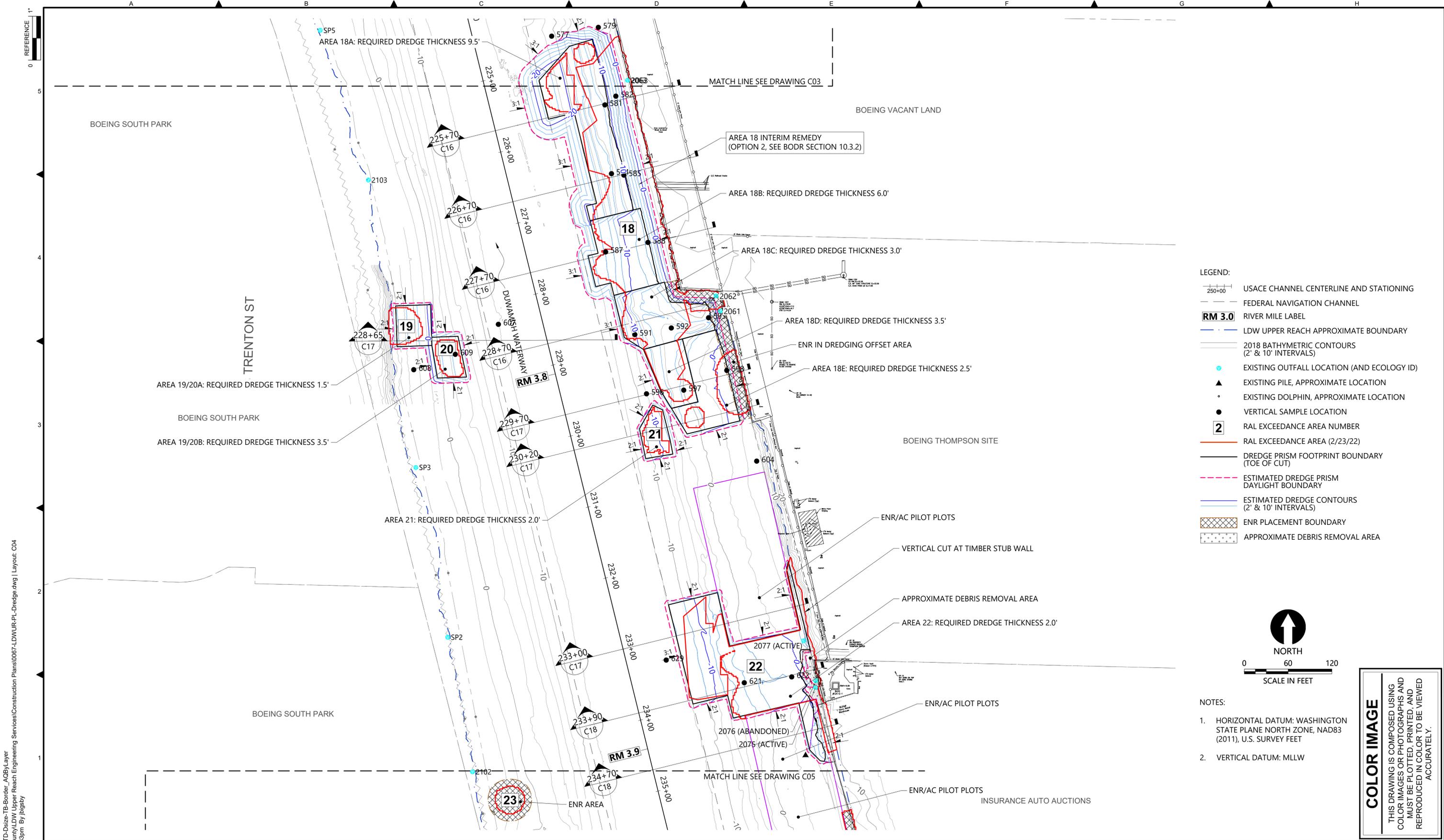


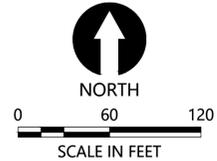
30% Remedial Design Basis of Design Report

Appendix B

Upper Reach 30% Remedial Design for
SMA 10



- LEGEND:**
- USACE CHANNEL CENTERLINE AND STATIONING
 - FEDERAL NAVIGATION CHANNEL
 - RM 3.0** RIVER MILE LABEL
 - LDW UPPER REACH APPROXIMATE BOUNDARY
 - 2018 BATHYMETRIC CONTOURS (2' & 10' INTERVALS)
 - EXISTING OUTFALL LOCATION (AND ECOLOGY ID)
 - EXISTING PILE, APPROXIMATE LOCATION
 - EXISTING DOLPHIN, APPROXIMATE LOCATION
 - VERTICAL SAMPLE LOCATION
 - 2** RAL EXCEEDANCE AREA NUMBER
 - RAL EXCEEDANCE AREA (2/23/22)
 - DREDGE PRISM FOOTPRINT BOUNDARY (TOE OF CUT)
 - ESTIMATED DREDGE PRISM DAYLIGHT BOUNDARY
 - ESTIMATED DREDGE CONTOURS (2' & 10' INTERVALS)
 - ENR PLACEMENT BOUNDARY
 - APPROXIMATE DEBRIS REMOVAL AREA



- NOTES:**
1. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83 (2011), U.S. SURVEY FEET
 2. VERTICAL DATUM: MLLW

COLOR IMAGE
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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

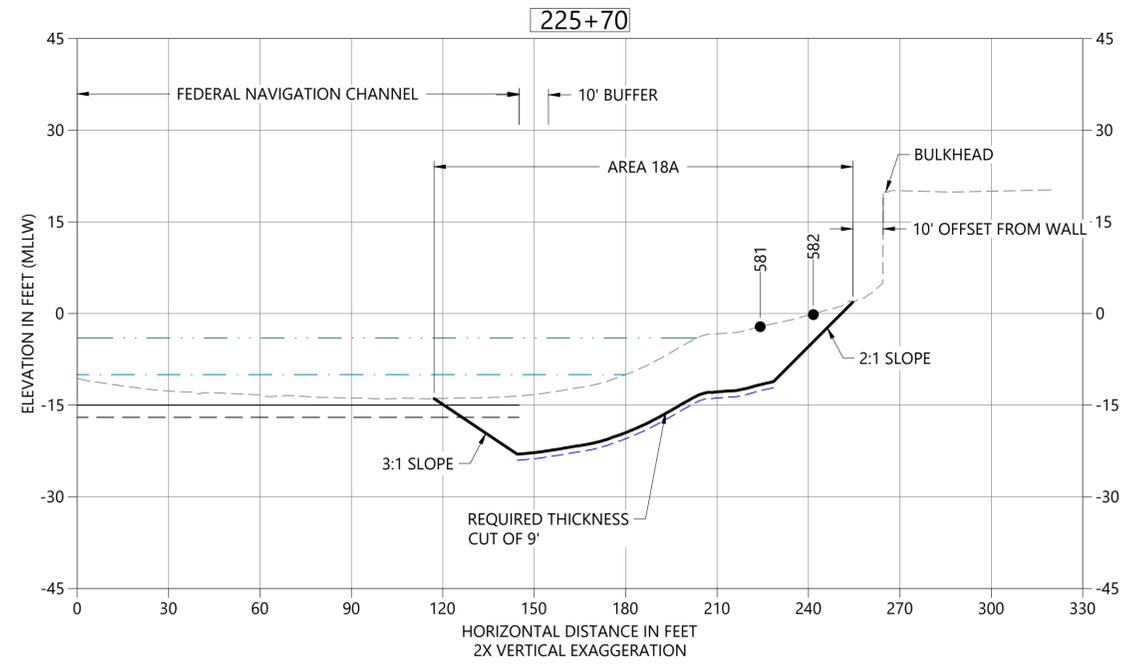


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 LOWER DUWAMISH WATERWAY UPPER REACH
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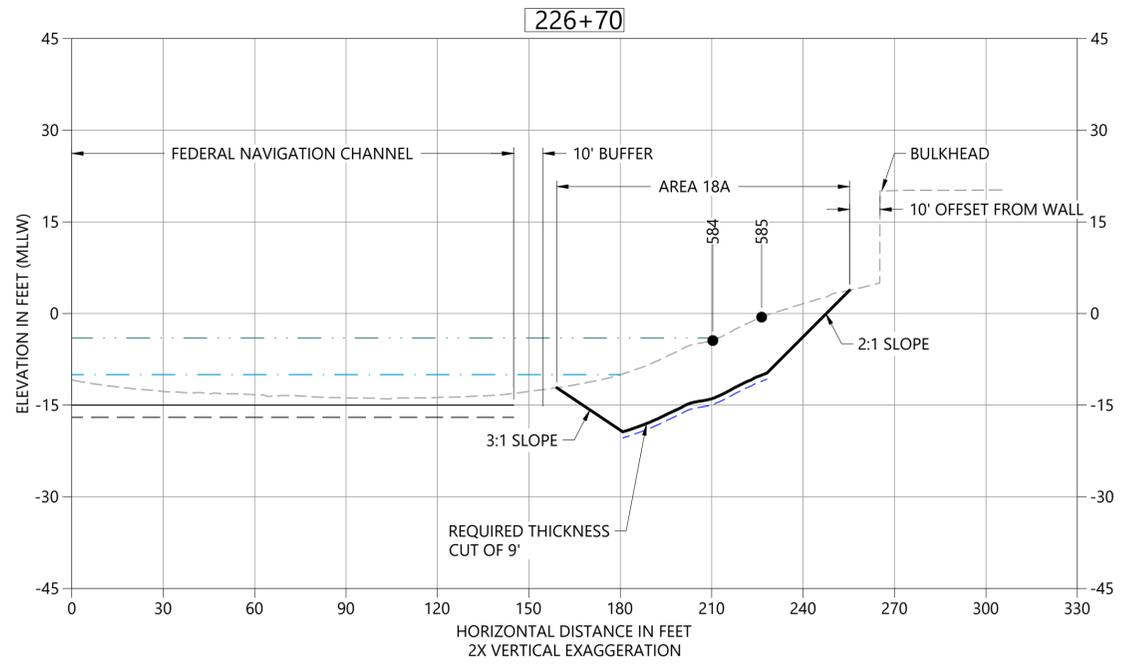
DREDGE PLAN (RM 3.7 TO 3.9)

DATE: AUGUST 2022
 DRAWING NO: **C04**
 SHT NO / TOTAL: 6 / 26
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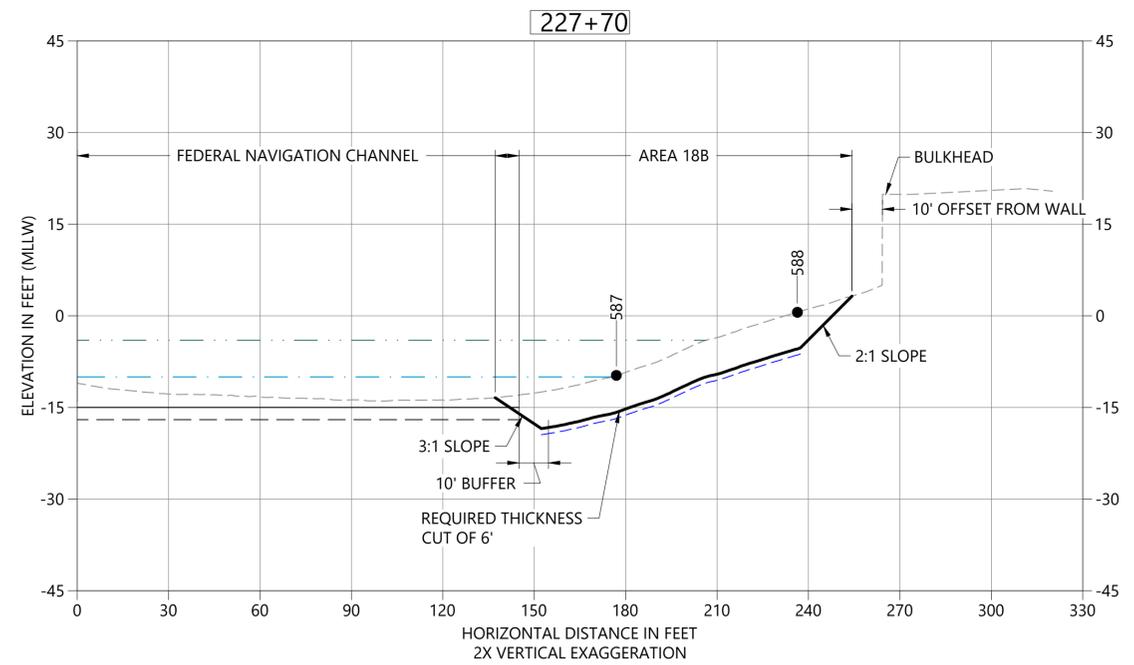
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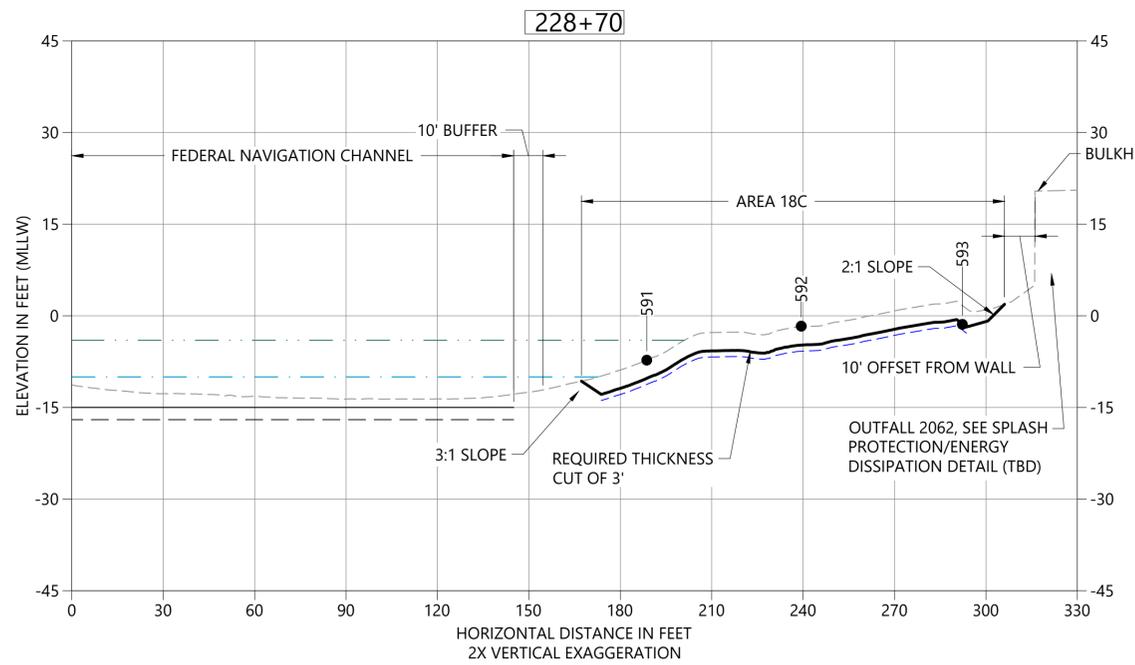
A DREDGE SECTION STA 225+70
 C04 HORIZONTAL SCALE: 1" = 30'
 VERTICAL SCALE: 1" = 15'



B DREDGE SECTION STA 226+70
 C04 HORIZONTAL SCALE: 1" = 30'
 VERTICAL SCALE: 1" = 15'



C DREDGE SECTION STA 227+70
 C04 HORIZONTAL SCALE: 1" = 30'
 VERTICAL SCALE: 1" = 15'



D DREDGE SECTION STA 228+70
 C04 HORIZONTAL SCALE: 1" = 30'
 VERTICAL SCALE: 1" = 15'

- LEGEND:**
- EXISTING BATHYMETRY (2019/20)
 - USACE AUTHORIZED CHANNEL ELEVATION (-15' MLLW)
 - - - USACE MAINTENANCE ELEVATION (-17' MLLW)
 - · - · - INTERTIDAL/SUBTIDAL TRANSITION (-4' MLLW)
 - · - · - LOWEST HABITAT AREA ELEVATION (-10' MLLW)
 - DREDGE DESIGN SURFACE
 - - - 1' ALLOWABLE OVERDREDGE
 - VERTICAL SAMPLE LOCATION

NOTES:
 1. VERTICAL DATUM: MLLW

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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

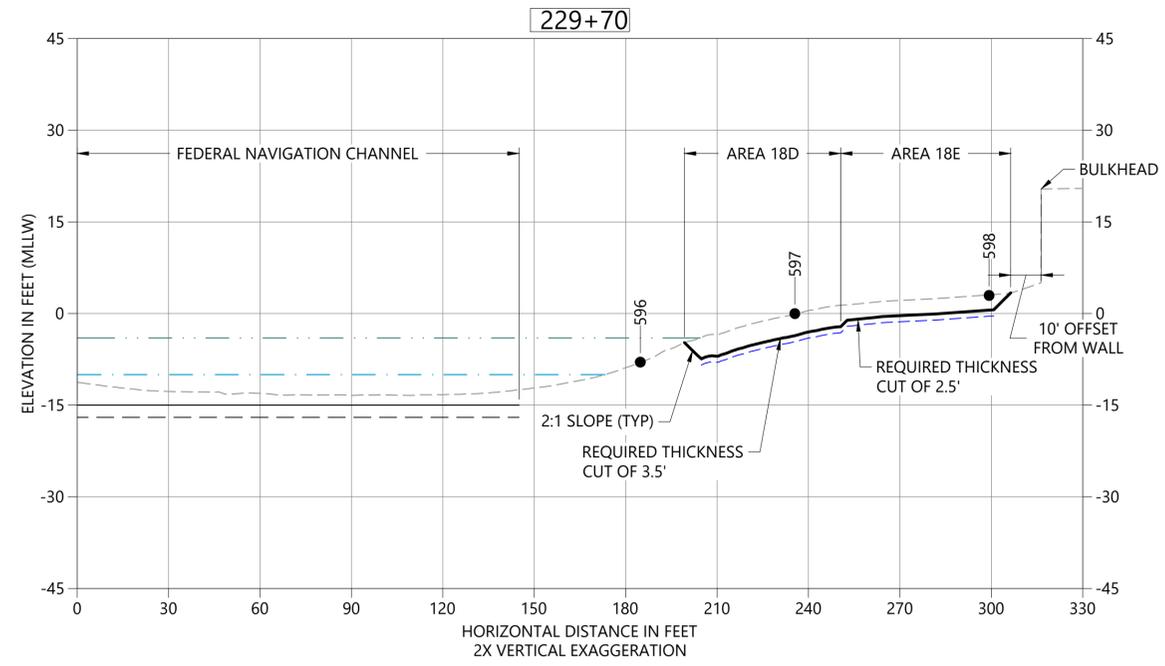


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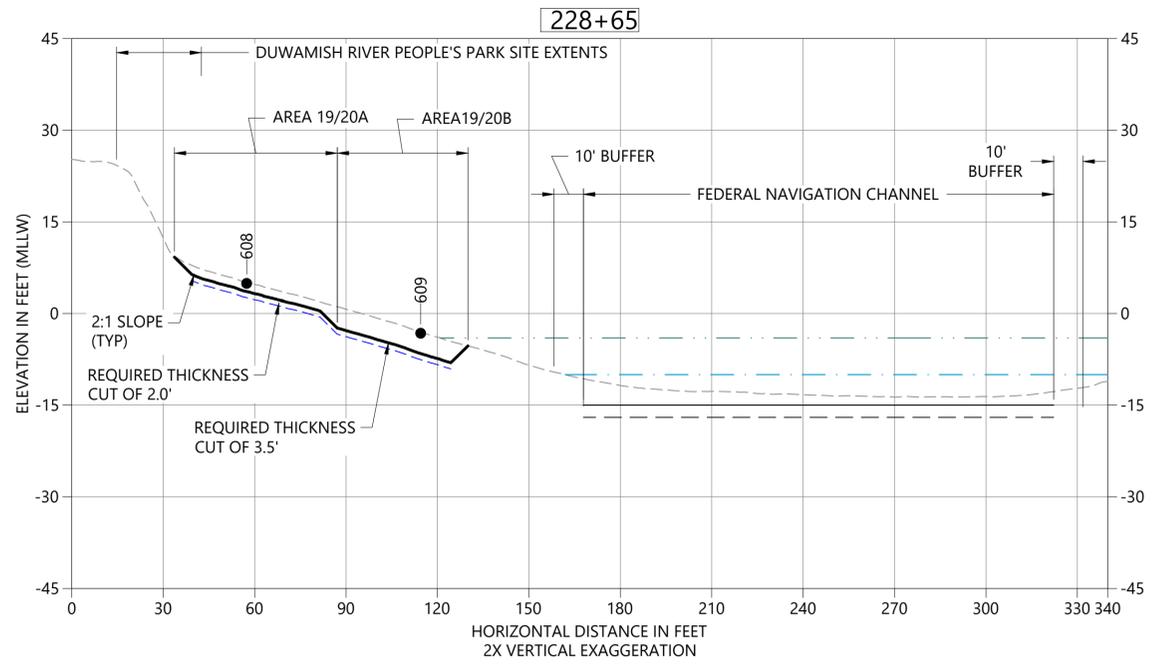
CROSS SECTIONS

DATE: AUGUST 2022
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SHT NO / TOTAL 18 / 26
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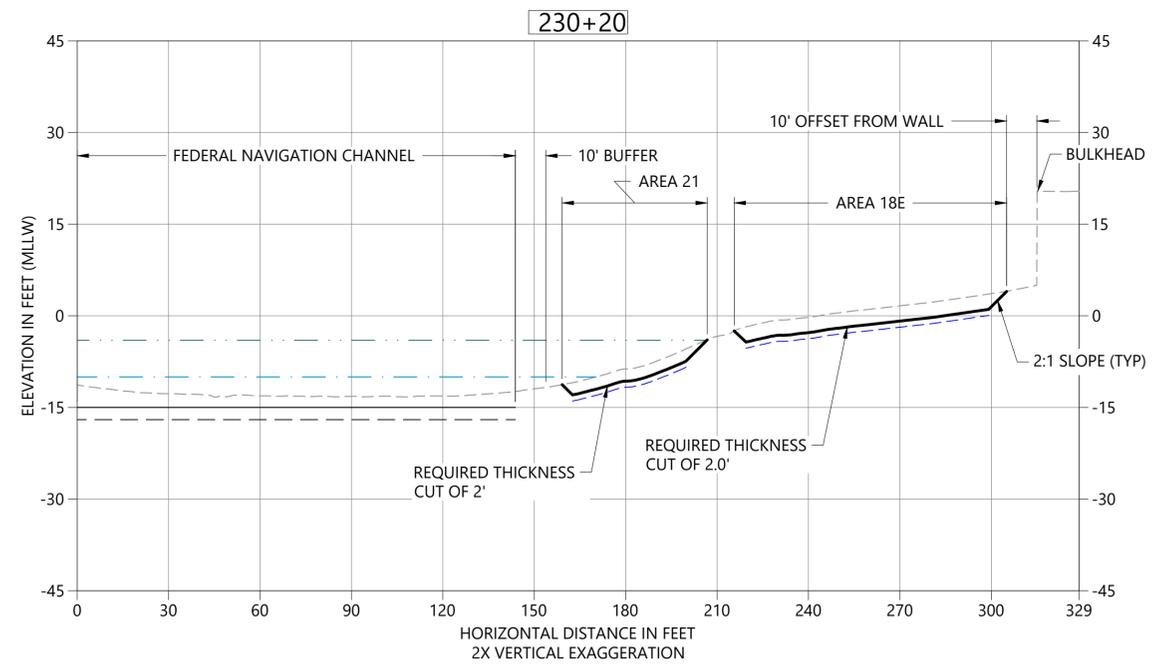
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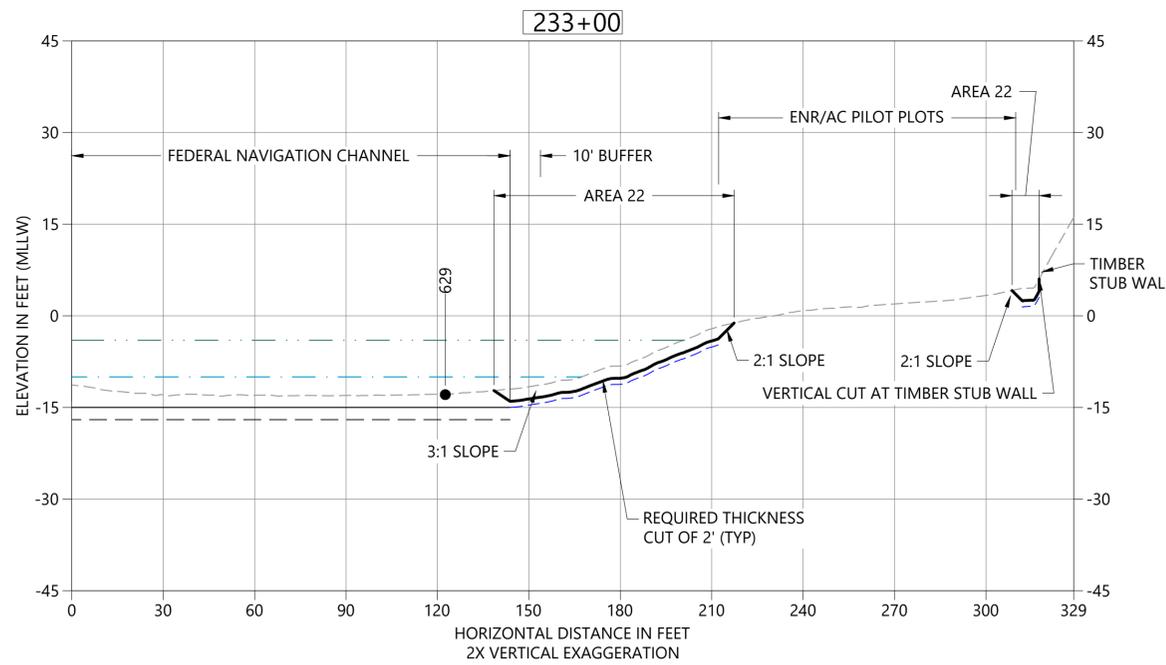
A DREDGE SECTION STA 229+70
 C04 HORIZONTAL SCALE: 1" = 30'
 VERTICAL SCALE: 1" = 15'



B DREDGE SECTION & STA 228+65
 C04 HORIZONTAL SCALE: 1" = 30'
 VERTICAL SCALE: 1" = 15'



C DREDGE SECTION & STA 230+20
 C04 HORIZONTAL SCALE: 1" = 30'
 VERTICAL SCALE: 1" = 15'



D DREDGE SECTION STA 233+00
 C04 HORIZONTAL SCALE: 1" = 30'
 VERTICAL SCALE: 1" = 15'

- LEGEND:**
- EXISTING BATHYMETRY (2019/20)
 - USACE AUTHORIZED CHANNEL ELEVATION (-15' MLLW)
 - - - USACE MAINTENANCE ELEVATION (-17' MLLW)
 - · - · - INTERTIDAL/SUBTIDAL TRANSITION (-4' MLLW)
 - · - · - LOWEST HABITAT AREA ELEVATION (-10' MLLW)
 - DREDGE DESIGN SURFACE
 - - - 1' ALLOWABLE OVERDREDGE
 - VERTICAL SAMPLE LOCATION

NOTES:
 1. VERTICAL DATUM: MLLW

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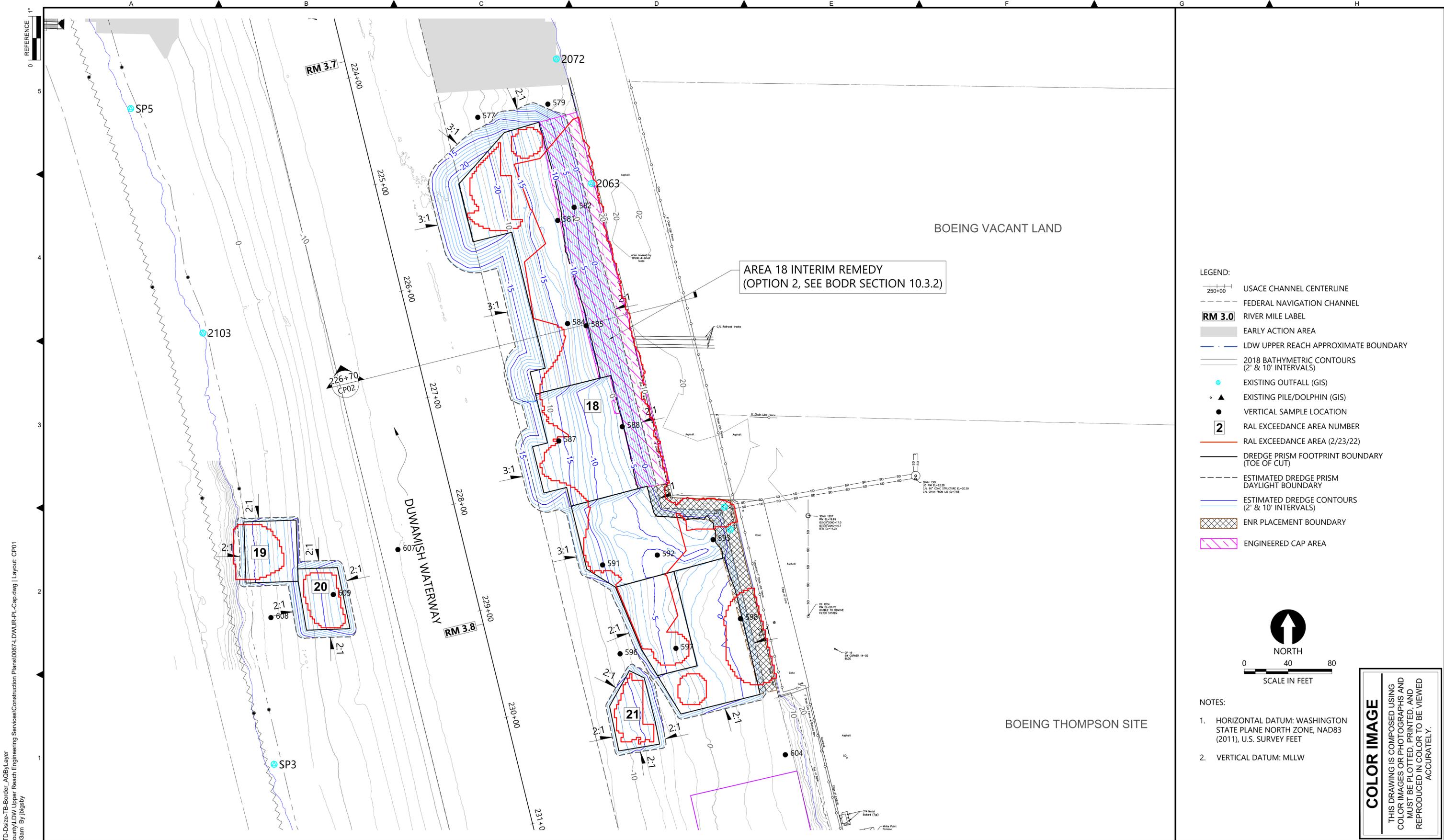
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PROJECT ENGINEER: J. LAPLANTE	SCALE: AS NOTED
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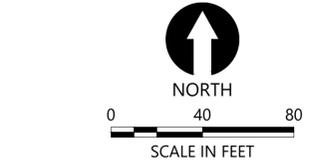
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CROSS SECTIONS

DATE: AUGUST 2022
DRAWING NO: C17
SHT NO / TOTAL 19 / 26
REV NO: 0



- LEGEND:**
- USACE CHANNEL CENTERLINE
 - FEDERAL NAVIGATION CHANNEL
 - RM 3.0** RIVER MILE LABEL
 - EARLY ACTION AREA
 - LDW UPPER REACH APPROXIMATE BOUNDARY
 - 2018 BATHYMETRIC CONTOURS (2' & 10' INTERVALS)
 - EXISTING OUTFALL (GIS)
 - EXISTING PILE/DOLPHIN (GIS)
 - VERTICAL SAMPLE LOCATION
 - 2** RAL EXCEEDANCE AREA NUMBER
 - RAL EXCEEDANCE AREA (2/23/22)
 - DREDGE PRISM FOOTPRINT BOUNDARY (TOE OF CUT)
 - ESTIMATED DREDGE PRISM DAYLIGHT BOUNDARY
 - ESTIMATED DREDGE CONTOURS (2' & 10' INTERVALS)
 - ENR PLACEMENT BOUNDARY
 - ENGINEERED CAP AREA



- NOTES:**
- HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83 (2011), U.S. SURVEY FEET
 - VERTICAL DATUM: MLLW

COLOR IMAGE

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 DESIGN APPROVAL: T. WANG
 PROJECT ACCEPTANCE: PRJCT MNGR

CHECKED: BIGSBY/GRIGA
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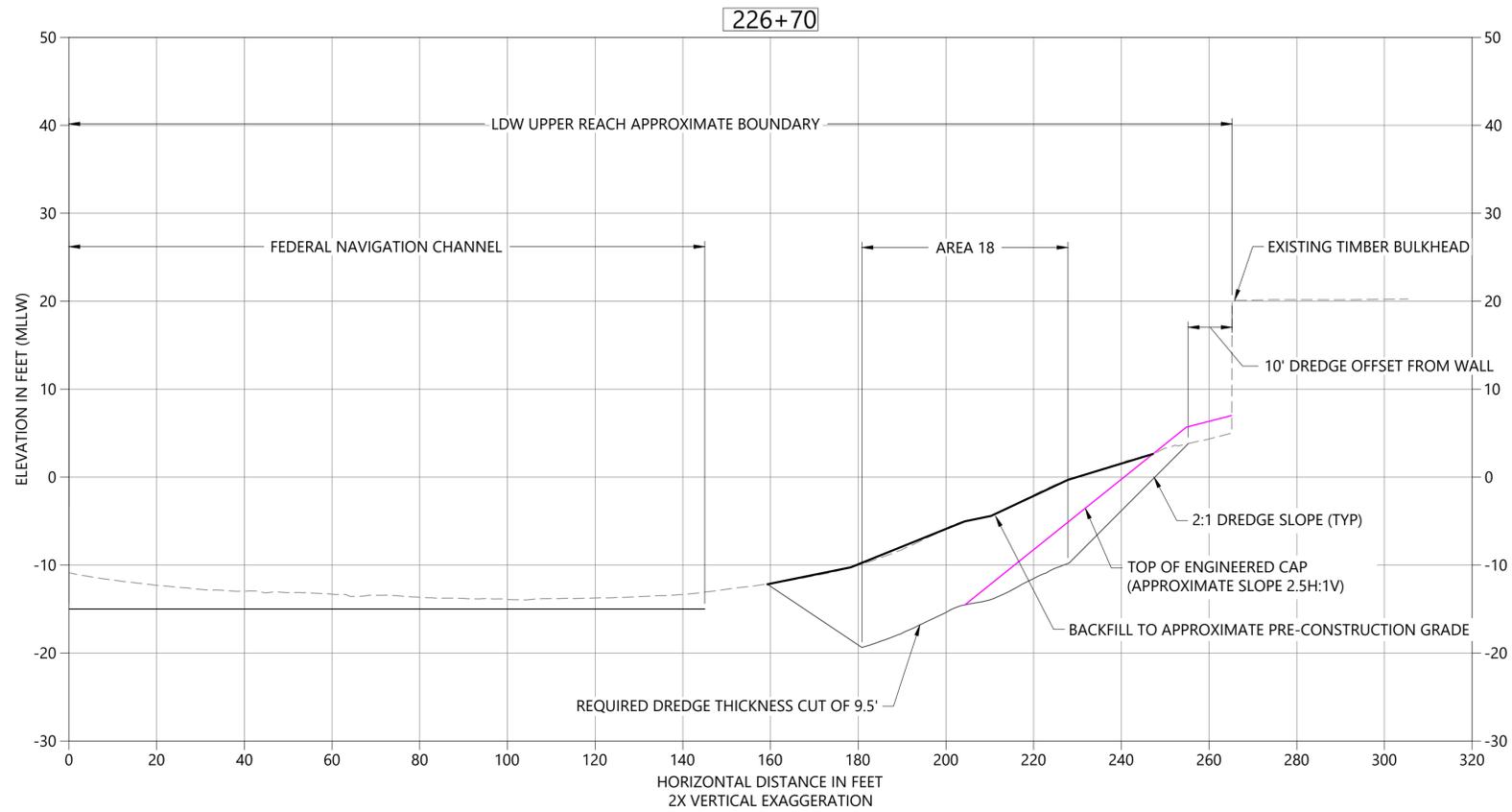


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CAPPING PLAN

DATE: AUGUST 2022
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 SHT NO / TOTAL: 25 / 26
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 PLOTTED: Aug 19, 2022 11:35:12am By jbigby



A ENGINEERED CAP SECTION AREA 18 STA 226+70
 CP01 HORIZONTAL SCALE: 1" = 20'
 VERTICAL SCALE: 1" = 10'

- NOTES:
1. VERTICAL DATUM: MLLW

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DESIGNER KG?	BIGSBY/GRIGA
PROJECT ENGINEER:	SCALE:
J. LAPLANTE	AS NOTED
DESIGN APPROVAL:	PROJECT FILE NO:
T. WANG	E00559E18
PROJECT ACCEPTANCE:	CONTRACT NO:
PRJCT MNGR	C0XXXXCX



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CAPPING SECTIONS

DATE:	AUGUST 2022
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