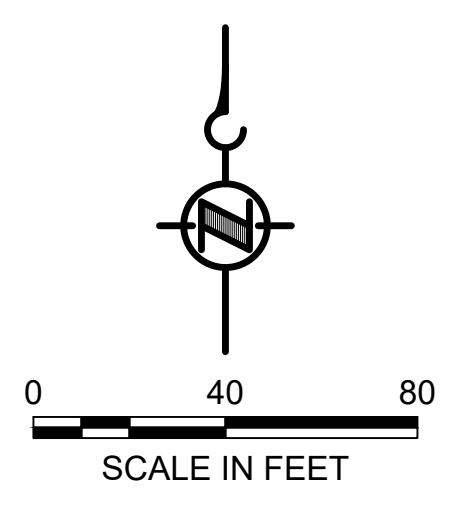
INSPECTION AND MONITORING
(RM 4.84 TO 4.95)

DATE: JULY 2023
 DRAWING NO: **IM107**
 SHT NO / TOTAL: 29 / 87
 REV NO: **0**



- LEGEND:**
- USACE CHANNEL CENTERLINE AND STATIONING
 - FEDERAL NAVIGATION CHANNEL
 - RM 3.0** RIVER MILE LABEL
 - EARLY ACTION AREA
 - LDW UPPER REACH APPROXIMATE BOUNDARY
 - EXISTING GRADE MERGED DATA SET CONTOURS (2' & 10' INTERVALS)
 - OUTFALL LOCATION (ACTIVE)
 - OUTFALL LOCATION (ASSUMED ABANDONED, INACTIVE, OR REMOVED)
 - EXISTING DOLPHIN
 - VERTICAL DELINEATION CORE LOCATION
 - DREDGE PRISM FOOTPRINT BOUNDARY (TOE OF CUT)
 - ESTIMATED DREDGE PRISM DAYLIGHT BOUNDARY
 - DREDGE SLOPE SYMBOL
 - [-22.0]** REQUIRED DREDGE ELEVATION IN FEET MLLW
 - <2.0>** REQUIRED DREDGE THICKNESS IN FEET
 - SEDIMENT MANAGEMENT AREA BOUNDARY
 - 14** SEDIMENT MANAGEMENT AREA NUMBER

- NOTES:**
1. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83 (2011), U.S. SURVEY FEET
 2. VERTICAL DATUM: MLLW
 3. DREDGE PRISM CORNER POINTS WILL BE EXPORTED AND PROVIDED TO THE CONTRACTOR UPON REQUEST.



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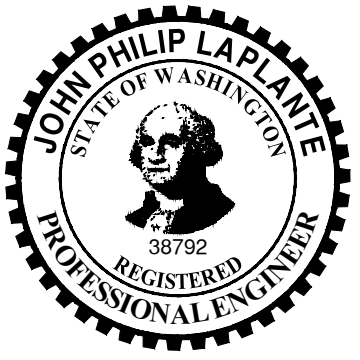
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 PLOTTED: Jul 21, 2023 - 11:31:43pm By: tgriga

NO	REVISION DESCRIPTION	BY	APVD	DATE

Lower Duwamish Waterway Group
 Port of Seattle / City of Seattle / King County / The Boeing Company

PRE-FINAL ISSUE DRAWING
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 JULY 2023



DESIGNED/DRAWN: K. GROSS
 PROJECT ENGINEER: J. LAPLANTE
 DESIGN APPROVAL: T. WANG
 PROJECT ACCEPTANCE: PRJCT MNGR

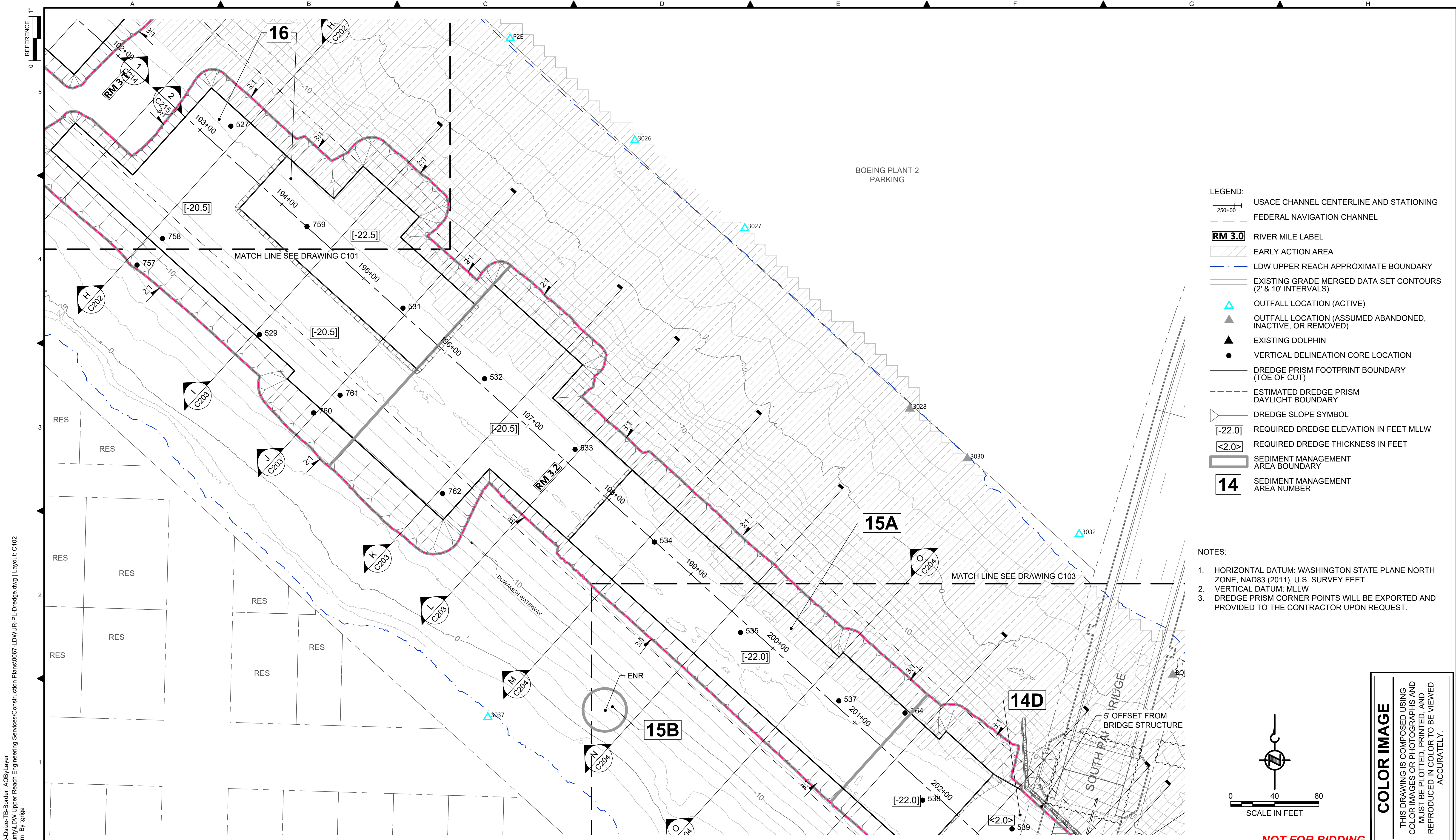
CHECKED: BIGSBY/GRIGA
 SCALE: AS NOTED
 PROJECT FILE NO: E00559E18
 CONTRACT NO: C0XXXXCX



DEPARTMENT OF NATURAL RESOURCES & PARKS
 WASTEWATER TREATMENT DIVISION
 LOWER DUWAMISH WATERWAY UPPER REACH
 SEDIMENT CLEANUP

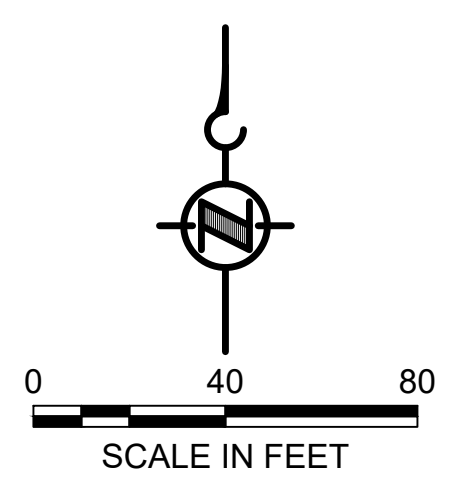
DREDGE PLAN (RM 2.93 TO 3.15)

DATE: JULY 2023
 DRAWING NO: **C101**
 SHT NO / TOTAL: 30 / 87
 REV NO: **0**



- LEGEND:**
- USACE CHANNEL CENTERLINE AND STATIONING
 - FEDERAL NAVIGATION CHANNEL
 - RM 3.0** RIVER MILE LABEL
 - EARLY ACTION AREA
 - LDW UPPER REACH APPROXIMATE BOUNDARY
 - EXISTING GRADE MERGED DATA SET CONTOURS (2' & 10' INTERVALS)
 - OUTFALL LOCATION (ACTIVE)
 - OUTFALL LOCATION (ASSUMED ABANDONED, INACTIVE, OR REMOVED)
 - EXISTING DOLPHIN
 - VERTICAL DELINEATION CORE LOCATION
 - DREDGE PRISM FOOTPRINT BOUNDARY (TOE OF CUT)
 - ESTIMATED DREDGE PRISM DAYLIGHT BOUNDARY
 - DREDGE SLOPE SYMBOL
 - [-22.0]** REQUIRED DREDGE ELEVATION IN FEET MLLW
 - <2.0>** REQUIRED DREDGE THICKNESS IN FEET
 - SEDIMENT MANAGEMENT AREA BOUNDARY
 - 14** SEDIMENT MANAGEMENT AREA NUMBER

- NOTES:**
1. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83 (2011), U.S. SURVEY FEET
 2. VERTICAL DATUM: MLLW
 3. DREDGE PRISM CORNER POINTS WILL BE EXPORTED AND PROVIDED TO THE CONTRACTOR UPON REQUEST.



COLOR IMAGE
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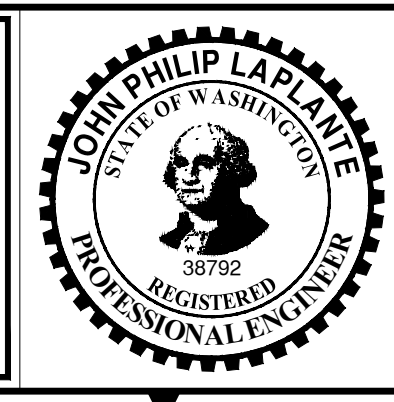
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 PLOTTED: Jul 21, 2023 - 11:32:28pm By: tgriga

NO	REVISION DESCRIPTION	BY	APVD	DATE

Lower Duwamish Waterway Group
 Port of Seattle / City of Seattle / King County / The Boeing Company

PRE-FINAL ISSUE DRAWING
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 JULY 2023



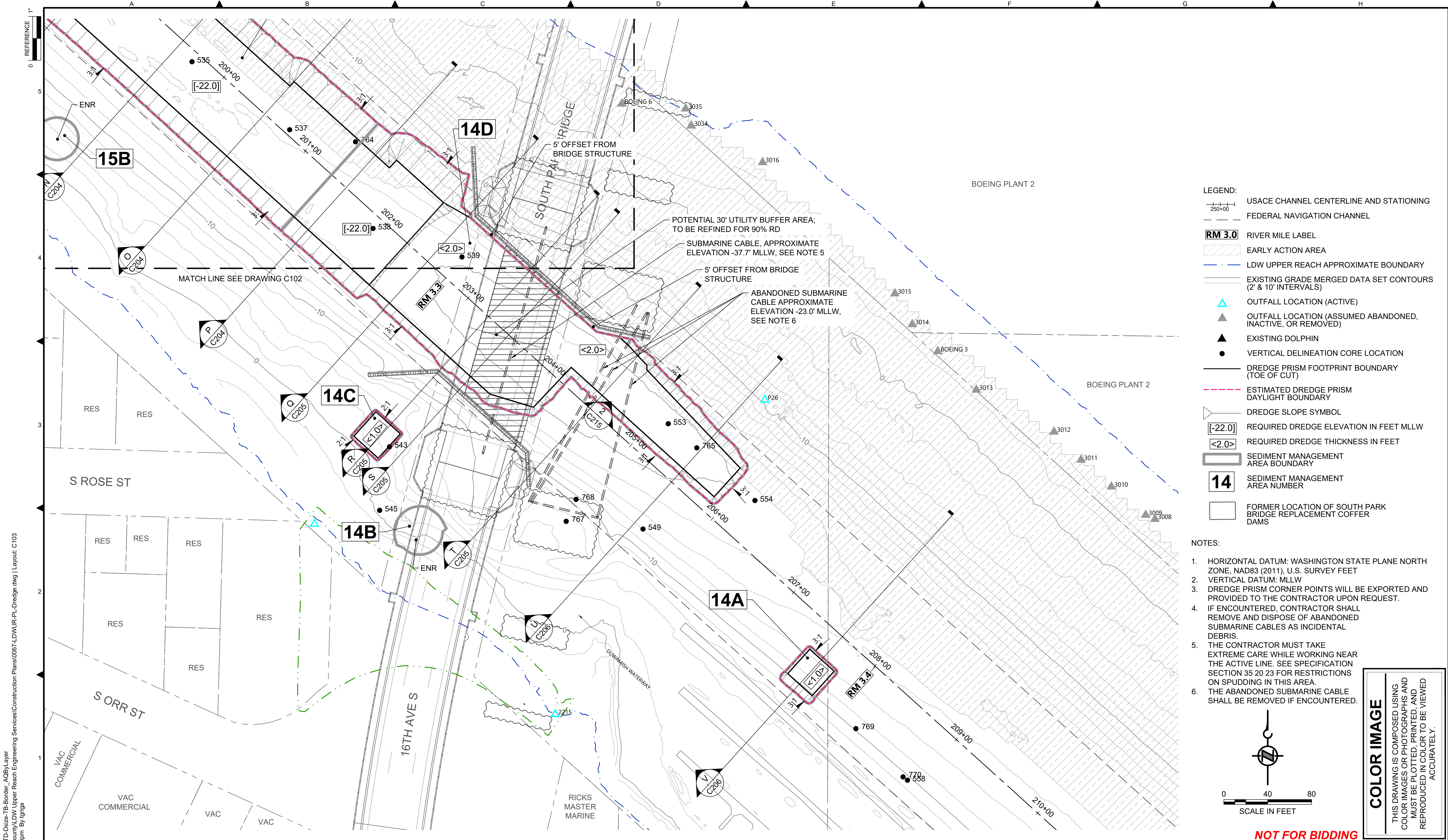
DESIGNED/DRAWN: K. GROSS	CHECKED: BIGSBY/GRIGA
PROJECT ENGINEER: J. LAPLANTE	SCALE: AS NOTED
DESIGN APPROVAL: T. WANG	PROJECT FILE NO: E00559E18
PROJECT ACCEPTANCE: PRJCT MNGR	CONTRACT NO: C0XXXXCX



DEPARTMENT OF NATURAL RESOURCES & PARKS
 WASTEWATER TREATMENT DIVISION
 LOWER DUWAMISH WATERWAY UPPER REACH
 SEDIMENT CLEANUP

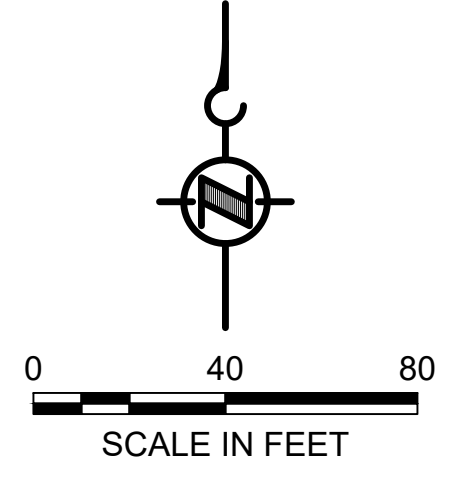
DREDGE PLAN (RM 3.09 TO 3.29)

DATE: JULY 2023
DRAWING NO: C102
SHT NO / TOTAL 31 / 87
REV NO: 0



- LEGEND:**
- USACE CHANNEL CENTERLINE AND STATIONING
 - FEDERAL NAVIGATION CHANNEL
 - RM 3.0** RIVER MILE LABEL
 - EARLY ACTION AREA
 - LDW UPPER REACH APPROXIMATE BOUNDARY
 - EXISTING GRADE MERGED DATA SET CONTOURS (2' & 10' INTERVALS)
 - OUTFALL LOCATION (ACTIVE)
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 - VERTICAL DELINEATION CORE LOCATION
 - DREDGE PRISM FOOTPRINT BOUNDARY (TOE OF CUT)
 - ESTIMATED DREDGE PRISM DAYLIGHT BOUNDARY
 - DREDGE SLOPE SYMBOL
 - REQUIRED DREDGE ELEVATION IN FEET MLLW
 - REQUIRED DREDGE THICKNESS IN FEET
 - SEDIMENT MANAGEMENT AREA BOUNDARY
 - 14** SEDIMENT MANAGEMENT AREA NUMBER
 - FORMER LOCATION OF SOUTH PARK BRIDGE REPLACEMENT COFFER DAMS

- NOTES:**
1. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83 (2011), U.S. SURVEY FEET
 2. VERTICAL DATUM: MLLW
 3. DREDGE PRISM CORNER POINTS WILL BE EXPORTED AND PROVIDED TO THE CONTRACTOR UPON REQUEST.
 4. IF ENCOUNTERED, CONTRACTOR SHALL REMOVE AND DISPOSE OF ABANDONED SUBMARINE CABLES AS INCIDENTAL DEBRIS.
 5. THE CONTRACTOR MUST TAKE EXTREME CARE WHILE WORKING NEAR THE ACTIVE LINE. SEE SPECIFICATION SECTION 35 20 23 FOR RESTRICTIONS ON SPUDDING IN THIS AREA.
 6. THE ABANDONED SUBMARINE CABLE SHALL BE REMOVED IF ENCOUNTERED.

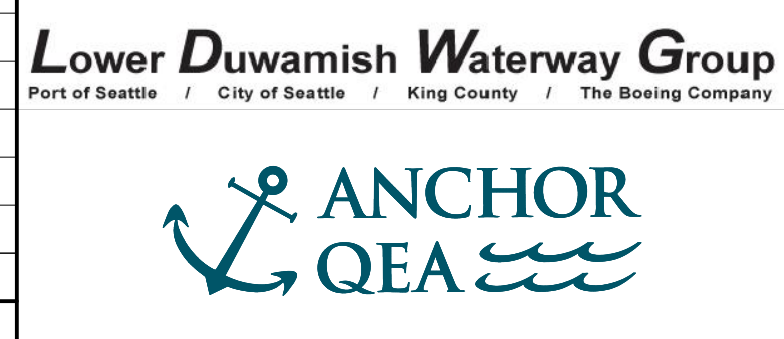


COLOR IMAGE
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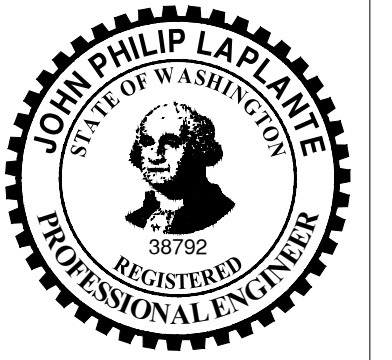
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BORDER FILE EDITION: x:\KOV\TD\size-TB-Border_ACB\Layer_Vgial\CAD\Projects\0067-King County\LDW Upper Reach Engineering Services\Construction Plans\0067-LDWUR-PL-Dredge.dwg | Layout: C103
 PLOTTED: Jul 21, 2023 - 11:33:13pm By: tgriga

NO	REVISION DESCRIPTION	BY	APVD	DATE



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 JULY 2023



DESIGNED/DRAWN: K. GROSS
 PROJECT ENGINEER: J. LAPLANTE
 DESIGN APPROVAL: T. WANG
 PROJECT ACCEPTANCE: PRJCT MNGR

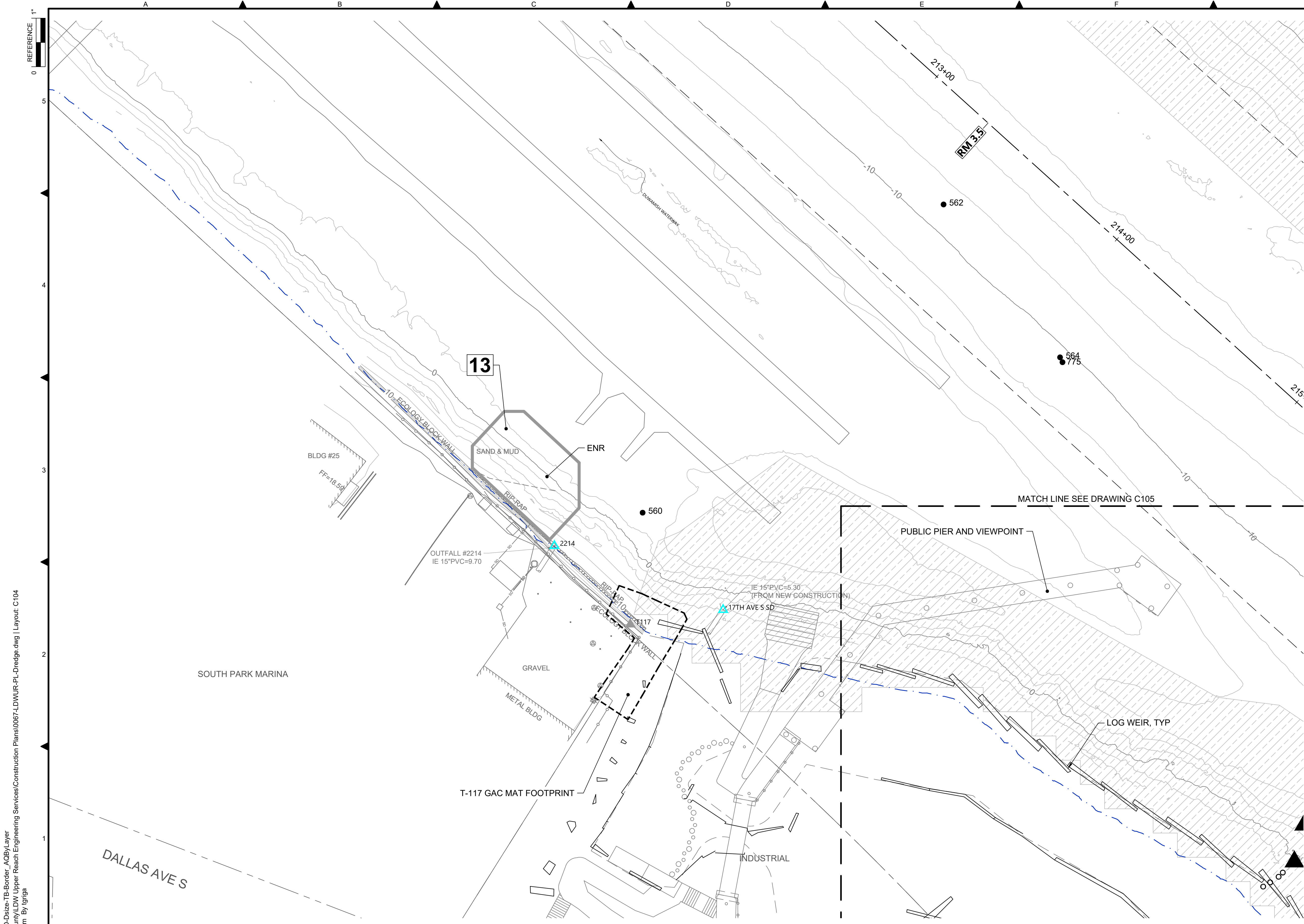
CHECKED: BIGSBY/GRIGA
 SCALE: AS NOTED
 PROJECT FILE NO: E00559E18
 CONTRACT NO: C0XXXXCX



DEPARTMENT OF NATURAL RESOURCES & PARKS
 WASTEWATER TREATMENT DIVISION
 LOWER DUWAMISH WATERWAY UPPER REACH
 SEDIMENT CLEANUP

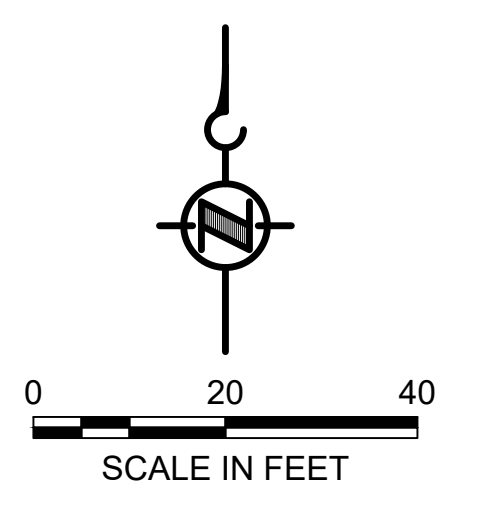
DREDGE PLAN (RM 3.23 TO 3.44)

DATE: JULY 2023
 DRAWING NO: **C103**
 SHT NO / TOTAL: 32 / 87
 REV NO: **0**



- LEGEND:**
- USACE CHANNEL CENTERLINE AND STATIONING
 - FEDERAL NAVIGATION CHANNEL
 - RM 3.0** RIVER MILE LABEL
 - EARLY ACTION AREA
 - LDW UPPER REACH APPROXIMATE BOUNDARY
 - EXISTING GRADE MERGED DATA SET CONTOURS (2' & 10' INTERVALS)
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 - DREDGE SLOPE SYMBOL
 - REQUIRED DREDGE ELEVATION IN FEET MLLW
 - REQUIRED DREDGE THICKNESS IN FEET
 - SEDIMENT MANAGEMENT AREA BOUNDARY
 - 14** SEDIMENT MANAGEMENT AREA NUMBER

- NOTES:**
1. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83 (2011), U.S. SURVEY FEET
 2. VERTICAL DATUM: MLLW
 3. DREDGE PRISM CORNER POINTS WILL BE EXPORTED AND PROVIDED TO THE CONTRACTOR UPON REQUEST.



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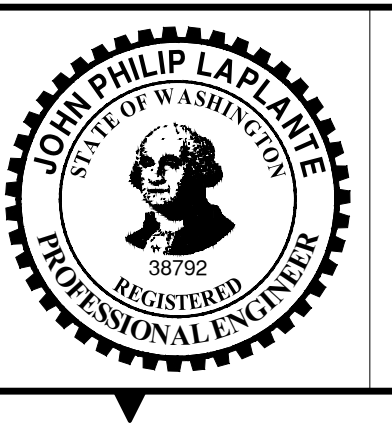
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NO	REVISION DESCRIPTION	BY	APVD	DATE

Lower Duwamish Waterway Group
Port of Seattle / City of Seattle / King County / The Boeing Company

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 JULY 2023



DESIGNED/DRAWN: K. GROSS	CHECKED: BIGSBY/GRIGA
PROJECT ENGINEER: J. LAPLANTE	SCALE: AS NOTED
DESIGN APPROVAL: T. WANG	PROJECT FILE NO: E00559E18
PROJECT ACCEPTANCE: PRJCT MNGR	CONTRACT NO: C0XXXXCX

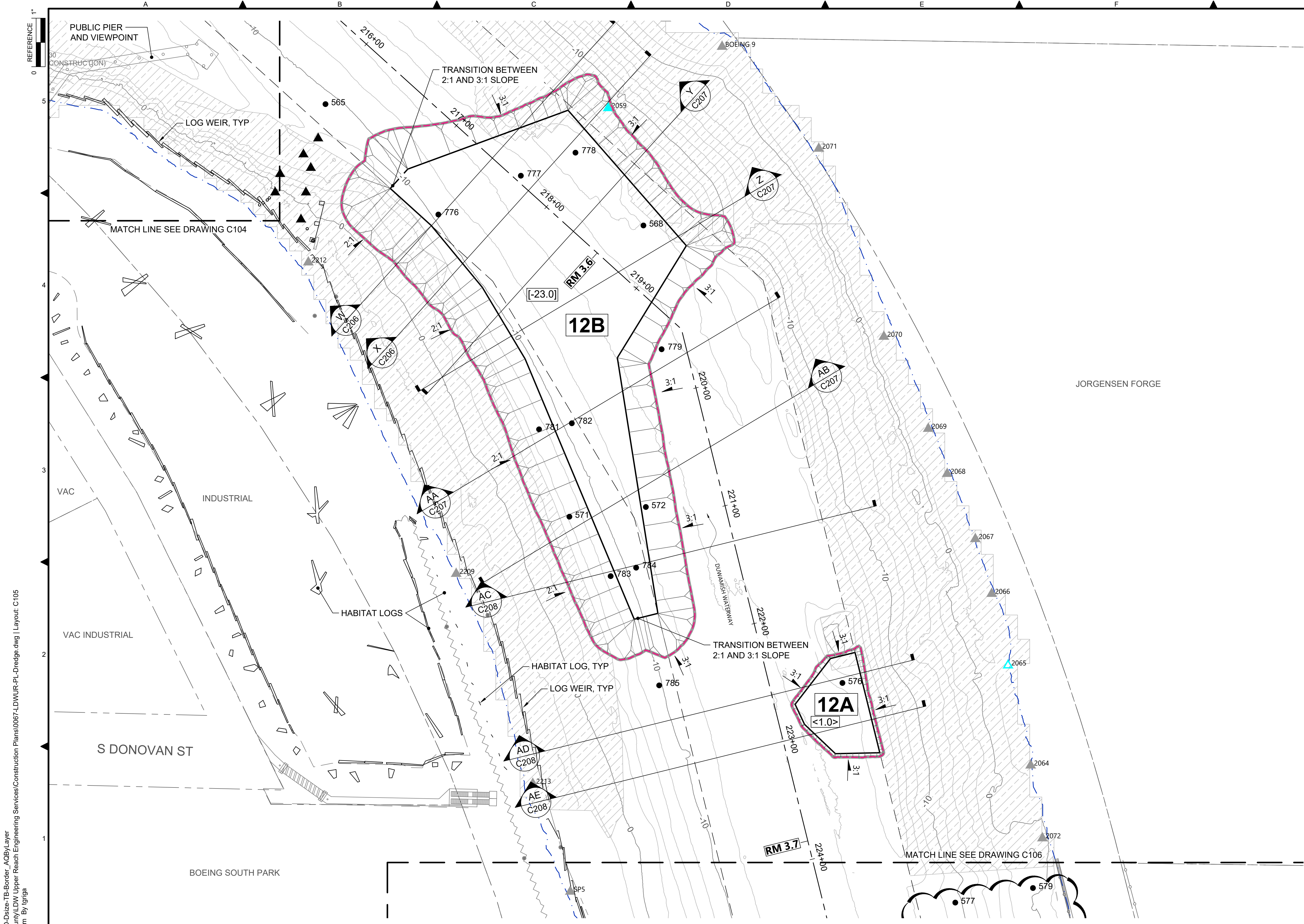


DEPARTMENT OF NATURAL RESOURCES & PARKS
 WASTEWATER TREATMENT DIVISION
 LOWER DUWAMISH WATERWAY UPPER REACH
 SEDIMENT CLEANUP

DREDGE PLAN (RM 3.49 TO 3.56)

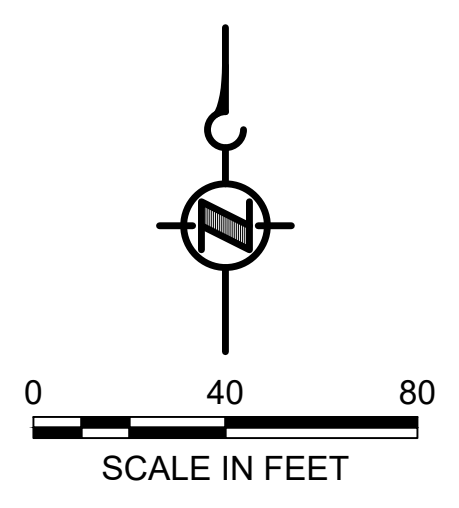
DATE:	JULY 2023
DRAWING NO:	C104
SHT NO / TOTAL	33 / 87
REV NO:	0

NOT FOR BIDDING



- LEGEND:**
- USACE CHANNEL CENTERLINE AND STATIONING
 - FEDERAL NAVIGATION CHANNEL
 - RM 3.0** RIVER MILE LABEL
 - EARLY ACTION AREA
 - LDW UPPER REACH APPROXIMATE BOUNDARY
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 - VERTICAL DELINEATION CORE LOCATION
 - DREDGE PRISM FOOTPRINT BOUNDARY (TOE OF CUT)
 - ESTIMATED DREDGE PRISM DAYLIGHT BOUNDARY
 - DREDGE SLOPE SYMBOL
 - [-22.0]** REQUIRED DREDGE ELEVATION IN FEET MLLW
 - <2.0>** REQUIRED DREDGE THICKNESS IN FEET
 - SEDIMENT MANAGEMENT AREA BOUNDARY
 - 14** SEDIMENT MANAGEMENT AREA NUMBER
 - DOLPHINS

- NOTES:**
1. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83 (2011), U.S. SURVEY FEET
 2. VERTICAL DATUM: MLLW
 3. DREDGE PRISM CORNER POINTS WILL BE EXPORTED AND PROVIDED TO THE CONTRACTOR UPON REQUEST.

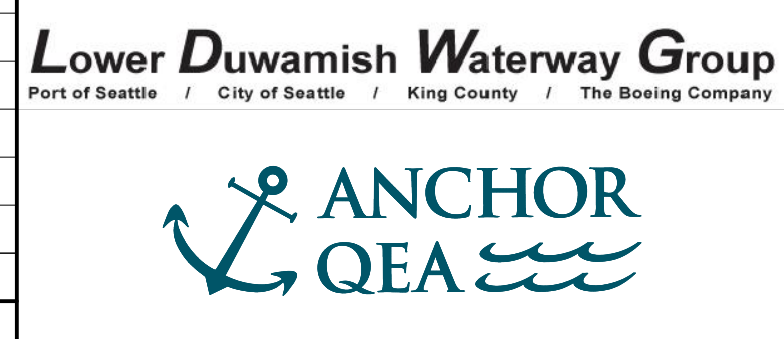


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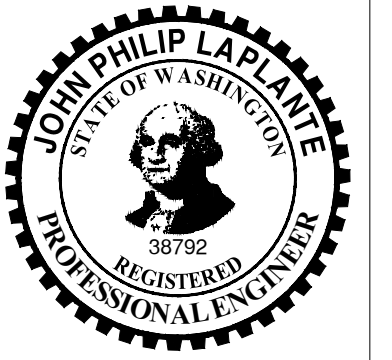
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 PLOTTED: Jul 21, 2023 - 11:34:45pm By: tgriga

NO	REVISION DESCRIPTION	BY	APVD	DATE



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 JULY 2023

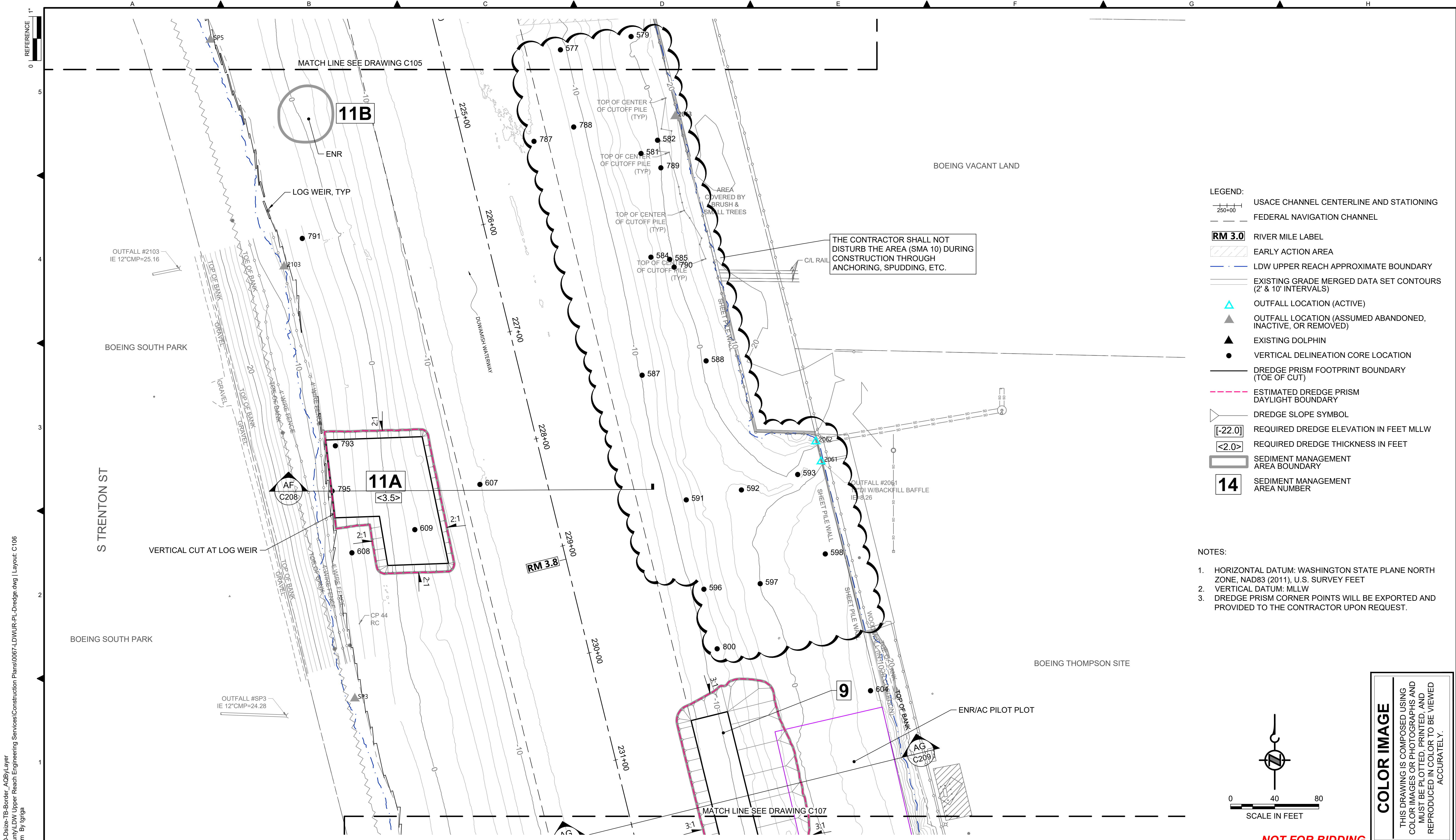


DESIGNED/DRAWN: K. GROSS	CHECKED: BIGSBY/GRIGA
PROJECT ENGINEER: J. LAPLANTE	SCALE: AS NOTED
DESIGN APPROVAL: T. WANG	PROJECT FILE NO: E00559E18
PROJECT ACCEPTANCE: PRJCT MNGR	CONTRACT NO: C0XXXXCXX



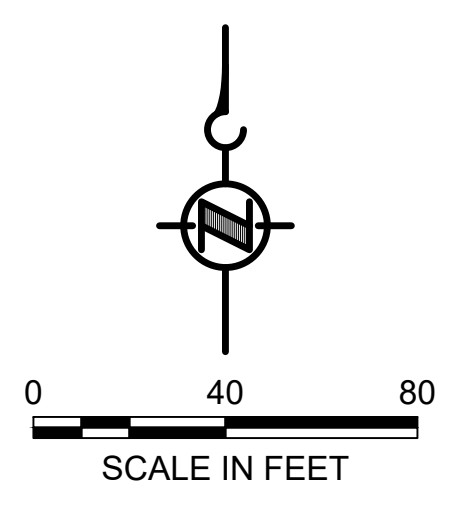
DEPARTMENT OF NATURAL RESOURCES & PARKS
 WASTEWATER TREATMENT DIVISION
 LOWER DUWAMISH WATERWAY UPPER REACH
 SEDIMENT CLEANUP
DREDGE PLAN (RM 3.54 TO 3.71)

DATE: JULY 2023
DRAWING NO: C105
SHT NO / TOTAL 34 / 87
REV NO: 0



- LEGEND:**
- USACE CHANNEL CENTERLINE AND STATIONING
 - FEDERAL NAVIGATION CHANNEL
 - RM 3.0** RIVER MILE LABEL
 - EARLY ACTION AREA
 - LDW UPPER REACH APPROXIMATE BOUNDARY
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 - [-22.0]** REQUIRED DREDGE ELEVATION IN FEET MLLW
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 - SEDIMENT MANAGEMENT AREA BOUNDARY
 - 14** SEDIMENT MANAGEMENT AREA NUMBER

- NOTES:**
1. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83 (2011), U.S. SURVEY FEET
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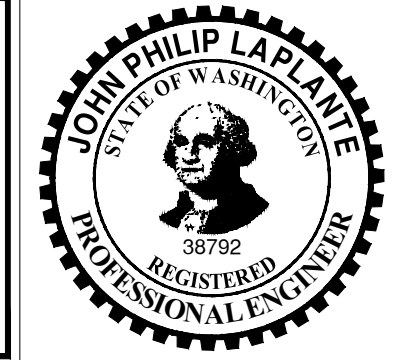
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 PLOTTED: Jul 21, 2023 - 11:35:30pm By: tgriga

NO	REVISION DESCRIPTION	BY	APVD	DATE

Lower Duwamish Waterway Group
 Port of Seattle / City of Seattle / King County / The Boeing Company

PRE-FINAL ISSUE DRAWING
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 JULY 2023



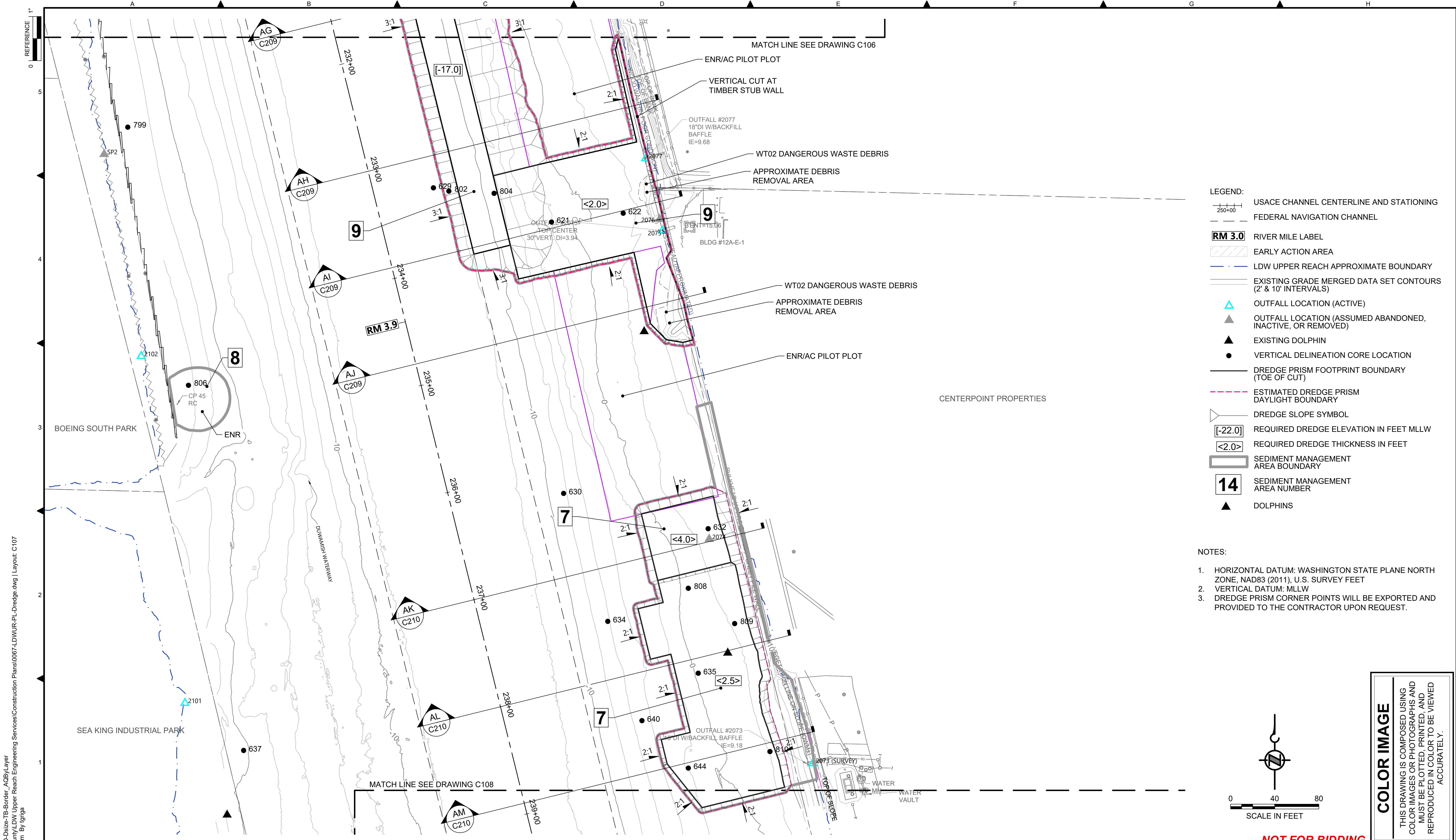
DESIGNED/DRAWN: K. GROSS	CHECKED: BIGSBY/GRIGA
PROJECT ENGINEER: J. LAPLANTE	SCALE: AS NOTED
DESIGN APPROVAL: T. WANG	PROJECT FILE NO: E00559E18
PROJECT ACCEPTANCE: PRJCT MNGR	CONTRACT NO: C0XXXXCX



DEPARTMENT OF NATURAL RESOURCES & PARKS
 WASTEWATER TREATMENT DIVISION
 LOWER DUWAMISH WATERWAY UPPER REACH
 SEDIMENT CLEANUP

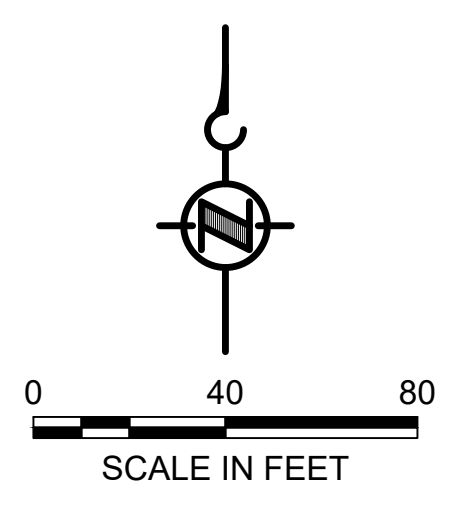
DREDGE PLAN (RM 3.73 TO 3.84)

DATE: JULY 2023
DRAWING NO: C106
SHT NO / TOTAL 35 / 87
REV NO: 0



- LEGEND:**
- USACE CHANNEL CENTERLINE AND STATIONING
 - FEDERAL NAVIGATION CHANNEL
 - RM 3.0** RIVER MILE LABEL
 - EARLY ACTION AREA
 - LDW UPPER REACH APPROXIMATE BOUNDARY
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 - 14** SEDIMENT MANAGEMENT AREA NUMBER
 - DOLPHINS

- NOTES:**
1. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83 (2011), U.S. SURVEY FEET
 2. VERTICAL DATUM: MLLW
 3. DREDGE PRISM CORNER POINTS WILL BE EXPORTED AND PROVIDED TO THE CONTRACTOR UPON REQUEST.

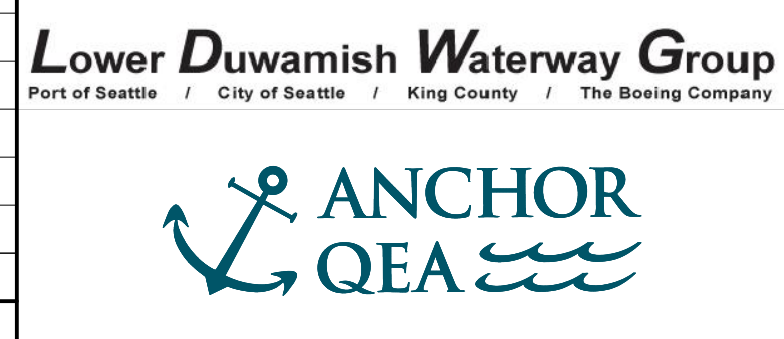


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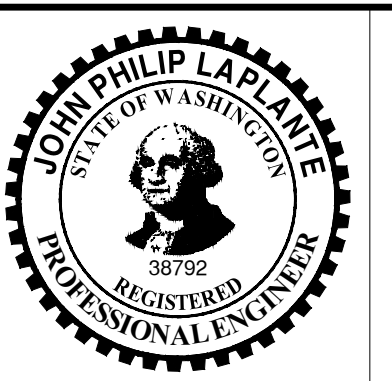
NOT FOR BIDDING

BORDER FILE EDITION: \\KCV\... \gial\CAD\Projects\0067-King County\LDW Upper Reach Engineering Services\Construction Plans\0067-LDWUR-PL-Dredge.dwg | Layout: C107
 PLOTTED: Jul 21, 2023 - 11:36:15pm By: tgriga

NO	REVISION DESCRIPTION	BY	APVD	DATE



PRE-FINAL ISSUE DRAWING
 INFORMATION ONLY
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 JULY 2023



DESIGNED/DRAWN: K. GROSS
 PROJECT ENGINEER: J. LAPLANTE
 DESIGN APPROVAL: T. WANG
 PROJECT ACCEPTANCE: PRJCT MNGR

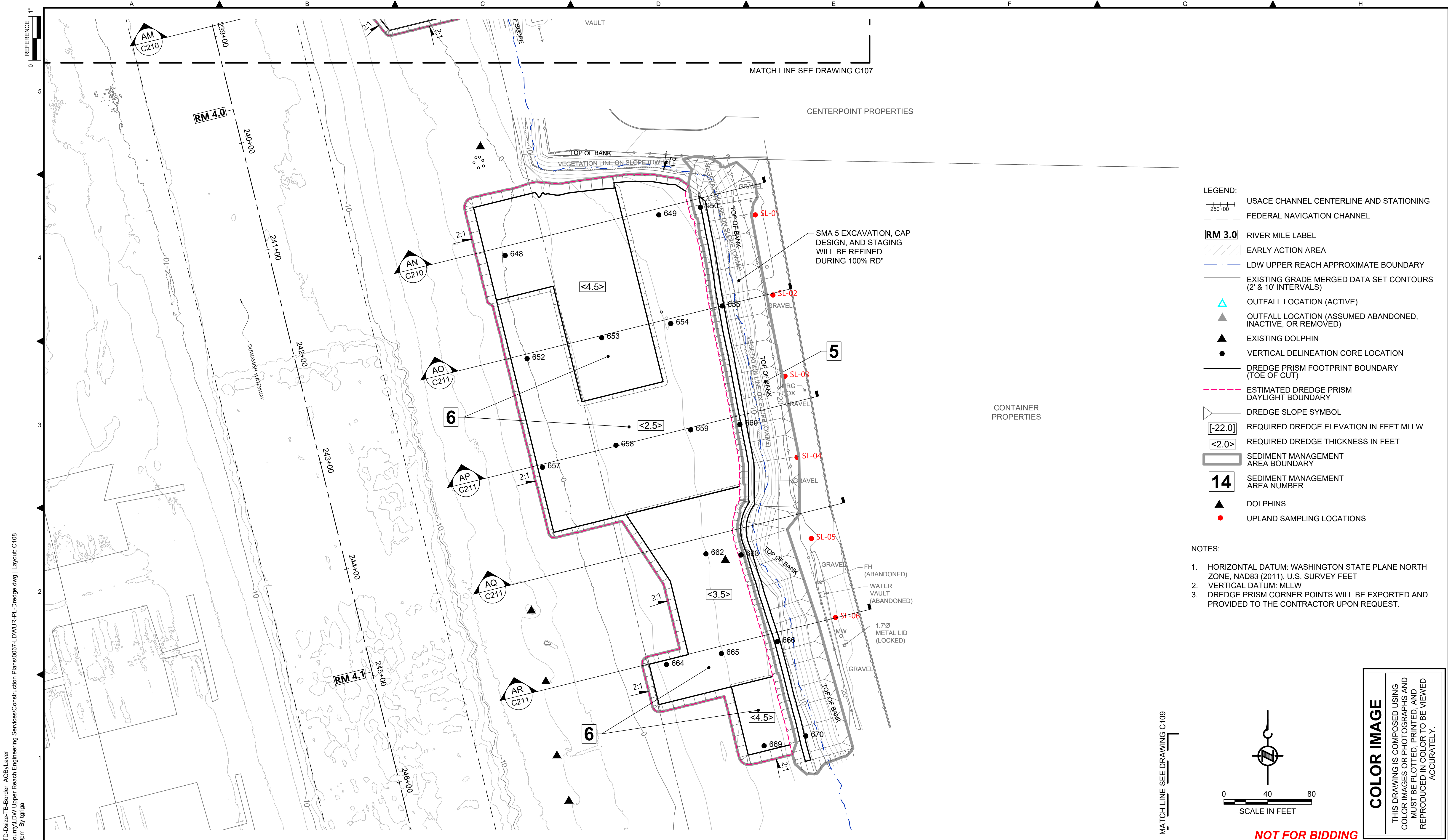
CHECKED: BIGSBY/GRIGA
 SCALE: AS NOTED
 PROJECT FILE NO: E00559E18
 CONTRACT NO: C0XXXXCX



DEPARTMENT OF NATURAL RESOURCES & PARKS
 WASTEWATER TREATMENT DIVISION
 LOWER DUWAMISH WATERWAY UPPER REACH
 SEDIMENT CLEANUP

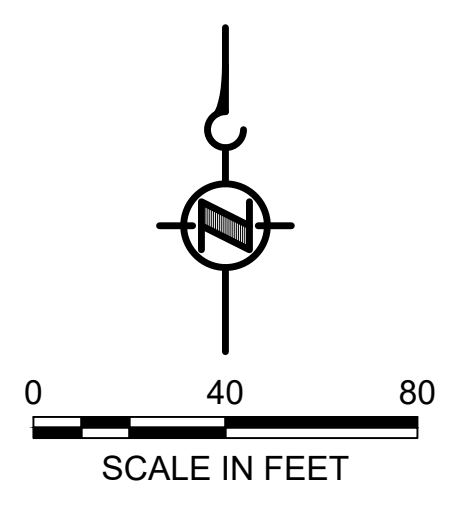
DREDGE PLAN (RM 3.85 TO 3.99)

DATE: JULY 2023
 DRAWING NO: **C107**
 SHT NO / TOTAL: 36 / 87
 REV NO: **0**



- LEGEND:**
- USACE CHANNEL CENTERLINE AND STATIONING
 - FEDERAL NAVIGATION CHANNEL
 - RM 3.0** RIVER MILE LABEL
 - EARLY ACTION AREA
 - LDW UPPER REACH APPROXIMATE BOUNDARY
 - EXISTING GRADE MERGED DATA SET CONTOURS (2' & 10' INTERVALS)
 - OUTFALL LOCATION (ACTIVE)
 - OUTFALL LOCATION (ASSUMED ABANDONED, INACTIVE, OR REMOVED)
 - EXISTING DOLPHIN
 - VERTICAL DELINEATION CORE LOCATION
 - DREDGE PRISM FOOTPRINT BOUNDARY (TOE OF CUT)
 - ESTIMATED DREDGE PRISM DAYLIGHT BOUNDARY
 - DREDGE SLOPE SYMBOL
 - REQUIRED DREDGE ELEVATION IN FEET MLLW [-22.0]
 - REQUIRED DREDGE THICKNESS IN FEET <2.0>
 - SEDIMENT MANAGEMENT AREA BOUNDARY
 - 14** SEDIMENT MANAGEMENT AREA NUMBER
 - DOLPHINS
 - UPLAND SAMPLING LOCATIONS

- NOTES:**
1. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83 (2011), U.S. SURVEY FEET
 2. VERTICAL DATUM: MLLW
 3. DREDGE PRISM CORNER POINTS WILL BE EXPORTED AND PROVIDED TO THE CONTRACTOR UPON REQUEST.



COLOR IMAGE
 THIS DRAWING IS COMPOSED USING COLOR IMAGES OR PHOTOGRAPHS AND MUST BE PLOTTED, PRINTED, AND REPRODUCED IN COLOR TO BE VIEWED ACCURATELY.

BORDER FILE EDITION: x:\KOVTD\Size-TB-Border_ACBY.Layer
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 PLOTTED: Jul 21, 2023 - 11:37:00pm By: tgriga

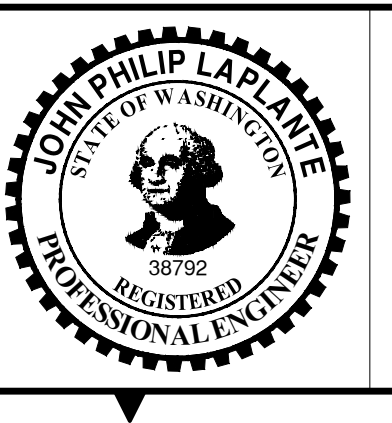
NO	REVISION DESCRIPTION	BY	APVD	DATE

Lower Duwamish Waterway Group
 Port of Seattle / City of Seattle / King County / The Boeing Company

PRE-FINAL ISSUE DRAWING
 INFORMATION ONLY

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JULY 2023



DESIGNED/DRAWN: K. GROSS	CHECKED: BIGSBY/GRIGA
PROJECT ENGINEER: J. LAPLANTE	SCALE: AS NOTED
DESIGN APPROVAL: T. WANG	PROJECT FILE NO: E00559E18
PROJECT ACCEPTANCE: PRJCT MNGR	CONTRACT NO: C0XXXXCX

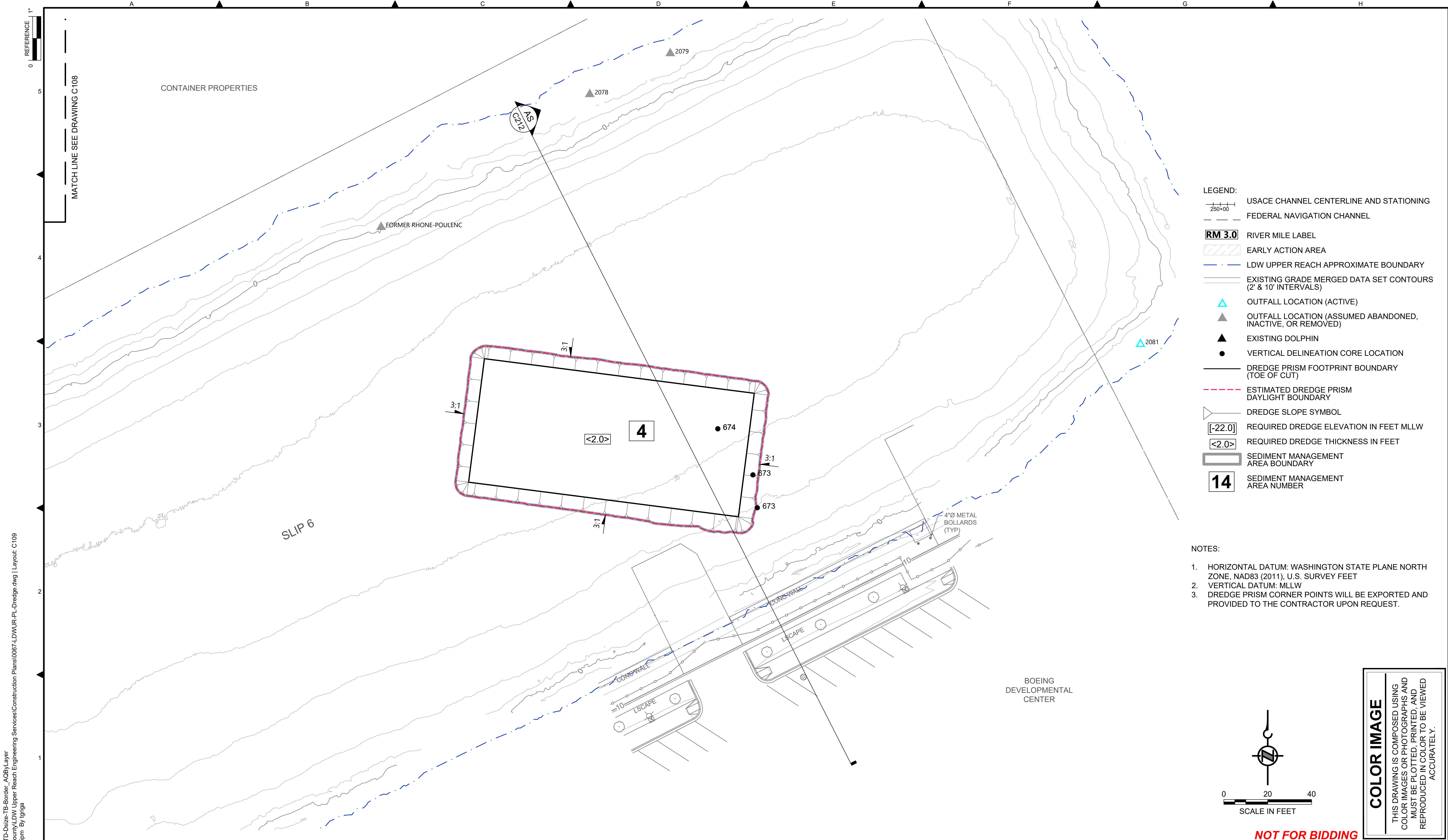


DEPARTMENT OF NATURAL RESOURCES & PARKS
 WASTEWATER TREATMENT DIVISION
 LOWER DUWAMISH WATERWAY UPPER REACH
 SEDIMENT CLEANUP

DREDGE PLAN (RM 3.98 TO 4.13)

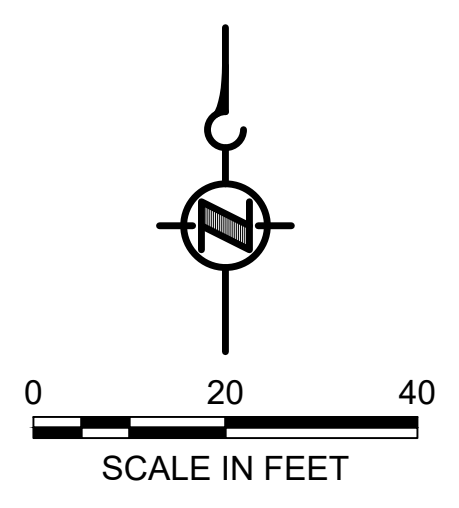
DATE: JULY 2023
DRAWING NO: C108
SHT NO / TOTAL 37 / 87
REV NO: 0

NOT FOR BIDDING



- LEGEND:**
- USACE CHANNEL CENTERLINE AND STATIONING
 - FEDERAL NAVIGATION CHANNEL
 - RM 3.0** RIVER MILE LABEL
 - EARLY ACTION AREA
 - LDW UPPER REACH APPROXIMATE BOUNDARY
 - EXISTING GRADE MERGED DATA SET CONTOURS (2' & 10' INTERVALS)
 - OUTFALL LOCATION (ACTIVE)
 - OUTFALL LOCATION (ASSUMED ABANDONED, INACTIVE, OR REMOVED)
 - EXISTING DOLPHIN
 - VERTICAL DELINEATION CORE LOCATION
 - DREDGE PRISM FOOTPRINT BOUNDARY (TOE OF CUT)
 - ESTIMATED DREDGE PRISM DAYLIGHT BOUNDARY
 - DREDGE SLOPE SYMBOL
 - REQUIRED DREDGE ELEVATION IN FEET MLLW [-22.0]
 - REQUIRED DREDGE THICKNESS IN FEET <2.0>
 - SEDIMENT MANAGEMENT AREA BOUNDARY
 - 14** SEDIMENT MANAGEMENT AREA NUMBER

- NOTES:**
1. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83 (2011), U.S. SURVEY FEET
 2. VERTICAL DATUM: MLLW
 3. DREDGE PRISM CORNER POINTS WILL BE EXPORTED AND PROVIDED TO THE CONTRACTOR UPON REQUEST.

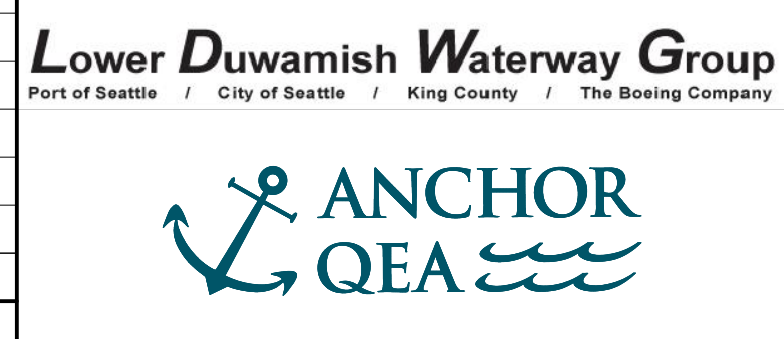


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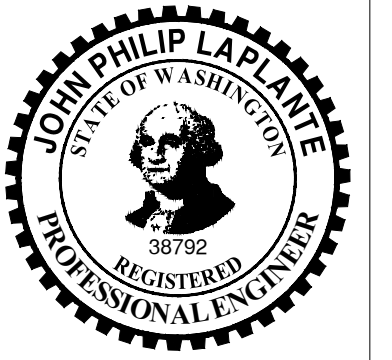
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BORDER FILE EDITION: \\KOV\TD-Size-TB-Border_ACBY\Layer_Vgial\CAD\Projects\0067-King County\DW Upper Reach Engineering Services\Construction Plans\0067-LDWUR-PL-Dredge.dwg | Layout: C109
 PLOTTED: Jul 21, 2023 - 11:37:45pm By: tgriga

NO	REVISION DESCRIPTION	BY	APVD	DATE



PRE-FINAL ISSUE DRAWING
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 JULY 2023



DESIGNED/DRAWN: K. GROSS
 PROJECT ENGINEER: J. LAPLANTE
 DESIGN APPROVAL: T. WANG
 PROJECT ACCEPTANCE: PRJCT MNGR

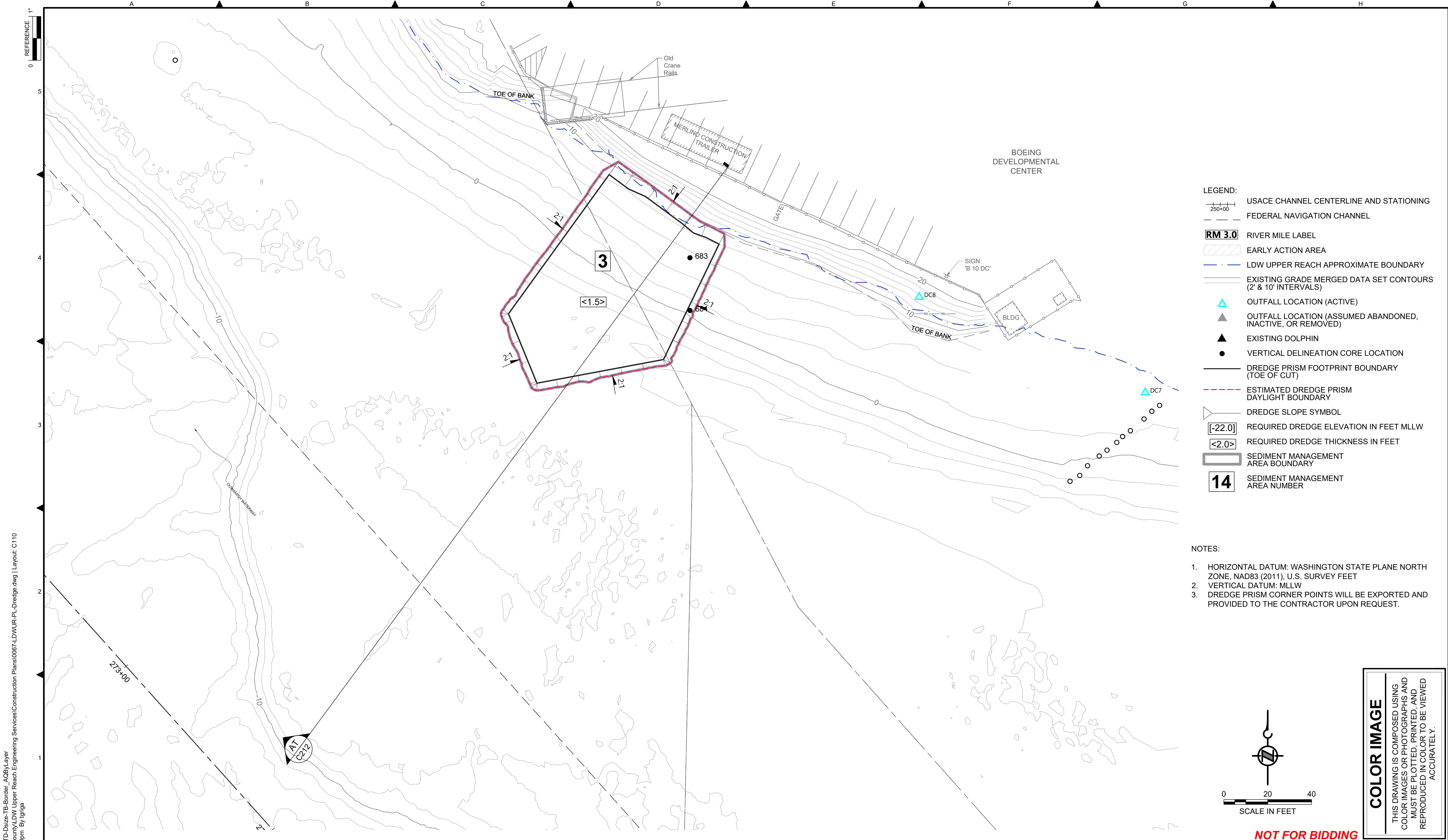
CHECKED: BIGSBY/GRIGA
 SCALE: AS NOTED
 PROJECT FILE NO: E00559E18
 CONTRACT NO: C0XXXXCX



DEPARTMENT OF NATURAL RESOURCES & PARKS
 WASTEWATER TREATMENT DIVISION
 LOWER DUWAMISH WATERWAY UPPER REACH
 SEDIMENT CLEANUP

DREDGE PLAN (RM 4.14 TO 4.23)

DATE: JULY 2023
 DRAWING NO: **C109**
 SHT NO / TOTAL: 38 / 87
 REV NO: **0**



- LEGEND:**
- USACE CHANNEL CENTERLINE AND STATIONING
 - FEDERAL NAVIGATION CHANNEL
 - RM 3.0** RIVER MILE LABEL
 - EARLY ACTION AREA
 - LDW UPPER REACH APPROXIMATE BOUNDARY
 - EXISTING GRADE MERGED DATA SET CONTOURS (2' & 10' INTERVALS)
 - OUTFALL LOCATION (ACTIVE)
 - OUTFALL LOCATION (ASSUMED ABANDONED, INACTIVE, OR REMOVED)
 - EXISTING DOLPHIN
 - VERTICAL DELINEATION CORE LOCATION
 - DREDGE PRISM FOOTPRINT BOUNDARY (TOE OF CUT)
 - ESTIMATED DREDGE PRISM DAYLIGHT BOUNDARY
 - DREDGE SLOPE SYMBOL
 - REQUIRED DREDGE ELEVATION IN FEET MLLW [-22.0]
 - REQUIRED DREDGE THICKNESS IN FEET <2.0>
 - SEDIMENT MANAGEMENT AREA BOUNDARY
 - 14** SEDIMENT MANAGEMENT AREA NUMBER

- NOTES:**
1. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83 (2011), U.S. SURVEY FEET
 2. VERTICAL DATUM: MLLW
 3. DREDGE PRISM CORNER POINTS WILL BE EXPORTED AND PROVIDED TO THE CONTRACTOR UPON REQUEST.

BORDER FILE EDITION: \\KOVTD-Size-TB-Border_ACBY.Layer
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 PLOTTED: Jul 21, 2023 - 11:38:30pm By: tgriga

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 ACCURATELY.

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NO	REVISION DESCRIPTION	BY	APVD	DATE

Lower Duwamish Waterway Group
 Port of Seattle / City of Seattle / King County / The Boeing Company

PRE-FINAL ISSUE DRAWING
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 JULY 2023

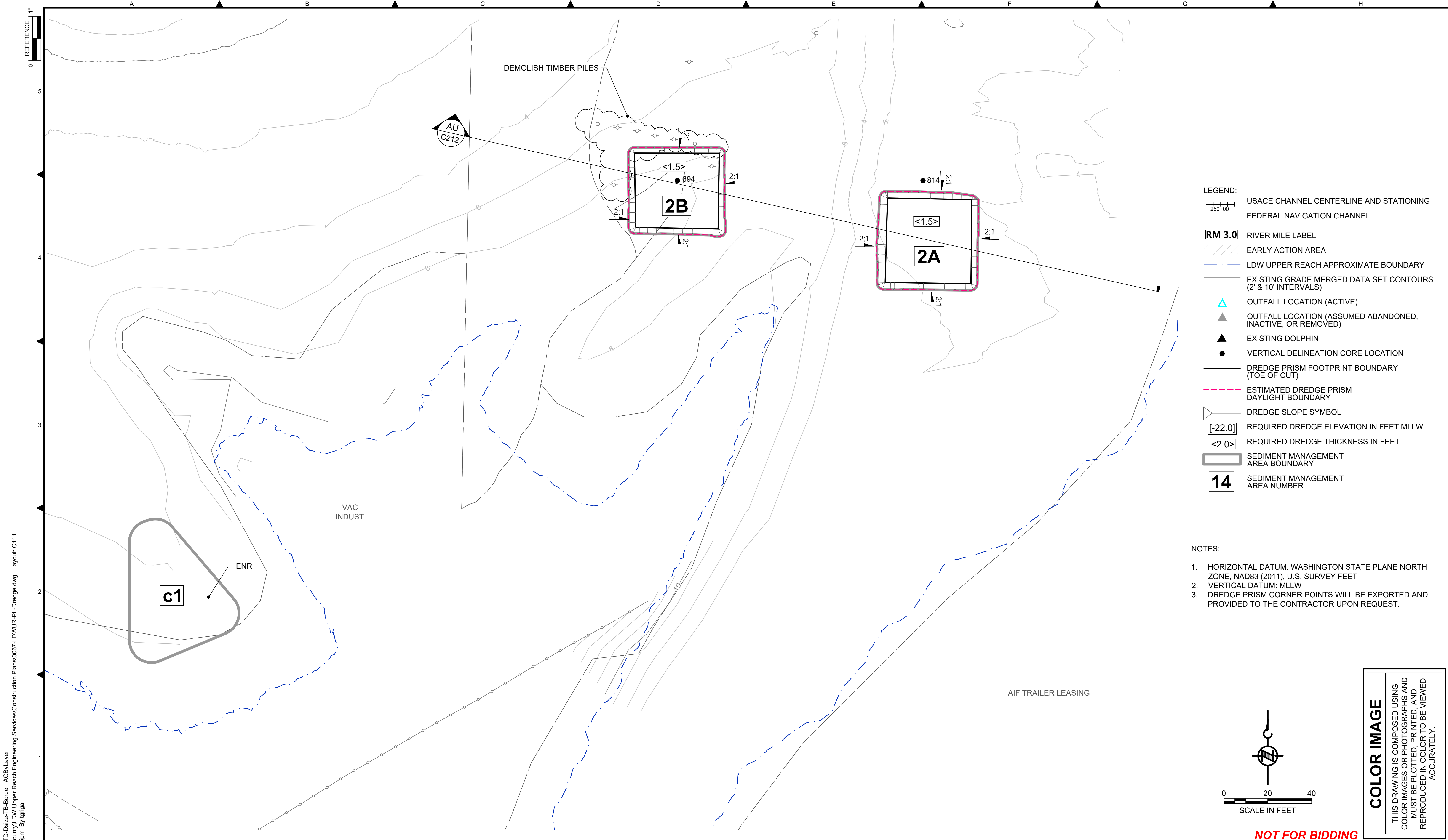


DESIGNED/DRAWN: K. GROSS	CHECKED: BIGSBY/GRIGA
PROJECT ENGINEER: J. LAPLANTE	SCALE: AS NOTED
DESIGN APPROVAL: T. WANG	PROJECT FILE NO: E00559E18
PROJECT ACCEPTANCE: PRJCT MNGR	CONTRACT NO: C0XXXXCXX



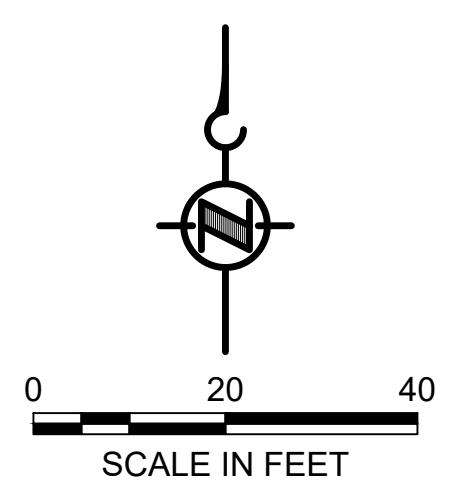
DEPARTMENT OF NATURAL RESOURCES & PARKS
 WASTEWATER TREATMENT DIVISION
 LOWER DUWAMISH WATERWAY UPPER REACH
 SEDIMENT CLEANUP
DREDGE PLAN (RM 4.57 TO 4.66)

DATE:	JULY 2023
DRAWING NO:	C110
SHT NO / TOTAL	39 / 87
REV NO:	0



- LEGEND:**
- USACE CHANNEL CENTERLINE AND STATIONING
 - FEDERAL NAVIGATION CHANNEL
 - RM 3.0** RIVER MILE LABEL
 - EARLY ACTION AREA
 - LDW UPPER REACH APPROXIMATE BOUNDARY
 - EXISTING GRADE MERGED DATA SET CONTOURS (2' & 10' INTERVALS)
 - OUTFALL LOCATION (ACTIVE)
 - OUTFALL LOCATION (ASSUMED ABANDONED, INACTIVE, OR REMOVED)
 - EXISTING DOLPHIN
 - VERTICAL DELINEATION CORE LOCATION
 - DREDGE PRISM FOOTPRINT BOUNDARY (TOE OF CUT)
 - ESTIMATED DREDGE PRISM DAYLIGHT BOUNDARY
 - DREDGE SLOPE SYMBOL
 - [-22.0]** REQUIRED DREDGE ELEVATION IN FEET MLLW
 - <2.0>** REQUIRED DREDGE THICKNESS IN FEET
 - SEDIMENT MANAGEMENT AREA BOUNDARY
 - 14** SEDIMENT MANAGEMENT AREA NUMBER

- NOTES:**
1. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83 (2011), U.S. SURVEY FEET
 2. VERTICAL DATUM: MLLW
 3. DREDGE PRISM CORNER POINTS WILL BE EXPORTED AND PROVIDED TO THE CONTRACTOR UPON REQUEST.

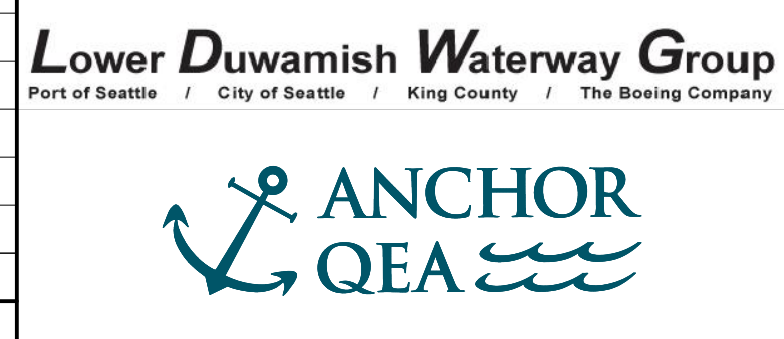


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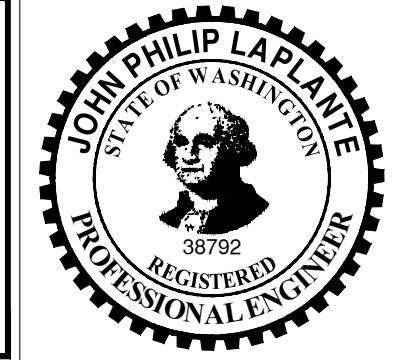
NOT FOR BIDDING

BORDER FILE EDITION: \\KOV\TD-Size-TB-Border_ACBY\layer\gial\CAD\Projects\0067-King County\DW Upper Reach Engineering Services\Construction Plans\0067-LDWUR-PL-Dredge.dwg | Layout: C111
PLOTTED: Jul 21, 2023 - 11:39:15pm By: tgriga

NO	REVISION DESCRIPTION	BY	APVD	DATE



PRE-FINAL ISSUE DRAWING
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JULY 2023



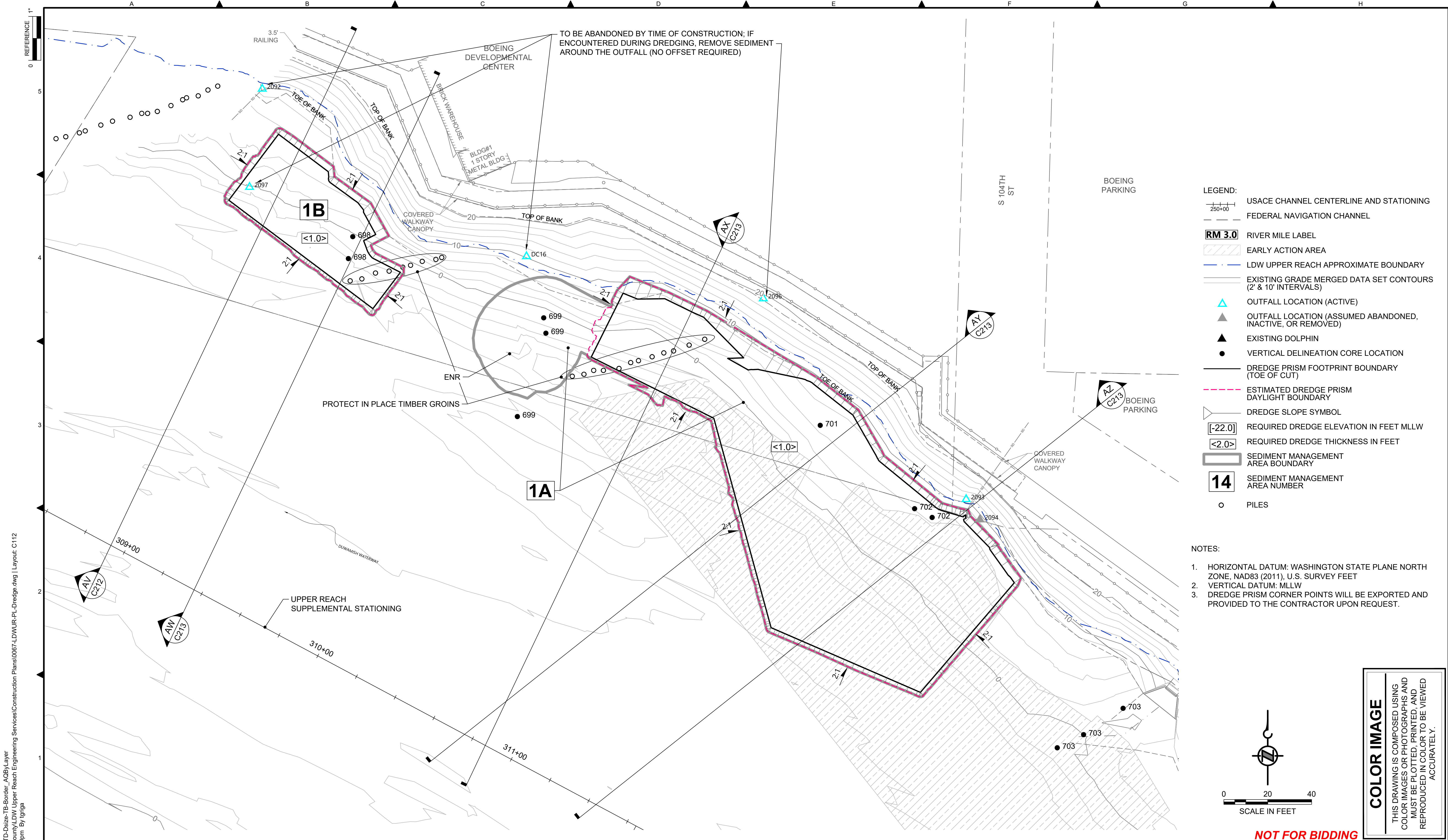
DESIGNED/DRAWN: K. GROSS	CHECKED: BIGSBY/GRIGA
PROJECT ENGINEER: J. LAPLANTE	SCALE: AS NOTED
DESIGN APPROVAL: T. WANG	PROJECT FILE NO: E00559E18
PROJECT ACCEPTANCE: PRJCT MNGR	CONTRACT NO: C0XXXXCXX



DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
LOWER DUWAMISH WATERWAY UPPER REACH
SEDIMENT CLEANUP

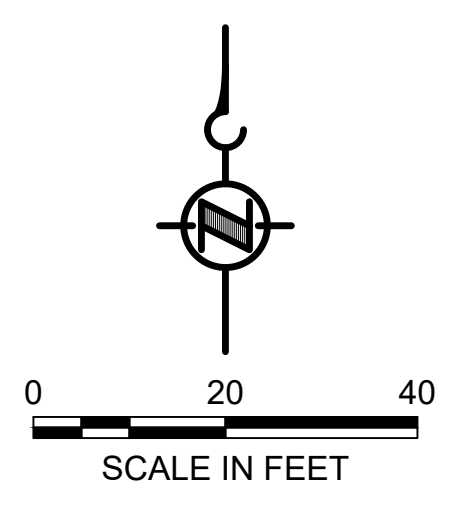
DREDGE PLAN (RM 4.64 TO 4.76)

DATE:	JULY 2023
DRAWING NO:	C111
SHT NO / TOTAL	40 / 87
REV NO:	0



- LEGEND:**
- USACE CHANNEL CENTERLINE AND STATIONING
 - FEDERAL NAVIGATION CHANNEL
 - RM 3.0** RIVER MILE LABEL
 - EARLY ACTION AREA
 - LDW UPPER REACH APPROXIMATE BOUNDARY
 - EXISTING GRADE MERGED DATA SET CONTOURS (2' & 10' INTERVALS)
 - OUTFALL LOCATION (ACTIVE)
 - OUTFALL LOCATION (ASSUMED ABANDONED, INACTIVE, OR REMOVED)
 - EXISTING DOLPHIN
 - VERTICAL DELINEATION CORE LOCATION
 - DREDGE PRISM FOOTPRINT BOUNDARY (TOE OF CUT)
 - ESTIMATED DREDGE PRISM DAYLIGHT BOUNDARY
 - DREDGE SLOPE SYMBOL
 - REQUIRED DREDGE ELEVATION IN FEET MLLW [-22.0]
 - REQUIRED DREDGE THICKNESS IN FEET <2.0>
 - SEDIMENT MANAGEMENT AREA BOUNDARY
 - 14** SEDIMENT MANAGEMENT AREA NUMBER
 - PILES

- NOTES:**
1. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83 (2011), U.S. SURVEY FEET
 2. VERTICAL DATUM: MLLW
 3. DREDGE PRISM CORNER POINTS WILL BE EXPORTED AND PROVIDED TO THE CONTRACTOR UPON REQUEST.



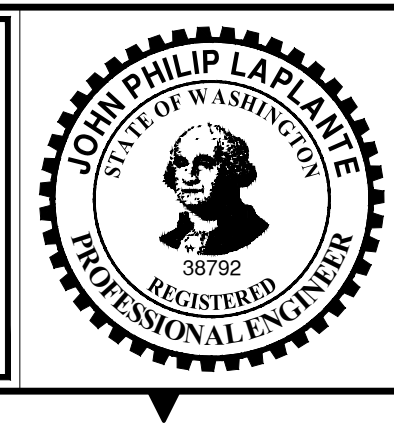
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 PLOTTED: Jul 21, 2023 - 11:40:00pm By: tgriga

NO	REVISION DESCRIPTION	BY	APVD	DATE

Port of Seattle / City of Seattle / King County / The Boeing Company

PRE-FINAL ISSUE DRAWING
 INFORMATION ONLY
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 JULY 2023



DESIGNED/DRAWN: K. GROSS	CHECKED: BIGSBY/GRIGA
PROJECT ENGINEER: J. LAPLANTE	SCALE: AS NOTED
DESIGN APPROVAL: T. WANG	PROJECT FILE NO: E00559E18
PROJECT ACCEPTANCE: PRJCT MNGR	CONTRACT NO: C0XXXXCX

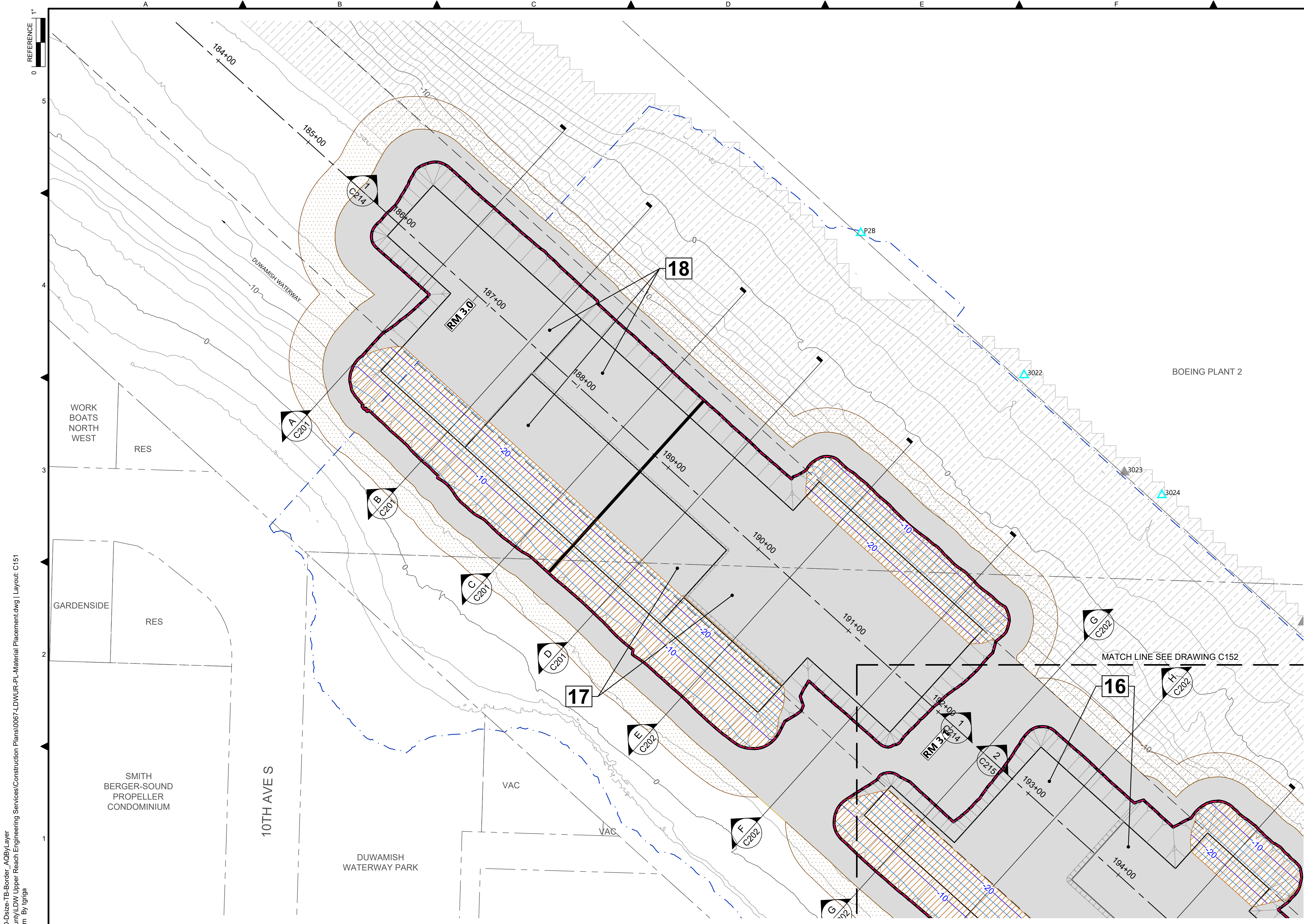


DEPARTMENT OF NATURAL RESOURCES & PARKS
 WASTEWATER TREATMENT DIVISION
 LOWER DUWAMISH WATERWAY UPPER REACH
 SEDIMENT CLEANUP

DREDGE PLAN (RM 4.84 TO 4.95)

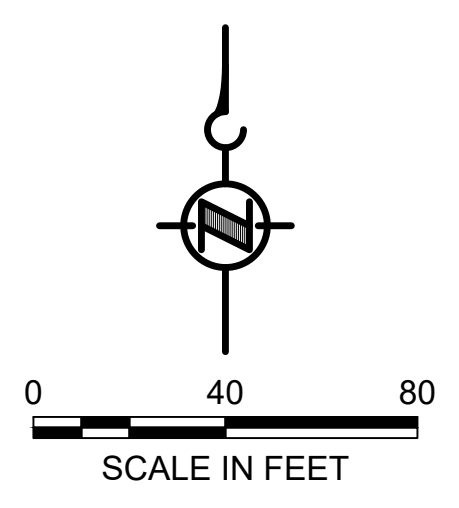
DATE:	JULY 2023
DRAWING NO:	C112
SHT NO / TOTAL	41 / 87
REV NO:	0

NOT FOR BIDDING



- LEGEND:**
- USACE CHANNEL CENTERLINE AND STATIONING
 - FEDERAL NAVIGATION CHANNEL
 - RM 3.0** RIVER MILE LABEL
 - EARLY ACTION AREA
 - LDW UPPER REACH APPROXIMATE BOUNDARY
 - EXISTING GRADE MERGED DATA SET CONTOURS (2' & 10' INTERVALS)
 - OUTFALL LOCATION (ACTIVE)
 - OUTFALL LOCATION (PRESUMED ABANDONED, INACTIVE, OR REMOVED)
 - EXISTING PILES
 - EXISTING DOLPHINS
 - ESTIMATED DREDGE PRISM
 - SEDIMENT MANAGEMENT AREA BOUNDARY
 - 14** SEDIMENT MANAGEMENT AREA NUMBER
 - BACKFILL A W/ PROPOSED CONTOURS (2' & 10' INTERVALS) 1 C303
 - BACKFILL B W/ PROPOSED CONTOURS (2' & 10' INTERVALS) 2 C303
 - REQUIRED RMC (WITHIN DREDGE FOOTPRINT) AND INNER PERIMETER RMC 6 C303
 - REQUIRED RMC AREA ON SIDESLOPES 7 C303
 - CONTINGENT OUTER PERIMETER RMC ONLY AS DIRECTED BY THE PROJECT REPRESENTATIVE 6 C303
 - REMEDIAL ACTION AREA: ENR 3 C303
 - REMEDIAL ACTION AREA: AMENDED COVER 4 C303
 - ENR/AC PILOT PLOT: AREA-SPECIFIC TECHNOLOGY A
 - ENGINEERED CAP A OR B FOOTPRINT 5 C303

- NOTES:**
1. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83 (2011), U.S. SURVEY FEET
 2. VERTICAL DATUM: MLLW
 3. MATERIAL PLACEMENT EXTENTS ARE APPROXIMATE AND WILL BE ADJUSTED BASED ON ACTUAL EXTENTS OF DREDGING.
 4. NO MATERIAL PLACEMENT ALLOWED UNTIL AUTHORIZED BY THE PROJECT REPRESENTATIVE.



COLOR IMAGE
 THIS DRAWING IS COMPOSED USING COLOR IMAGES OR PHOTOGRAPHS AND MUST BE PLOTTED, PRINTED, AND REPRODUCED IN COLOR TO BE VIEWED ACCURATELY.

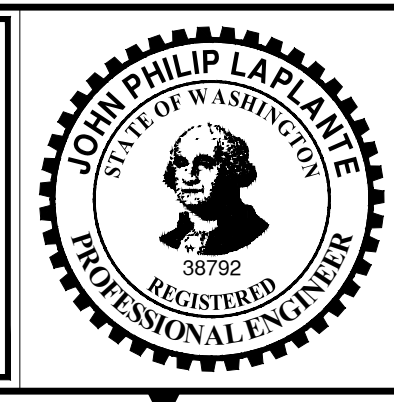
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 PLOTTED: Jul 21, 2023 - 11:40:53pm By: tgriga

NO	REVISION DESCRIPTION	BY	APVD	DATE

Lower Duwamish Waterway Group
 Port of Seattle / City of Seattle / King County / The Boeing Company

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PRE-FINAL ISSUE DRAWING
 INFORMATION ONLY
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 JULY 2023



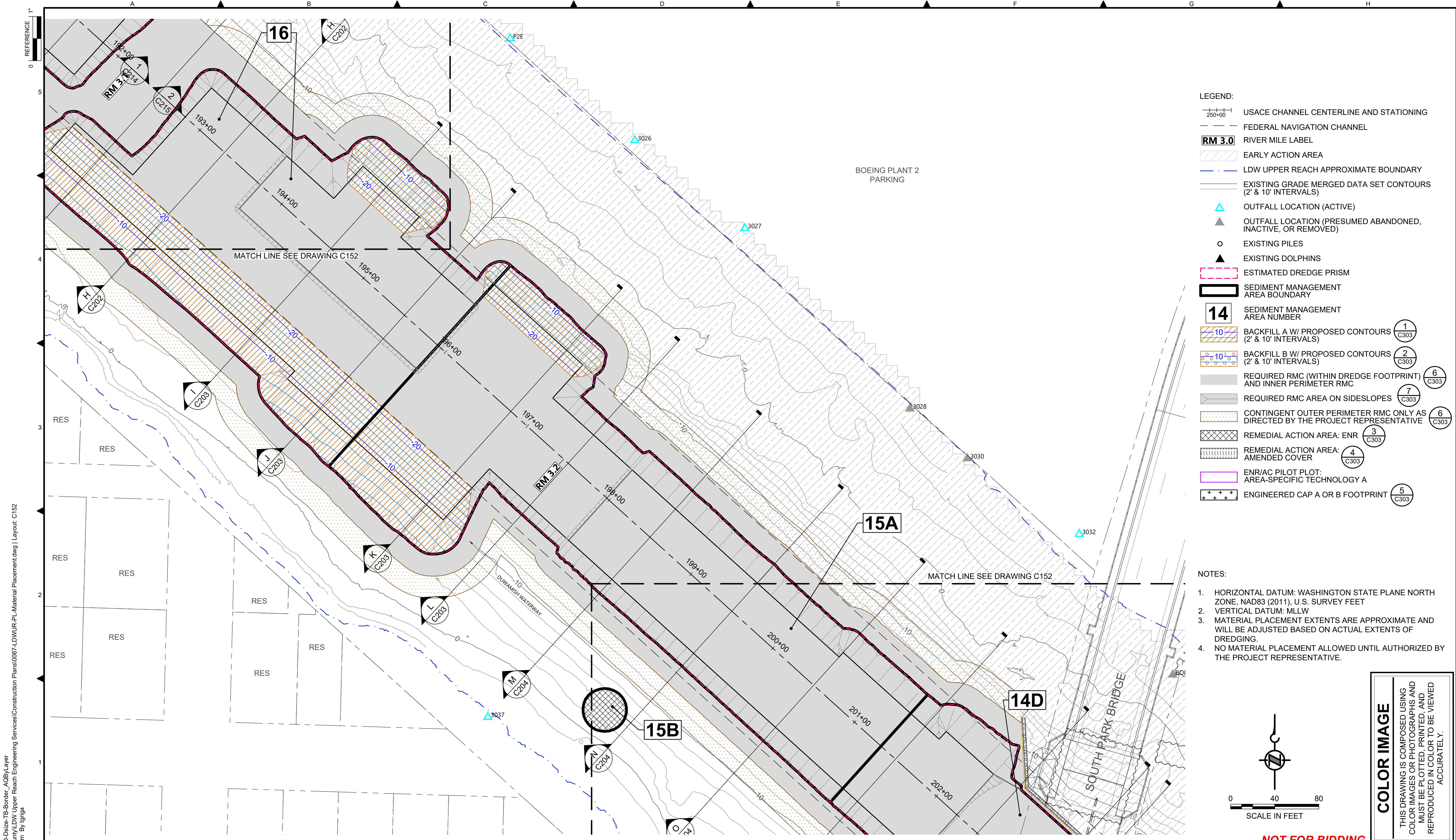
DESIGNED/DRAWN: K. GROSS	CHECKED: BIGSBY/GRIGA
PROJECT ENGINEER: J. LAPLANTE	SCALE: AS NOTED
DESIGN APPROVAL: T. WANG	PROJECT FILE NO: E00559E18
PROJECT ACCEPTANCE: PRJCT MNGR	CONTRACT NO: C0XXXXCX



DEPARTMENT OF NATURAL RESOURCES & PARKS
 WASTEWATER TREATMENT DIVISION
 LOWER DUWAMISH WATERWAY UPPER REACH
 SEDIMENT CLEANUP
MATERIAL PLACEMENT PLAN
 (RM 2.93 TO 3.15)

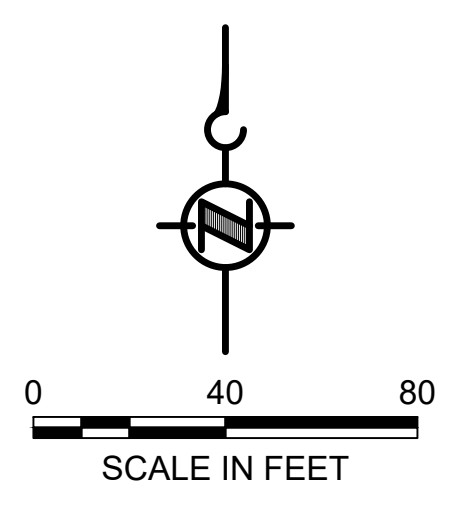
DATE:	JULY 2023
DRAWING NO:	C151
SHT NO / TOTAL	42 / 87
REV NO:	0

NOT FOR BIDDING



- LEGEND:**
- USACE CHANNEL CENTERLINE AND STATIONING
 - FEDERAL NAVIGATION CHANNEL
 - RIVER MILE LABEL
 - EARLY ACTION AREA
 - LDW UPPER REACH APPROXIMATE BOUNDARY
 - EXISTING GRADE MERGED DATA SET CONTOURS (2' & 10' INTERVALS)
 - OUTFALL LOCATION (ACTIVE)
 - OUTFALL LOCATION (PRESUMED ABANDONED, INACTIVE, OR REMOVED)
 - EXISTING PILES
 - EXISTING DOLPHINS
 - ESTIMATED DREDGE PRISM
 - SEDIMENT MANAGEMENT AREA BOUNDARY
 - SEDIMENT MANAGEMENT AREA NUMBER
 - BACKFILL A W/ PROPOSED CONTOURS (2' & 10' INTERVALS)
 - BACKFILL B W/ PROPOSED CONTOURS (2' & 10' INTERVALS)
 - REQUIRED RMC (WITHIN DREDGE FOOTPRINT) AND INNER PERIMETER RMC
 - REQUIRED RMC AREA ON SIDESLOPES
 - CONTINGENT OUTER PERIMETER RMC ONLY AS DIRECTED BY THE PROJECT REPRESENTATIVE
 - REMEDIAL ACTION AREA: ENR AMENDED COVER
 - REMEDIAL ACTION AREA: AMENDED COVER
 - ENR/AC PILOT PLOT: AREA-SPECIFIC TECHNOLOGY A
 - ENGINEERED CAP A OR B FOOTPRINT

- NOTES:**
1. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83 (2011), U.S. SURVEY FEET
 2. VERTICAL DATUM: MLLW
 3. MATERIAL PLACEMENT EXTENTS ARE APPROXIMATE AND WILL BE ADJUSTED BASED ON ACTUAL EXTENTS OF DREDGING.
 4. NO MATERIAL PLACEMENT ALLOWED UNTIL AUTHORIZED BY THE PROJECT REPRESENTATIVE.

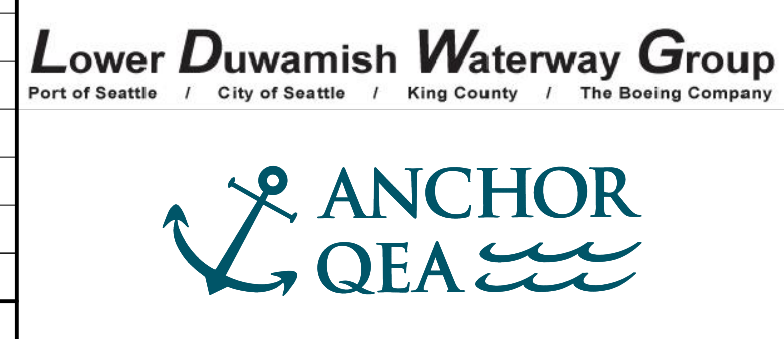


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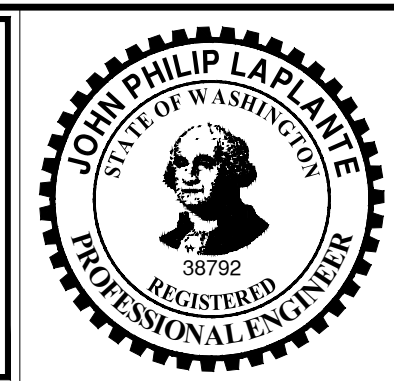
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 PLOTTED: Jul 21, 2023 - 11:41:38pm By: tgriga

NO	REVISION DESCRIPTION	BY	APVD	DATE



PRE-FINAL ISSUE DRAWING
 INFORMATION ONLY
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 JULY 2023

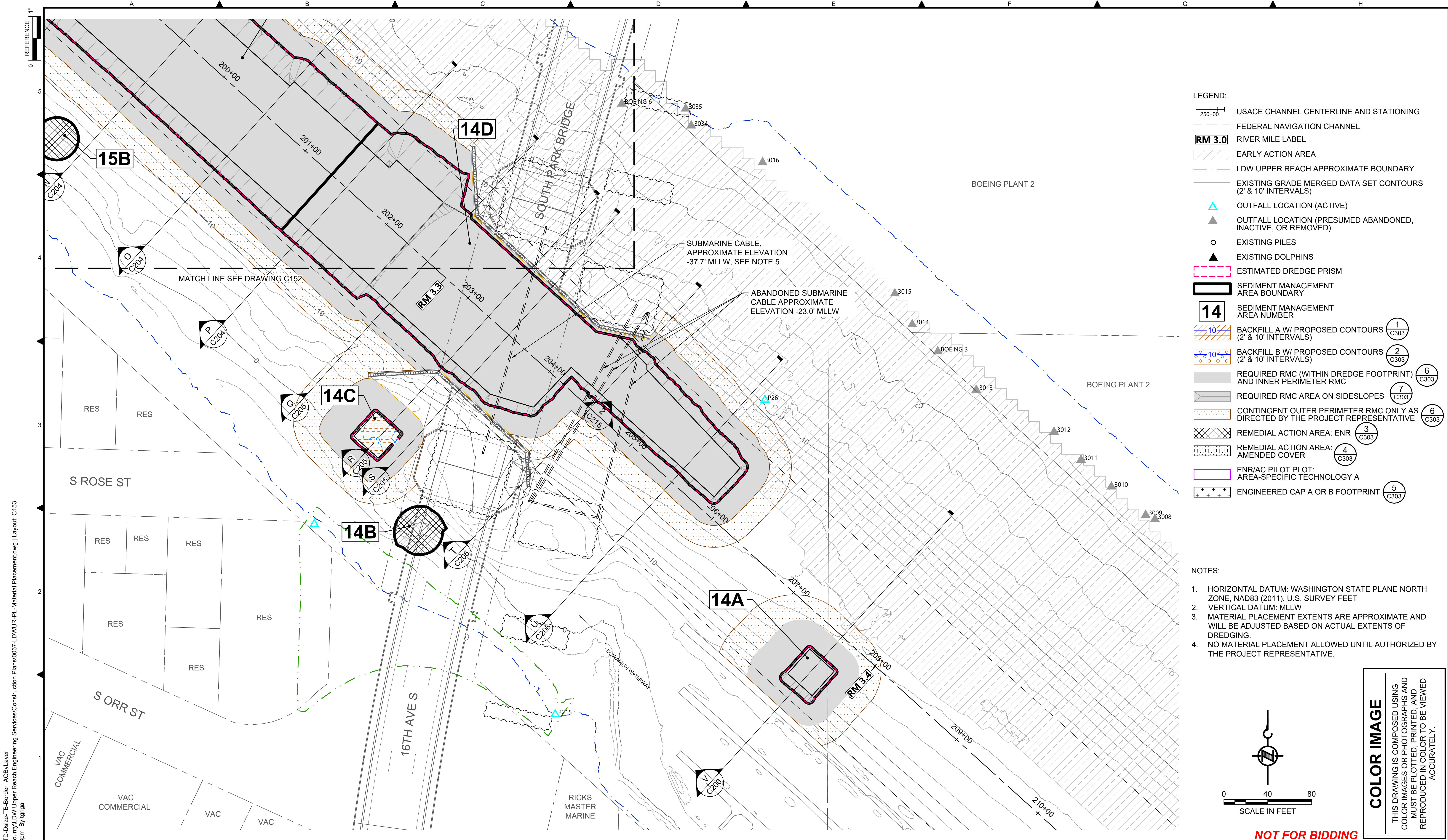


DESIGNED/DRAWN: K. GROSS	CHECKED: BIGSBY/GRIGA
PROJECT ENGINEER: J. LAPLANTE	SCALE: AS NOTED
DESIGN APPROVAL: T. WANG	PROJECT FILE NO: E00559E18
PROJECT ACCEPTANCE: PRJCT MNGR	CONTRACT NO: C0XXXXCX



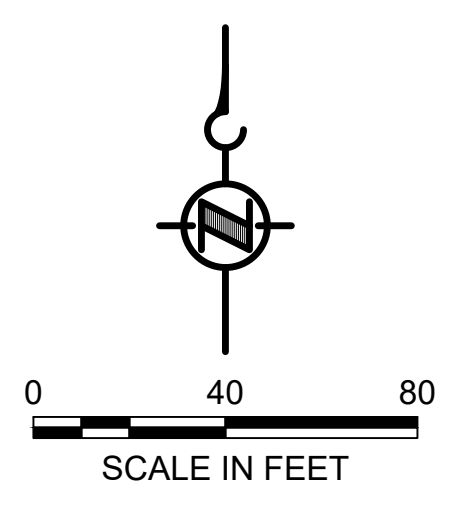
DEPARTMENT OF NATURAL RESOURCES & PARKS
 WASTEWATER TREATMENT DIVISION
 LOWER DUWAMISH WATERWAY UPPER REACH
 SEDIMENT CLEANUP
MATERIAL PLACEMENT PLAN
 (RM 3.09 TO 3.29)

DATE: JULY 2023
DRAWING NO: C152
SHT NO / TOTAL 43 / 87
REV NO: 0



- LEGEND:**
- USACE CHANNEL CENTERLINE AND STATIONING
 - FEDERAL NAVIGATION CHANNEL
 - RIVER MILE LABEL
 - EARLY ACTION AREA
 - LDW UPPER REACH APPROXIMATE BOUNDARY
 - EXISTING GRADE MERGED DATA SET CONTOURS (2' & 10' INTERVALS)
 - OUTFALL LOCATION (ACTIVE)
 - OUTFALL LOCATION (PRESUMED ABANDONED, INACTIVE, OR REMOVED)
 - EXISTING PILES
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 - ESTIMATED DREDGE PRISM
 - SEDIMENT MANAGEMENT AREA BOUNDARY
 - SEDIMENT MANAGEMENT AREA NUMBER
 - BACKFILL A W/ PROPOSED CONTOURS (2' & 10' INTERVALS)
 - BACKFILL B W/ PROPOSED CONTOURS (2' & 10' INTERVALS)
 - REQUIRED RMC (WITHIN DREDGE FOOTPRINT) AND INNER PERIMETER RMC
 - REQUIRED RMC AREA ON SIDESLOPES
 - CONTINGENT OUTER PERIMETER RMC ONLY AS DIRECTED BY THE PROJECT REPRESENTATIVE
 - REMEDIAL ACTION AREA: ENR
 - REMEDIAL ACTION AREA: AMENDED COVER
 - ENR/AC PILOT PLOT: AREA-SPECIFIC TECHNOLOGY A
 - ENGINEERED CAP A OR B FOOTPRINT

- NOTES:**
1. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83 (2011), U.S. SURVEY FEET
 2. VERTICAL DATUM: MLLW
 3. MATERIAL PLACEMENT EXTENTS ARE APPROXIMATE AND WILL BE ADJUSTED BASED ON ACTUAL EXTENTS OF DREDGING.
 4. NO MATERIAL PLACEMENT ALLOWED UNTIL AUTHORIZED BY THE PROJECT REPRESENTATIVE.



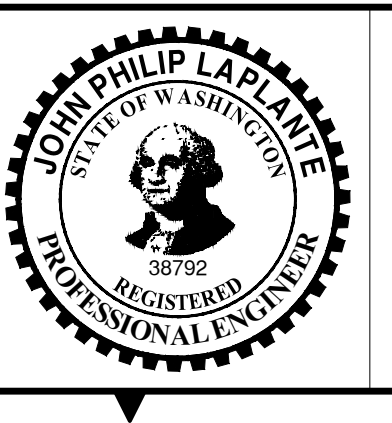
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 PLOTTED: Jul 21, 2023 - 11:42:23pm By: tgriga

NO	REVISION DESCRIPTION	BY	APVD	DATE

Lower Duwamish Waterway Group
 Port of Seattle / City of Seattle / King County / The Boeing Company

PRE-FINAL ISSUE DRAWING
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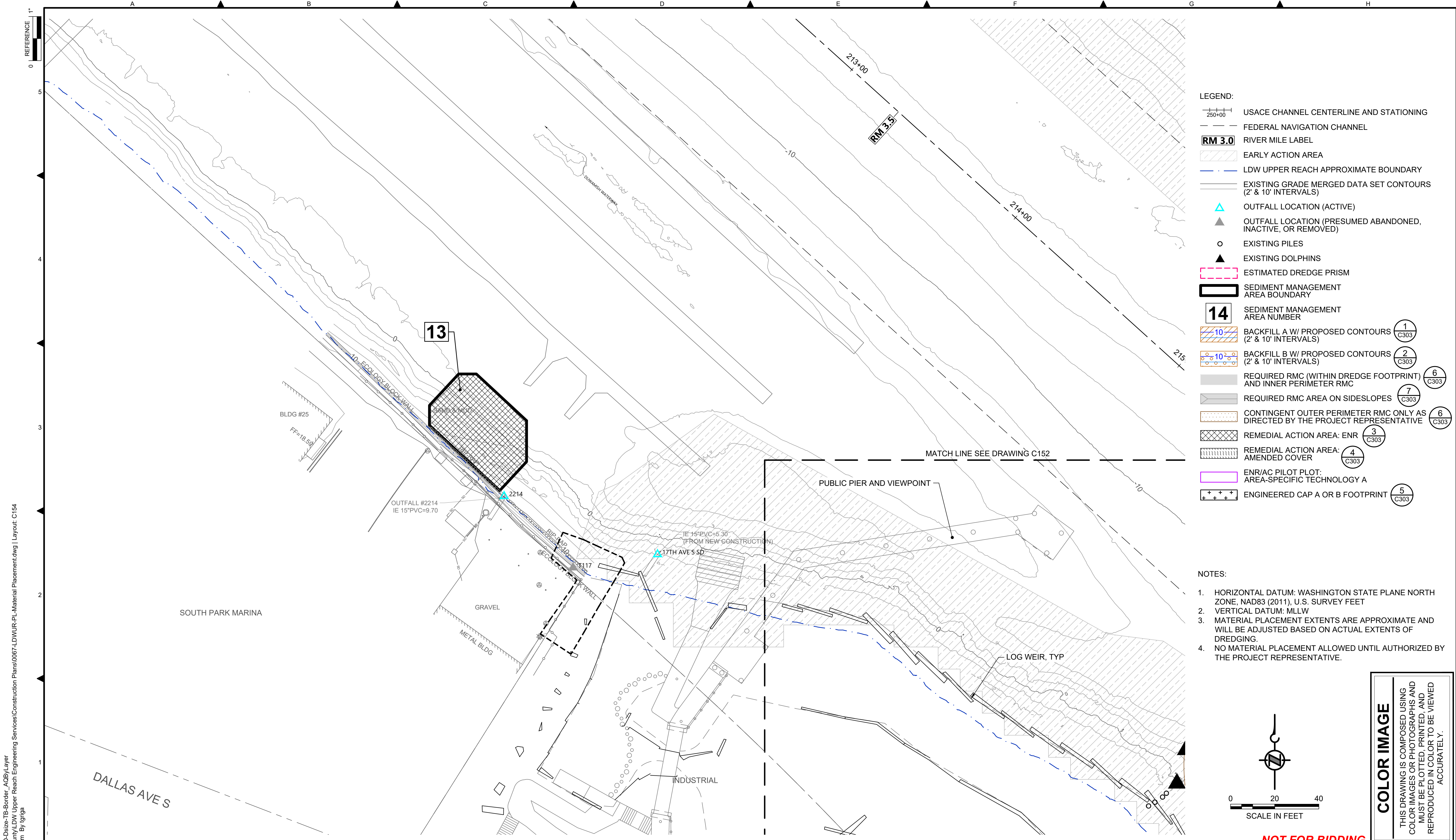
DESIGNED/DRAWN: K. GROSS	CHECKED: BIGSBY/GRIGA
PROJECT ENGINEER: J. LAPLANTE	SCALE: AS NOTED
DESIGN APPROVAL: T. WANG	PROJECT FILE NO: E00559E18
PROJECT ACCEPTANCE: PRJCT MNGR	CONTRACT NO: C0XXXXCX



DEPARTMENT OF NATURAL RESOURCES & PARKS
 WASTEWATER TREATMENT DIVISION
 LOWER DUWAMISH WATERWAY UPPER REACH
 SEDIMENT CLEANUP
MATERIAL PLACEMENT PLAN
 (RM 3.23 TO 3.44)

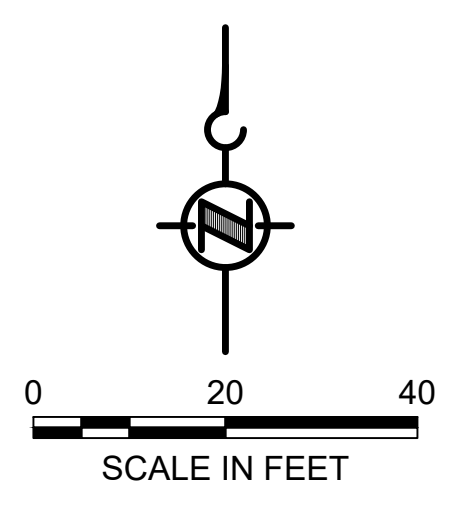
DATE:	JULY 2023
DRAWING NO:	C153
SHT NO / TOTAL	44 / 87
REV NO:	0

NOT FOR BIDDING



- LEGEND:**
- USACE CHANNEL CENTERLINE AND STATIONING
 - FEDERAL NAVIGATION CHANNEL
 - RIVER MILE LABEL
 - EARLY ACTION AREA
 - LDW UPPER REACH APPROXIMATE BOUNDARY
 - EXISTING GRADE MERGED DATA SET CONTOURS (2' & 10' INTERVALS)
 - OUTFALL LOCATION (ACTIVE)
 - OUTFALL LOCATION (PRESUMED ABANDONED, INACTIVE, OR REMOVED)
 - EXISTING PILES
 - EXISTING DOLPHINS
 - ESTIMATED DREDGE PRISM
 - SEDIMENT MANAGEMENT AREA BOUNDARY
 - SEDIMENT MANAGEMENT AREA NUMBER
 - BACKFILL A W/ PROPOSED CONTOURS (2' & 10' INTERVALS)
 - BACKFILL B W/ PROPOSED CONTOURS (2' & 10' INTERVALS)
 - REQUIRED RMC (WITHIN DREDGE FOOTPRINT) AND INNER PERIMETER RMC
 - REQUIRED RMC AREA ON SIDESLOPES
 - CONTINGENT OUTER PERIMETER RMC ONLY AS DIRECTED BY THE PROJECT REPRESENTATIVE
 - REMEDIAL ACTION AREA: ENR
 - REMEDIAL ACTION AREA: AMENDED COVER
 - ENR/AC PILOT PLOT: AREA-SPECIFIC TECHNOLOGY A
 - ENGINEERED CAP A OR B FOOTPRINT

- NOTES:**
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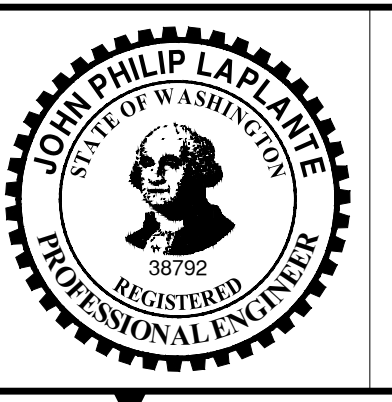
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 PLOTTED: Jul 21, 2023 - 11:43:08pm By: tgriga

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PROJECT ENGINEER: J. LAPLANTE	SCALE: AS NOTED
DESIGN APPROVAL: T. WANG	PROJECT FILE NO: E00559E18
PROJECT ACCEPTANCE: PRJCT MNGR	CONTRACT NO: C0XXXXCX

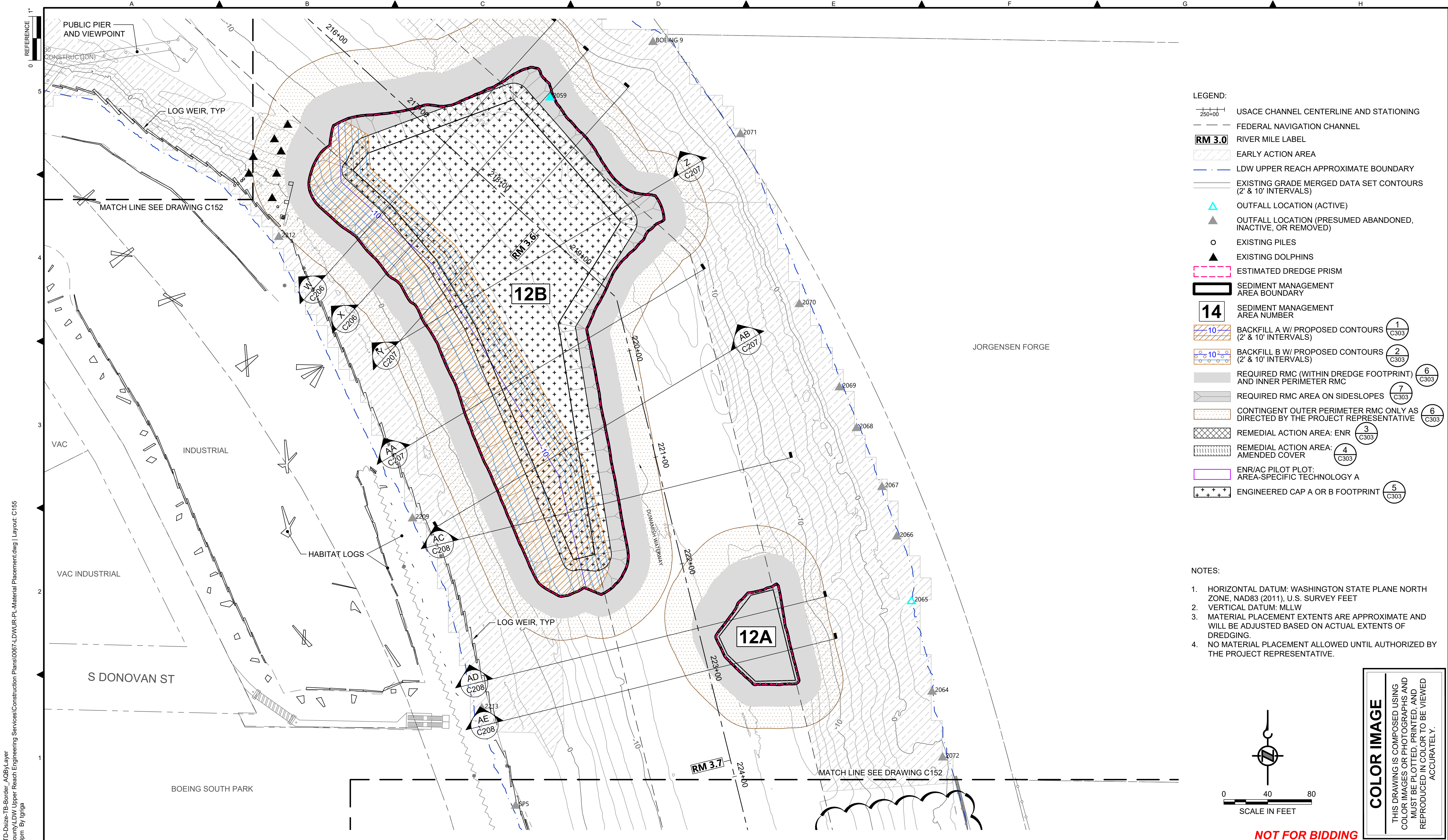


DEPARTMENT OF NATURAL RESOURCES & PARKS
 WASTEWATER TREATMENT DIVISION
 LOWER DUWAMISH WATERWAY UPPER REACH
 SEDIMENT CLEANUP

MATERIAL PLACEMENT PLAN
(RM 3.49 TO 3.56)

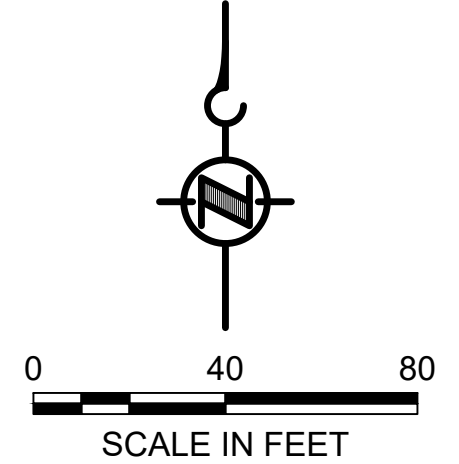
DATE:	JULY 2023
DRAWING NO:	C154
SHT NO / TOTAL	45 / 87
REV NO:	0

NOT FOR BIDDING



- LEGEND:**
- USACE CHANNEL CENTERLINE AND STATIONING
 - FEDERAL NAVIGATION CHANNEL
 - RIVER MILE LABEL
 - EARLY ACTION AREA
 - LDW UPPER REACH APPROXIMATE BOUNDARY
 - EXISTING GRADE MERGED DATA SET CONTOURS (2' & 10' INTERVALS)
 - OUTFALL LOCATION (ACTIVE)
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 - REMEDIAL ACTION AREA: ENR
 - REMEDIAL ACTION AREA: AMENDED COVER
 - ENR/AC PILOT PLOT: AREA-SPECIFIC TECHNOLOGY A
 - ENGINEERED CAP A OR B FOOTPRINT

- NOTES:**
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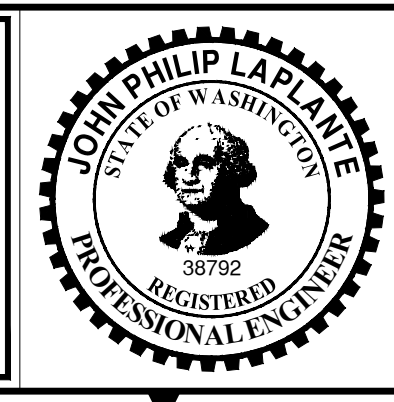
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 PLOTTED: Jul 21, 2023 - 11:43:53pm By: tgriga

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Lower Duwamish Waterway Group
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PROJECT ENGINEER: J. LAPLANTE	SCALE: AS NOTED
DESIGN APPROVAL: T. WANG	PROJECT FILE NO: E00559E18
PROJECT ACCEPTANCE: PRJCT MNGR	CONTRACT NO: C0XXXXCXX

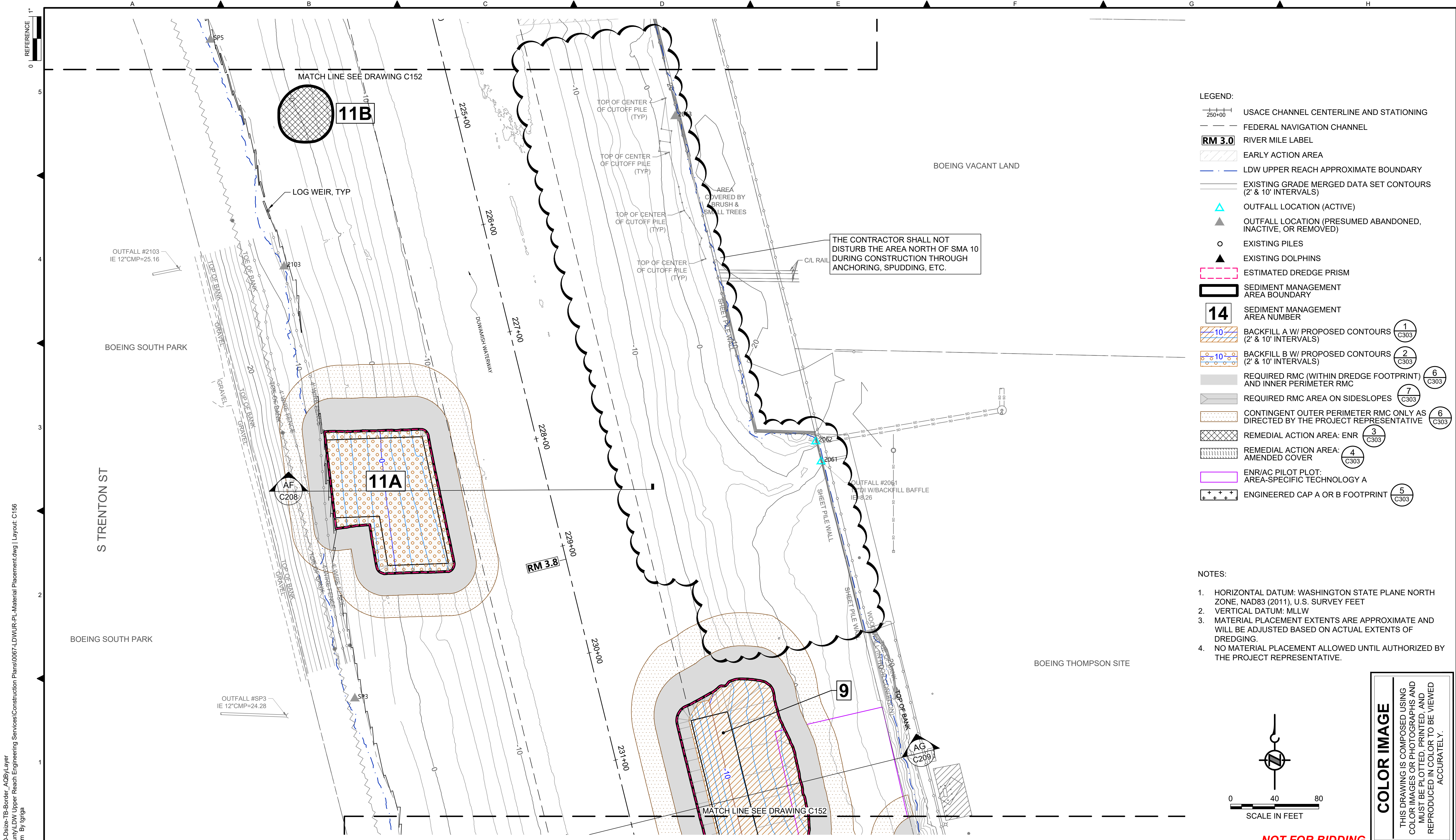


DEPARTMENT OF NATURAL RESOURCES & PARKS
 WASTEWATER TREATMENT DIVISION
 LOWER DUWAMISH WATERWAY UPPER REACH
 SEDIMENT CLEANUP

MATERIAL PLACEMENT PLAN
 (RM 3.54 TO 3.71)

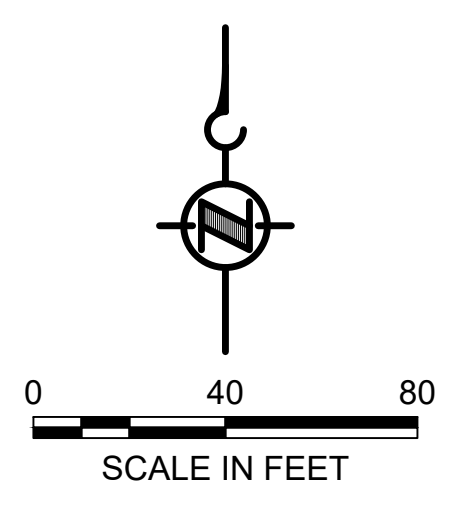
DATE: JULY 2023
DRAWING NO: C155
SHT NO / TOTAL 46 / 87
REV NO: 0

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- LEGEND:**
- USACE CHANNEL CENTERLINE AND STATIONING
 - FEDERAL NAVIGATION CHANNEL
 - RIVER MILE LABEL
 - EARLY ACTION AREA
 - LDW UPPER REACH APPROXIMATE BOUNDARY
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 - REMEDIAL ACTION AREA: ENR
 - REMEDIAL ACTION AREA: AMENDED COVER
 - ENR/AC PILOT PLOT: AREA-SPECIFIC TECHNOLOGY A
 - ENGINEERED CAP A OR B FOOTPRINT

- NOTES:**
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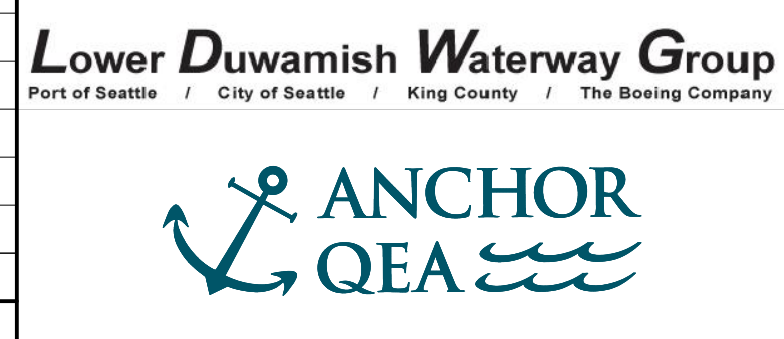


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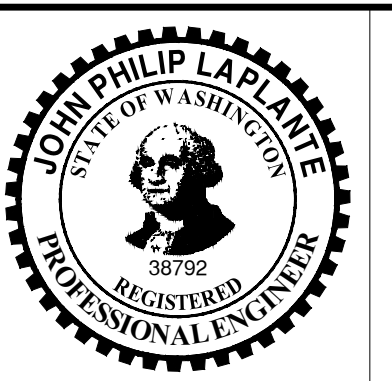
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 PLOTTED: Jul 21, 2023 - 11:44:39pm By: tgriga

NO	REVISION DESCRIPTION	BY	APVD	DATE



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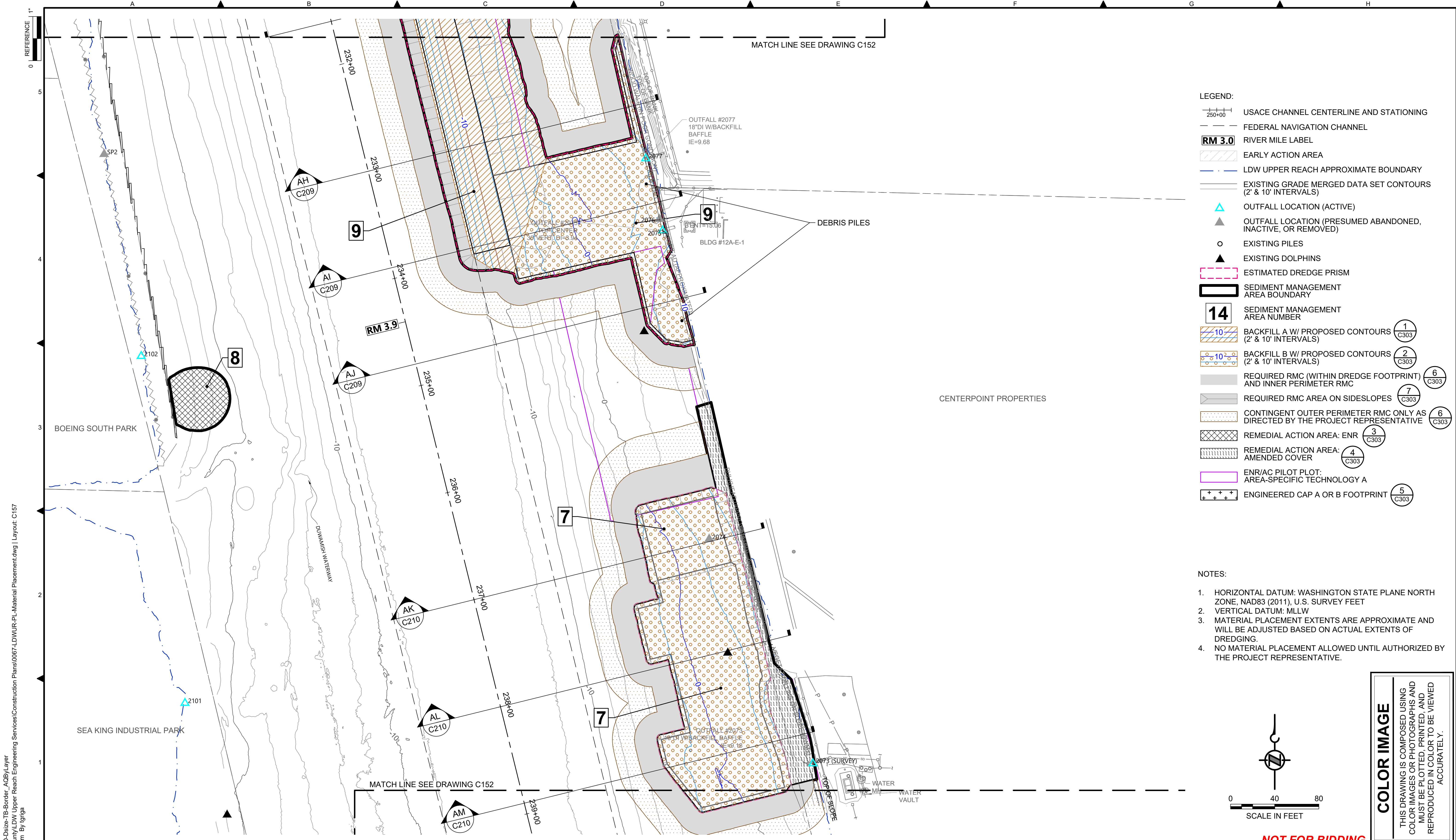


DESIGNED/DRAWN: K. GROSS	CHECKED: BIGSBY/GRIGA
PROJECT ENGINEER: J. LAPLANTE	SCALE: AS NOTED
DESIGN APPROVAL: T. WANG	PROJECT FILE NO: E00559E18
PROJECT ACCEPTANCE: PRJCT MNGR	CONTRACT NO: C0XXXXCXX



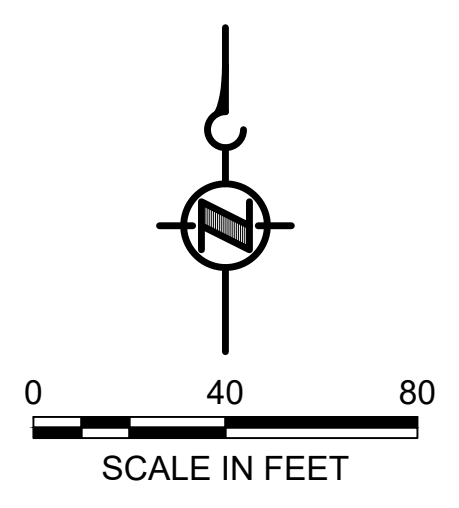
DEPARTMENT OF NATURAL RESOURCES & PARKS
 WASTEWATER TREATMENT DIVISION
 LOWER DUWAMISH WATERWAY UPPER REACH
 SEDIMENT CLEANUP
MATERIAL PLACEMENT PLAN
 (RM 3.73 TO 3.84)

DATE: JULY 2023
DRAWING NO: C156
SHT NO / TOTAL 47 / 87
REV NO: 0



- LEGEND:**
- USACE CHANNEL CENTERLINE AND STATIONING
 - FEDERAL NAVIGATION CHANNEL
 - RIVER MILE LABEL
 - EARLY ACTION AREA
 - LDW UPPER REACH APPROXIMATE BOUNDARY
 - EXISTING GRADE MERGED DATA SET CONTOURS (2' & 10' INTERVALS)
 - OUTFALL LOCATION (ACTIVE)
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 - ESTIMATED DREDGE PRISM
 - SEDIMENT MANAGEMENT AREA BOUNDARY
 - SEDIMENT MANAGEMENT AREA NUMBER
 - BACKFILL A W/ PROPOSED CONTOURS (2' & 10' INTERVALS) (1) C303
 - BACKFILL B W/ PROPOSED CONTOURS (2' & 10' INTERVALS) (2) C303
 - REQUIRED RMC (WITHIN DREDGE FOOTPRINT) AND INNER PERIMETER RMC (6) C303
 - REQUIRED RMC AREA ON SIDESLOPES (7) C303
 - CONTINGENT OUTER PERIMETER RMC ONLY AS DIRECTED BY THE PROJECT REPRESENTATIVE (6) C303
 - REMEDIAL ACTION AREA: ENR (3) C303
 - REMEDIAL ACTION AREA: AMENDED COVER (4) C303
 - ENR/AC PILOT PLOT: AREA-SPECIFIC TECHNOLOGY A
 - ENGINEERED CAP A OR B FOOTPRINT (5) C303

- NOTES:**
1. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83 (2011), U.S. SURVEY FEET
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 4. NO MATERIAL PLACEMENT ALLOWED UNTIL AUTHORIZED BY THE PROJECT REPRESENTATIVE.



COLOR IMAGE
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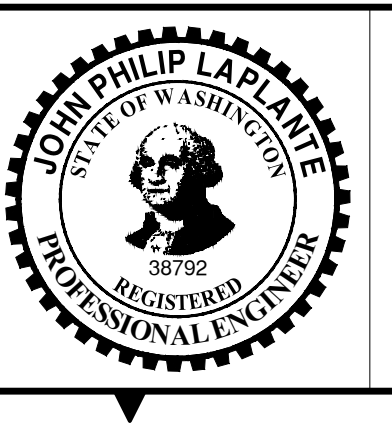
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NO	REVISION DESCRIPTION	BY	APVD	DATE

Lower Duwamish Waterway Group
Port of Seattle / City of Seattle / King County / The Boeing Company

PRE-FINAL ISSUE DRAWING
INFORMATION ONLY
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JULY 2023



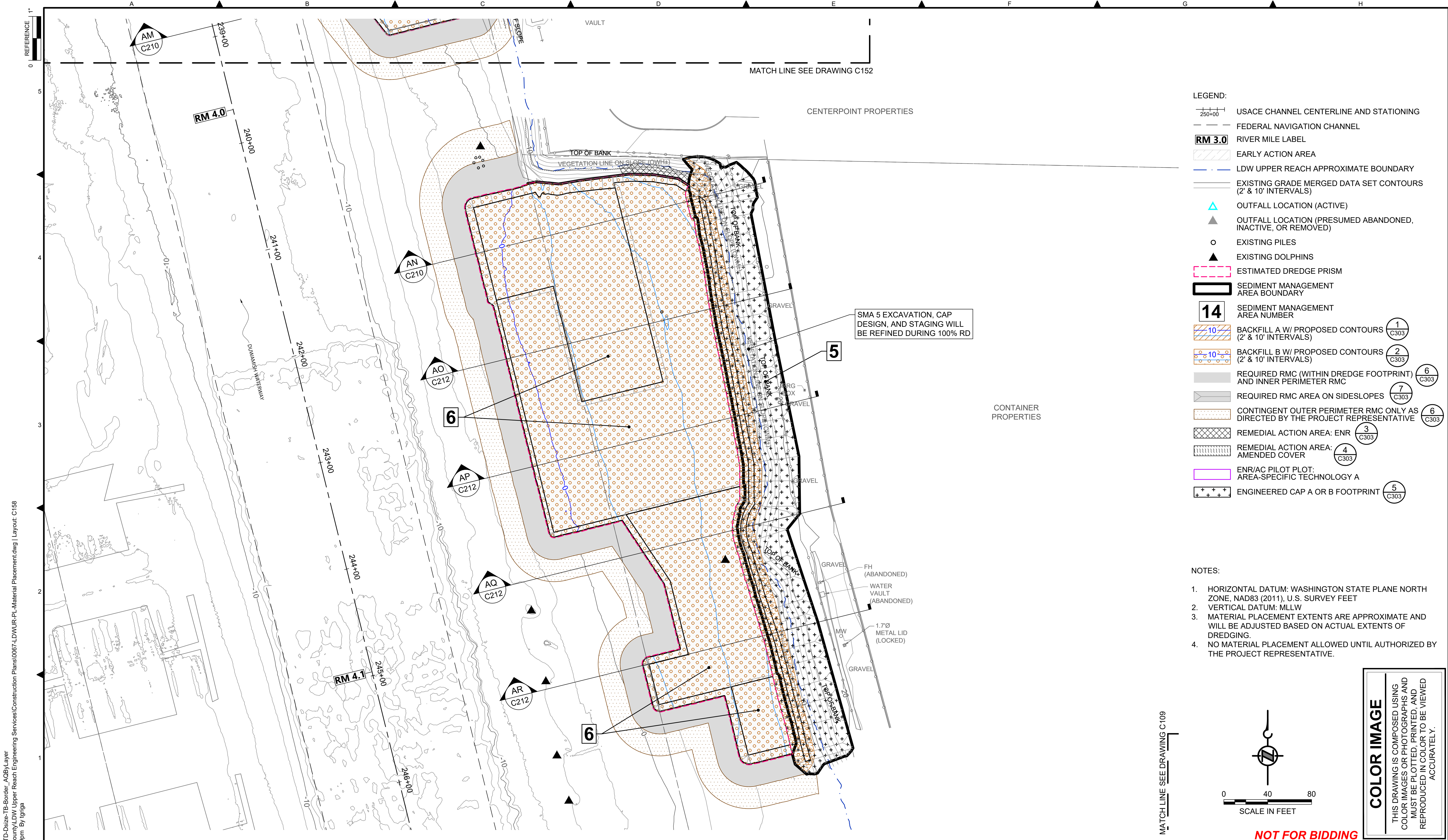
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PROJECT ENGINEER: J. LAPLANTE	SCALE: AS NOTED
DESIGN APPROVAL: T. WANG	PROJECT FILE NO: E00559E18
PROJECT ACCEPTANCE: PRJCT MNGR	CONTRACT NO: C0XXXXCX



DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
LOWER DUWAMISH WATERWAY UPPER REACH
SEDIMENT CLEANUP

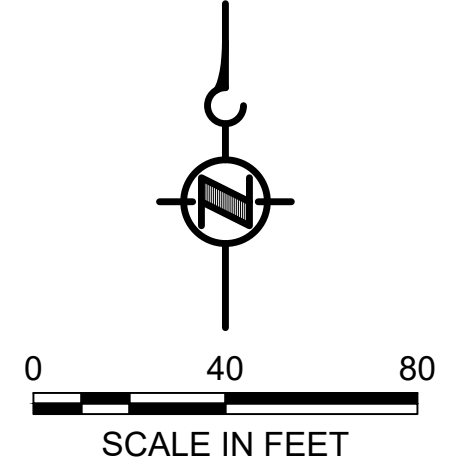
MATERIAL PLACEMENT PLAN
(RM 3.85 TO 3.99)

DATE: JULY 2023
DRAWING NO: C157
SHT NO / TOTAL 48 / 87
REV NO: 0



- LEGEND:**
- USACE CHANNEL CENTERLINE AND STATIONING
 - FEDERAL NAVIGATION CHANNEL
 - RIVER MILE LABEL
 - EARLY ACTION AREA
 - LDW UPPER REACH APPROXIMATE BOUNDARY
 - EXISTING GRADE MERGED DATA SET CONTOURS (2' & 10' INTERVALS)
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 - REQUIRED RMC AREA ON SIDESLOPES
 - CONTINGENT OUTER PERIMETER RMC ONLY AS DIRECTED BY THE PROJECT REPRESENTATIVE
 - REMEDIAL ACTION AREA: ENR AMENDED COVER
 - REMEDIAL ACTION AREA: ENR/AC PILOT PLOT: AREA-SPECIFIC TECHNOLOGY A
 - ENGINEERED CAP A OR B FOOTPRINT

- NOTES:**
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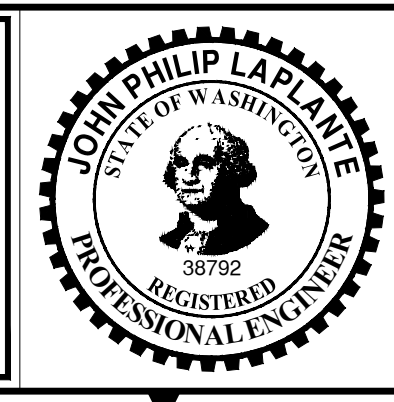
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 PLOTTED: Jul 21, 2023 - 11:46:09pm By: tgriga

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Lower Duwamish Waterway Group
 Port of Seattle / City of Seattle / King County / The Boeing Company

PRE-FINAL ISSUE DRAWING
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DESIGNED/DRAWN: K. GROSS	CHECKED: BIGSBY/GRIGA
PROJECT ENGINEER: J. LAPLANTE	SCALE: AS NOTED
DESIGN APPROVAL: T. WANG	PROJECT FILE NO: E00559E18
PROJECT ACCEPTANCE: PRJCT MNGR	CONTRACT NO: C0XXXXCX

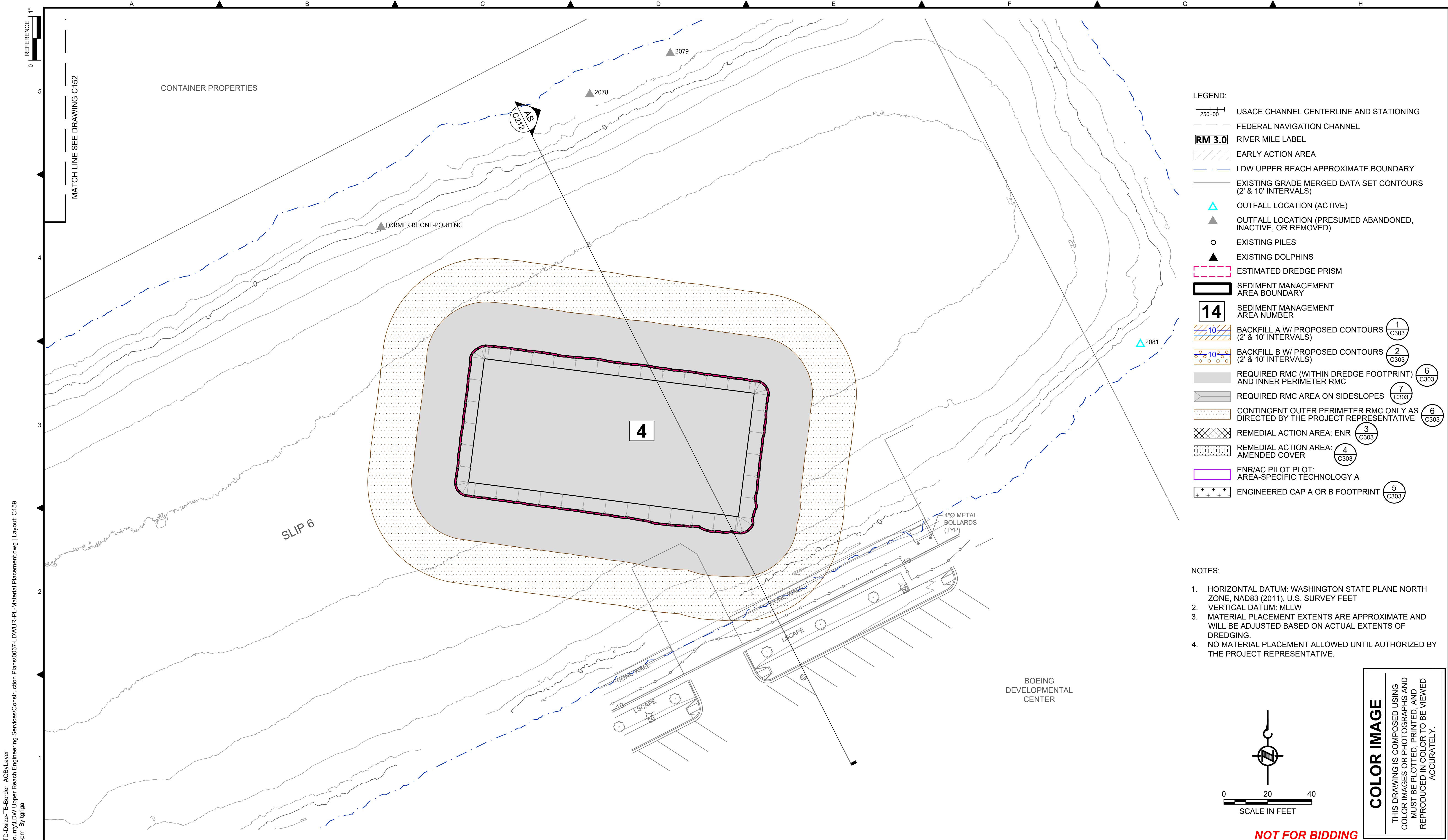


DEPARTMENT OF NATURAL RESOURCES & PARKS
 WASTEWATER TREATMENT DIVISION
 LOWER DUWAMISH WATERWAY UPPER REACH
 SEDIMENT CLEANUP

MATERIAL PLACEMENT PLAN
 (RM 3.98 TO 4.13)

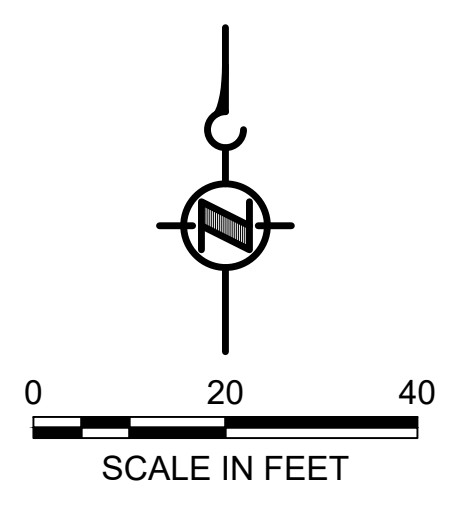
DATE: JULY 2023
DRAWING NO: C158
SHT NO / TOTAL 49 / 87
REV NO: 0

NOT FOR BIDDING



- LEGEND:**
- USACE CHANNEL CENTERLINE AND STATIONING
 - FEDERAL NAVIGATION CHANNEL
 - RIVER MILE LABEL
 - EARLY ACTION AREA
 - LDW UPPER REACH APPROXIMATE BOUNDARY
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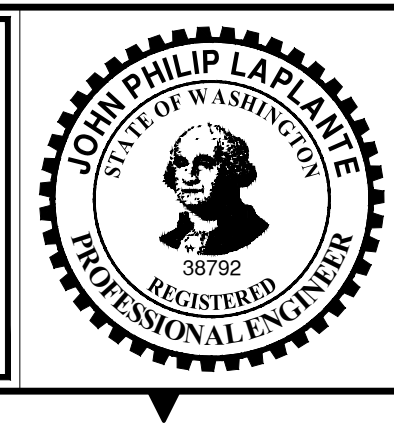
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BORDER FILE EDITION: x:\KOVTD\size-TB-Border_AQB\layer
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 PLOTTED: Jul 21, 2023 - 11:46:54pm By: tgriga

NO	REVISION DESCRIPTION	BY	APVD	DATE

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PRE-FINAL ISSUE DRAWING
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 JULY 2023



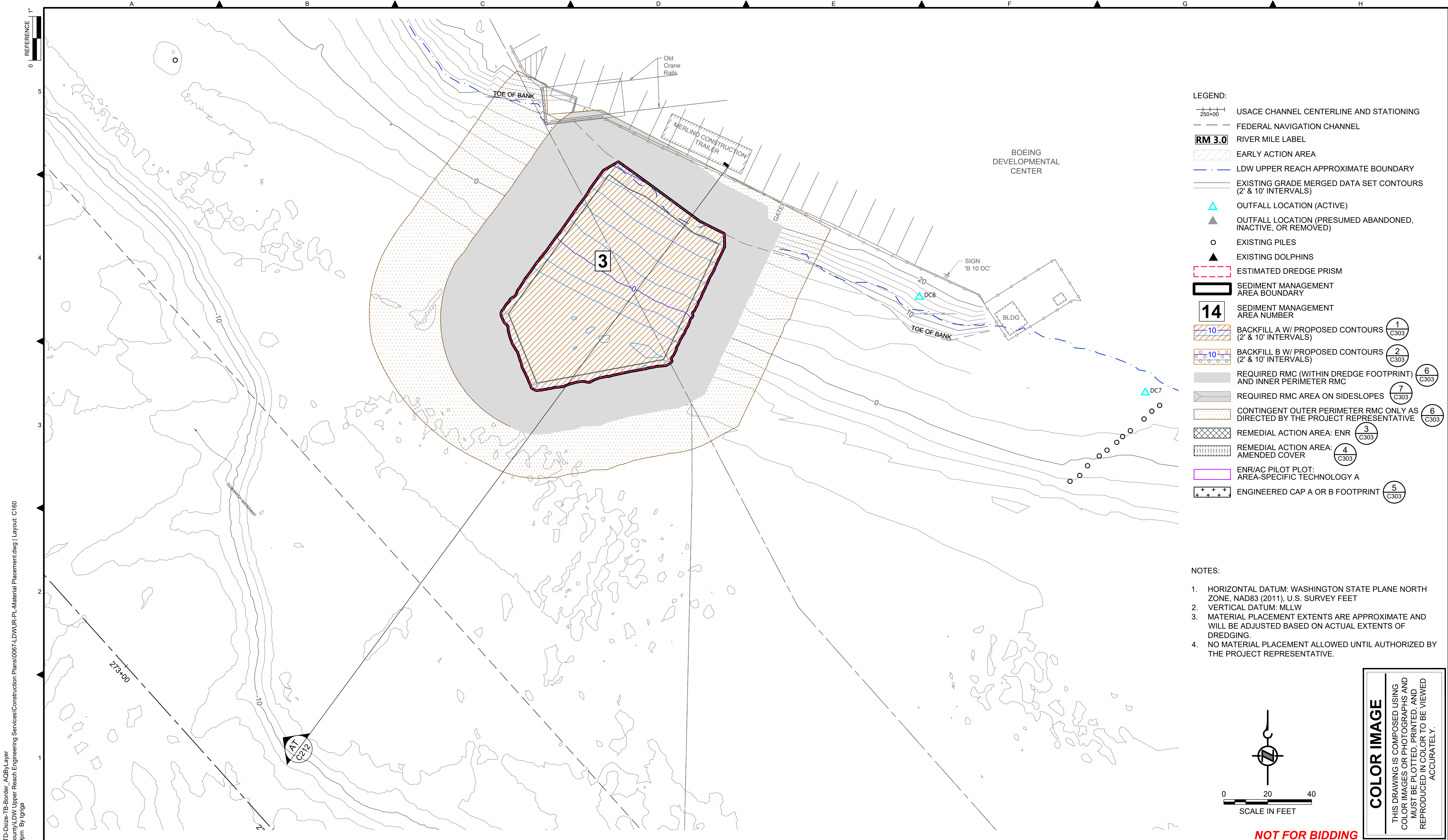
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PROJECT ENGINEER: J. LAPLANTE	SCALE: AS NOTED
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DEPARTMENT OF NATURAL RESOURCES & PARKS
 WASTEWATER TREATMENT DIVISION
 LOWER DUWAMISH WATERWAY UPPER REACH
 SEDIMENT CLEANUP

MATERIAL PLACEMENT PLAN
(RM 4.14 TO 4.23)

DATE: JULY 2023
DRAWING NO: C159
SHT NO / TOTAL 50 / 87
REV NO: 0



- LEGEND:**
- USACE CHANNEL CENTERLINE AND STATIONING
 - FEDERAL NAVIGATION CHANNEL
 - RM 3.0** RIVER MILE LABEL
 - EARLY ACTION AREA
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 - EXISTING DOLPHINS
 - ESTIMATED DREDGE PRISM
 - SEDIMENT MANAGEMENT AREA BOUNDARY
 - 14** SEDIMENT MANAGEMENT AREA NUMBER
 - BACKFILL A W/ PROPOSED CONTOURS (2' & 10' INTERVALS) 1
C303
 - BACKFILL B W/ PROPOSED CONTOURS (2' & 10' INTERVALS) 2
C303
 - REQUIRED RMC (WITHIN DREDGE FOOTPRINT) AND INNER PERIMETER RMC 6
C303
 - REQUIRED RMC AREA ON SIDESLOPES 7
C303
 - CONTINGENT OUTER PERIMETER RMC ONLY AS DIRECTED BY THE PROJECT REPRESENTATIVE 6
C303
 - REMEDIAL ACTION AREA: ENR 3
C303
 - REMEDIAL ACTION AREA: AMENDED COVER 4
C303
 - ENR/AC PILOT PLOT: AREA-SPECIFIC TECHNOLOGY A
 - ENGINEERED CAP A OR B FOOTPRINT 5
C303

- NOTES:**
1. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83 (2011), U.S. SURVEY FEET
 2. VERTICAL DATUM: MLLW
 3. MATERIAL PLACEMENT EXTENTS ARE APPROXIMATE AND WILL BE ADJUSTED BASED ON ACTUAL EXTENTS OF DREDGING.
 4. NO MATERIAL PLACEMENT ALLOWED UNTIL AUTHORIZED BY THE PROJECT REPRESENTATIVE.

BORDER FILE EDITION: \\KOV\TD\size-TB-Border_ACB\Layer
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 PLOTTED: Jul 21, 2023 - 11:47:39pm By: tgriga

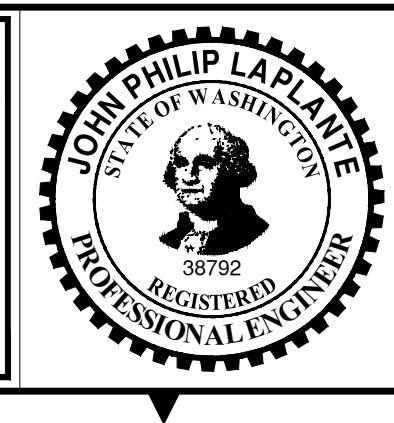
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NO	REVISION DESCRIPTION	BY	APVD	DATE

Lower Duwamish Waterway Group
 Port of Seattle / City of Seattle / King County / The Boeing Company

PRE-FINAL ISSUE DRAWING
 INFORMATION ONLY
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 JULY 2023

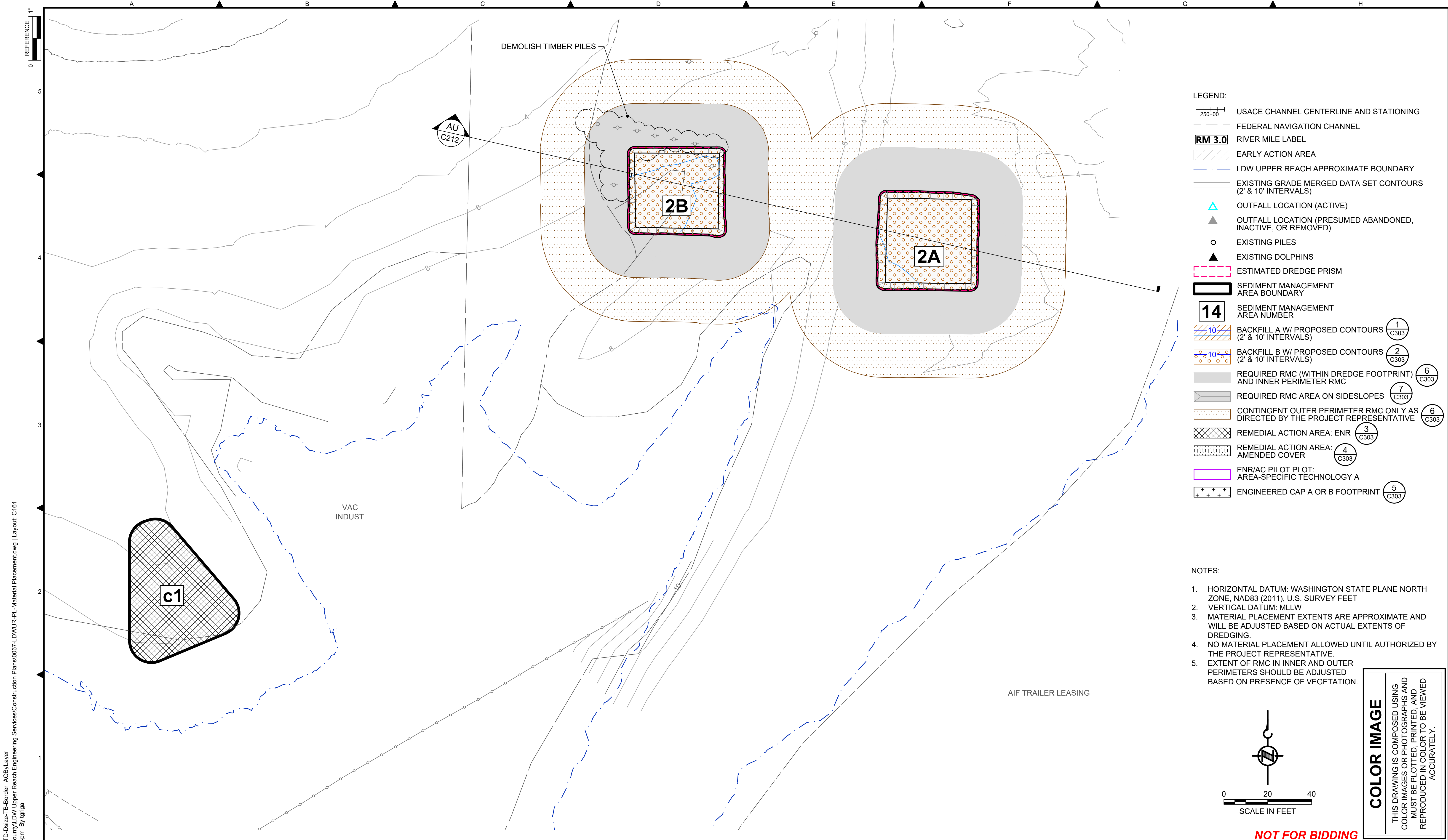


DESIGNED/DRAWN: K. GROSS	CHECKED: BIGSBY/GRIGA
PROJECT ENGINEER: J. LAPLANTE	SCALE: AS NOTED
DESIGN APPROVAL: T. WANG	PROJECT FILE NO: E00559E18
PROJECT ACCEPTANCE: PRJCT MNGR	CONTRACT NO: C0XXXXCX



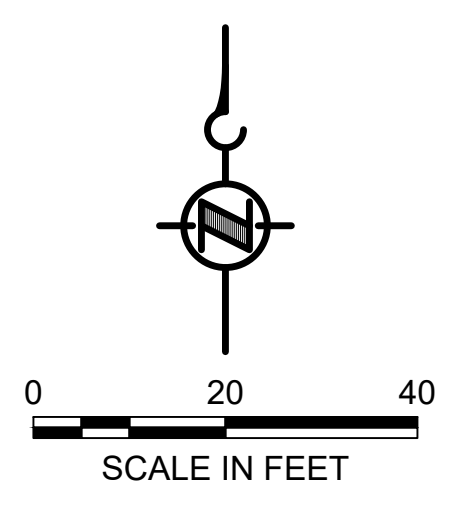
DEPARTMENT OF NATURAL RESOURCES & PARKS
 WASTEWATER TREATMENT DIVISION
 LOWER DUWAMISH WATERWAY UPPER REACH
 SEDIMENT CLEANUP
MATERIAL PLACEMENT PLAN
(RM 4.57 TO 4.66)

DATE:	JULY 2023
DRAWING NO:	C160
SHT NO / TOTAL	51 / 87
REV NO:	0



- LEGEND:**
- USACE CHANNEL CENTERLINE AND STATIONING
 - FEDERAL NAVIGATION CHANNEL
 - RIVER MILE LABEL
 - EARLY ACTION AREA
 - LDW UPPER REACH APPROXIMATE BOUNDARY
 - EXISTING GRADE MERGED DATA SET CONTOURS (2' & 10' INTERVALS)
 - OUTFALL LOCATION (ACTIVE)
 - OUTFALL LOCATION (PRESUMED ABANDONED, INACTIVE, OR REMOVED)
 - EXISTING PILES
 - EXISTING DOLPHINS
 - ESTIMATED DREDGE PRISM
 - SEDIMENT MANAGEMENT AREA BOUNDARY
 - SEDIMENT MANAGEMENT AREA NUMBER
 - BACKFILL A W/ PROPOSED CONTOURS (2' & 10' INTERVALS) ①
C303
 - BACKFILL B W/ PROPOSED CONTOURS (2' & 10' INTERVALS) ②
C303
 - REQUIRED RMC (WITHIN DREDGE FOOTPRINT) AND INNER PERIMETER RMC ⑥
C303
 - REQUIRED RMC AREA ON SIDESLOPES ⑦
C303
 - CONTINGENT OUTER PERIMETER RMC ONLY AS DIRECTED BY THE PROJECT REPRESENTATIVE ⑥
C303
 - REMEDIAL ACTION AREA: ENR AMENDED COVER ③
C303
 - REMEDIAL ACTION AREA: AMENDED COVER ④
C303
 - ENR/AC PILOT PLOT: AREA-SPECIFIC TECHNOLOGY A
 - ENGINEERED CAP A OR B FOOTPRINT ⑤
C303

- NOTES:**
1. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83 (2011), U.S. SURVEY FEET
 2. VERTICAL DATUM: MLLW
 3. MATERIAL PLACEMENT EXTENTS ARE APPROXIMATE AND WILL BE ADJUSTED BASED ON ACTUAL EXTENTS OF DREDGING.
 4. NO MATERIAL PLACEMENT ALLOWED UNTIL AUTHORIZED BY THE PROJECT REPRESENTATIVE.
 5. EXTENT OF RMC IN INNER AND OUTER PERIMETERS SHOULD BE ADJUSTED BASED ON PRESENCE OF VEGETATION.

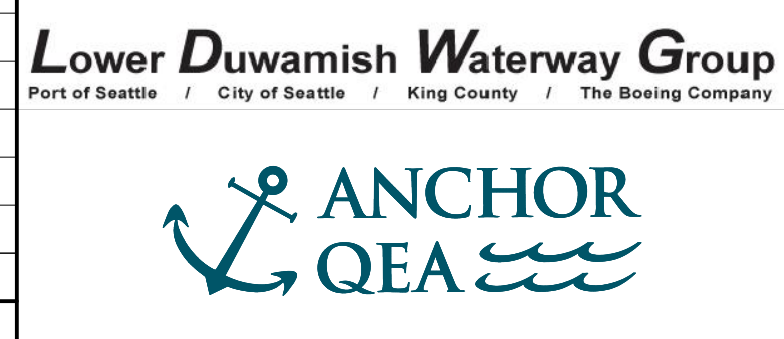


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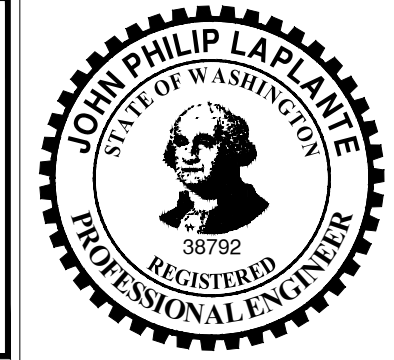
NOT FOR BIDDING

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 PLOTTED: Jul 21, 2023 - 11:48:24pm By: tgriga

NO	REVISION DESCRIPTION	BY	APVD	DATE



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DESIGNED/DRAWN: K. GROSS
 PROJECT ENGINEER: J. LAPLANTE
 DESIGN APPROVAL: T. WANG
 PROJECT ACCEPTANCE: PRJCT MNGR

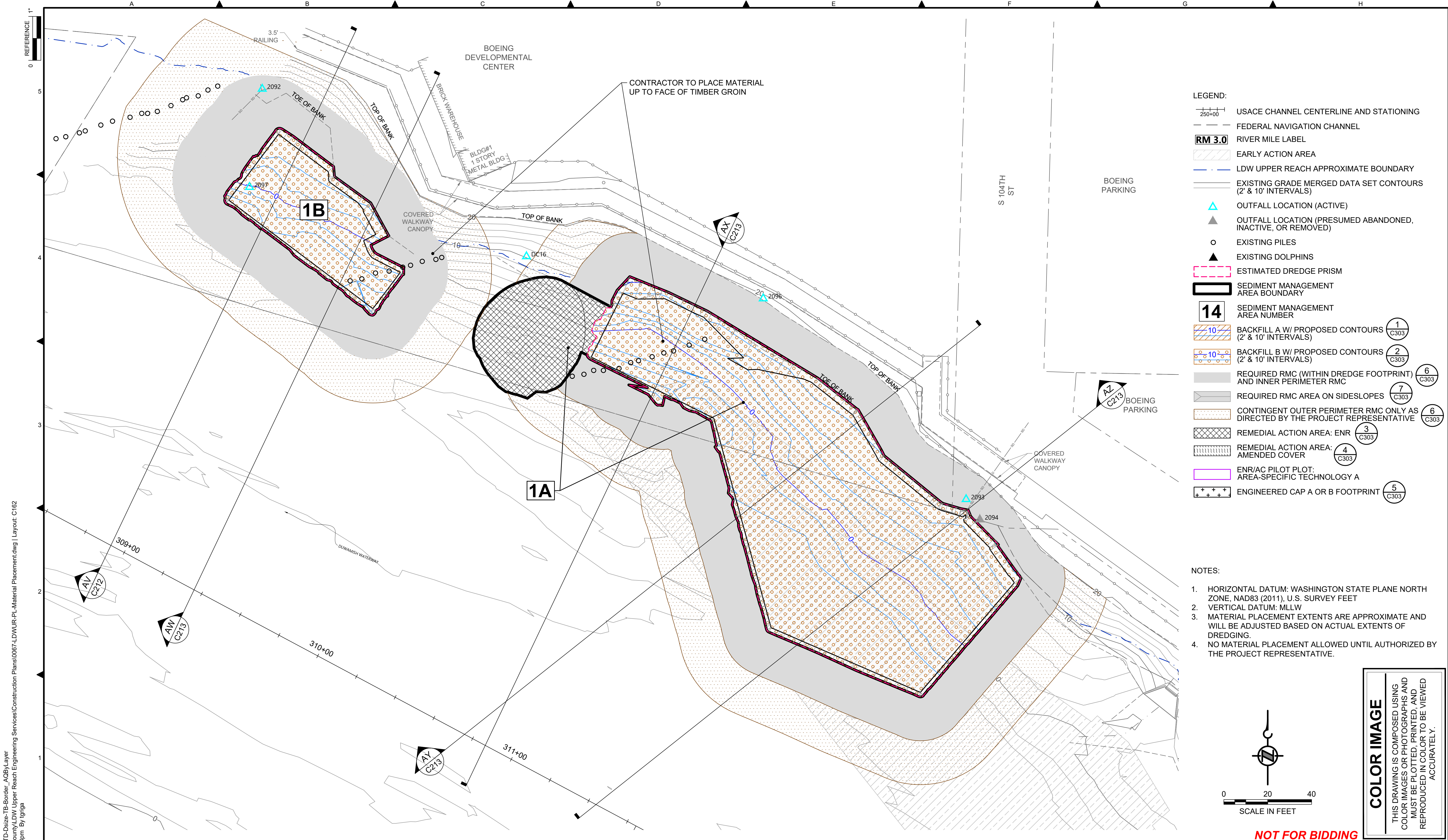
CHECKED: BIGSBY/GRIGA
 SCALE: AS NOTED
 PROJECT FILE NO: E00559E18
 CONTRACT NO: C0XXXXCX



DEPARTMENT OF NATURAL RESOURCES & PARKS
 WASTEWATER TREATMENT DIVISION
 LOWER DUWAMISH WATERWAY UPPER REACH
 SEDIMENT CLEANUP

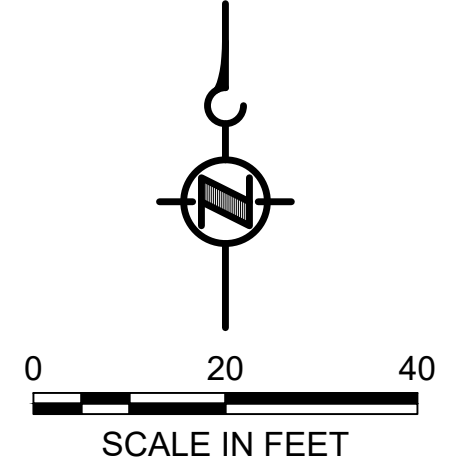
MATERIAL PLACEMENT PLAN
 (RM 4.64 TO 4.76)

DATE: JULY 2023
 DRAWING NO: **C161**
 SHT NO / TOTAL: 52 / 87
 REV NO: **0**



- LEGEND:**
- USACE CHANNEL CENTERLINE AND STATIONING
 - FEDERAL NAVIGATION CHANNEL
 - RIVER MILE LABEL
 - EARLY ACTION AREA
 - LDW UPPER REACH APPROXIMATE BOUNDARY
 - EXISTING GRADE MERGED DATA SET CONTOURS (2' & 10' INTERVALS)
 - OUTFALL LOCATION (ACTIVE)
 - OUTFALL LOCATION (PRESUMED ABANDONED, INACTIVE, OR REMOVED)
 - EXISTING PILES
 - EXISTING DOLPHINS
 - ESTIMATED DREDGE PRISM
 - SEDIMENT MANAGEMENT AREA BOUNDARY
 - SEDIMENT MANAGEMENT AREA NUMBER
 - BACKFILL A W/ PROPOSED CONTOURS (2' & 10' INTERVALS) 1 C303
 - BACKFILL B W/ PROPOSED CONTOURS (2' & 10' INTERVALS) 2 C303
 - REQUIRED RMC (WITHIN DREDGE FOOTPRINT) AND INNER PERIMETER RMC 6 C303
 - REQUIRED RMC AREA ON SIDESLOPES 7 C303
 - CONTINGENT OUTER PERIMETER RMC ONLY AS DIRECTED BY THE PROJECT REPRESENTATIVE 6 C303
 - REMEDIAL ACTION AREA: ENR 3 C303
 - REMEDIAL ACTION AREA: AMENDED COVER 4 C303
 - ENR/AC PILOT PLOT: AREA-SPECIFIC TECHNOLOGY A
 - ENGINEERED CAP A OR B FOOTPRINT 5 C303

- NOTES:**
1. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83 (2011), U.S. SURVEY FEET
 2. VERTICAL DATUM: MLLW
 3. MATERIAL PLACEMENT EXTENTS ARE APPROXIMATE AND WILL BE ADJUSTED BASED ON ACTUAL EXTENTS OF DREDGING.
 4. NO MATERIAL PLACEMENT ALLOWED UNTIL AUTHORIZED BY THE PROJECT REPRESENTATIVE.



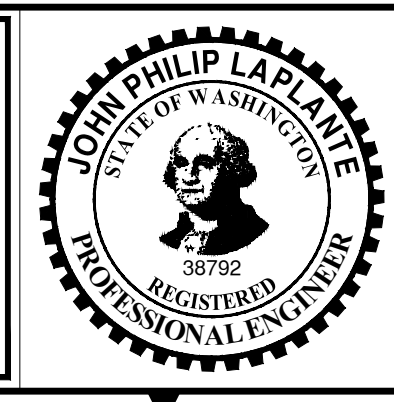
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PLOTTED: Jul 21, 2023 - 11:49:08pm By: tgriga

NO	REVISION DESCRIPTION	BY	APVD	DATE

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Port of Seattle / City of Seattle / King County / The Boeing Company

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PROJECT ENGINEER: J. LAPLANTE	SCALE: AS NOTED
DESIGN APPROVAL: T. WANG	PROJECT FILE NO: E00559E18
PROJECT ACCEPTANCE: PRJCT MNGR	CONTRACT NO: C0XXXXCX



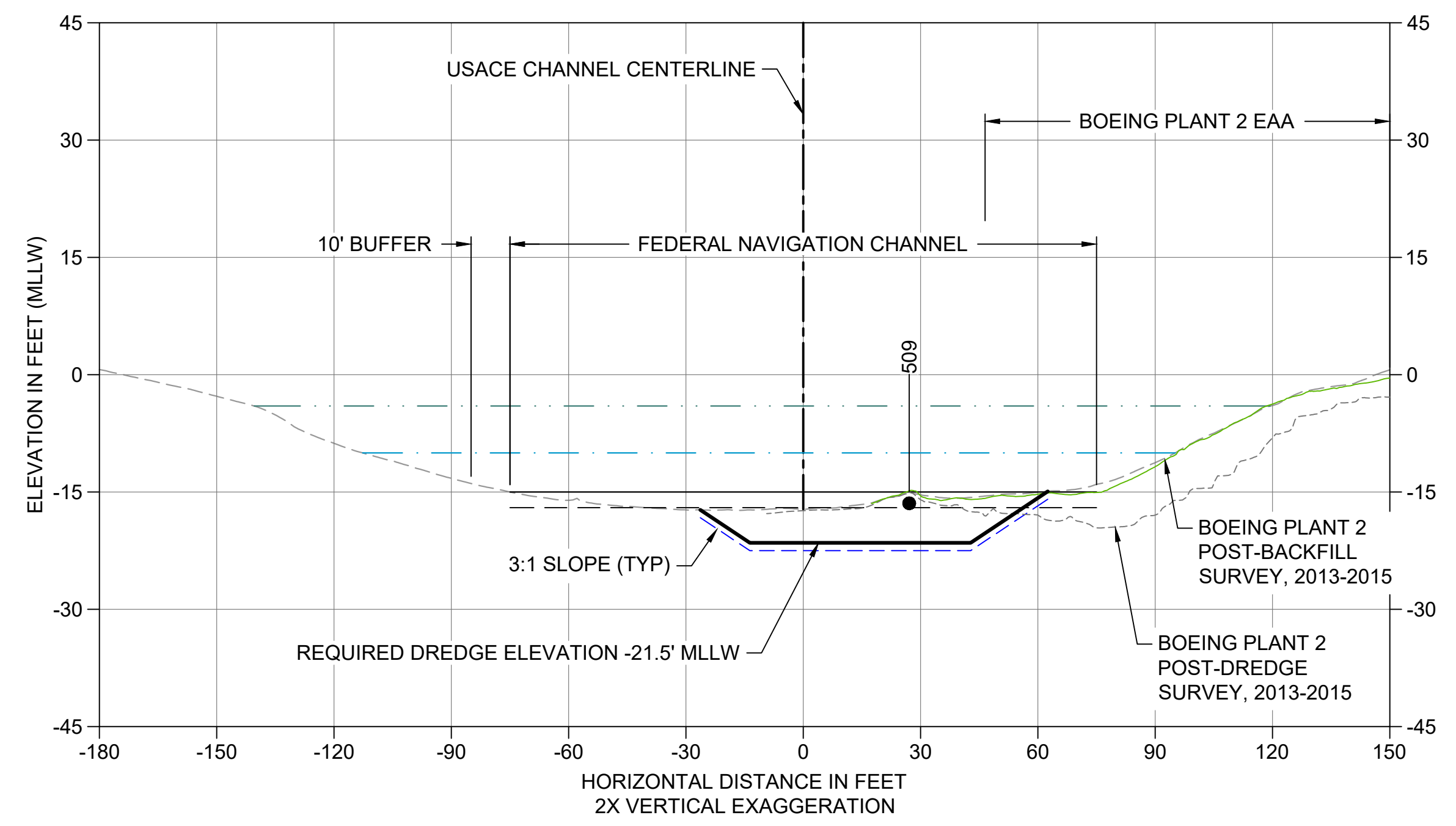
DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
LOWER DUWAMISH WATERWAY UPPER REACH
SEDIMENT CLEANUP

MATERIAL PLACEMENT PLAN
(RM 4.84 TO 4.95)

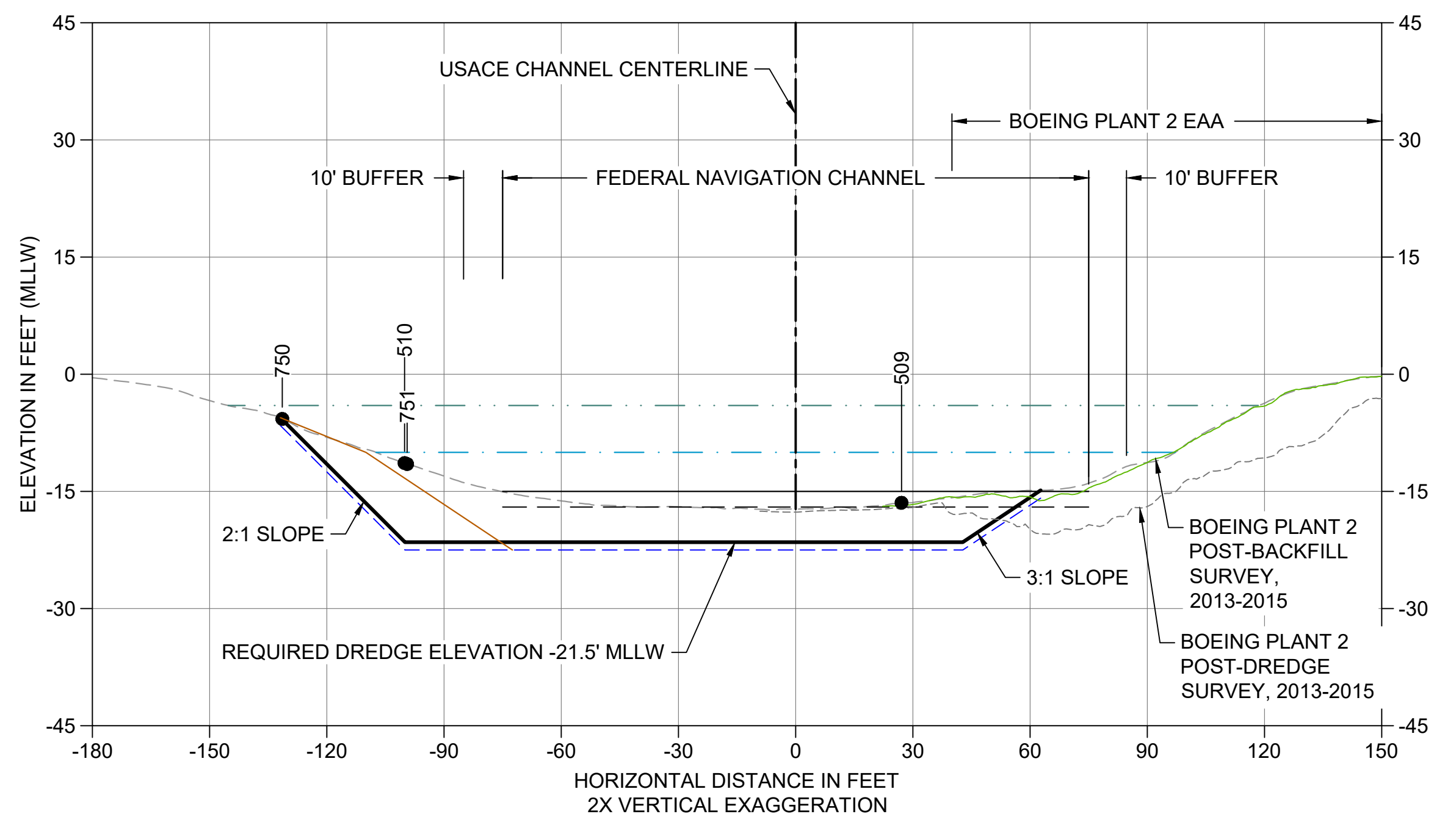
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DRAWING NO: C162
SHT NO / TOTAL 53 / 87
REV NO: 0

NOT FOR BIDDING

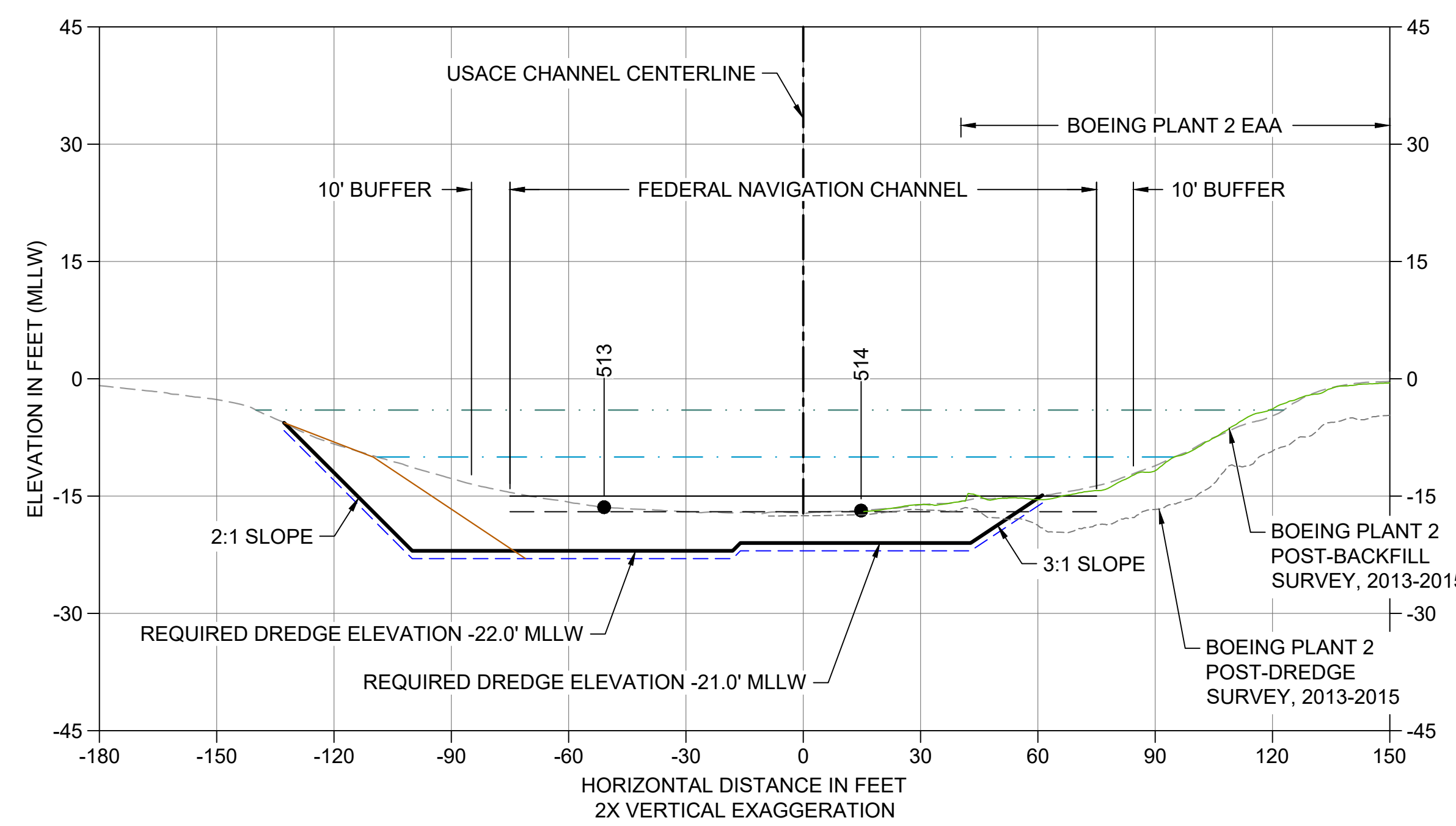
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 PLOTTED: Jul 21, 2023 - 11:50:48pm By: tgriga



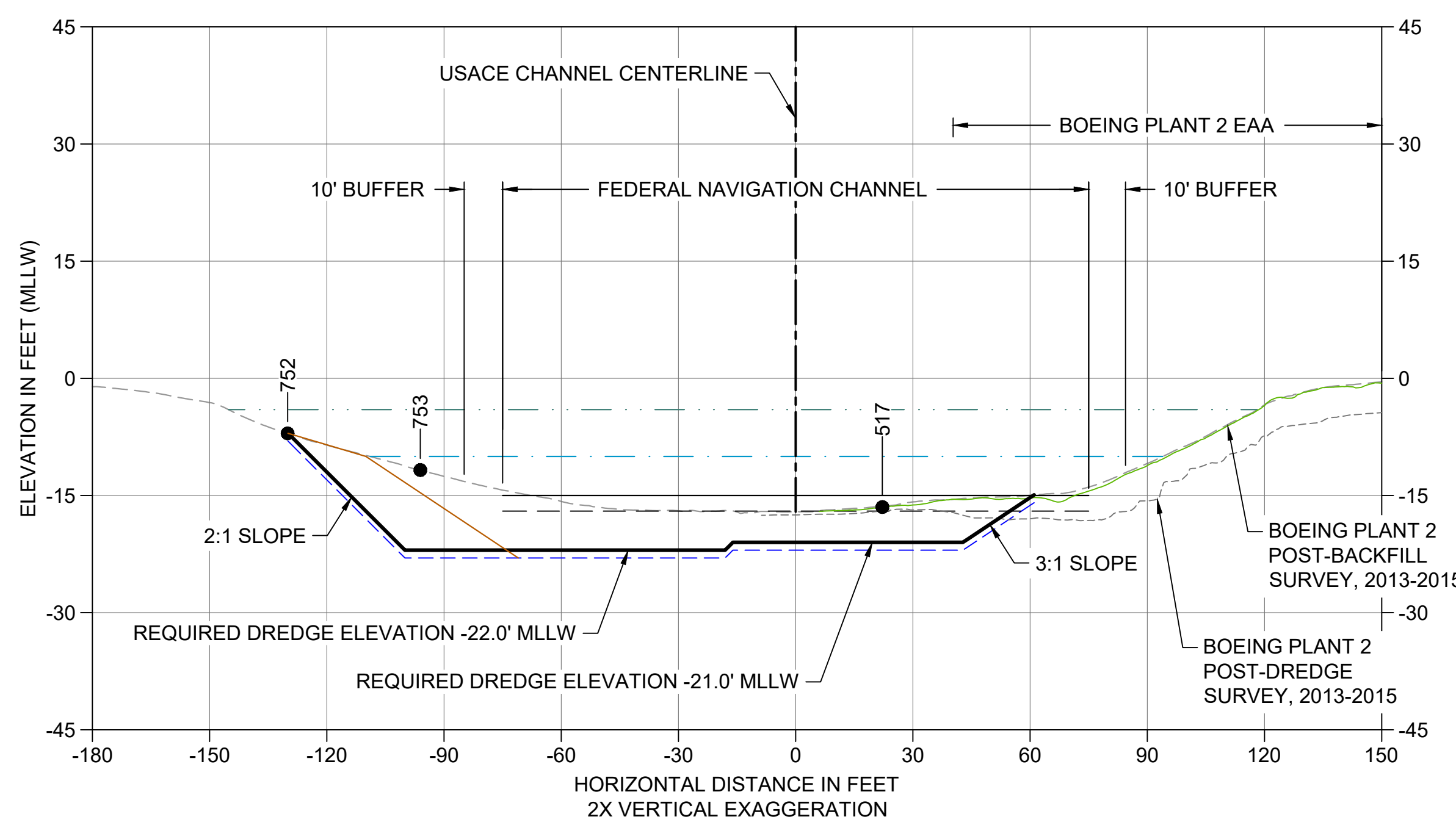
A CROSS SECTION STA 186+50
 C101 HORIZONTAL SCALE: 1" = 30'
 VERTICAL SCALE: 1" = 15'



B CROSS SECTION STA 187+45
 C101 HORIZONTAL SCALE: 1" = 30'
 VERTICAL SCALE: 1" = 15'



C CROSS SECTION STA 188+50
 C101 HORIZONTAL SCALE: 1" = 30'
 VERTICAL SCALE: 1" = 15'



D CROSS SECTION STA 189+35
 C101 HORIZONTAL SCALE: 1" = 30'
 VERTICAL SCALE: 1" = 15'

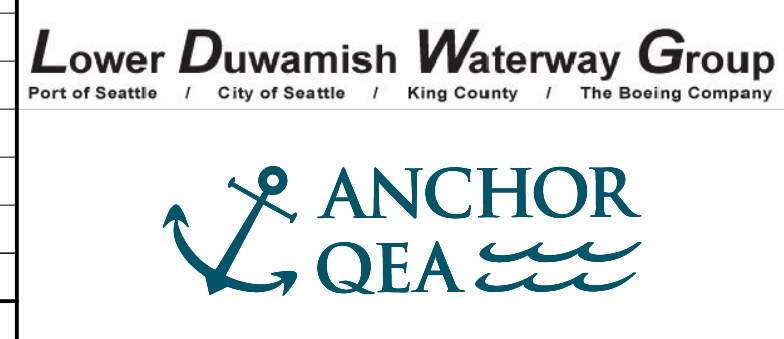
- LEGEND:**
- EXISTING GRADE MERGED DATA
 - USACE AUTHORIZED CHANNEL ELEVATION (-15' MLLW)
 - - - USACE MAINTENANCE ELEVATION (-17' MLLW)
 - · - · - INTERTIDAL/SUBTIDAL TRANSITION (-4' MLLW)
 - · - · - LOWEST HABITAT AREA ELEVATION (-10' MLLW)
 - - - BOEING PLANT 2 POST-DREDGE SURVEY, 2013-2015
 - BOEING PLANT 2 POST-BACKFILL SURVEY, 2013-2015
 - DREDGE DESIGN SURFACE
 - - - 1' ALLOWABLE OVERDREDGE
 - ENGINEERED CAP SURFACE (5/C303)
 - BACKFILL SURFACE
 - VERTICAL SAMPLE LOCATION

- NOTES:**
1. VERTICAL DATUM: MLLW
 2. ENR AND RMC PLACEMENT NOT SHOWN ON CROSS SECTIONS. SEE DETAILS 1 AND 3/C304.

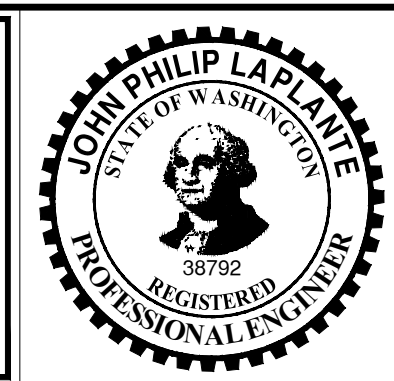
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NO	REVISION DESCRIPTION	BY	APVD	DATE



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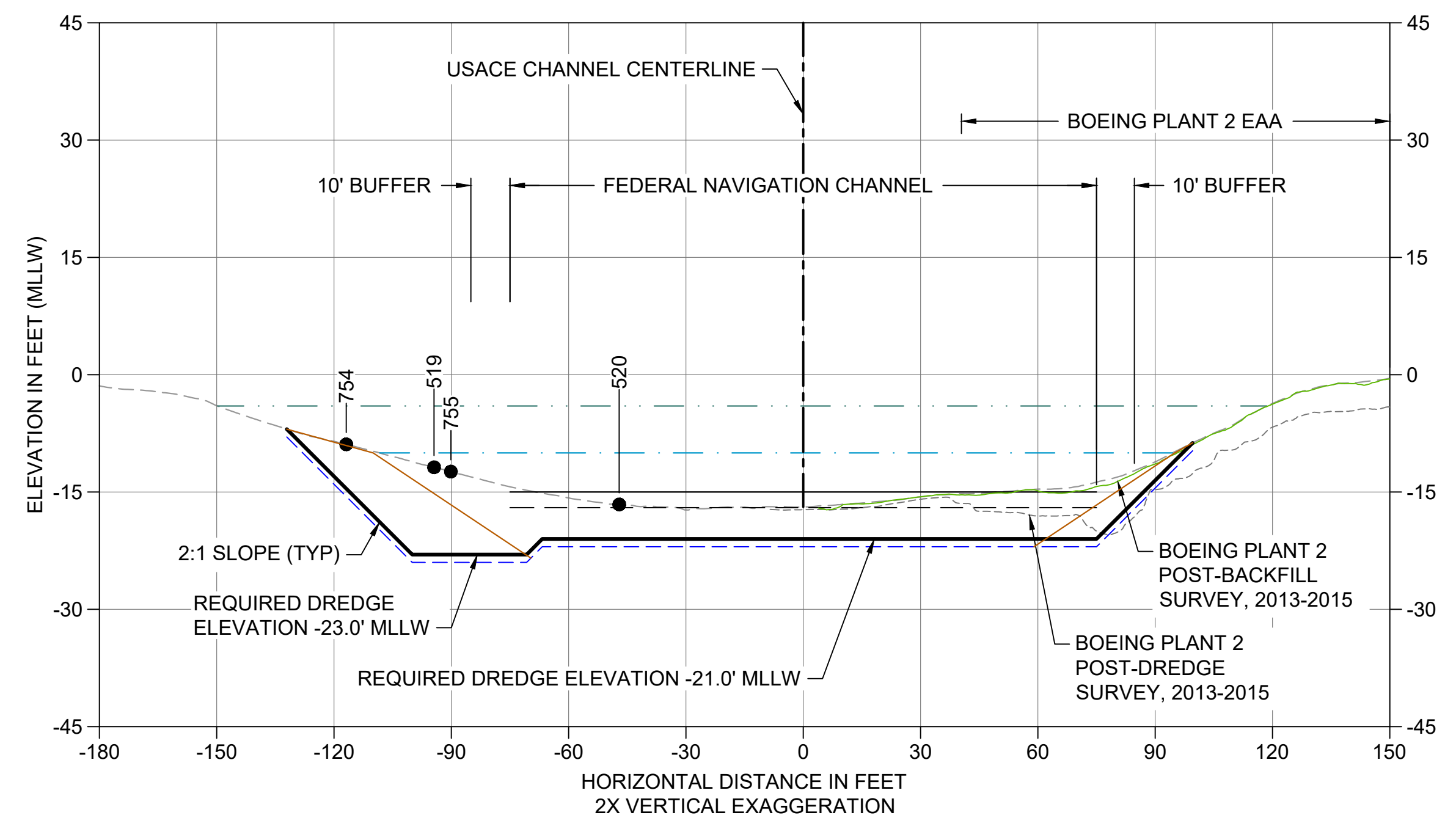
DESIGNED/DRAWN: K. GROSS	CHECKED: BIGSBY/GRIGA
PROJECT ENGINEER: J. LAPLANTE	SCALE: AS NOTED
DESIGN APPROVAL: T. WANG	PROJECT FILE NO: E00559E18
PROJECT ACCEPTANCE: PRJCT MNGR	CONTRACT NO: C0XXXXCX



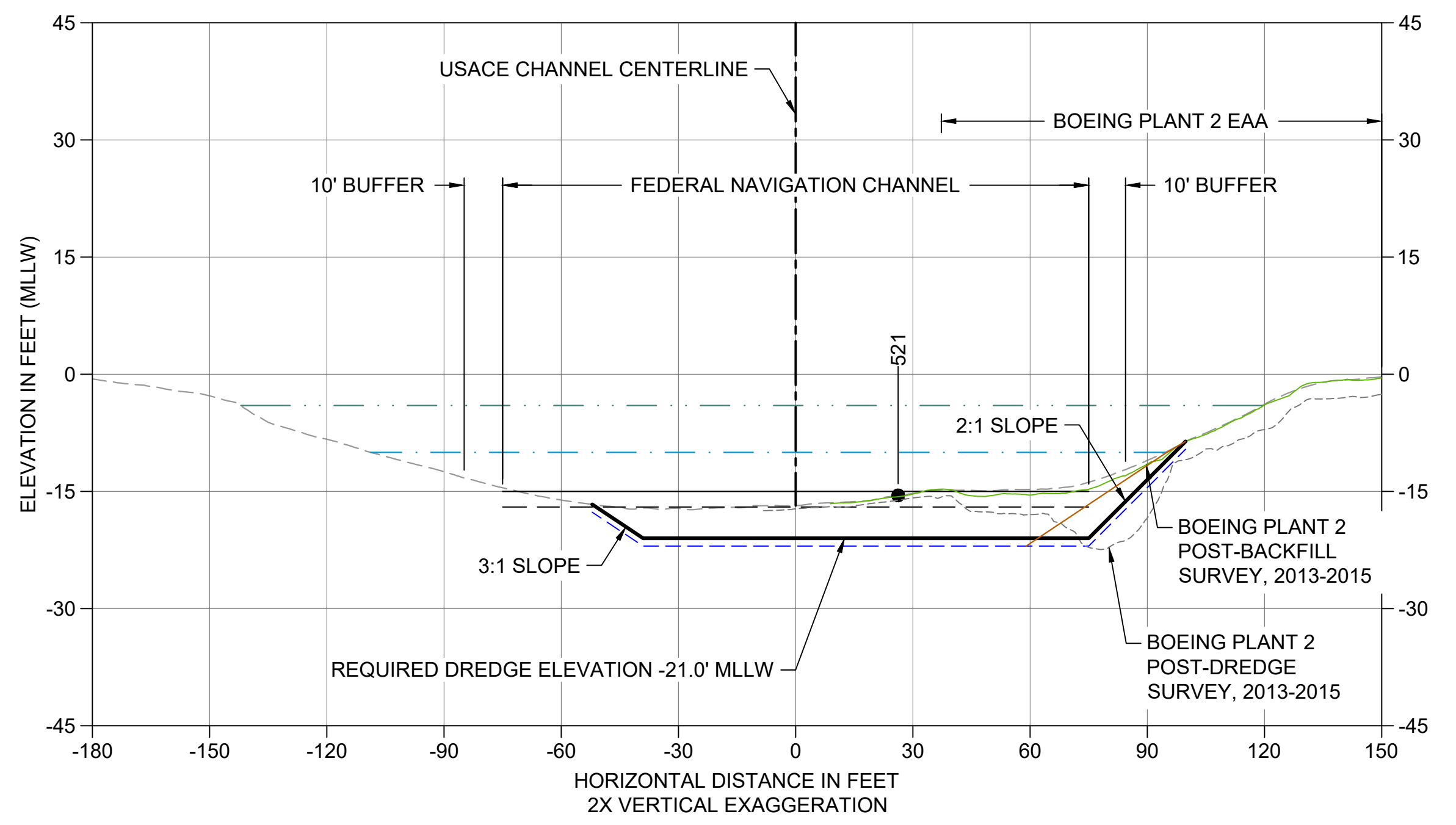
DEPARTMENT OF NATURAL RESOURCES & PARKS
 WASTEWATER TREATMENT DIVISION
 LOWER DUWAMISH WATERWAY UPPER REACH
 SEDIMENT CLEANUP
CROSS SECTION (1 OF 15)

DATE: JULY 2023
DRAWING NO: C201
SHT NO / TOTAL 54 / 87
REV NO: 0

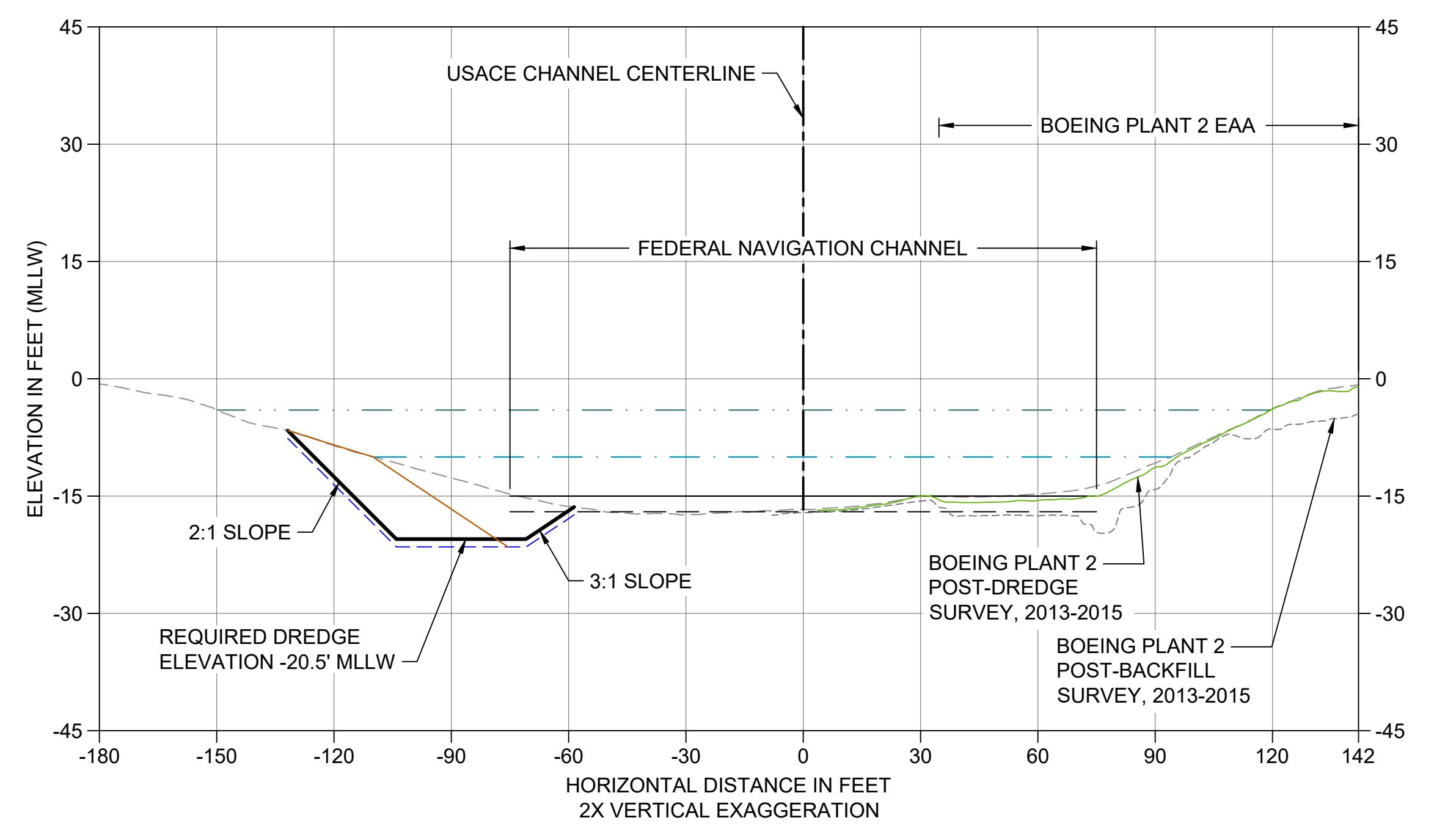
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 PLOTTED: Jul 21, 2023 - 11:51:13pm By: tgriga



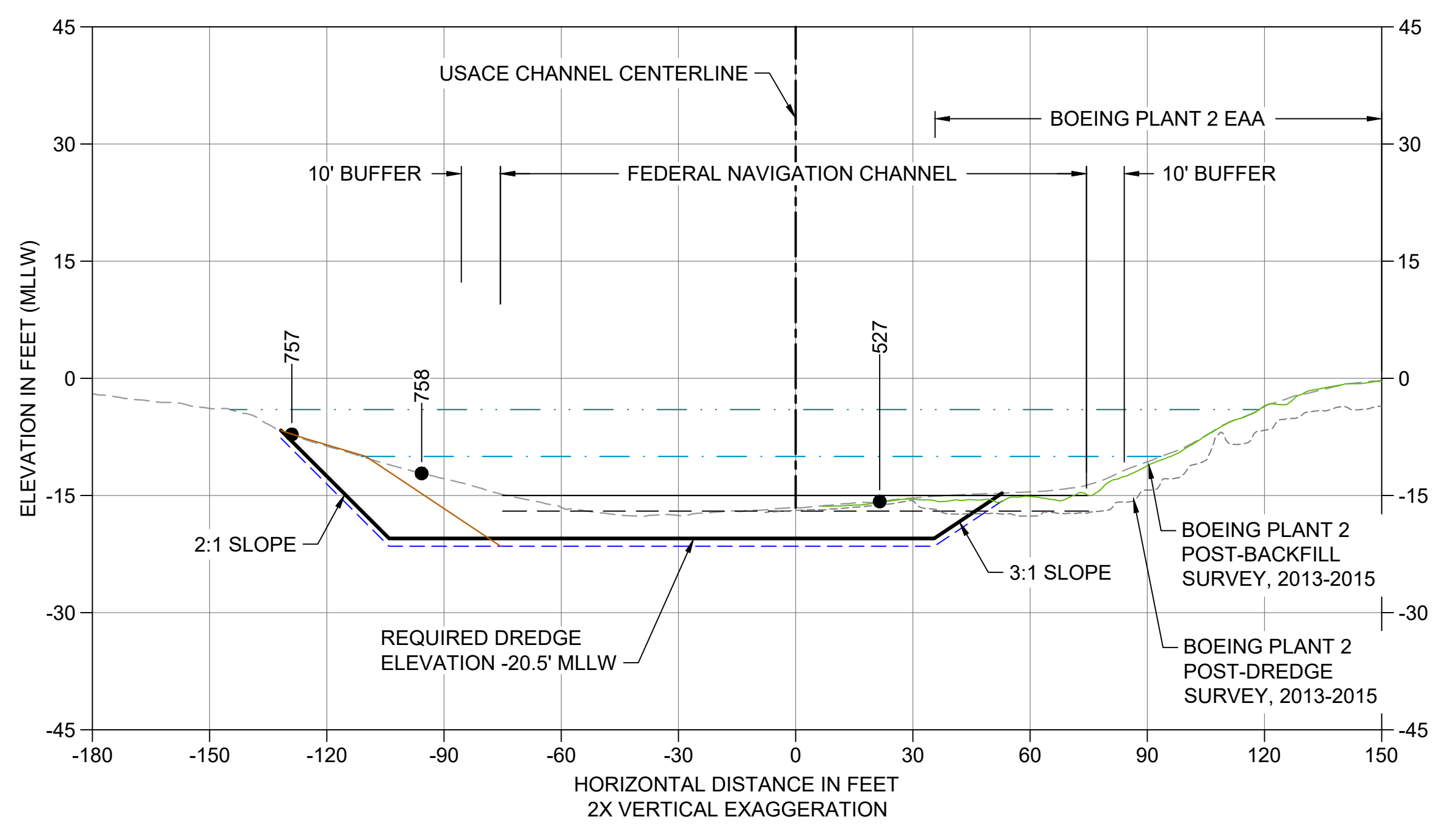
E CROSS SECTION STA 190+35
 C101 HORIZONTAL SCALE: 1" = 30'
 VERTICAL SCALE: 1" = 15'



F CROSS SECTION STA 191+50
 C101 HORIZONTAL SCALE: 1" = 30'
 VERTICAL SCALE: 1" = 15'



G CROSS SECTION STA 192+50
 C101 HORIZONTAL SCALE: 1" = 30'
 VERTICAL SCALE: 1" = 15'



H CROSS SECTION STA 193+30
 C102 HORIZONTAL SCALE: 1" = 30'
 VERTICAL SCALE: 1" = 15'

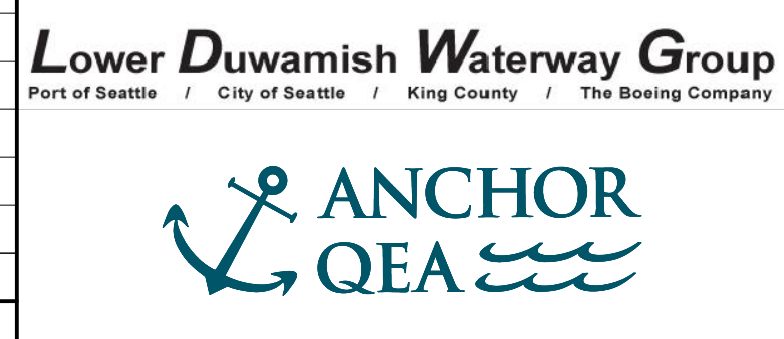
- LEGEND:**
- EXISTING GRADE MERGED DATA
 - USACE AUTHORIZED CHANNEL ELEVATION (-15' MLLW)
 - - - USACE MAINTENANCE ELEVATION (-17' MLLW)
 - · - · - INTERTIDAL/SUBTIDAL TRANSITION (-4' MLLW)
 - · - · - LOWEST HABITAT AREA ELEVATION (-10' MLLW)
 - - - BOEING PLANT 2 POST-DREDGE SURVEY, 2013-2015
 - BOEING PLANT 2 POST-BACKFILL SURVEY, 2013-2015
 - DREDGE DESIGN SURFACE
 - - - 1' ALLOWABLE OVERDREDGE
 - ENGINEERED CAP SURFACE
 - BACKFILL SURFACE
 - VERTICAL SAMPLE LOCATION

- NOTES:**
1. VERTICAL DATUM: MLLW
 2. ENR AND RMC PLACEMENT NOT SHOWN ON CROSS SECTIONS. SEE DETAILS 1 AND 3/C304.

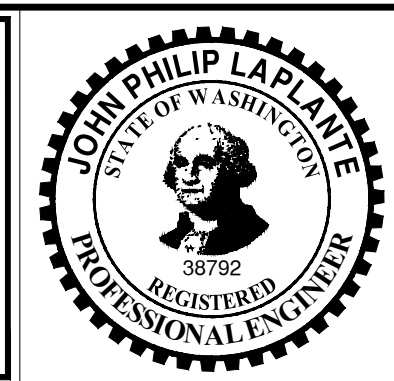
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NO	REVISION DESCRIPTION	BY	APVD	DATE



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 JULY 2023



DESIGNED/DRAWN: K. GROSS
 PROJECT ENGINEER: J. LAPLANTE
 DESIGN APPROVAL: T. WANG
 PROJECT ACCEPTANCE: PRJCT MNGR

CHECKED: BIGSBY/GRIGA
 SCALE: AS NOTED
 PROJECT FILE NO: E00559E18
 CONTRACT NO: C0XXXXCX

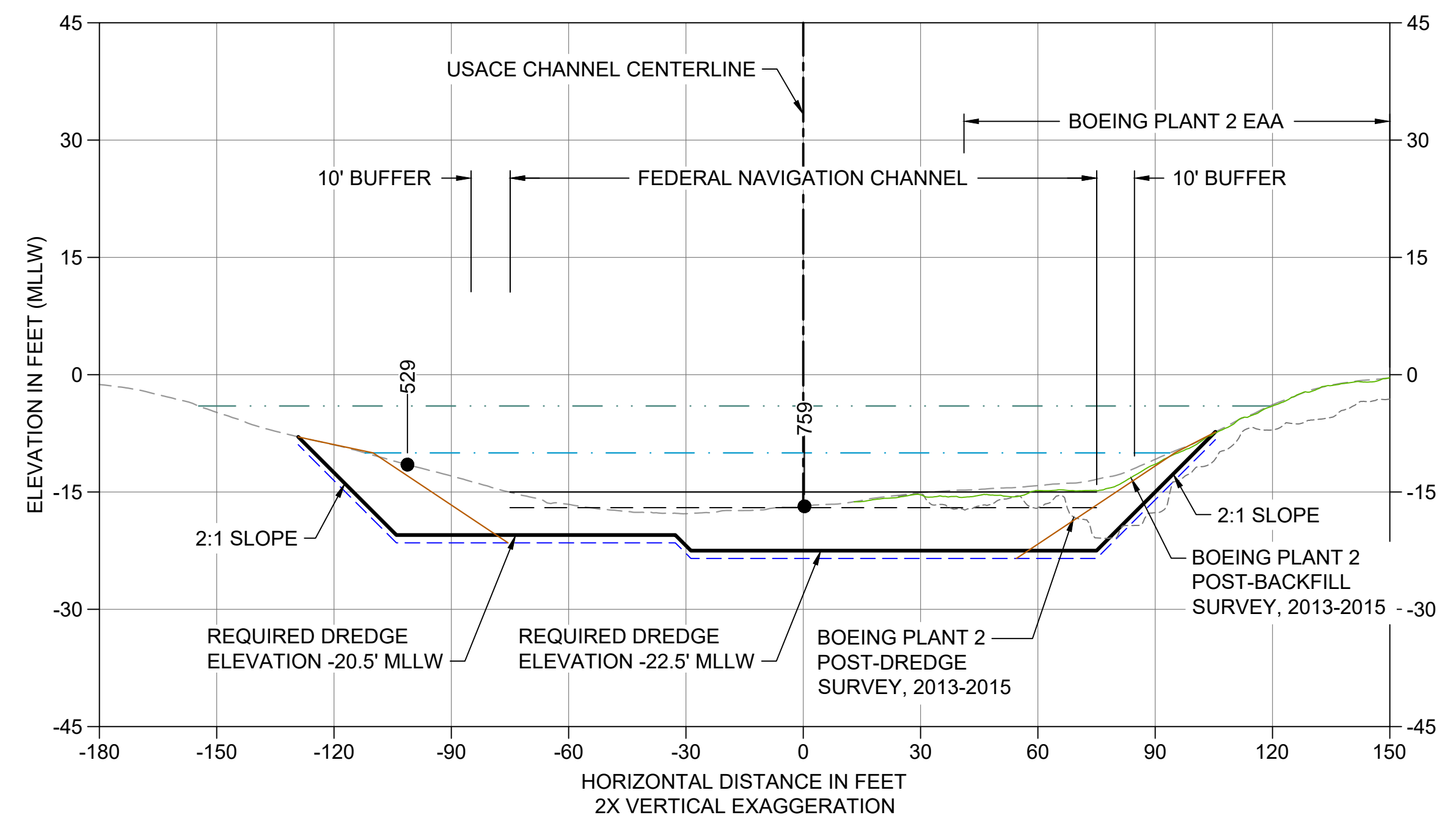


DEPARTMENT OF NATURAL RESOURCES & PARKS
 WASTEWATER TREATMENT DIVISION
 LOWER DUWAMISH WATERWAY UPPER REACH
 SEDIMENT CLEANUP

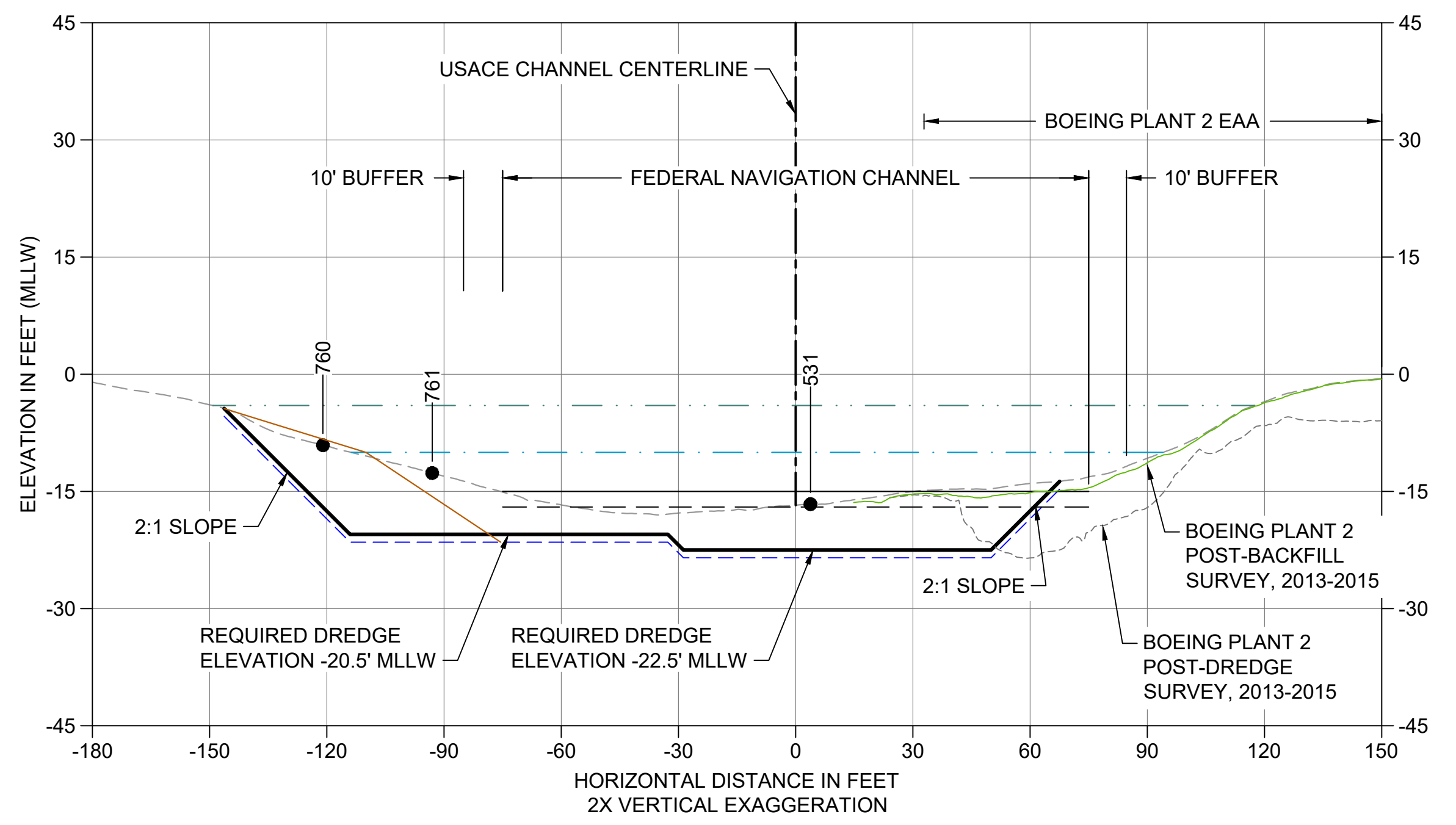
CROSS SECTION (2 OF 15)

DATE:	JULY 2023
DRAWING NO:	C202
SHT NO / TOTAL	55 / 87
REV NO:	0

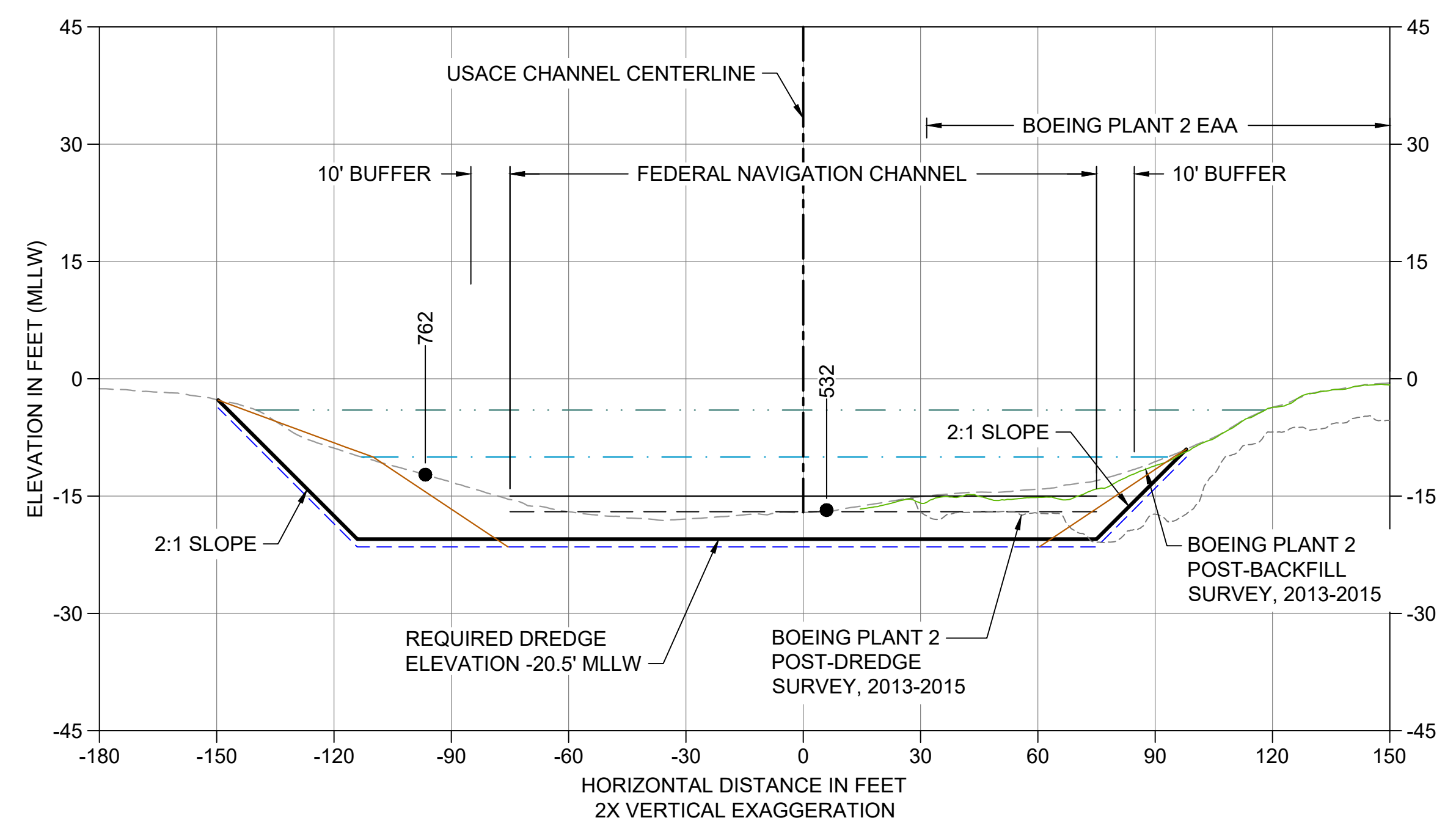
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 PLOTTED: Jul 21, 2023 - 11:51:38pm By: tgriga



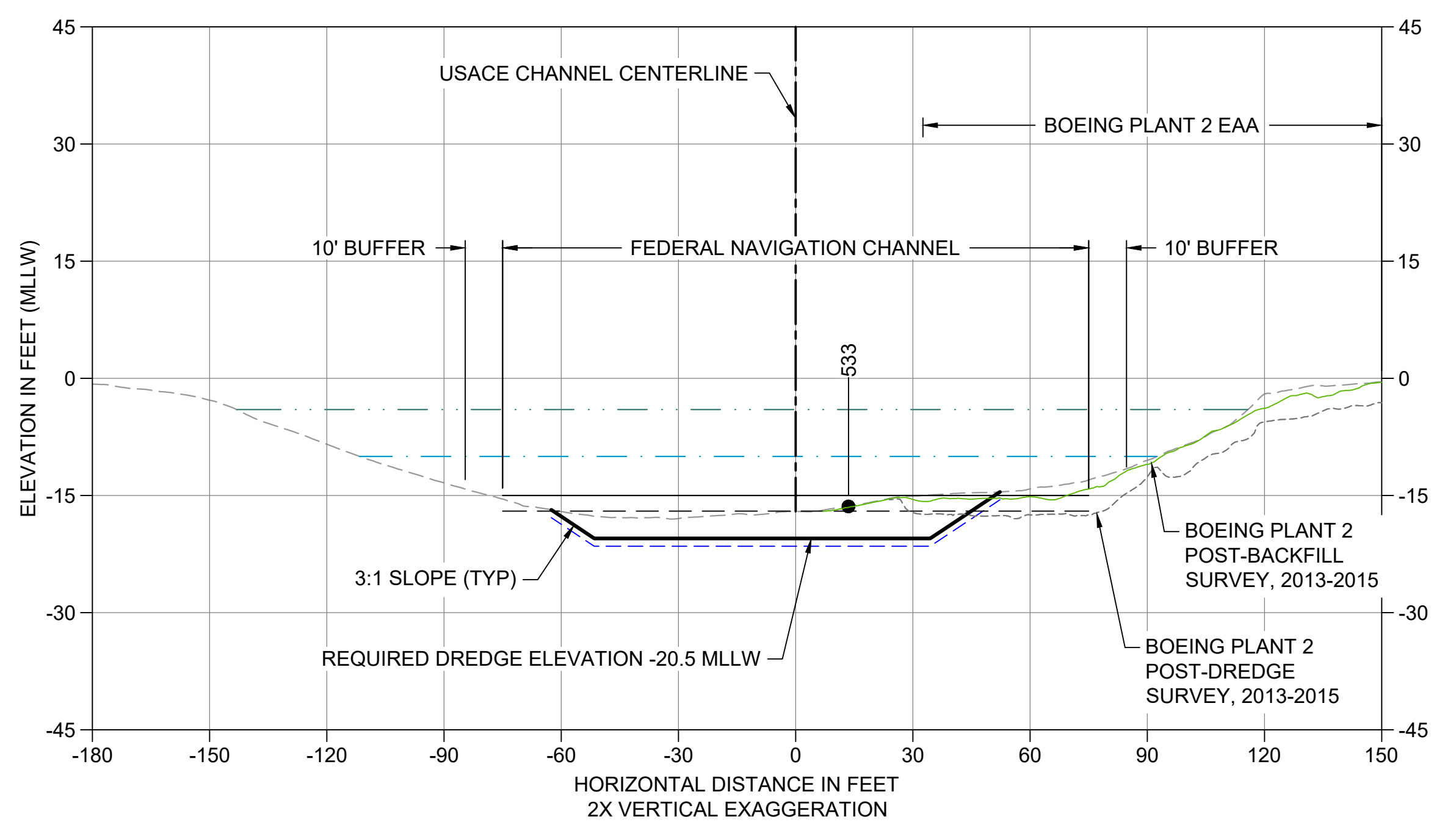
I CROSS SECTION STA 194+60
 C102 HORIZONTAL SCALE: 1" = 30'
 VERTICAL SCALE: 1" = 15'



J CROSS SECTION STA 195+50
 C102 HORIZONTAL SCALE: 1" = 30'
 VERTICAL SCALE: 1" = 15'



K CROSS SECTION & STA 196+80
 C102 HORIZONTAL SCALE: 1" = 30'
 VERTICAL SCALE: 1" = 15'



L CROSS SECTION STA 197+50
 C102 HORIZONTAL SCALE: 1" = 30'
 VERTICAL SCALE: 1" = 15'

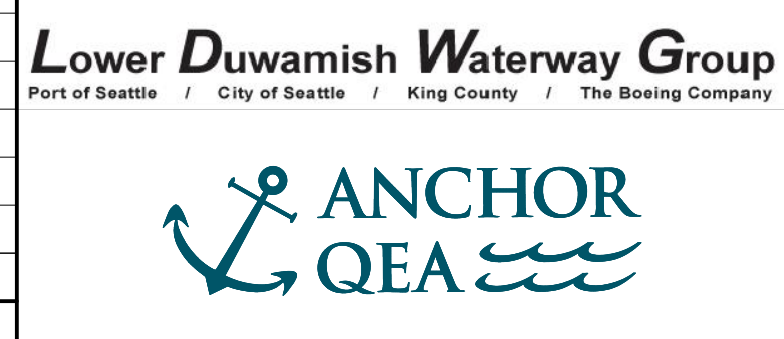
- LEGEND:**
- EXISTING GRADE MERGED DATA
 - USACE AUTHORIZED CHANNEL ELEVATION (-15' MLLW)
 - - - USACE MAINTENANCE ELEVATION (-17' MLLW)
 - · - · - INTERTIDAL/SUBTIDAL TRANSITION (-4' MLLW)
 - · - · - LOWEST HABITAT AREA ELEVATION (-10' MLLW)
 - - - BOEING PLANT 2 POST-DREDGE SURVEY, 2013-2015
 - BOEING PLANT 2 POST-BACKFILL SURVEY, 2013-2015
 - DREDGE DESIGN SURFACE
 - - - 1' ALLOWABLE OVERDREDGE
 - ENGINEERED CAP SURFACE
 - BACKFILL SURFACE
 - VERTICAL SAMPLE LOCATION

- NOTES:**
1. VERTICAL DATUM: MLLW
 2. ENR AND RMC PLACEMENT NOT SHOWN ON CROSS SECTIONS. SEE DETAILS 1 AND 3/C304.

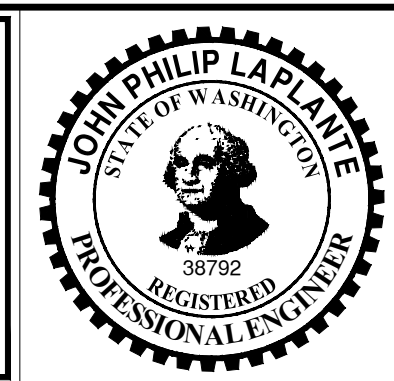
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NO	REVISION DESCRIPTION	BY	APVD	DATE



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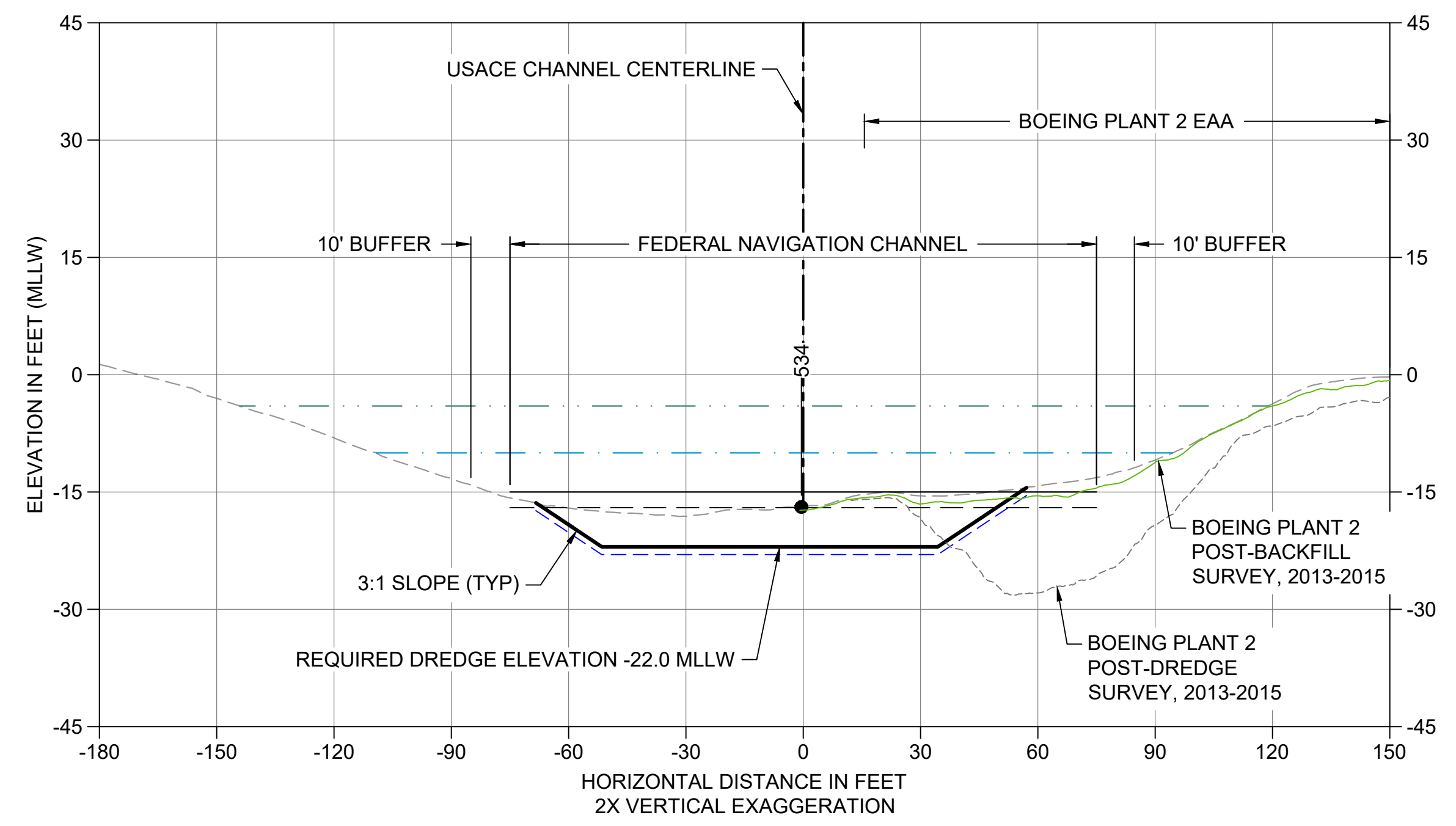
DESIGNED/DRAWN: K. GROSS
 PROJECT ENGINEER: J. LAPLANTE
 DESIGN APPROVAL: T. WANG
 PROJECT ACCEPTANCE: PRJCT MNGR



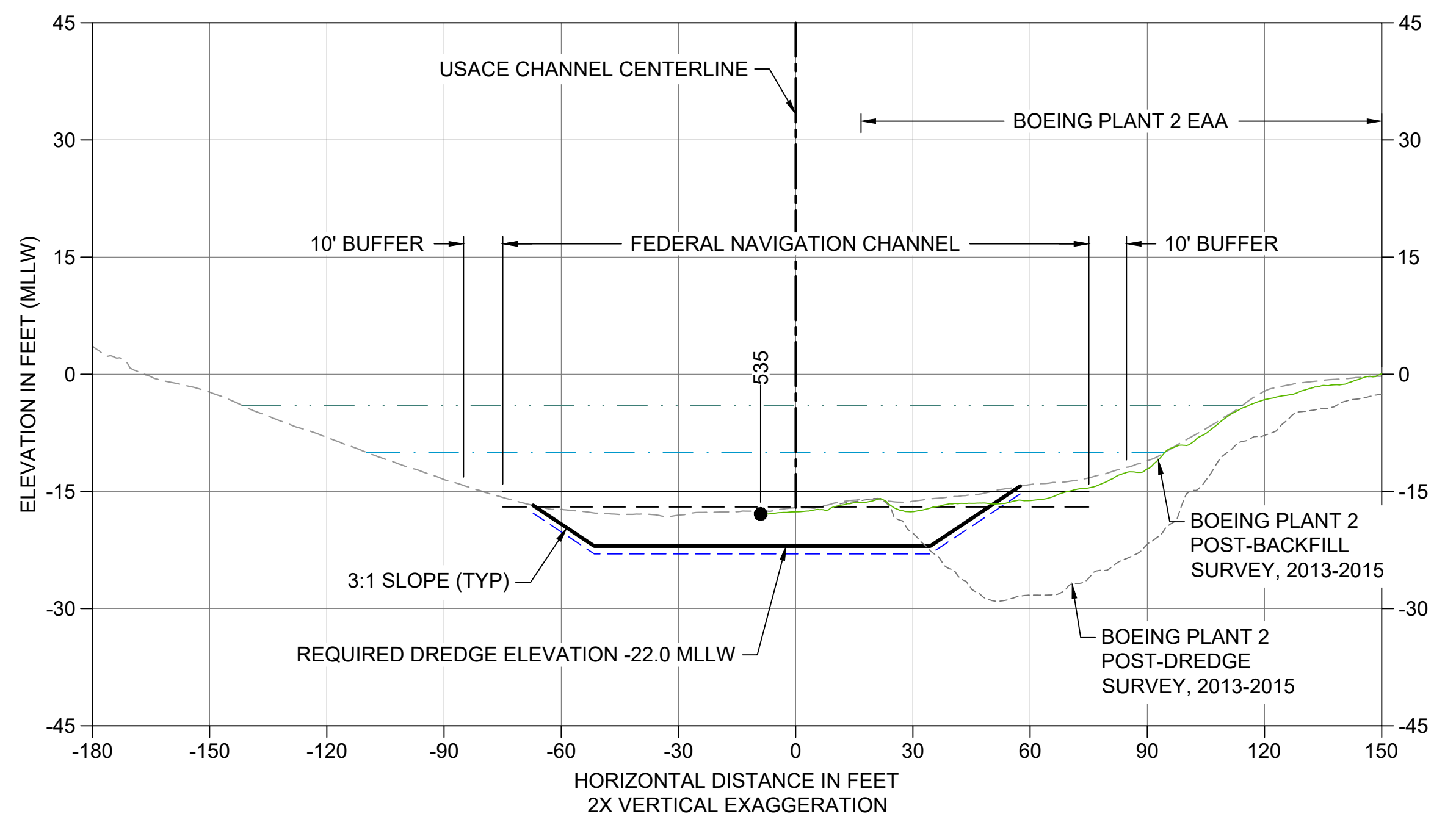
DEPARTMENT OF NATURAL RESOURCES & PARKS
 WASTEWATER TREATMENT DIVISION
 LOWER DUWAMISH WATERWAY UPPER REACH
 SEDIMENT CLEANUP
CROSS SECTION (3 OF 15)

DATE: JULY 2023
 DRAWING NO: **C203**
 SHT NO / TOTAL: 56 / 87
 REV NO: **0**

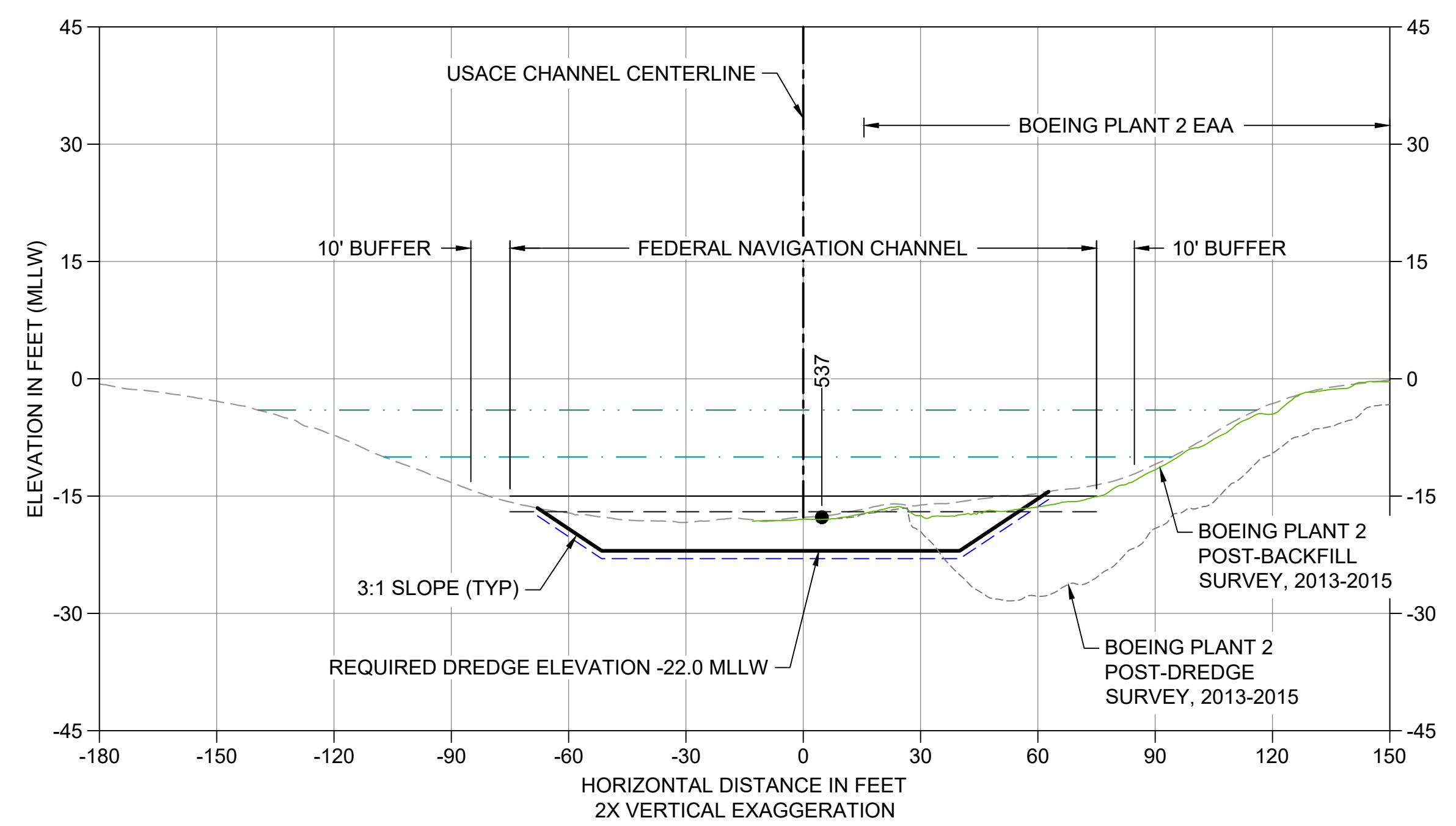
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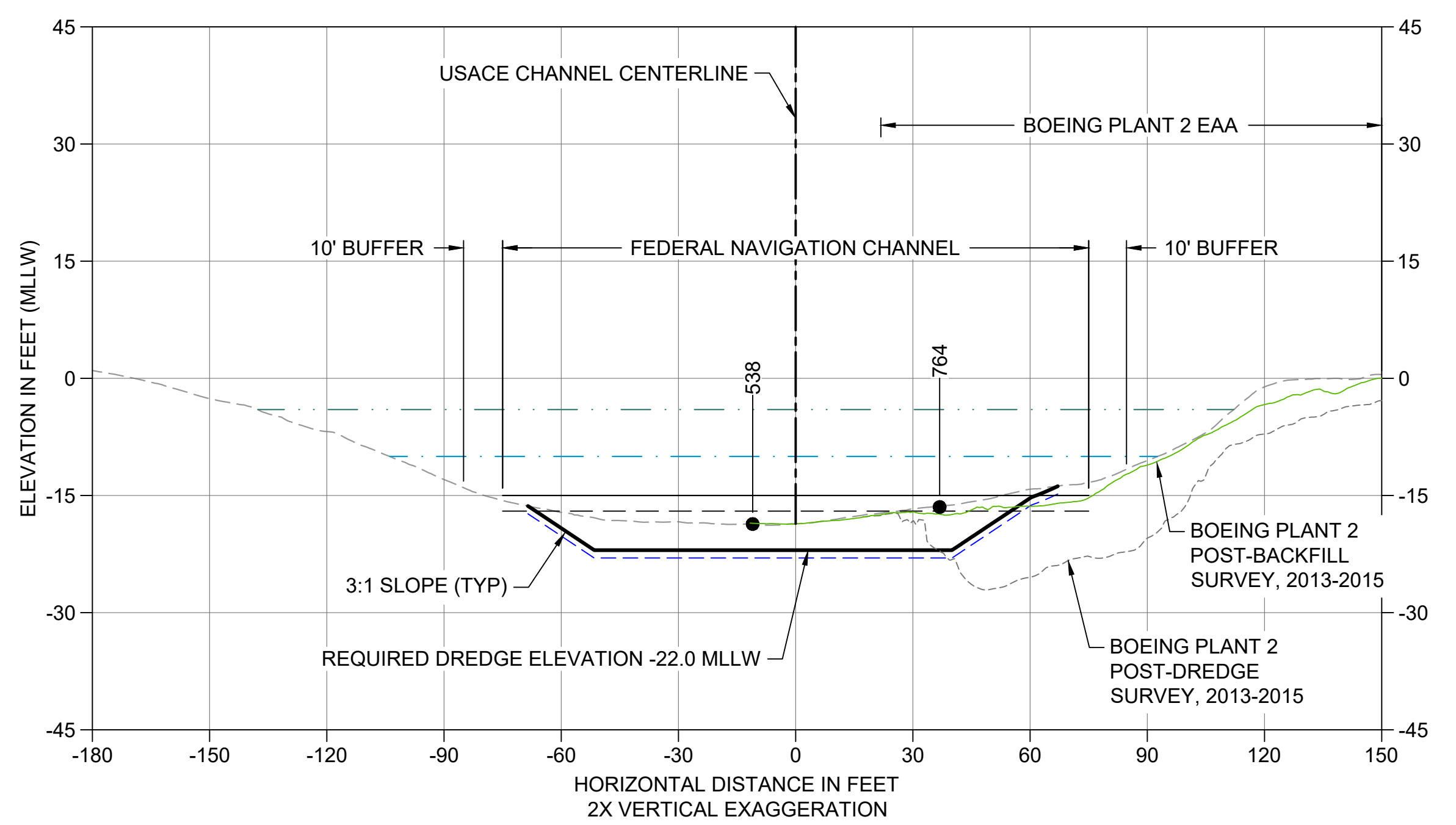
M CROSS SECTION STA 198+50
 C102 HORIZONTAL SCALE: 1" = 30'
 VERTICAL SCALE: 1" = 15'



N CROSS SECTION STA 199+50
 C102 HORIZONTAL SCALE: 1" = 30'
 VERTICAL SCALE: 1" = 15'



O CROSS SECTION STA 200+50
 C102 HORIZONTAL SCALE: 1" = 30'
 VERTICAL SCALE: 1" = 15'



P CROSS SECTION STA 201+50
 C103 HORIZONTAL SCALE: 1" = 30'
 VERTICAL SCALE: 1" = 15'

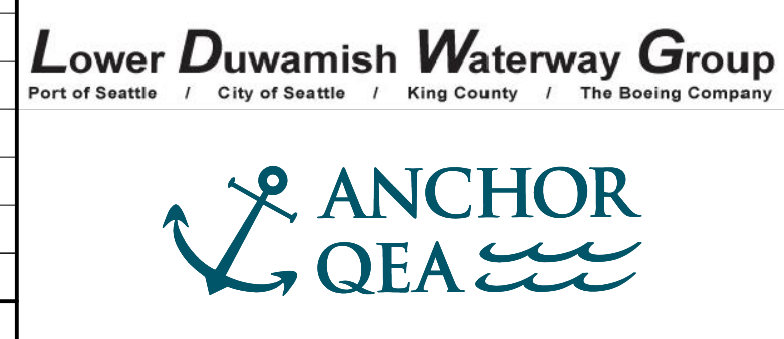
- LEGEND:**
- EXISTING GRADE MERGED DATA
 - USACE AUTHORIZED CHANNEL ELEVATION (-15' MLLW)
 - - - USACE MAINTENANCE ELEVATION (-17' MLLW)
 - · - · - INTERTIDAL/SUBTIDAL TRANSITION (-4' MLLW)
 - · - · - LOWEST HABITAT AREA ELEVATION (-10' MLLW)
 - - - BOEING PLANT 2 POST-DREDGE SURVEY, 2013-2015
 - BOEING PLANT 2 POST-BACKFILL SURVEY, 2013-2015
 - DREDGE DESIGN SURFACE
 - - - 1' ALLOWABLE OVERDREDGE
 - ENGINEERED CAP SURFACE
 - BACKFILL SURFACE
 - VERTICAL SAMPLE LOCATION

- NOTES:**
- VERTICAL DATUM: MLLW
 - ENR AND RMC PLACEMENT NOT SHOWN ON CROSS SECTIONS. SEE DETAILS 1 AND 3/C304.

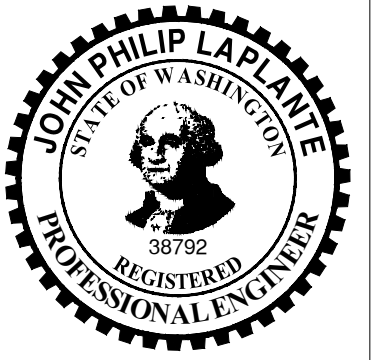
COLOR IMAGE
 THIS DRAWING IS COMPOSED USING
 COLOR IMAGES OR PHOTOGRAPHS AND
 MUST BE PLOTTED, PRINTED, AND
 REPRODUCED IN COLOR TO BE VIEWED
 ACCURATELY.

NOT FOR BIDDING

NO	REVISION DESCRIPTION	BY	APVD	DATE



PRE-FINAL ISSUE DRAWING
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 JULY 2023



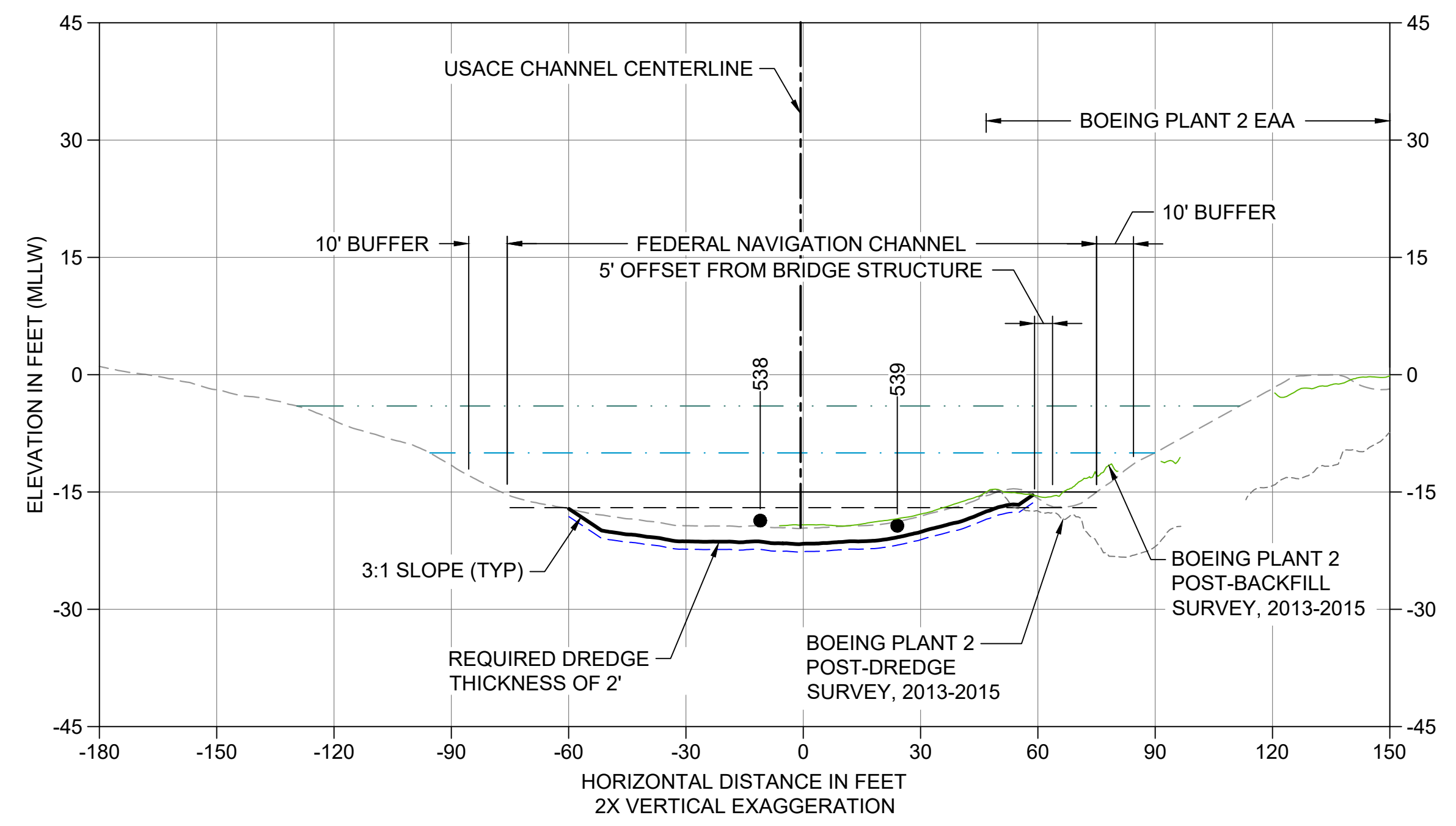
DESIGNED/DRAWN: K. GROSS
 PROJECT ENGINEER: J. LAPLANTE
 DESIGN APPROVAL: T. WANG
 PROJECT ACCEPTANCE: PRJCT MNGR
 CHECKED: BIGSBY/GRIGA
 SCALE: AS NOTED
 PROJECT FILE NO: E00559E18
 CONTRACT NO: C0XXXXCX



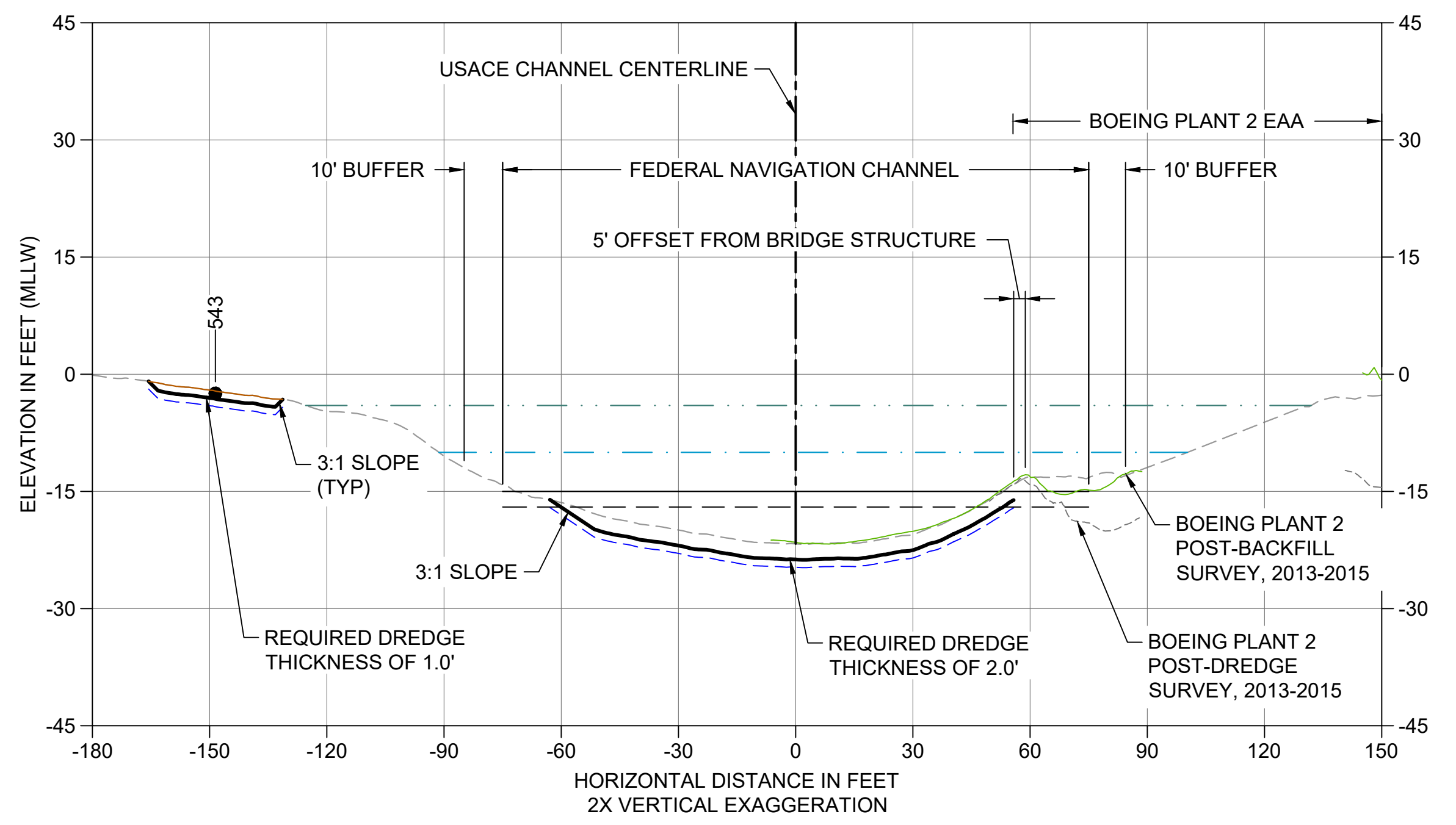
DEPARTMENT OF NATURAL RESOURCES & PARKS
 WASTEWATER TREATMENT DIVISION
 LOWER DUWAMISH WATERWAY UPPER REACH
 SEDIMENT CLEANUP
CROSS SECTION (4 OF 15)

DATE: JULY 2023
 DRAWING NO: **C204**
 SHT NO / TOTAL: 57 / 87
 REV NO: **0**

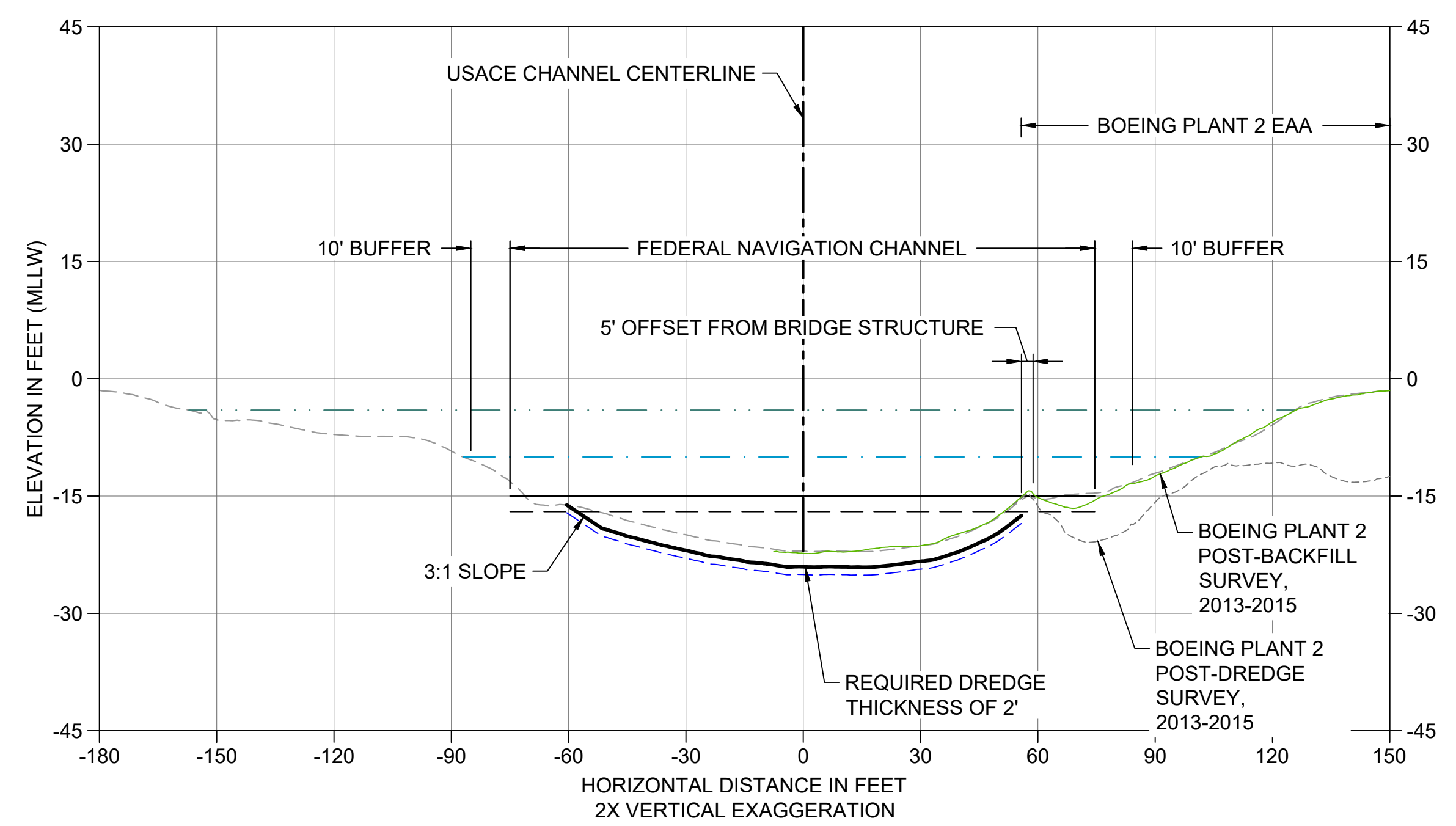
BORDER FILE EDITION: x:\KOV\TD\size-TB-Border_ACBM\layer
 \gial\CAD\Projects\0067-King County\LDW\Upper Reach Engineering Services\Construction Plans\0067-LDWUR-PL-Dredge-Sections.dwg | Layout: C205
 PLOTTED: Jul 21, 2023 - 11:52:29pm By: tgriga



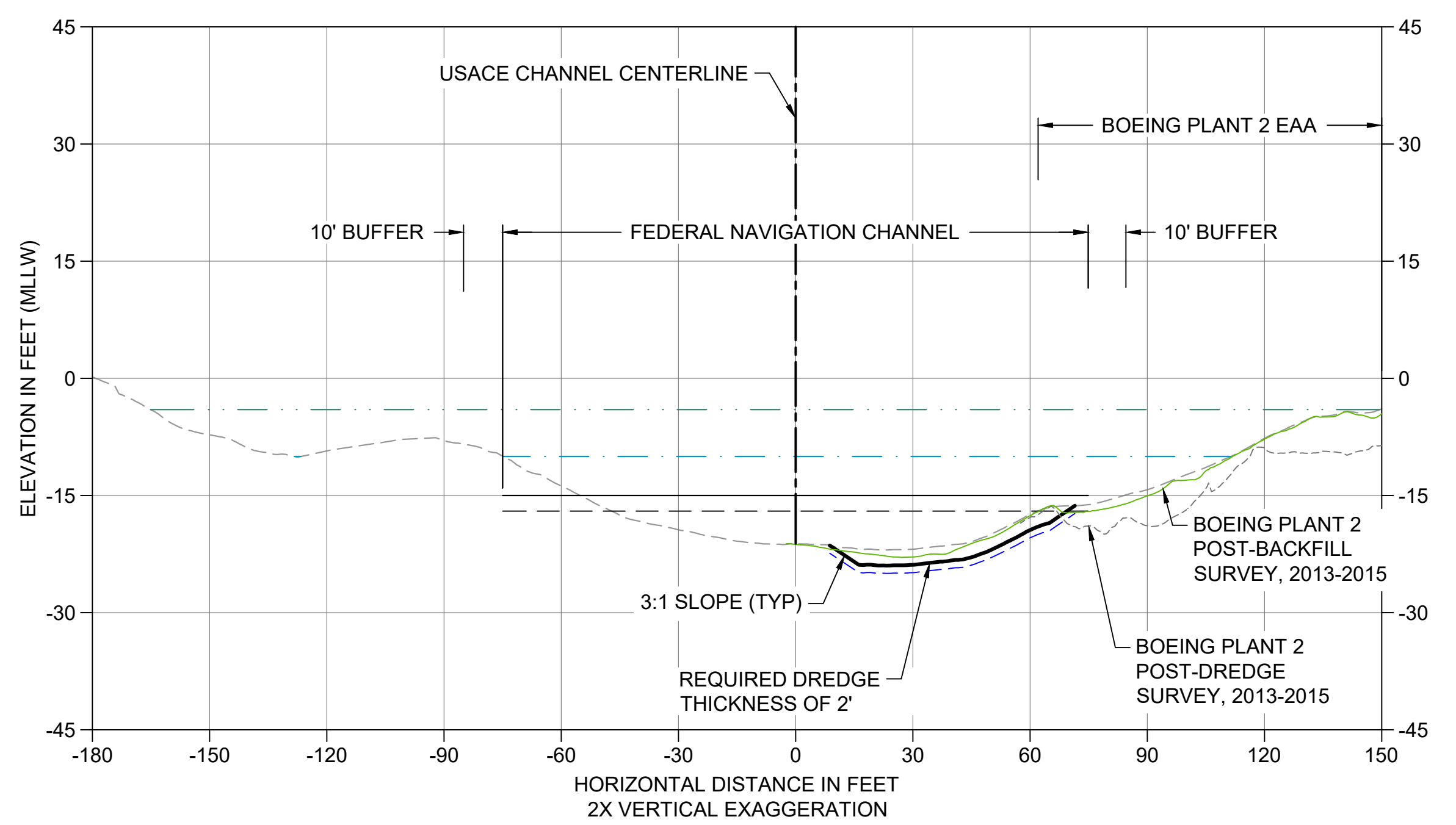
Q CROSS SECTION STA 202+50
 C103 HORIZONTAL SCALE: 1" = 30'
 VERTICAL SCALE: 1" = 15'



R CROSS SECTION STA 203+25
 C103 HORIZONTAL SCALE: 1" = 30'
 VERTICAL SCALE: 1" = 15'



S CROSS SECTION STA 203+50
 C103 HORIZONTAL SCALE: 1" = 30'
 VERTICAL SCALE: 1" = 15'



T CROSS SECTION STA 204+50
 C103 HORIZONTAL SCALE: 1" = 30'
 VERTICAL SCALE: 1" = 15'

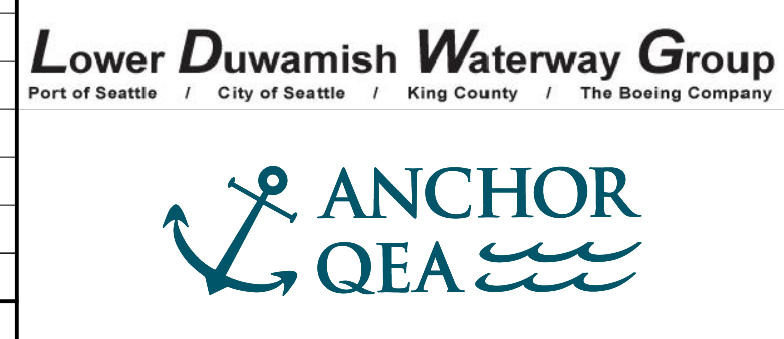
- LEGEND:**
- EXISTING GRADE MERGED DATA
 - USACE AUTHORIZED CHANNEL ELEVATION (-15' MLLW)
 - - - USACE MAINTENANCE ELEVATION (-17' MLLW)
 - · - · - INTERTIDAL/SUBTIDAL TRANSITION (-4' MLLW)
 - · - · - LOWEST HABITAT AREA ELEVATION (-10' MLLW)
 - - - BOEING PLANT 2 POST-DREDGE SURVEY, 2013-2015
 - BOEING PLANT 2 POST-BACKFILL SURVEY, 2013-2015
 - DREDGE DESIGN SURFACE
 - - - 1' ALLOWABLE OVERDREDGE
 - ENGINEERED CAP SURFACE (5/C303)
 - BACKFILL SURFACE
 - VERTICAL SAMPLE LOCATION

- NOTES:**
1. VERTICAL DATUM: MLLW
 2. ENR AND RMC PLACEMENT NOT SHOWN ON CROSS SECTIONS. SEE DETAILS 1 AND 3/C304.

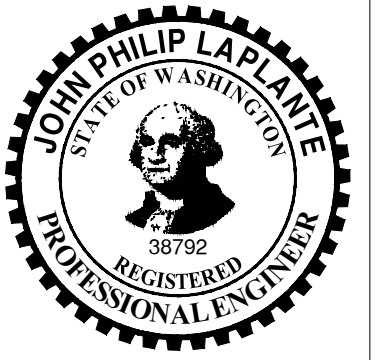
COLOR IMAGE
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 ACCURATELY.

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NO	REVISION DESCRIPTION	BY	APVD	DATE



PRE-FINAL ISSUE DRAWING
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 JULY 2023



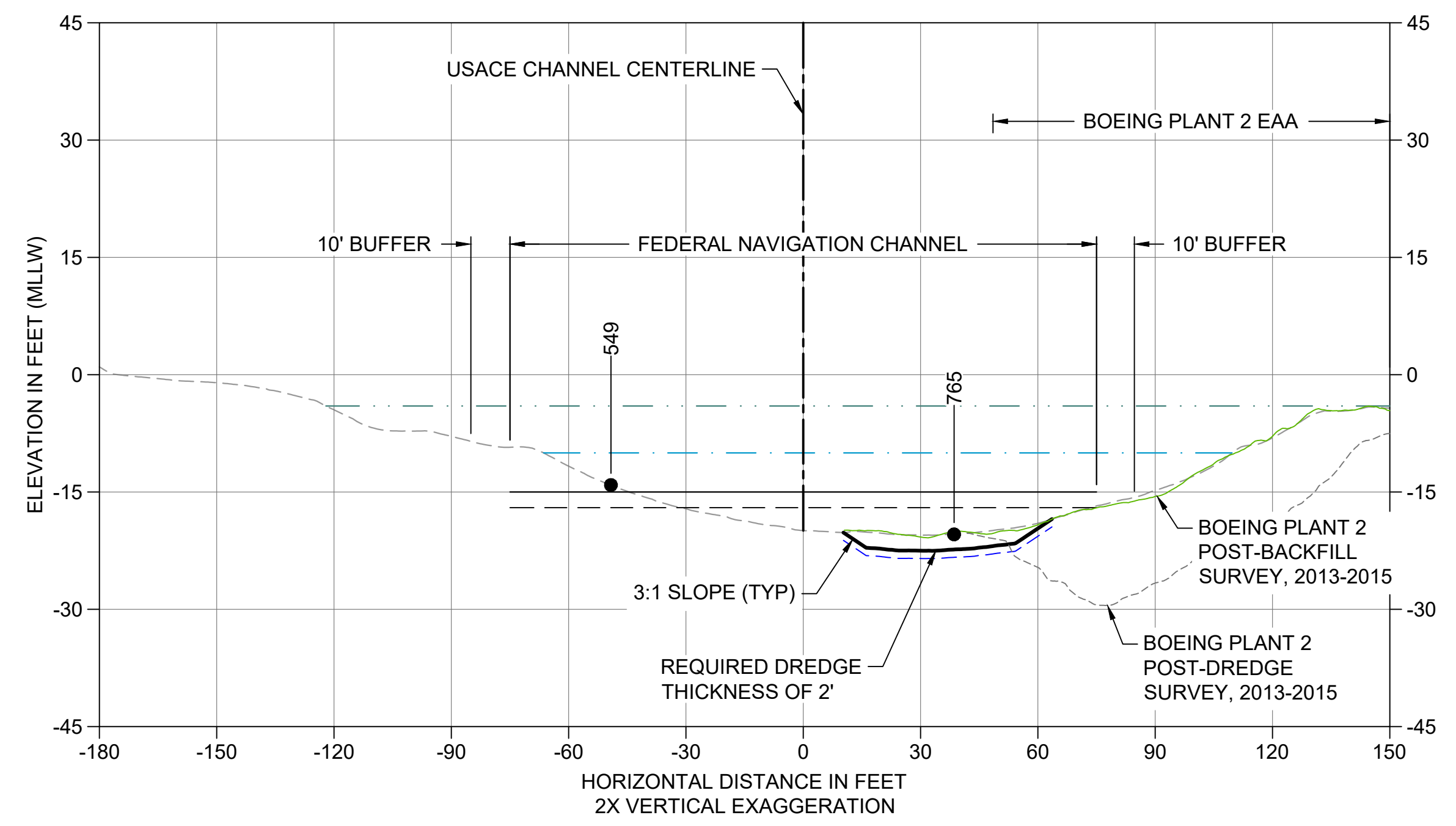
DESIGNED/DRAWN: K. GROSS
 PROJECT ENGINEER: J. LAPLANTE
 DESIGN APPROVAL: T. WANG
 PROJECT ACCEPTANCE: PRJCT MNGR



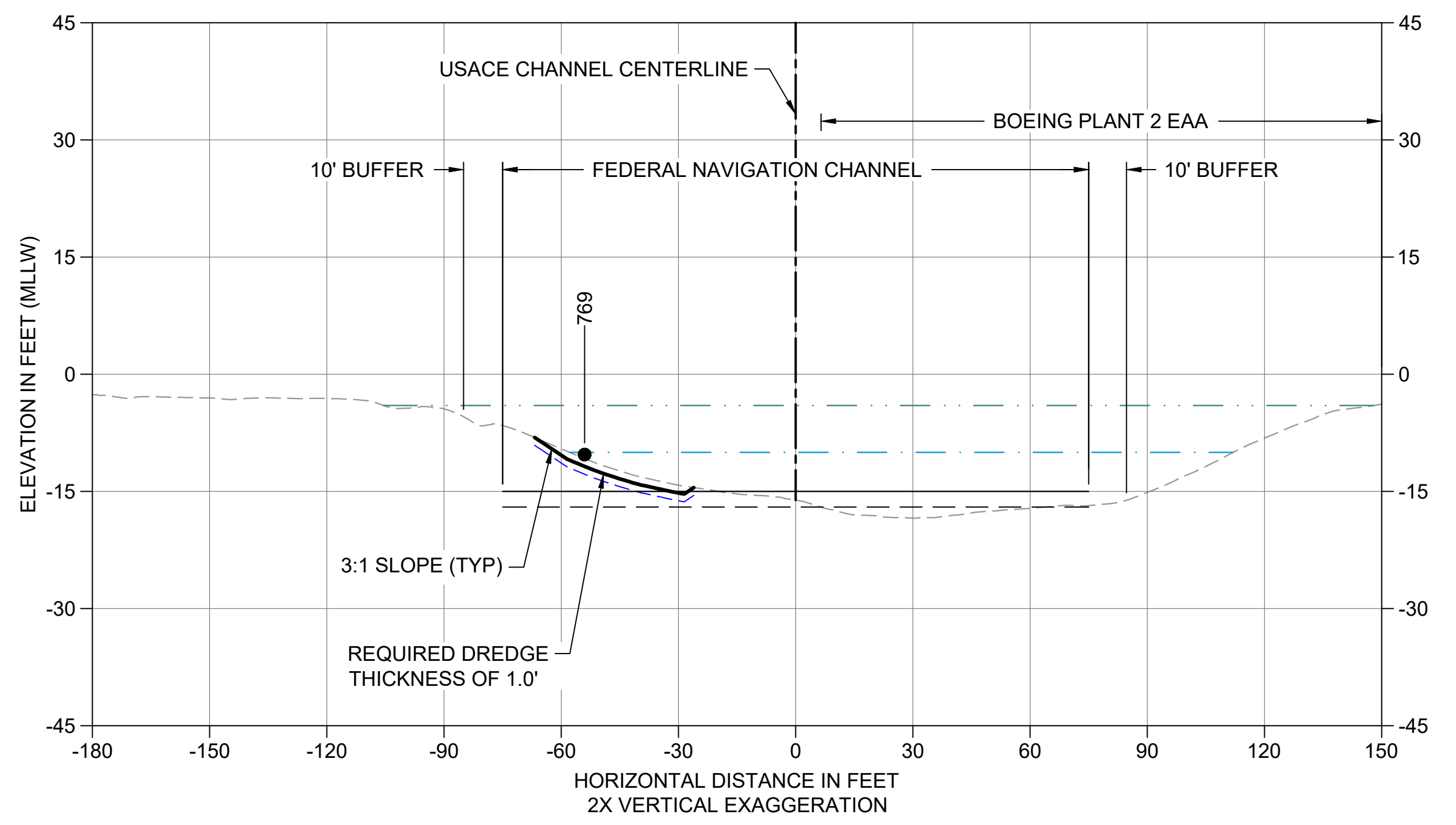
DEPARTMENT OF NATURAL RESOURCES & PARKS
 WASTEWATER TREATMENT DIVISION
 LOWER DUWAMISH WATERWAY UPPER REACH
 SEDIMENT CLEANUP
CROSS SECTION (5 OF 15)

DATE: JULY 2023
 DRAWING NO: **C205**
 SHT NO / TOTAL: 58 / 87
 REV NO: **0**

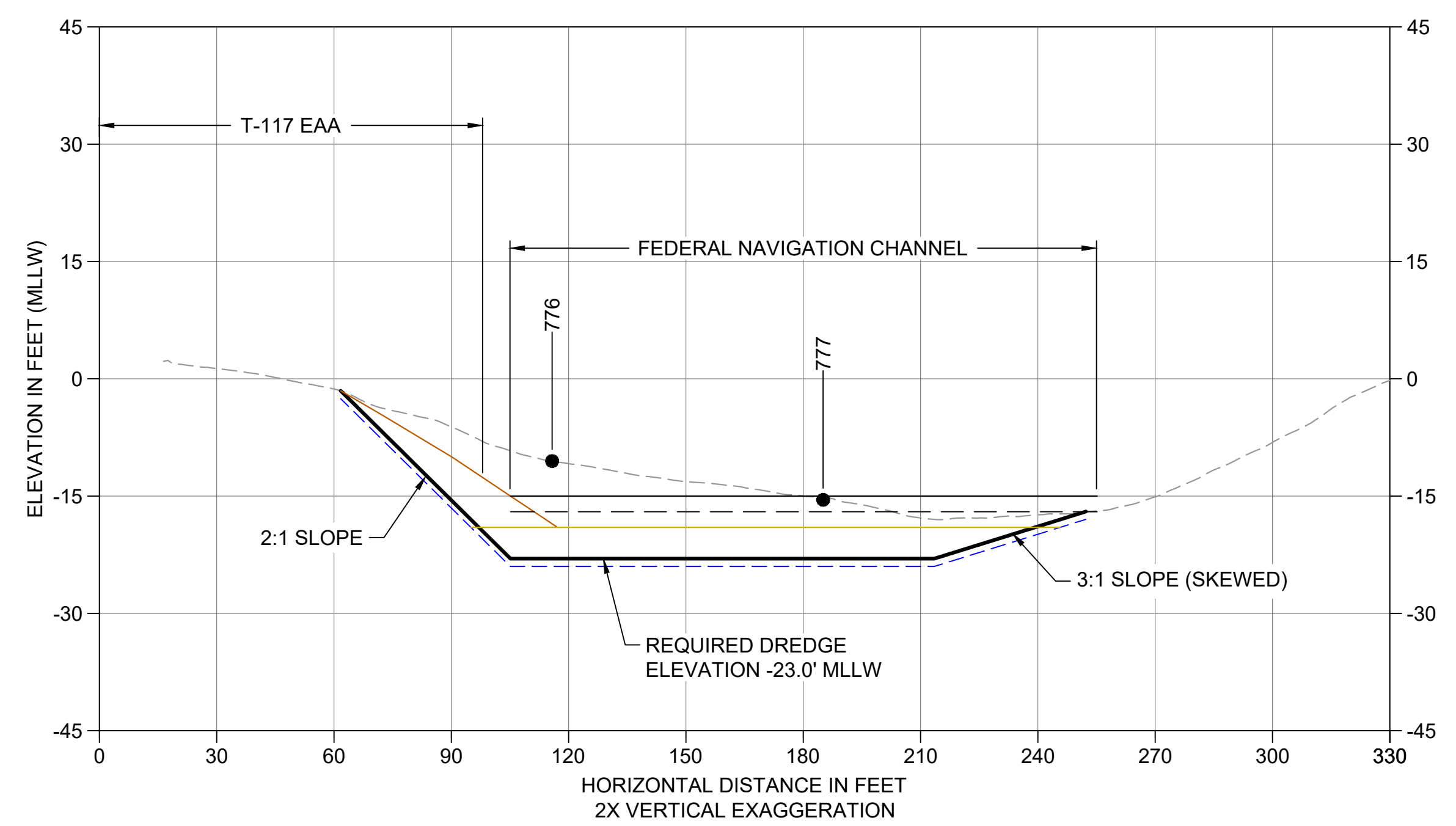
BORDER FILE EDITION: x:\KOVTD\size-TB-Border_ACBM.dwg
 \g:\a\c\p\Projects\0067-King County\LDW\Upper Reach Engineering Services\Construction\Plans\0067-LDWUR-PL-Dredge-Sections.dwg | Layout: C206
 PLOTTED: Jul 21, 2023 - 11:52:54pm By: tgriga



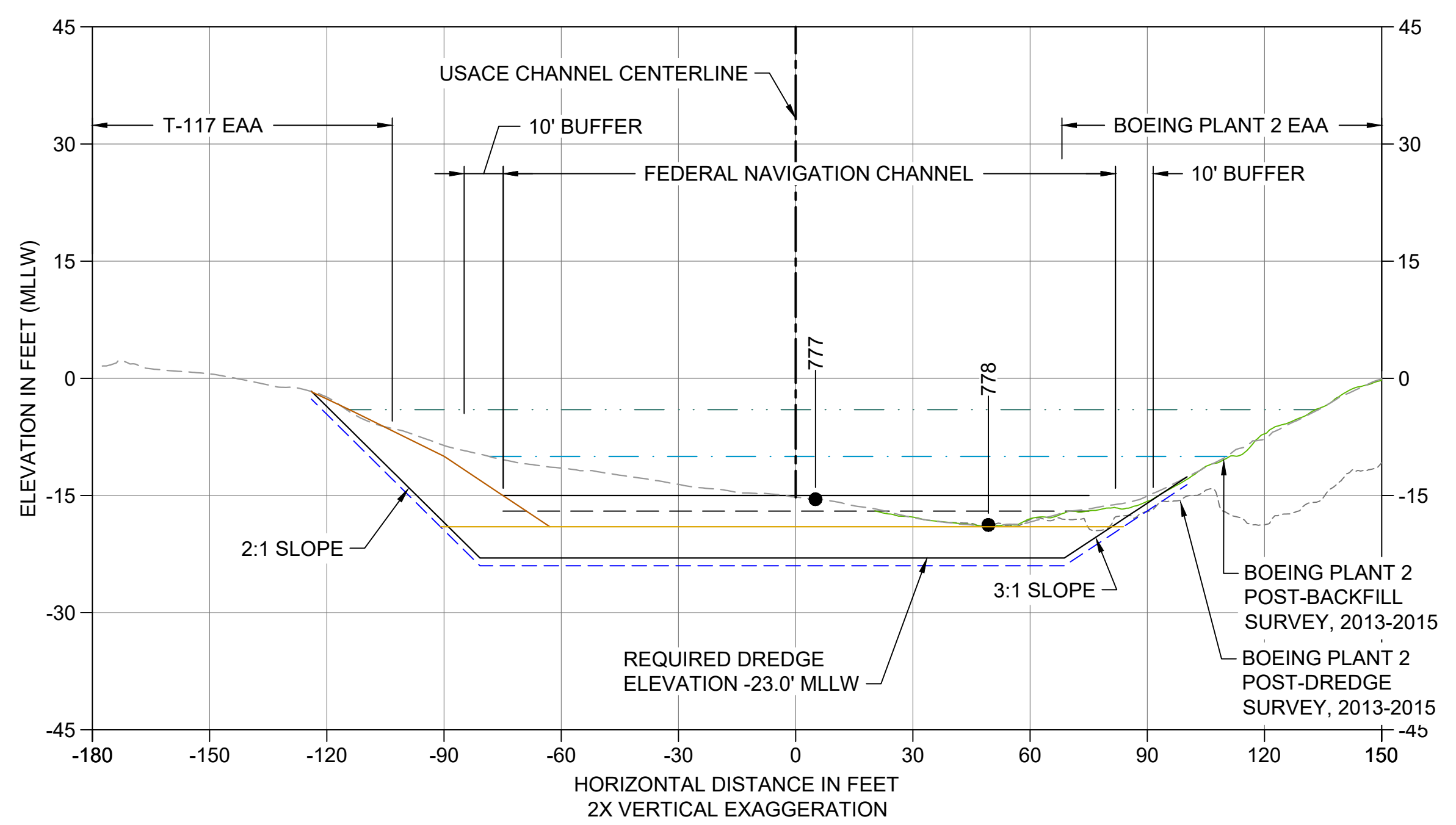
U CROSS SECTION STA 205+50
 C103 HORIZONTAL SCALE: 1" = 30'
 VERTICAL SCALE: 1" = 15'



V CROSS SECTION STA 207+60
 C103 HORIZONTAL SCALE: 1" = 30'
 VERTICAL SCALE: 1" = 15'



W CROSS SECTION STA 217+40
 C105 HORIZONTAL SCALE: 1" = 30'
 VERTICAL SCALE: 1" = 15'



X CROSS SECTION STA 217+80
 C105 HORIZONTAL SCALE: 1" = 30'
 VERTICAL SCALE: 1" = 15'

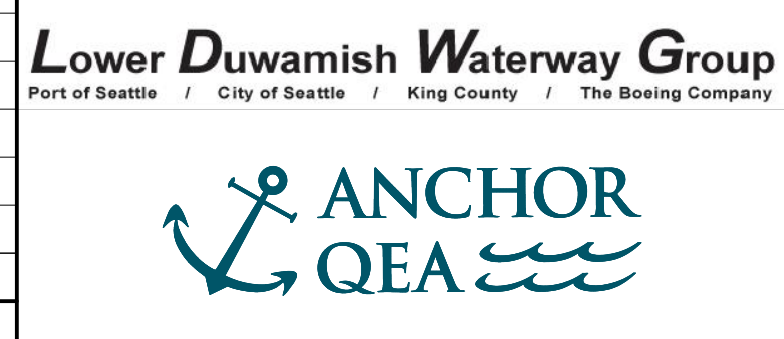
- LEGEND:**
- EXISTING GRADE MERGED DATA
 - USACE AUTHORIZED CHANNEL ELEVATION (-15' MLLW)
 - - - USACE MAINTENANCE ELEVATION (-17' MLLW)
 - · - · - INTERTIDAL/SUBTIDAL TRANSITION (-4' MLLW)
 - · - · - LOWEST HABITAT AREA ELEVATION (-10' MLLW)
 - - - BOEING PLANT 2 POST-DREDGE SURVEY, 2013-2015
 - BOEING PLANT 2 POST-BACKFILL SURVEY, 2013-2015
 - DREDGE DESIGN SURFACE
 - - - 1' ALLOWABLE OVERDREDGE
 - ENGINEERED CAP SURFACE
 - BACKFILL SURFACE
 - VERTICAL SAMPLE LOCATION

- NOTES:**
1. VERTICAL DATUM: MLLW
 2. ENR AND RMC PLACEMENT NOT SHOWN ON CROSS SECTIONS. SEE DETAILS 1 AND 3/C304.

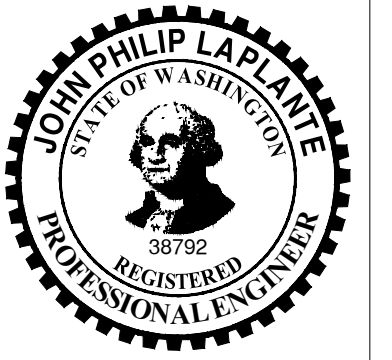
COLOR IMAGE
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NO	REVISION DESCRIPTION	BY	APVD	DATE



PRE-FINAL ISSUE DRAWING
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 JULY 2023



DESIGNED/DRAWN: K. GROSS
 PROJECT ENGINEER: J. LAPLANTE
 DESIGN APPROVAL: T. WANG
 PROJECT ACCEPTANCE: PRJCT MNGR

CHECKED: BIGSBY/GRIGA
 SCALE: AS NOTED
 PROJECT FILE NO: E00559E18
 CONTRACT NO: C0XXXXCX

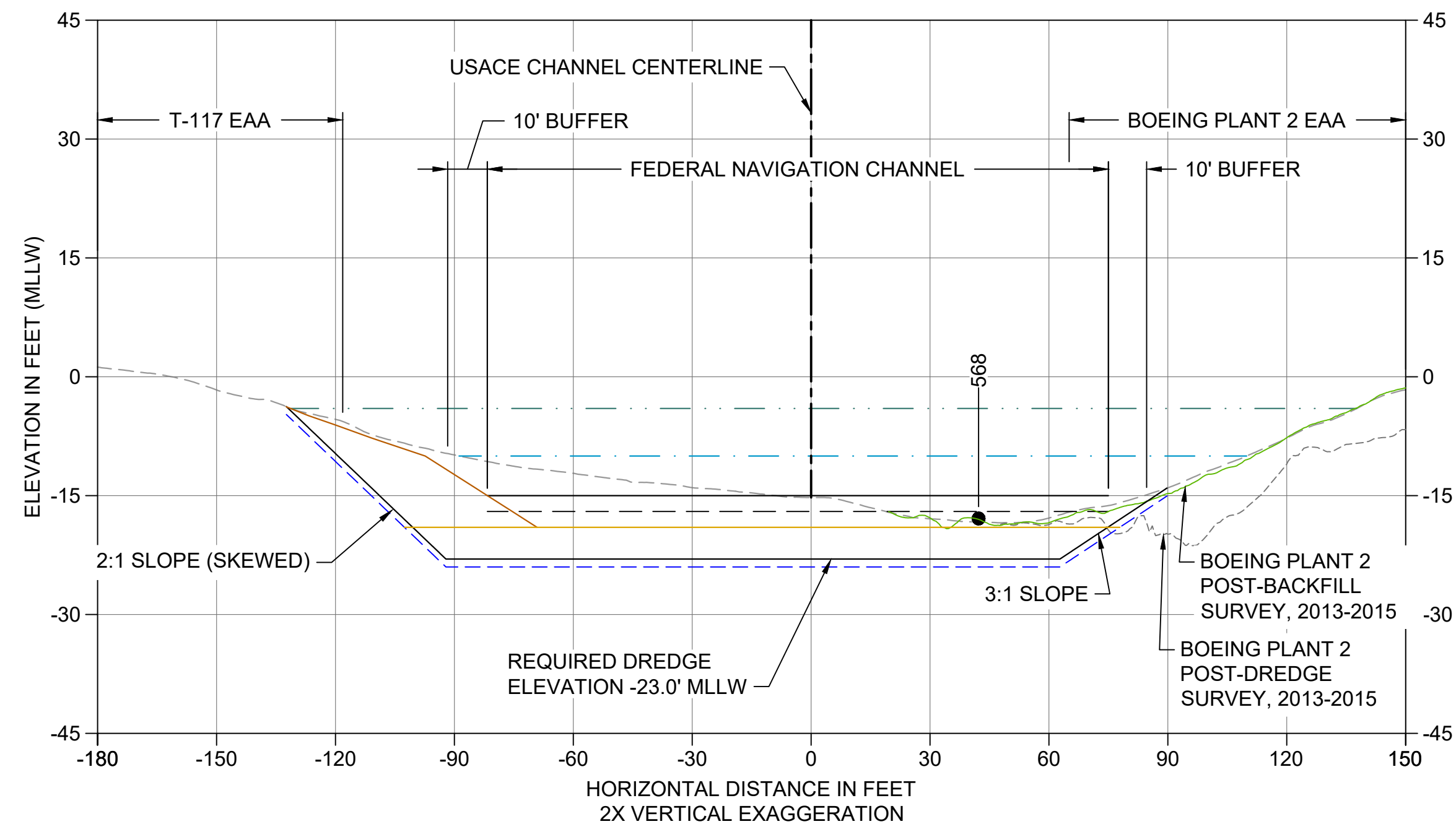


DEPARTMENT OF NATURAL RESOURCES & PARKS
 WASTEWATER TREATMENT DIVISION
 LOWER DUWAMISH WATERWAY UPPER REACH
 SEDIMENT CLEANUP

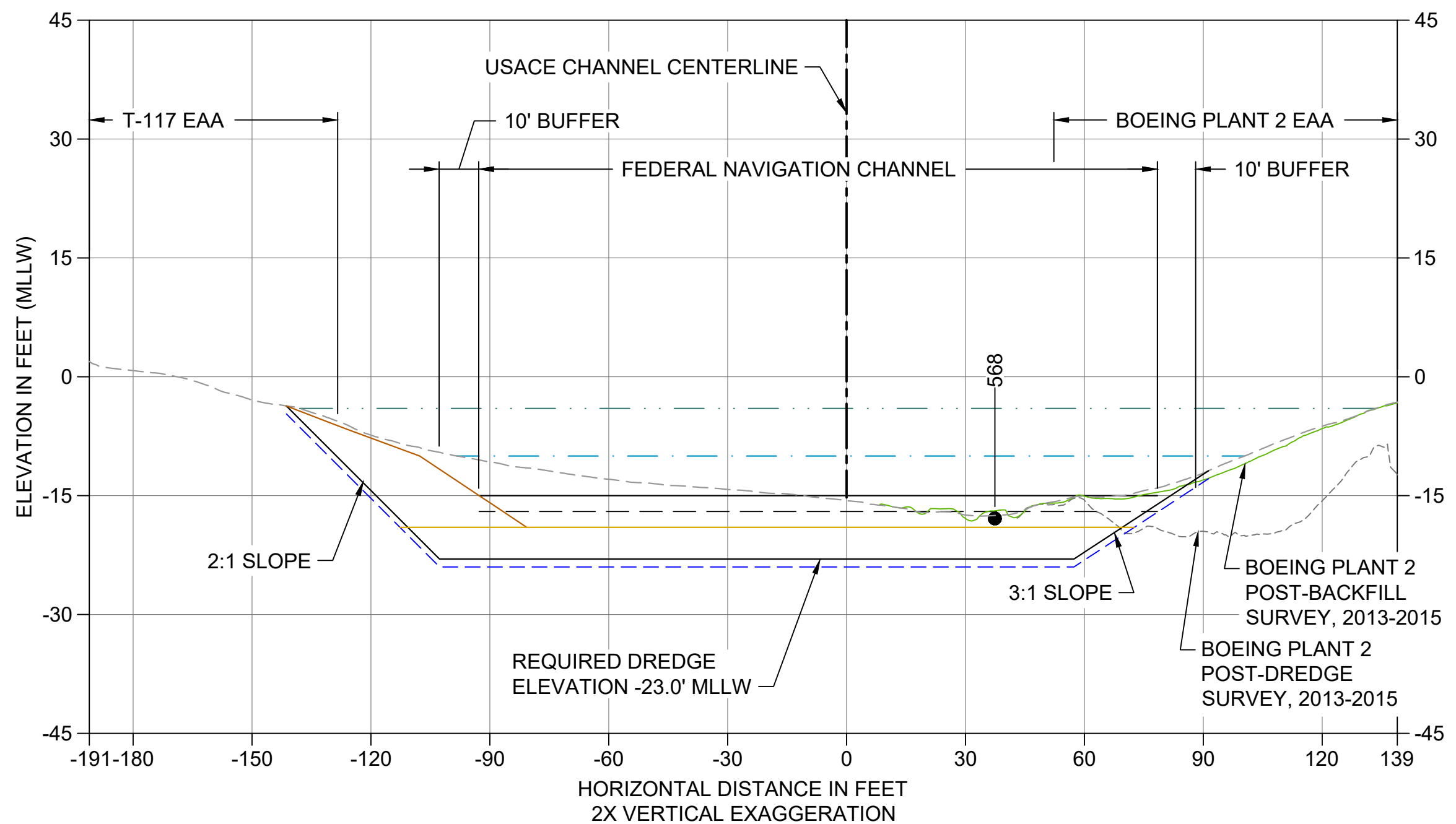
CROSS SECTION (6 OF 15)

DATE: JULY 2023
 DRAWING NO: **C206**
 SHT NO / TOTAL: 59 / 87
 REV NO: **0**

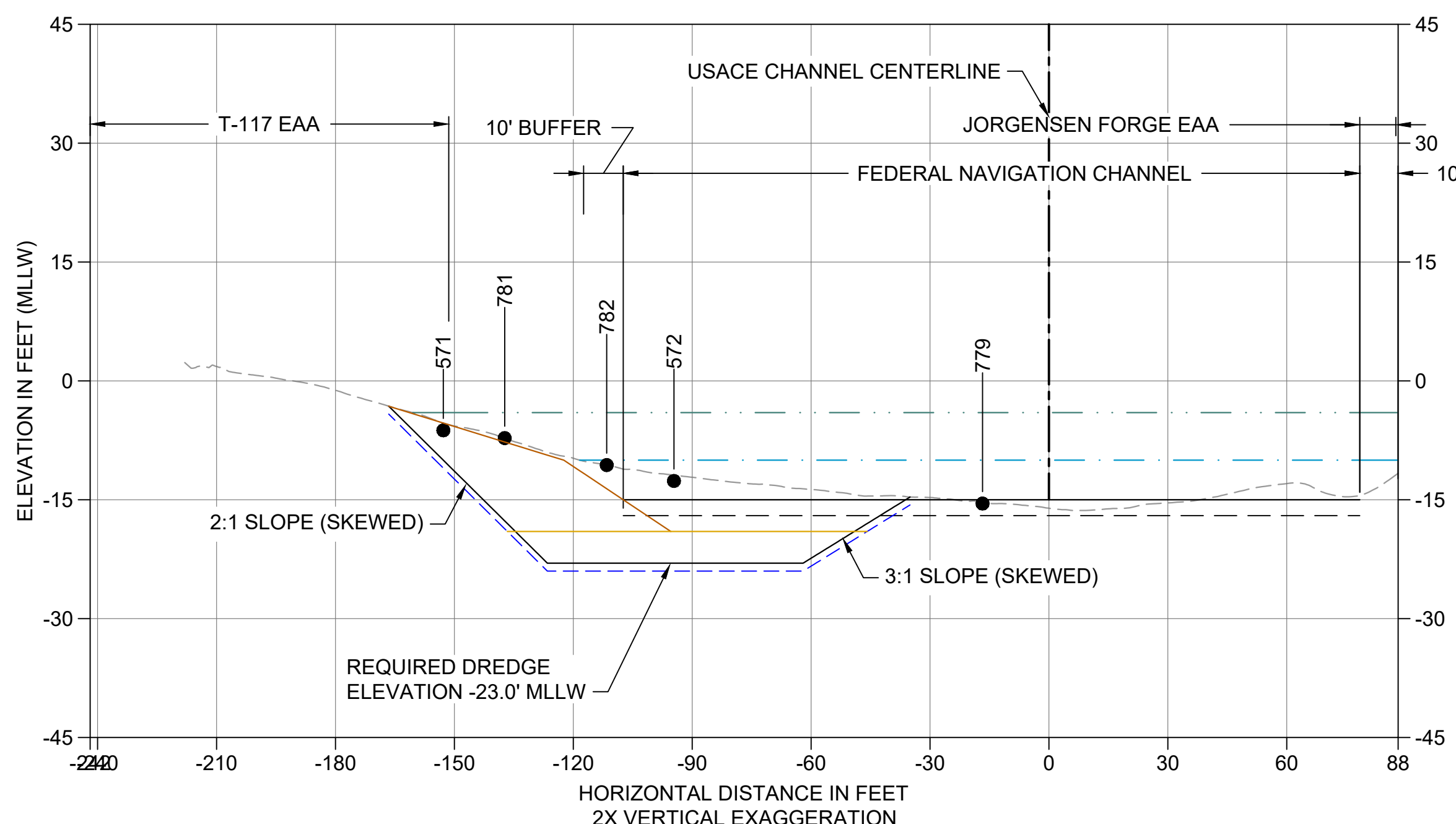
BORDER FILE EDITION: x:\KOV\TD-Size-TB-Border_ACBM\Layer_Vgala\CAD\Projects\0067-King County\LDW\Upper Reach Engineering Services\Construction Plans\0067-LDWUR-PL-Dredge-Sections.dwg | Layout: C207
 PLOTTED: Jul 21, 2023 - 11:53:18pm By: tgriga



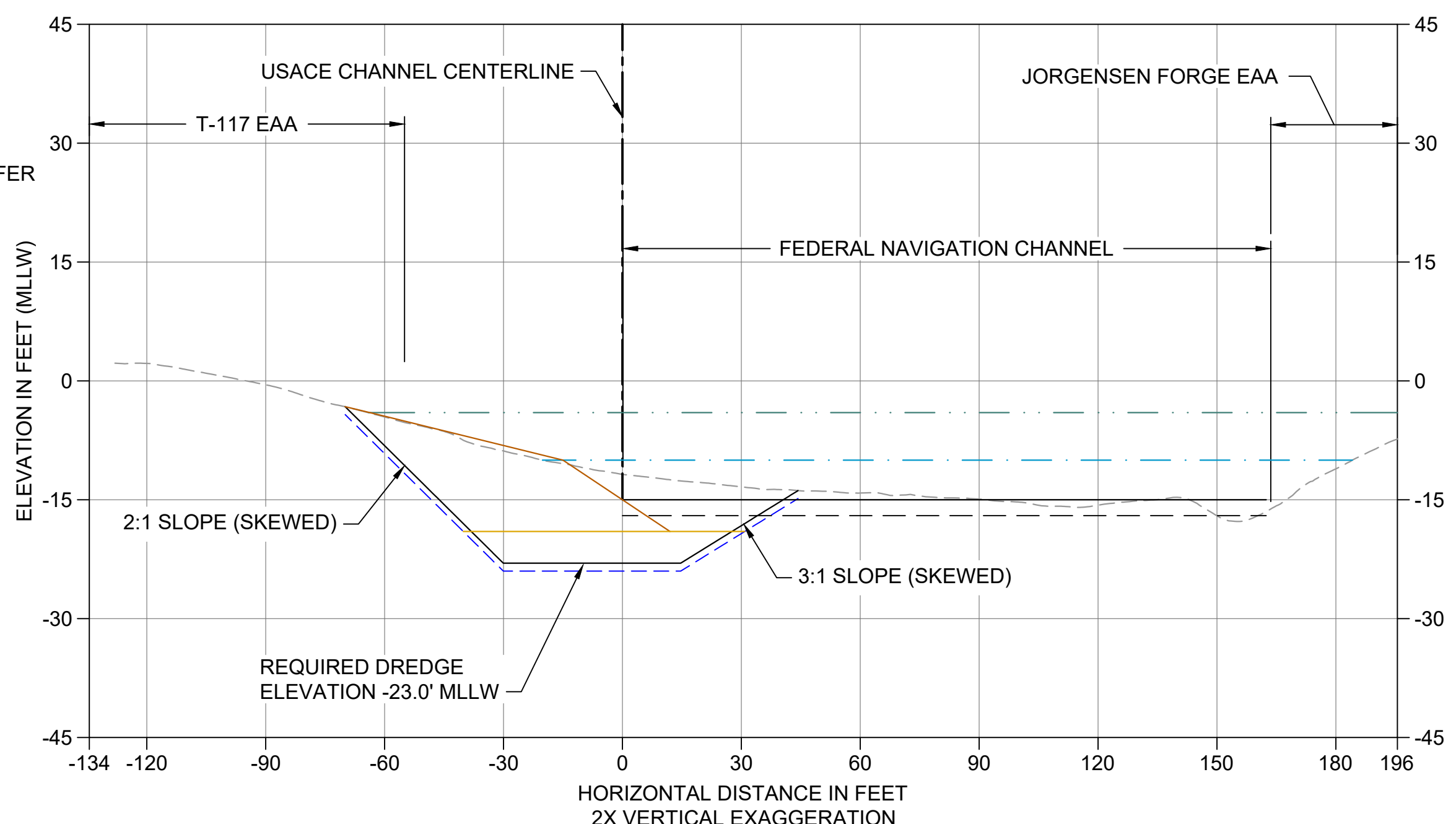
Y CROSS SECTION STA 218+30
 C105 HORIZONTAL SCALE: 1" = 30'
 VERTICAL SCALE: 1" = 10'



Z CROSS SECTION STA 218+80
 C105 HORIZONTAL SCALE: 1" = 30'
 VERTICAL SCALE: 1" = 10'



AA CROSS SECTION STA 219+70
 C105 HORIZONTAL SCALE: 1" = 30'
 VERTICAL SCALE: 1" = 10'



AB CROSS SECTION STA 220+50
 C105 HORIZONTAL SCALE: 1" = 30'
 VERTICAL SCALE: 1" = 15'

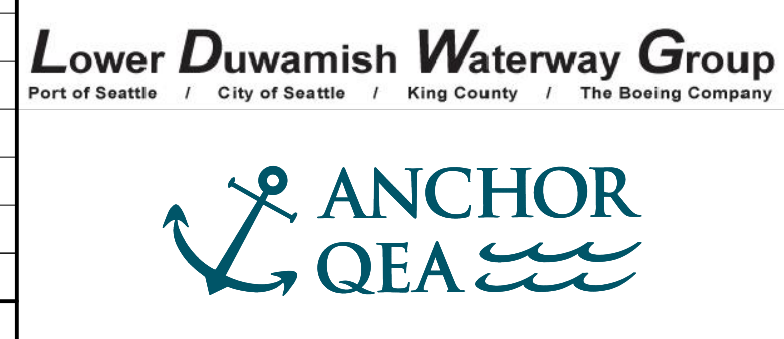
- LEGEND:**
- EXISTING GRADE MERGED DATA
 - USACE AUTHORIZED CHANNEL ELEVATION (-15' MLLW)
 - USACE MAINTENANCE ELEVATION (-17' MLLW)
 - INTERTIDAL/SUBTIDAL TRANSITION (-4' MLLW)
 - LOWEST HABITAT AREA ELEVATION (-10' MLLW)
 - BOEING PLANT 2 POST-DREDGE SURVEY, 2013-2015
 - BOEING PLANT 2 POST-BACKFILL SURVEY, 2013-2015
 - DREDGE DESIGN SURFACE
 - 1' ALLOWABLE OVERDREDGE
 - ENGINEERED CAP SURFACE
 - BACKFILL SURFACE
 - VERTICAL SAMPLE LOCATION

- NOTES:**
1. VERTICAL DATUM: MLLW
 2. ENR AND RMC PLACEMENT NOT SHOWN ON CROSS SECTIONS. SEE DETAILS 1 AND 3/C304.

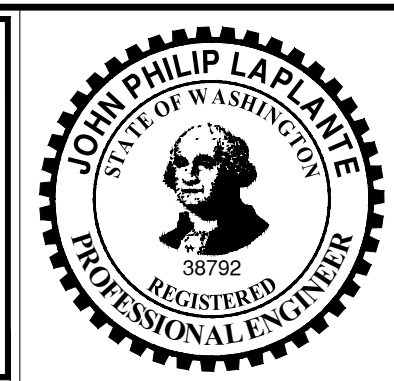
COLOR IMAGE
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NOT FOR BIDDING

NO	REVISION DESCRIPTION	BY	APVD	DATE



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 JULY 2023



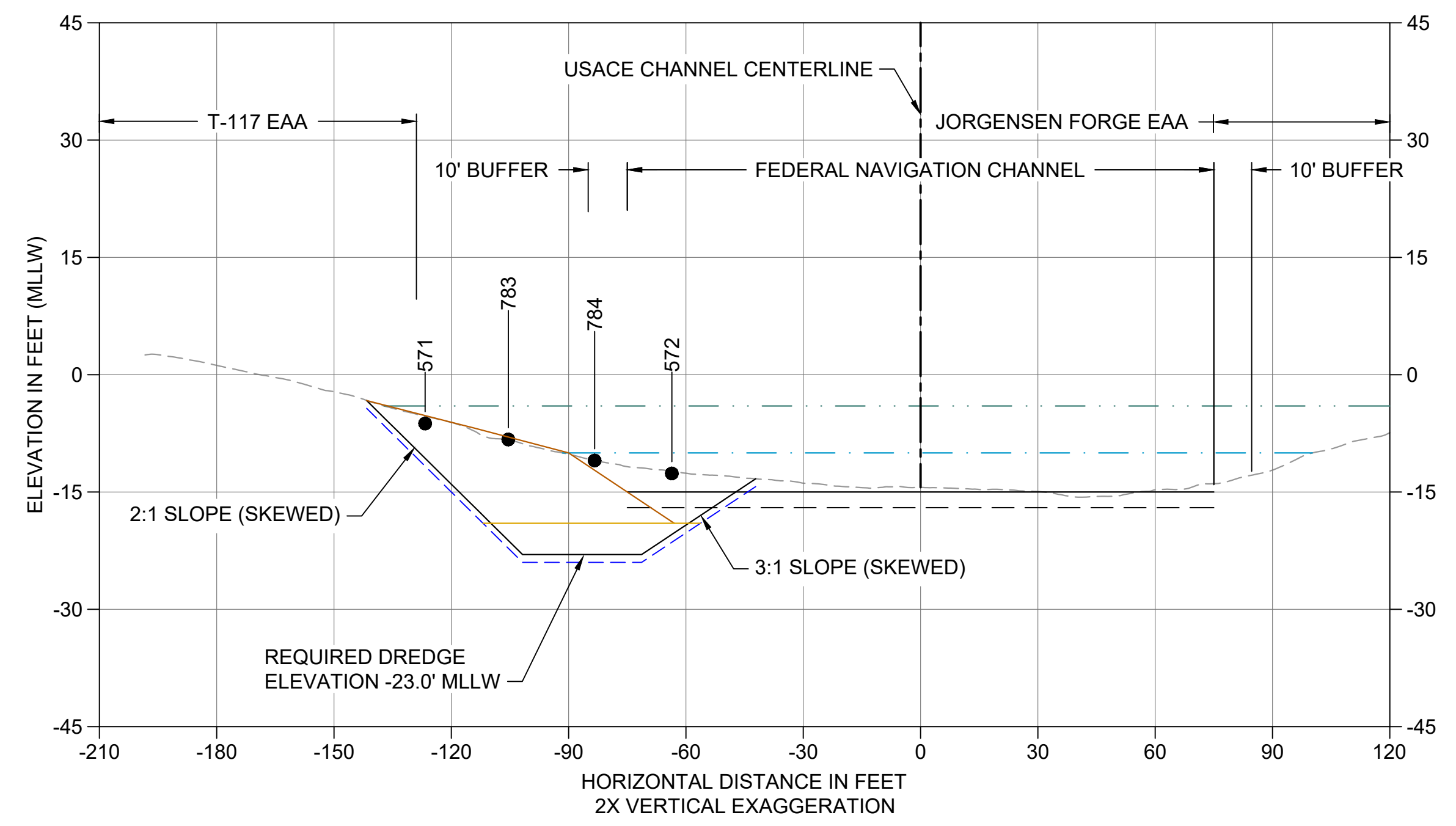
DESIGNED/DRAWN: K. GROSS
 PROJECT ENGINEER: J. LAPLANTE
 DESIGN APPROVAL: T. WANG
 PROJECT ACCEPTANCE: PRJCT MNGR



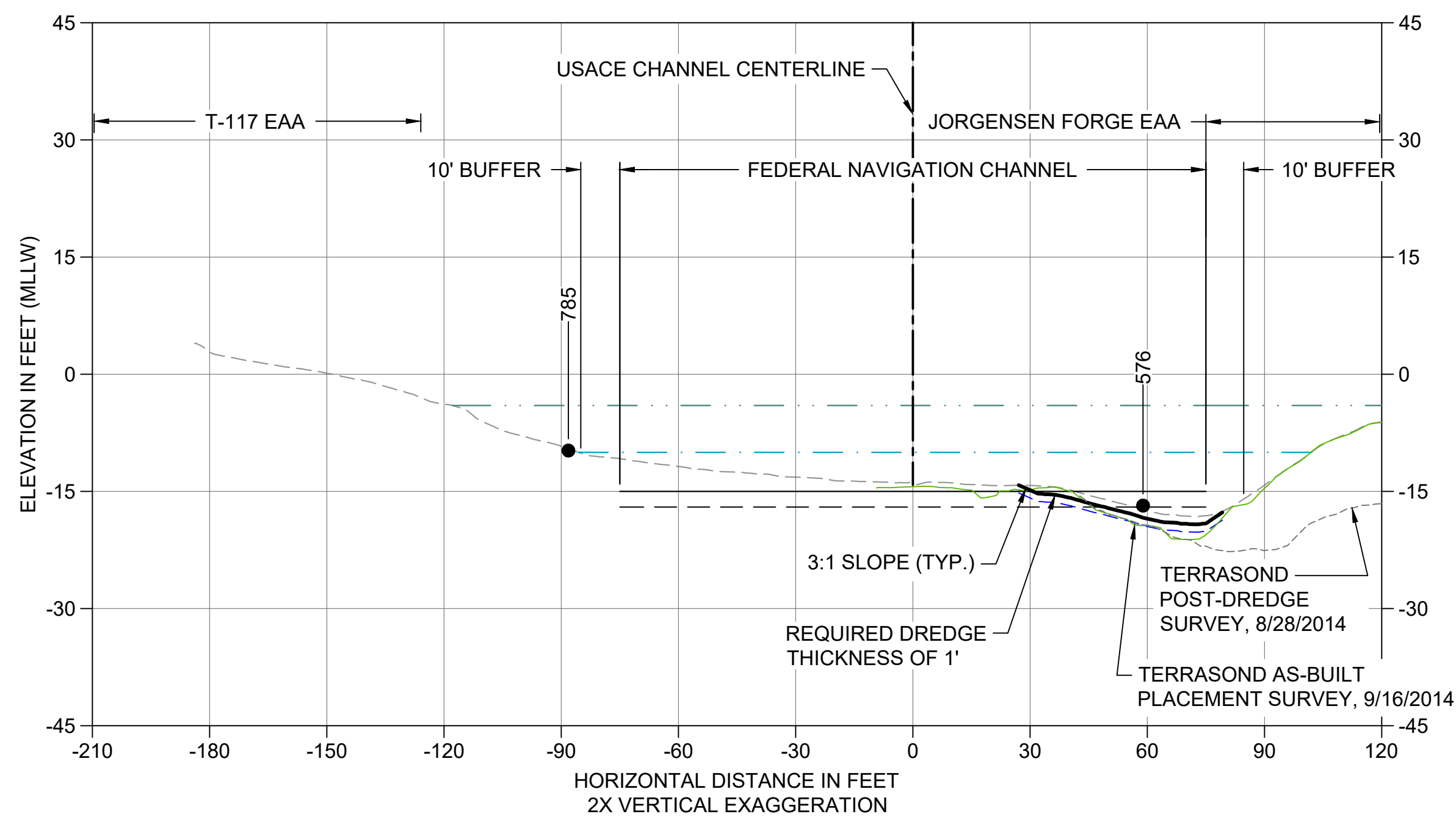
DEPARTMENT OF NATURAL RESOURCES & PARKS
 WASTEWATER TREATMENT DIVISION
 LOWER DUWAMISH WATERWAY UPPER REACH
 SEDIMENT CLEANUP
CROSS SECTION (7 OF 15)

DATE: JULY 2023
 DRAWING NO: **C207**
 SHT NO / TOTAL: 60 / 87
 REV NO: **0**

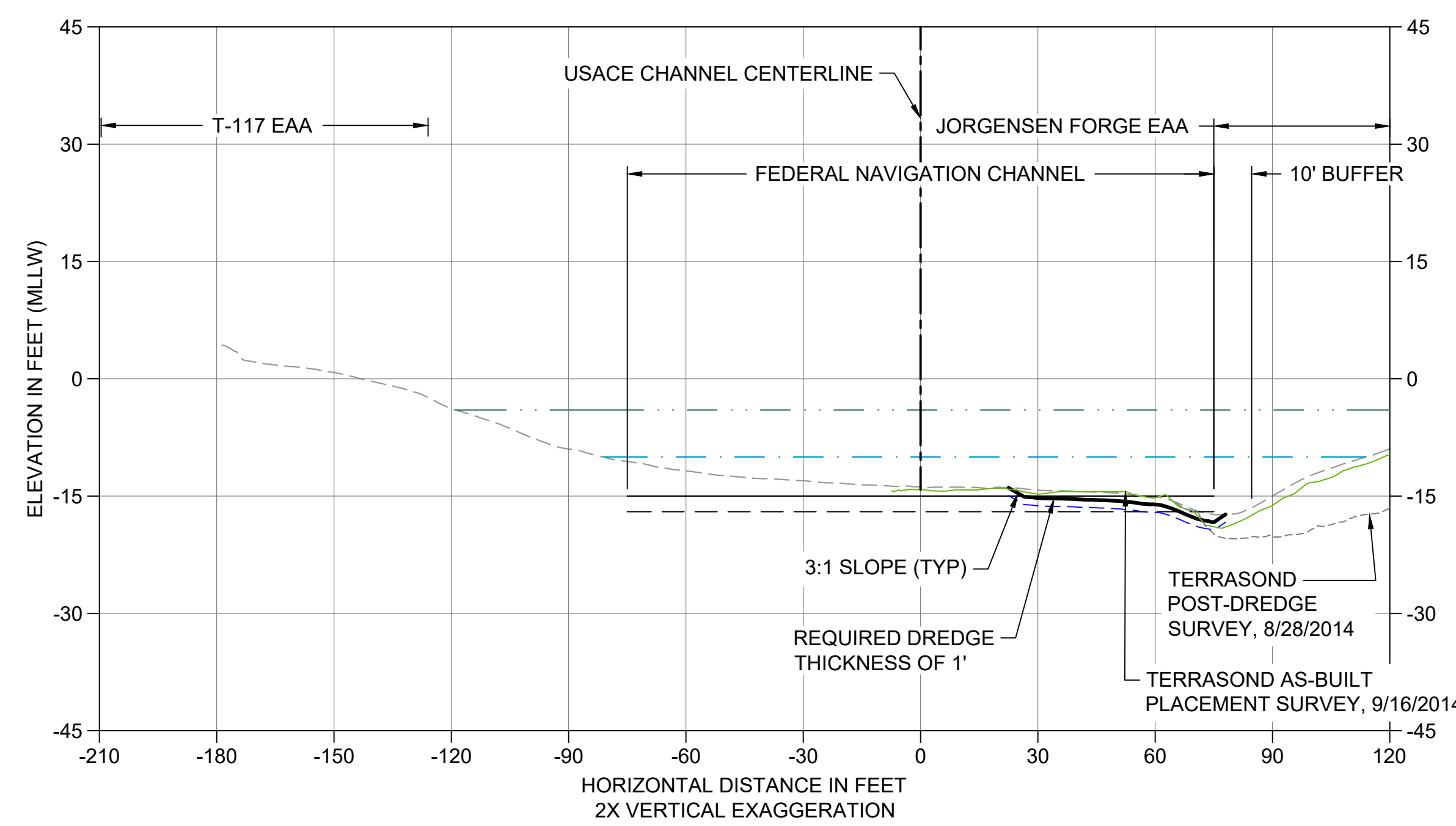
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 \gial\CAD\Projects\0067-King County\LDW\Upper Reach Engineering Services\Construction\Plans\0067-LDWUR-PL-Dredge-Sections.dwg | Layout: C208
 PLOTTED: Jul 21, 2023 - 11:53:42pm By: tgriga



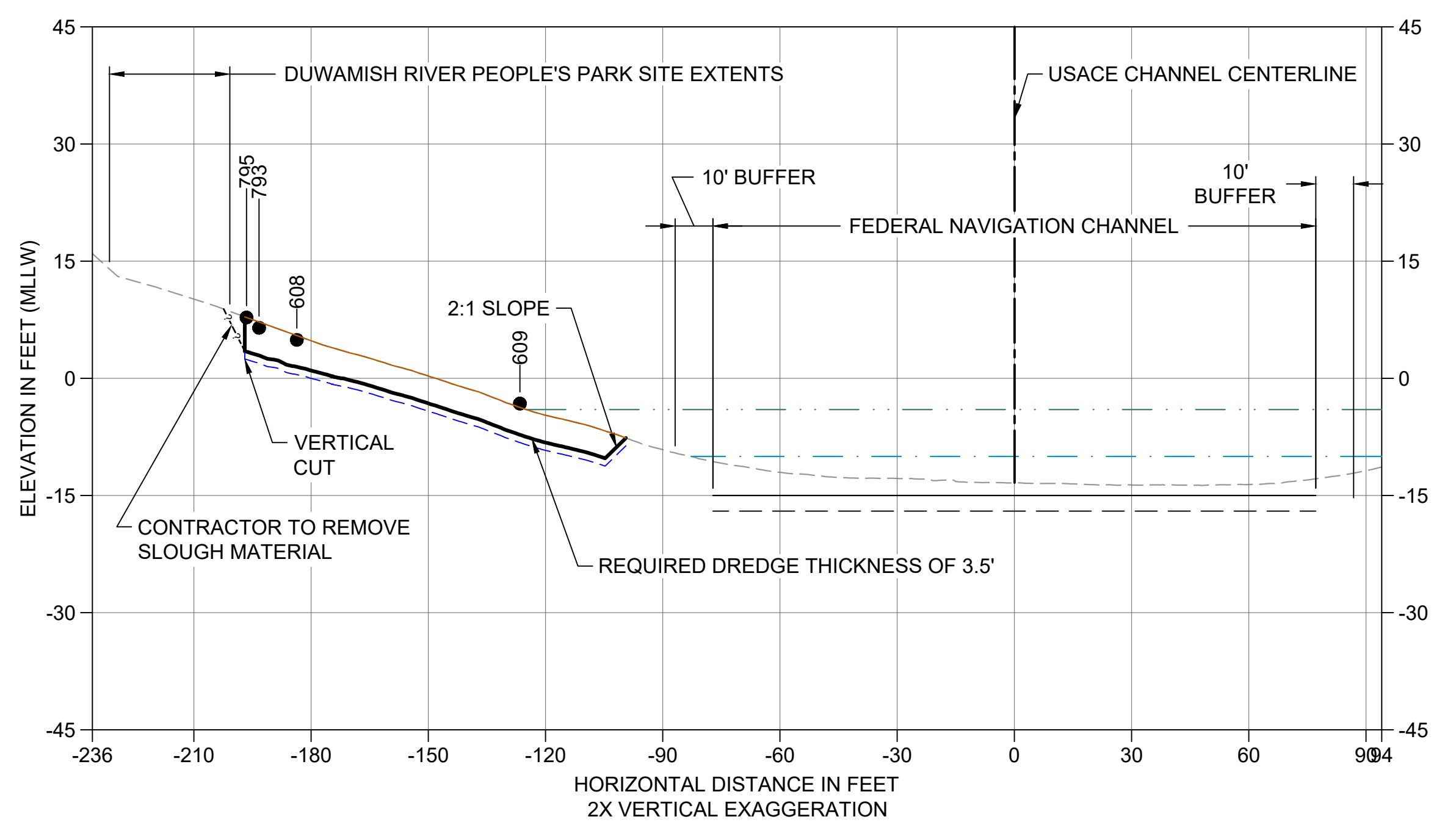
AC CROSS SECTION STA 221+30
 C105 HORIZONTAL SCALE: 1" = 30'
 VERTICAL SCALE: 1" = 15'



AD CROSS SECTION STA 222+70
 C105 HORIZONTAL SCALE: 1" = 30'
 VERTICAL SCALE: 1" = 15'



AE CROSS SECTION STA 223+00
 C105 HORIZONTAL SCALE: 1" = 30'
 VERTICAL SCALE: 1" = 15'



AF CROSS SECTION STA 228+48
 C106 HORIZONTAL SCALE: 1" = 30'
 VERTICAL SCALE: 1" = 15'

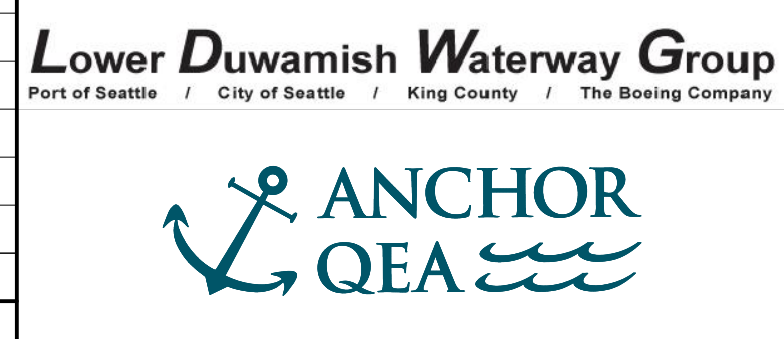
- LEGEND:**
- EXISTING GRADE MERGED DATA
 - USACE AUTHORIZED CHANNEL ELEVATION (-15' MLLW)
 - - - USACE MAINTENANCE ELEVATION (-17' MLLW)
 - · - · - INTERTIDAL/SUBTIDAL TRANSITION (-4' MLLW)
 - · - · - LOWEST HABITAT AREA ELEVATION (-10' MLLW)
 - - - BOEING PLANT 2 POST-DREDGE SURVEY, 2013-2015
 - BOEING PLANT 2 POST-BACKFILL SURVEY, 2013-2015
 - DREDGE DESIGN SURFACE
 - - - 1' ALLOWABLE OVERDREDGE
 - ENGINEERED CAP SURFACE
 - BACKFILL SURFACE
 - VERTICAL SAMPLE LOCATION

- NOTES:**
1. VERTICAL DATUM: MLLW
 2. ENR AND RMC PLACEMENT NOT SHOWN ON CROSS SECTIONS. SEE DETAILS 1 AND 3/C304.

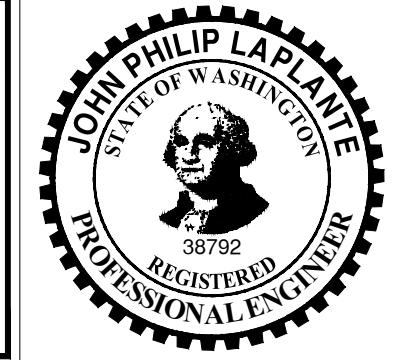
COLOR IMAGE
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 ACCURATELY.

NOT FOR BIDDING

NO	REVISION DESCRIPTION	BY	APVD	DATE



PRE-FINAL ISSUE DRAWING
 INFORMATION ONLY
90% DRAFT
 JULY 2023



DESIGNED/DRAWN: K. GROSS
 PROJECT ENGINEER: J. LAPLANTE
 DESIGN APPROVAL: T. WANG
 PROJECT ACCEPTANCE: PRJCT MNGR

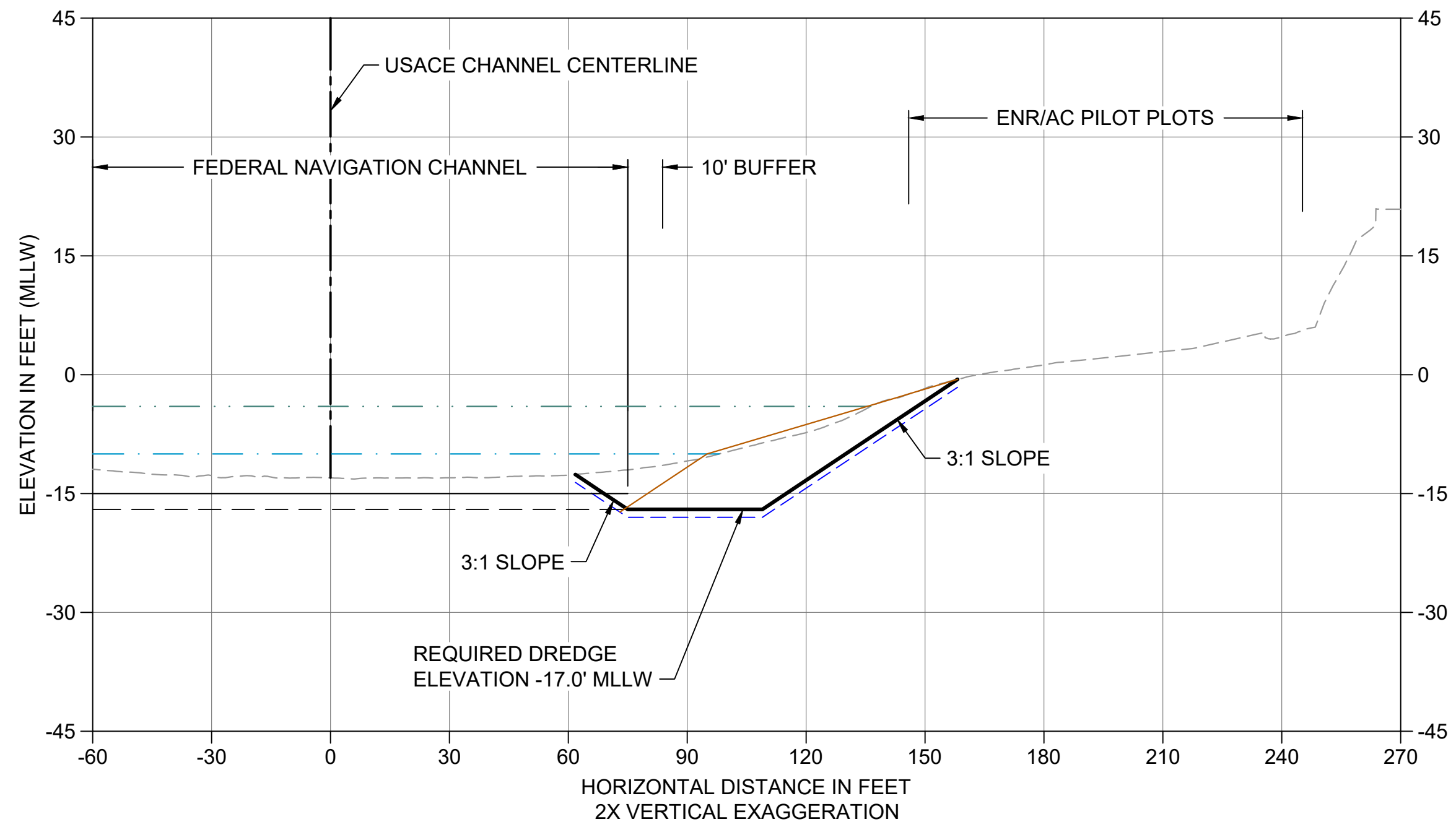
CHECKED: BIGSBY/GRIGA
 SCALE: AS NOTED
 PROJECT FILE NO: E00559E18
 CONTRACT NO: C0XXXXCX



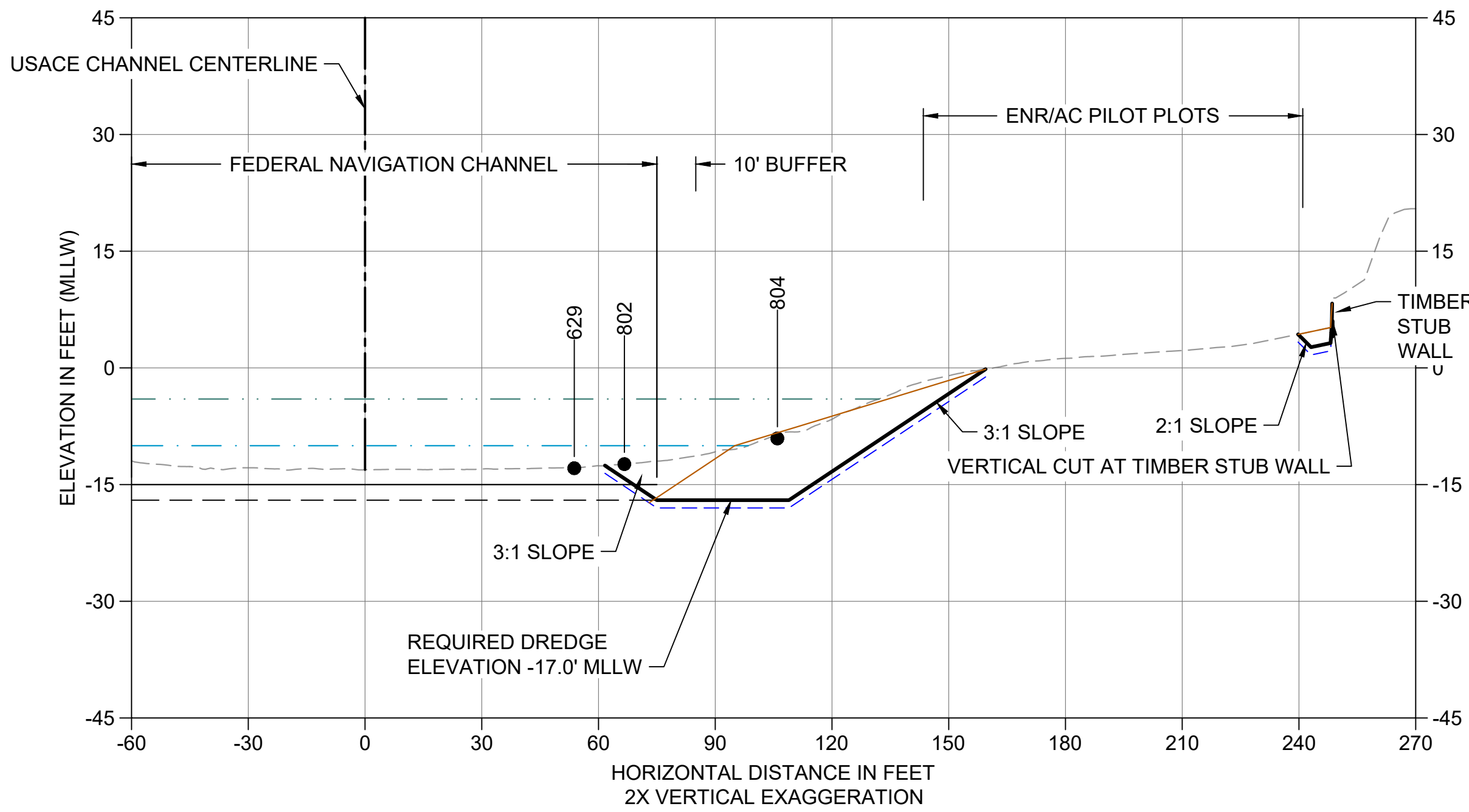
DEPARTMENT OF NATURAL RESOURCES & PARKS
 WASTEWATER TREATMENT DIVISION
 LOWER DUWAMISH WATERWAY UPPER REACH
 SEDIMENT CLEANUP
CROSS SECTION (8 OF 15)

DATE: JULY 2023
 DRAWING NO: **C208**
 SHEET NO / TOTAL: 61 / 87
 REV NO: **0**

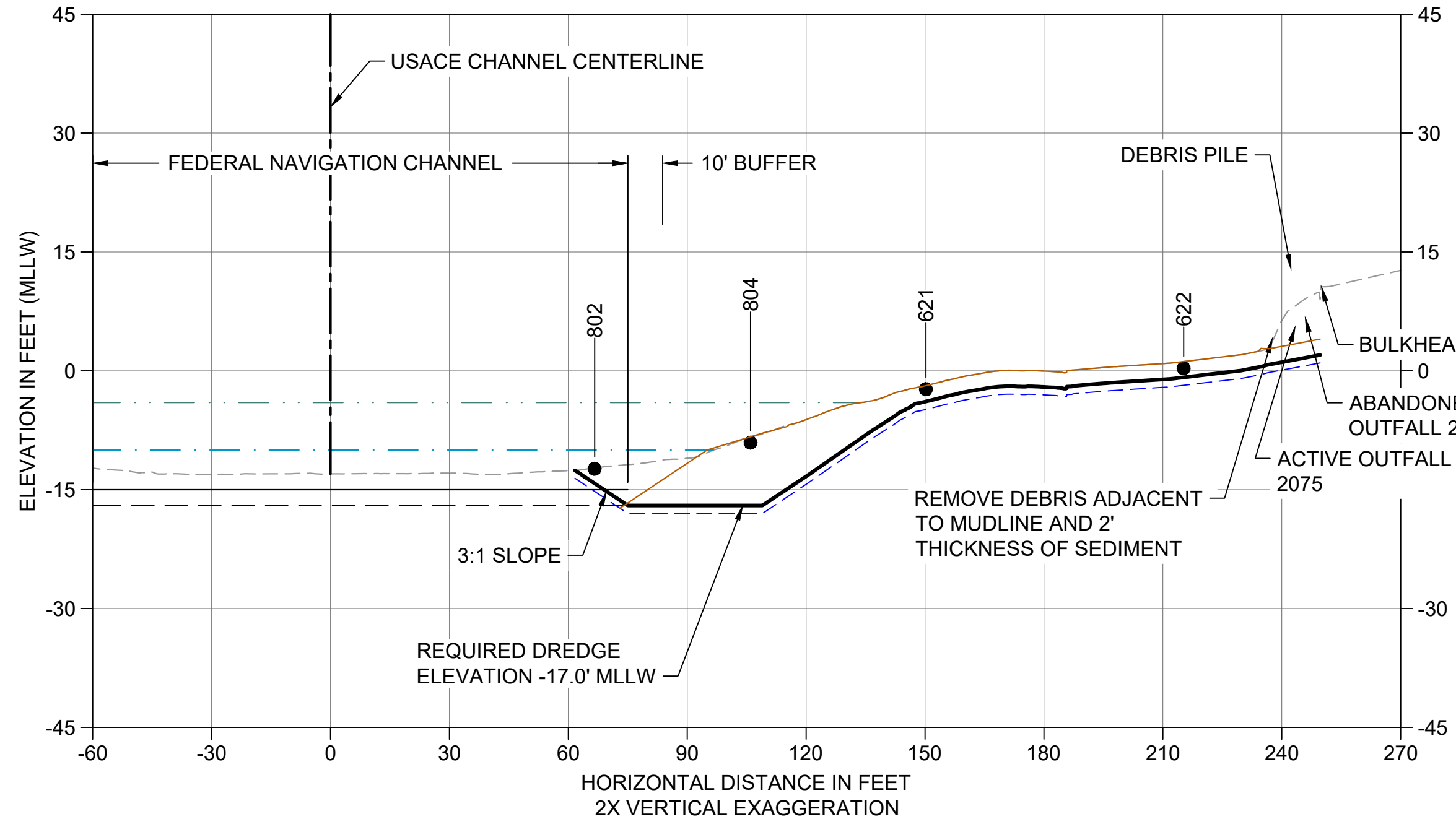
BORDER FILE EDITION: x:\KOVTD\Size-TB-Border_ACBM_Layer
 \gial\CAD\Projects\0067-King County\LDW\Upper Reach Engineering Services\Construction Plans\0067-LDWUR-PL-Dredge-Sections.dwg | Layout: C209
 PLOTTED: Jul 23, 2023 - 11:28:34pm By: tgriga



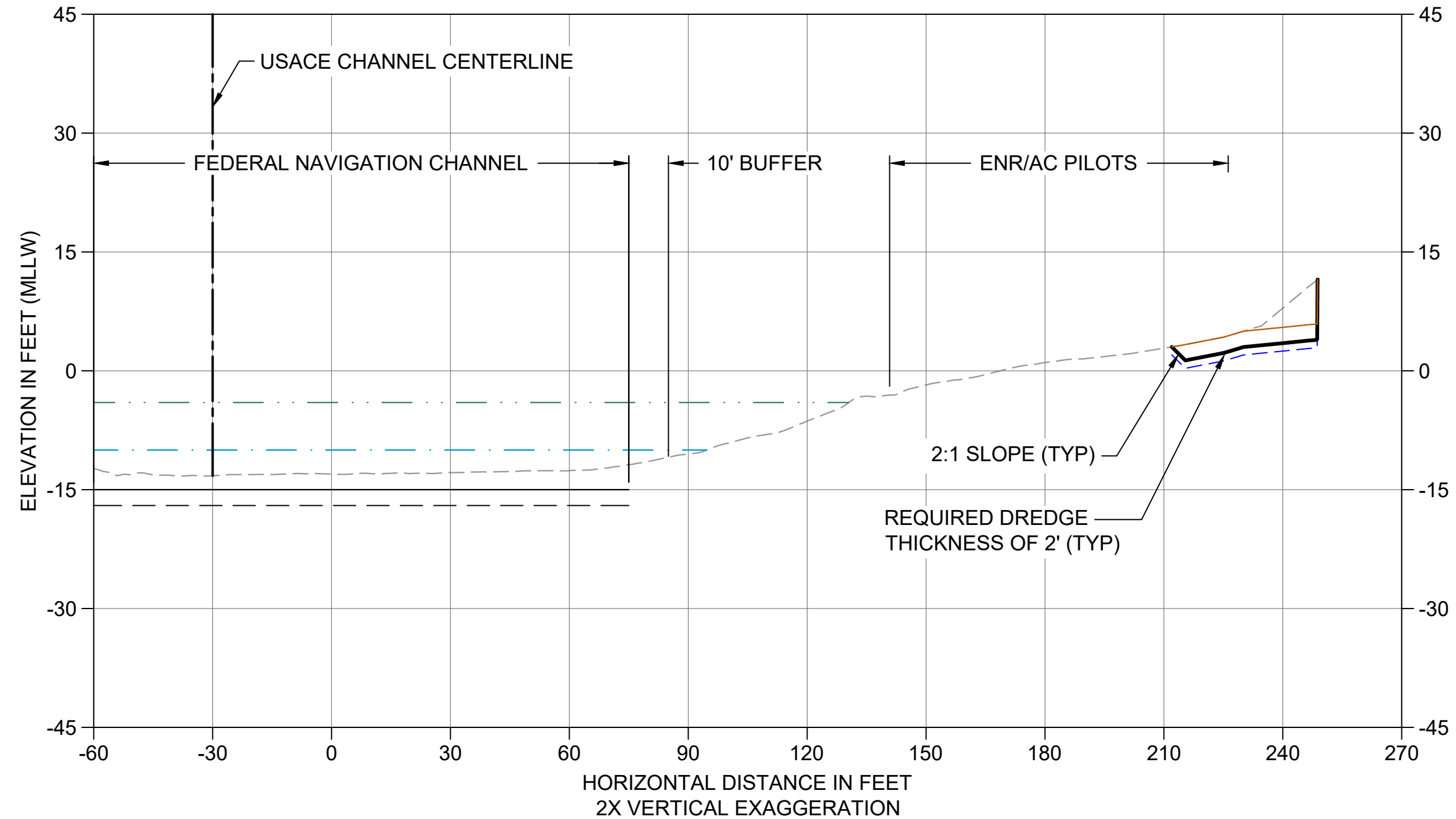
AG CROSS SECTION STA 231+60
 C106 HORIZONTAL SCALE: 1" = 30'
 VERTICAL SCALE: 1" = 15'



AH CROSS SECTION STA 233+00
 C107 HORIZONTAL SCALE: 1" = 30'
 VERTICAL SCALE: 1" = 15'



AI CROSS SECTION STA 233+90
 C107 HORIZONTAL SCALE: 1" = 30'
 VERTICAL SCALE: 1" = 15'



AJ CROSS SECTION STA 234+80
 C107 HORIZONTAL SCALE: 1" = 30'
 VERTICAL SCALE: 1" = 15'

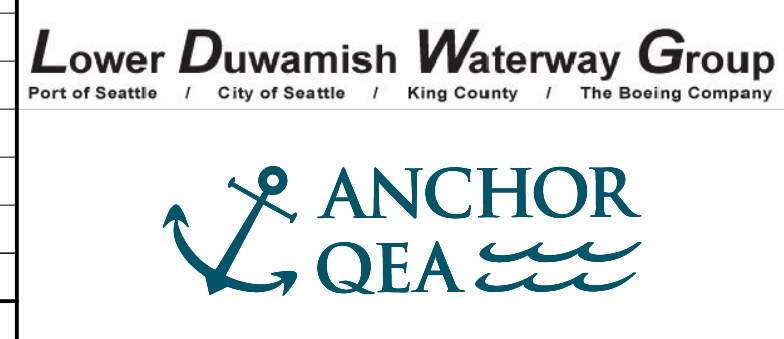
- LEGEND:**
- EXISTING GRADE MERGED DATA
 - USACE AUTHORIZED CHANNEL ELEVATION (-15' MLLW)
 - USACE MAINTENANCE ELEVATION (-17' MLLW)
 - INTERTIDAL/SUBTIDAL TRANSITION (-4' MLLW)
 - LOWEST HABITAT AREA ELEVATION (-10' MLLW)
 - BOEING PLANT 2 POST-DREDGE SURVEY, 2013-2015
 - BOEING PLANT 2 POST-BACKFILL SURVEY, 2013-2015
 - DREDGE DESIGN SURFACE
 - 1' ALLOWABLE OVERDREDGE
 - ENGINEERED CAP SURFACE
 - BACKFILL SURFACE
 - VERTICAL SAMPLE LOCATION

- NOTES:**
1. VERTICAL DATUM: MLLW
 2. ENR AND RMC PLACEMENT NOT SHOWN ON CROSS SECTIONS. SEE DETAILS 1 AND 3/C304.

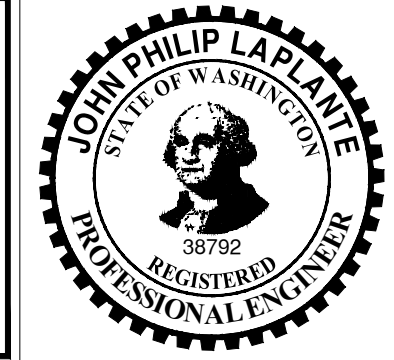
COLOR IMAGE
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NOT FOR BIDDING

NO	REVISION DESCRIPTION	BY	APVD	DATE



PRE-FINAL ISSUE DRAWING
INFORMATION ONLY
90% DRAFT
 JULY 2023



DESIGNED/DRAWN: K. GROSS
 PROJECT ENGINEER: J. LAPLANTE
 DESIGN APPROVAL: T. WANG
 PROJECT ACCEPTANCE: PRJCT MNGR

CHECKED: BIGSBY/GRIGA
 SCALE: AS NOTED
 PROJECT FILE NO: E00559E18
 CONTRACT NO: C0XXXXCX

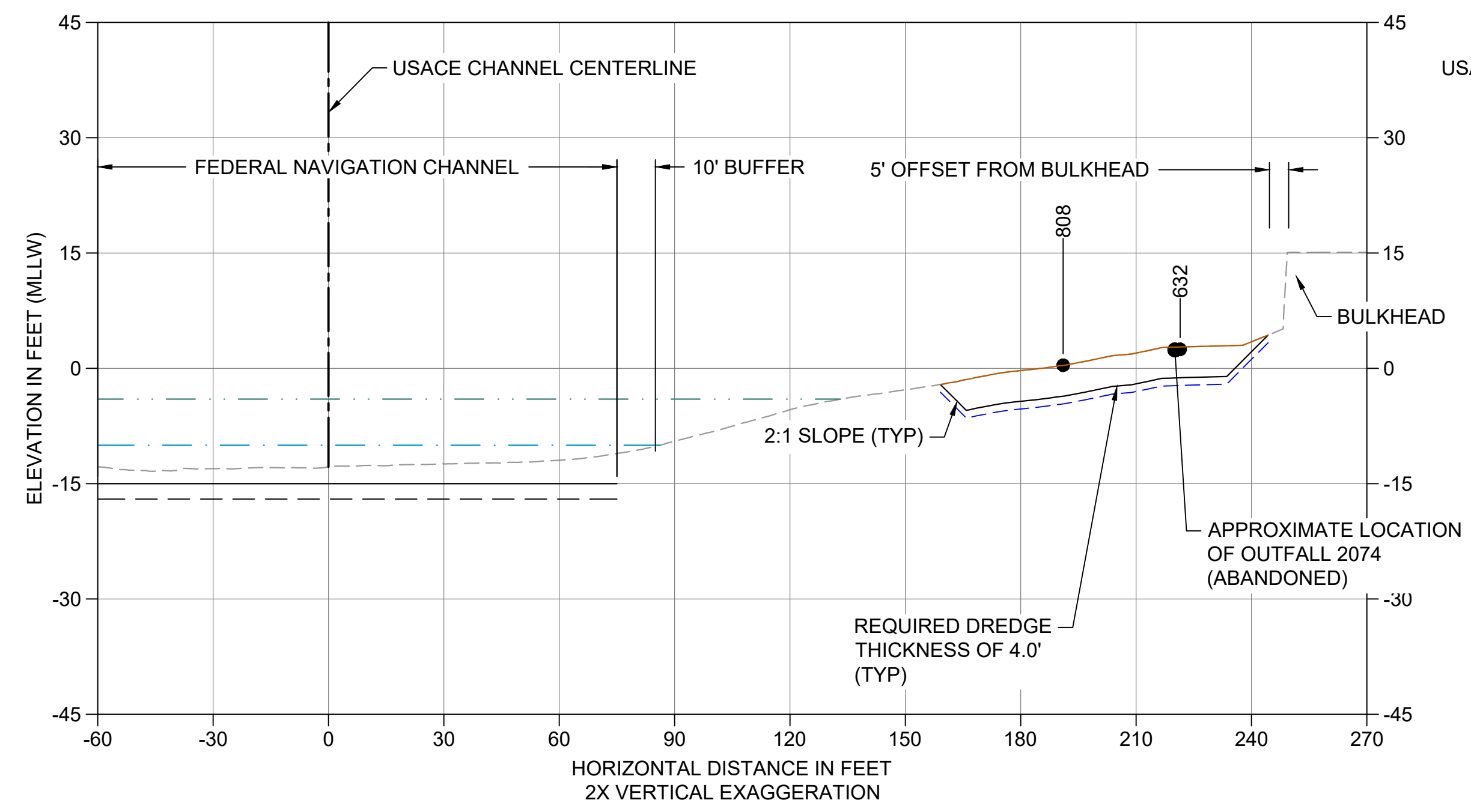


DEPARTMENT OF NATURAL RESOURCES & PARKS
 WASTEWATER TREATMENT DIVISION
 LOWER DUWAMISH WATERWAY UPPER REACH
 SEDIMENT CLEANUP

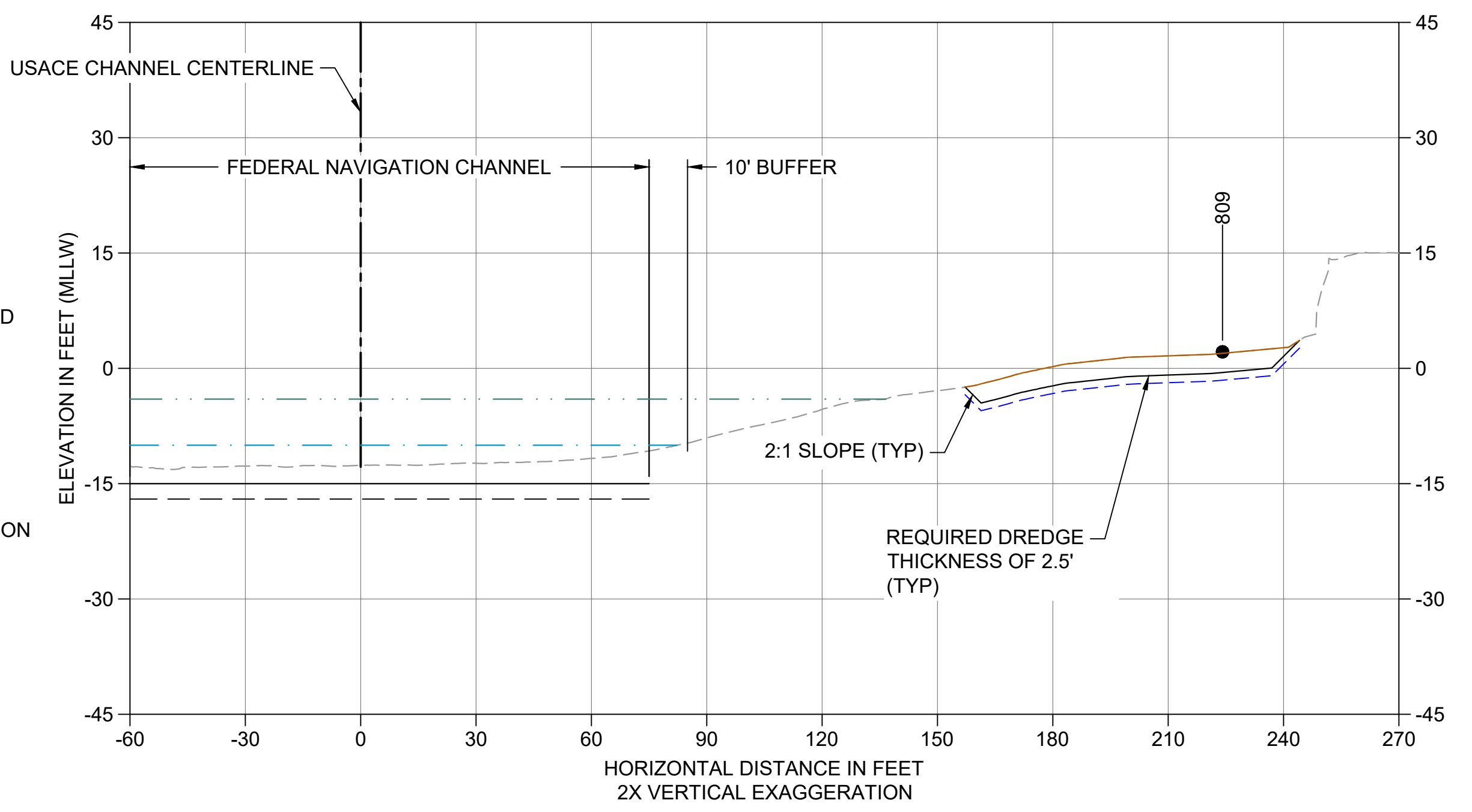
CROSS SECTION (9 OF 15)

DATE: JULY 2023
 DRAWING NO: **C209**
 SHT NO / TOTAL: 62 / 87
 REV NO: **0**

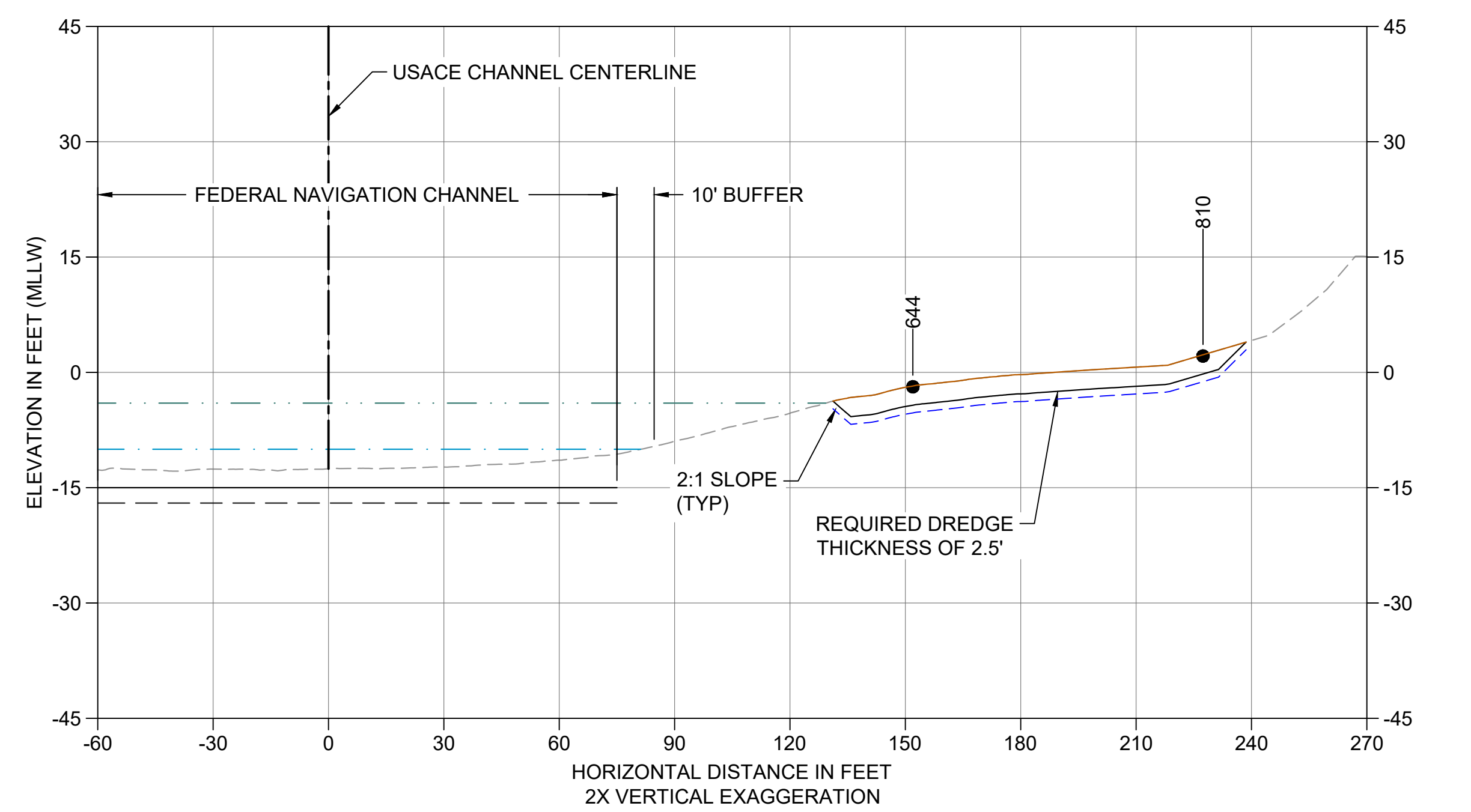
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 \gial\CAD\Projects\0067-King County\LDW\Upper Reach Engineering Services\Construction Plans\0067-LDWUR-PL-Dredge-Sections.dwg | Layout: C210
 PLOTTED: Jul 21, 2023 - 11:54:33pm By: tgriga



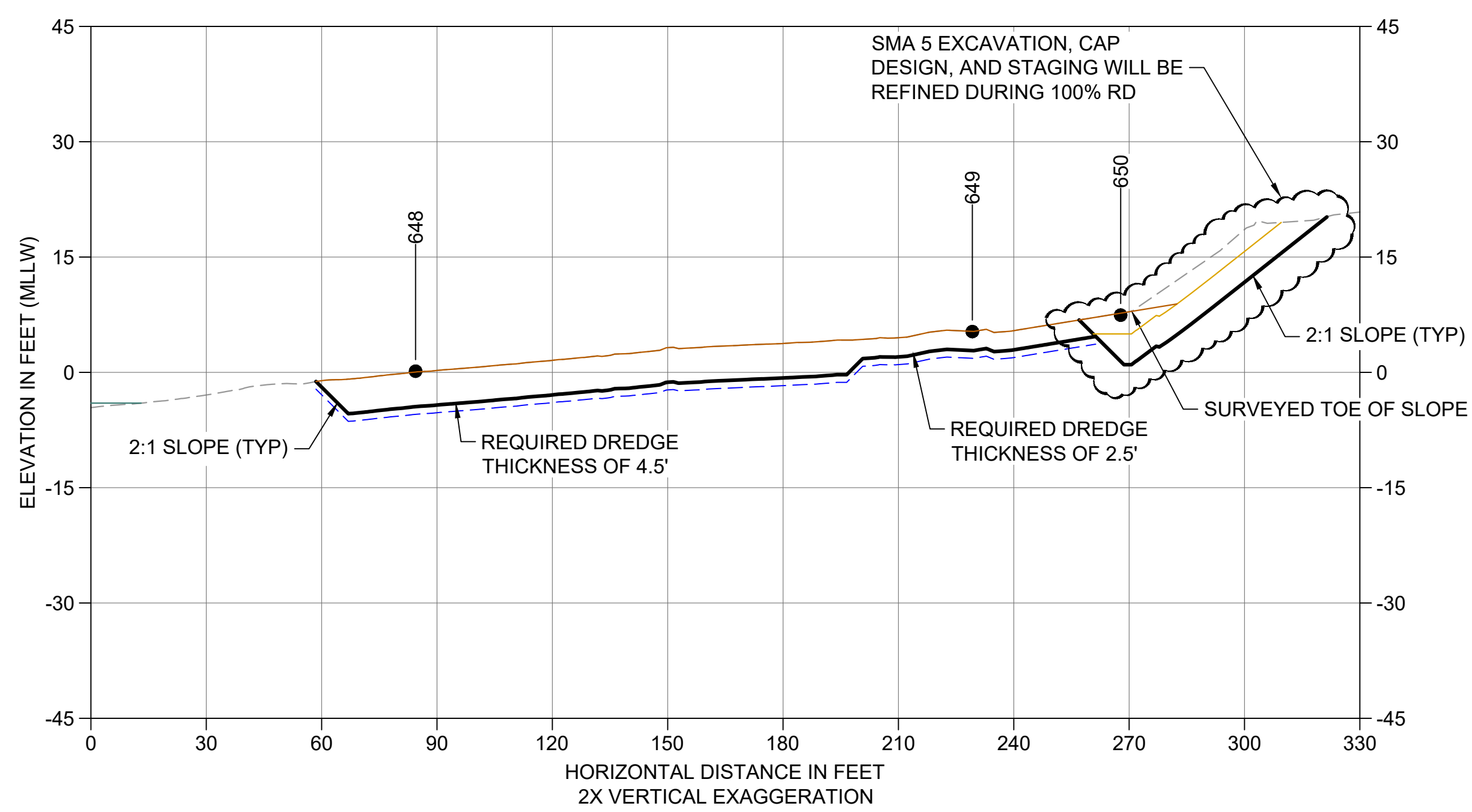
AK CROSS SECTION STA 237+00
 C107 HORIZONTAL SCALE: 1" = 30'
 VERTICAL SCALE: 1" = 15'



AL CROSS SECTION STA 238+00
 C107 HORIZONTAL SCALE: 1" = 30'
 VERTICAL SCALE: 1" = 15'



AM CROSS SECTION STA 238+90
 C107 HORIZONTAL SCALE: 1" = 30'
 VERTICAL SCALE: 1" = 15'



AN CROSS SECTION STA 241+50
 C108 HORIZONTAL SCALE: 1" = 30'
 VERTICAL SCALE: 1" = 15'

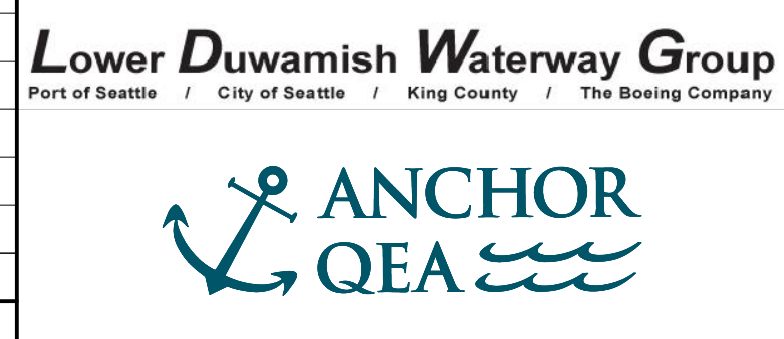
- LEGEND:**
- EXISTING GRADE MERGED DATA
 - USACE AUTHORIZED CHANNEL ELEVATION (-15' MLLW)
 - - - USACE MAINTENANCE ELEVATION (-17' MLLW)
 - · - · - INTERTIDAL/SUBTIDAL TRANSITION (-4' MLLW)
 - · - · - LOWEST HABITAT AREA ELEVATION (-10' MLLW)
 - - - BOEING PLANT 2 POST-DREDGE SURVEY, 2013-2015
 - BOEING PLANT 2 POST-BACKFILL SURVEY, 2013-2015
 - DREDGE DESIGN SURFACE
 - - - 1' ALLOWABLE OVERDREDGE
 - ENGINEERED CAP SURFACE
 - BACKFILL SURFACE
 - VERTICAL SAMPLE LOCATION

- NOTES:**
1. VERTICAL DATUM: MLLW
 2. ENR AND RMC PLACEMENT NOT SHOWN ON CROSS SECTIONS. SEE DETAILS 1 AND 3/C304.

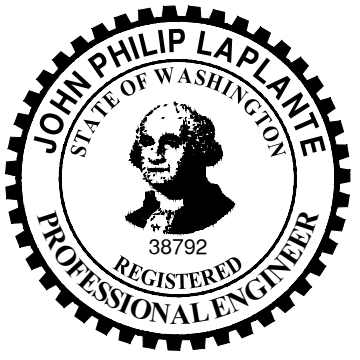
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NO	REVISION DESCRIPTION	BY	APVD	DATE



PRE-FINAL ISSUE DRAWING
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 JULY 2023



DESIGNED/DRAWN: K. GROSS
 PROJECT ENGINEER: J. LAPLANTE
 DESIGN APPROVAL: T. WANG
 PROJECT ACCEPTANCE: PRJCT MNGR

CHECKED: BIGSBY/GRIGA
 SCALE: AS NOTED
 PROJECT FILE NO: E00559E18
 CONTRACT NO: C0XXXXCX

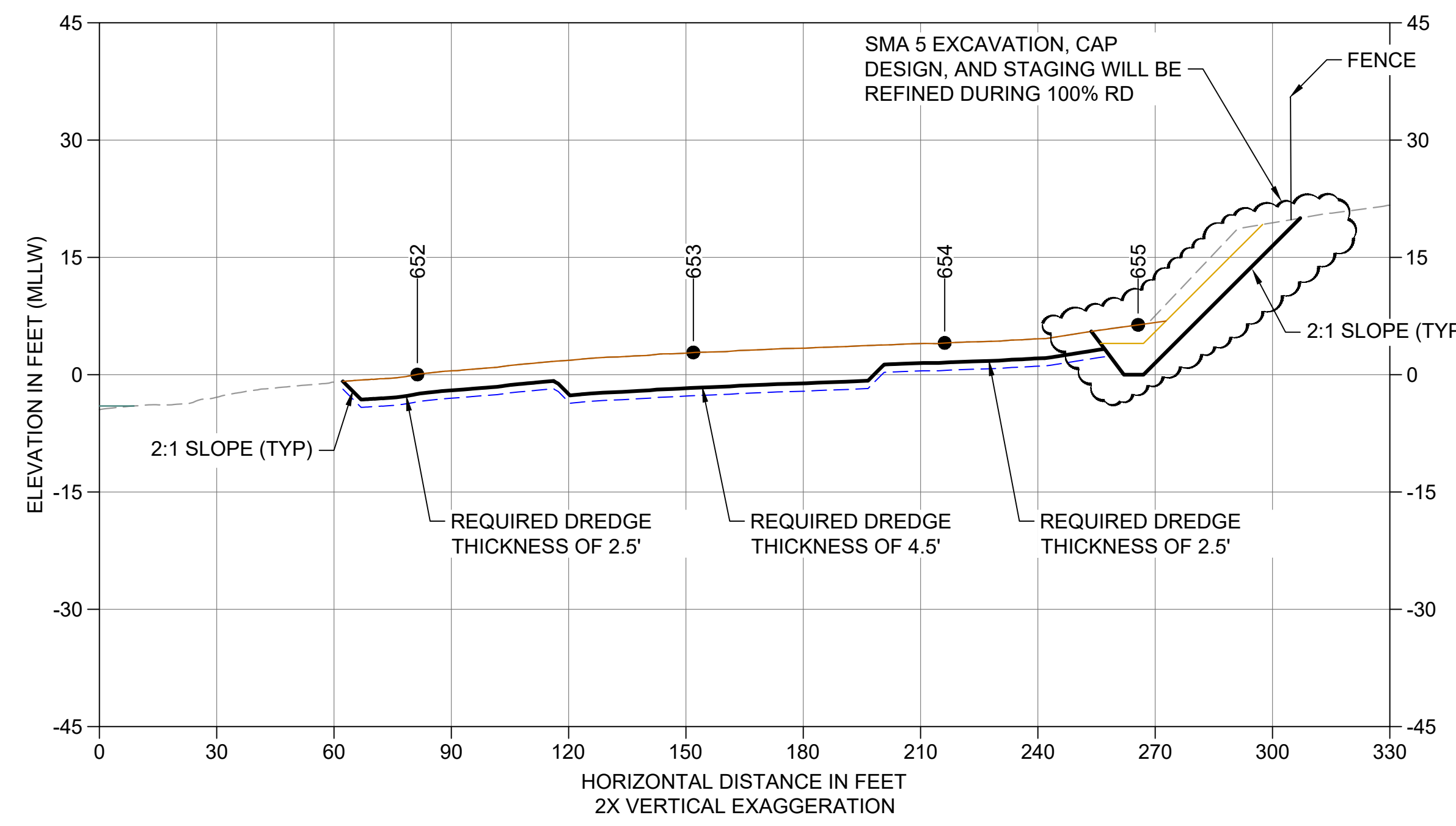


DEPARTMENT OF NATURAL RESOURCES & PARKS
 WASTEWATER TREATMENT DIVISION
 LOWER DUWAMISH WATERWAY UPPER REACH
 SEDIMENT CLEANUP

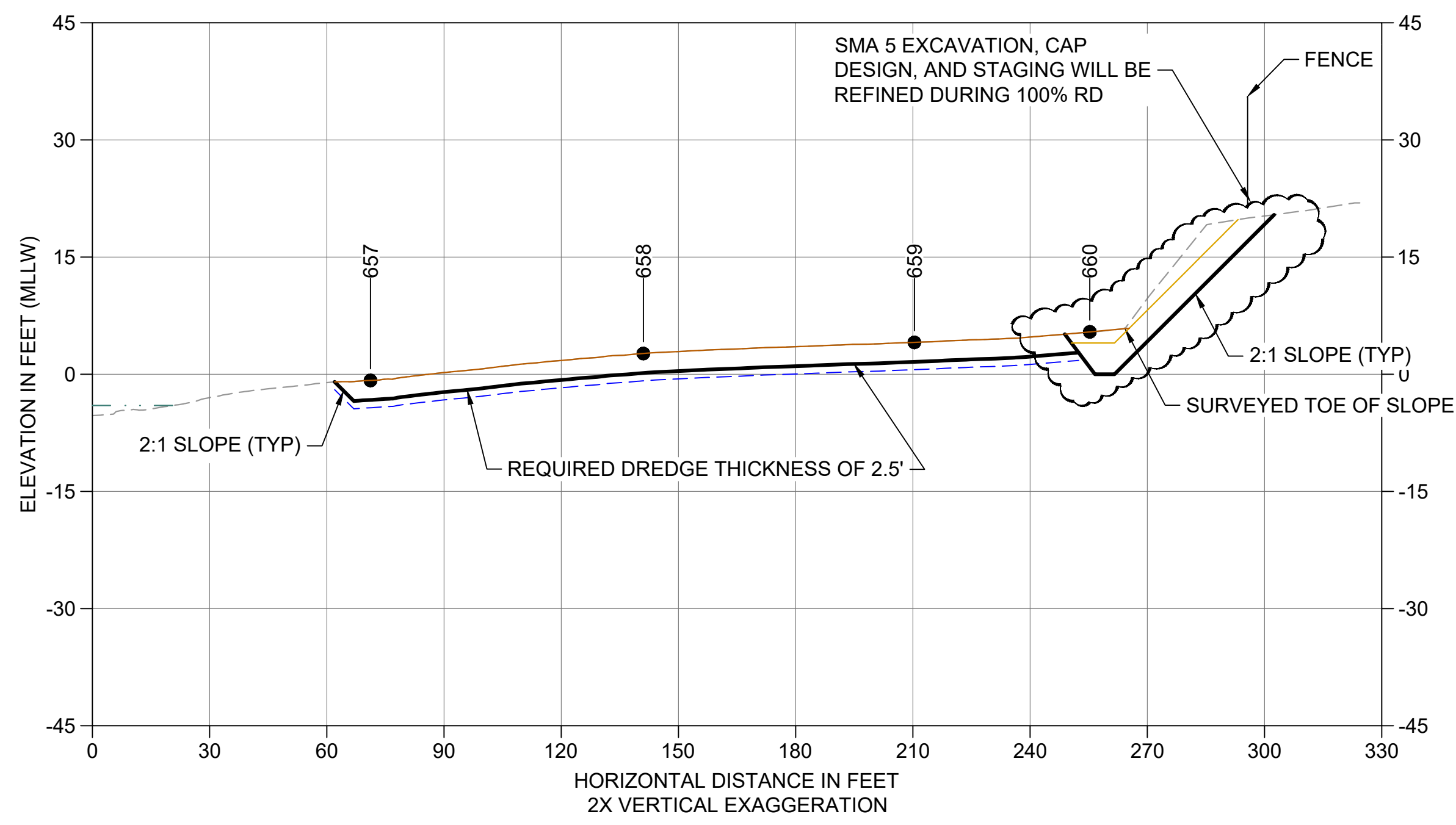
CROSS SECTION (10 OF 15)

DATE: JULY 2023
 DRAWING NO: **C210**
 SHT NO / TOTAL: 63 / 87
 REV NO: **0**

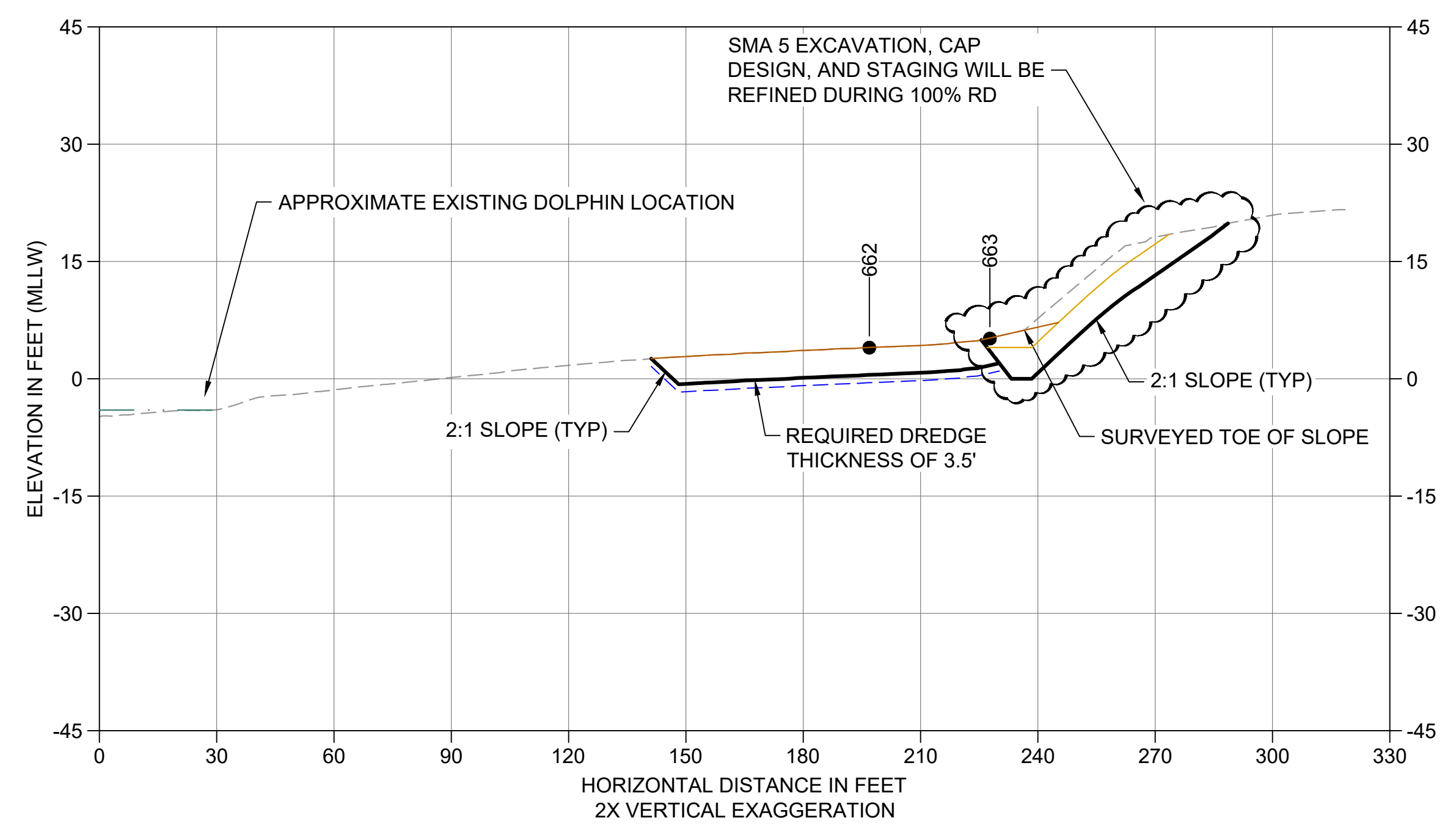
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 PLOTTED: Jul 21, 2023 - 11:54:54pm By: tgriga



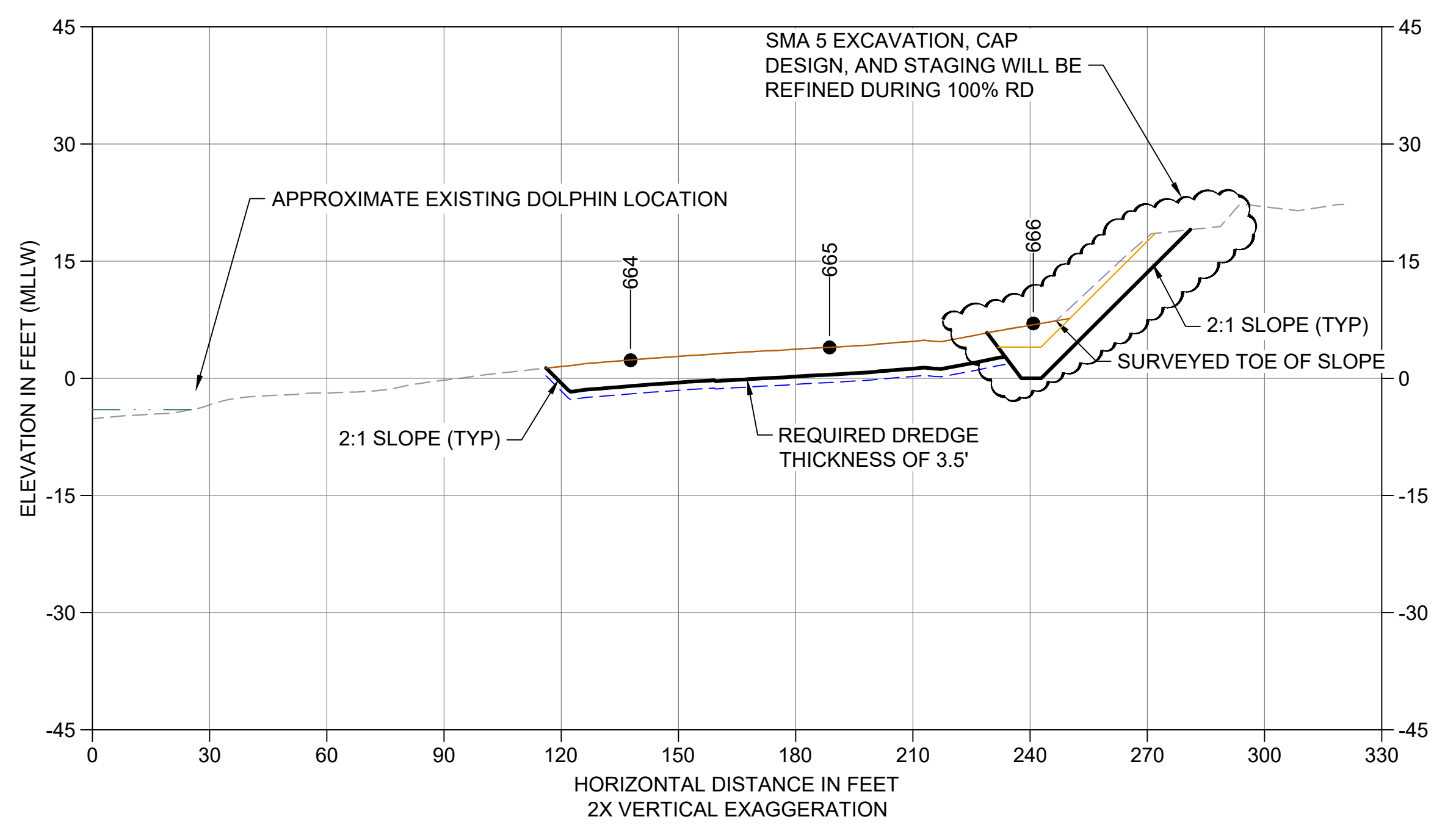
AO CROSS SECTION STA 242+50
 C108 HORIZONTAL SCALE: 1" = 30'
 VERTICAL SCALE: 1" = 15'



AP CROSS SECTION STA 243+50
 C108 HORIZONTAL SCALE: 1" = 30'
 VERTICAL SCALE: 1" = 15'



AQ CROSS SECTION STA 244+50
 C108 HORIZONTAL SCALE: 1" = 30'
 VERTICAL SCALE: 1" = 15'



AR CROSS SECTION STA 245+50
 C108 HORIZONTAL SCALE: 1" = 30'
 VERTICAL SCALE: 1" = 15'

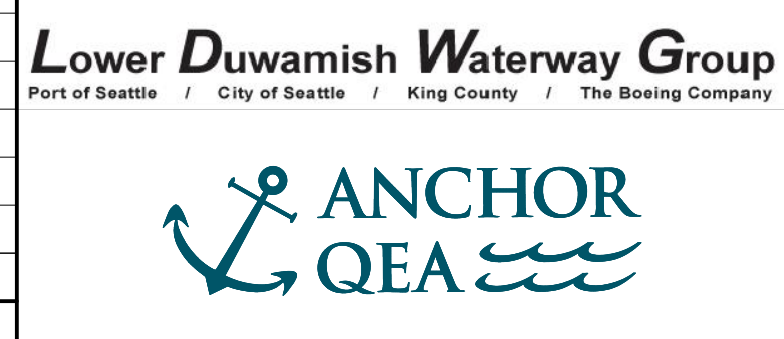
- LEGEND:**
- EXISTING GRADE MERGED DATA
 - USACE AUTHORIZED CHANNEL ELEVATION (-15' MLLW)
 - - - USACE MAINTENANCE ELEVATION (-17' MLLW)
 - · - · - INTERTIDAL/SUBTIDAL TRANSITION (-4' MLLW)
 - - - - - LOWEST HABITAT AREA ELEVATION (-10' MLLW)
 - - - - - BOEING PLANT 2 POST-DREDGE SURVEY, 2013-2015
 - BOEING PLANT 2 POST-BACKFILL SURVEY, 2013-2015
 - DREDGE DESIGN SURFACE
 - - - - - 1' ALLOWABLE OVERDREDGE
 - ENGINEERED CAP SURFACE
 - BACKFILL SURFACE
 - VERTICAL SAMPLE LOCATION

- NOTES:**
1. VERTICAL DATUM: MLLW
 2. ENR AND RMC PLACEMENT NOT SHOWN ON CROSS SECTIONS. SEE DETAILS 1 AND 3/C304.

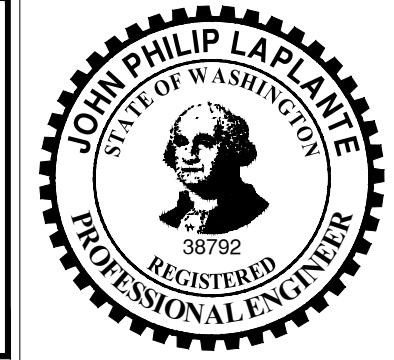
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NO	REVISION DESCRIPTION	BY	APVD	DATE



PRE-FINAL ISSUE DRAWING
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 JULY 2023



DESIGNED/DRAWN: K. GROSS
 PROJECT ENGINEER: J. LAPLANTE
 DESIGN APPROVAL: T. WANG
 PROJECT ACCEPTANCE: PRJCT MNGR

CHECKED: BIGSBY/GRIGA
 SCALE: AS NOTED
 PROJECT FILE NO: E00559E18
 CONTRACT NO: C0XXXXCX

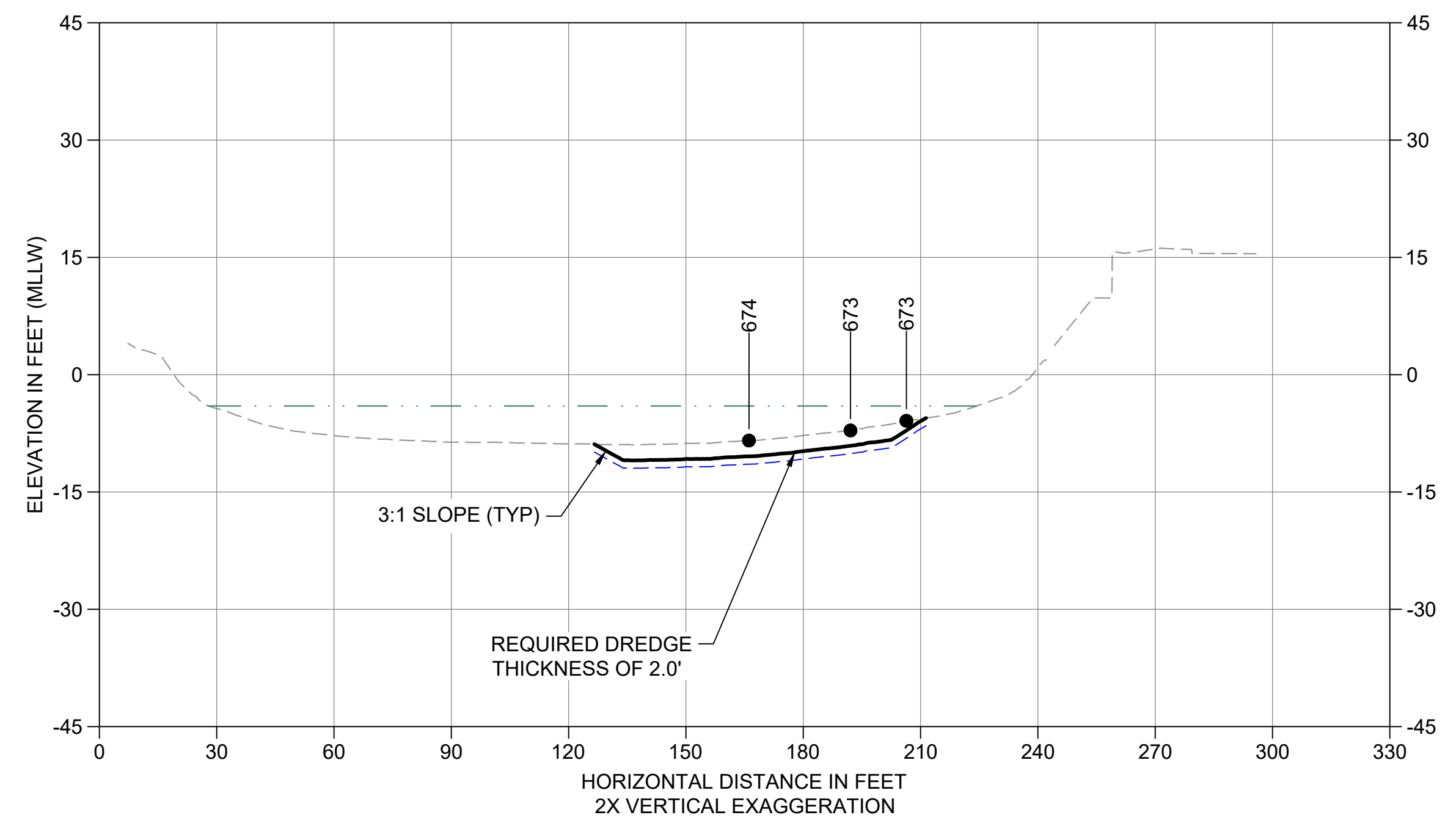


DEPARTMENT OF NATURAL RESOURCES & PARKS
 WASTEWATER TREATMENT DIVISION
 LOWER DUWAMISH WATERWAY UPPER REACH
 SEDIMENT CLEANUP

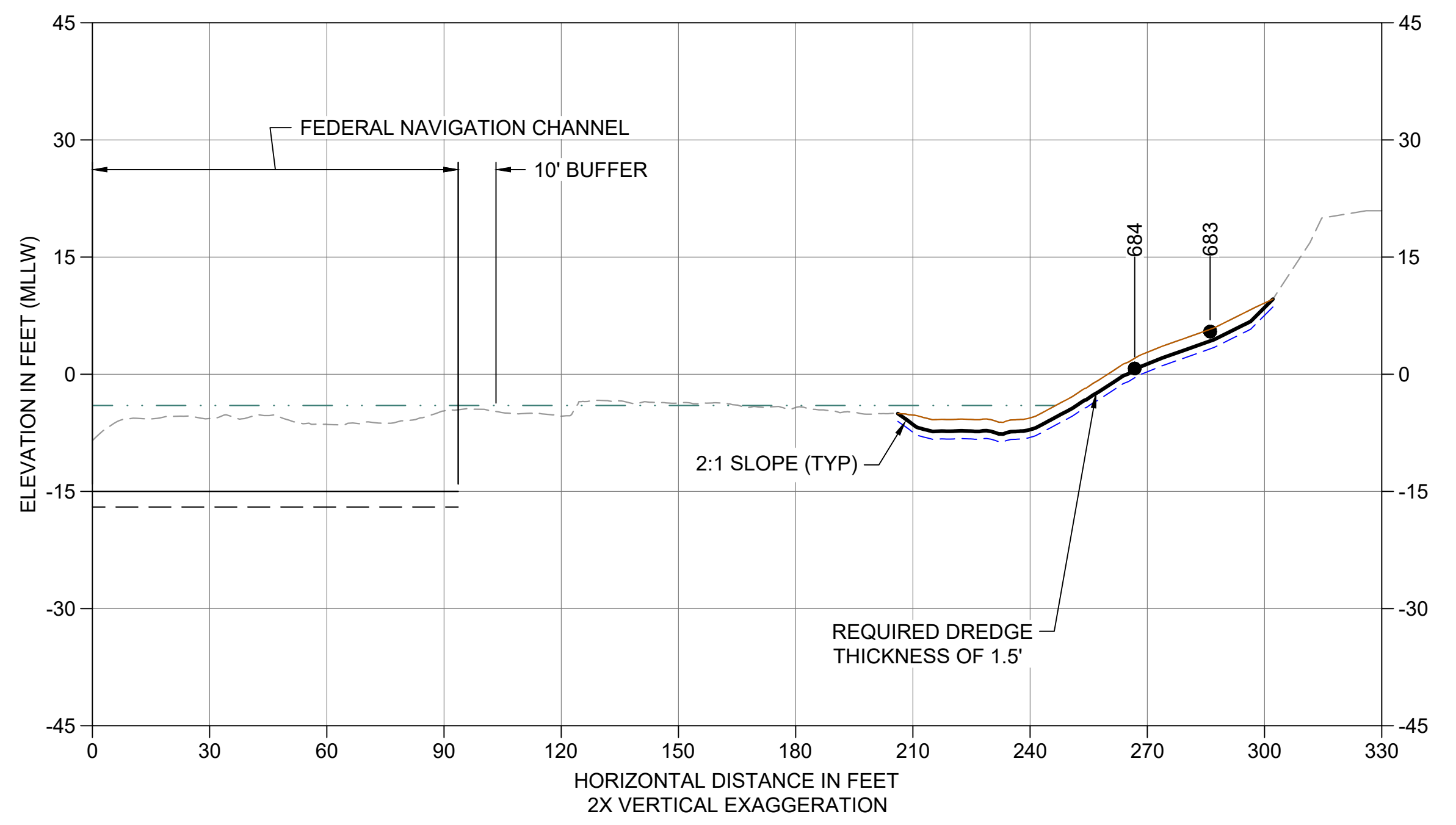
CROSS SECTION (11 OF 15)

DATE: JULY 2023
 DRAWING NO: **C211**
 SHT NO / TOTAL: 64 / 87
 REV NO: **0**

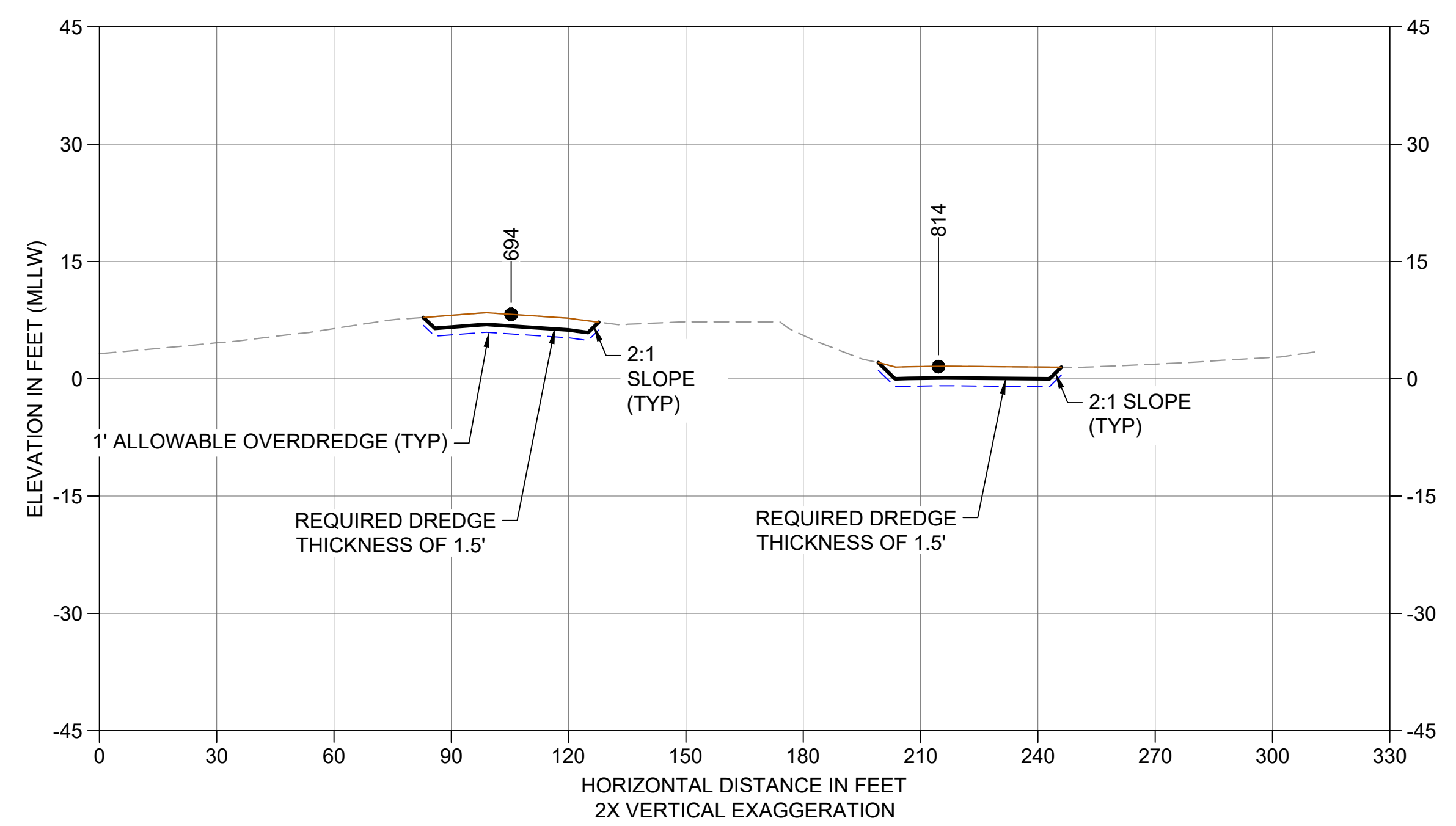
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 PLOTTED: Jul 21, 2023 - 11:55:15pm By: tgriga



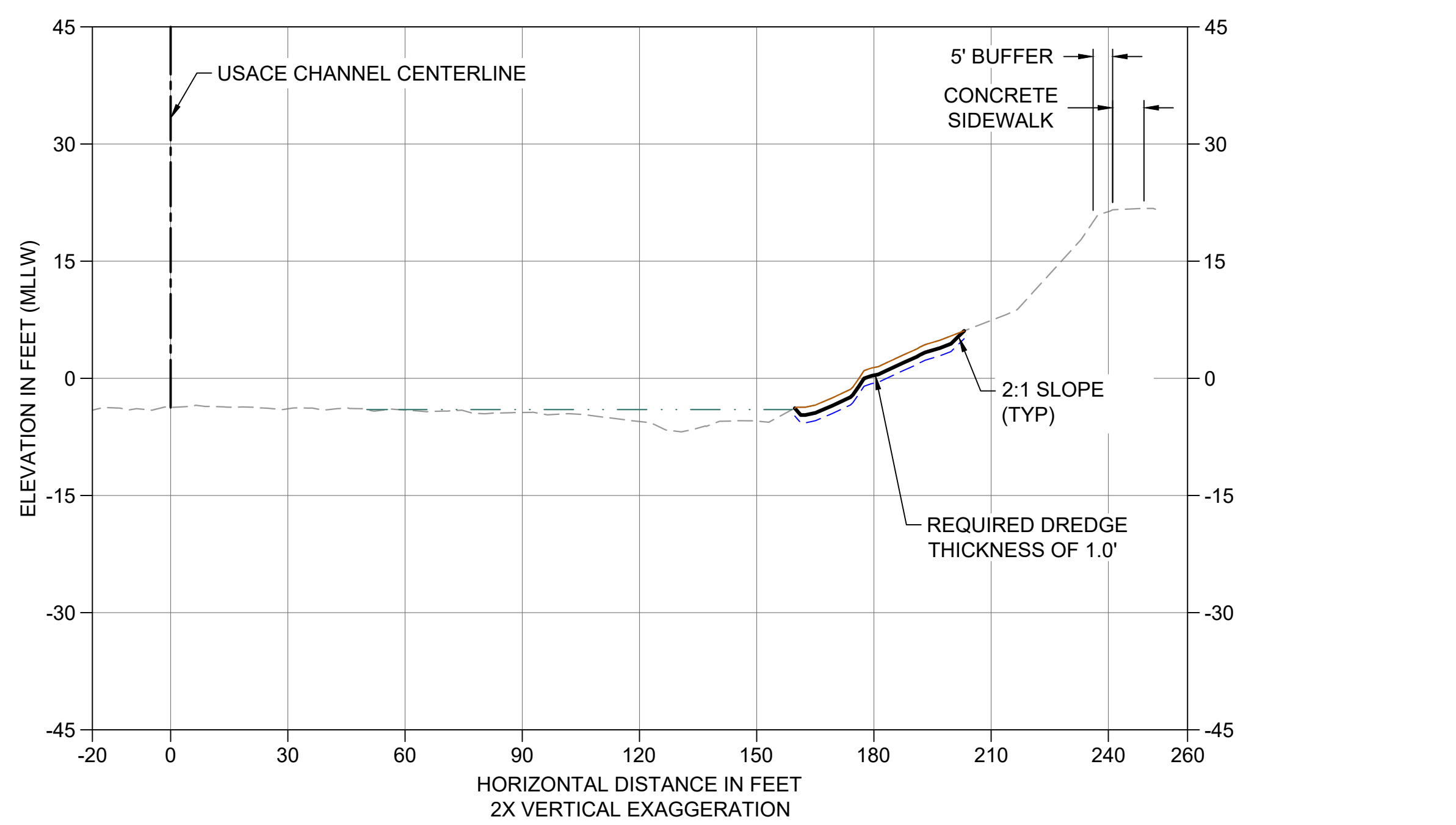
AS CROSS SECTION SMA-4
 C109 HORIZONTAL SCALE: 1" = 30'
 VERTICAL SCALE: 1" = 15'



AT CROSS SECTION SMA-3
 C110 HORIZONTAL SCALE: 1" = 30'
 VERTICAL SCALE: 1" = 10'



AU CROSS SECTION SMA-2
 C111 HORIZONTAL SCALE: 1" = 30'
 VERTICAL SCALE: 1" = 10'



AV CROSS SECTION SMA-1
 C112 HORIZONTAL SCALE: 1" = 30'
 VERTICAL SCALE: 1" = 15'

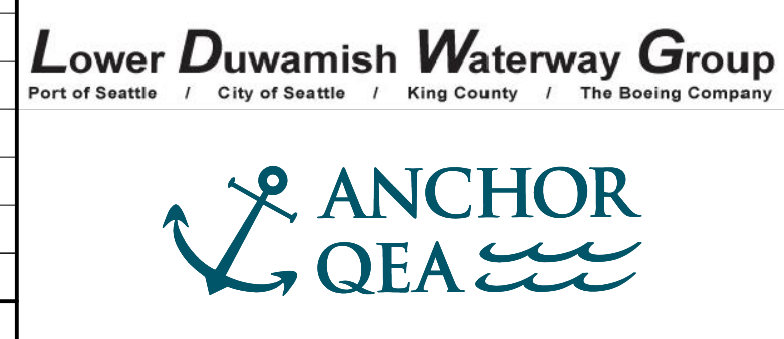
- LEGEND:**
- EXISTING GRADE MERGED DATA
 - USACE AUTHORIZED CHANNEL ELEVATION (-15' MLLW)
 - - - USACE MAINTENANCE ELEVATION (-17' MLLW)
 - · - · - INTERTIDAL/SUBTIDAL TRANSITION (-4' MLLW)
 - · - · - LOWEST HABITAT AREA ELEVATION (-10' MLLW)
 - - - BOEING PLANT 2 POST-DREDGE SURVEY, 2013-2015
 - BOEING PLANT 2 POST-BACKFILL SURVEY, 2013-2015
 - DREDGE DESIGN SURFACE
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 - ENGINEERED CAP SURFACE
 - BACKFILL SURFACE
 - VERTICAL SAMPLE LOCATION

- NOTES:**
1. VERTICAL DATUM: MLLW
 2. ENR AND RMC PLACEMENT NOT SHOWN ON CROSS SECTIONS. SEE DETAILS 1 AND 3/C304.

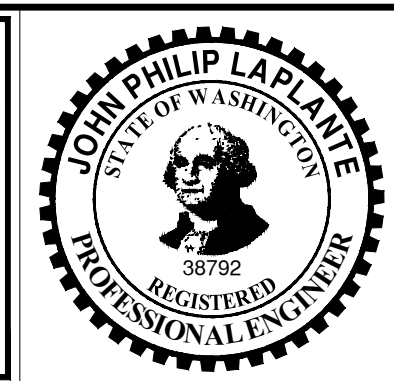
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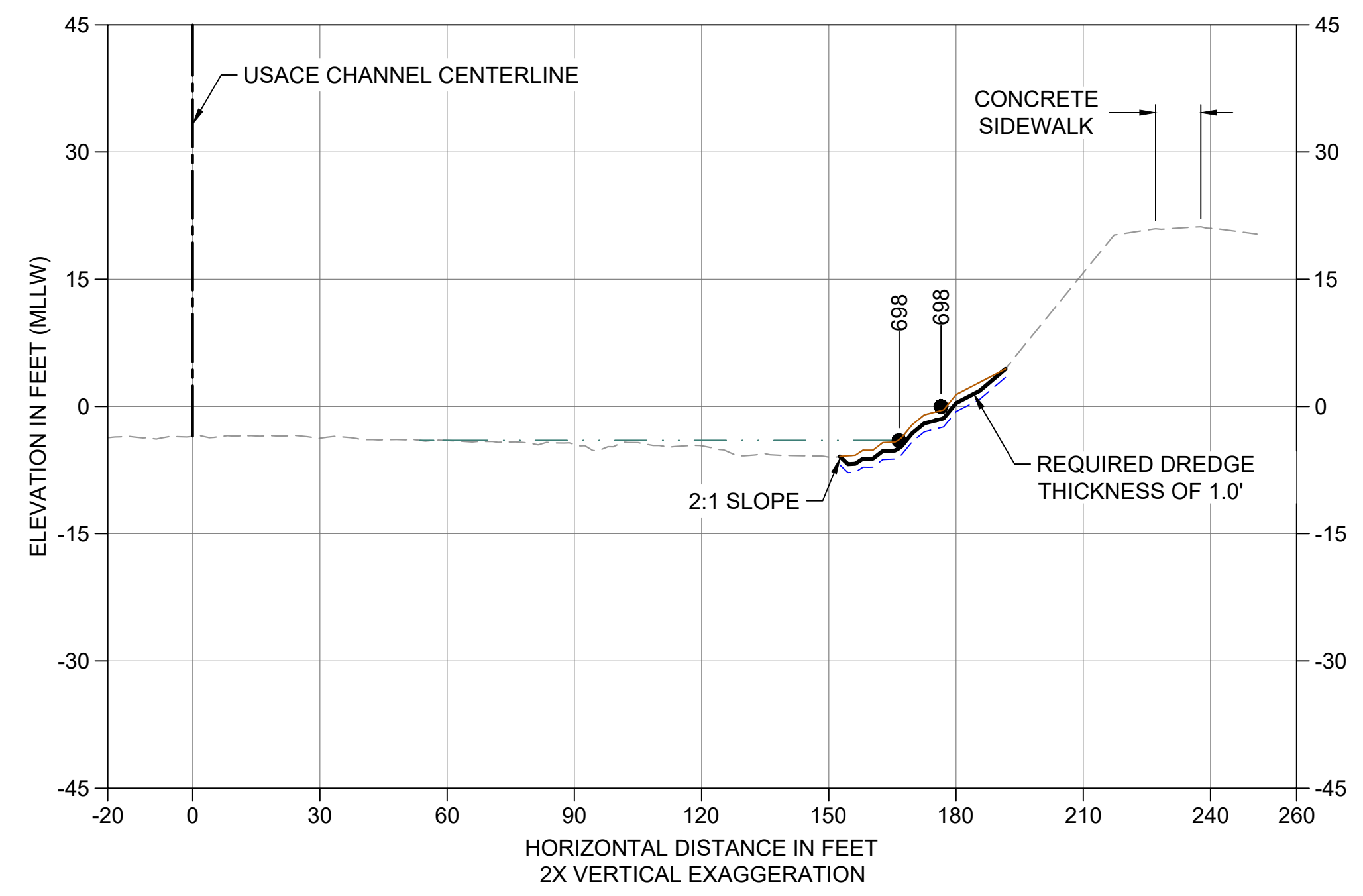
DESIGNED/DRAWN: K. GROSS
 PROJECT ENGINEER: J. LAPLANTE
 DESIGN APPROVAL: T. WANG
 PROJECT ACCEPTANCE: PRJCT MNGR
 CHECKED: BIGSBY/GRIGA
 SCALE: AS NOTED
 PROJECT FILE NO: E00559E18
 CONTRACT NO: C0XXXXCX



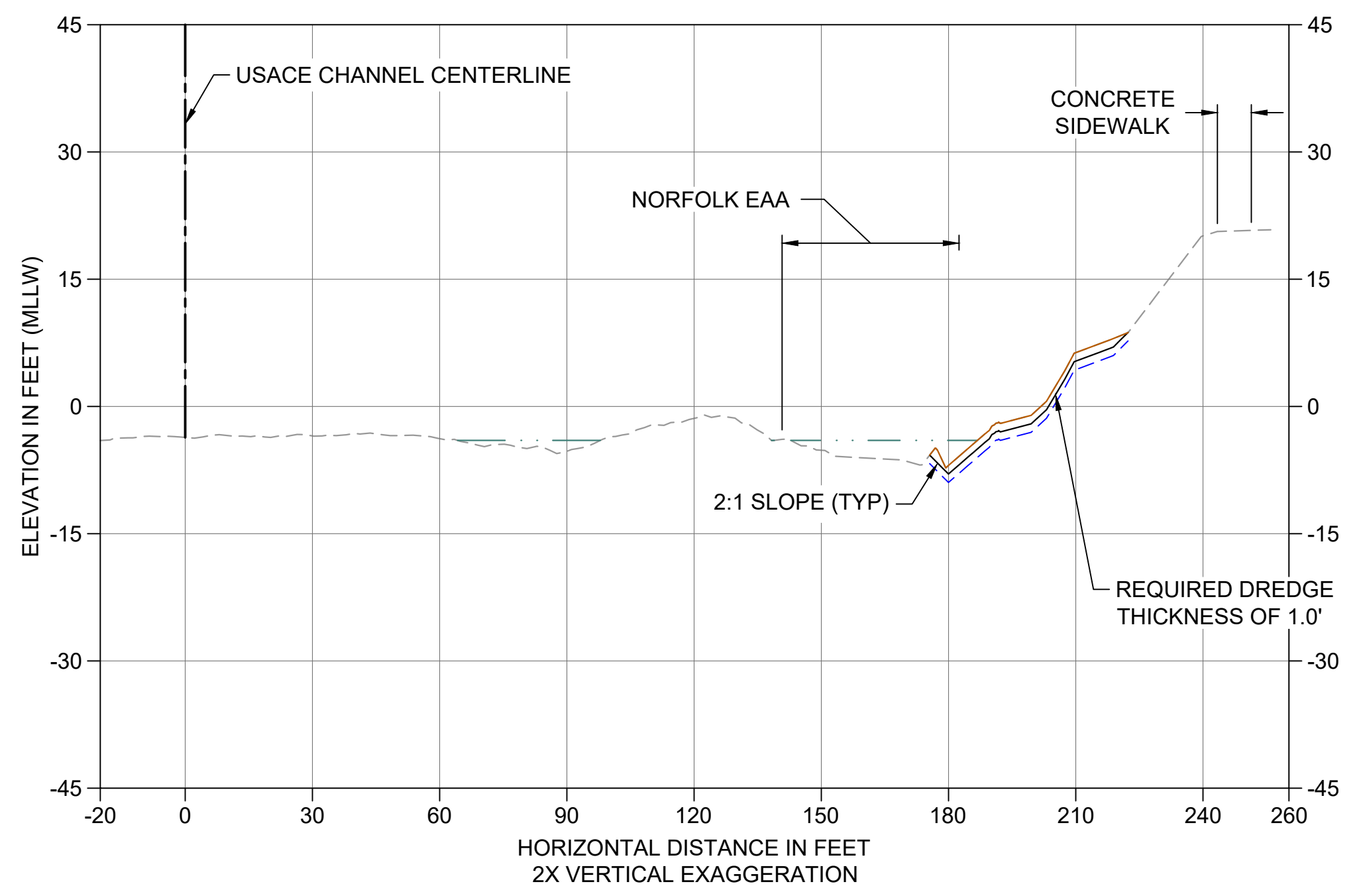
DEPARTMENT OF NATURAL RESOURCES & PARKS
 WASTEWATER TREATMENT DIVISION
 LOWER DUWAMISH WATERWAY UPPER REACH
 SEDIMENT CLEANUP
CROSS SECTION (12 OF 15)

DATE: JULY 2023
 DRAWING NO: **C212**
 SHT NO / TOTAL: 65 / 87
 REV NO: **0**

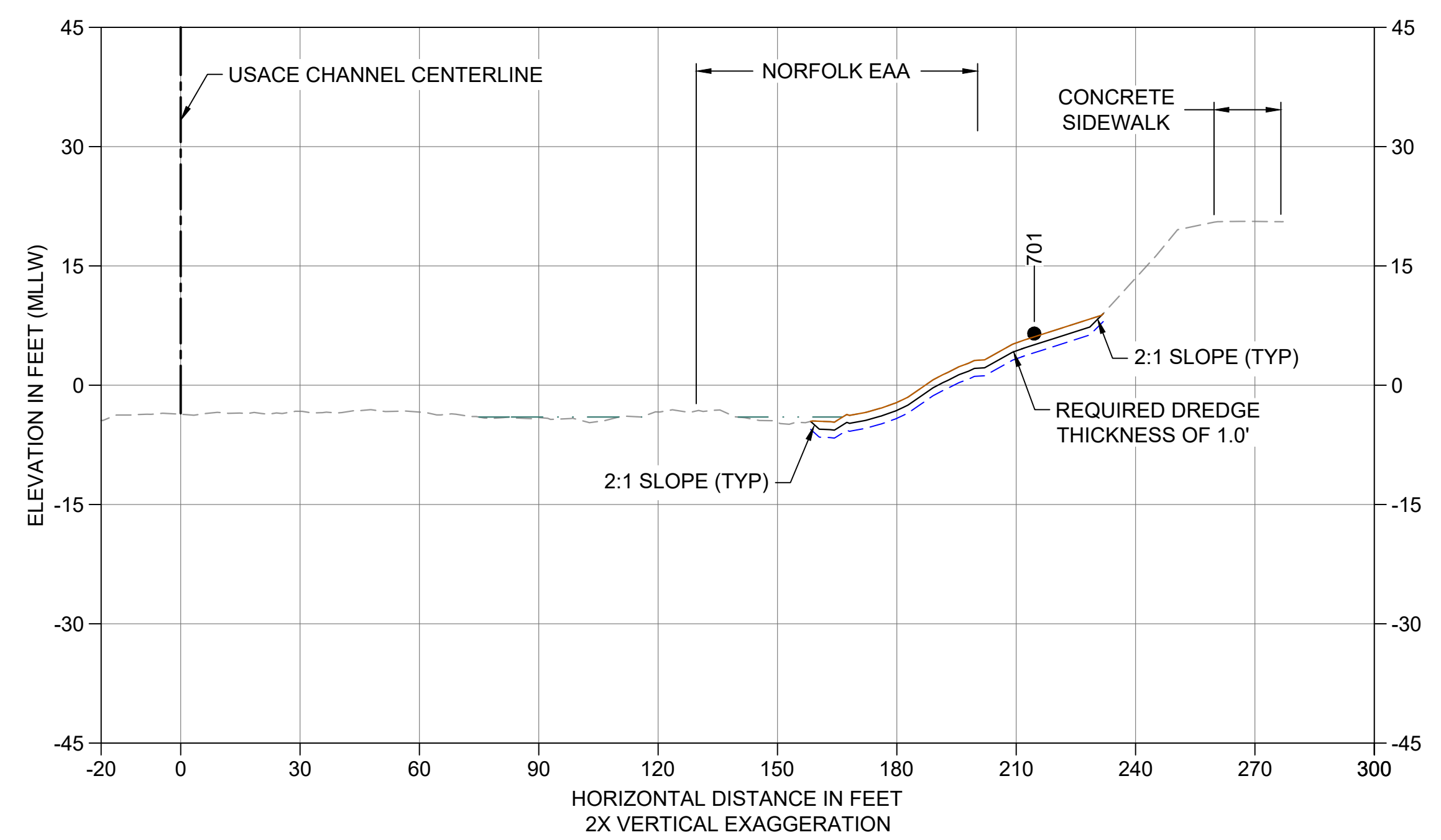
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 PLOTTED: Jul 21, 2023 - 11:55:36pm By: tgriga



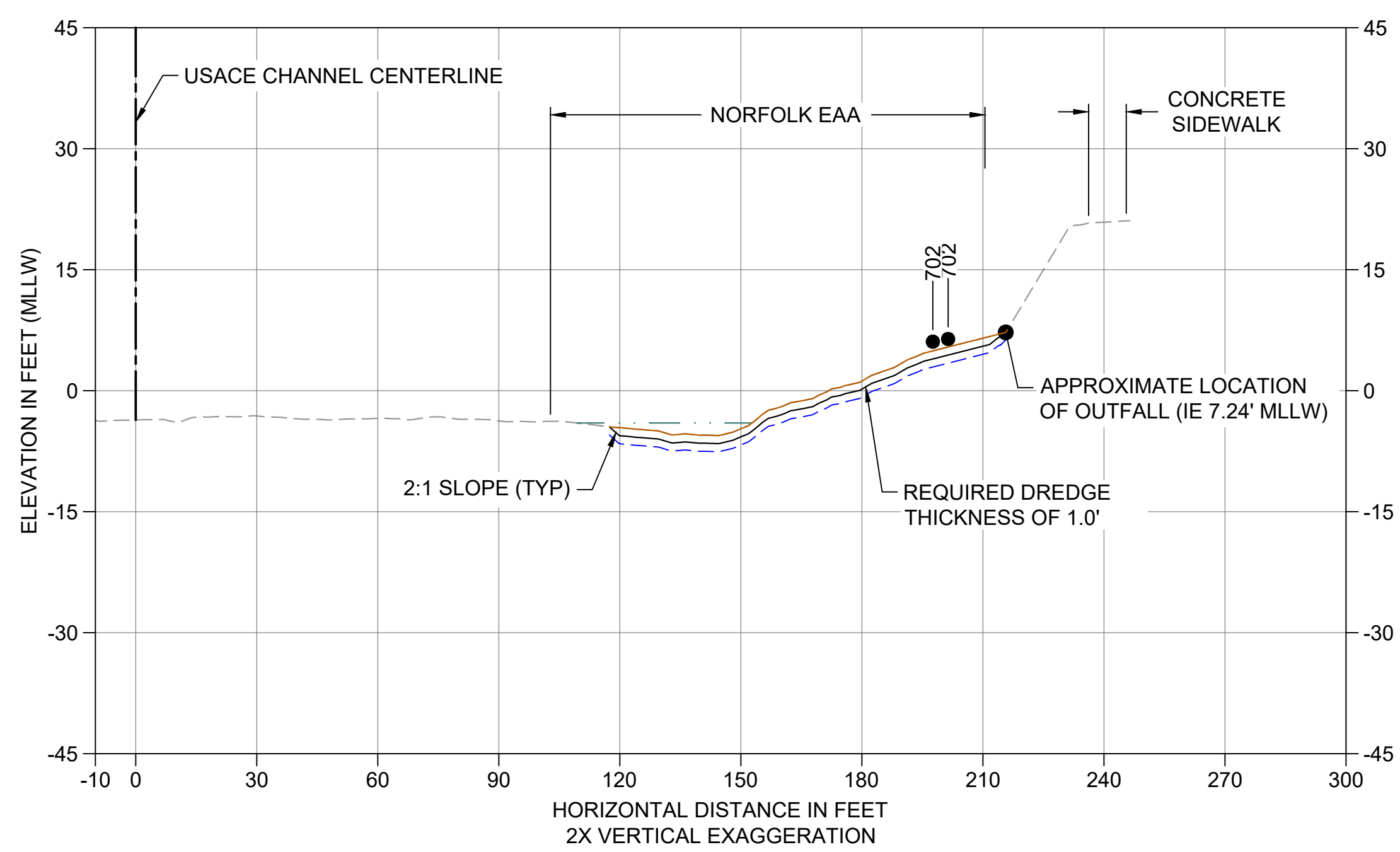
AW CROSS SECTION SMA-1
 C112 HORIZONTAL SCALE: 1" = 30'
 VERTICAL SCALE: 1" = 15'



AX CROSS SECTION SMA-1
 C112 HORIZONTAL SCALE: 1" = 30'
 VERTICAL SCALE: 1" = 15'



AY CROSS SECTION SMA-1
 C112 HORIZONTAL SCALE: 1" = 30'
 VERTICAL SCALE: 1" = 15'



AZ CROSS SECTION SMA-1
 C112 HORIZONTAL SCALE: 1" = 30'
 VERTICAL SCALE: 1" = 15'

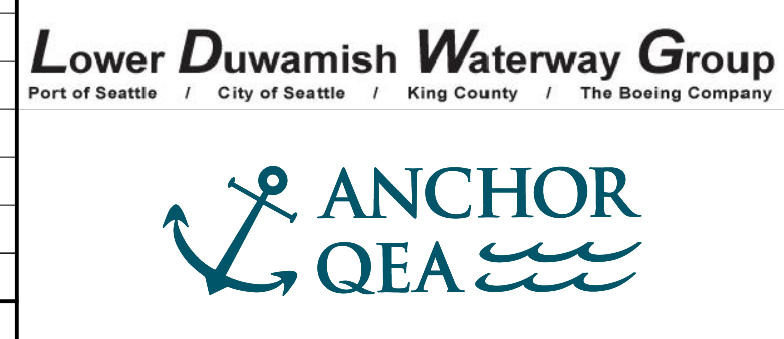
- LEGEND:**
- EXISTING GRADE MERGED DATA
 - USACE AUTHORIZED CHANNEL ELEVATION (-15' MLLW)
 - - - USACE MAINTENANCE ELEVATION (-17' MLLW)
 - · - · - INTERTIDAL/SUBTIDAL TRANSITION (-4' MLLW)
 - · - · - LOWEST HABITAT AREA ELEVATION (-10' MLLW)
 - - - BOEING PLANT 2 POST-DREDGE SURVEY, 2013-2015
 - BOEING PLANT 2 POST-BACKFILL SURVEY, 2013-2015
 - DREDGE DESIGN SURFACE
 - - - 1' ALLOWABLE OVERDREDGE
 - ENGINEERED CAP SURFACE
 - BACKFILL SURFACE
 - VERTICAL SAMPLE LOCATION

- NOTES:**
- VERTICAL DATUM: MLLW
 - ENR AND RMC PLACEMENT NOT SHOWN ON CROSS SECTIONS. SEE DETAILS 1 AND 3/C304.

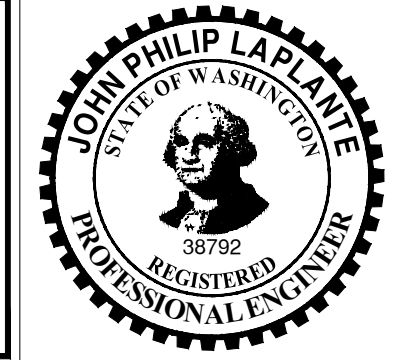
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NO	REVISION DESCRIPTION	BY	APVD	DATE



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 JULY 2023



DESIGNED/DRAWN: K. GROSS
 PROJECT ENGINEER: J. LAPLANTE
 DESIGN APPROVAL: T. WANG
 PROJECT ACCEPTANCE: PRJCT MNGR

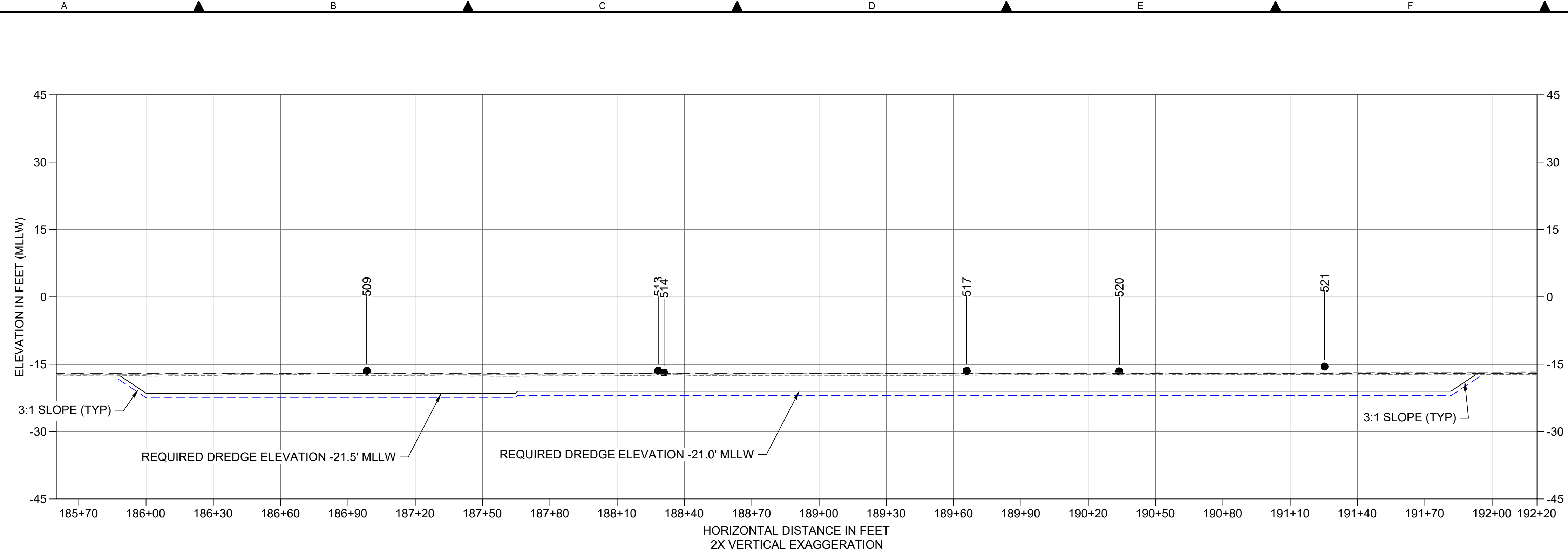
CHECKED: BIGSBY/GRIGA
 SCALE: AS NOTED
 PROJECT FILE NO: E00559E18
 CONTRACT NO: C0XXXXCX



DEPARTMENT OF NATURAL RESOURCES & PARKS
 WASTEWATER TREATMENT DIVISION
 LOWER DUWAMISH WATERWAY UPPER REACH
 SEDIMENT CLEANUP
CROSS SECTION (13 OF 15)

DATE: JULY 2023
 DRAWING NO: **C213**
 SHT NO / TOTAL: 66 / 87
 REV NO: **0**

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 PLOTTED: Jul 21, 2023 - 11:56:25pm By: tgriga



1 SMA 18 AND 17 LONGITUDINAL SECTION
 C101 HORIZONTAL SCALE: 1" = 30'
 VERTICAL SCALE: 1" = 15'

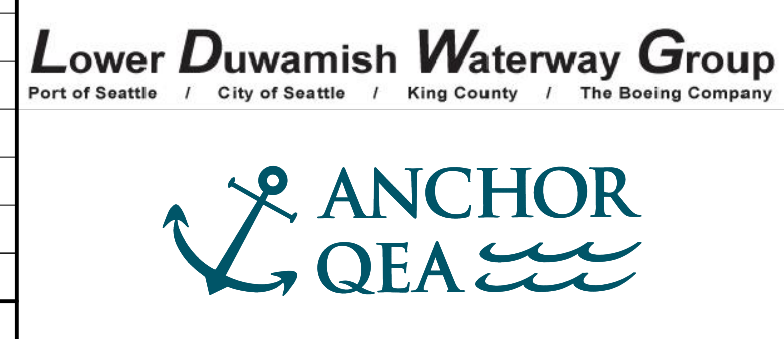
- LEGEND:**
- EXISTING GRADE MERGED DATA
 - USACE AUTHORIZED CHANNEL ELEVATION (-15' MLLW)
 - USACE MAINTENANCE ELEVATION (-17' MLLW)
 - INTERTIDAL/SUBTIDAL TRANSITION (-4' MLLW)
 - LOWEST HABITAT AREA ELEVATION (-10' MLLW)
 - BOEING PLANT 2 POST-DREDGE SURVEY, 2013-2015
 - BOEING PLANT 2 POST-BACKFILL SURVEY, 2013-2015
 - DREDGE DESIGN SURFACE
 - 1' ALLOWABLE OVERDREDGE
 - ENGINEERED CAP SURFACE (5/C303)
 - BACKFILL SURFACE
 - VERTICAL SAMPLE LOCATION

- NOTES:**
1. VERTICAL DATUM: MLLW
 2. ENR AND RMC PLACEMENT NOT SHOWN ON CROSS SECTIONS. SEE DETAILS 1 AND 3/C304.

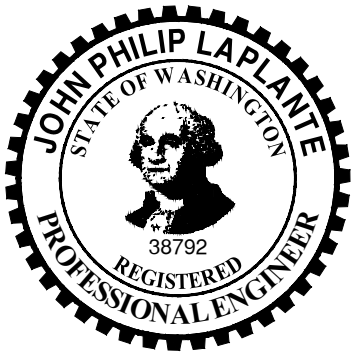
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 JULY 2023



DESIGNED/DRAWN: K. GROSS	CHECKED: BIGSBY/GRIGA
PROJECT ENGINEER: J. LAPLANTE	SCALE: AS NOTED
DESIGN APPROVAL: T. WANG	PROJECT FILE NO: E00559E18
PROJECT ACCEPTANCE: PRJCT MNGR	CONTRACT NO: C0XXXXCX

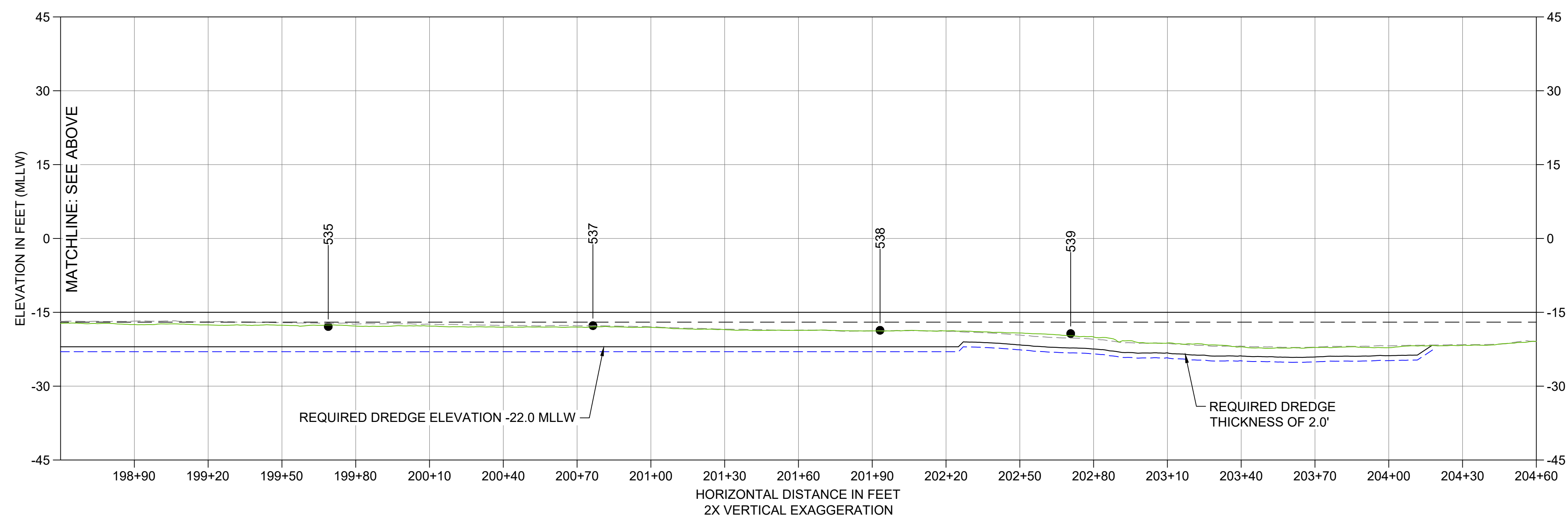
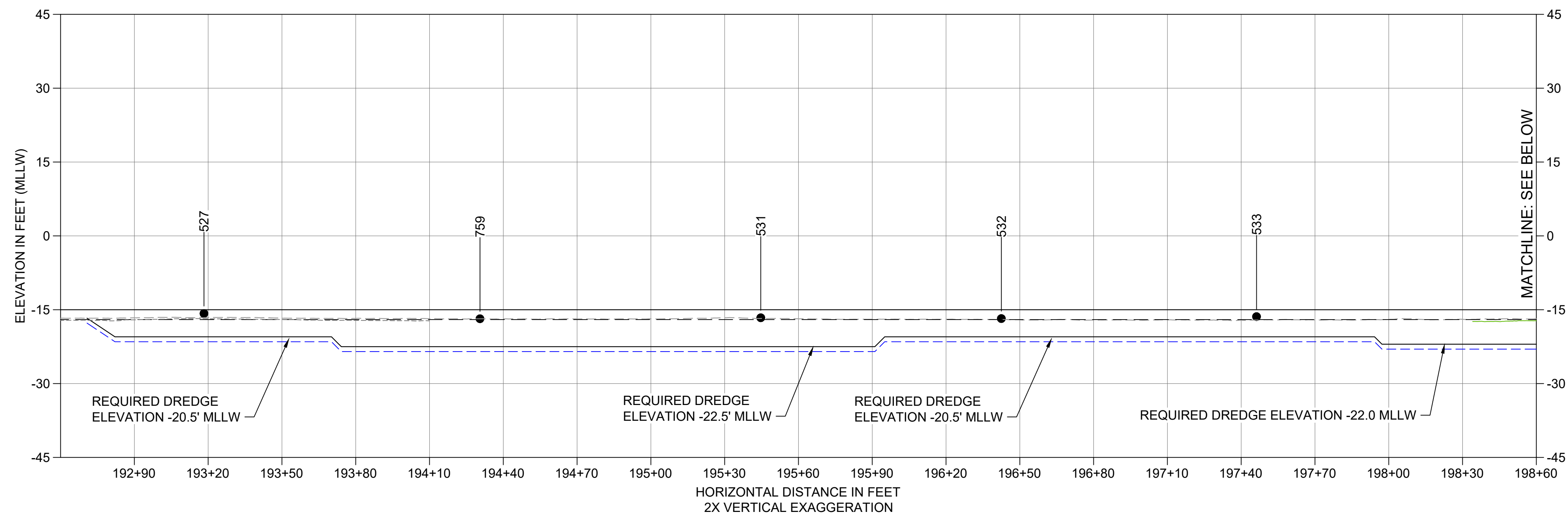


DEPARTMENT OF NATURAL RESOURCES & PARKS
 WASTEWATER TREATMENT DIVISION
 LOWER DUWAMISH WATERWAY UPPER REACH
 SEDIMENT CLEANUP

CROSS SECTION (14 OF 15)

DATE: JULY 2023
DRAWING NO: C214
SHT NO / TOTAL 67 / 87
REV NO: 0

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 PLOTTED: Jul 21, 2023 - 11:57:14pm By: tgriga



2 SMA 16,15, AND 14D LONGITUDINAL SECTION
 C102 HORIZONTAL SCALE: 1" = 30'
 VERTICAL SCALE: 1" = 15'

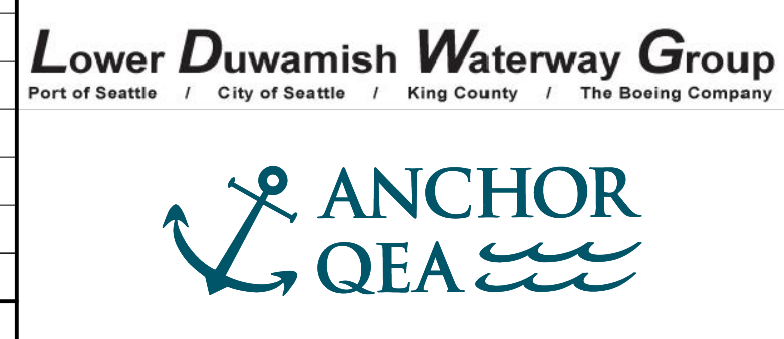
- LEGEND:
- EXISTING GRADE MERGED DATA
 - USACE AUTHORIZED CHANNEL ELEVATION (-15' MLLW)
 - - - USACE MAINTENANCE ELEVATION (-17' MLLW)
 - · - · - INTERTIDAL/SUBTIDAL TRANSITION (-4' MLLW)
 - · - · - LOWEST HABITAT AREA ELEVATION (-10' MLLW)
 - - - BOEING PLANT 2 POST-DREDGE SURVEY, 2013-2015
 - BOEING PLANT 2 POST-BACKFILL SURVEY, 2013-2015
 - DREDGE DESIGN SURFACE
 - - - 1' ALLOWABLE OVERDREDGE
 - ENGINEERED CAP SURFACE (5/C303)
 - BACKFILL SURFACE
 - VERTICAL SAMPLE LOCATION

- NOTES:
1. VERTICAL DATUM: MLLW
 2. ENR AND RMC PLACEMENT NOT SHOWN ON CROSS SECTIONS. SEE DETAILS 1 AND 3/C304.

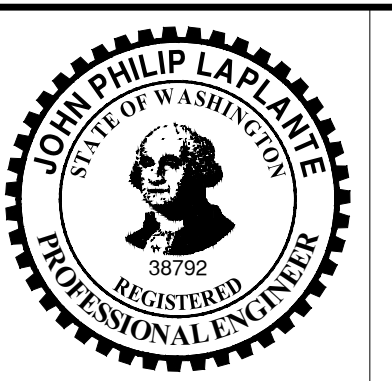
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 JULY 2023



DESIGNED/DRAWN: K. GROSS
 PROJECT ENGINEER: J. LAPLANTE
 DESIGN APPROVAL: T. WANG
 PROJECT ACCEPTANCE: PRJCT MNGR

CHECKED: BIGSBY/GRIGA
 SCALE: AS NOTED
 PROJECT FILE NO: E00559E18
 CONTRACT NO: C0XXXXCX

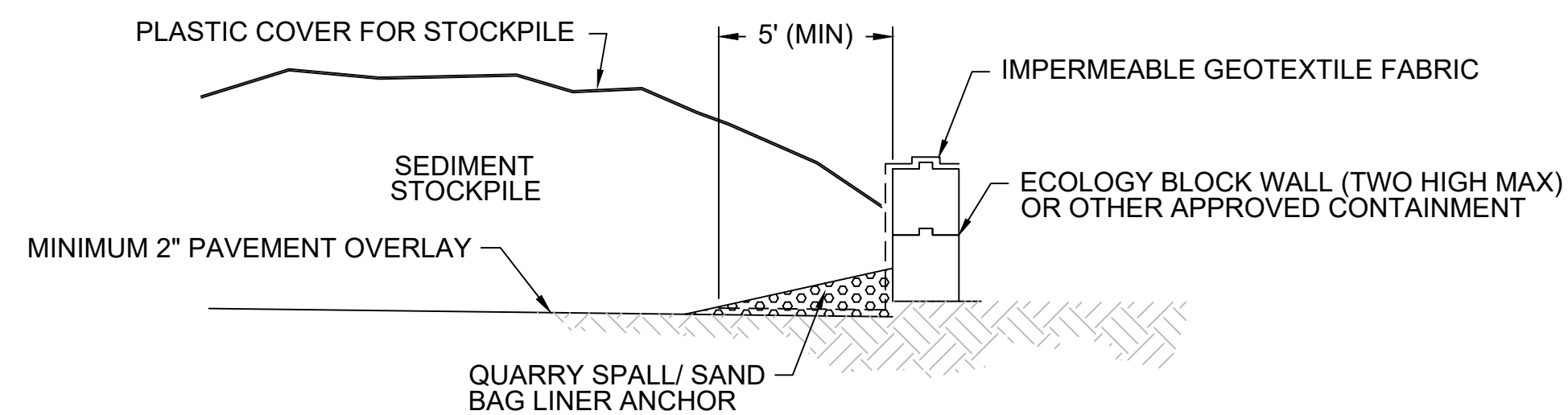


DEPARTMENT OF NATURAL RESOURCES & PARKS
 WASTEWATER TREATMENT DIVISION
 LOWER DUWAMISH WATERWAY UPPER REACH
 SEDIMENT CLEANUP

CROSS SECTION (15 OF 15)

DATE:	JULY 2023
DRAWING NO:	C215
SHT NO / TOTAL	68 / 87
REV NO:	0

BORDER FILE EDITION: x:\KOV\TD-Size-TB-Border_ACBM\Layer
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 PLOTTED: Jul 23, 2023 04:50:19pm By: tgriga



STOCKPILE CONTAINMENT

DETAIL 1
 SCALE: NONE

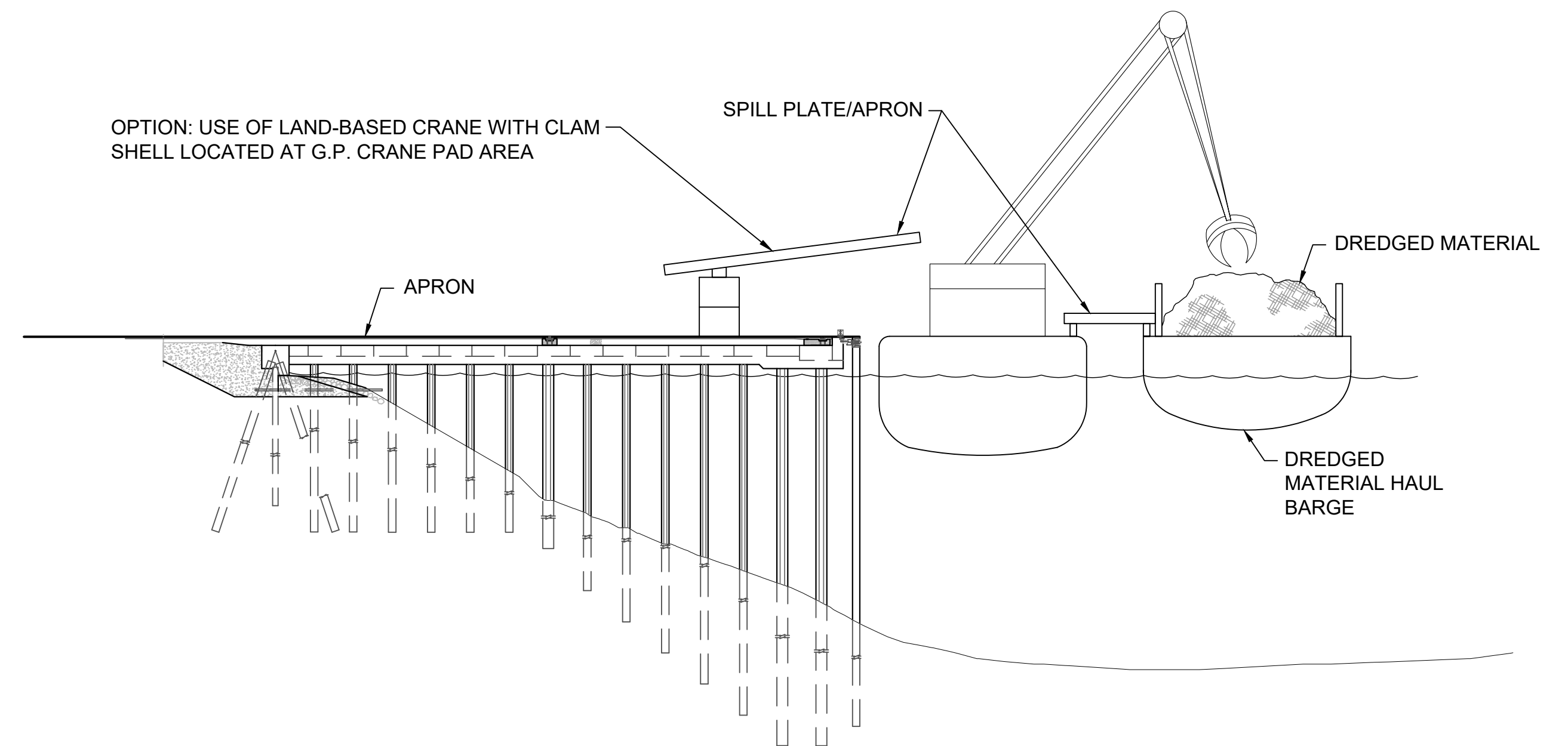


PHOTO 1: EXAMPLE OF OFFLOADING OPERATIONAL CONTROLS



PHOTO 2: EXAMPLE OF OFFLOADING OPERATIONAL CONTROLS

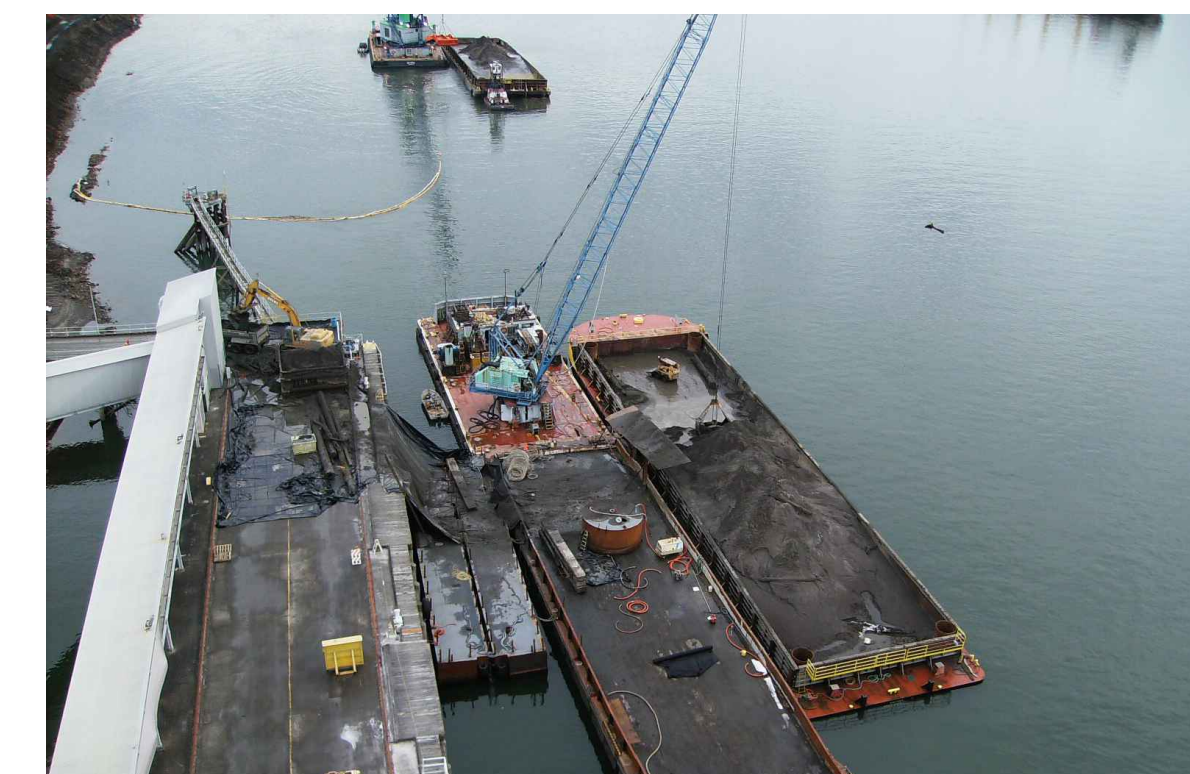
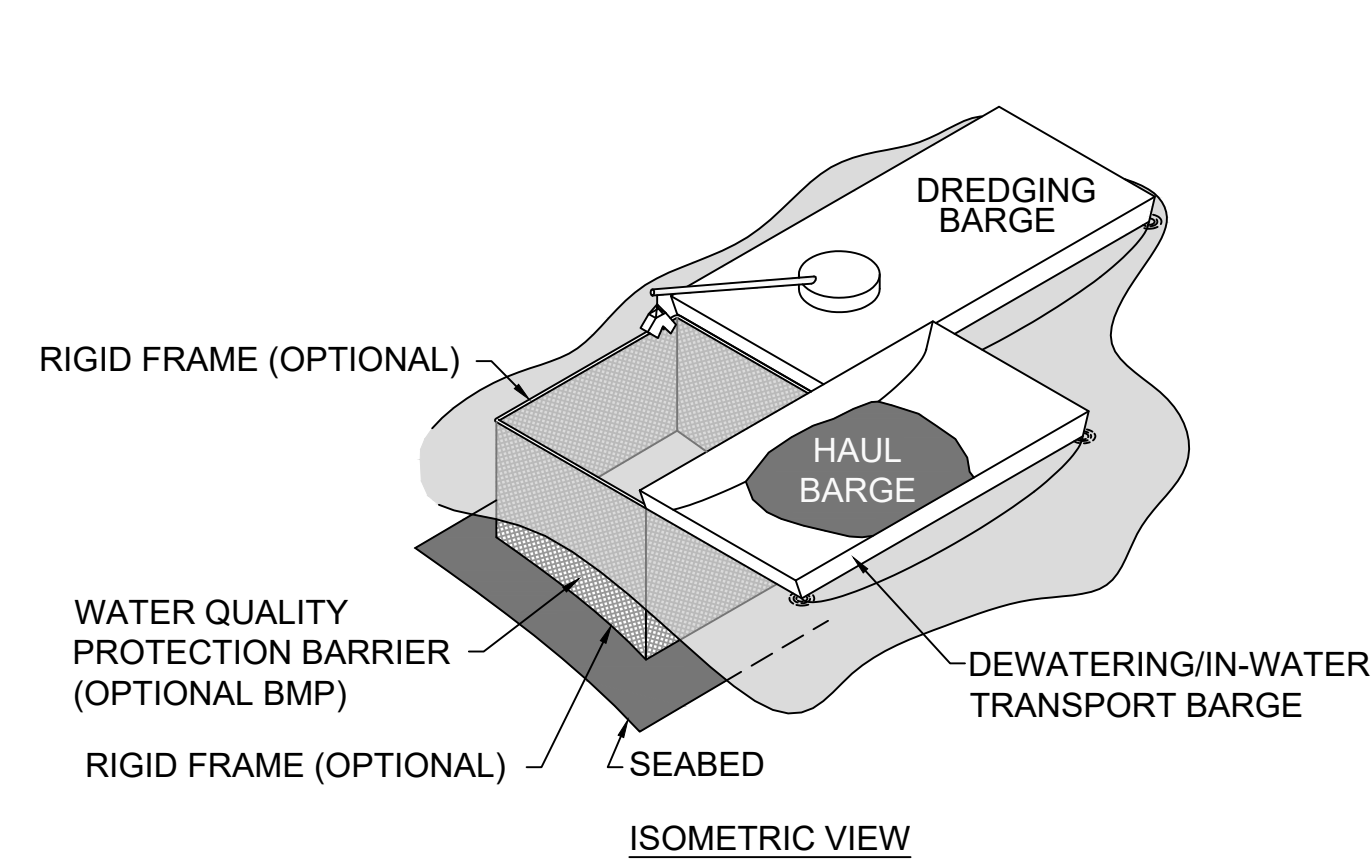
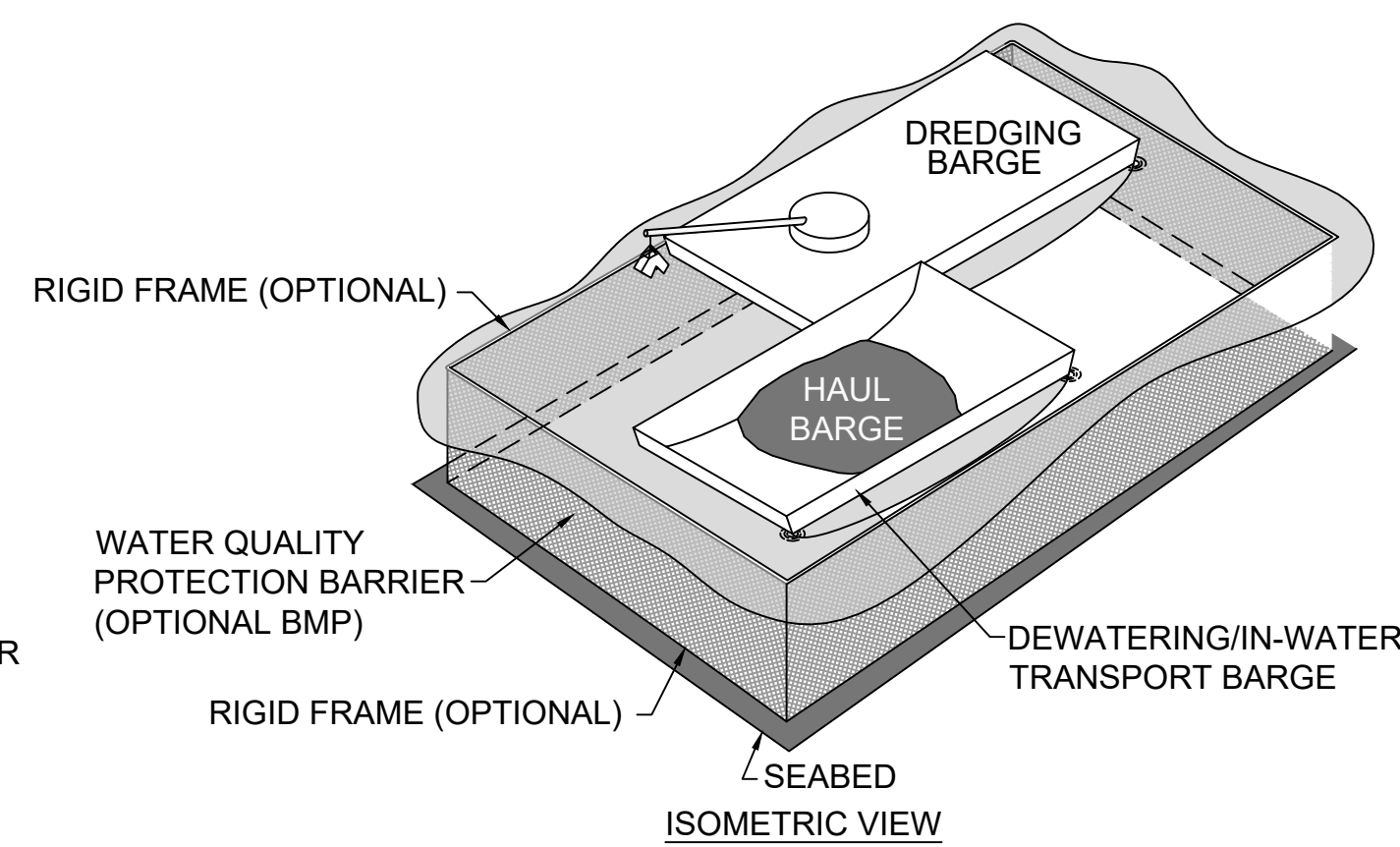


PHOTO 3: EXAMPLE OF OFFLOADING TO TRUCKS OPERATIONAL CONTROLS



CONCEPTUAL WATER QUALITY PROTECTION BARRIER ARRANGEMENTS

DETAIL 2
 SCALE: NONE



CONCEPTUAL WATER QUALITY PROTECTION BARRIER ARRANGEMENTS

DETAIL 3
 SCALE: NONE

OFFLOAD FROM HAUL BARGE

DETAIL 4
 SCALE: NONE

NOTE:

THIS SHEET SHOWS EXAMPLES OF BMP CONTROLS FOR STAGING AND STOCKPILING, OFFLOADING, AND WATER QUALITY MANAGEMENT. THE CONTRACTOR SHALL PROVIDE PROPOSED BMP'S IN THE RAWP.

NOT FOR BIDDING

COLOR IMAGE

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NO	REVISION DESCRIPTION	BY	APVD	DATE



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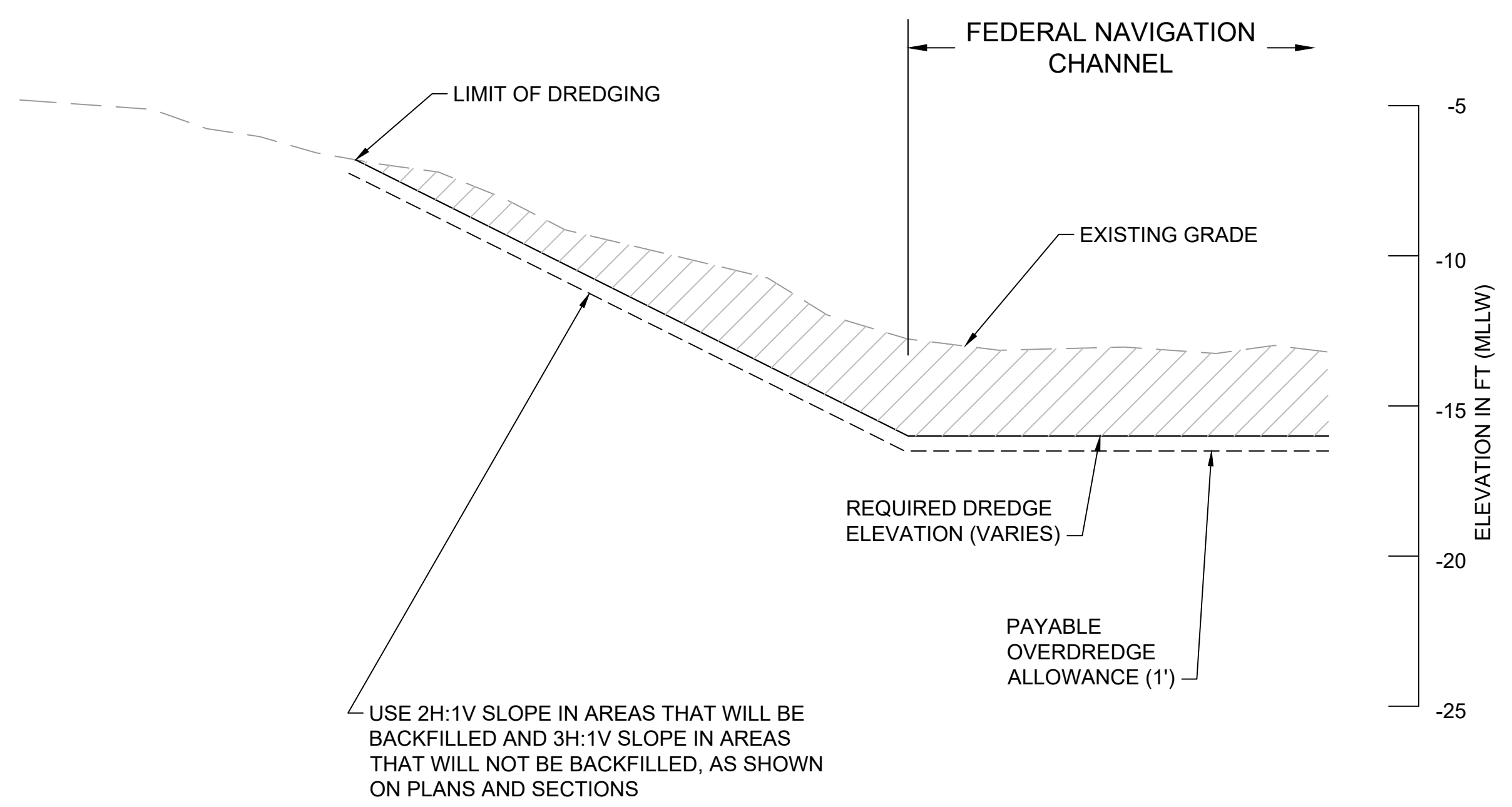
DESIGNED/DRAWN: K. GROSS
 PROJECT ENGINEER: J. LAPLANTE
 DESIGN APPROVAL: T. WANG
 PROJECT ACCEPTANCE: PRJCT MNGR
 CHECKED: BIGSBY/GRIGA
 SCALE: AS NOTED
 PROJECT FILE NO: E00559E18
 CONTRACT NO: C0XXXXCX



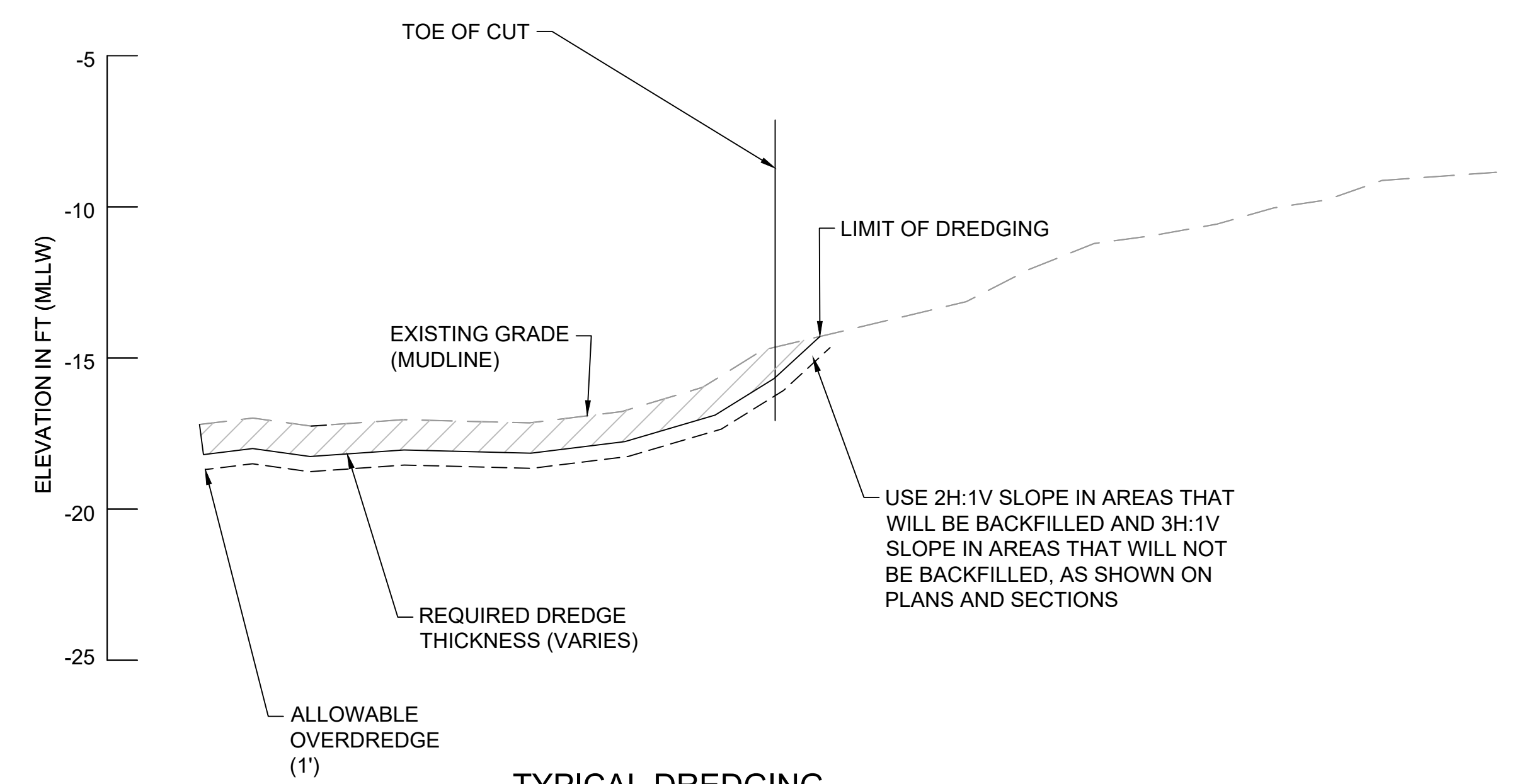
DEPARTMENT OF NATURAL RESOURCES & PARKS
 WASTEWATER TREATMENT DIVISION
 LOWER DUWAMISH WATERWAY UPPER REACH
 SEDIMENT CLEANUP
OFFLOADING, STOCKPILING, AND BMPs

DATE: JULY 2023
 DRAWING NO: **C301**
 SHT NO / TOTAL: 69 / 87
 REV NO: **0**

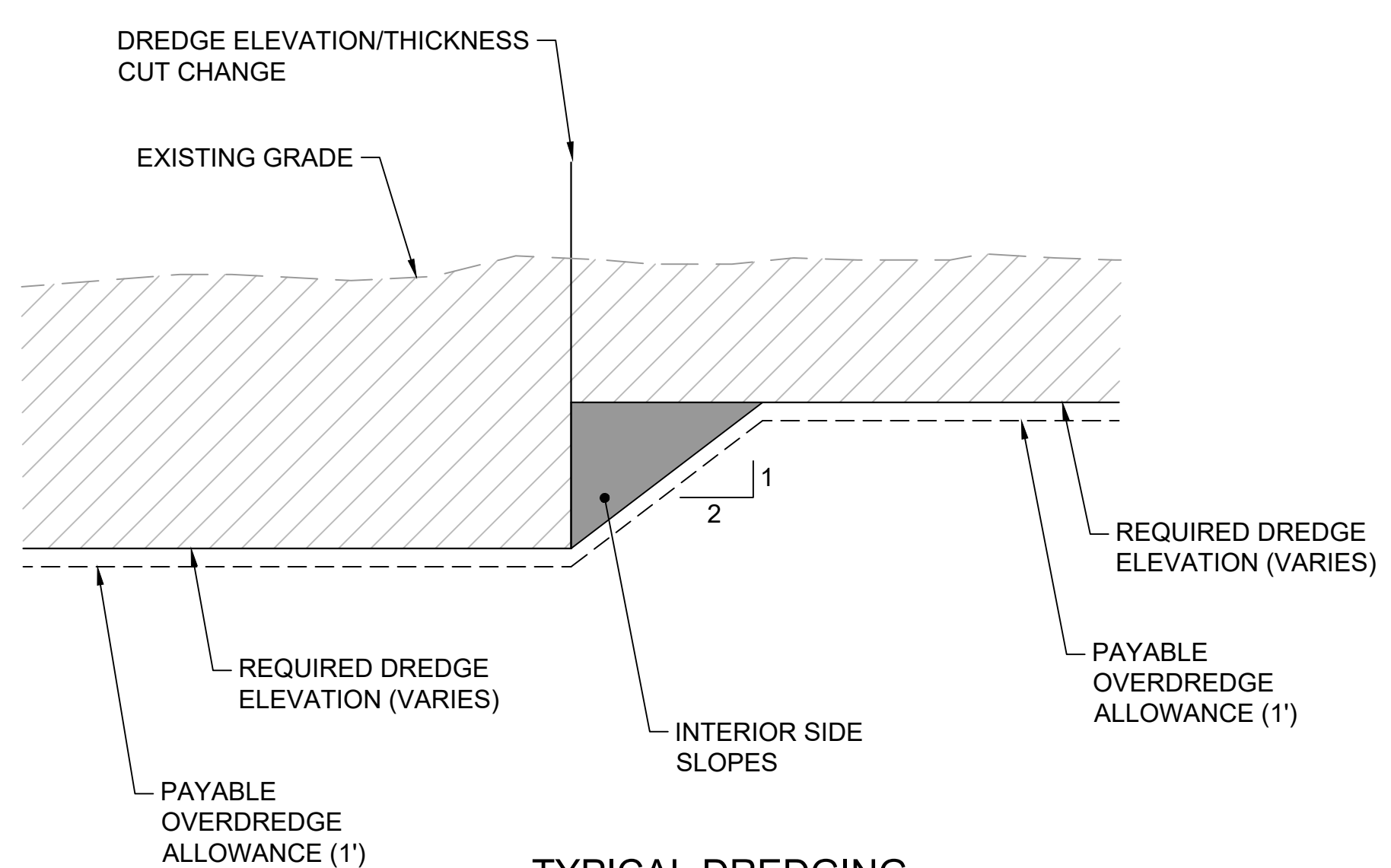
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 PLOTTED: Jul 23, 2023 04:50:23pm By: tgriga



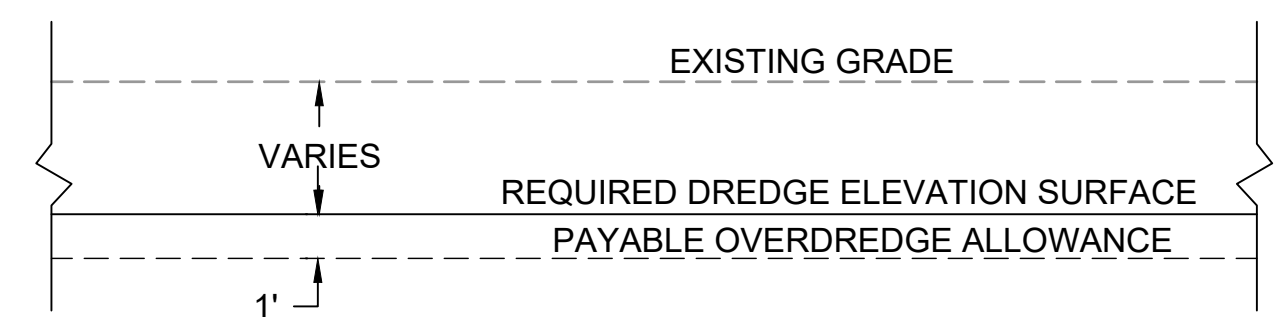
**TYPICAL DREDGING
 (REQUIRED DREDGE ELEVATION)**
 DETAIL 1
 SCALE: NONE



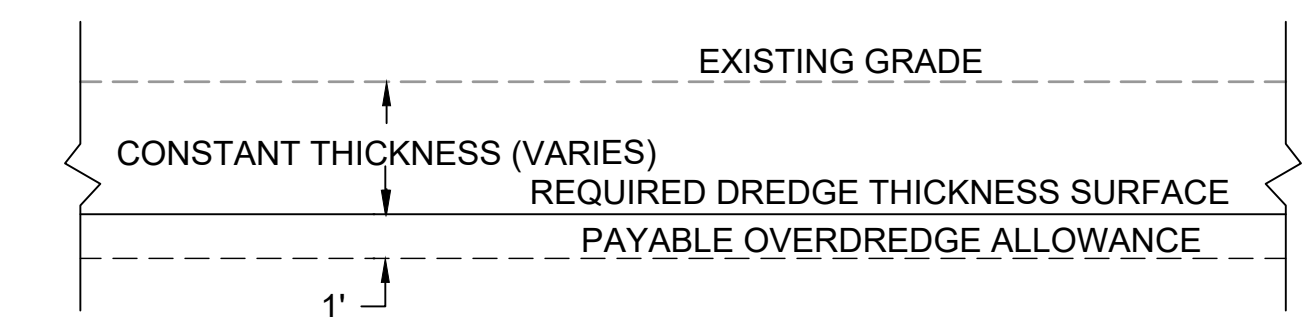
**TYPICAL DREDGING
 (REQUIRED DREDGE THICKNESS)**
 DETAIL 2
 SCALE: NONE



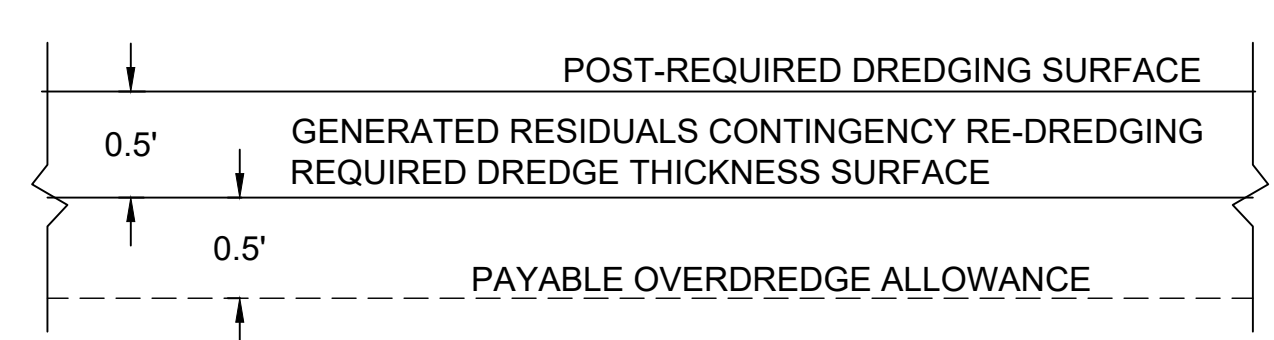
**TYPICAL DREDGING
 (INTERIOR SIDE SLOPES)**
 DETAIL 3
 SCALE: NONE



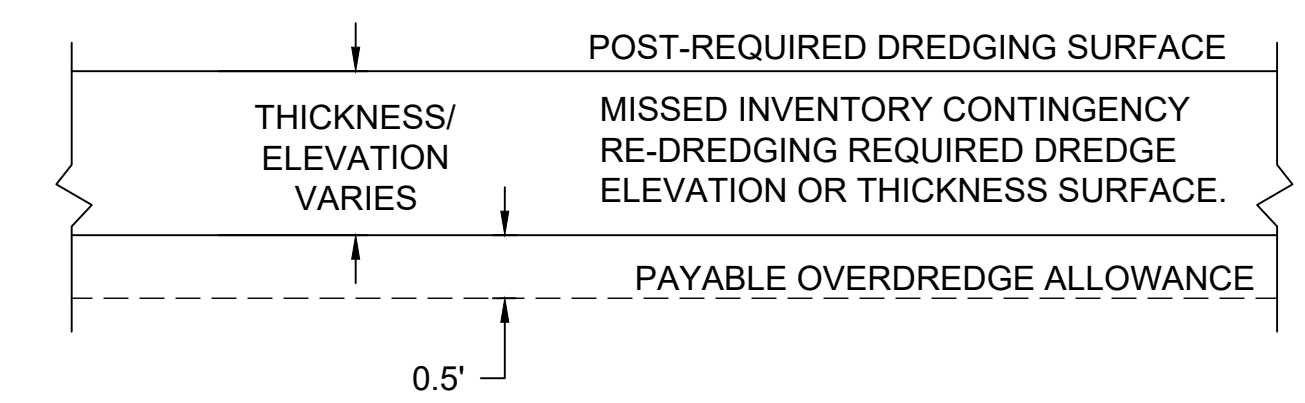
**REQUIRED DREDGING
 (REQUIRED DREDGE ELEVATION)**
 DETAIL 4
 SCALE: NONE



**REQUIRED DREDGING
 (REQUIRED DREDGE THICKNESS)**
 DETAIL 5
 SCALE: NONE



**GENERATED RESIDUALS
 CONTINGENCY RE-DREDGING**
 DETAIL 6
 SCALE: NONE



**MISSED INVENTORY
 CONTINGENCY RE-DREDGING**
 DETAIL 7
 SCALE: NONE

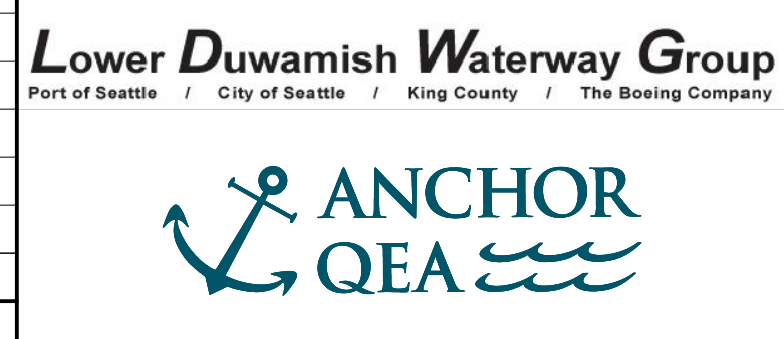
NOTES:
 1. GENERAL RESIDUALS CONTINGENCY RE-DREDGING LOCATIONS WILL BE DIRECTED BY THE PROJECT REPRESENTATIVE BASED ON POST-DREDGE CONFIRMATORY SAMPLING TEST RESULTS.

NOTES:
 1. MISSED INVENTORY CONTINGENCY RE-DREDGING LOCATIONS AND THICKNESS OR ELEVATION WILL BE DIRECTED BY THE PROJECT REPRESENTATIVE BASED ON POST-DREDGE CONFIRMATORY SAMPLING TEST RESULTS.

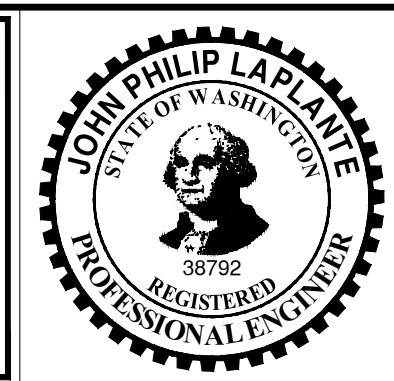
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 JULY 2023



DESIGNED/DRAWN: K. GROSS
 PROJECT ENGINEER: J. LAPLANTE
 DESIGN APPROVAL: T. WANG
 PROJECT ACCEPTANCE: PRJCT MNGR

CHECKED: BIGSBY/GRIGA
 SCALE: AS NOTED
 PROJECT FILE NO: E00559E18
 CONTRACT NO: C0XXXXCX

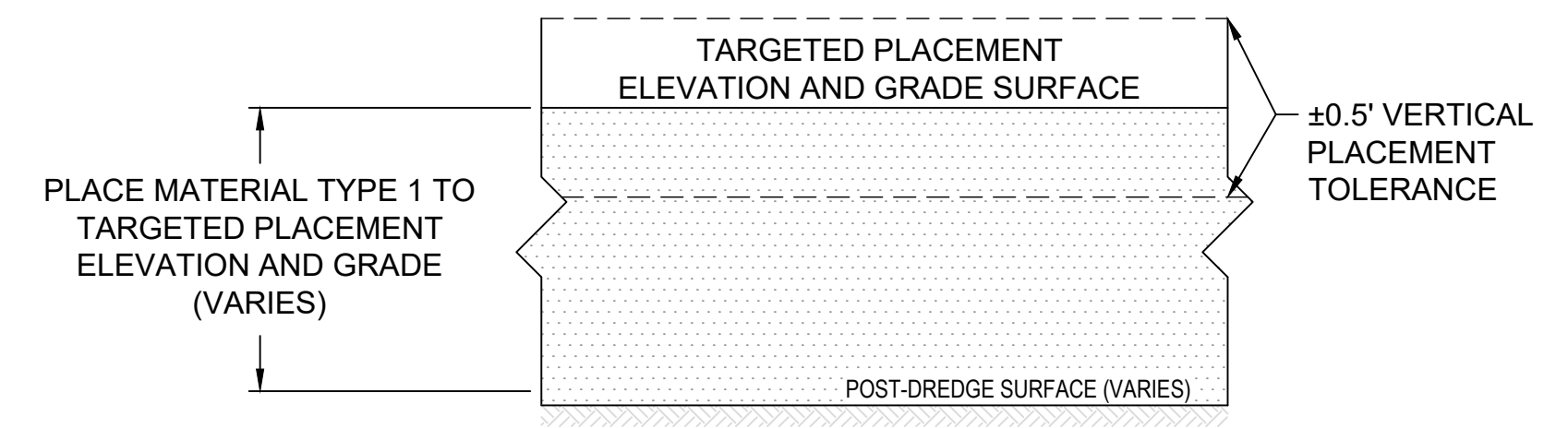


DEPARTMENT OF NATURAL RESOURCES & PARKS
 WASTEWATER TREATMENT DIVISION
 LOWER DUWAMISH WATERWAY UPPER REACH
 SEDIMENT CLEANUP

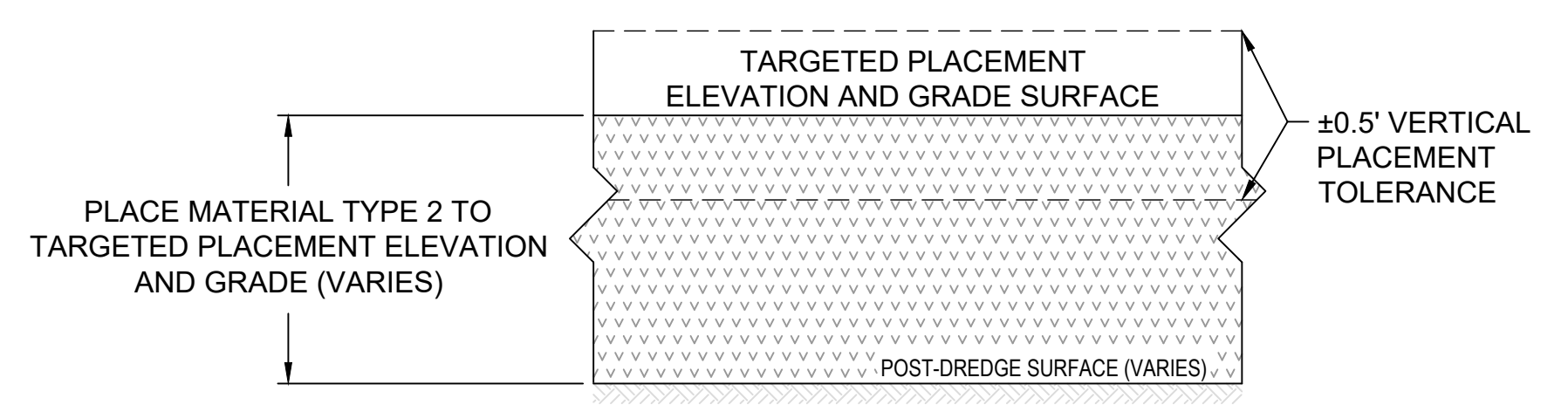
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DATE: JULY 2023
 DRAWING NO: **C302**
 SHT NO / TOTAL: 70 / 87
 REV NO: **0**

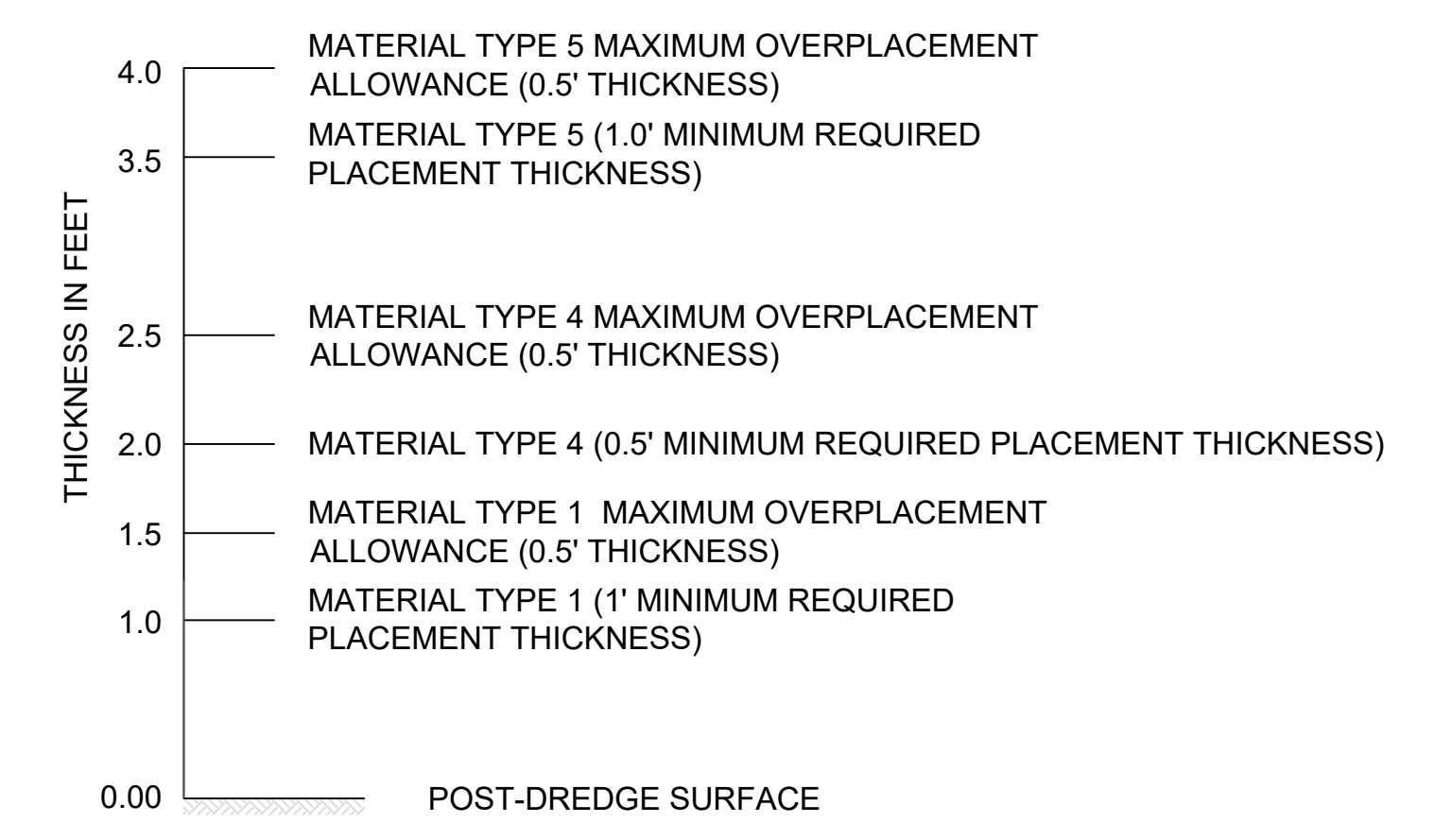
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 PLOTTED: Jul 23, 2023 04:50:24pm By: tgriga



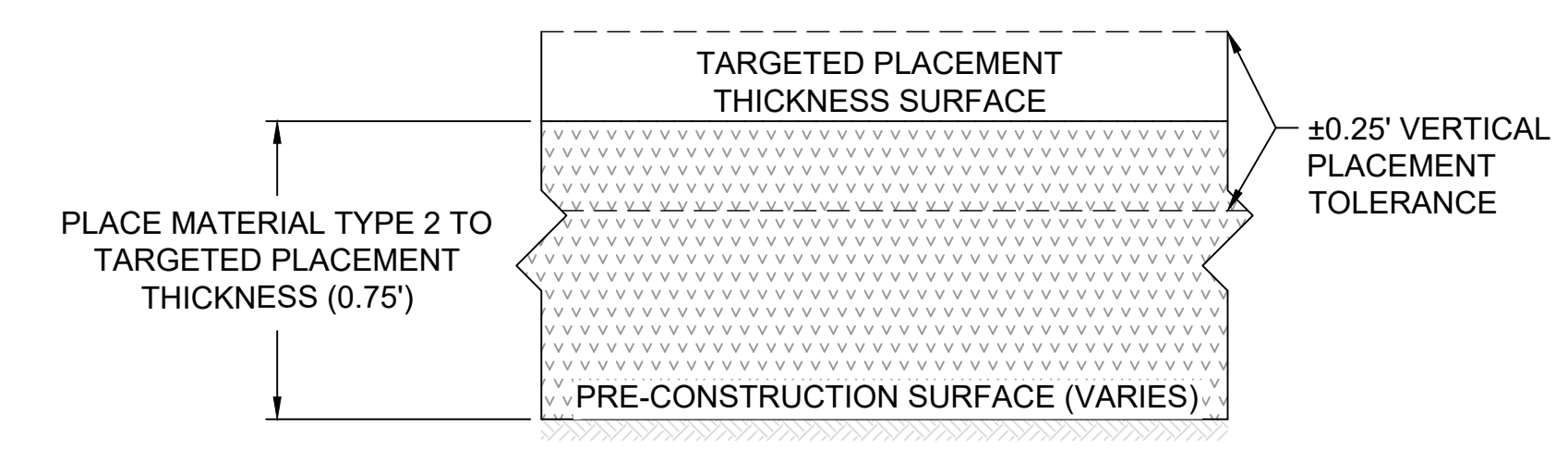
BACKFILL A
 DETAIL 1
 SCALE: NONE



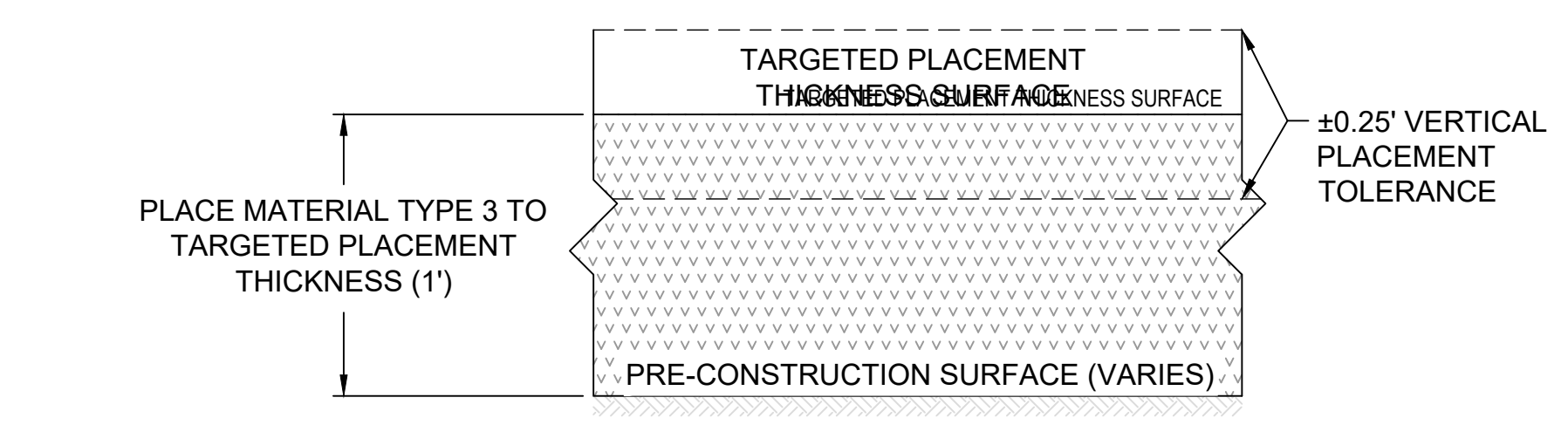
BACKFILL B
 DETAIL 2
 SCALE: NONE



NOTE:
 1. TOTAL ENGINEERED CAP PLACEMENT THICKNESS MAY VARY BETWEEN A MINIMUM TOTAL THICKNESS OF 2.5' AND UP TO 4.0'. THE MAXIMUM OVERPLACEMENT ALLOWANCE FOR EACH LAYER AND WILL BE PAYABLE. ADDITIONAL PLACEMENT ABOVE 4.0' WILL BE CONSIDERED EXCESSIVE OVERPLACEMENT AND WILL NOT BE PAID. TOP OF ENGINEERED CAP IN SMA 12B SHALL NOT BE ABOVE -19' MLLW. PROJECT REPRESENTATIVE MAY DIRECT THE CONTRACTOR TO REMOVE EXCESSIVE OVERPLACEMENT AT NO EXTRA COST TO THE OWNER.

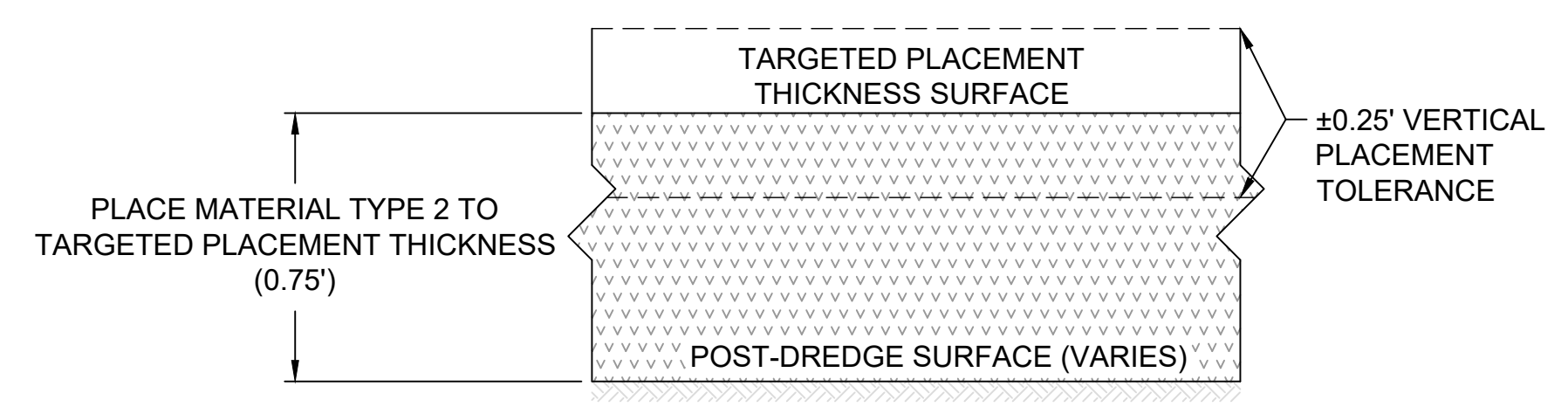


ENR
 DETAIL 3
 SCALE: NONE

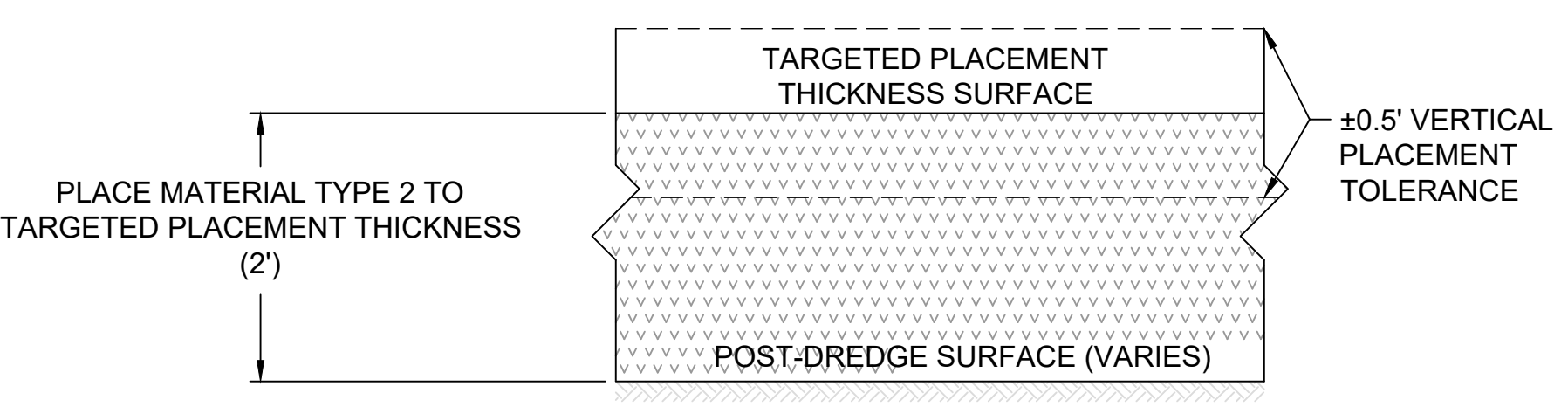


AMENDED COVER
 DETAIL 4
 SCALE: NONE

ENGINEERED CAP A AND B
 DETAIL 5
 SCALE: NONE



REQUIRED RMC (WITHIN DREDGE FOOTPRINT), INNER PERIMETER RMC, AND CONTINGENT OUTER PERIMETER RMC
 DETAIL 6
 SCALE: NONE

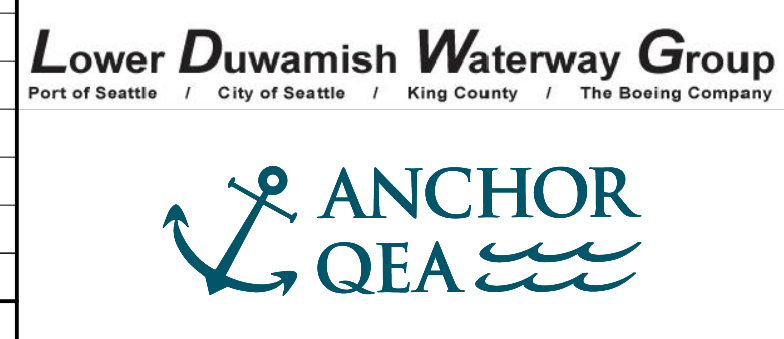


REQUIRED RMC ON SIDESLOPES
 DETAIL 7
 SCALE: NONE

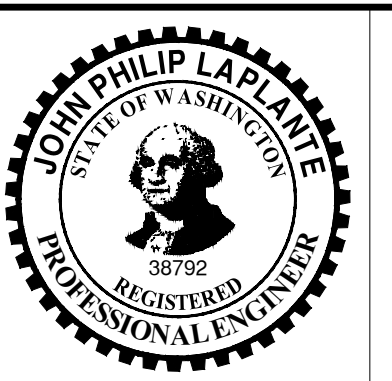
COLOR IMAGE
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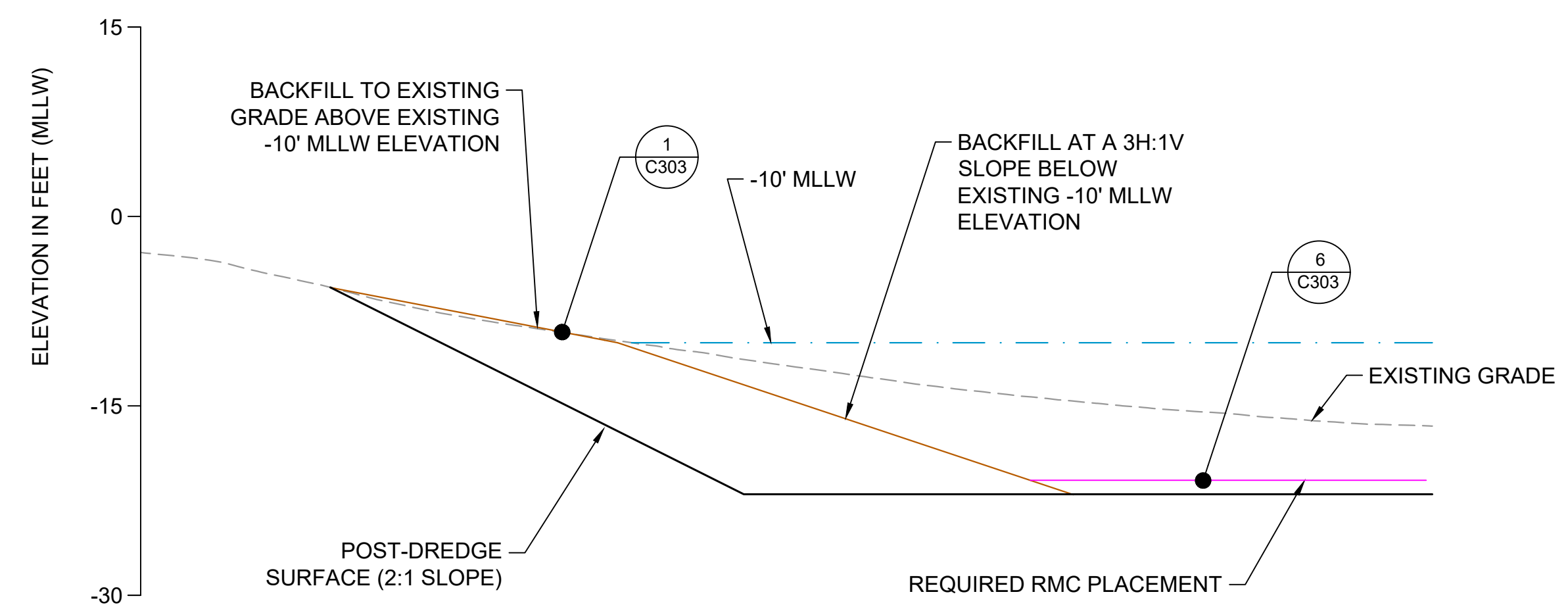
DESIGNED/DRAWN: K. GROSS
 PROJECT ENGINEER: J. LAPLANTE
 DESIGN APPROVAL: T. WANG
 PROJECT ACCEPTANCE: PRJCT MNGR



DEPARTMENT OF NATURAL RESOURCES & PARKS
 WASTEWATER TREATMENT DIVISION
 LOWER DUWAMISH WATERWAY UPPER REACH
 SEDIMENT CLEANUP
MATERIAL PLACEMENT DETAILS
 (1 OF 2)

DATE: JULY 2023
 DRAWING NO: **C303**
 SHIT NO / TOTAL: 71 / 87
 REV NO: **0**

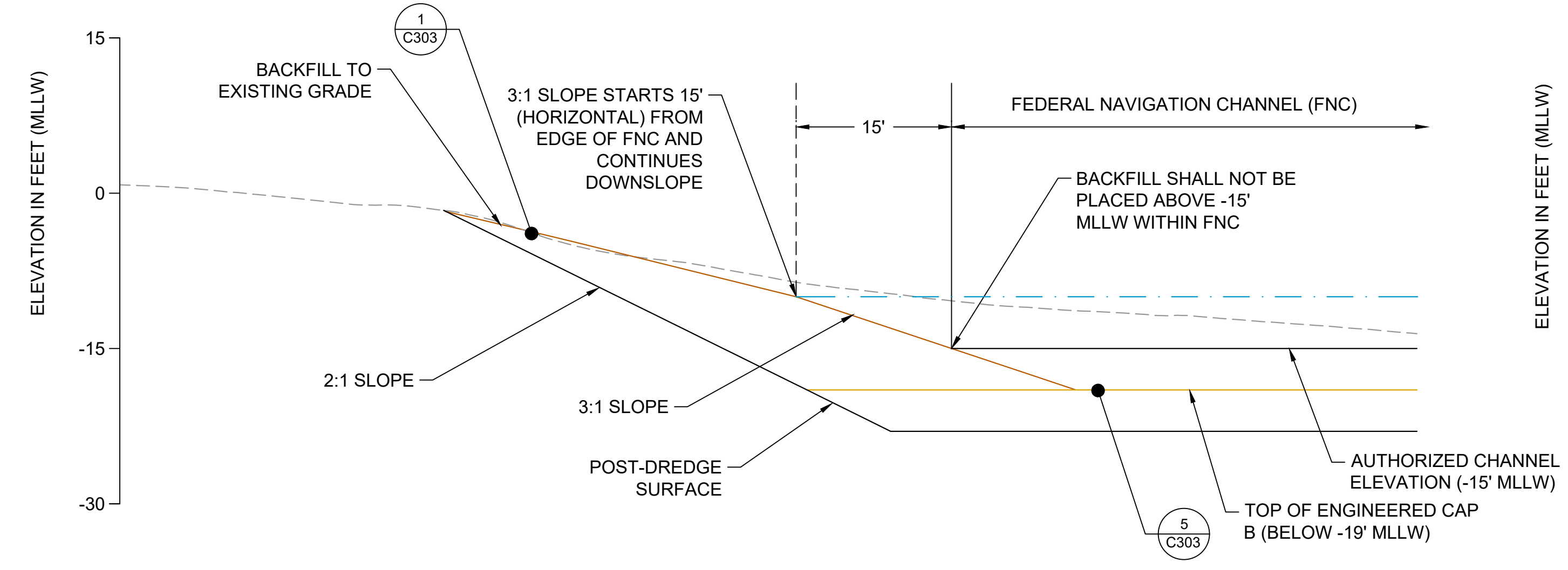
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 PLOTTED: Jul 23, 2023 04:50:26pm By: tgriga



BACKFILL A PLACEMENT ABOVE AND BELOW EXISTING -10' MLLW ELEVATION AND TRANSITION TO REQUIRED RMC PLACEMENT

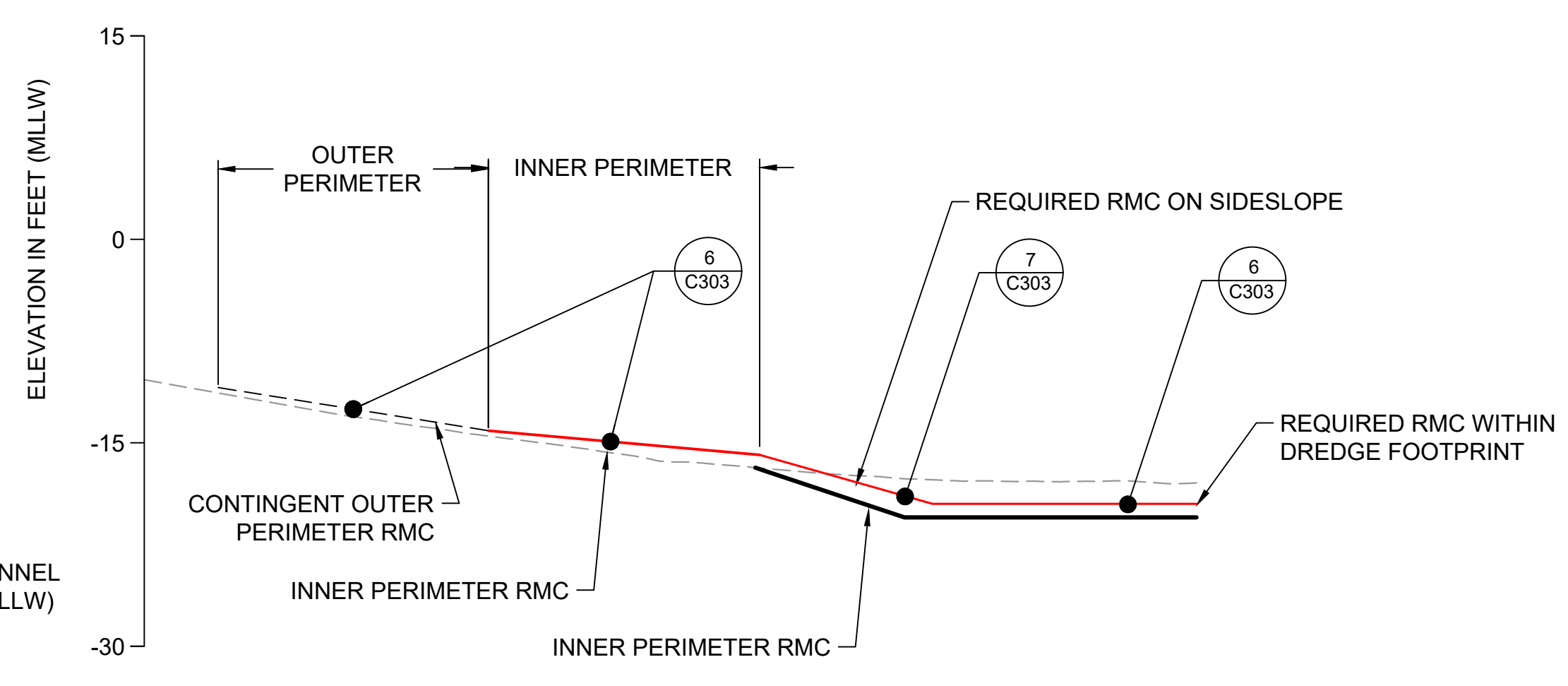
NOTE:
 1. PLACE BACKFILL BEFORE PLACING REQUIRED RMC.

DETAIL 1
 SCALE: NONE



BACKFILL DETAIL FOR SMA 12B

DETAIL 2
 SCALE: NONE



NOTE:
 1. INNER PERIMETER RMC AND CONTINGENT OUTER PERIMETER RMC PLACEMENT AREAS ARE SHOWN ON DRAWING C151 THROUGH C162.

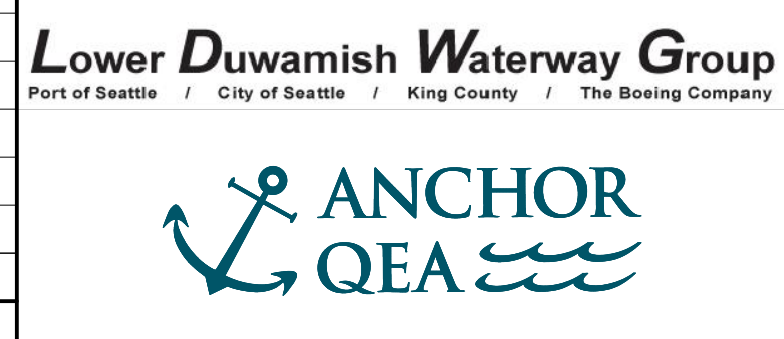
REQUIRED RMC PLACEMENT AND INNER AND OUTER DREDGE PERIMETERS

DETAIL 3
 SCALE: NONE

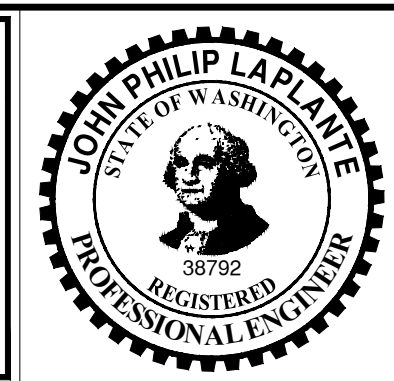
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 PROJECT ENGINEER: J. LAPLANTE
 DESIGN APPROVAL: T. WANG
 PROJECT ACCEPTANCE: PRJCT MNGR
 CHECKED: BIGSBY/GRIGA
 SCALE: AS NOTED
 PROJECT FILE NO: E00559E18
 CONTRACT NO: C0XXXXCXX



DEPARTMENT OF NATURAL RESOURCES & PARKS
 WASTEWATER TREATMENT DIVISION
 LOWER DUWAMISH WATERWAY UPPER REACH
 SEDIMENT CLEANUP
MATERIAL PLACEMENT DETAILS
(2 OF 2)

DATE: JULY 2023
 DRAWING NO: **C304**
 SHT NO / TOTAL: 72 / 87
 REV NO: **0**

ABBREVIATIONS

#	NUMBER, POUNDS	MAX	MAXIMUM
&	AND	MHHW	MEAN HIGH HIGH WATER
@	AT	MIN	MINIMUM
AB	ANCHOR BOLT	MISC	MISCELLANEOUS
AP	ANGLE POINT	MLLW	MEAN LOW LOW WATER
APPROX	APPROXIMATE	MLW	MEAN LOW WATER
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	MSL	MEAN SEA LEVEL
		N	NEUTRAL, NORTH, NORTHING
BLDG	BUILDING	N/A	NOT APPLICABLE
BOT	BOTTOM	NF	NEAR FACE
BTWN	BETWEEN	NO	NUMBER
		NTS	NOT TO SCALE
CDF	CONTROLLED DENSITY FILL	OC	ON CENTER, CENTERS
CIP	CAST-IN-PLACE	OD	OUTSIDE DIAMETER
CJ	CONSTRUCTION JOINT	OF	OUTSIDE FACE
CL	CENTER LINE	OH	OVERHEAD
CLR	CLEAR	OPNG	OPENING
CONC	CONCRETE	OPP	OPPOSITE
CONN	CONNECTION		
CONT	CONTINUOUS	PL	PROPERTY LINE OR PLATE
COORD	COORDINATE	PSE	PUGET SOUND ENERGY
COS	CITY OF SEATTLE	PSF	POUNDS PER SQUARE FOOT
		PSI	POUNDS PER SQUARE INCH
DI	DUCTILE IRON	PT	POINT, POINT OF TANGENCY, PRESSURE TREATED
DIA	DIAMETER	PVC	POLYVINYL CHLORIDE
DICA	DRILLED IN CONCRETE ANCHOR		
DIM	DIMENSION	R, RAD	RADIUS, RISER
DIP	DUCTILE IRON PIPE	RCP	REINFORCED CONCRETE PIPE
DP	DEPTH, DEEP	REBAR	REINFORCEMENT BAR
DWG	DRAWING	REF	REFER TO / REFERENCE
		REINF	REINFORCEMENT OR REINFORCING
E	EAST, EASTING	REQD	REQUIRED
EA	EACH	ROW, R/W	RIGHT-OF-WAY
EF	EACH FACE		
EG	EXISTING GRADE	SCH	SCHEDULE
EJ	EXPANSION JOINT	SCL	SEATTLE CITY LIGHT
EL	ELEVATION	SECT	SECTION
EMBD	EMBEDDED	SF	SQUARE FOOT
EQ	EQUAL	SHT	SHEET
ES	EACH SIDE	SIM	SIMILAR
EW	EACH WAY	SPCG	SPACING
EXIST	EXISTING	SPEC(S)	SPECIFICATION(S)
EXP	EXPANSION	SPU	SEATTLE PUBLIC UTILITIES
		SS	STAINLESS STEEL
FDN	FOUNDATION	STA	STATION
FF	FAR FACE OR FINISHED FLOOR	STD	STANDARD
FG	FINISHED GRADE	STL	STEEL
FIN	FINISHED	STRUC	STRUCTURAL
FT	FEET OR FOOT	SUPT	SUPPORT
FTG	FOOTING	SYM	SYMMETRICAL
		TEMP	TEMPORARY
GA	GAUGE, GAGE	T&B	TOP AND BOTTOM
GALV	GALVANIZED	TOC	TOP OF CONCRETE
		TOF	TOP OF FOOTING
HDPE	HIGH-DENSITY POLYETHYLENE	TOS	TOP OF STEEL
HORIZ	HORIZONTAL	TOW	TOP OF WALL
HP	HIGH POINT	TRANS	TRANSVERSE
		TYP	TYPICAL
IBC	INTERNATIONAL BUILDING CODE	UNO	UNLESS NOTED OTHERWISE
ID	INSIDE DIAMETER	VERT	VERTICAL
IE	INVERT ELEVATION		
IF	INSIDE FACE	w/	WITH
IN	INCH	w/o	WITHOUT
INFO	INFORMATION	WP	WORK POINT
JT	JOINT		
K	KIPS (1,000 POUNDS)		
KC	KING COUNTY		
KCDNR	KING COUNTY DEPARTMENT OF NATURAL RESOURCES		
KIP(S)	THOUSAND POUNDS		
KSF	KIPS PER SQUARE FOOT		
KSI	KIPS PER SQUARE INCH		
L	LENGTH OR ANGLE		
LB	POUND		
LF	LINEAR FEET		
LOC	LOCATION		
LONGIT	LONGITUDINAL		
LP	LOW POINT		
LVL	LEVEL		

LEGEND

ELEVATION NUMBER IDENTIFIER

SECTION LETTER IDENTIFIER

DESCRIPTIVE SUBTITLE

ELEVATION
SCALE: 1/4"=1'-0"

SECTION
SCALE: 1/4"=1'-0"

DRAWING ON WHICH ELEVATION APPEARS, OR: "-" IF SHOWN ON SAME SHEET

SECTION CUT SYMBOL

DRAWING ON WHICH SECTION APPEARS, OR: "-" IF SHOWN ON SAME SHEET

PHOTOGRAPH NUMBER IDENTIFIER

DESCRIPTIVE SUBTITLE

PHOTO
SCALE: NONE

DRAWING ON WHICH PHOTO APPEARS, OR: "-" IF SHOWN ON SAME SHEET

DETAIL NUMBER IDENTIFIER

DESCRIPTIVE SUBTITLE

DETAIL
SCALE: 1"=1'-0"

DRAWING ON WHICH DETAIL APPEARS, OR: "-" IF SHOWN ON SAME SHEET

SITE PLAN
SCALE: 1/8"=1'-0"

GENERAL NOTES:

- FIRST NOTE
- SECOND NOTE

KEY NOTES:

① FIRST NOTE

② SECOND NOTE

KEY NOTE INDICATORS

STRUCTURAL LEGEND:

- CONCRETE
- EARTH
- BACKFILL
- EXISTING STRUCTURE TO BE REMOVED
- EXISTING STRUCTURE ABANDON IN PLACE
- STEEL

NORTH ARROW

ENGINEERING GRAPHIC SCALE (FOR 20 SCALE)

0 20 40 60
1" = 20'

SEDIMENT MANAGEMENT AREA NUMBER

#

BORDER FILE EDITION: xKCVTD-Size-TB-Border: AQBLayer
 T:\252 Series - Anchor QEA\252.01 Eng Svcs for Sediment Cleanup of Upper Reach of Lower Duwamish Waterway E00559E\Drawings\Structural\SCAD-LDWUR_s-001.dwg | Layout: S001
 PLOTTED: Jul 20, 2023 03:15:59pm By SLor

NO	REVISION DESCRIPTION	BY	APVD	DATE

Lower Duwamish Waterway Group
 Port of Seattle / City of Seattle / King County / The Boeing Company

BRIGHT ENGINEERING, INC.
 STRUCTURAL & CIVIL ENGINEERING

1809 7th AVENUE
 Suite 1100
 SEATTLE, WA 98101
 P: (206) 625-3777
 F: (206) 625-1851

PRE-FINAL ISSUE DRAWING
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JULY 2023



DESIGNED/DRAWN: S. LOR	CHECKED: I. IKEDA
PROJECT ENGINEER: A. BRIGHT	SCALE: AS NOTED
DESIGN APPROVAL:	PROJECT FILE NO: E00559E18
PROJECT ACCEPTANCE: PRJCT MNGR	CONTRACT NO: C0XXXXCXX



DEPARTMENT OF NATURAL RESOURCES & PARKS
 WASTEWATER TREATMENT DIVISION
 LOWER DUWAMISH WATERWAY UPPER REACH
 SEDIMENT CLEANUP

**STRUCTURAL ABBREVIATIONS
 AND SYMBOLS**

DATE:	JULY 2023
DRAWING NO:	S001
WP701-G-00001	
SHT NO / TOTAL	73 / 87
REV NO:	0

STRUCTURAL GENERAL NOTES

DESIGN CRITERIA

APPLICABLE BUILDING NOTES AND CODES
INTERNATIONAL BUILDING CODE, IBC 2018 EDITION, EXCEPT WHERE OTHER CODES ARE MORE RESTRICTIVE.

OUTFALLS AND STRUCTURE PROTECTION

ALL OUTFALLS OR STRUCTURES NEAR DREDGING OR EXCAVATION SHALL BE PROTECTED PRIOR TO START OF WORK.

FOUNDATION PILING

CONSULT SOILS REPORT BY ANCHOR QEA ENGINEERS, DATED AUGUST 2022 FOR FOUNDATION DREDGING AND BACKFILL INFORMATION

STRUCTURAL STEEL PILES

STEEL PIPE PILES - 14" DIA WITH 1/2" MINIMUM WALL THICKNESS PER ASTM A252, GRADE 3 (MOD), fy= 50 ksi OR API 5Lx42 OR API 5Lx52.

SHEET PILES

INTERLOCKING STEEL SHEET PILES SHALL BE NEW, CONFORMING TO ASTM A572, GRADE 50.

MINIMUM WEB OR FLANGE THICKNESS = 0.40 INCHES
MINIMUM ELASTIC SECTION MODULUS = 88.0 IN³/FT
SHEET PILES SHALL BE SUPPLIED IN DOUBLE SECTIONS WHEREVER POSSIBLE.

WELDING

ALL WELDING SHALL CONFORM TO AWS D1.1 WELDING CODE. MINIMUM SIZE WELDS 3/16" CONTINUOUS FILLET. WELDING ELECTRODES SHALL BE 70XX SERIES CONFORMING TO ANSI/AWS D1.1 TABLE 3.1 AND ELECTRODE SPECIFICATION AWS A5. WELDING SHALL BE CONDUCTED BY WABO CERTIFIED WELDER.

PAINTING

STRUCTURAL STEEL SHALL BE COATED IN CONFORMANCE WITH SPECIFICATIONS

CONCRETE

ALL DETAILING, FABRICATION, AND ERECTION OF REINFORCING BARS, UNLESS OTHERWISE NOTED, SHALL BE IN ACCORDANCE WITH MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES ACI 315, LATEST EDITION. CONCRETE CONSTRUCTION SHALL CONFROM TO ACI 318 BUILDING CODE, LATEST EDITION.

DESIGN STRENGTH

UNDERWATER CEMENT GROUT SHALL CONFORM TO ASTM C1107 AND CRD-C-621
fc= 5000 psi AT 28 DAYS

REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ASTM A615, GRADE 60.

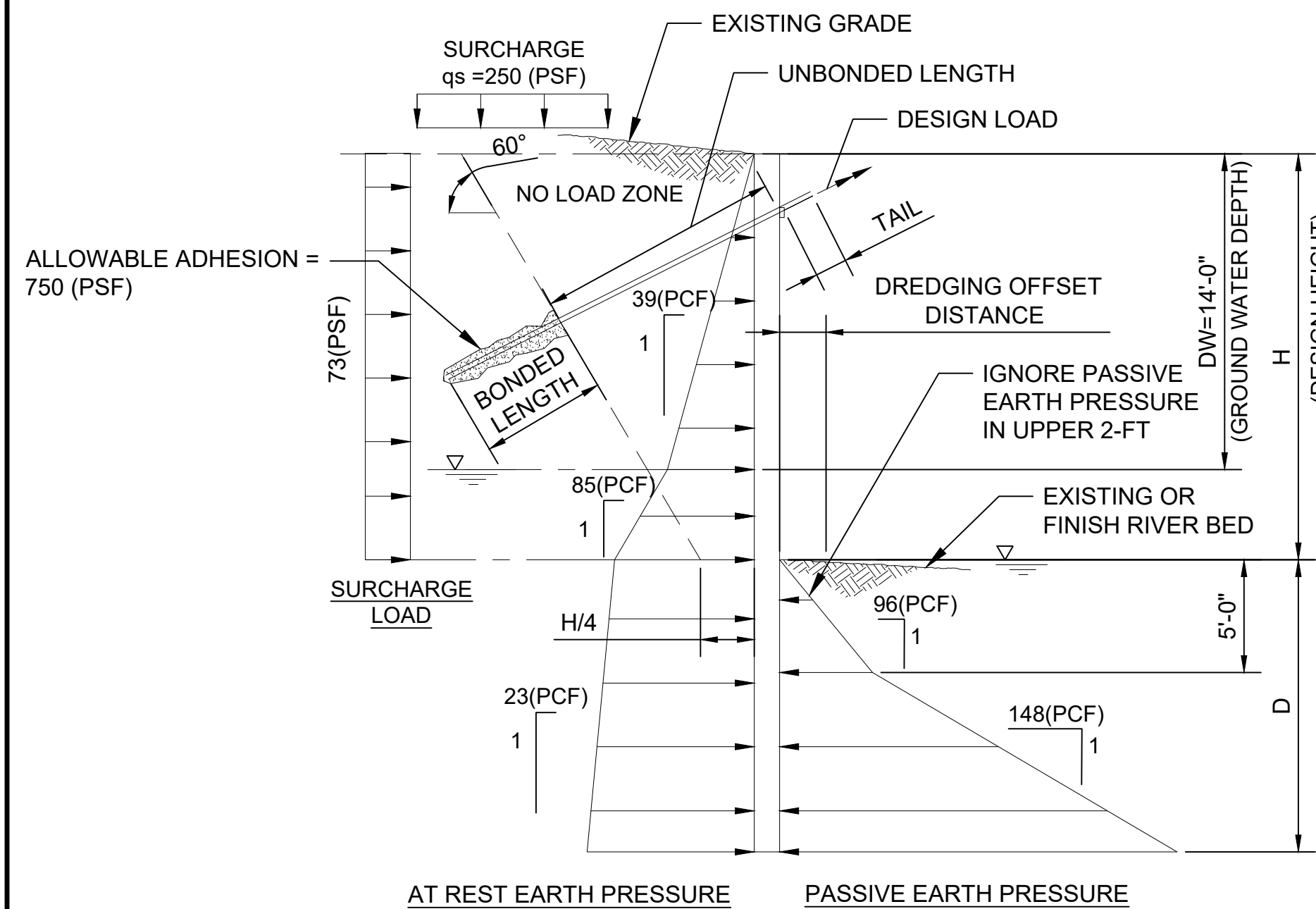
MISCELLANEOUS

SUBMIT ALL REQUIRED SHOP DRAWINGS AND RECEIVE THEIR SATISFACTORY REVIEW FROM THE PROJECT REPRESENTATIVE PRIOR TO FABRICATION.

COORDINATE AND VERIFY ALL DIMENSIONS WITH GENERAL AND CIVIL DRAWINGS AND CONDITIONS AT THE PROJECT SITE PRIOR TO STARTING WORK AND NOTIFY THE PROJECT REPRESENTATIVE IMMEDIATELY OF ANY DISCREPANCIES.

PROVIDE TEMPORARY ERECTION BRACING AND SHORING AS REQUIRED FOR STABILITY OF THE STRUCTURE AND ADJACENT STRUCTURES, DURING ALL PHASES OF CONSTRUCTION. REFER TO PROJECT SPECIFICATIONS FOR INFORMATION NOT CONTAINED IN THESE GENERAL NOTES.

SOIL PRESSURE DIAGRAM



PASSIVE EARTH PRESSURE REDUCTION FACTORS			
OFFSET DISTANCE	REDUCTION FACTOR		
	2H:1V	1.5H:1V	1H:1V
0	0.75	0.56	0.38
2	0.85	0.66	0.48
4	0.95	0.76	0.58

L-PILE MODELING PARAMETERS						
LAYERS	EFFECTIVE UNIT WEIGHT γ'(PCF)	FRICTION ANGLE Φ (DEG)	UNDRAINED SHEAR STRENGTH Cu (KSF)	P.Y CURVE MODEL	SPRING CONSTANT:K (Es=Kx) K (PCI)	STRAIN FACTOR; @50% MAX E ε50
RECENT SEDIMENT	36	27	0.08	SOFT CLAY (MATLOCK)	-	0.020
ALLUVIUM	61	32	-	SAND (REESE)	20	-

NOTES:

1. DIAGRAM APPLIES TO DRILLED SOLDIER PILE WALLS WITH TIMBER LAGGING AND SHEET PILE WALLS DESIGNED AS A CANTILEVERED WALL OR WITH A SINGLE ROW OF TIEBACK.
2. ALL PRESSURES EXPRESSED AS AN EQUIVALENT FLUID UNIT WEIGHT.
3. ACTIVE EARTH AND SURCHARGE PRESSURES ACT OVER THE PILE SPACING WITHIN RETAINED WALL HEIGHT AND OVER PILE WIDTH OR SHAFT DIAMETER BELOW BOTTOM OF EXCAVATION, WHICHEVER IS LESSER.
4. PASSIVE EARTH PRESSURE ACTS OVER 2 TIMES SHAFT DIAMETER OR PILE WIDTH; OR PILE SPACING, WHICHEVER IS LESSER
5. 50% OF ACTIVE AND SURCHARGE PRESSURES ACT ON ALL LAGGING BETWEEN SOLDIER PILES.
6. PASSIVE RESISTANCE ARE ULTIMATE VALUES. DIVIDE WITH A SAFETY FACTOR OF 1.5 FOR ALLOWABLE VALUE.

CANTILEVER SOLDIER PILE OR SHEET PILE

PRESSURE DIAGRAM

SCALE: NTS

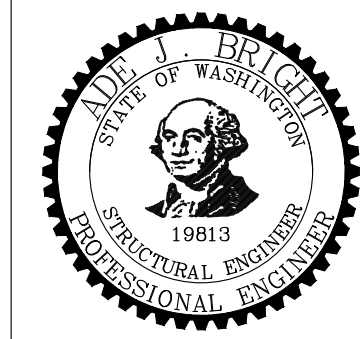
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NO	REVISION DESCRIPTION	BY	APVD	DATE

Lower Duwamish Waterway Group
Port of Seattle / City of Seattle / King County / The Boeing Company

6 BRIGHT ENGINEERING, INC.
STRUCTURAL & CIVIL ENGINEERING
1809 7TH AVENUE
SUITE 1100
SEATTLE, WA 98101
P: (206) 625-3777
F: (206) 625-1851

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DESIGNED/DRAWN: S. LOR	CHECKED: I. IKEDA
PROJECT ENGINEER: A. BRIGHT	SCALE: AS NOTED
DESIGN APPROVAL:	PROJECT FILE NO: E00559E18
PROJECT ACCEPTANCE: PRJCT MNGR	CONTRACT NO: C0XXXXCX



DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
LOWER DUWAMISH WATERWAY UPPER REACH
SEDIMENT CLEANUP

**STRUCTURAL GENERAL NOTES
AND SOIL PRESSURE DIAGRAM**

DATE: JULY 2023
DRAWING NO: S002
WP701-G-00001
SHT NO / TOTAL 74 / 87
REV NO: 0

STATEMENT OF SPECIAL INSPECTIONS AND TESTING

**TABLE 1
REQUIRED SPECIAL INSPECTIONS - STRUCTURAL SYSTEMS**

SYSTEM OR MATERIAL	REQUIRED INSPECTION	FREQUENCY OF INSPECTION		REMARKS
		CONTINUOUS	PERIODIC	
SOILS	DREDGING AND IN-WATER WORK		X	31 09 00 (GEOTECHNICAL INSTRUMENTATION AND CONDITION INSPECTION)
	IDENTIFIED DEBRIS REMOVAL		X	31 09 00 (GEOTECHNICAL INSTRUMENTATION AND CONDITION INSPECTION)
CONCRETE	TREMIE CEMENT GROUT PLACEMENT		X	
STRUCTURAL STEEL	FABRICATION OF STRUCTURAL ELEMENTS		X	FABRICATOR SHALL BE APPROVED IN ACCORDANCE WITH IBC, CHAPTER 17 TO PERFORM WORK WITHOUT SPECIAL INSPECTION
	VERIFY MATERIAL FOR STRUCTURAL STEEL SHAPES, PLATES, BARS, ETC.		X	CONTRACTOR TO SUBMIT CERTIFIED MILL TEST REPORTS
	VERIFY MATERIALS FOR WELD FILLER MATERIALS		X	
	VERIFY WELDER QUALIFICATIONS		X	CONTRACTOR TO SUBMIT WELDERS CERTIFICATES
	VERIFY USE OF PROPER WELDING PROCEDURES		X	
	INSPECT COMPLETE AND PARTIAL-PENETRATION GROOVE WELDS, MULTI-PASS FILLET WELDS, AND SINGLE-PASS FILLET WELDS GREATER THAN 5/16"	X		

**TABLE 2
REQUIRED TESTING FOR SPECIAL INSPECTIONS**

SYSTEM OF MATERIAL	TESTING		REMARKS
	CODE OF STANDARD REFERENCE	FREQUENCY	
GEOTECHNICAL			
CONCRETE			
CONCRETE SLUMP	ASTM C143	WHENEVER CYLINDERS ARE CAST	
CEMENTITIOUS AND EPOXY GROUT COMPRESSIVE STRENGTH	ASTM C942 (CEMENTITIOUS) ASTM C579 (EPOXY)		TEST 2" CUBES FOR EACH GROUT SHIPMENT TO THE FIELD
STEEL			

QUALITY ASSURANCE NOTES

1. THE QUALITY OF WORKMANSHIP AND THE QUALITY OF THE MATERIALS OF CONSTRUCTION ARE GOVERNED BY THE SEATTLE BUILDING CODE, 2018 EDITION (SBC).
2. TO ASSURE THE QUALITY OF THE CONSTRUCTION OF THIS PROJECT, STRUCTURAL TESTS, SPECIAL INSPECTION AND STRUCTURAL OBSERVATION WILL BE PERFORMED IN ACCORDANCE WITH SBC, CHAPTER 17.
3. WHERE FREQUENCY OF INSPECTION IS SPECIFIED TO BE CONTINUOUS, THE SPECIAL INSPECTOR IS EXPECTED TO BE PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED AND PROVIDING FULL-TIME OBSERVATION OF THE WORK REQUIRING SPECIAL INSPECTION.
4. WHERE FREQUENCY OF INSPECTION IS SPECIFIED TO BE PERIODIC, THE SPECIAL INSPECTOR IS EXPECTED TO BE PRESENT IN THE AREA WHERE THE WORK HAS BEEN OR IS BEING PERFORMED AND AT THE COMPLETION OF THE WORK(PRIOR TO THE NEXT CONSTRUCTION TASK).
5. SPECIAL INSPECTIONS ARE IN ADDITION TO INSPECTIONS BY THE BUILDING OFFICIALS. CONSTRUCTION IS SUBJECT TO INSPECTION BY THE BUILDING OFFICIAL. COORDINATE WITH BUILDING DEPARTMENT TO DETERMINE REQUIRED INSPECTIONS.
6. CONTRACTOR SHALL PROVIDE ACCESS TO THE WORK FOR REQUIRED INSPECTIONS. CONTRACTOR SHALL PROVIDE NOTIFICATION IN ADVANCE OF REQUIRED INSPECTIONS, TESTING AND STRUCTURAL OBSERVATIONS.

BORDER FILE EDITION: xKCVTD-Isis-TB-Border: AQB\Layer
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PLOTTED: Jul 20, 2023 03:10:23pm By SLor

NO	REVISION DESCRIPTION	BY	APVD	DATE

Lower Duwamish Waterway Group
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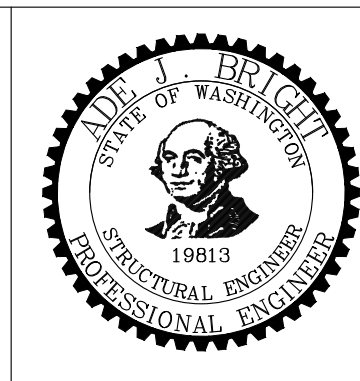


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STRUCTURAL & CIVIL ENGINEERING
1809 7TH AVENUE
SUITE 1100
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F: (206) 625-1851

**PRE-FINAL ISSUE DRAWING
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JULY 2023



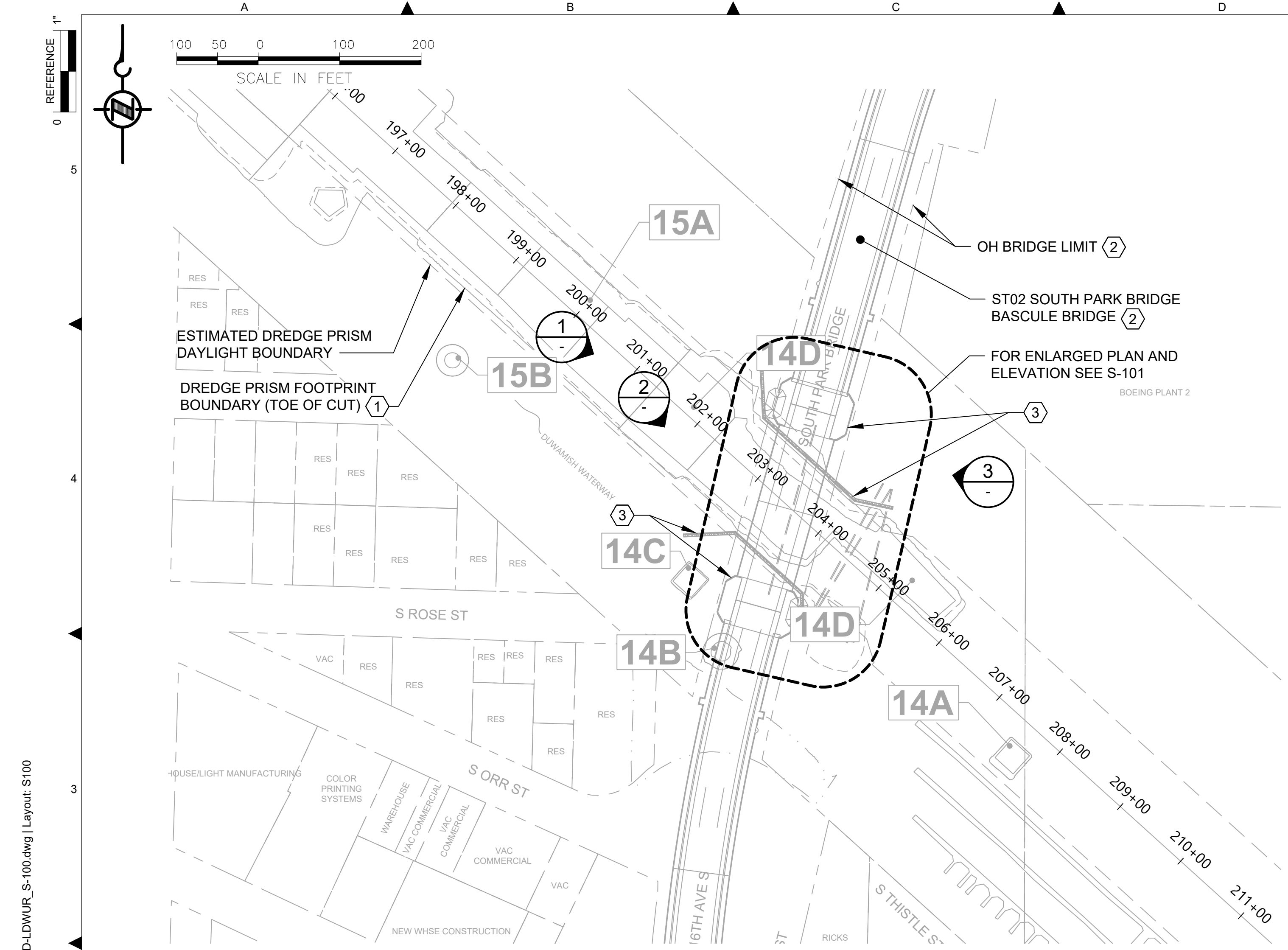
DESIGNED/DRAWN: S. LOR	CHECKED: I. IKEDA
PROJECT ENGINEER: A. BRIGHT	SCALE: AS NOTED
DESIGN APPROVAL:	PROJECT FILE NO: E00559E18
PROJECT ACCEPTANCE: PRJCT MNGR	CONTRACT NO: C0XXXXCXX



DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
LOWER DUWAMISH WATERWAY UPPER REACH
SEDIMENT CLEANUP

STATEMENT OF SPECIAL
INSPECTIONS AND TESTING

DATE: JULY 2023	DRAWING NO: S003
WP701-G-00001	
SHT NO / TOTAL	REV NO: 0
75 / 87	



PARTIAL SITE PLAN
SCALE: 1: 100

GENERAL NOTES:

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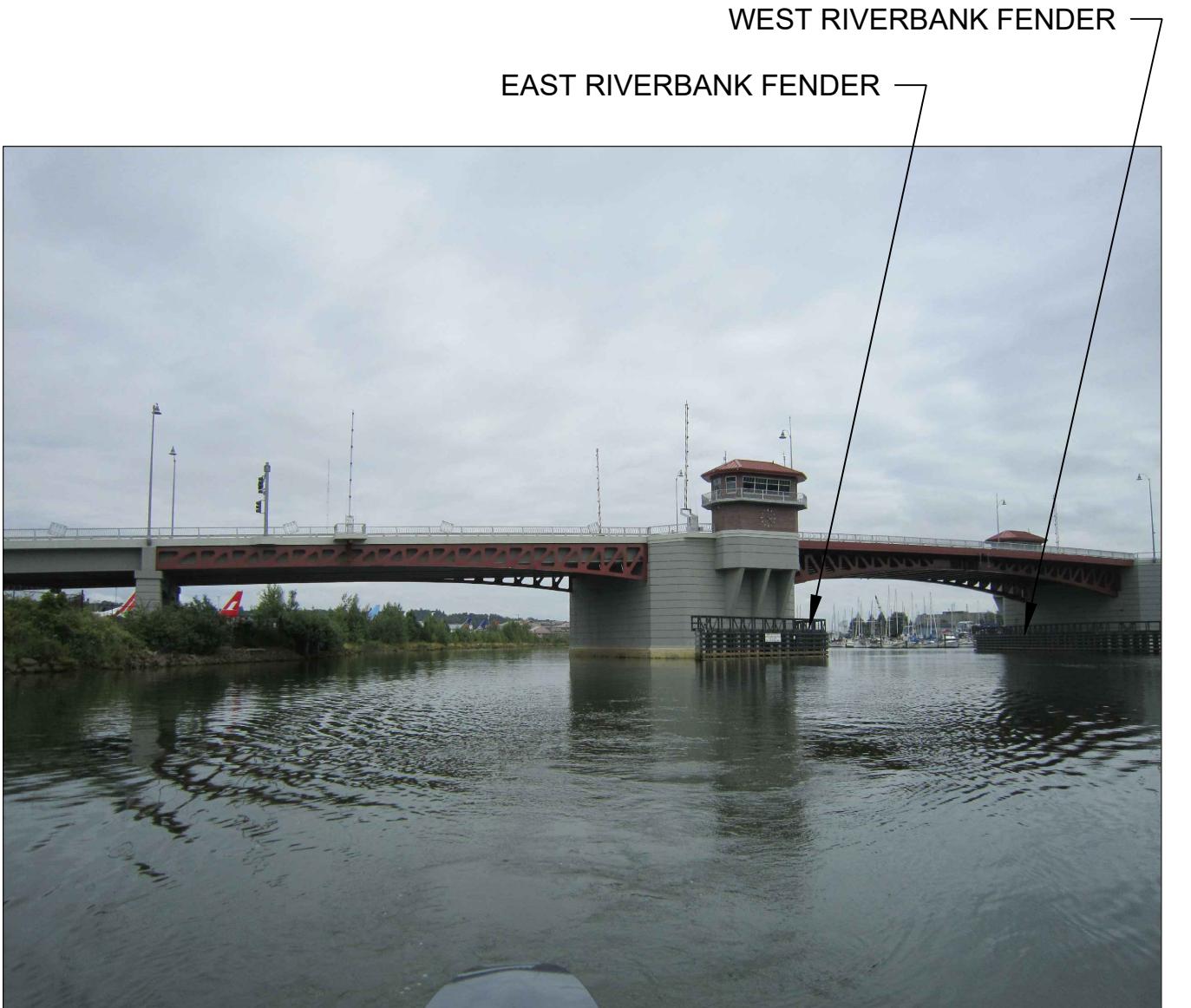
KEY NOTES:

- FOR DREDGING OFFSET AND LIMITS, CUT SLOPE AND RESTORATION, SEE CIVIL DRAWINGS.
- DO NOT MOOR OR OTHERWISE IMPOSE LATERAL LOADS TO KING COUNTY STRUCTURES.
- MAINTAIN THE MINIMUM OFFSETS FROM BRIDGE PIERS AND FENDERING PILE SYSTEM INDICATED ON THE PLANS. PROTECT-IN-PLACE BRIDGE FENDERING SYSTEM.



BASCULE BRIDGE (LOOKING UPSTREAM)

PHOTO
SCALE: NONE



FENDERS (LOOKING UPSTREAM)

PHOTO
SCALE: NONE



GOOGLE MAP VIEW
SCALE: NONE



FENDER (LOOKING DOWNSTREAM)

PHOTO
SCALE: NONE

COLOR IMAGE
THIS DRAWING IS COMPOSED USING COLOR IMAGES OR PHOTOGRAPHS AND MUST BE PLOTTED, PRINTED, AND REPRODUCED IN COLOR TO BE VIEWED ACCURATELY.

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SUITE 1100
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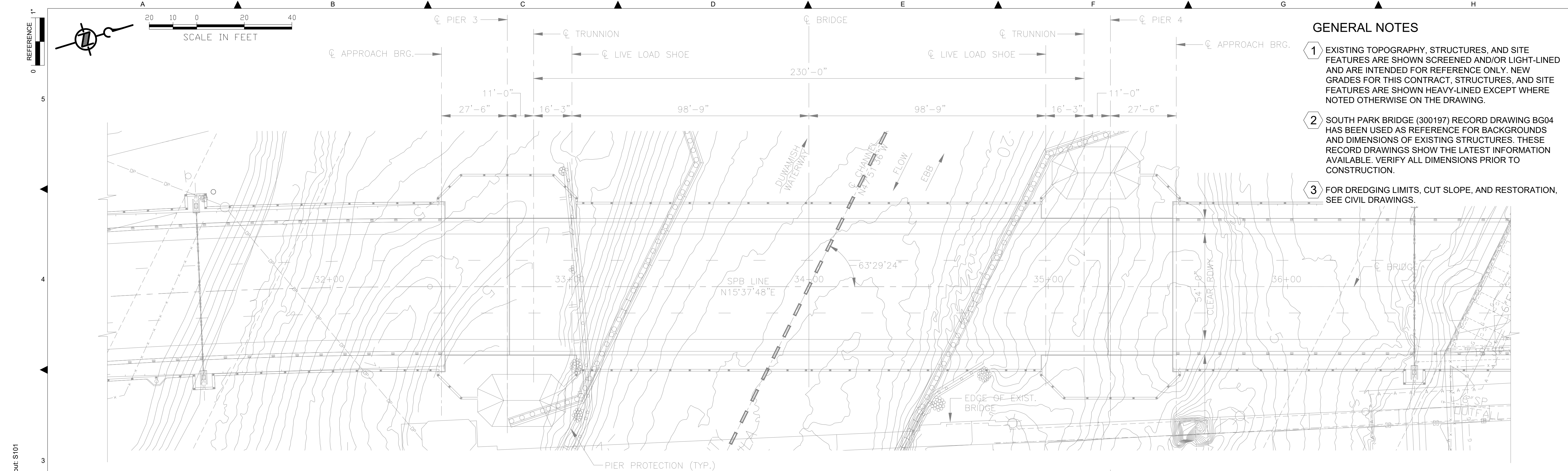
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PROJECT ENGINEER: A. BRIGHT	SCALE: AS NOTED
DESIGN APPROVAL:	PROJECT FILE NO: E00559E18
PROJECT ACCEPTANCE: PRJCT MNGR	CONTRACT NO: C0XXXXCX



DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
LOWER DUWAMISH WATERWAY UPPER REACH
SEDIMENT CLEANUP

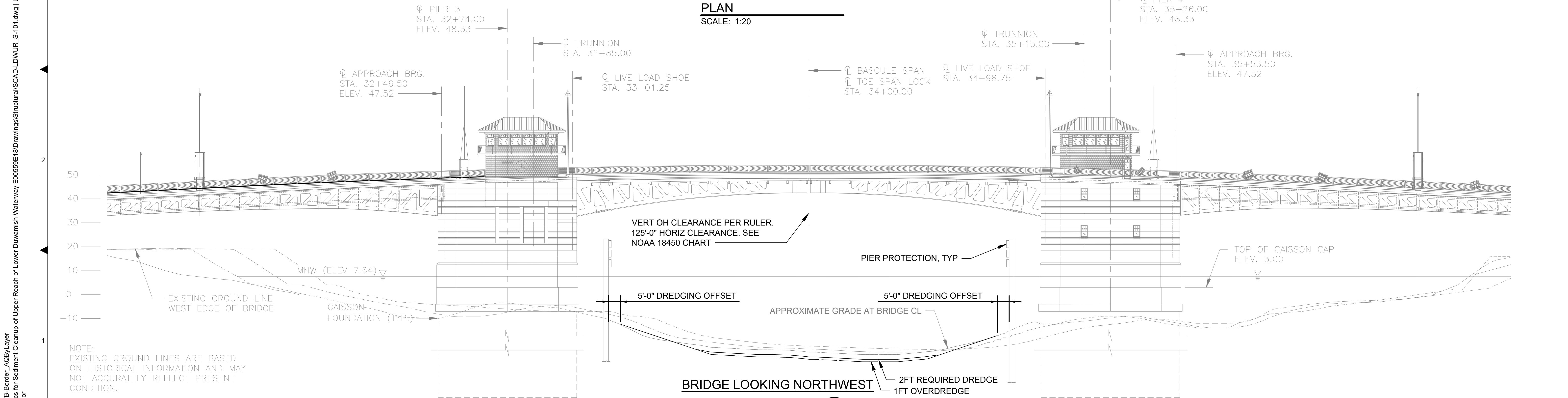
**SOUTH PARK BRIDGE
PLAN AND PHOTOS**

DATE: JULY 2023
DRAWING NO: S100
WP701-G-00001
SHT NO / TOTAL 76 / 87
REV NO: 0



- GENERAL NOTES**
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 - SOUTH PARK BRIDGE (300197) RECORD DRAWING BG04 HAS BEEN USED AS REFERENCE FOR BACKGROUNDS AND DIMENSIONS OF EXISTING STRUCTURES. THESE RECORD DRAWINGS SHOW THE LATEST INFORMATION AVAILABLE. VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.
 - FOR DREDGING LIMITS, CUT SLOPE, AND RESTORATION, SEE CIVIL DRAWINGS.

PLAN
SCALE: 1:20



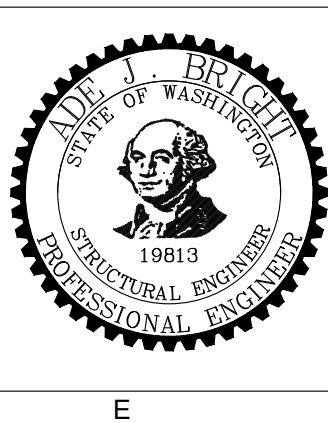
BRIDGE LOOKING NORTHWEST
ELEVATION
SCALE: 1:20

NO	REVISION DESCRIPTION	BY	APVD	DATE

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PROJECT ENGINEER: A. BRIGHT
DESIGN APPROVAL: [Signature]
PROJECT ACCEPTANCE: PRJCT MNGR

CHECKED: I. IKEDA
SCALE: AS NOTED
PROJECT FILE NO: E00559E18
CONTRACT NO: C0XXXXCXX

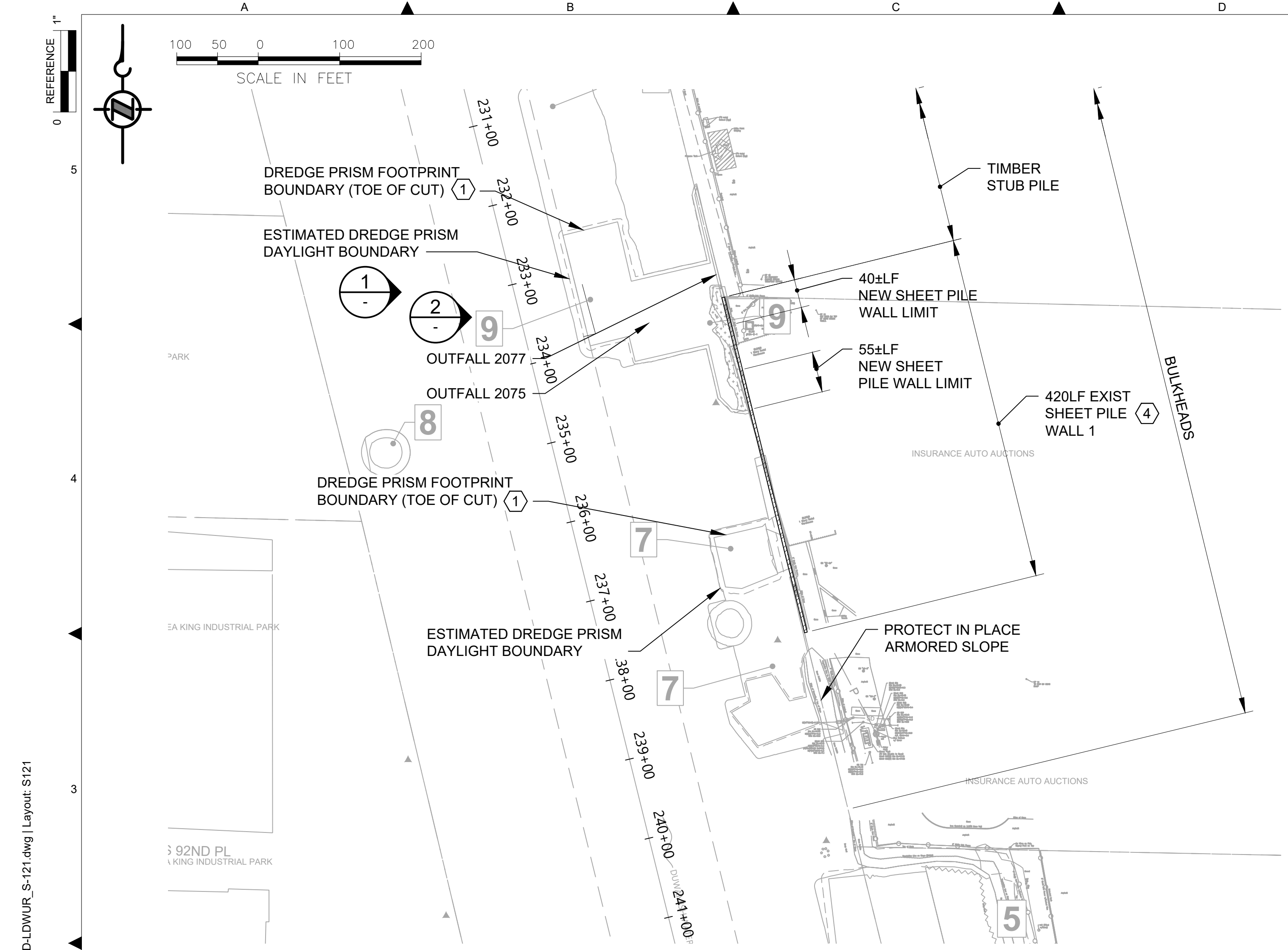


DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
LOWER DUWAMISH WATERWAY UPPER REACH
SEDIMENT CLEANUP

SOUTH PARK BRIDGE
PLAN AND PROFILE

DATE: JULY 2023
DRAWING NO: **S101**
WP701-G-00001
SHT NO / TOTAL REV NO: 77 / 87 0

BORDER FILE EDITION: xKCVTD-Size-TB-Border_AQBMLayer
T:\62 Series - Anchor QEA\252.01 Eng Svcs for Sediment Cleanup of Upper Reach of Lower Duwamish Waterway E00559E18\Drawings\Structural\SCAD-LDWUR_s-101.dwg | Layout: S101
PLOTTED: Jul 20, 2023 09:08:33pm By SLor



GENERAL NOTES:

- EXISTING TOPOGRAPHY, STRUCTURES, AND SITE FEATURES ARE SHOWN SCREENED AND/OR LIGHT-LINED AND ARE INTENDED FOR REFERENCE ONLY. NEW GRADES FOR THIS CONTRACT, STRUCTURES, AND SITE FEATURES ARE SHOWN HEAVY-LINED EXCEPT WHERE NOTED OTHERWISE ON THE DRAWING.

KEY NOTES:

- FOR DREDGING OFFSET AND LIMITS, CUT SLOPE, AND RESTORATION, SEE CIVIL DRAWINGS.
- DO NOT MOOR OR OTHERWISE IMPOSE LATERAL LOADS ON THE BULKHEADS.
- NO WALL DESIGN INFORMATION OR PILE EMBEDMENT DEPTH IS AVAILABLE THEREFORE MAINTAIN THE MINIMUM OFFSETS INDICATED ON THE PLANS.
- HANDLE AND DISPOSE CREOSOTE TIMBER PILES IN CONFORMANCE TO THE SPECIFICATIONS AND PERMITS.
- PROTECT OUTFALL AND DUCKBILL VALVE FROM DAMAGE AS REQUIRED. MAINTAIN 3'-0" CONSTRUCTION EQUIPMENT OFFSET FROM ACTIVE OUTFALLS - 2214, 2075, 2077, 2073, AND 2093.
- PRIOR TO DREDGING, NOTIFY PROJECT REPRESENTATIVE TO OBSERVE AND ASSESS THE CONDITION OF THE SHEET PILE AT MUDLINE FOR POSSIBLE REPAIRS.

REFERENCE DRAWINGS:

- S125 WALL 1: PLAN AND PROFILE
- S131 WALL 1: SECTIONS AND DETAILS
- S200 AND S201 OUTFALLS: PLANS AND PHOTOS
- S202 AND S203 OUTFALLS: ENERGY DISSIPATION - PLANS, ELEVATIONS, AND SECTIONS
- V201 TO V205 LOCATION OF IDENTIFIED DEBRIS AND PILING FOR REMOVAL



COLOR IMAGE
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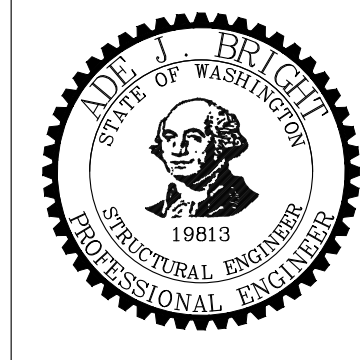
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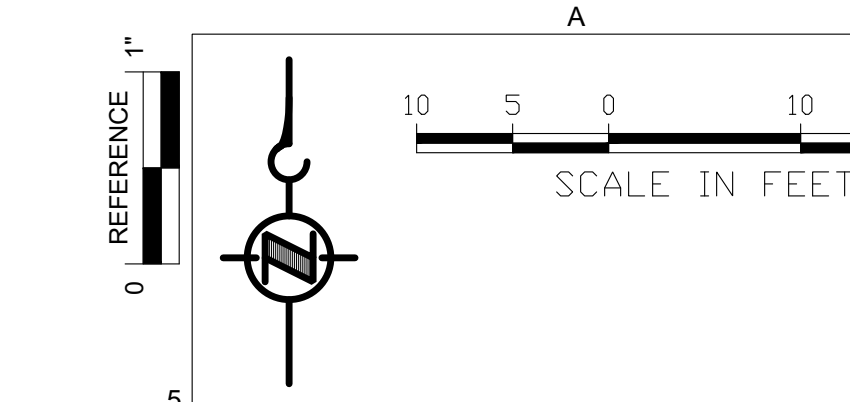
DESIGNED/DRAWN: S. LOR	CHECKED:
PROJECT ENGINEER: A. BRIGHT	SCALE: AS NOTED
DESIGN APPROVAL:	PROJECT FILE NO: E00559E18
PROJECT ACCEPTANCE: PRJCT MNGR	CONTRACT NO: C0XXXXCXX



DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
LOWER DUWAMISH WATERWAY UPPER REACH
SEDIMENT CLEANUP

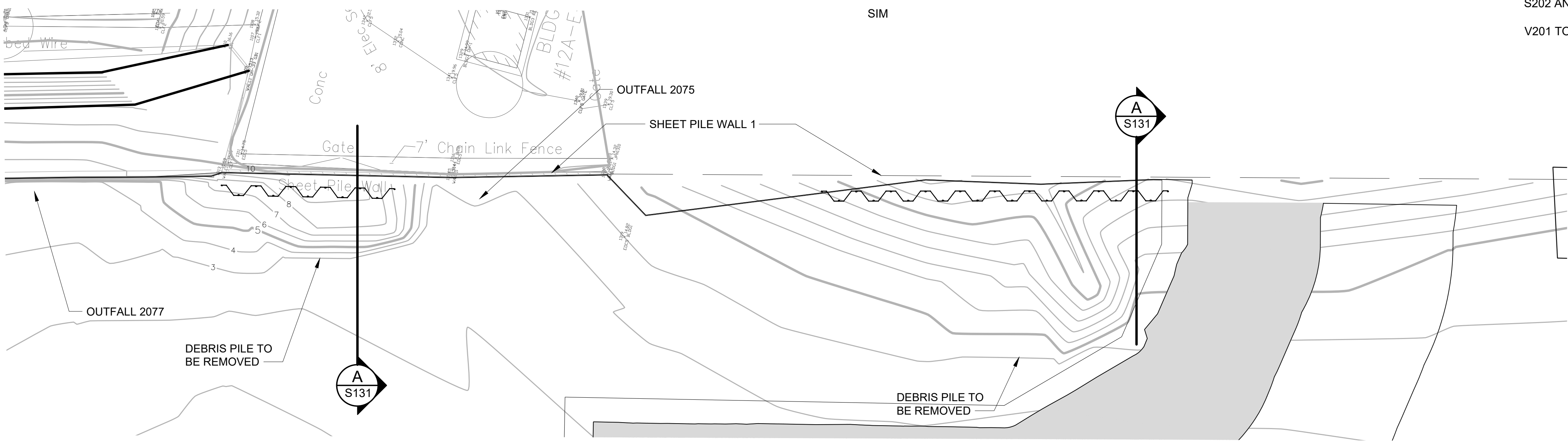
**BULKHEADS WALL 1
PLAN AND PHOTOS**

DATE: JULY 2023
DRAWING NO: S121
WP701-G-00001
SHT NO / TOTAL 78 / 87
REV NO: 0

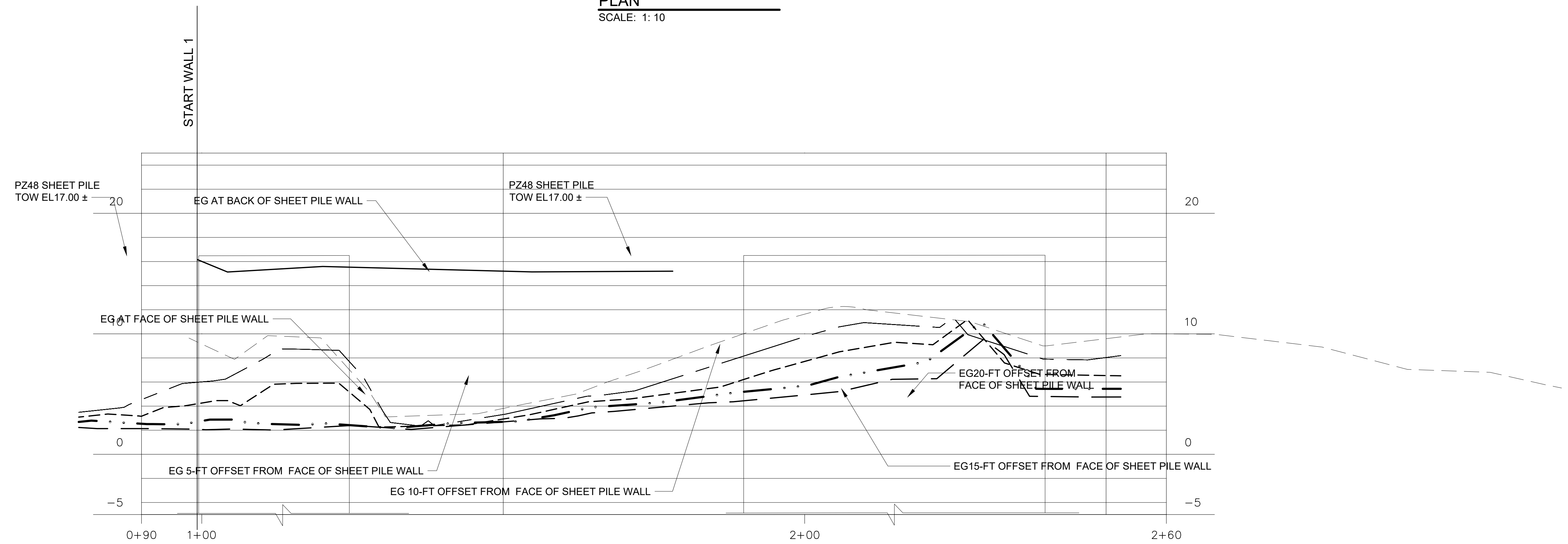


REFERENCE DRAWINGS:

- S200 AND S201 OUTFALLS: PLANS AND PHOTOS
- S202 AND S203 OUTFALLS: ENERGY DISSIPATION - PLANS, ELEVATIONS, AND SECTIONS
- V201 TO V205 LOCATION OF IDENTIFIED DEBRIS AND PILING FOR REMOVAL



PLAN
SCALE: 1: 10



PROFILE
SCALE: 1:5 VERT, 1:10 HOR

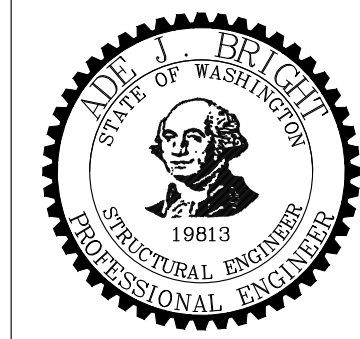
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SUITE 1100
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PROJECT ENGINEER: A. BRIGHT
DESIGN APPROVAL: [Signature]
PROJECT ACCEPTANCE: PRJCT MNGR

CHECKED: I. IKEDA
SCALE: [Blank]
PROJECT FILE NO: E00559E18
CONTRACT NO: C0XXXXCX

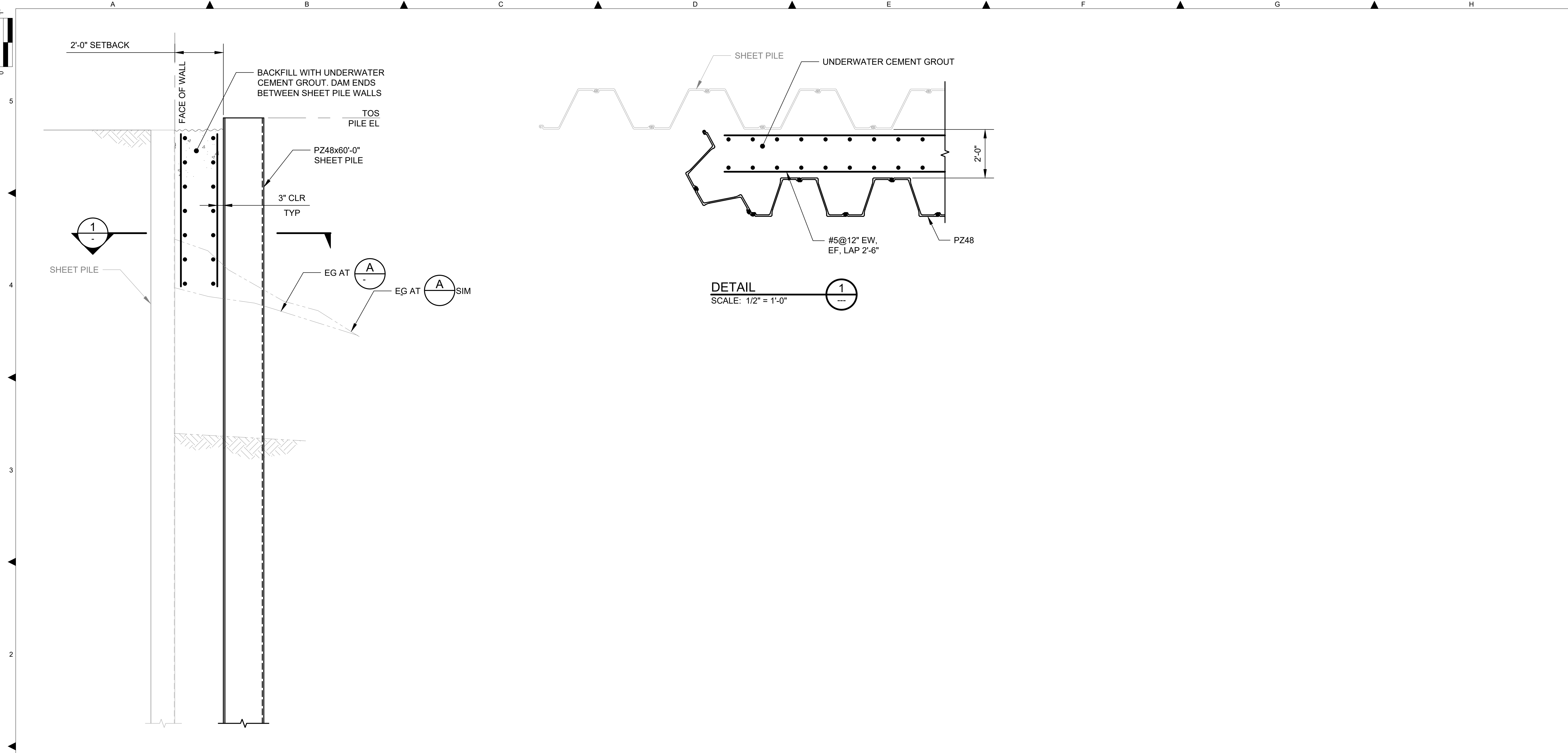


DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
LOWER DUWAMISH WATERWAY UPPER REACH
SEDIMENT CLEANUP

**BULKHEADS WALL 1
PLAN AND PROFILE**

DATE: JULY 2023
DRAWING NO: **S125**
WP701-G-00001
SHT NO / TOTAL REV NO: 79 / 87 0

BORDER FILE EDITION: x:\KOVTD\size-TB-Border_AQB\Layer T:\62 Series - Anchor QEA\252.01 Eng Svcs for Sediment Cleanup of Upper Reach of Lower Duwamish Waterway E00559E18\Drawings\Structural\SCAD-LDWUR_s-131.dwg | Layout: S131
 PLOTTED: Jul 20, 2023 02:18:41pm By SLor



WALL 1
SECTION
 SCALE: 1/2" = 1'-0"
 A
 S125

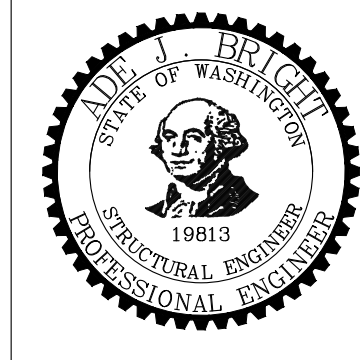
DETAIL
 SCALE: 1/2" = 1'-0"
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 SUITE 1100
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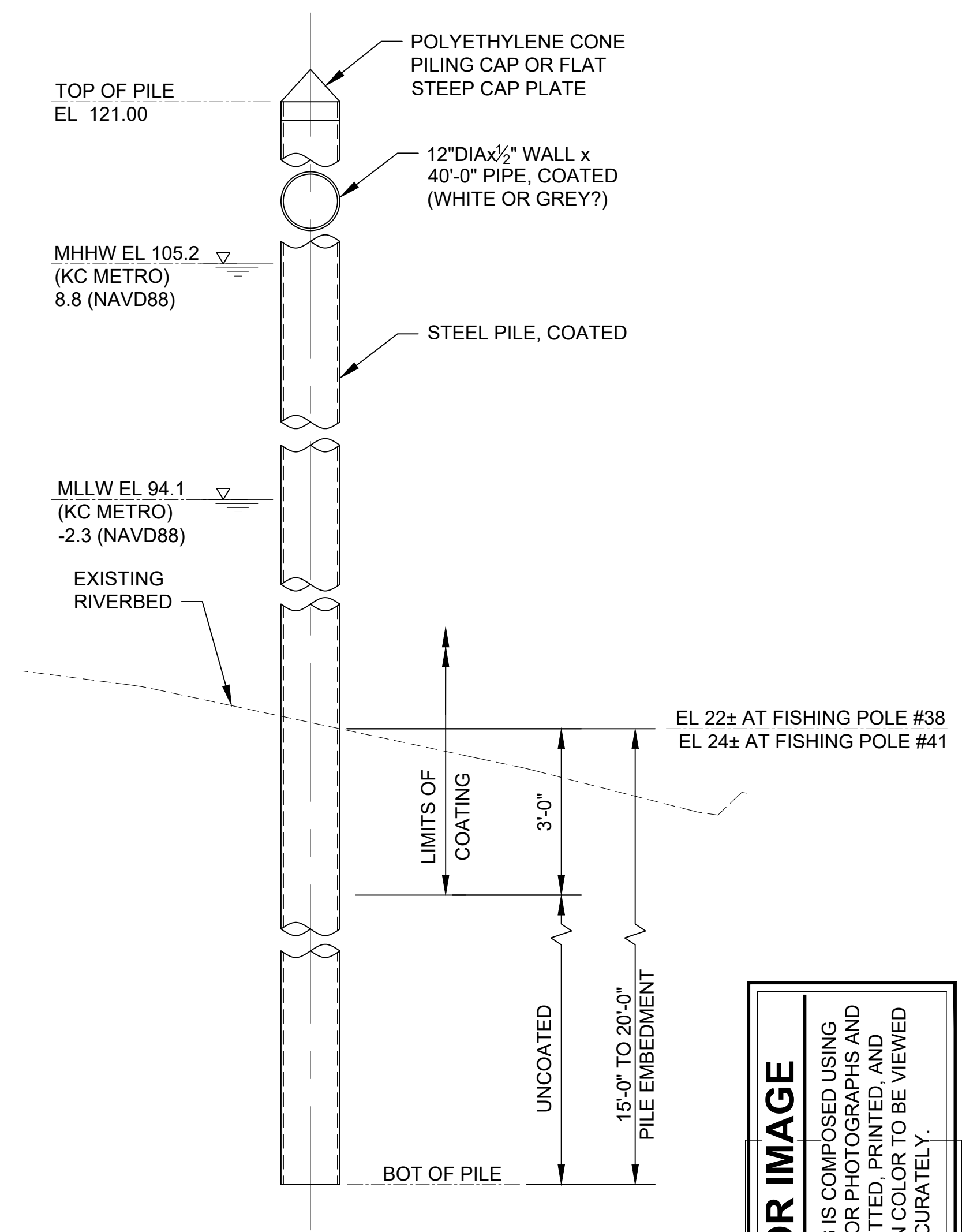
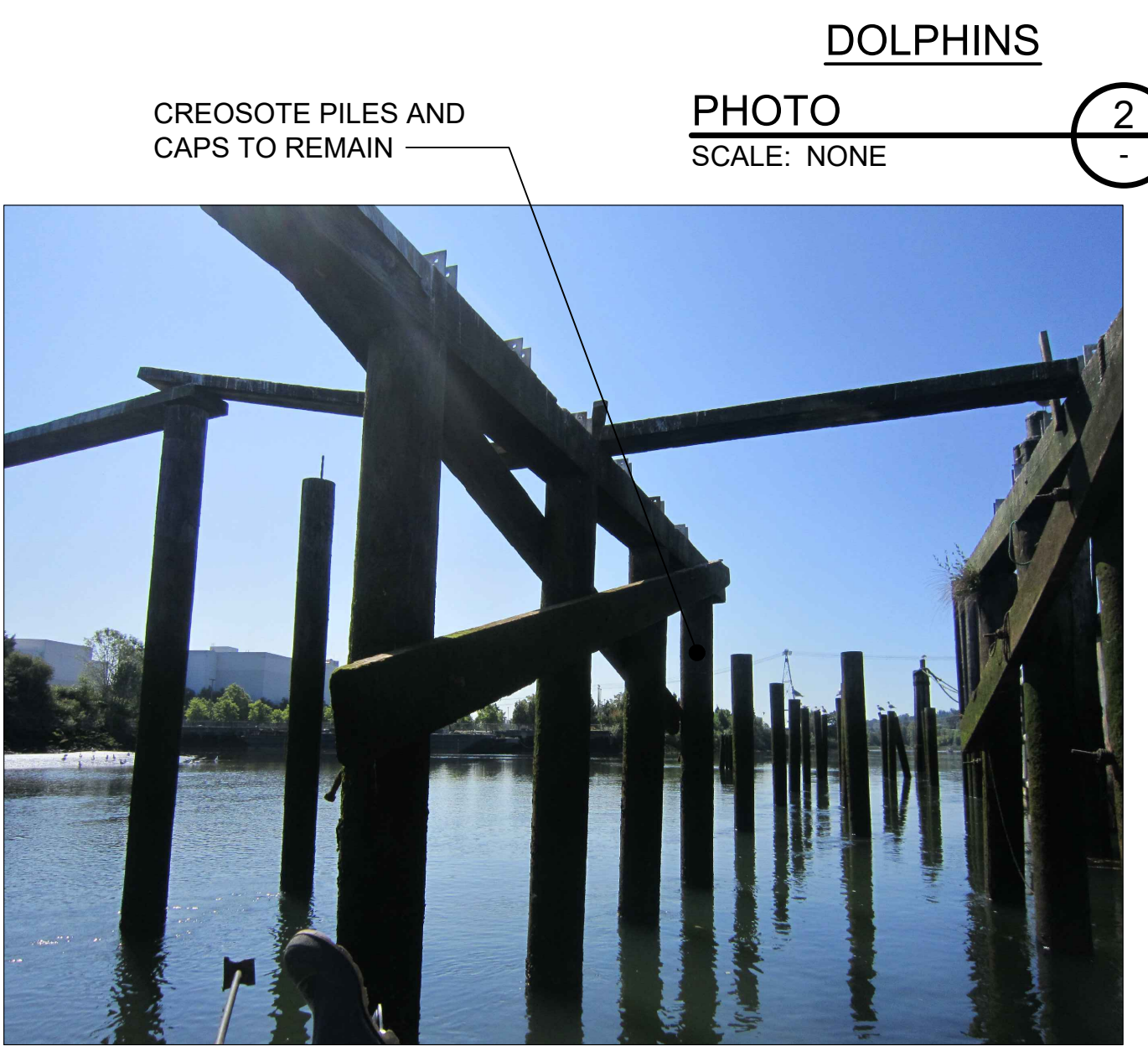
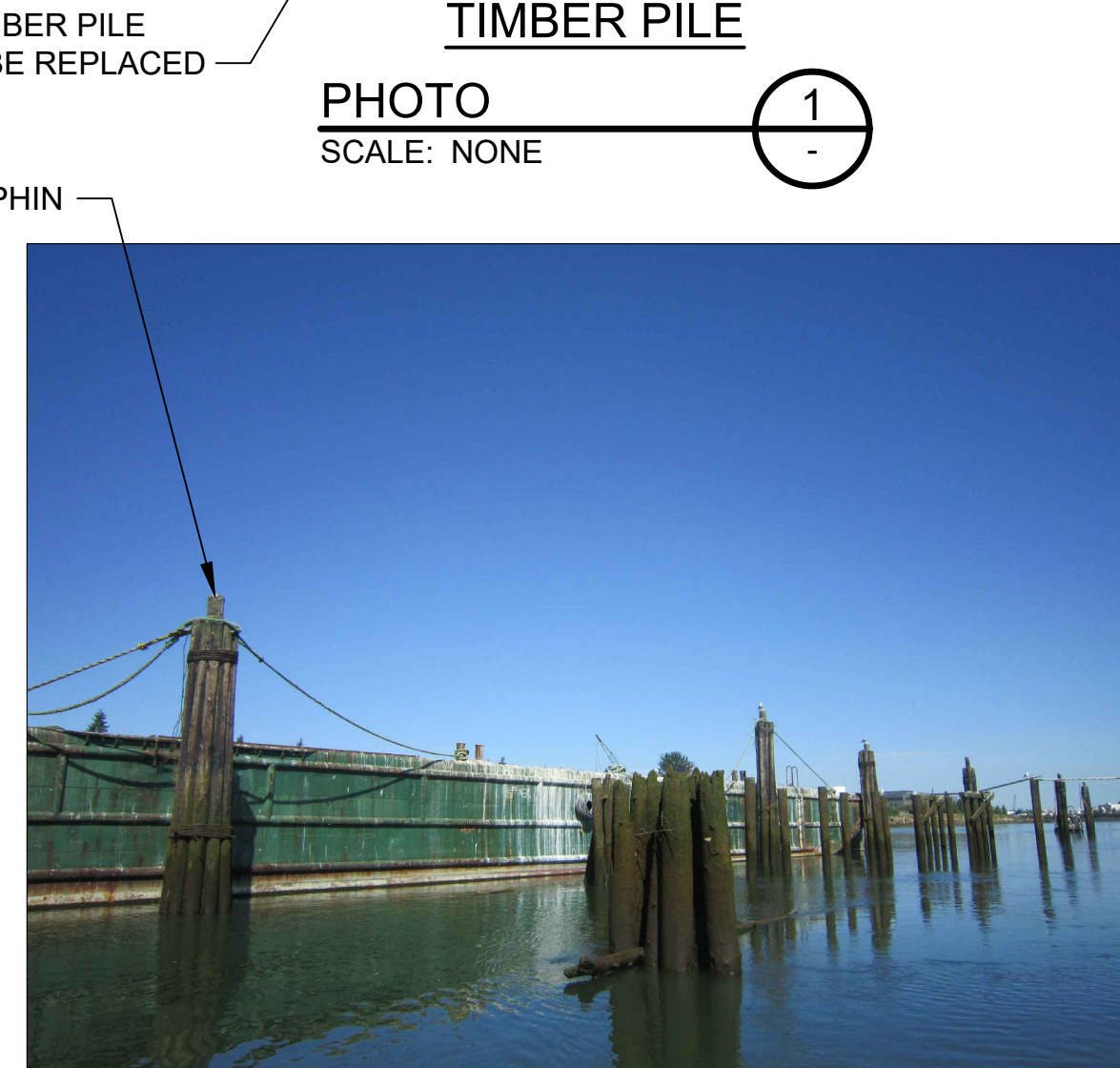
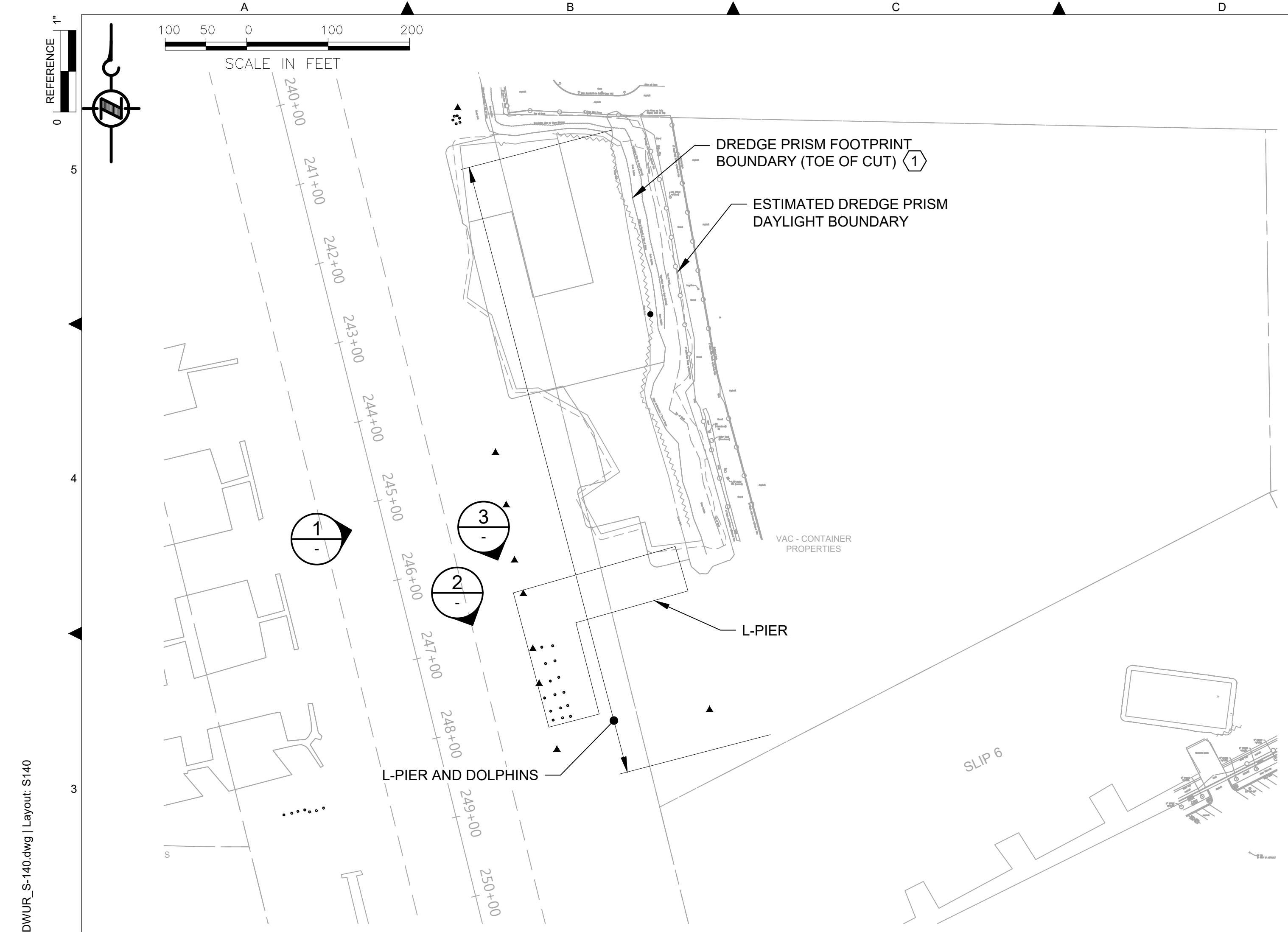


DESIGNED/DRAWN: S. LOR	CHECKED: I. IKEDA
PROJECT ENGINEER: A. BRIGHT	SCALE: AS NOTED
DESIGN APPROVAL:	PROJECT FILE NO: E00559E18
PROJECT ACCEPTANCE: PRJCT MNGR	CONTRACT NO: C0XXXXCX



DEPARTMENT OF NATURAL RESOURCES & PARKS
 WASTEWATER TREATMENT DIVISION
**LOWER DUWAMISH WATERWAY UPPER REACH
 SEDIMENT CLEANUP**
**BULKHEADS WALL 1
 SECTIONS AND DETAILS**

DATE: JULY 2023
DRAWING NO: S131
WP701-G-00001
SHT NO / TOTAL REV NO: 80 / 87 0



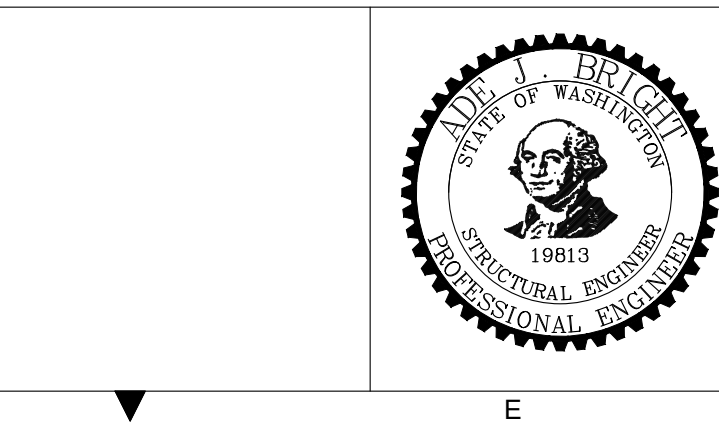
- GENERAL NOTES:**
- EXISTING TOPOGRAPHY, STRUCTURES, AND SITE FEATURES ARE SHOWN SCREENED AND/OR LIGHT-LINED AND ARE INTENDED FOR REFERENCE ONLY.. NEW GRADES FOR THIS CONTRACT, STRUCTURES, AND SITE FEATURES ARE SHOWN HEAVY-LINED EXCEPT WHERE NOTED OTHERWISE ON THE DRAWING.
- KEY NOTES:**
- FOR DREDGING OFFSET AND LIMITS, CUT SLOPE AND RESTORATION, SEE CIVIL DRAWINGS.
 - REMOVE AND REPLACE (1) TIMBER PILE WITH COATED STEEL PIPE PILE.
 - HANDLE AND DISPOSE CREOSOTE TIMBER PILES IN CONFORMANCE TO THE SPECIFICATIONS AND PERMITS.
- REFERENCE DRAWINGS:**
- V201 TO V205 LOCATION OF IDENTIFIED DEBRIS AND PILING FOR REMOVAL

NO	REVISION DESCRIPTION	BY	APVD	DATE

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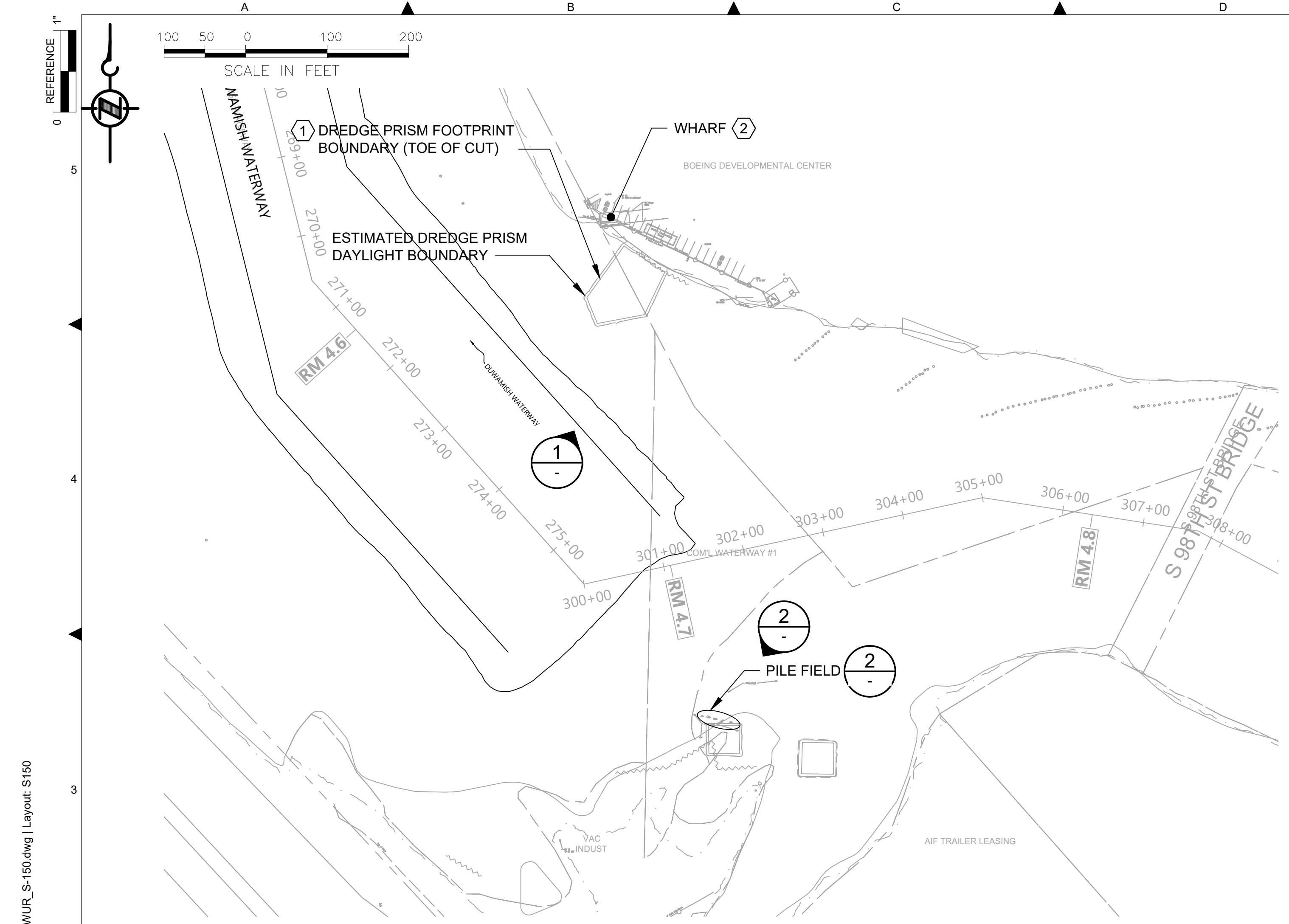
DESIGNED/DRAWN: S. LOR	CHECKED:
PROJECT ENGINEER: A. BRIGHT	SCALE: AS NOTED
DESIGN APPROVAL:	PROJECT FILE NO: E00559E18
PROJECT ACCEPTANCE: PRJCT MNGR	CONTRACT NO: C0XXXXCXX



DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
LOWER DUWAMISH WATERWAY UPPER REACH
SEDIMENT CLEANUP
L-SHAPE PIER & DOLPHINS
PLAN, PHOTOS,
AND PILE DETAILS

DATE: JULY 2023
DRAWING NO: S140
WP701-G-00001
SHT NO / TOTAL 81 / 87
REV NO: 0

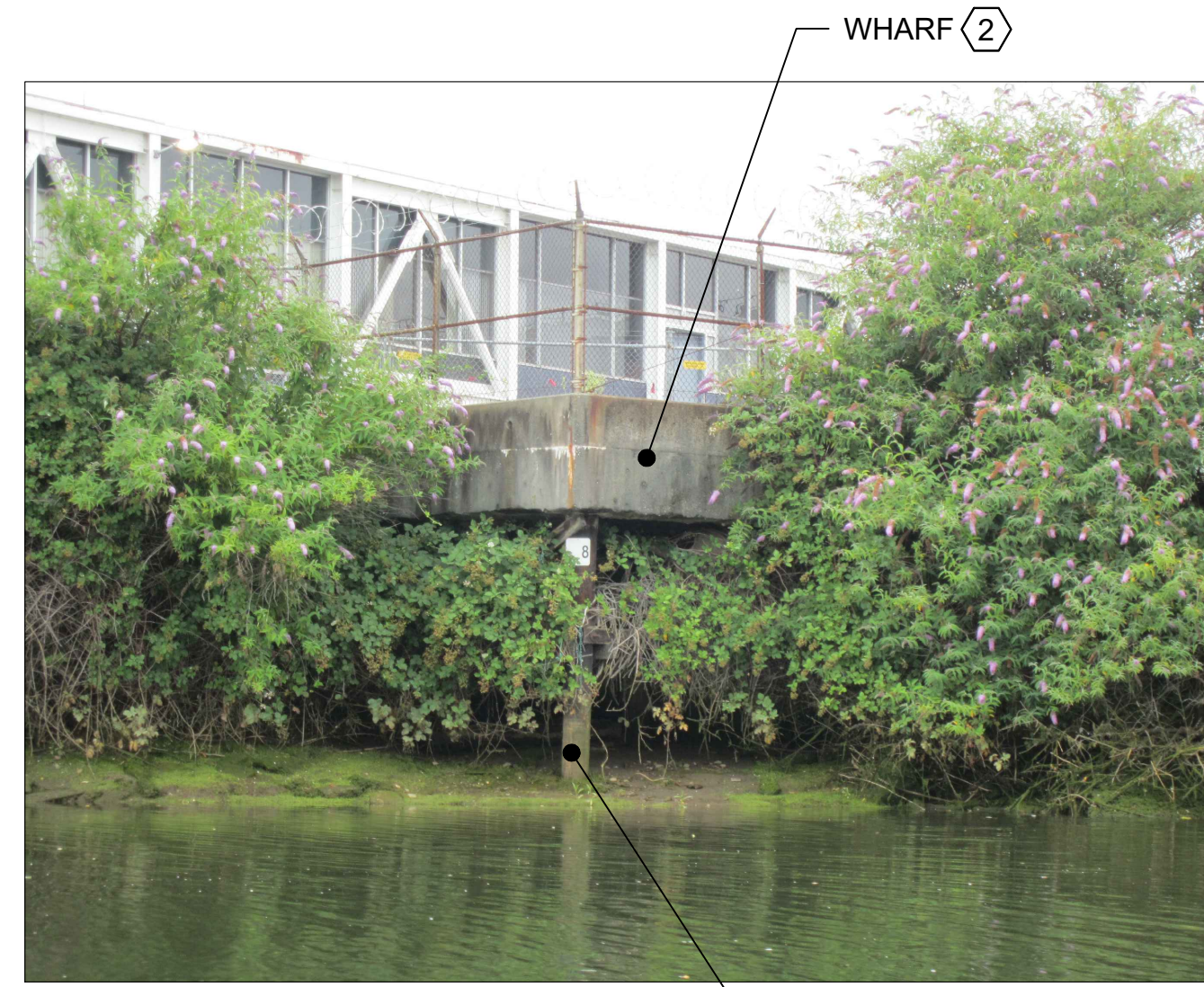
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PARTIAL SITE PLAN
SCALE: 1 : 100



AERIAL VIEW
SCALE: NONE



WHARF PHOTO
SCALE: NONE



PILE FIELD PHOTO
SCALE: NONE

GENERAL NOTES:

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KEY NOTES:

- FOR DREDGING OFFSET AND LIMITS, CUT SLOPE AND RESTORATION, SEE CIVIL DRAWINGS.
- PROTECT AND DO NOT MOOR ON OR OTHERWISE IMPOSE LATERAL LOADS ON THE WHARF STRUCTURE.
- NO PILE DESIGN INFORMATION OR PILE EMBEDMENT DEPTH IS AVAILABLE THEREFORE MAINTAIN THE MINIMUM OFFSETS INDICATED ON THE PLANS.
- ESTIMATED BRIDGE VERTICAL CLEARANCE NEAR MID SPAN: APPROXIMATELY 12'-0" ABOVE TIDE AT 1:55PM, JULY 17, 2020.

REFERENCE DRAWINGS:

- V201 to V205 LOCATION OF IDENTIFIED DEBRIS AND PILING FOR REMOVAL

COLOR IMAGE
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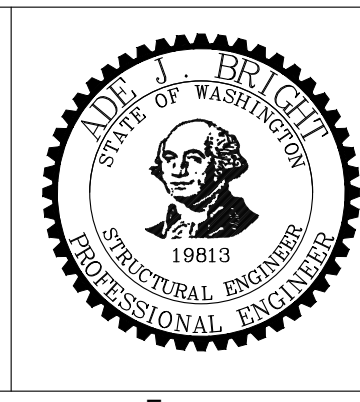
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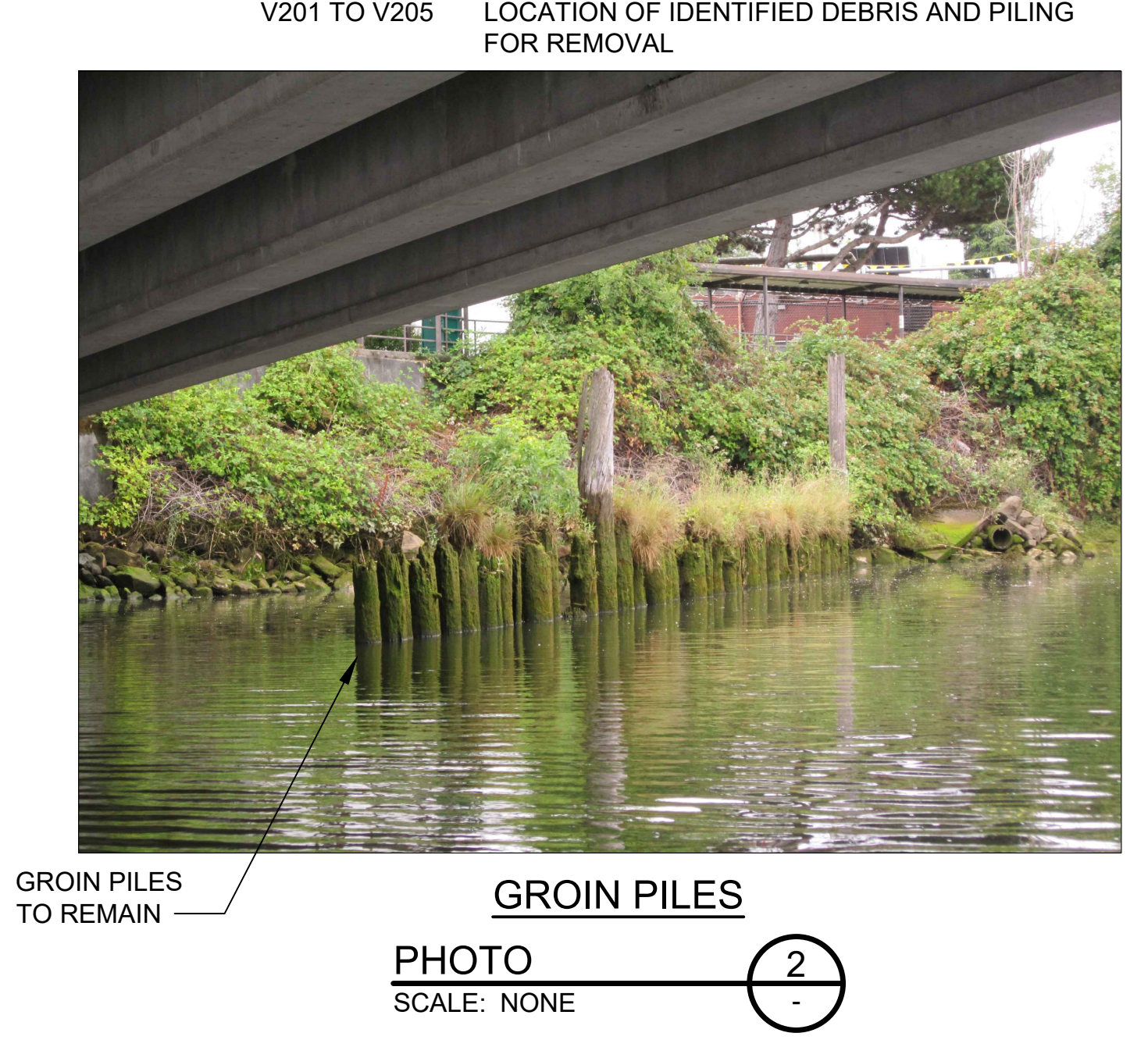
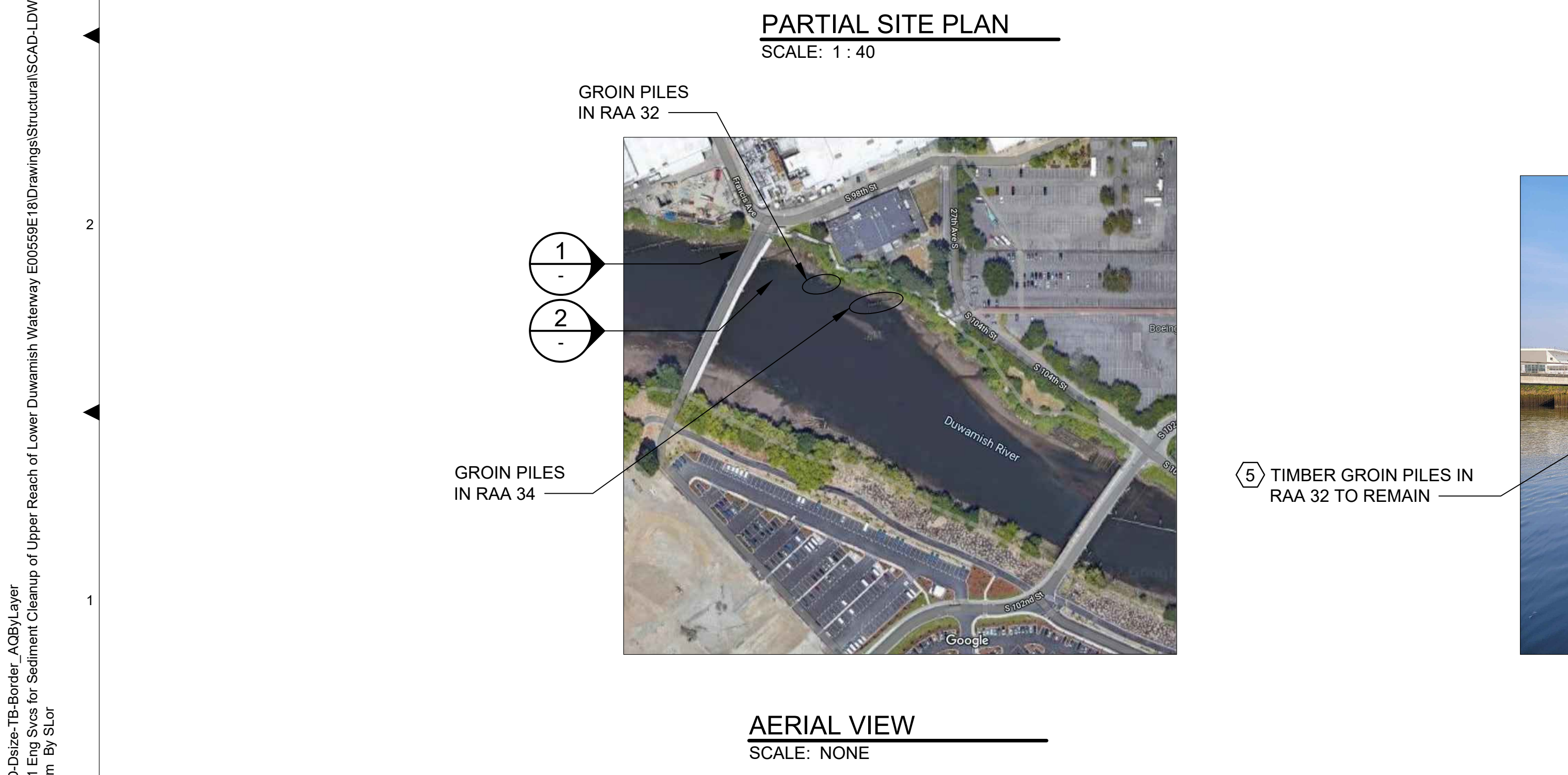
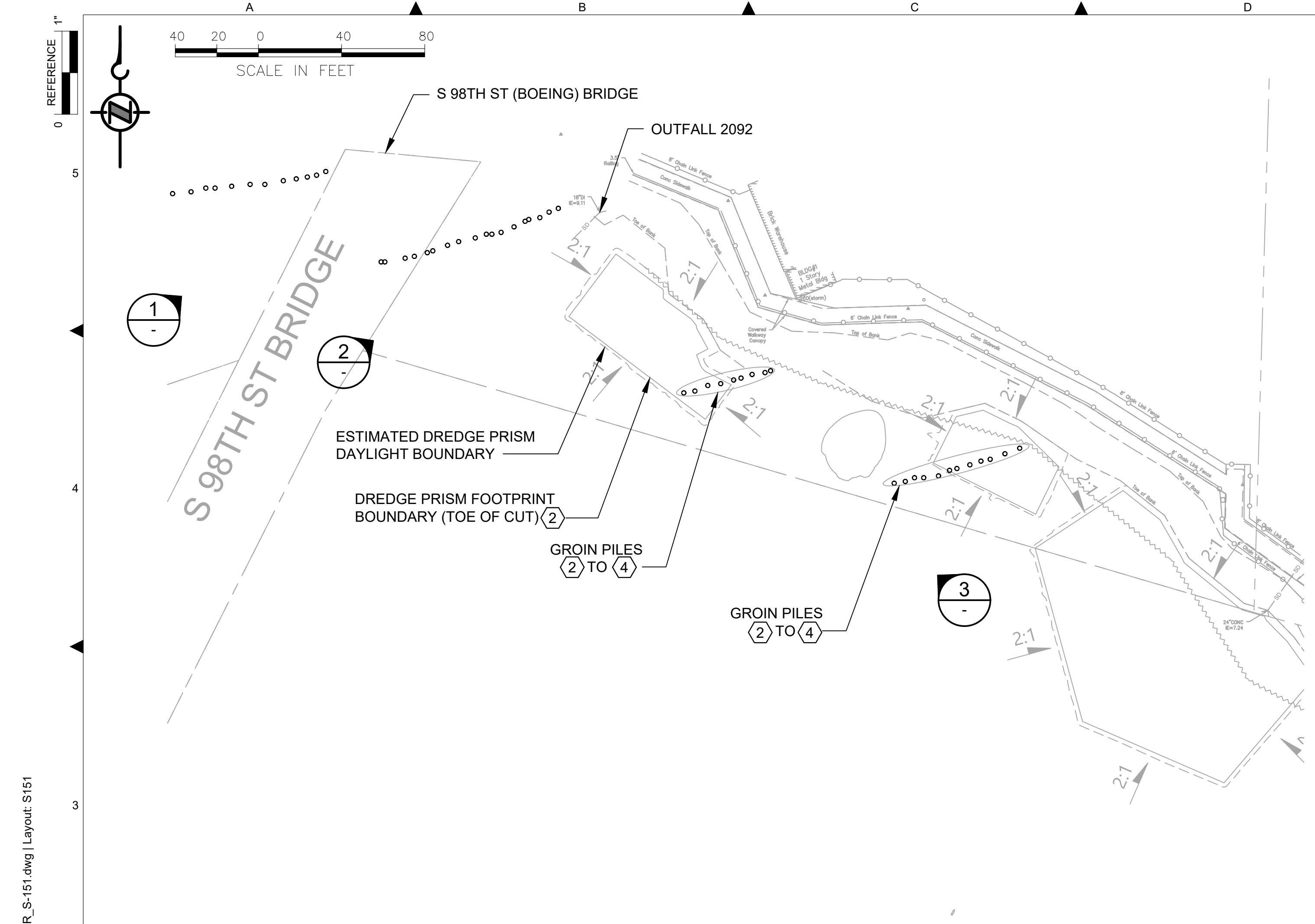
DESIGNED/DRAWN: S. LOR	CHECKED:
PROJECT ENGINEER: A. BRIGHT	SCALE: AS NOTED
DESIGN APPROVAL:	PROJECT FILE NO: E00559E18
PROJECT ACCEPTANCE: PRJCT MNGR	CONTRACT NO: C0XXXXCX



DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
LOWER DUWAMISH WATERWAY UPPER REACH
SEDIMENT CLEANUP

WHARF & PILE FIELD PLAN AND PHOTOS

DATE: JULY 2023
DRAWING NO: S150
WP701-G-00001
SHT NO / TOTAL 82 / 87
REV NO: 0



GENERAL NOTES:

- EXISTING TOPOGRAPHY, STRUCTURES, AND SITE FEATURES ARE SHOWN SCREENED AND/OR LIGHT-LINED AND ARE INTENDED FOR REFERENCE ONLY. NEW GRADES FOR THIS CONTRACT, STRUCTURES, AND SITE FEATURES ARE SHOWN HEAVY-LINED EXCEPT WHERE NOTED OTHERWISE ON THE DRAWING.

KEY NOTES:

- FOR DREDGING OFFSET AND LIMITS, CUT SLOPE AND RESTORATION, SEE CIVIL DRAWINGS.
- DO NOT MOOR OR OTHERWISE IMPOSE LATERAL LOADS ON THE PILE STRUCTURES.
- NO PILE DESIGN INFORMATION OR PILE EMBEDMENT DEPTH IS AVAILABLE THEREFORE A MAXIMUM OF 1FT DIFFERENTIAL DREDGING DEPTH SHALL MAINTAIN BETWEEN BOTH (NORTH AND SOUTH) SIDES OF THE GROIN PILE ROW.
- CONTRACTOR IS RESPONSIBLE FOR PROTECTING AND PREVENTING ANY DAMAGE TO EXISTING PILE STRUCTURES.

REFERENCE DRAWINGS:

V201 TO V205 LOCATION OF IDENTIFIED DEBRIS AND PILING FOR REMOVAL

COLOR IMAGE
THIS DRAWING IS COMPOSED USING COLOR IMAGES OR PHOTOGRAPHS AND MUST BE PLOTTED, PRINTED, AND REPRODUCED IN COLOR TO BE VIEWED ACCURATELY.

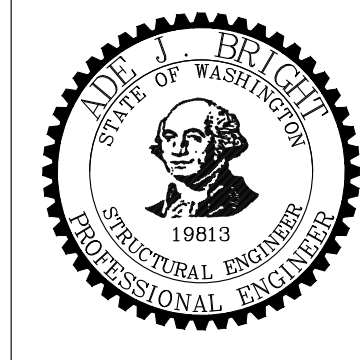
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PLOTTED: Jul 20, 2023 02:40:11pm By SLor

NO	REVISION DESCRIPTION	BY	APVD	DATE

Lower Duwamish Waterway Group
Port of Seattle / City of Seattle / King County / The Boeing Company

BRIGHT ENGINEERING, INC.
STRUCTURAL & CIVIL ENGINEERING
1809 7TH AVENUE SUITE 1100
SEATTLE, WA 98101
P: (206) 625-3777
F: (206) 625-1851

PRE-FINAL ISSUE DRAWING
INFORMATION ONLY
90% DRAFT
JULY 2023



DESIGNED/DRAWN: S. LOR
PROJECT ENGINEER: A. BRIGHT
DESIGN APPROVAL: E00559E18
PROJECT ACCEPTANCE: PRJCT MNGR

CHECKED: I. IKEDA
SCALE: AS NOTED
PROJECT FILE NO: E00559E18
CONTRACT NO: C0XXXXCX

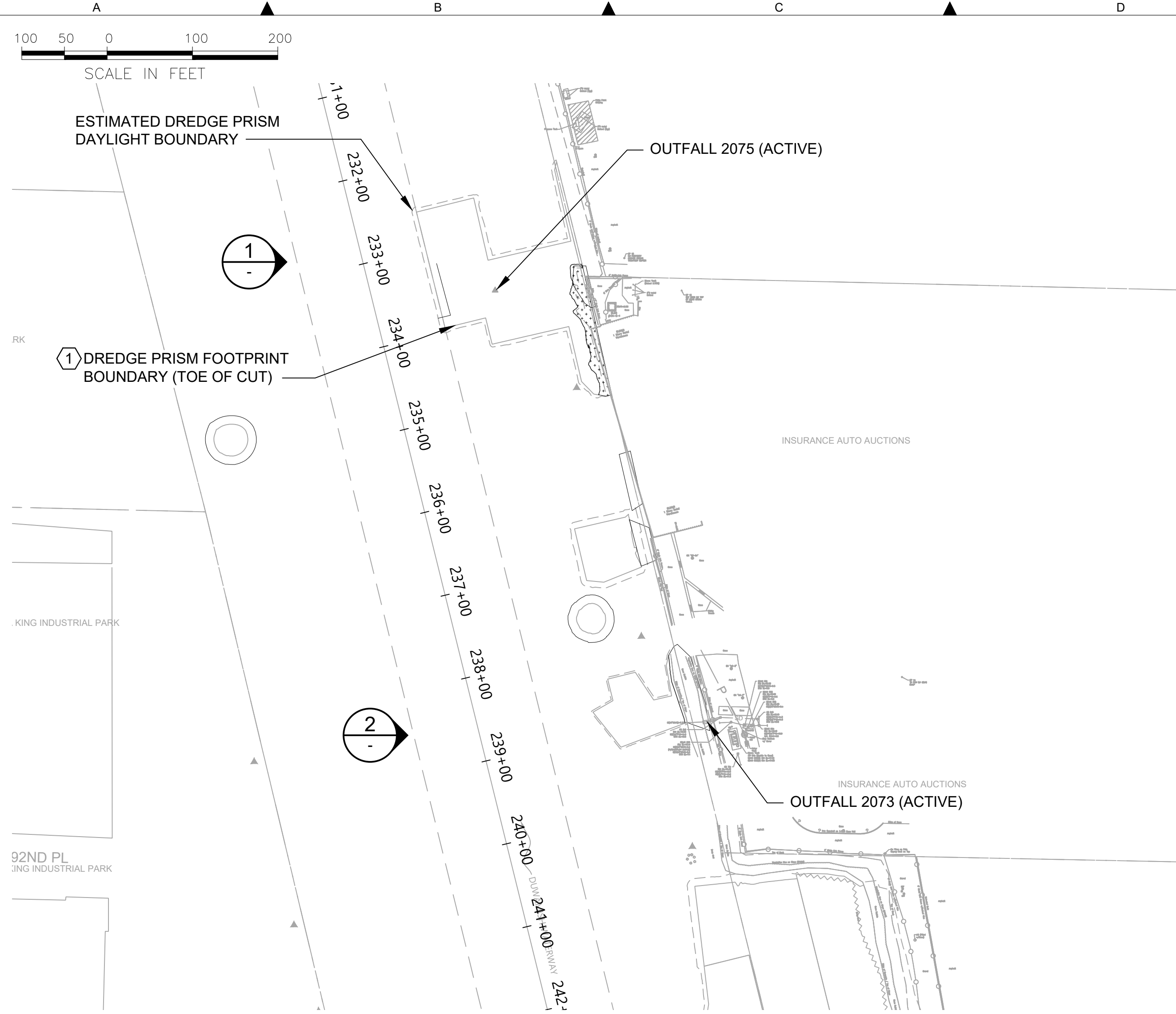


DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
LOWER DUWAMISH WATERWAY UPPER REACH
SEDIMENT CLEANUP

GROIN PILES PLAN AND PHOTOS

DATE: JULY 2023
DRAWING NO: **S151**
WP701-G-00001
SHT NO / TOTAL: 83 / 87
REV NO: 0

BORDER FILE EDITION: x:\KOVTD\size-TB-Border_ACB\Layer
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 PLOTTED: Jul 20, 2023 02:45:06pm By SLor



PARTIAL SITE PLAN
SCALE: 1 : 100



AERIAL VIEW
SCALE: NONE



OUTFALL 2075
SCALE: NONE

4 OUTFALL 2075 32" DIA STEEL RISER

5 REMOVE SLAG DEBRIS PILE SHEET PILE BULKHEAD BEHIND 2, 3



OUTFALL 2073
SCALE: NONE

5 OUTFALL 2073 18" DIA CONCRETE PIPE. IF OUTFALL IS WITHIN DREDGE PRISM, REMOVE EXISTING RIPRAP AS REQUIRED

3-SIDED CONCRETE BOX AND CONC APRON, AND BANK PROTECTION. CONC APRON TO BE REMOVED AND REPLACED WITH ENERGY DISSIPATION STRUCTURE 5

GENERAL NOTES:

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- MAINTAIN 3'-0" CONSTRUCTION EQUIPMENT OFFSET FROM ACTIVE OUTFALLS - 2214, 2075, 2077, 2073 AND 2093.
- WORK AROUND OR DEMOLISH INACTIVE OUTFALLS - 2076, 2074, 2092, 2097, DC16, 2096 AND 2094 WHERE ENCOUNTERED.

KEY NOTES:

- FOR CUT DREDGING OFFSET AND SLOPE AND RESTORATION, SEE CIVIL DRAWINGS.
- NO WALL DESIGN INFORMATION OR PILE EMBEDMENT DEPTH IS AVAILABLE, THEREFORE MAINTAIN THE MINIMUM OFFSETS INDICATED ON THE PLANS.
- DO NOT MOOR OR OTHERWISE IMPOSE LATERAL LOADS THE BULKHEADS.
- PROTECT STORMWATER RISER PIPE IN PLACE.
- PROTECT OUTFALL PIPE IN PLACE.
- CONSTRUCT ENERGY DISSIPATION STRUCTURE CONSISTING OF GABION MATTRESS FOUNDATION AND RIPRAP.

REFERENCE DRAWINGS:

- S202 AND S203 OUTFALLS: ENERGY DISSIPATION - PLANS, ELEVATIONS, AND SECTIONS
 V201 TO V205 LOCATION OF IDENTIFIED DEBRIS AND PILING FOR REMOVAL

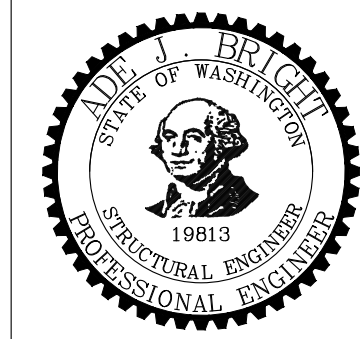
COLOR IMAGE
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NO	REVISION DESCRIPTION	BY	APVD	DATE

Lower Duwamish Waterway Group
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6 BRIGHT ENGINEERING, INC.
 STRUCTURAL & CIVIL ENGINEERING
 1809 7TH AVENUE SUITE 1100
 SEATTLE, WA 98101
 P: (206) 625-3777
 F: (206) 625-1851

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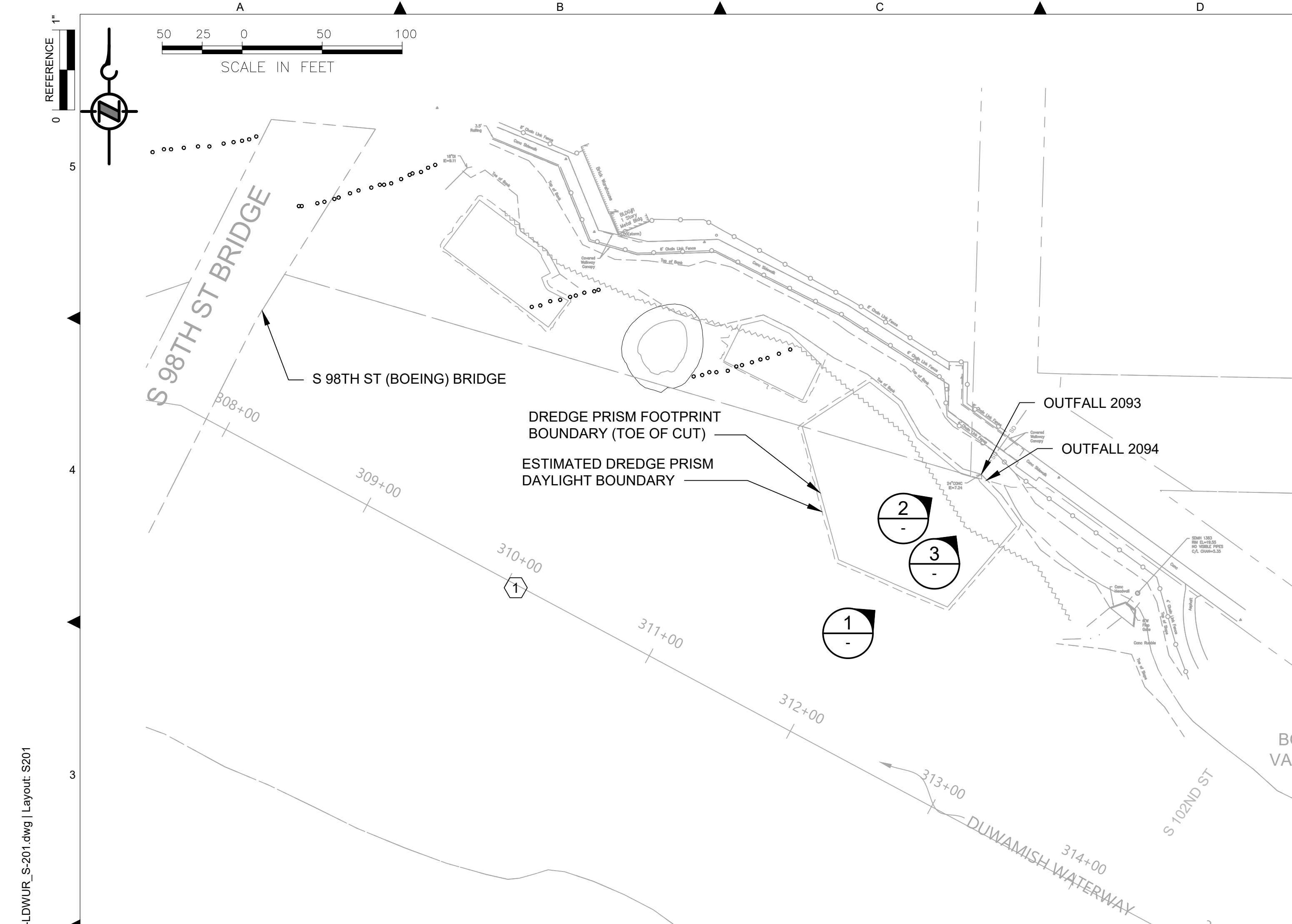
DESIGNED/DRAWN: S. LOR	CHECKED:
PROJECT ENGINEER: A. BRIGHT	SCALE: AS NOTED
DESIGN APPROVAL:	PROJECT FILE NO: E00559E18
PROJECT ACCEPTANCE: PRJCT MNGR	CONTRACT NO: C0XXXXCXX



DEPARTMENT OF NATURAL RESOURCES & PARKS
 WASTEWATER TREATMENT DIVISION
 LOWER DUWAMISH WATERWAY UPPER REACH
 SEDIMENT CLEANUP

OUTFALLS 2075 & 2073
PLAN AND PHOTOS

DATE: JULY 2023
DRAWING NO: S200
WP701-G-00001
SHT NO / TOTAL 84 / 87
REV NO: 0



PARTIAL SITE PLAN
SCALE: 1 : 50



GOOGLE MAP VIEW
SCALE: NONE

GENERAL NOTES:

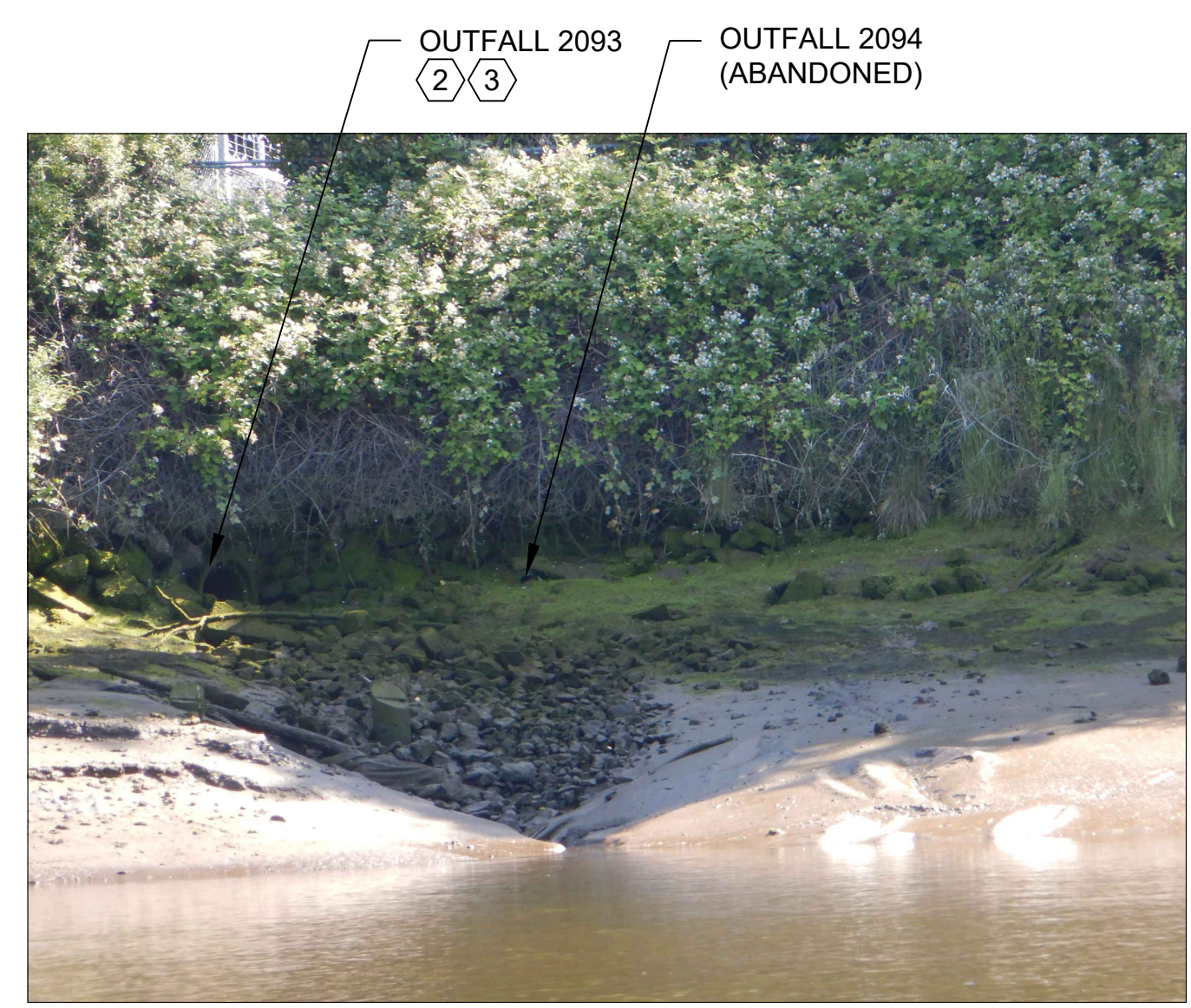
- EXISTING TOPOGRAPHY, STRUCTURES, AND SITE FEATURES ARE SHOWN SCREENED AND/OR LIGHT-LINED AND ARE INTENDED FOR REFERENCE ONLY. NEW GRADES FOR THIS CONTRACT, STRUCTURES, AND SITE FEATURES ARE SHOWN HEAVY-LINED EXCEPT WHERE NOTED OTHERWISE ON THE DRAWING.
- WORK AROUND OR DEMOLISH INACTIVE OUTFALLS - 2076, 2074, 2092, 2097, DC16, 2096 AND 2094 WHERE ENCOUNTERED.

KEY NOTES:

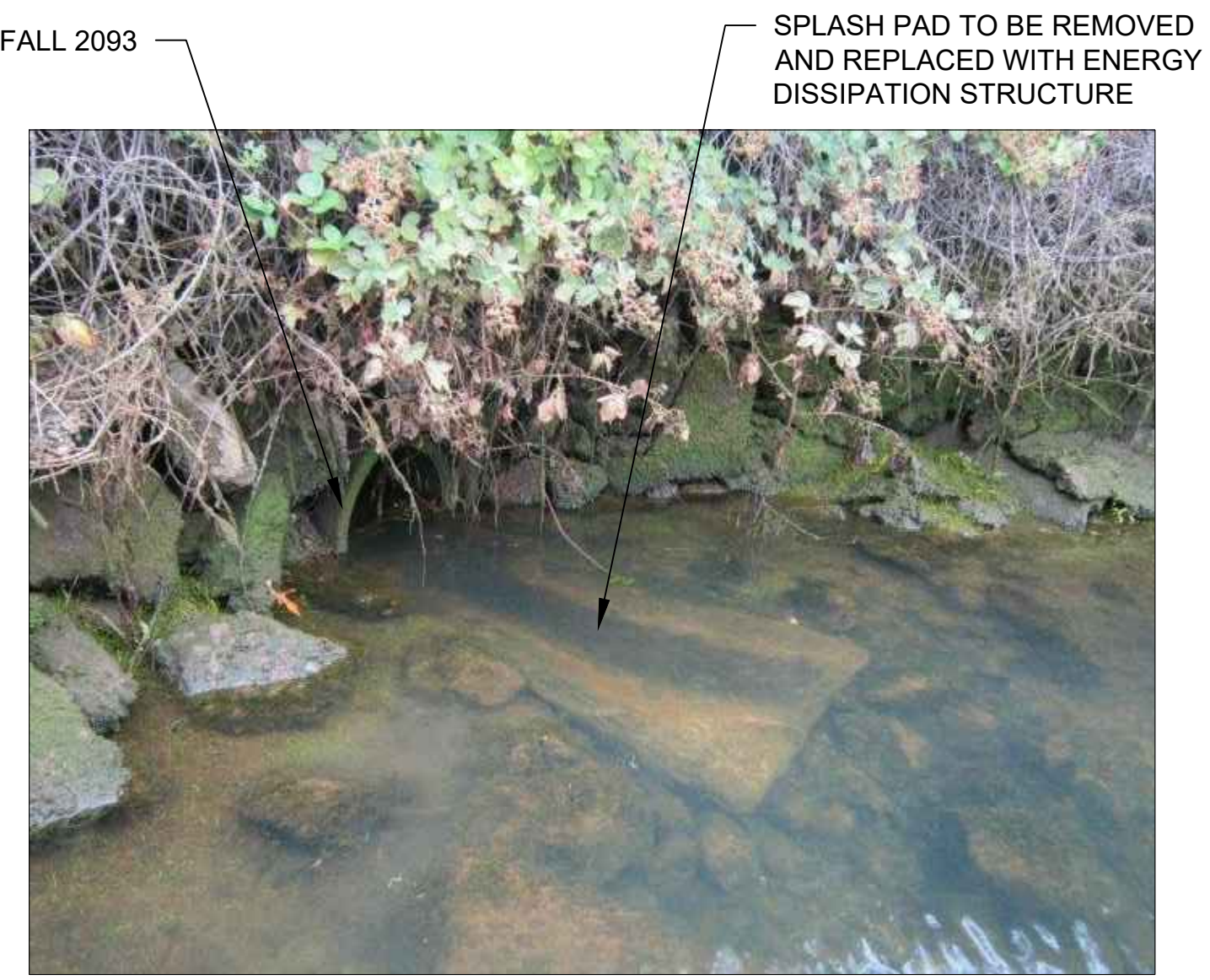
- FOR DREDGING OFFSET AND LIMITS, CUT SLOPE AND RESTORATION, SEE CIVIL DRAWINGS.
- PROTECT OUTFALL PIPE IN PLACE. CONSTRUCT ENERGY DISSIPATION STRUCTURE CONSISTING OF GABION MATTRESS FOUNDATION AND RIPRAP. SEE DRAWING S202.
- MAINTAIN 3'-0" CONSTRUCTION EQUIPMENT OFFSET FROM ACTIVE OUTFALLS - 2214, 2075, 2077, 2073 AND 2093.

REFERENCE DRAWINGS:

S202 AND S203 OUTFALLS: ENERGY DISSIPATION - PLANS, ELEVATIONS, AND SECTIONS



OUTFALLS
PHOTO
SCALE: NONE



OUTFALL 2093
PHOTO
SCALE: NONE



OUTFALL 2094
PHOTO
SCALE: NONE

COLOR IMAGE
THIS DRAWING IS COMPOSED USING COLOR IMAGES OR PHOTOGRAPHS AND MUST BE PLOTTED, PRINTED, AND REPRODUCED IN COLOR TO BE VIEWED ACCURATELY.

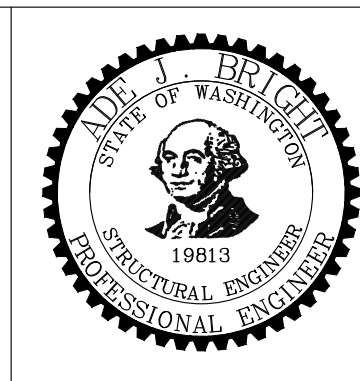
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NO	REVISION DESCRIPTION	BY	APVD	DATE

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STRUCTURAL & CIVIL ENGINEERING
1809 7TH AVENUE SUITE 1100
SEATTLE, WA 98101
P: (206) 625-3777
F: (206) 625-1851

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JULY 2023



DESIGNED/DRAWN: S. LOR	CHECKED:
PROJECT ENGINEER: A. BRIGHT	SCALE: AS NOTED
DESIGN APPROVAL:	PROJECT FILE NO: E00559E18
PROJECT ACCEPTANCE: PRJCT MNGR	CONTRACT NO: C0XXXXCX

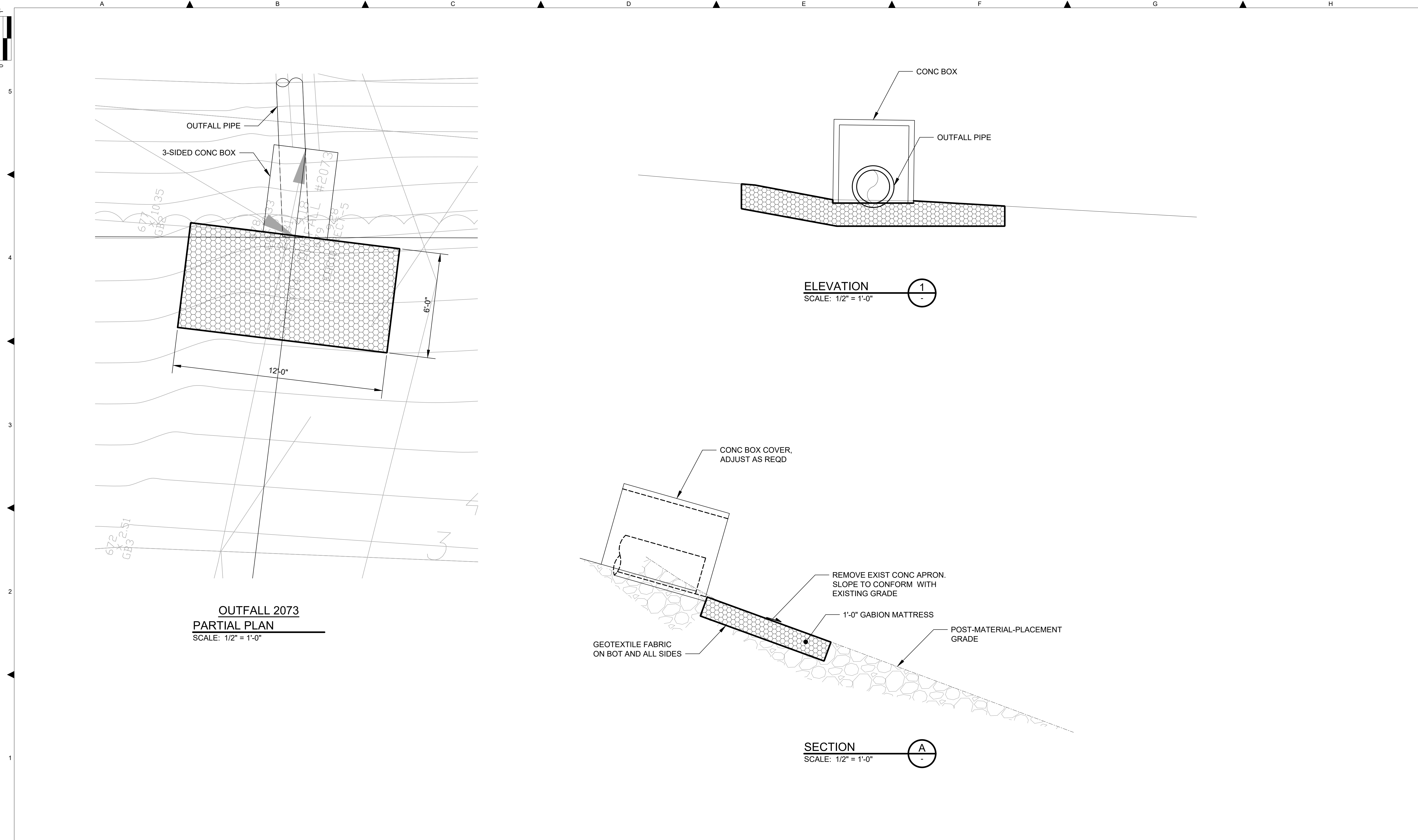


DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
LOWER DUWAMISH WATERWAY UPPER REACH
SEDIMENT CLEANUP

OUTFALLS 2094 & 2093
PLAN AND PHOTOS

DATE: JULY 2023
DRAWING NO: S201
WP701-G-00001
SHT NO / TOTAL REV NO: 85 / 87 0

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OUTFALL 2073
PARTIAL PLAN
 SCALE: 1/2" = 1'-0"

ELEVATION
 SCALE: 1/2" = 1'-0"

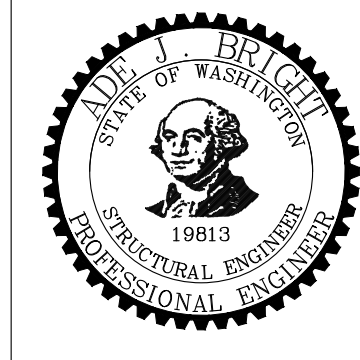
SECTION
 SCALE: 1/2" = 1'-0"

NO	REVISION DESCRIPTION	BY	APVD	DATE

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 STRUCTURAL & CIVIL ENGINEERING
 1809 7TH AVENUE
 SUITE 1100
 SEATTLE, WA 98101
 P: (206) 625-3777
 F: (206) 625-1851

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 JULY 2023



DESIGNED/DRAWN: S. LOR	CHECKED: I. IKEDA
PROJECT ENGINEER: A. BRIGHT	SCALE:
DESIGN APPROVAL:	PROJECT FILE NO: E00559E18
PROJECT ACCEPTANCE: PRJCT MNGR	CONTRACT NO: C0XXXXCXX

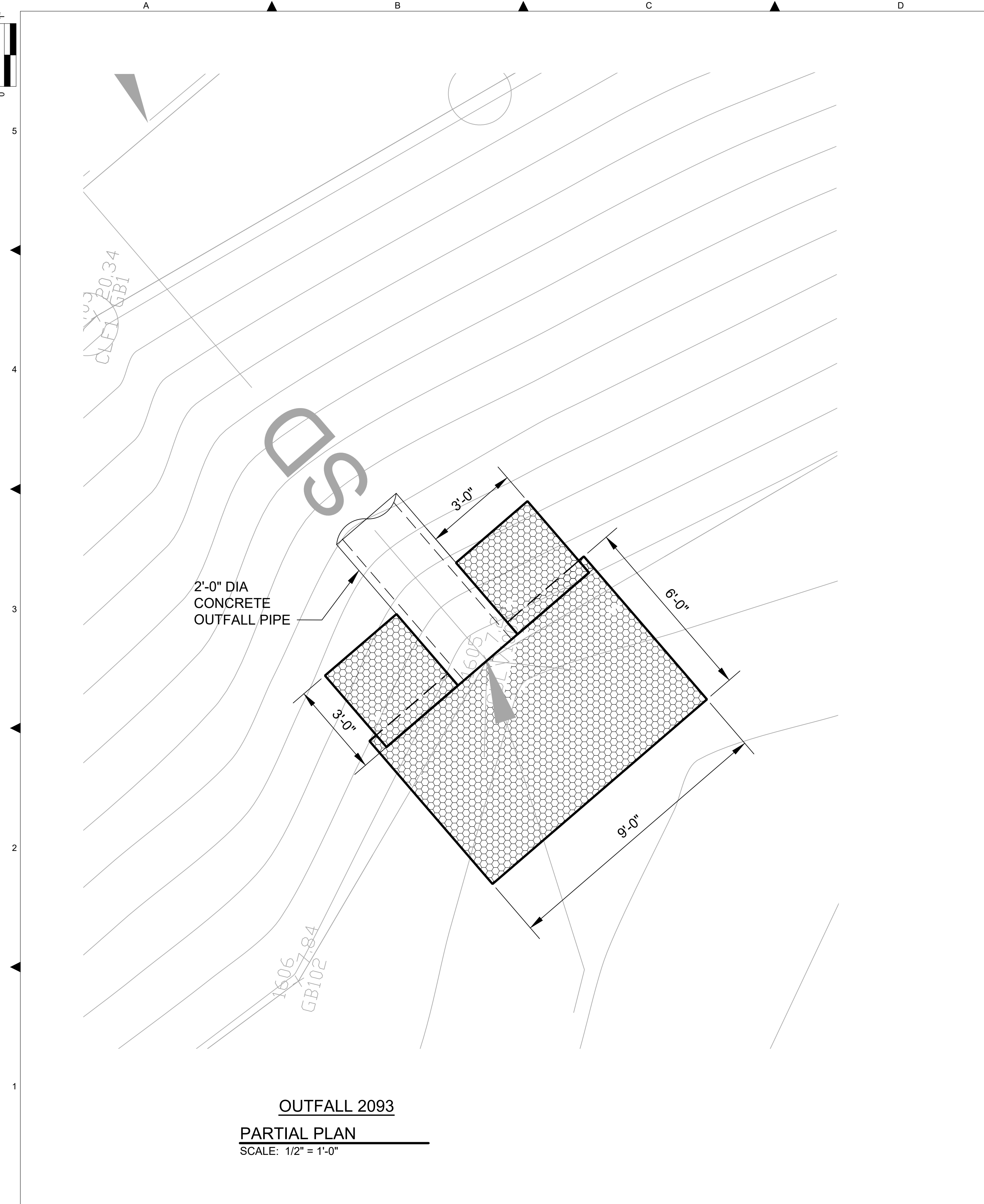


DEPARTMENT OF NATURAL RESOURCES & PARKS
 WASTEWATER TREATMENT DIVISION
 LOWER DUWAMISH WATERWAY UPPER REACH
 SEDIMENT CLEANUP

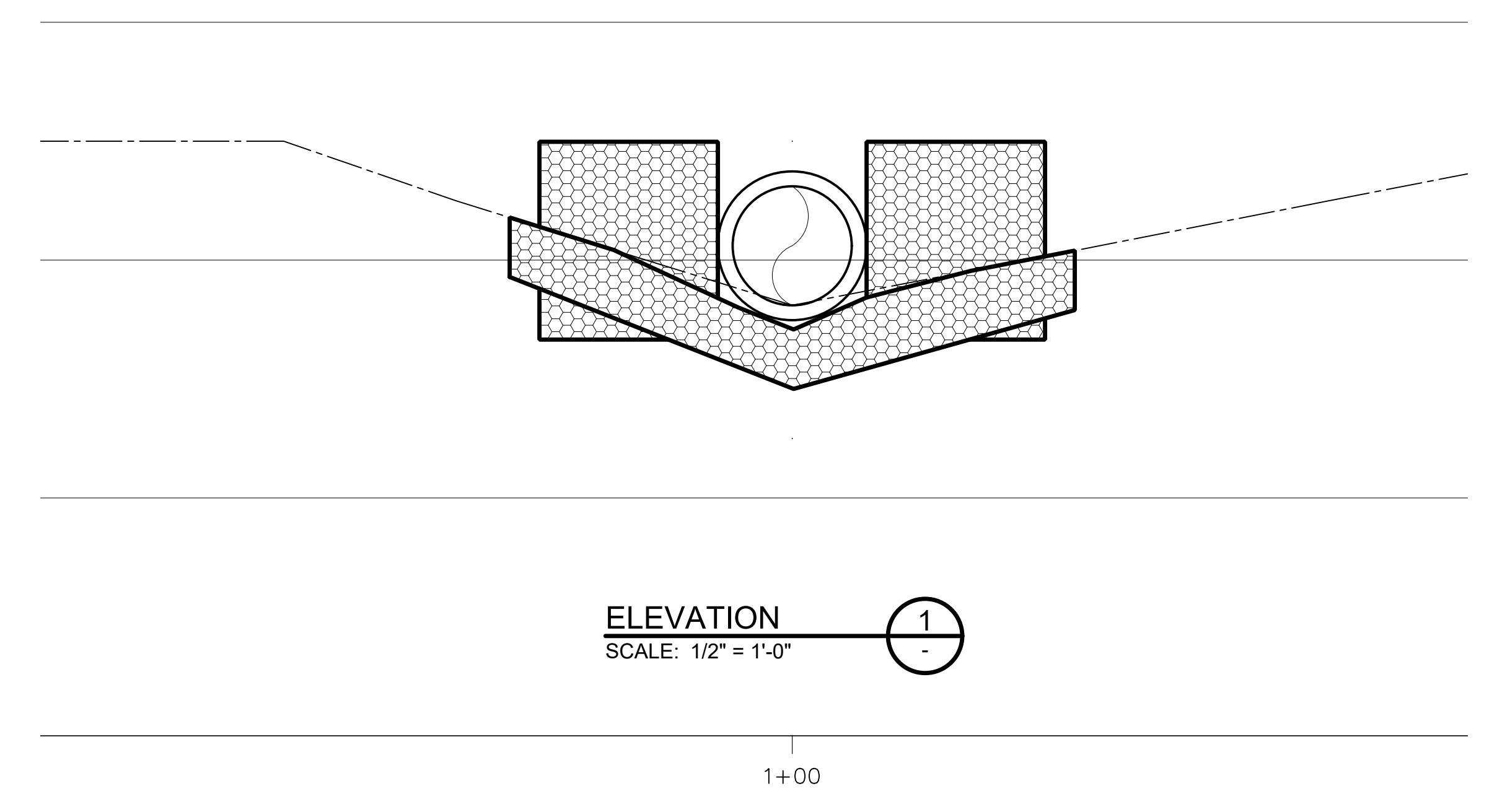
**OUTFALLS ENERGY DISSIPATION
 PLANS, ELEVATIONS AND
 SECTION 1 OF 2**

DATE: JULY 2023
DRAWING NO: S202
WP701-G-00001
SHT NO / TOTAL 86 / 87
REV NO: 0

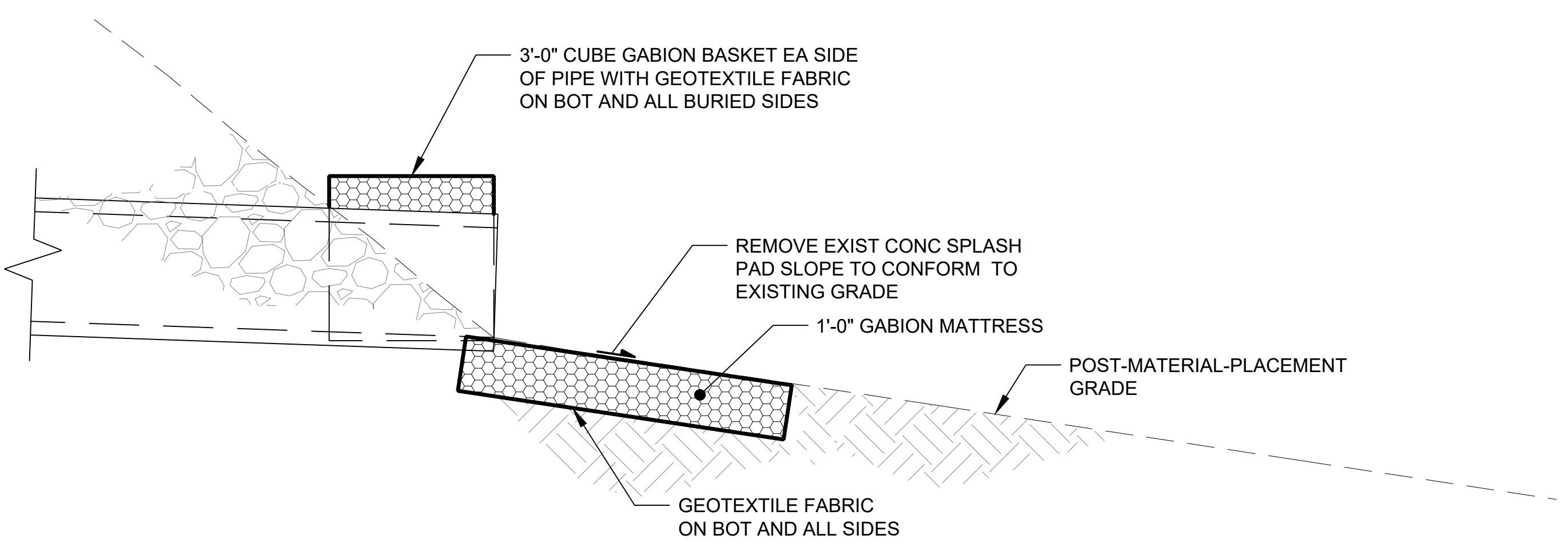
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OUTFALL 2093
PARTIAL PLAN
 SCALE: 1/2" = 1'-0"



ELEVATION
 SCALE: 1/2" = 1'-0"



SECTION
 SCALE: 1/2" = 1'-0"

NO	REVISION DESCRIPTION	BY	APVD	DATE

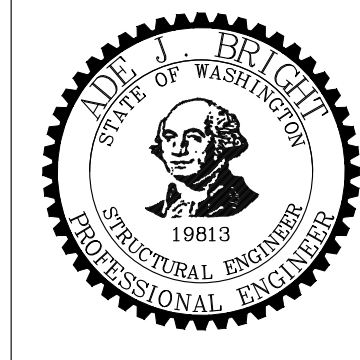
Lower Duwamish Waterway Group
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 1809 7TH AVENUE SUITE 1100
 SEATTLE, WA 98101
 P: (206) 625-3777
 F: (206) 625-1851

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JULY 2023



DESIGNED/DRAWN: S. LOR
 PROJECT ENGINEER: A. BRIGHT
 DESIGN APPROVAL:
 PROJECT ACCEPTANCE: PRJCT MNGR

CHECKED:
 SCALE:
 PROJECT FILE NO: E00559E18
 CONTRACT NO: C0XXXXCX



DEPARTMENT OF NATURAL RESOURCES & PARKS
 WASTEWATER TREATMENT DIVISION
 LOWER DUWAMISH WATERWAY UPPER REACH
 SEDIMENT CLEANUP

**OUTFALLS ENERGY DISSIPATION
 PLANS, ELEVATIONS AND
 SECTIONS 2 OF 2**

DATE: JULY 2023
 DRAWING NO: **S203**
 WP701-G-00001
 SHT NO / TOTAL REV NO: 87 / 87 0