STRUCTURAL NOTES

CODES AND STANDARDS

- 1. ALL METHODS AND MATERIALS SHALL CONFORM TO BOTH THE INTERNATIONAL BUILDING CODE (IBC) (2019 EDITION) AND THE INTERNATIONAL EXISTING BUILDING CODE (IEBC) (2019 EDITION) AS AMENDED AND ADOPTED BY THE CITY OF ANCHORAGE
- 2. REINFORCED CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF "SPECIFICATIONS FOR CONCRETE CONSTRUCTION" (ACI 301-20) AND "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318-19).
- 3. STRUCTURAL AND MISCELLANEOUS STEEL FABRICATION AND ERECTION THEREOF SHALL CONFORM TO THE "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" (AISC 303) AND "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS" (AISC 360)
- 4. WELDING OF STRUCTURAL AND MISCELLANEOUS STEEL SHALL CONFORM TO "STRUCTURAL WELDING CODE - STEEL" (AWS D1.1)
- 5. WELDING OF REINFORCING STEEL SHALL CONFORM TO "STRUCTURAL WELDING CODE - REINFORCING STEEL" (AWS D1.4).
- 6. ALL METHODS AND MATERIALS SHALL CONFORM TO THE STATE OF ALASKA 2019 STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION AS PREPARED BY THE ALASKA DEPARTMENT OF TRANSPORTATION (ADOT) AND THE AMERICAN PUBLIC WORKS ASSOCIATION (APWA) ALASKA CHAPTER.

GENERAL

- 1. THESE NOTES CONTAIN GENERAL INFORMATION ONLY. THE CONTRACTOR SHALL VERIFY INFORMATION PROVIDED WITH THE SPECIFICATIONS AND OTHER DOCUMENTS AND BRING ANY CONFLICTS TO THE ATTENTION OF THE ENGINEER BEFORE BEGINNING AFFECTED WORK. THE ENGINEER WILL RESOLVE ANY SUCH CONFLICT
- 2. ALL DIMENSIONS AND DETAILS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO FABRICATION AND CONSTRUCTION.
- 3. ALL SHOP DRAWINGS FOR PRECAST CONCRETE ELEMENTS, REINFORCING STEEL, MISCELLANEOUS STEEL, AND FENDER SYSTEM SHALL BE SUBMITTED TO THE ENGINEER AND WILL BE REVIEWED BY THE ENGINEER PRIOR TO FABRICATION. FOR ADDITIONAL ITEMS REFER TO TECHNICAL SPECIFICATIONS.
- 4. ALL ELEVATIONS REFER TO MEAN LOWER LOW WATER (MLLW) EL 0.00 FT AS DEFINED BY THE U.S. ARMY CORPS OF ENGINEERS. SEE SURVEY CONTROL DRAWINGS FOR HORIZONTAL AND VERTICAL SURVEY CONTROL
- 5. EXISTING FEATURES SHOWN ON THESE DRAWINGS ARE BASED ON AS-BUILT DATA AND RECENT SURVEYS. THE LOCATIONS OF EXISTING UTILITIES AND OTHER FEATURES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO PERFORMING THE ASSOCIATED WORK. USE A LOCATOR SERVICE AND EXCAVATE TO EXPOSE UTILITY LINES.
- 6. THE CONTRACTOR SHALL BRING ANY CONFLICTS BETWEEN EXISTING UTILITIES AND THE WORK TO THE ENGINEER'S ATTENTION PRIOR TO START OF CONSTRUCTION ON THE AFFECTED WORK.
- ANY DAMAGE CAUSED BY THE CONTRACTOR'S OPERATIONS TO EXISTING FEATURES, STRUCTURES, AND UTILITIES THAT ARE TO REMAIN, SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE

REINFORCED CONCRETE

1. REINFORCING STEEL

- A. PRESTRESSING STEEL SHALL BE UNCOATED LOW-RELAXATION SEVEN-WIRE STRAND CONFORMING TO ASTM A 416, GRADE 270.
- ALL REINFORCING STEEL SHALL BE DEFORMED STEEL BARS CONFORMING TO Β. ASTM A 615, GRADE 60, UNLESS NOTED OTHERWISE. SEE SPECIFICATIONS.
- ALL DOWELS FOR PILING SHALL BE OF WELDABLE QUALITY AND SHALL CONFORM C TO ASTM A 706 GRADE 60
- EPOXY COATED REINFORCEMENT SHALL CONFORM TO ASTM A 934. D.
- E. WIRE FOR SPIRAL REINFORCEMENT SHALL CONFORM TO ASTM A 82.
- SEE SPECIFICATIONS FOR HIGH-STRENGTH BAR, WEI DED HEADED STUD F MECHANICAL COUPLER, AND HEADED REINFORCEMENT REQUIREMENTS.
- SPLICING OF LONGITUDINAL REINFORCEMENT OVER 40 FT IN LENGTH, EXCEPT AS G. SPECIFICALLY NOTED ON THE DRAWINGS, WILL BE PERMITTED UNLESS NOTED OTHERWISE. SPLICES SHALL BE CLASS "B" (ACI 318) STAGGERED THRE LENGTHS WITH NO MORE THAN 50% OF THE BARS BEING SPLICED AT ANY ONE LOCATION, BAR SPLICES SHALL COMPLY WITH ACI 318.
- PROVIDE CORNER BARS AT ALL CORNERS. CORNER BARS SHALL MATCH THE Н. NUMBER/SPACING AND DIAMETER OF ALL HORIZONTAL REINFORCEMENT AT THE CORNER. TERMINATED STRAIGHT BARS SHALL EXTEND THE FULL AVAILABLE LENGTH INTO ADJOINING MEMBERS. SPLICE CORNER BAR TO TERMINATED STRAIGHT BAR WITH MINIMUM SPLICE LENGTH BELOV
- DETAIL ALL REINFORCING STEEL IN ACCORDANCE WITH ACI 315, LATEST EDITION. ALL REINFORCING STEEL BENDS SHOWN ARE OUT TO OUT UNLESS OTHERWISE NOTED. USE SEISMIC HOOK DETAILS FOR ALL TIES AND STIRRUPS UNLESS OTHERWISE SHOWN ON THE DRAWINGS.
- ALTERNATE ENDS OF HORIZONTAL TIES (CROSS TIES WITH 135 DEGREE HOOK J. AND 90 DEGREE HOOK) EXCEPT WHEN PLACED AGAINST HARDENED CONCRETE WHERE THE 90 DEGREE HOOK SHALL BE PLACED AT THE HARDENED CONCRETE FACE

INIMUM COMPRESSIVE

RENGTH AT 28 DAYS

MINIMUM COMPRESSIVE

STRENGTH AT 28 DAYS

5000 PSI

- 2. PRECAST CONCRETE
 - PRECAST PRESTRESSED CONCRETE PILES 5000 PSI PRECAST PRESTRESSED CONCRETE GIRDERS PER SCHEDULE, SEE SHEET S-525

3. CAST-IN-PLACE CONCRETE

UNLESS NOTED OTHERWISE

- 4. ALL EXPOSED CORNERS SHALL BE CHAMFERED 3/4", UNLESS OTHERWISE NOTED
- 5. CONSTRUCTION JOINTS SHALL BE PROVIDED ONLY AS NOTED ON THE DRAWINGS AND AS SPECIFICALLY PERMITTED BY THE ENGINEER. ROUGHEN EXISTING CONCRETE RECEIVING NEW CONCRETE TO A MINIMUM 1/4" AMPLITUDE IN ACCORDANCE WITH THE CIFICATIONS. CLEAN AND REMOVE LAITANCE, THEN DAMPEN FOR AT LEAST 12 HOURS BEFORE PLACING NEXT POUR

1

MISCELLANEOUS STEEL

- 2.
- 3
- 4. WITH THE SPECIFICATIONS.
- 5.
- 6.
- 7. APPLIED IN THE FIELD.
- 8

9

- TIE DOWN MAT LINK AN PIN WIDE FI WIDE F
- 10 CRANE STOP N ANCHOR PLATES WT SHAF
- PIN SOCKET M 11. WELDED PLATES

PILING

1.

LOAD PATH

- VERTICAL LOADS: END BEARING
- HORIZONTAL LOADS: 2. PILES

				65% SUBMITTAL
	REV DATE DESCRIPTION BY APVD		A CONTRACT OF ALLSAND	PORT OF ALASKA
VERTEY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING 0 11 11 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	Image: sector	OHD.WSP J/ 1400 W, BENON BLVD, SUITE 400 ANCHORAGE AK EMGINEERING LICENSE 197742(GHD) - AECC238(WSP) 2164152(GHD) - 1113511(WSP) DSGN DR JRG JDM		PORT OF ALASKA MODERNIZATION PROGRAM CARGO TERMINAL 1 DESIGN ANCHORAGE, ALASKA HORIZ SCALE: AS SHOWN DATE: 11/17/23 VERT SCALE: AS SHOWN DATE: 11/17/23 VERT SCALE: AS SHOWN DATE: 11/17/23
	REVISIONS	CONSULTANT	SEAL	VERT SCALE: AS SHOWN SHEET: OF TI-S-UUT

GROUT, MORTAR, DOWEL ADHESIVE, AND CRACK REPAIRS

SEE SPECIFICATIONS

MISCELLANEOUS AND STRUCTURAL STEEL SHAPES AND PLATES, EXCEPT AS NOTED OTHERWISE, SHALL CONFORM TO THE SPECIFICATIONS

BOLTS AND NUTS SHALL CONFORM TO ASTM A 307, UNLESS NOTED OTHERWISE

ANCHOR BOLT OR ANCHOR RODS SHALL CONFORM TO ASTM F 1554, GRADE 55, UNLESS NOTED OTHERWISE

FOR ITEMS TO BE COATED, GALVANIZED, OR GALVANIZED AND COATED, REFER TO THE SPECIFICATIONS. REPAIR DAMAGE TO COATINGS AND GALVANIZING IN ACCORDANCE

PROVIDE BLEED HOLES IN EMBEDDED PLATES AND SHAPES AT 24-IN. ON CENTER

ALL MISCELLANEOUS PIPE SHALL CONFORM TO ASTM A 53 GRADE B OR ASTM A 106 GRADE B OR C UNLESS NOTED OTHERWISE.

ALL MISCELLANEOUS STEEL INCLUDING FASTENERS, BOLTS AND NUTS, MUST BE HOT DIP GALVANIZED, UNLESS OTHERWISE NOTED, GALVANIZE ITEMS AFTER FABRICATION TO THE EXTENT POSSIBLE. GALVANIZING ACCIDENTALLY DAMAGED AND/OR DAMAGED BY WELDING IN THE FIELD MUST BE RESTORED WITH A GALVANIZED COMPOUND

70W

WELDING SHALL CONFORM TO AWS D1.1 AND AWS D1.4 STANDARDS. WELDING ELECTRODES SHALL CONFORM TO AWS A5.1 OR A5.5 SERIES E70XX.

TERIALS	
ND ANCHOR PLATE	ASTM A709, HPS 70V ASTM A311, GR. 70
LANGE	ASTM A992, GR. 50
LANGE STIFFENERS	ASTM A572, GR. 50
MATERIALS	
RBOLTS	F1554, GR. 105
	ASTM 572, GR. 50
PE	ASTM A992, GR. 50
IATERIALS	
HEADED CONCRETE ANCHORS	ASTM A108
	ASTM 572, GR. 50

PILES SHALL BE DRIVEN TO THE REQUIRED TIP ELEVATIONS AND MINIMUM CAPACITIES INDICATED, SEE SPECIFICATIONS

LOADS ARE DISTRIBUTED THROUGH CONCRETE CRANE BEAMS AND DECK SYSTEM TO, PILE CAPS, PILE CAPS AND CRANE BEAMS TO PILES, PILES TO SOIL IN FRICTION AND

LOADS, INCLUDING SEISMIC FORCES, SOIL PRESSURE, SHIP IMPACT, AND MOORING FORCES ARE TRANSMITTED THROUGH THE DECK ACTING AS A DIAPHRAGM TO THE

DESIGN CRITERIA

DESIGN LOADS:

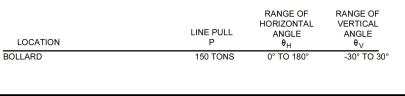
- 1. UNIFORM LIVE LOAD ON PIER (MATCH EXISTING):
- A. 1000 PSF DECK
- B. 800 PSF PILES

UNIFORM LIVE LOAD SHALL NOT BE APPLIED WITHIN 4' OF A CRANE RAIL CONCURENT WITH RAIL MOUNTED CRANE LOADS

- 2. BERTHING:
- A. VESSELS
 - 1. MATSON ANCHORAGE LENGTH OVERALL (LOA): 710 FEET BEAM: 78 FEET DRAFT 33.9 FEET DISPLACEMENT 38,500 LT APPROACH ANGLE: 10 DEGREES PERPENDICULAR VELOCITY: 0.16 KNOTS (0.26 FT/S)
 - MATSON MAUNALEI 2. LENGTH OVERALL (LOA): 691 FEET BEAM: 98 FEET DRAFT 37.4 FEET DISPLACEMENT: 46.000 LT APPROACH ANGLE: 10 DEGREES PERPENDICULAR VELOCITY: 0.16 KNOTS (0.26 FT/S)
 - PROJECTED MATSON SHIP 3. LENGTH OVERALL (LOA): **919 FEET** BEAM. **137 FEET** DRAFT 45.3 FEET DISPLACEMENT: 100.000 LT APPROACH ANGLE: 10 DEGREES PERPENDICULAR VELOCITY: 0.16 KNOTS (0.26 FT/S)
 - NORWEGIAN ENCORE 4. 1,094 FEET 136 FEET LENGTH OVERALL (LOA): BEAM: 28.5 FEET DRAFT DISPLACEMENT: 80,160 LT APPROACH ANGLE: **10 DEGREES** PERPENDICULAR VELOCITY: 0.24 KNOTS (0.40 FT/S)
 - USNS BOB HOPE 5. 949 FEET LENGTH OVERALL (LOA): **106 FEET** BEAM: DRAFT: 37.1 FEET DISPLACEMENT: 67,500 LT APPROACH ANGLE: 10 DEGREES PERPENDICULAR VELOCITY: 0.24 KNOTS (0.40 FT/S)
- B. FENDER REQUIREMENTS
 - 1. MINIMUM BERTHING ENERGY = XXX KIP-FT
 - MAXIMUM BERTHING REACTION = XXX KIPS 2







6. CONTAINER CRANE LOADS:

WHEEL LOADS ARE EXPRESSED AS EQUIVALENT UNIFORM DISTRIBUTION LOADS BASED ON EIGHT WHEELS PER CORNER SPACED AT 4'-11" ON CENTER.

UNIFORM DISTRIB		SERVICE L	OAD (KLF)	STRENGTH LOAD (KLF)			
UNIFORIVI DISTRIB	UTED LOADS	LANDSIDE	WATERSIDE	LANDSIDE	WATERSIDE		
WHARF OPERATING	VERTICAL	36	32	45	41		
AREAS	LATERAL TO	1.8	1.9	2.1	2.3		
AILEAD	CRANE RAIL	1.8	1.5	2.1			
CRANE STOWAGE	VERTICAL	45	38	67	57		
AREAS*	LATERAL TO	3.3	3.6	4.9	5.3		
AREAS	CRANE RAIL	5.5	5.0	4.9			

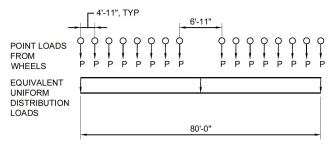
- PIN SOCKETS (PARALLEL TO CRANE LOAD): A.
- P = 245 KIPS PER RAIL (SERVICE) P = 395 KIP PER RAIL (STRENGTH)
- B. CRANE STOPS (HORIZONTAL LOADS):
 - WITHOUT STABILITY STOOLS: P = 650 KIPS PER STOP (SERVICE) P = 780 KIPS PER STOP (STRENGTH) WITH STABILITY STOOLS: P = 925 KIPS PER STOP (SERVICE) P = 1110 KIPS PER STOP (STRENGTH)
- C. CRANE TIE-DOWNS (UPLIFT LOAD PER CORNER):
 - P = 480 KIPS (SERVICE)P = 770 KIPS (STRENGTH)
- 7. LOAD COMBINATIONS:

PER TMC, LOAD COMBINATIONS ARE FROM THE 2019 IEBC AND 2019 IBC. VESSEL LOADS (BERTHING, MOORING) HAVE BEEN INCLUDED PER CHAPTER 31F OF 2010 CBC.

- LRFD (STRENGTH DESIGN & STRUCTURAL CAPACITY CHECK)
 - U1 = 1.2D + 1.6L + 1.5CLop + 1.2B + 1.6W + 1.2C + 1.6H (OPERATING
 - U2 = 1.2D + 1.6L + 1.3CLst + 1.2B + 1.6Wst + 1.2C + 1.6H (STOWED, VESSEL NOT MOORED)
 - U3 = 1.2D + 1.6L + 1.0CLov + 1.2B + 1.0LATG + 1.2C + 1.6H (OVERLOAD)
 - U4 = 1.2D + 1.2CLd+ 1.2B + 1.6W + 1.2C + 1.6H + 1.6 BE (BERTHING)
 - U5 = 1.2D + 1.6L + 1.2B + 1.6W + 1.5CLop + 1.2C + 1.6H + 1.6M (MOORING)
 - U6 = 1.4(D+L+EQ) (EXTRE
 - U7 = 0.9D ± 1.4EQ (EXTREME)
 - (GEOTECHNICAL PILE CAPACITY & STRUCTURE SERVICEABILITY)
 - S1 = 1.0D + 1.0L + 1.0CLop + 1.0B + 1.0W + 1.0C + 1.0H (OPERATING) S2 = 1.0D + 1.0L + 1.0CLst + 1.0B + 1.0Wst + 1.0C + 1.0H (STOWED, VESSEL NOT MOORED) S3 = 1.0D + 1.0L + 1.0CLov + 1.0B + 1.0LATG + 1.0C + 1.0H (OVERLOAD) S4 = 1.0D + 1.0CLd + 1.0B + 1.0W + 1.0C + 1.0H + 1.0BE (BERTHING)
 - = 1.0D + 1.0L + 1.0B + 1.0 W + 1.0CLop + 1.0C + 1.0H + 1.0M (MOORING)
 - 6 = D + L + EQ

S7 = 0.85D ± EQ

8. CONTAINER CRANE WHEEL LOAD DIAGRAM



CONCENTRATED LIVE LOAD (MATCH EXISTING):

- AASHTO HS25 TRUCK A

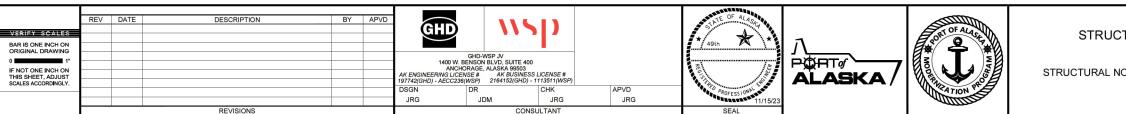
- 10. SPECIAL INSPECTION:
- Α. SPECIAL INSPECTION WITH THE ENGINEER.
- CHAPTER 17 ARE AS FOLLOWS:
 - CONCRETE
 - DRILLED-IN DOWELS 3.
 - REINFORCING STEEL 4
 - STRUCTURAL WELDING 5.
 - PILING

6.

LEGEND:

- B BOUYANCY LOAD **BE - BERTHING LOAD** C - CURRENT LOAD D - STRUCTURE DEAD LOAD CLd - CONTAINER CRANE DEAD LOAD EQ - EARTHQUAKE LOAD (INCLUDES CLeq) H - SOIL LOAD L - UNIFORM LIVE LOAD OR CONCENTRATED LIVE LOAD LATG - LATERAL GANTRY LOAD

- (INCLUDES CLd) CLeq CONTAINER CRANE DEAD LOAD INCLUDING VERTICAL EQ
- M MOORING LOAD W - WIND LOAD (55 MPH)
- Wst STOWED WIND LOAD (85 MPH)



CONTAINER HANDLERS TAYLOR TETCP 1100I OR EQUIVALENT



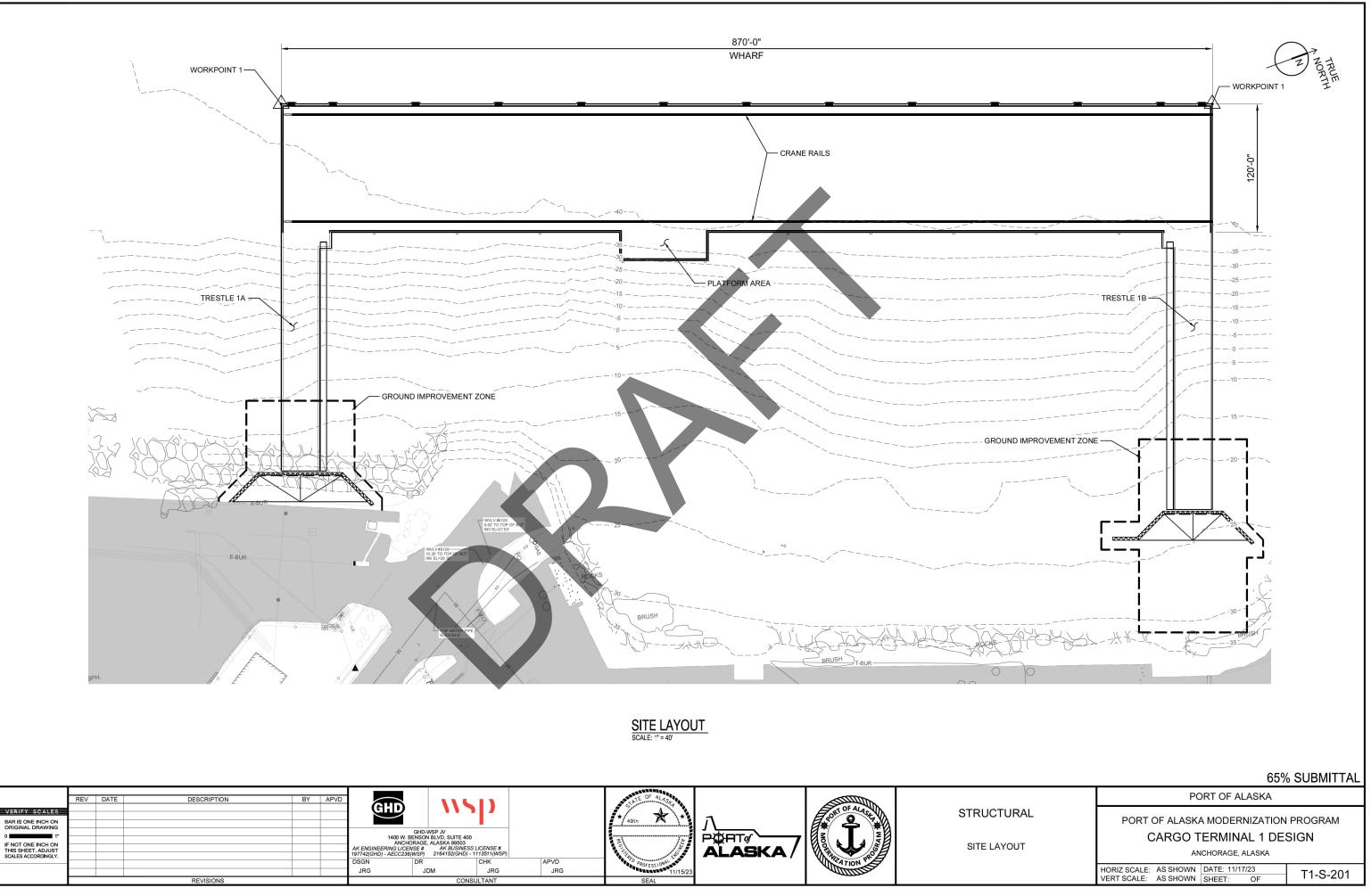
SPECIAL INSPECTION WILL BE PROVIDED BY THE PORT. COORDINATE

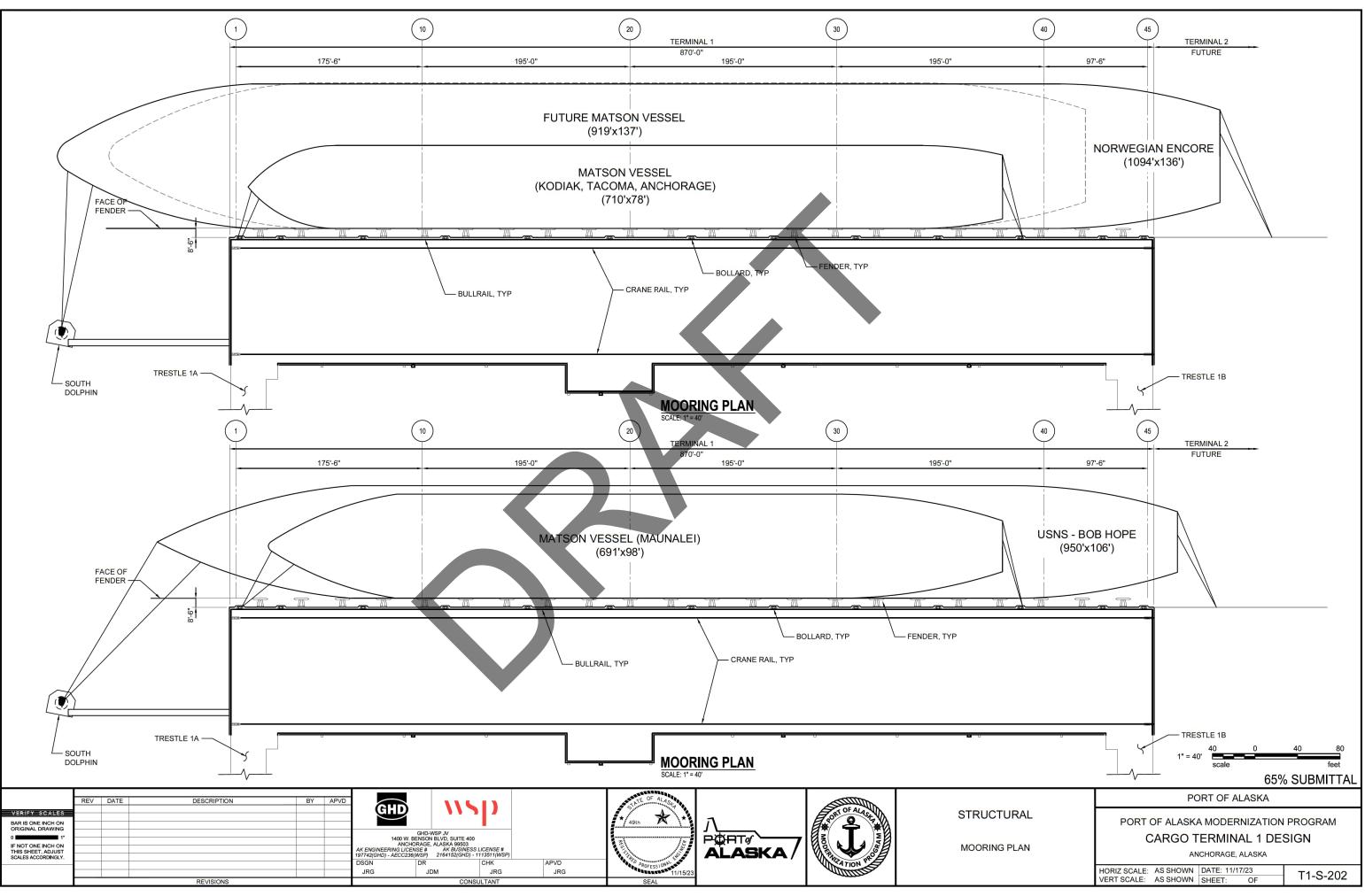
THE ELEMENTS REQUIRING SPECIAL INSPECTION PER IEBC & IBC

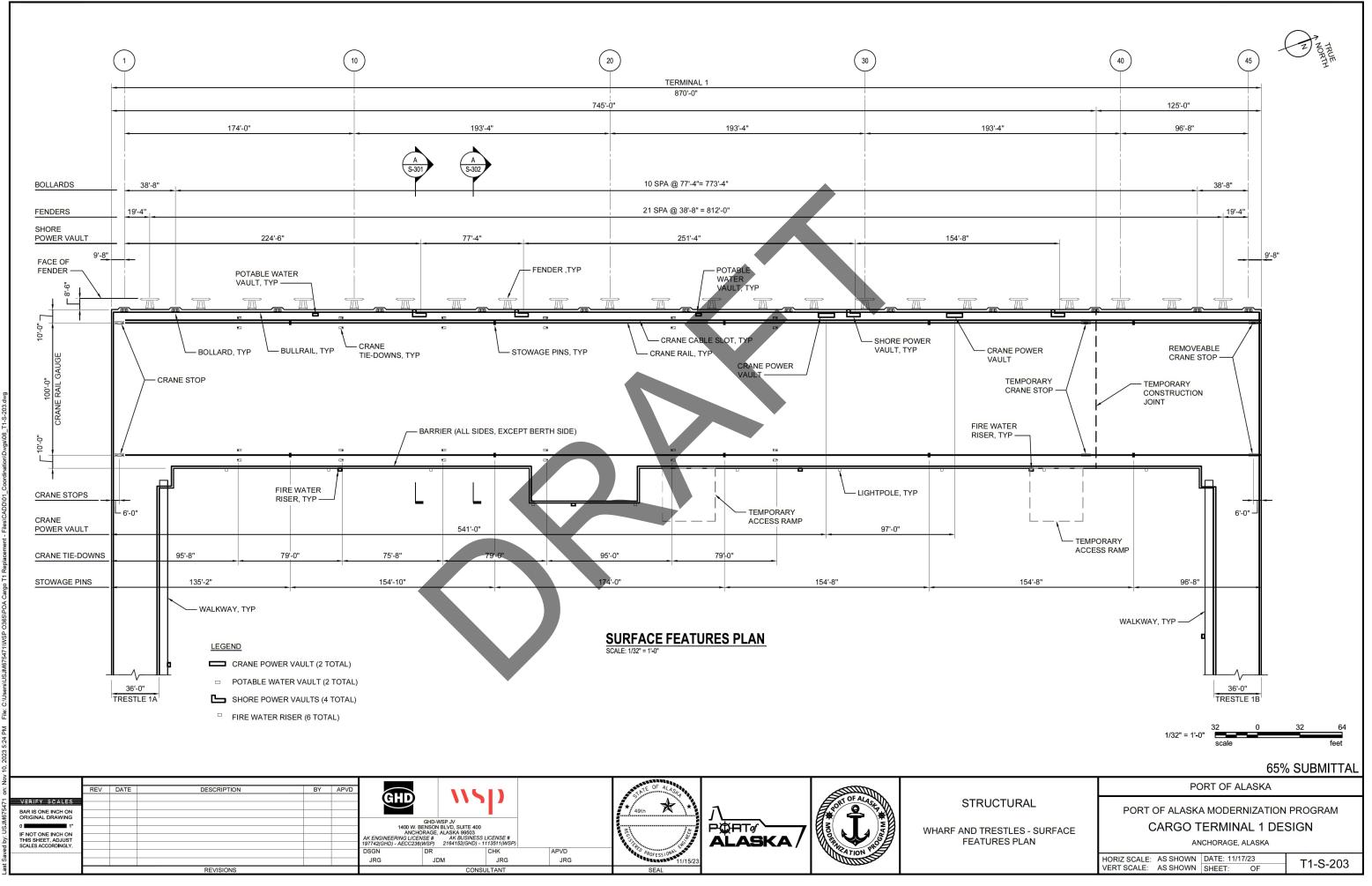
BOLTS AND ANCHORS INSTALLED IN CONCRETE

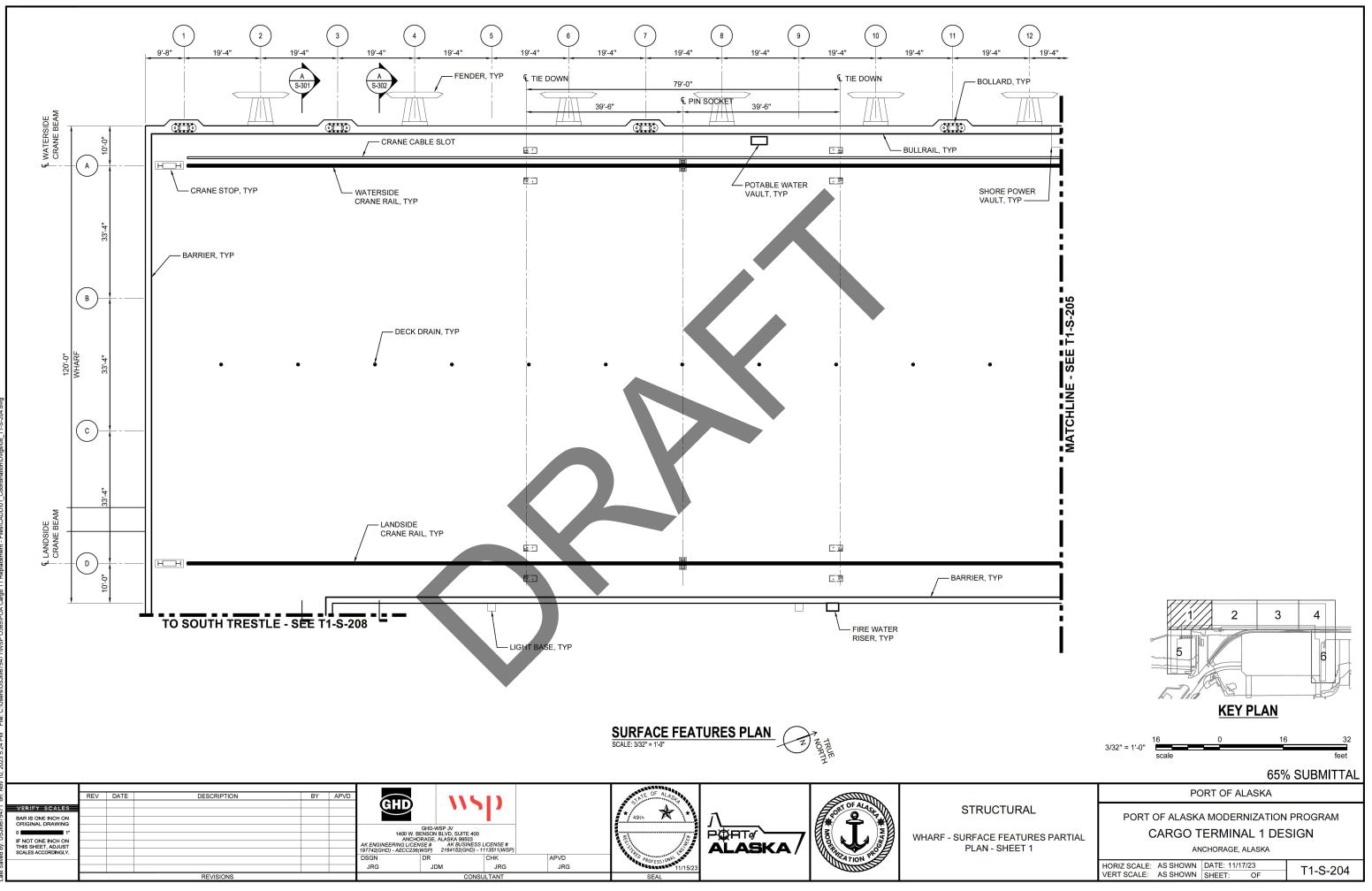
CLop - CONTAINER CRANE OPERATING LOAD (INCLUDES CLd) CLov - CONTAINER CRANE OVERLOAD (INCLUDES CLd) CLst - CONTAINER CRANE LOAD UNDER STOWED (WIND) CONDITIONS

65%	6 SUBMITTAL					
PORT OF ALASKA						
PORT OF ALASKA MODERNIZATION PROGRAM						
CARGO TERMINAL 1 DE	SIGN					
ANCHORAGE, ALASKA						
HORIZ SCALE:AS SHOWNDATE:11/17/23VERT SCALE:AS SHOWNSHEET:OF	T1-S-002					
	PORT OF ALASKA PORT OF ALASKA MODERNIZATION CARGO TERMINAL 1 DE ANCHORAGE, ALASKA HORIZ SCALE: AS SHOWN DATE: 11/17/23					

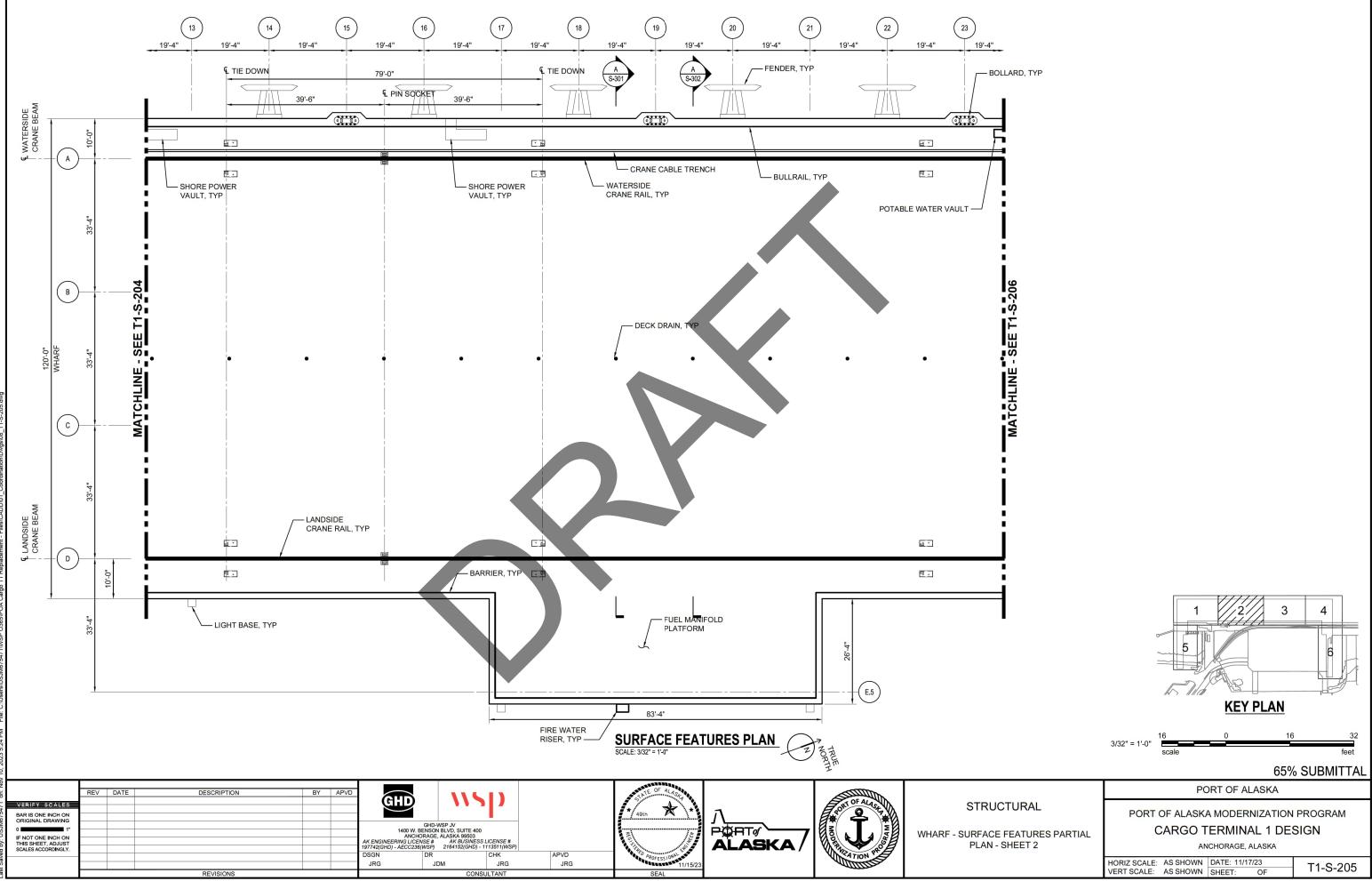


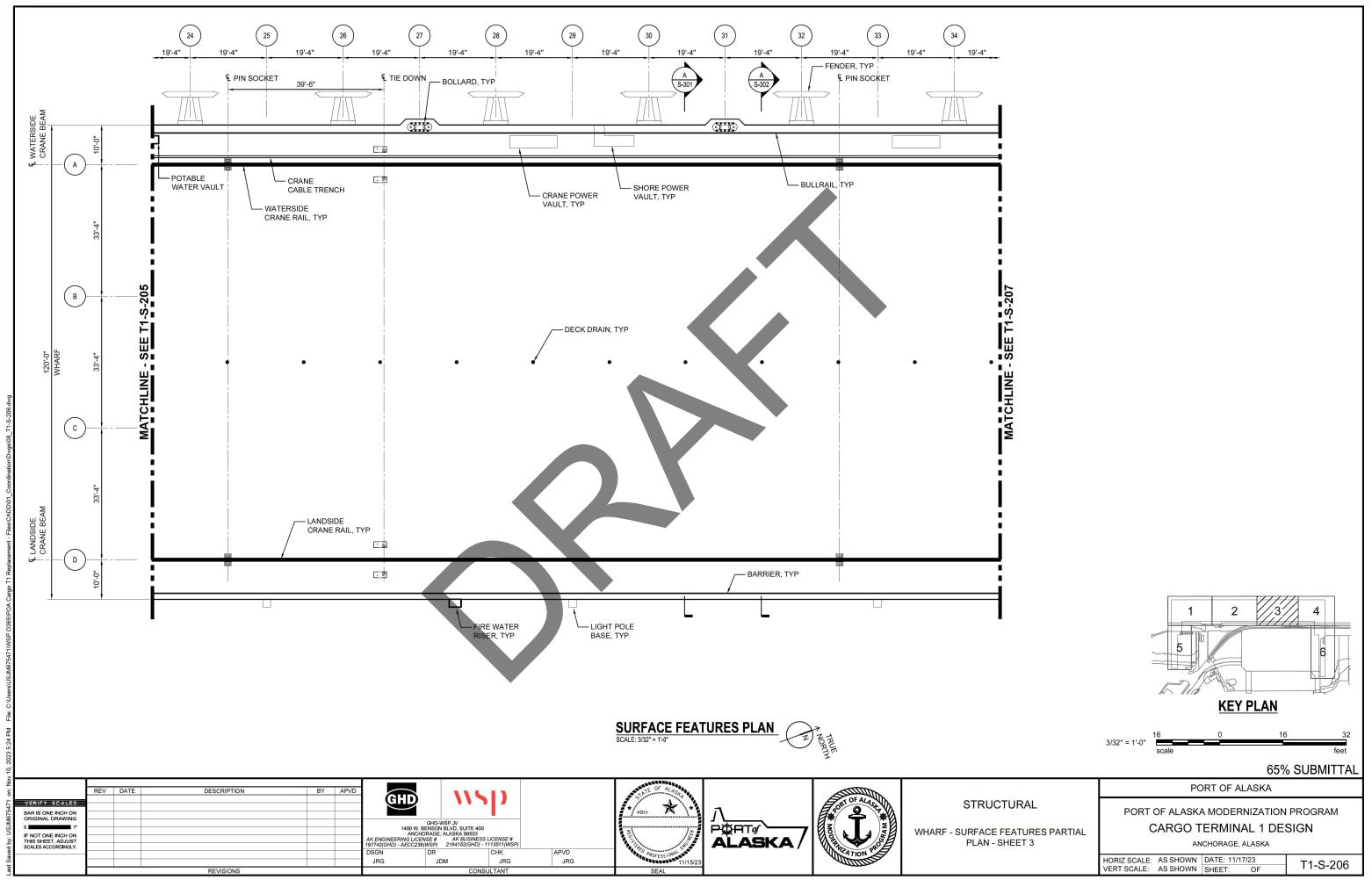


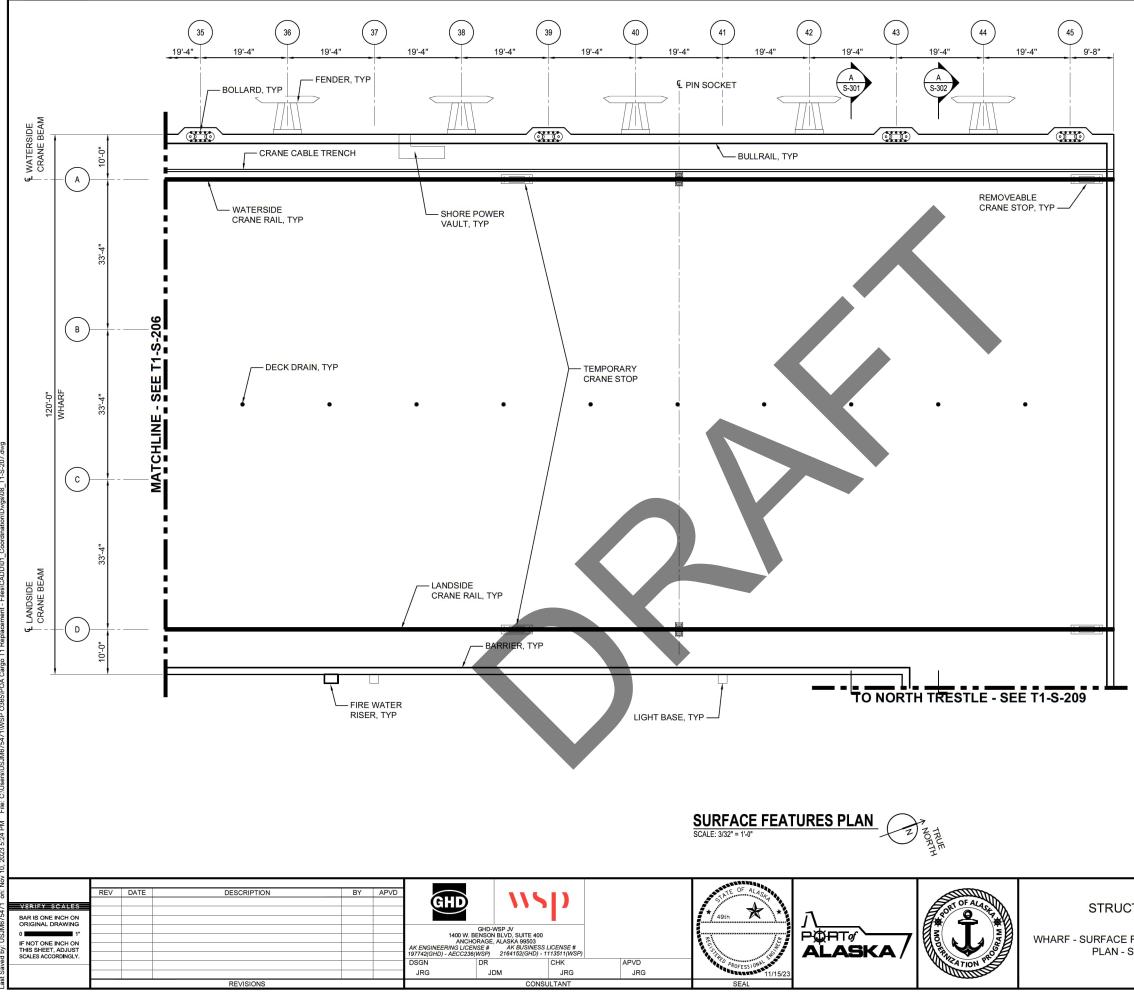




^{***}PRELIMINARY. NOT FOR USE IN DEVELOPING CONSTRUCTION BIDS***

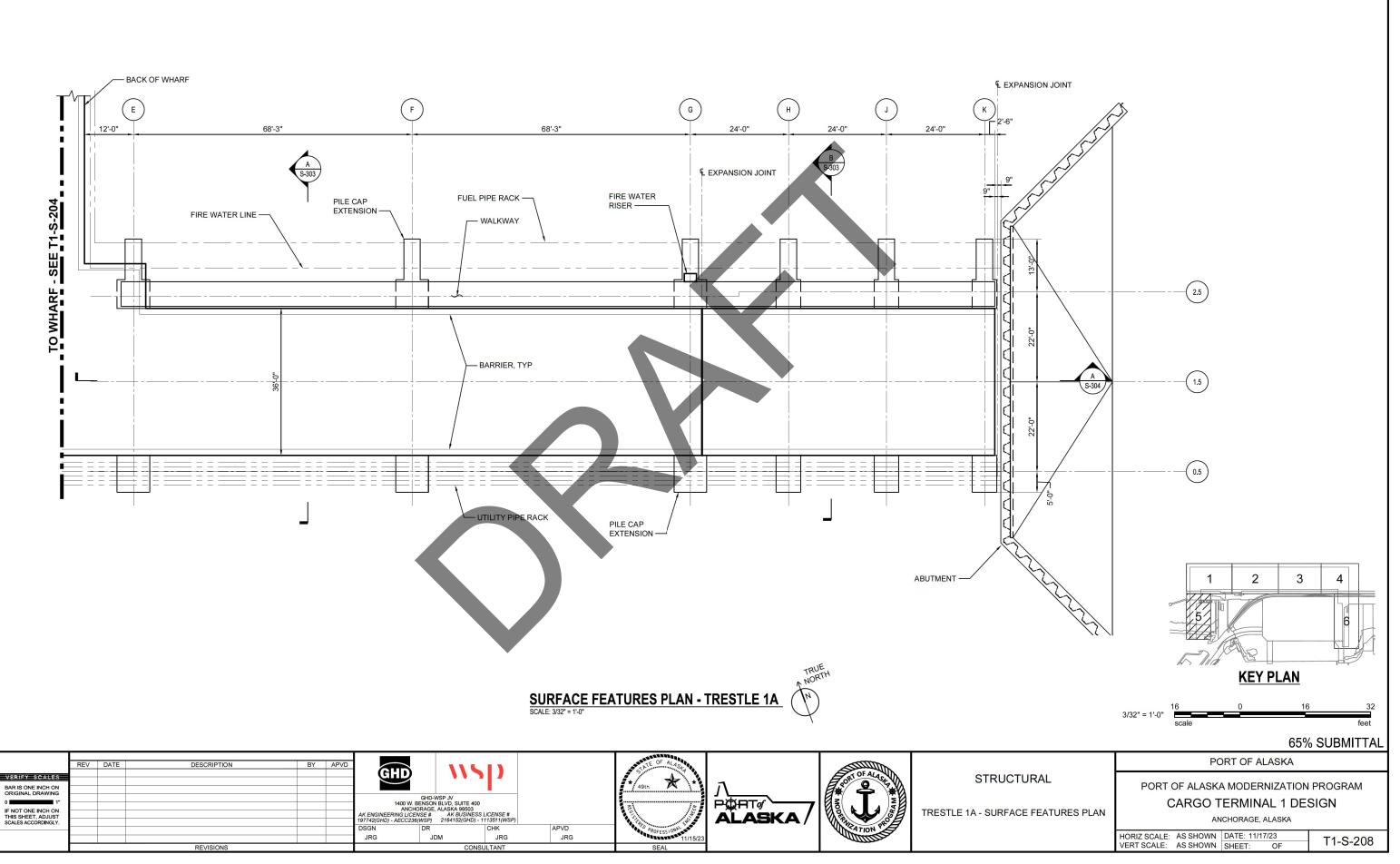




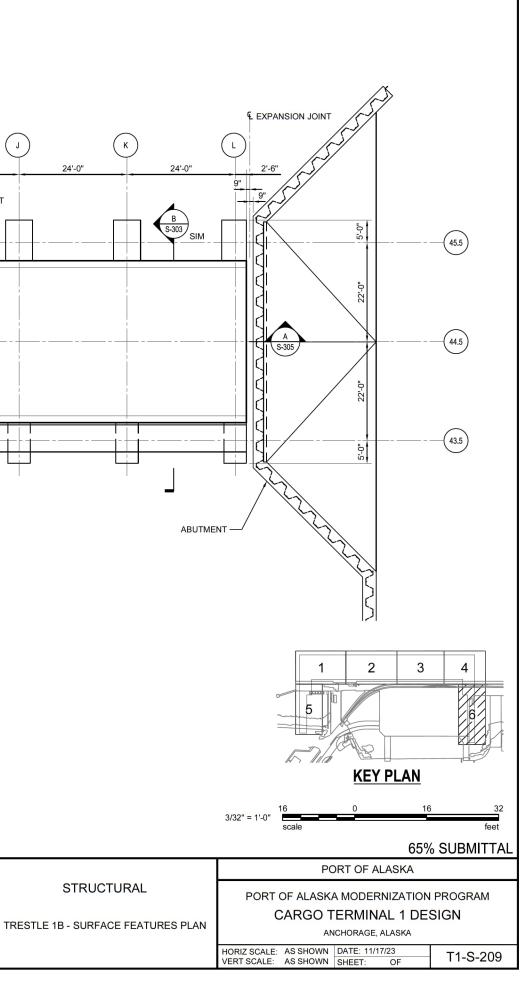


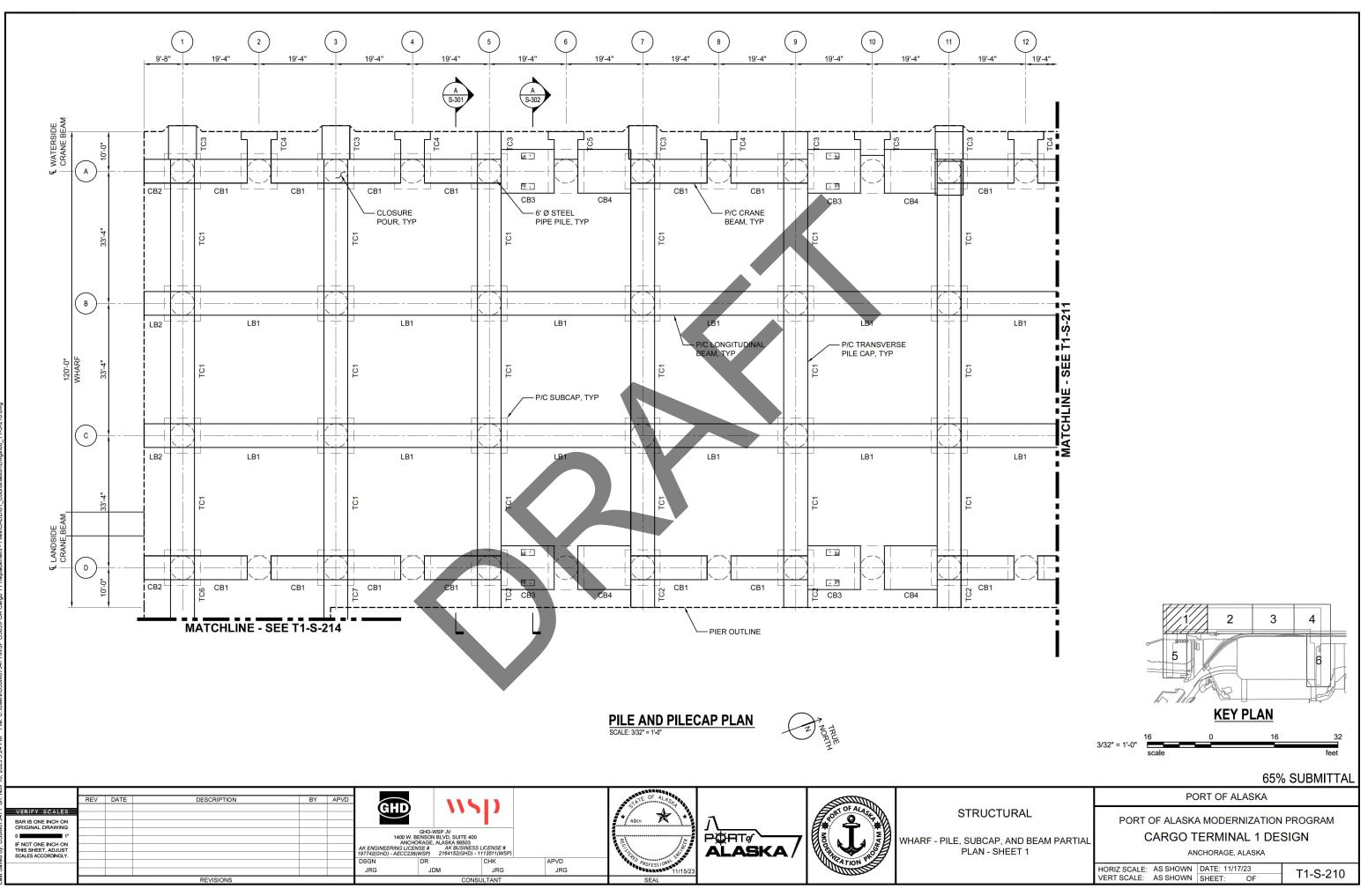
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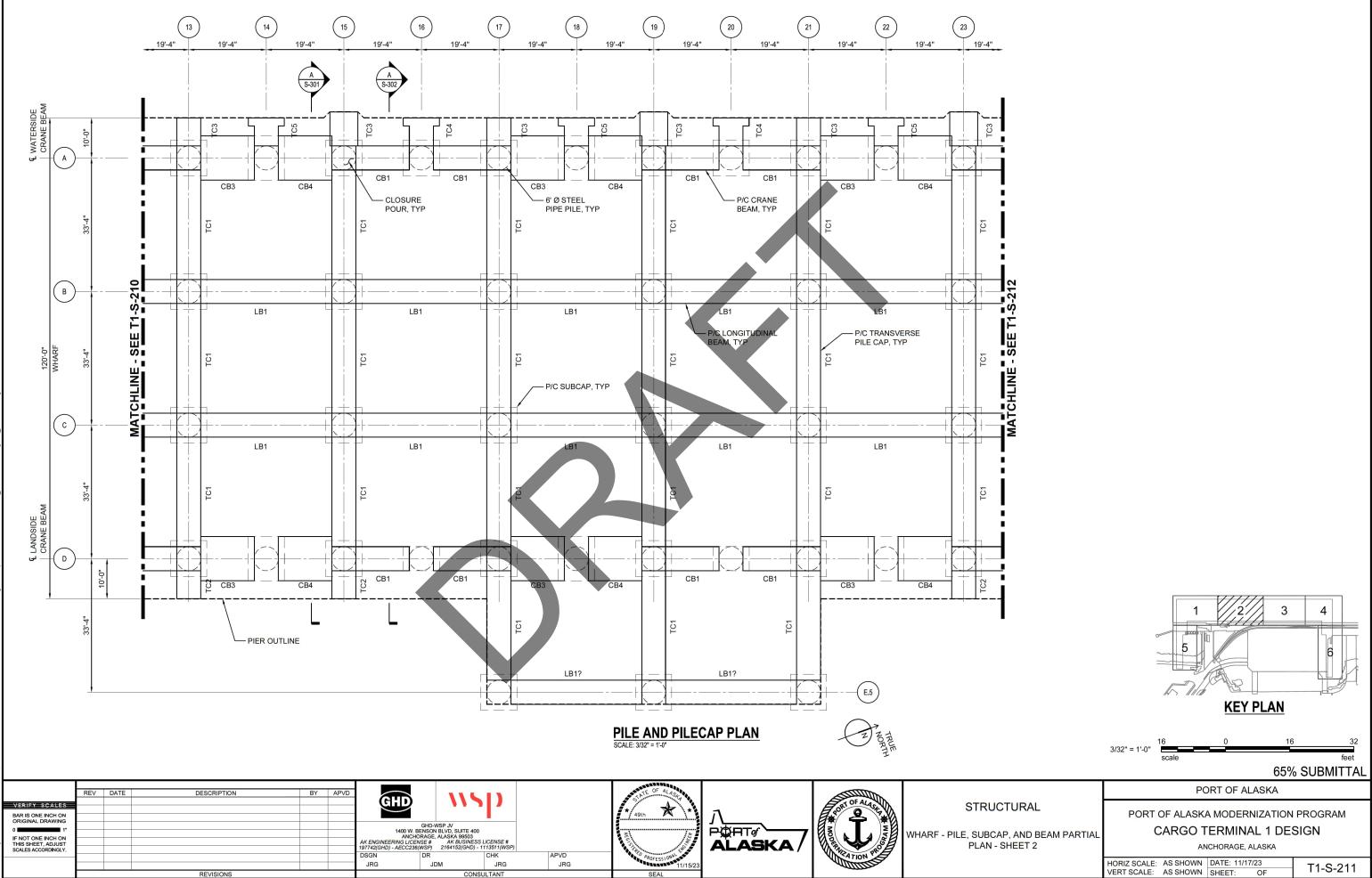
			2 KEY P	3 LAN	6
	3/32" = 1'-0"	16 scale	0	16	32 feet
				65%	6 SUBMITTAL
		F	PORT OF ALA	SKA	
CTURAL		PROGRAM			
FEATURES PARTIAL SHEET 4			TERMINAL		SIGN
	HORIZ SCALE VERT SCALE:			} DF	T1-S-207

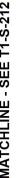


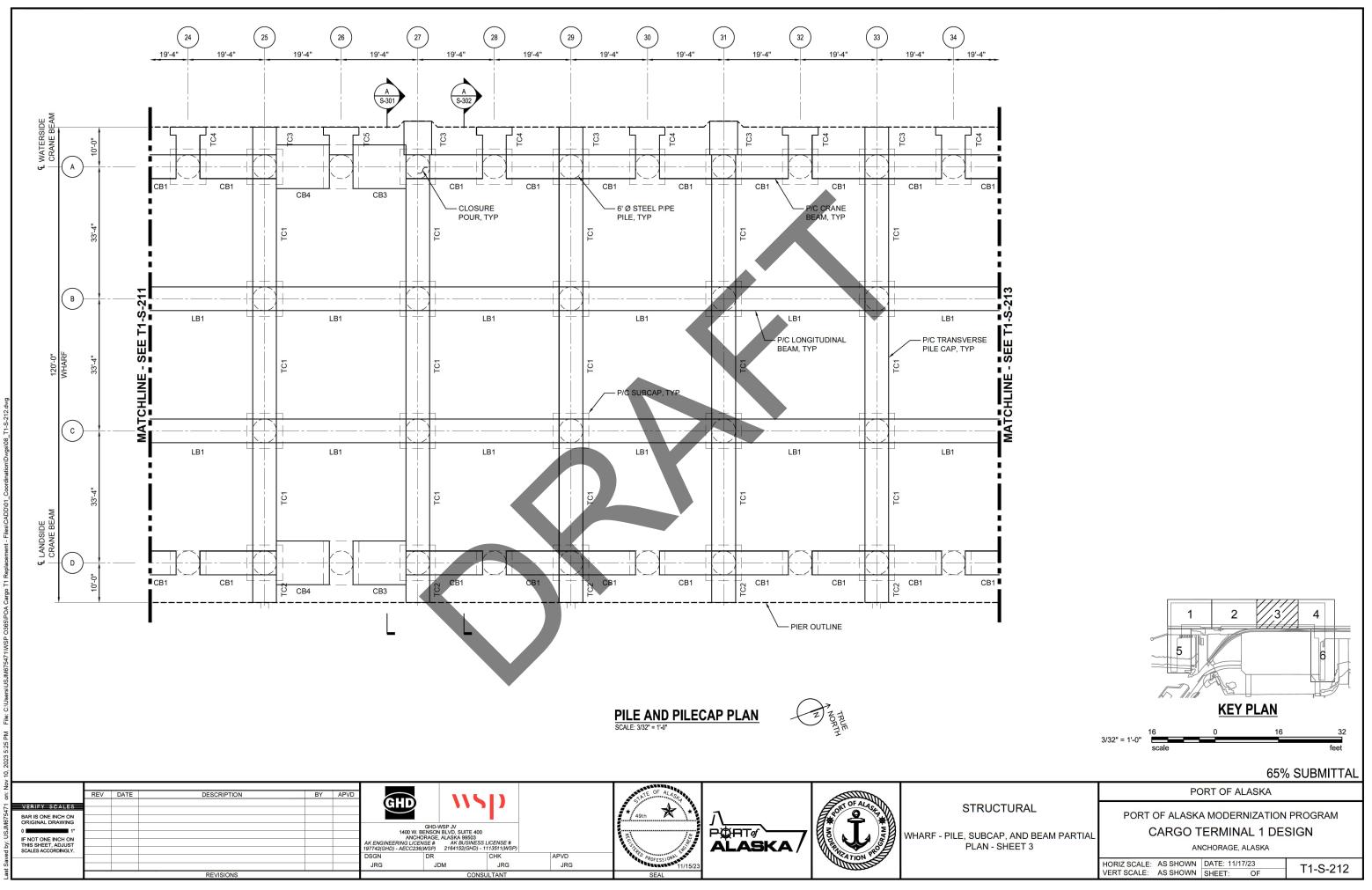
E G) F Ή) (J) 12'-0" 57'-6" 57'-6" 57'-6" 24'-0" 24'-0" PILE CAP EXTENSION, TYP -EXPANSION JOINT A S-303 SIM, OH - BARRIER, TYP TO WHARF - SEE T1-S-207 PILE CAP EXTENSION, TYP - FIRE WATE RISER - BACK OF WHARF I. SURFACE FEATURES PLAN - TRESTLE 1B REV DATE DESCRIPTION GHD BY APVD **NSD** VERIFY SCALES ★ -BAR IS ONE INCH ON ORIGINAL DRAWING GHD-WSP-JV GHD-WSP-JV A00 W, BENSON BLVD, SUITE 400 AK ENGINEERING LICENSE # 197742(GHD) - AECC236(WSP) 2164152(GHD) - 1113511(WSP) DSGN DR ALASKA IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY. APVD JDM JRG JRG JRG /15/ CONSULTANT REVISION

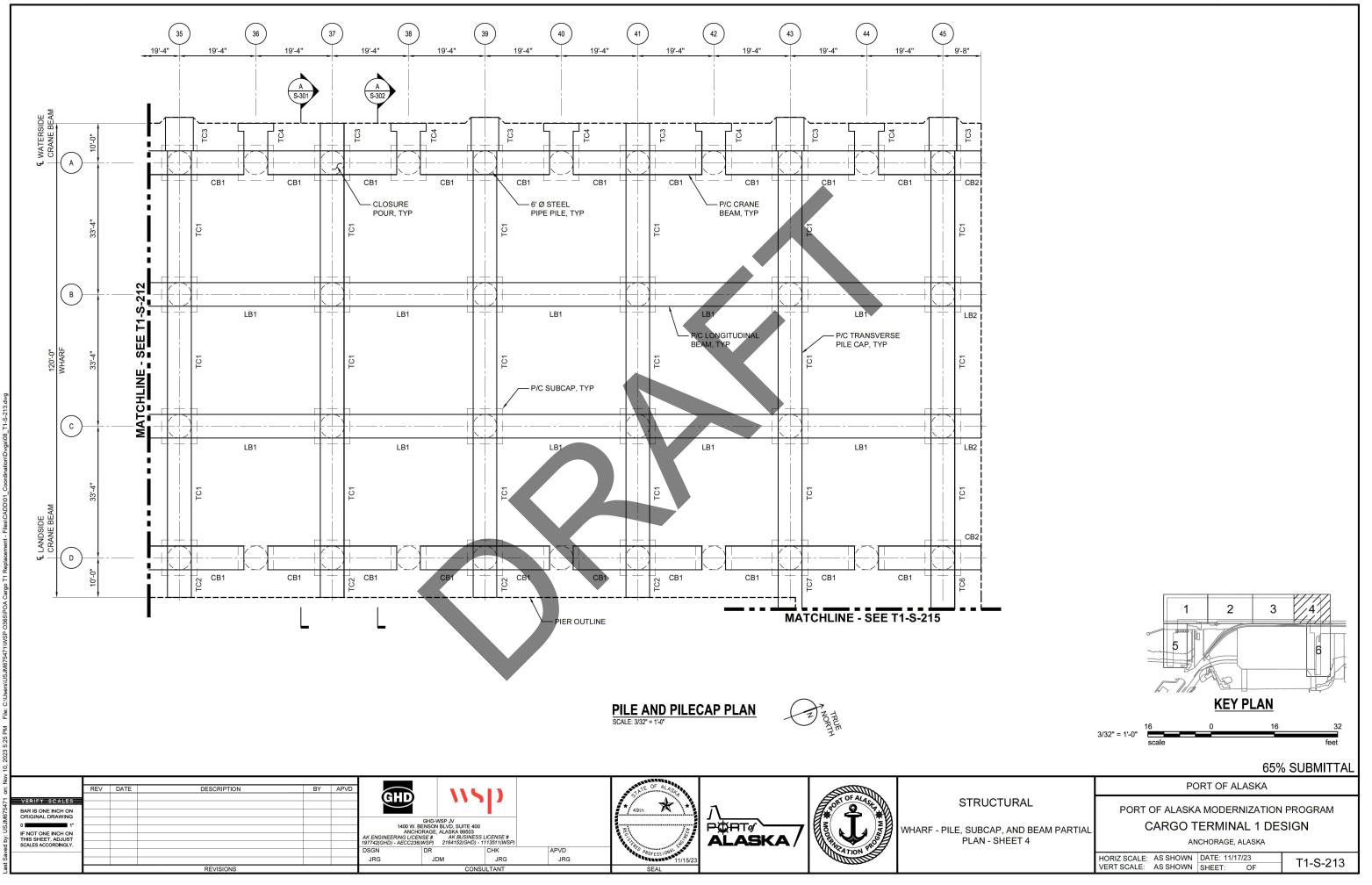


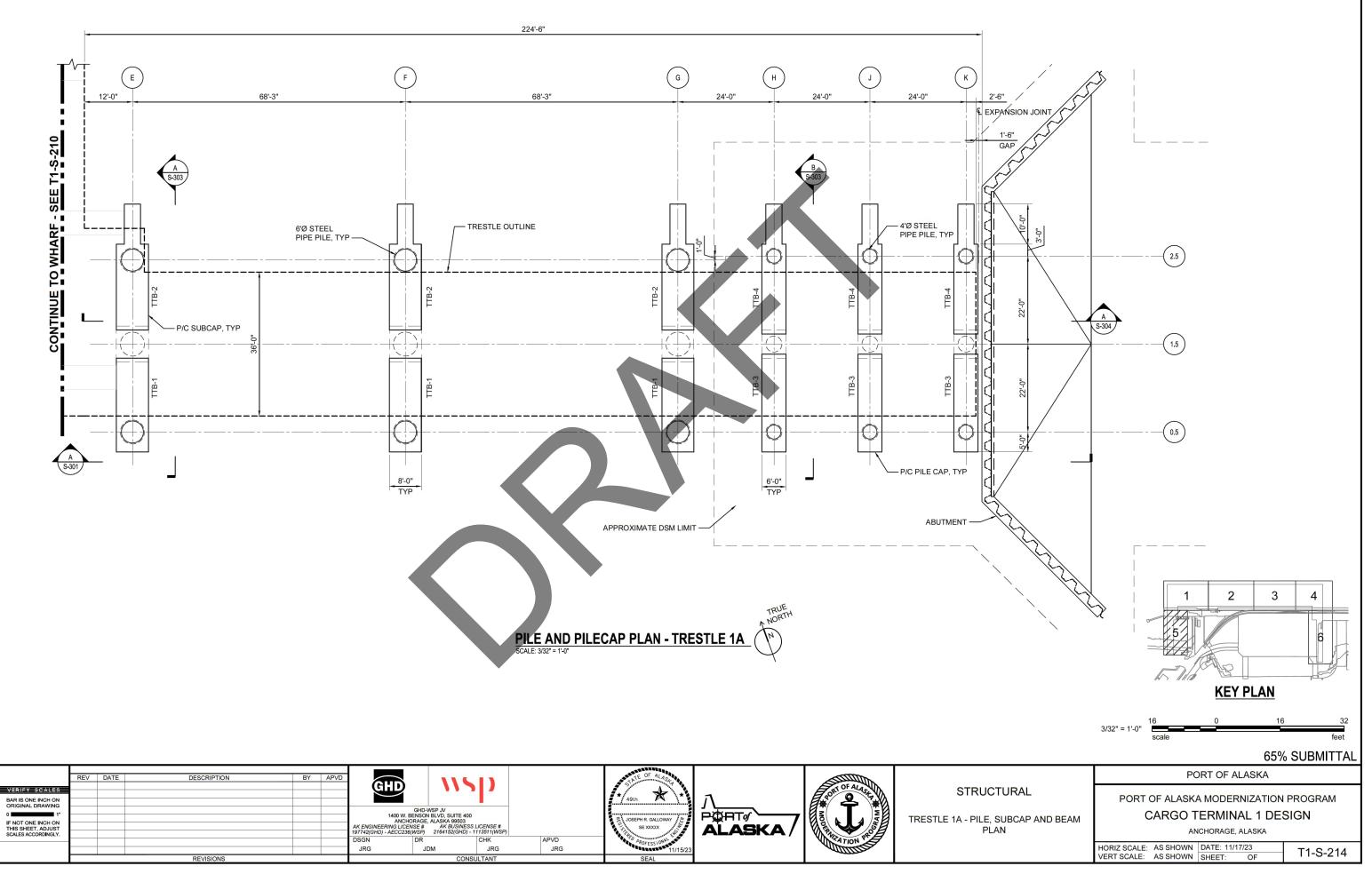


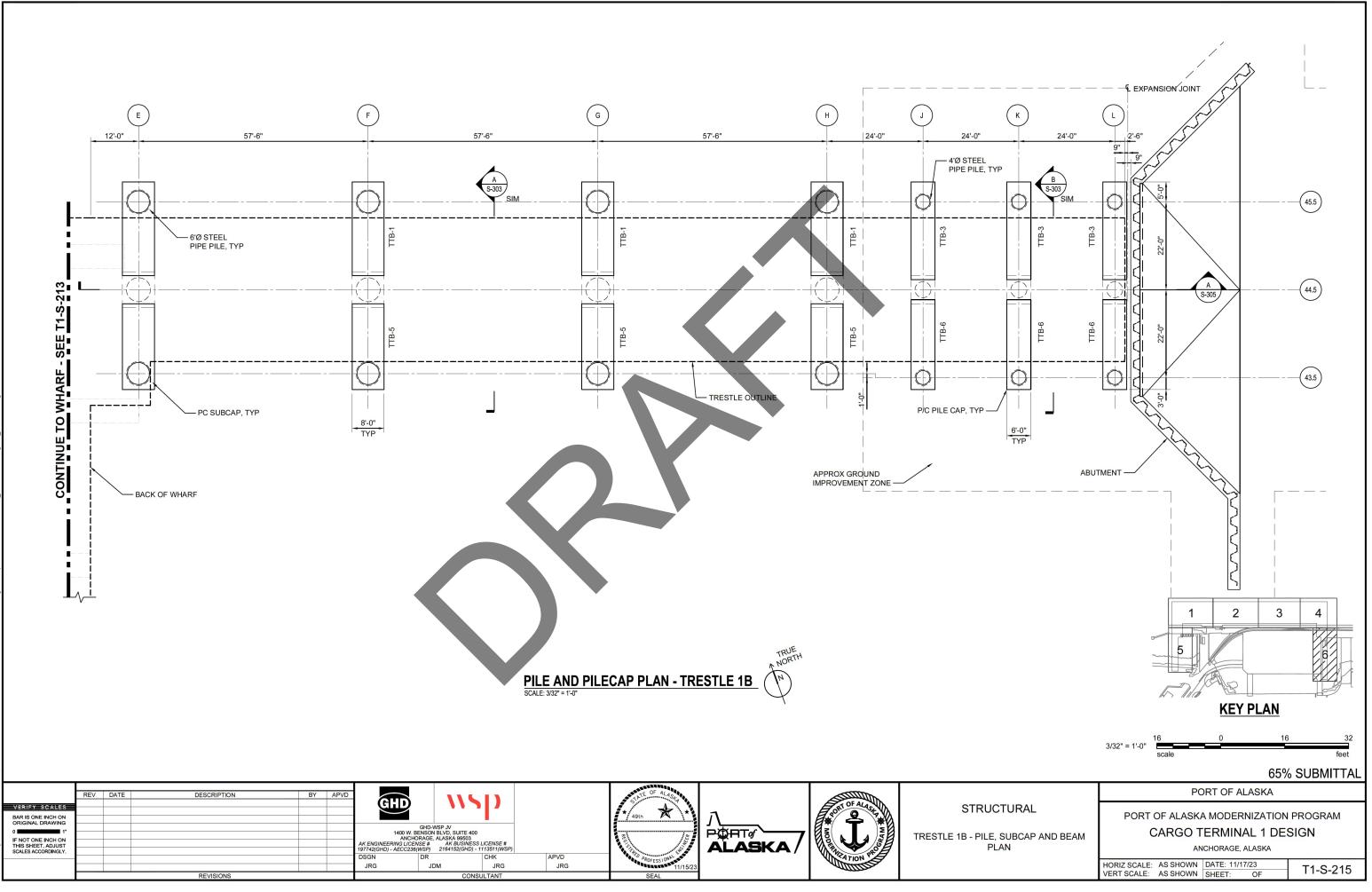


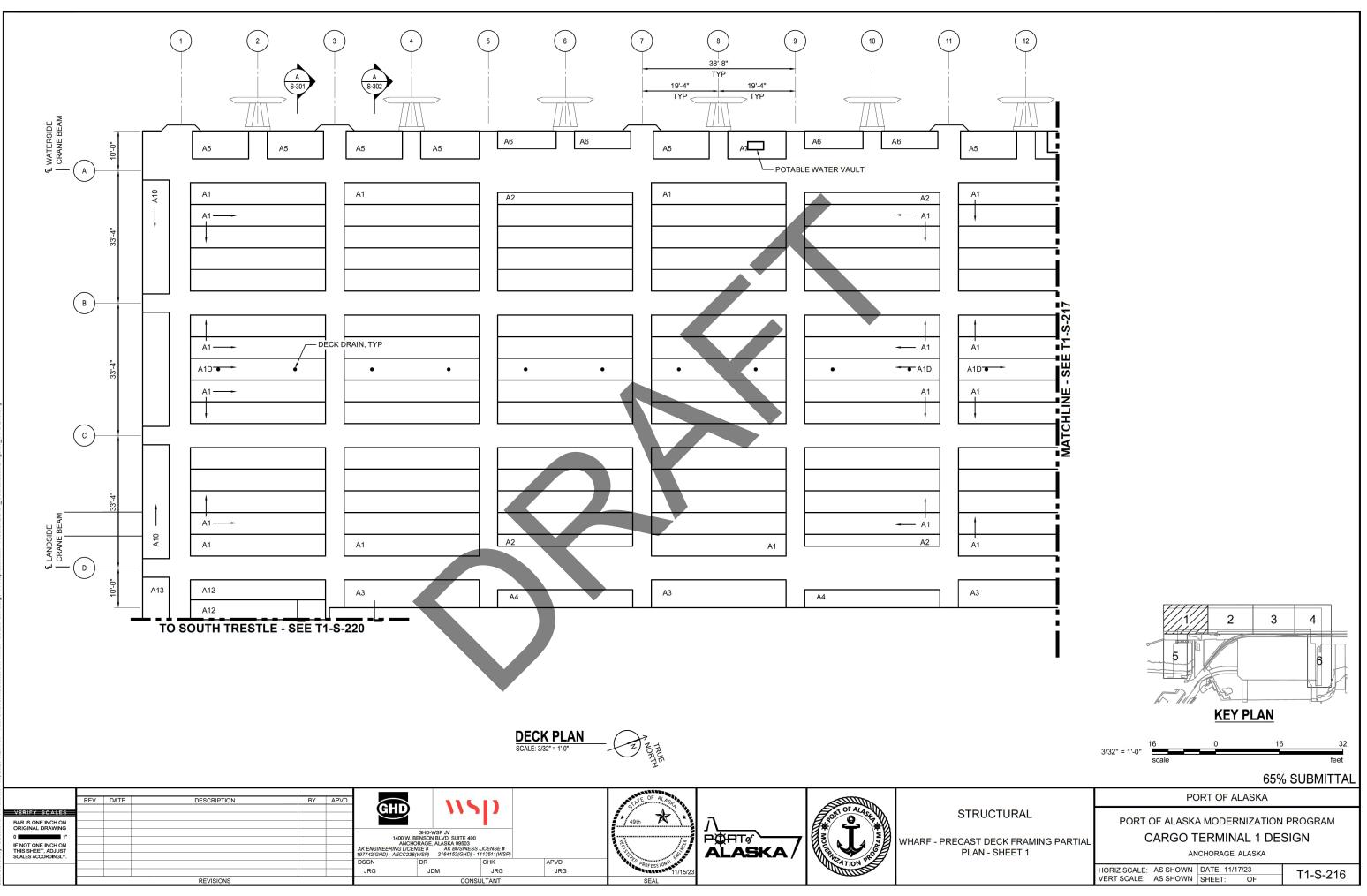


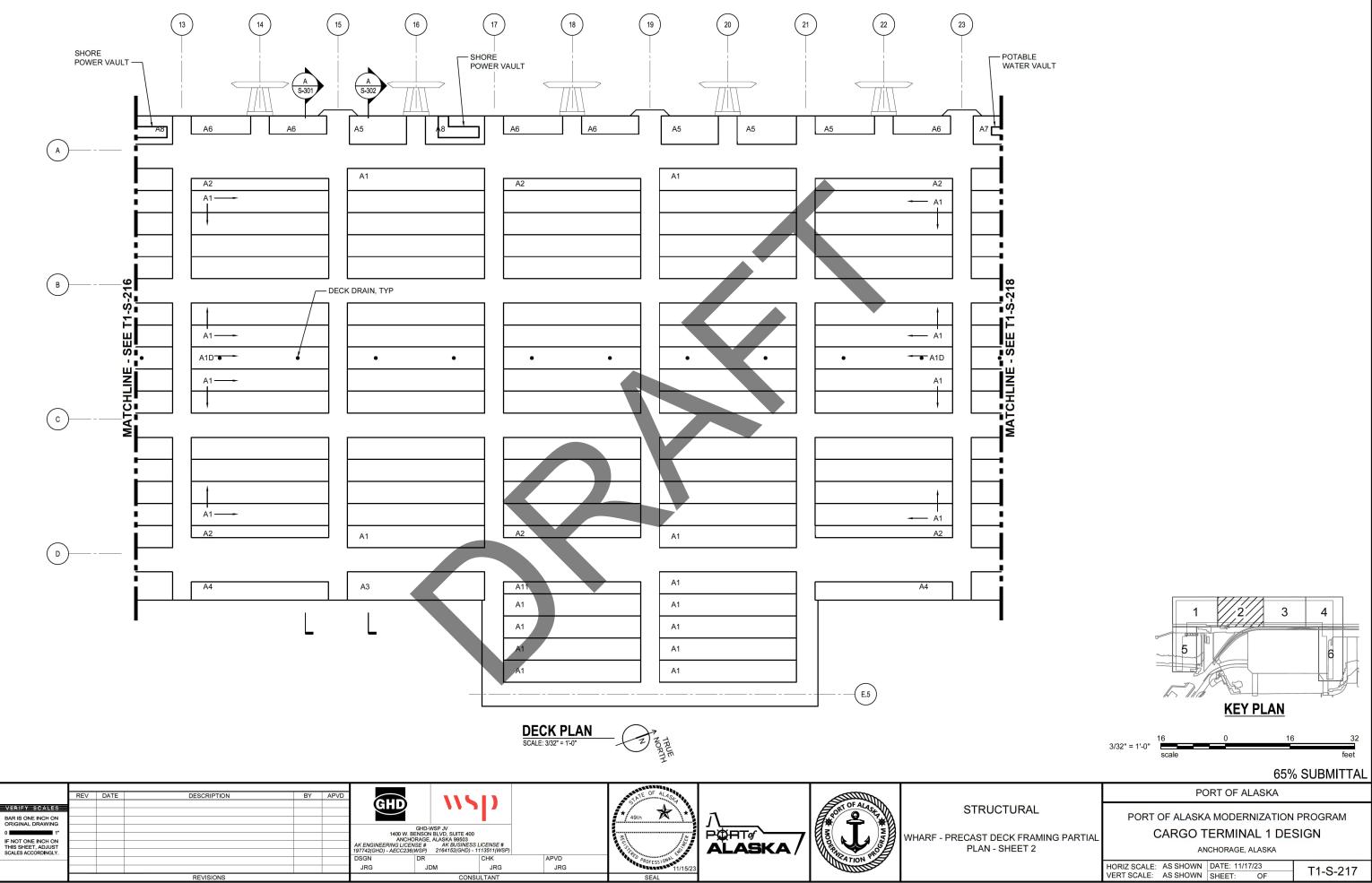




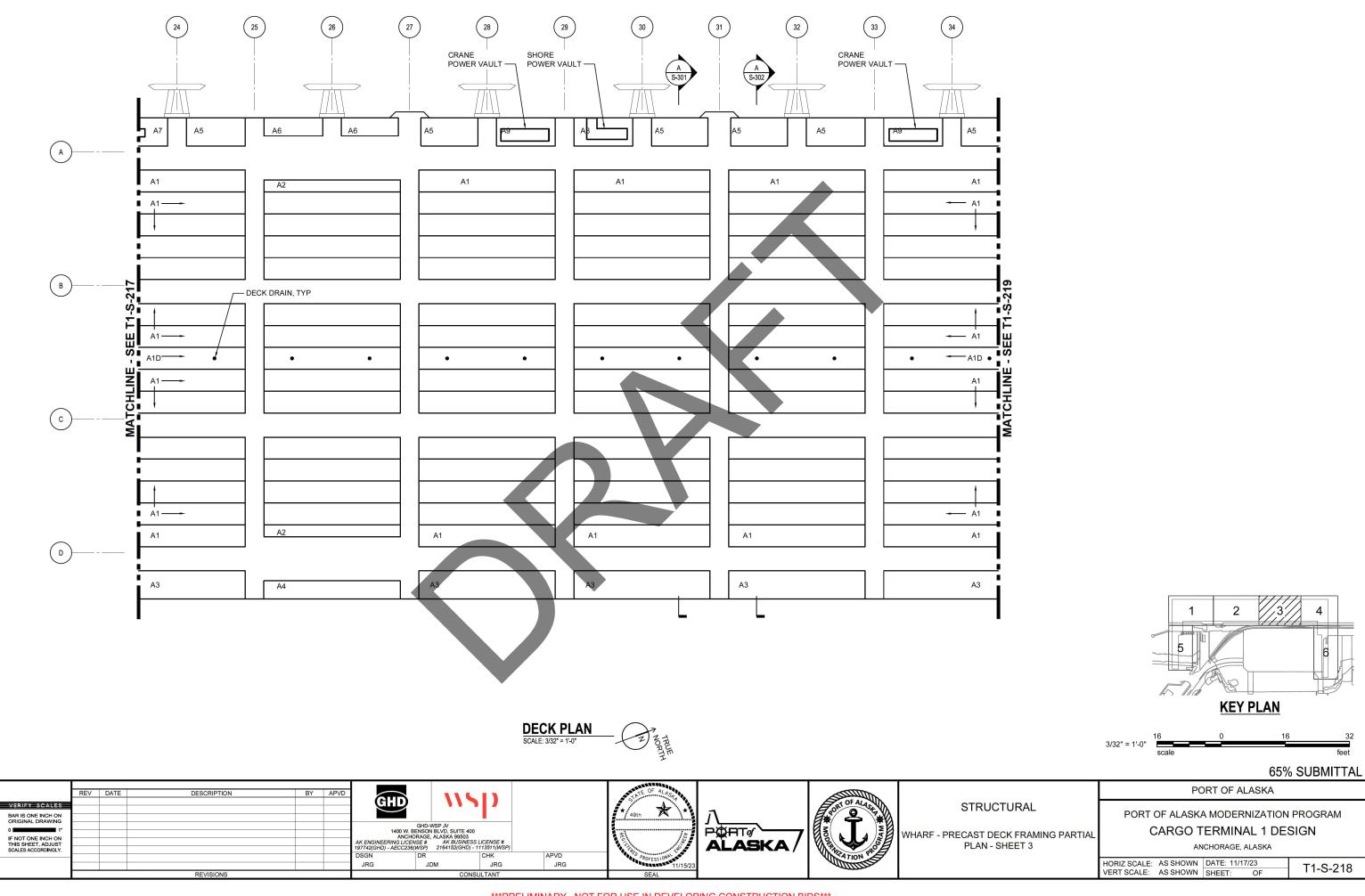


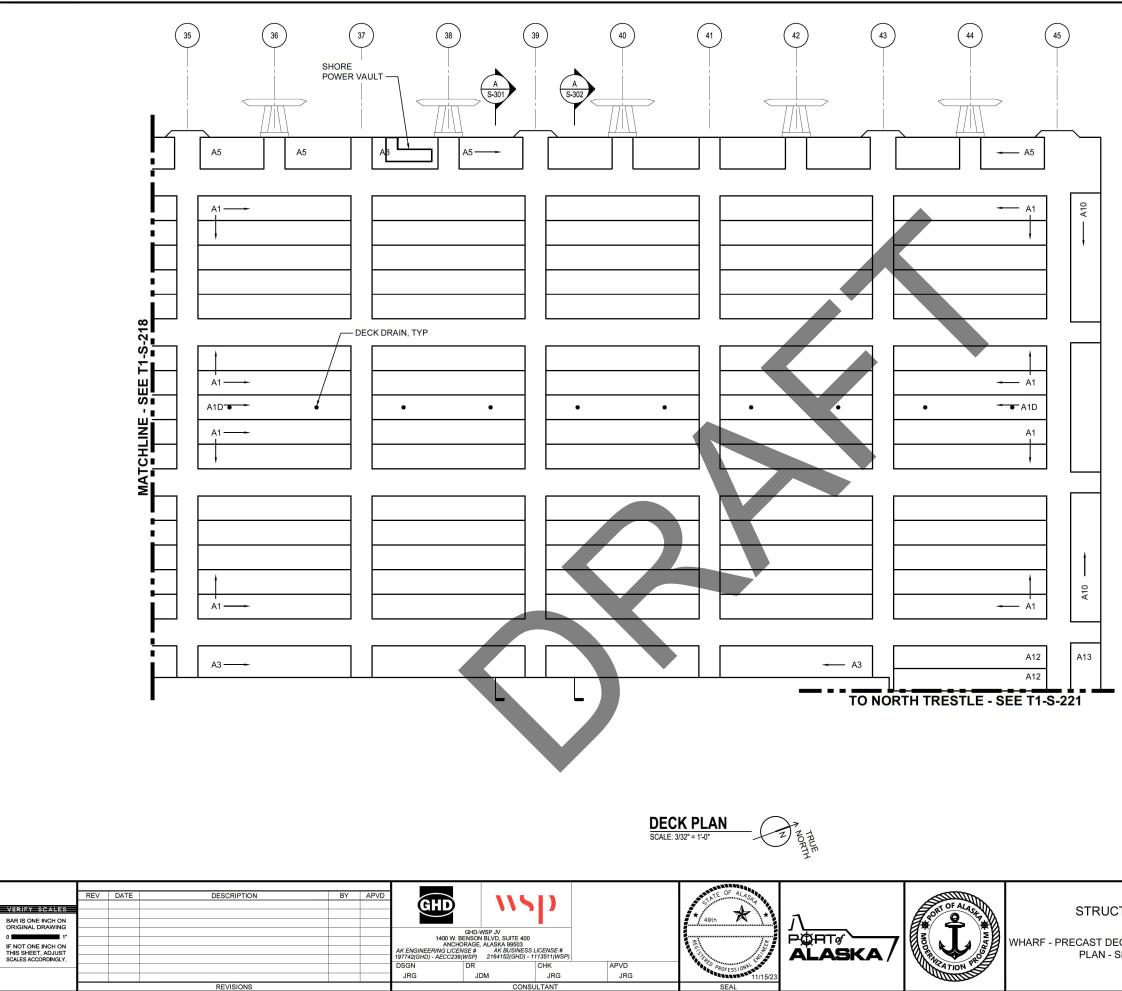




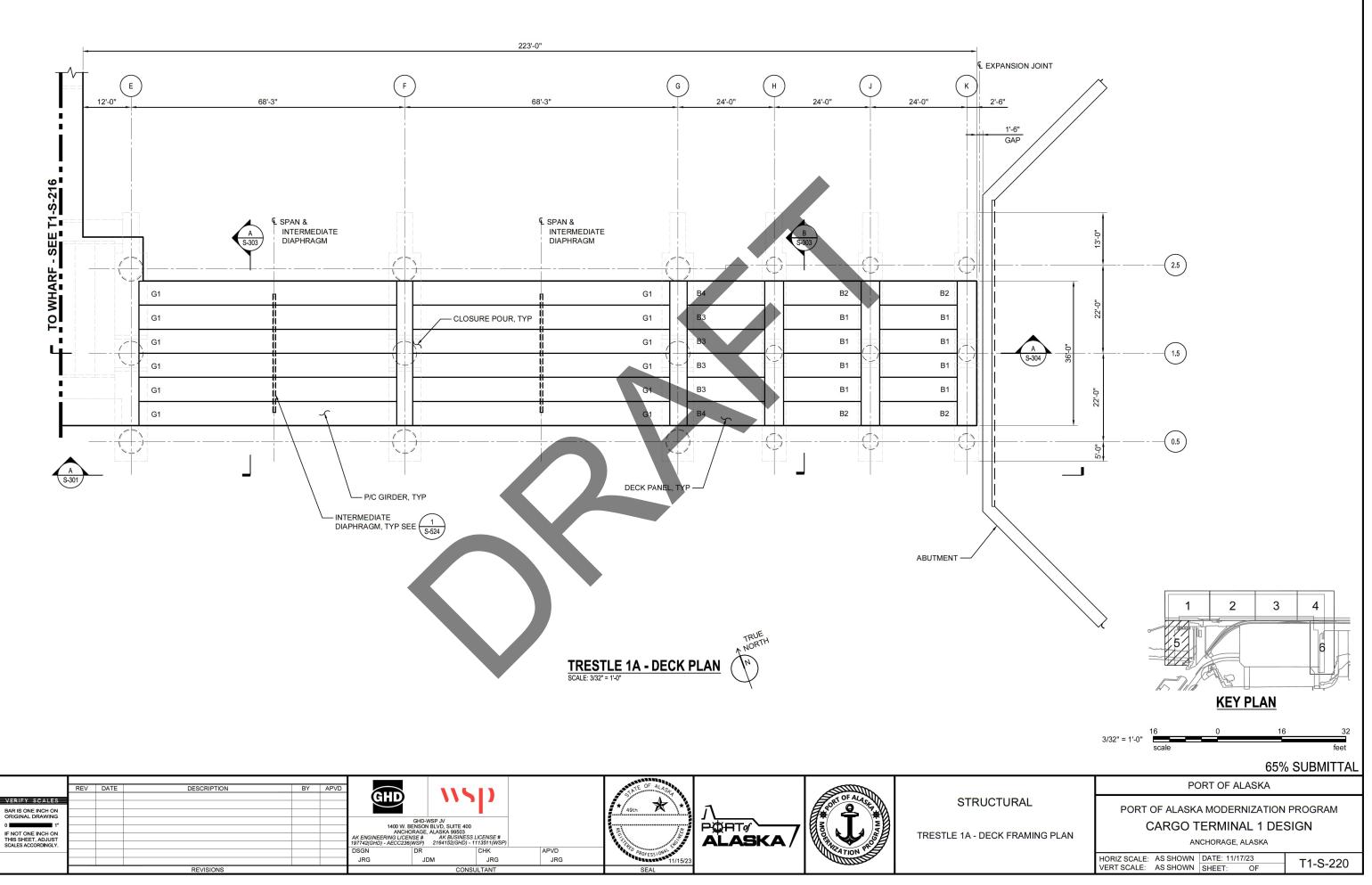


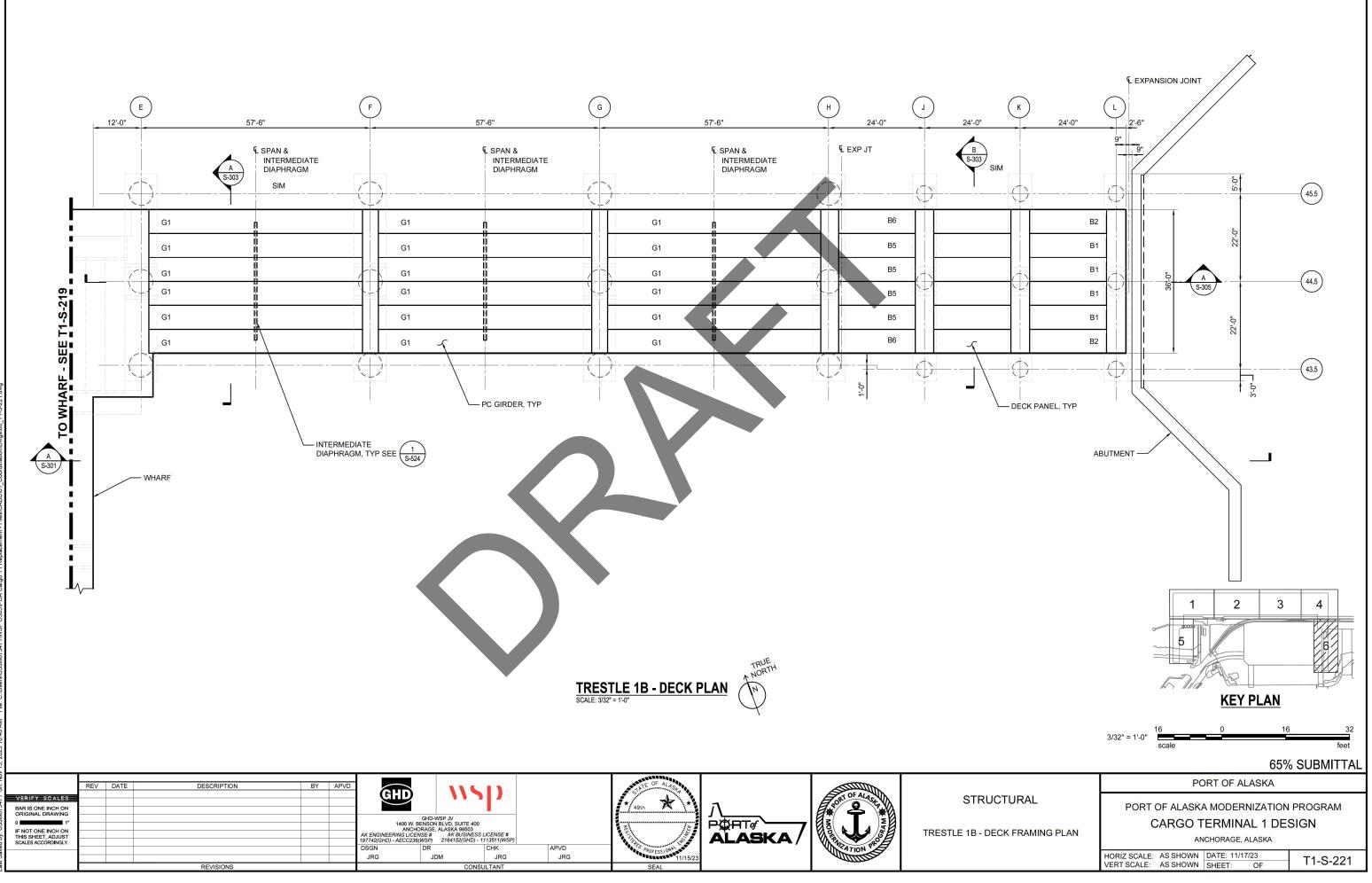
^{***}PRELIMINARY. NOT FOR USE IN DEVELOPING CONSTRUCTION BIDS***

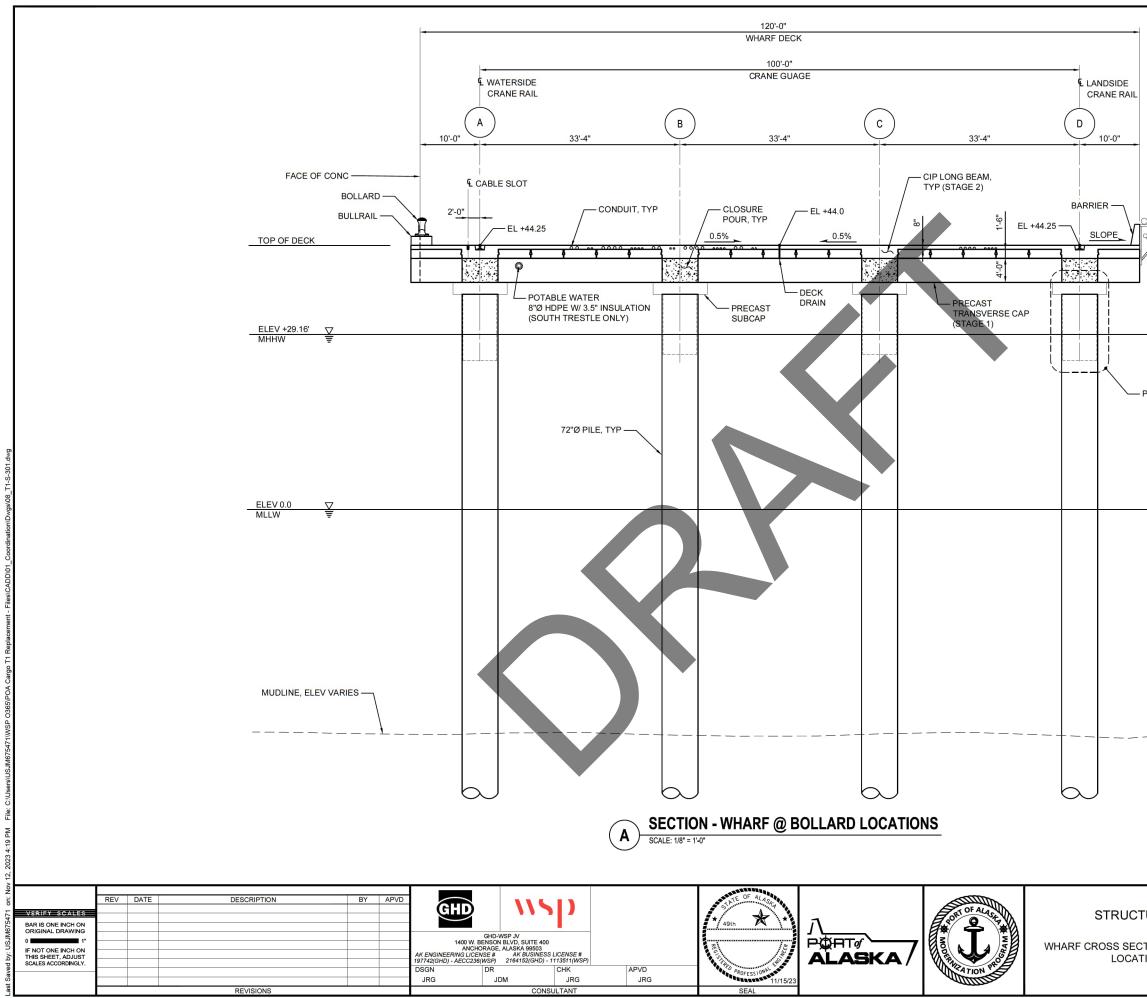




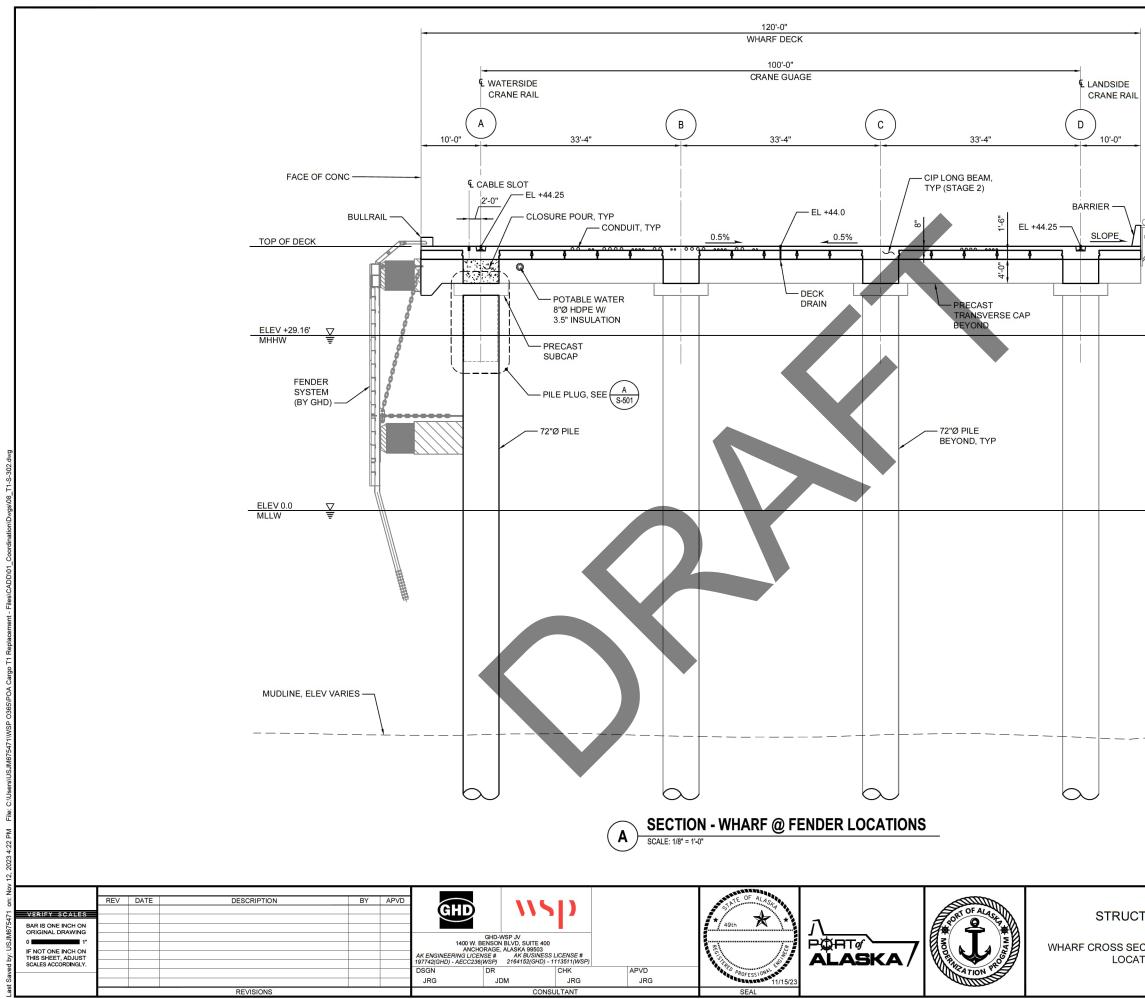
			2 <u> </u>	3 LAN	6					
	3/32" = 1'-0"	16 scale	0	16	5 32 feet					
				65%	6 SUBMITTAL					
		F	PORT OF ALA	SKA						
CTURAL ECK FRAMING PARTIAL SHEET 4	PORT OF ALASKA MODERNIZATION PROGRAM CARGO TERMINAL 1 DESIGN ANCHORAGE, ALASKA									
	HORIZ SCALE VERT SCALE:			3 DF	T1-S-219					





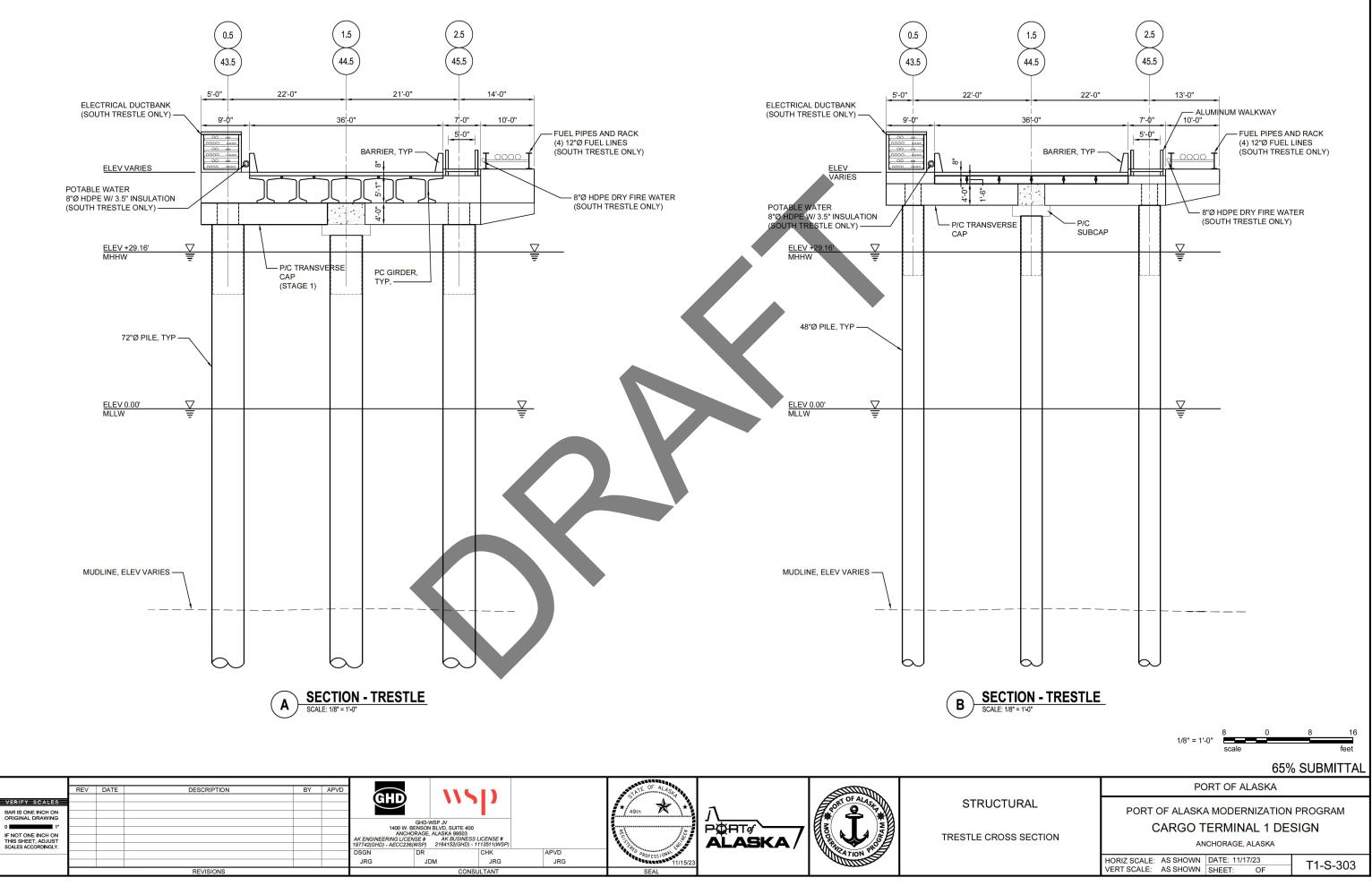


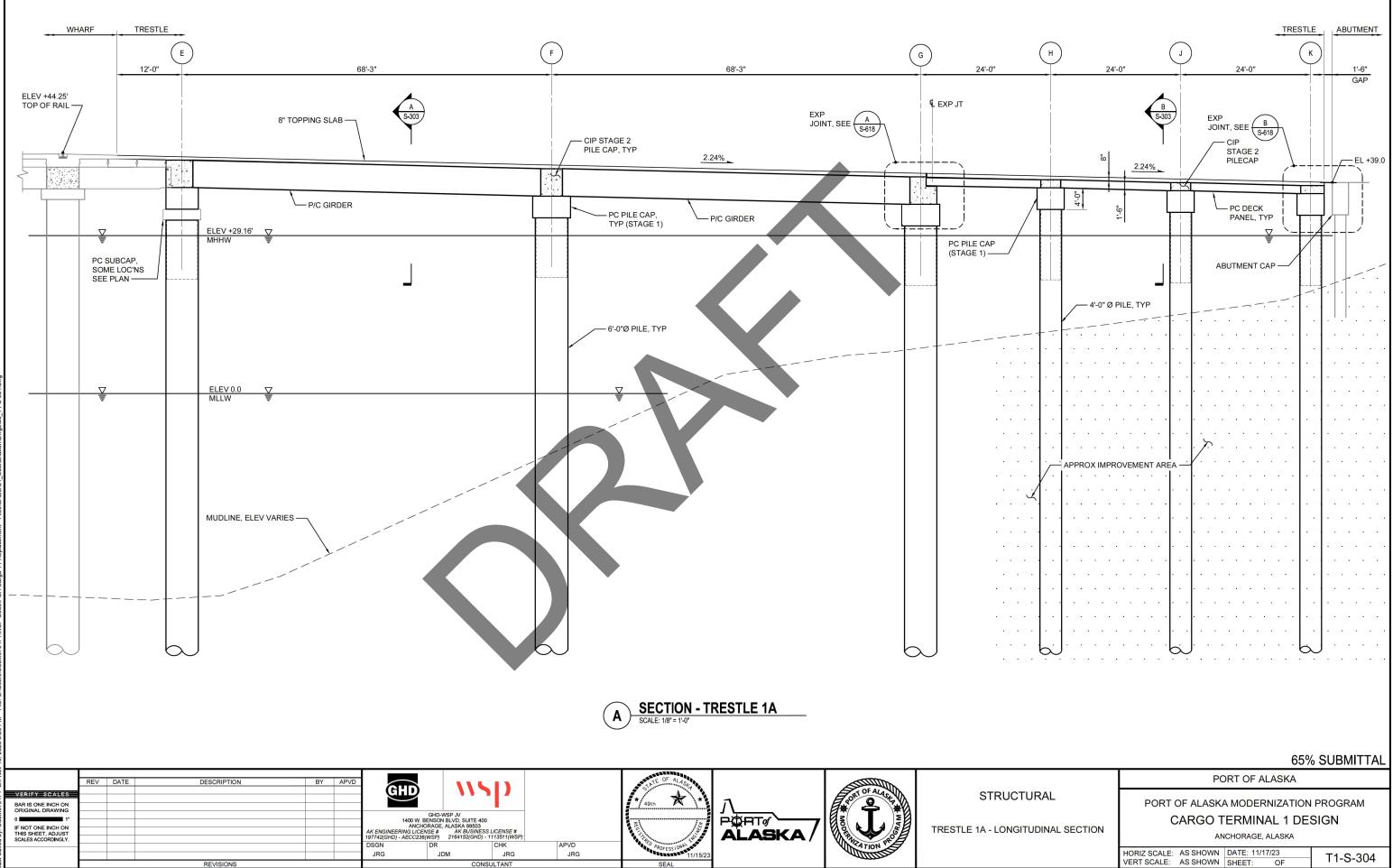
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8"Ø HDPE DRY FIF	REWATER					
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- PILE PLUG, SEE						
<u>₹</u>						
-						
	-					
		1/8" = 1'-	0" Scale	0 	8 SUBMI	16 feet
		PO	RT OF AL			
TURAL	PORT O	F ALASKA	MODERN	IZATION	PROGRA	м
CTION @ BOLLARD	CA		ERMINA chorage, al		SIGN	
	HORIZ SCALE: A	AS SHOWN	DATE: 11/17/2 SHEET:	23 OF	T1-S-	301



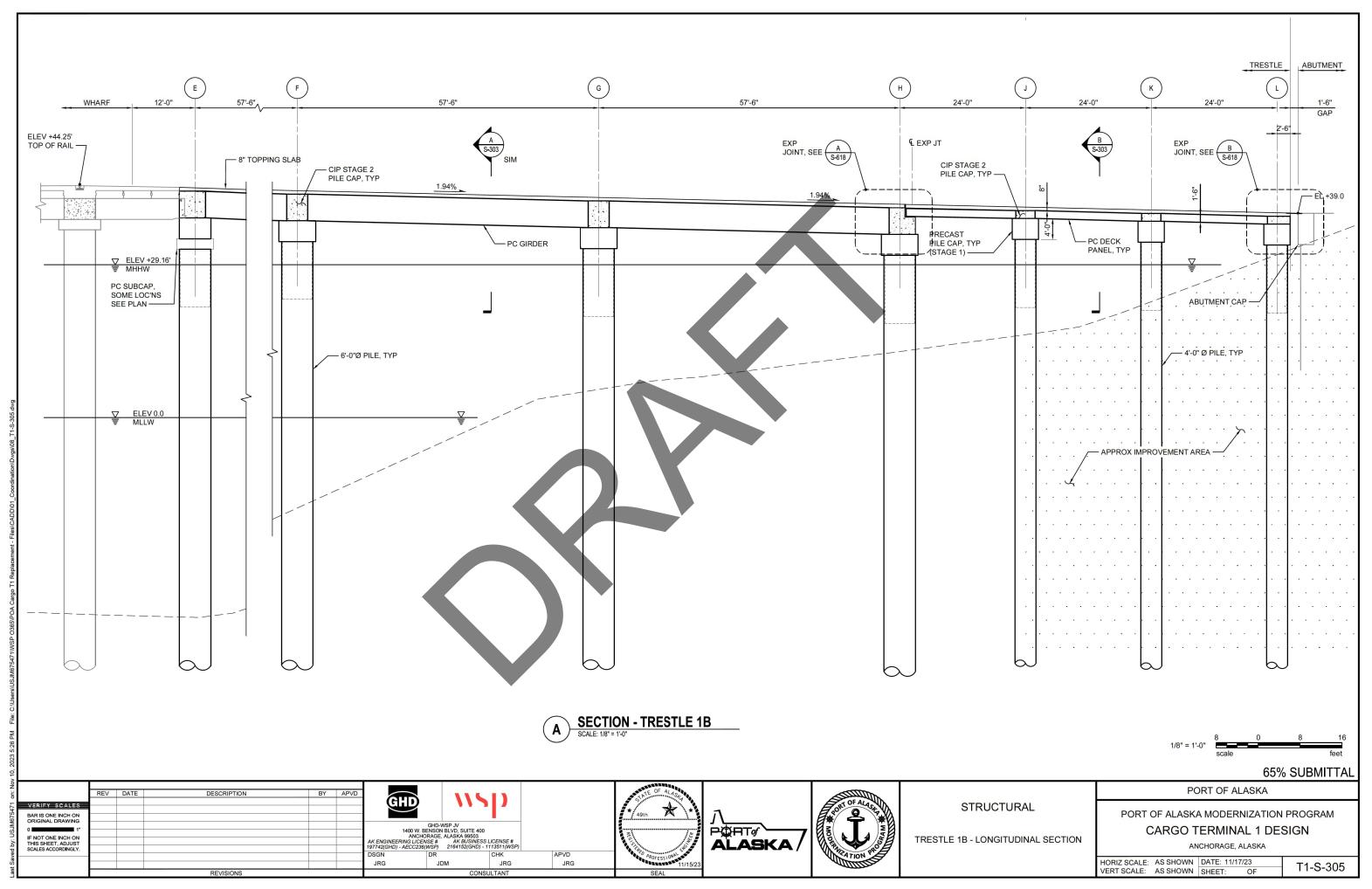
8"Ø HDPE DRY FIF	RE WATER	
<u>⊽</u>		
<u></u>		
	1/8" = 1'-0" 8 0 8 16 scale feet 65% SUBMITTAL	
CTURAL ECTION @ FENDER	PORT OF ALASKA PORT OF ALASKA MODERNIZATION PROGRAM CARGO TERMINAL 1 DESIGN ANCHORAGE, ALASKA	
	HORIZ SCALE: AS SHOWN DATE: 11/17/23 VERT SCALE: AS SHOWN SHEET: OF T1-S-302]

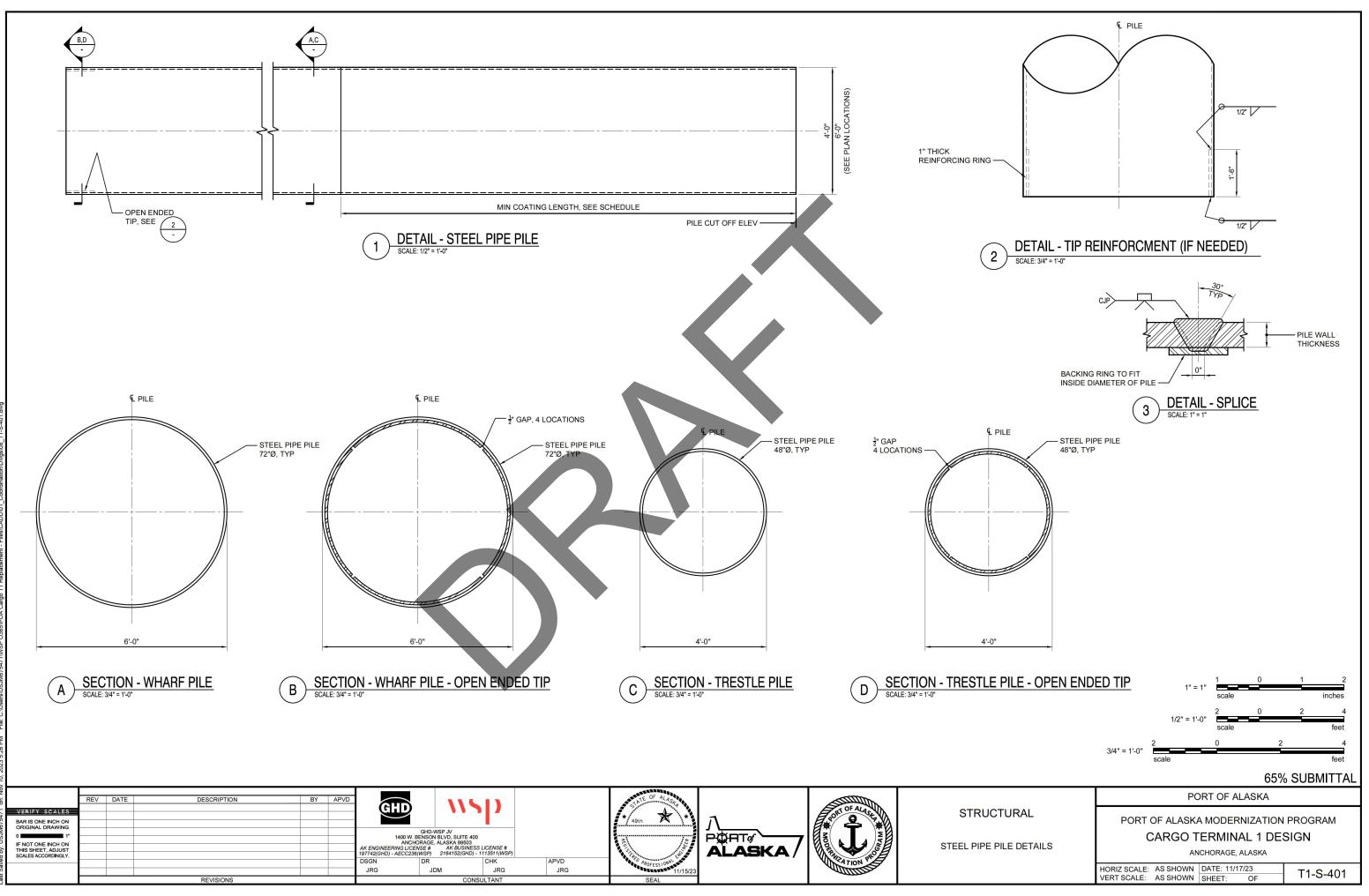
– FUEL PIPES AND RACK (4) 12"Ø FUEL LINES





007								
PORT OF ALASKA								
PORT OF ALASKA MODERNIZATION PROGRAM								
CARGO TERMINAL 1 DESIGN								
ANCHORAGE, ALASKA								
HORIZ SCALE: AS SHOWN DATE: 11/17/23 VERT SCALE: AS SHOWN SHEET: OF	T1-S-304							
	PORT OF ALASKA PORT OF ALASKA MODERNIZATION CARGO TERMINAL 1 DE ANCHORAGE, ALASKA HORIZ SCALE: AS SHOWN DATE: 11/17/23							





							WHARF																WHARF								
	PILE	APPROXIMATE	PILE CUT-OFF	STEEL PIPE	DRIVING	OVERDRIV		SEGMENT	LOWER	SEGMENT	ORDER PILE	MIN COATING	COATING	ANODE	ANODE		PILE	APPROXIMATE	PILE CUT-OFF	STEEL PIPE	DRIVING	OVERDRIV	UPPER SE	GMENT	LOWER	SEGMENT	ORDER PILE	MIN COATING	COATING	ANOD ANO	DE
PILEID	DIAMETER OD (in)	EXISTING MUDLINE ELEV.	ELEV. (ft)	TIP ELEV (ft)	ALLOWANCE ± (ft)	E LENGTH (ft)	LENGTH (ET)	THICKNESS (IN)	LENGTH (FT)	THICKNESS (IN)	LENGTH (ft)	ELEV (ft)	LENGTH (ft)	QTY	ID	PILEID	DIAMETER OD (in)	EXISTING MUDLINE ELEV.	ELEV. (ft)	TIP ELEV (ft)	ALLOWANCE ±	E LENGTH (ft)	LENGTH (FT) T	HICKNESS (IN)	LENGTH (FT)	THICKNESS (IN)	LENGTH (ft)	ELEV (ft)	LENGTH (ft)	E QTY ID	
A1	72.00	-41.6	35.83	-156	10	10	130	2	85	1	215	-87	145	1		C1	72.00	-39.24	35.83	-191.00	10	10	130	2	120	1	250	-87	145	1	
A2	72.00	-41.6	35.83	-156	10	10	130	2	85	1	215	-87	145	1		C3	72.00	-39.35	35.83	-191.00	10	10	130	2	120	1	250	-87	145	1	
A3	72.00	-41.6	35.83	-156	10	10	130	2	85	1	215	-87	145	1		C5	72.00	-39.47	35.83	-191.00	10	10	130	2	120	1	250	-87	145	1	
A4	72.00	-41.6	35.83	-156	10	10	130	2	85	1	215	-87	145	1		C7	72.00	-39.58	35.83	-191.00	10	10	130	2	120	1	250	-87	145	1	_
A5 A6	72.00	-41.7	35.83	-156	10	10	130 130	2	85 85	1	215 215	-87	145 145	1		C9 C11	72.00	-39.69 -39.81	35.83	-191.00	10	10	130 130	2	120 120	1	250 250	-87	145 145	1	-
A7	72.00	-41.7	35.83	-156	10	10	130	2	85	1	215	-87	145	1		C13	72.00	-39.92	35.83	-191.00	10	10	130	2	120	1	250	-87	145	1	
A8	72.00	-41.7	35.83	-156	10	10	130	2	85	1	215	-87	145	1		C15	72.00	-40.03	35.83	-191.00	10	10	130	2	120	1	250	-87	145	1	
A9	72.00	-41.7	35.83	-156	10	10	130	2	85	1	215	-87	145	1		C17	72.00	-40.15	35.83	-191.00	10	10	130	2	120	1	250	-87	145	1	
A10	72.00	-41.7	35.83	-156	10	10	130	2	85	1	215	-87	145	1		C19	72.00	-40.26	35.83	-191.00	10	10	130	2	120	1	250	-87	145	1	
A11 A12	72.00 72.00	-41.8 -41.8	35.83 35.83	-156	10	10 10	130	2	85 85	1	215	-87 -87	145 145	1		C21 C23	72.00 72.00	-40.37 -40.49	35.83 35.83	-191.00	10	10	130	2	120 120	1	250 250	-87	145 145	1	_
A12 A13	72.00	-41.8	35.83	-156	10	10	130 130	2	85	1	215 215	-87	145	1		C25	72.00	-40.49	35.83	-191.00	10	10	130 130	2	120	1	250	-87	145	1	-
A14	72.00	-41.8	35.83	-156	10	10	130	2	85	1	215	-87	145	1		C27	72.00	-40.71	35.83	-191.00	10	10	130	2	120	1	250	-87	145	1	
A15	72.00	-41.8	35.83	-156	10	10	130	2	85	1	215	-87	145	1		C29	72.00	-40.82	35.83	-191.00	10	10	130	2	120	1	250	-87	145	1	_
A16	72.00	-41.8	35.83	-156	10	10	130	2	85	1	215	-87	145	1		C31	72.00	-40.94	35.83	-191.00	10	10	130	2	120	1	250	-87	145	1	
A17	72.00	-41.9	35.83	-156	10	10	130	2	85	1	215	-87	145	1		C33	72.00	-41.05	35.83	-191.00	10	10	130	2	120	1	250	-87	145	1	\neg
A18	72.00	-41.9	35.83	-156	10	10	130	2	85 95	1	215	-87	145	1		C35	72.00	-41.16	35.83	-191.00	10	10	130	2	120	1	250	-87	145	1	\neg
A19 A20	72.00 72.00	-41.9 -41.9	35.83 35.83	-156	10	10 10	130 130	2	85 85	1	215 215	-87	145 145	1		C37 C39	72.00 72.00	-41.28 -41.39	35.83	-191.00 -191.00	10	10	130 130	2	120 120	1	250 250	-87 -87	145 145	1	\neg
A20	72.00	-41.9	35.83	-156	10	10	130	2	85	1	215	-87	145	1		C35	72.00	-41.50	35.83	-191.00	10	10	130	2	120	1	250	-87	145	1	\neg
A22	72.00	-41.9	35.83	-156	10	10	130	2	85	1	215	-87	145	1		C43	72.00	-41.62	35.83	-191.00	10	10	130	2	120	1	250	-87	145	1	_
A23	72.00	-42.0	35.83	-156	10	10	130	2	85	1	215	-87	145	1		C45	72.00	-41.73	35.83	-191.00	10	10	130	2	120	1	250	-87	145	1	
A24	72.00	-42.0	35.83	-156	10	10	130	2	85	1	215	-87	145	1		D1	72.00	-38.65	35.83	-176.00	10	10	130	2	105	1	235	-87	145	1	\neg
A25 A26	72.00 72.00	-42.0	35.83 35.83	-156	10	10	130	2	85 85	1	215 215	-87	145 145	1		D2 D3	72.00 72.00	-38.70 -38.75	35.83 35.83	-176.00	10 10	10	130	2	105 105	1	235 235	-87 -87	145 145	1	-
A26	72.00	-42.0	35.83	-156	10	10	130 130	2	85	1	215	-87	145	1		D3	72.00	-38.79	35.83	-176.00	10	10	130 130	2	105	1	235	-87	145	1	\neg
A27	72.00	-42.0	35.83	-156	10	10	130	2	85	1	215	-87	145	1		D5	72.00	-38.84	35,83	-176.00	10	10	130	2	105	1	235	-87	145	1	\neg
A29	72.00	-42.1	35.83	-156	10	10	130	2	85	1	215	-87	145	1		D6	72.00	-38.89	35.83	-176.00	10	10	130	2	105	1	235	-87	145	1	
A30	72.00	-42.1	35.83	-156	10	10	130	2	85	1	215	-87	145	1		D7	72.00	-38.94	35.83	-176.00	10	10	130	2	105	1	235	-87	145	1	
A31	72.00	-42.1	35.83	-156	10	10	130	2	85	1	215	-87	145	1		D8	72.00	-38.99	35.83	-176.00	10	10	130	2	105	1	235	-87	145	1	_
A32	72.00	-42.1	35.83	-156	10	10	130	2	85	1	215	-87	145	1		D9	72.00	-39.04	35.83	-176.00	10	10	130	2	105	1	235	-87	145	1	_
A33 A34	72.00 72.00	-42.1 -42.1	35.83 35.83	-156	10	10 10	130 130	2	85 85	1	215 215	-87 -87	145 145	1		D10 D11	72.00	-39.08 -39.13	35.83	-176.00	10	10	130 130	2	105 105	1	235 235	-87 -87	145 145	1	-
A34 A35	72.00	-42.1	35.83	-156	10	10	130	2	85	1	215	-87	145	1		D11		-39.18	35.83	-176.00	10	10	130	2	105	1	235	-87	145	1	-
A36	72.00	-42.2	35.83	-156	10	10	130	2	85	1	215	-87	145	1		D13	72.00	-39.23	35.83	-176.00	10	10	130	2	105	1	235	-87	145	1	
A37	72.00	-42.2	35.83	-156	10	10	130	2	85	1	215	-87	145	1		D14	72.00	-39.28	35.83	-176.00	10	10	130	2	105	1	235	-87	145	1	
A38	72.00	-42.2	35.83	-156	10	10	130	2	85	1	215	-87	145	1		D15	72.00	-39.32	35.83	-176.00	10	10	130	2	105	1	235	-87	145	1	
A39	72.00	-42.2	35.83	-156	10	10	130	2	85	1	215	-87	145	1		D16	72.00	-39.37	35.83	-176.00	10	10	130	2	105	1	235	-87	145	1	_
A40 A41	72.00 72.00	-42.2	35.83	-156	10	10 10	130 130	2	85 85	1	215 215	-87 -87	145 145	1		D17 D18	72.00	-39.42 -39.47	35.83	-176.00	10	10	130 130	2	105 105	1	235 235	-87	145 145	1	-
A41 A42	72.00	-42.3	35.83	-156	10	10	130	2	85	1	215	-87	145	1		D19	72.00	-39.52	35.83	-176.00	10	10	130	2	105	1	235	-87	145	1	
A43	72.00	-42.3	35.83	-156	10	10	130	2	85	1	215	-87	145	1		D20		-39.57	35.83	-176.00	10	10	130	2	105	1	235	-87	145	1	
A44	72.00	-42.3	35.83	-156	10	10	130	2	85	1	215	-87	145	1		D21	72.00	-39.61	35.83	-176.00	10	10	130	2	105	1	235	-87	145	1	
A45	72.00	-42.3	35.83	-156	10	10	130	2	85	1	215	-87	145	1		D22		-39.66	35.83	-176.00	10	10	130	2	105	1	235	-87	145	1	
B1	72.00	-40.0	35.83	-191	10	10	130	2	120	1	250	-87	145	1		D23	72.00	-39.71	35.83	-176.00	10	10	130	2	105	1	235	-87	145	1	_
B3 B5	72.00 72.00	-40.1 -40.2	35.83	-191 -191	10	10 10	130 130	2	120 120	1	250 250	-87 -87	145 145			D24	72.00 72.00	-39.76 -39.81	35.83 35.83	-176.00	10	10 10	130 130	2	105 105	1	235 235	-87 -87	145 145	1	-
B3 B7	72.00	-40.2	35.83	-191	10	10	130	2	120	1	250	-87	145	1		D25	72.00	-39.85	35.83	-176.00	10	10	130	2	105	1	235	-87	145	1	\neg
B9	72.00	-40.4	35.83	-191	10	10	130	2	120	1	250	-87	145	1		D27	72.00	-39.90	35.83	-176.00	10	10	130	2	105	1	235	-87	145	1	_
B11	72.00	-40.4	35.83	-191	10	10	130	2	120	1	250	-87	145	1		D28		-39.95	35.83	-176.00	10	10	130	2	105	1	235	-87	145	1	
B13	72.00	-40.5	35.83	-191	10	10	130	2	120	1	250	-87	145	1		D29	72.00	-40.00	35.83	-176.00	10	10	130	2	105	1	235	-87	145	1	
B15	72.00	-40.6	35.83	-191	10	10	130	2	120	1	250	-87	145	1		D30	72.00	-40.05	35.83	-176.00	10	10	130	2	105	1	235	-87	145	1	-
B17 B19	72.00	-40.7 -40.8	35.83 35.83	-191 -191	10	10 10	130 130	2	120 120	1	250	-87	145 145	1		D31 D32	72.00	-40.10	35.83 35.83	-176.00	10	10 10	130 130	2	105 105	1	235 235	-87 -87	145 145	1	\neg
B13 B21	72.00	-40.9	35.83	-191	10	10	130	2	120	1	250	-87	145	1		D32		-40.14	35.83	-176.00	10	10	130	2	105	1	235	-87	145	1	\neg
B23	72.00	-41.0	35.83	-191	10	10	130	2	120	1	250	-87	145	1		D34		-40.24	35.83	-176.00	10	10	130	2	105	1	235	-87	145	1	
B25	72.00	-41.1	35.83	-191	10	10	130	2	120	1	250	-87	145	1		D35		-40.29	35.83	-176.00	10	10	130	2	105	1	235	-87	145	1	
B27	72.00	-41.1	35.83	-191	10	10	130	2	120	1	250	-87	145	1		D36		-40.34	35.83	-176.00	10	10	130	2	105	1	235	-87	145	1	
B29	72.00	-41.2	35.83	-191	10	10	130	2	120	1	250	-87	145	1		D37		-40.38	35.83	-176.00	10	10	130	2	105	1	235	-87	145	1	-
B31 B33	72.00 72.00	-41.3 -41.4	35.83	-191 -191	10	10 10	130 130	2	120 120	1	250 250	-87 -87	145 145	1		D38 D39		-40.43	35.83 35.83	-176.00	10	10 10	130 130	2	105 105	1	235 235	-87 -87	145 145	1	\neg
B35	72.00	-41.4	35.83	-191	10	10	130	2	120	1	250	-87	145	1		D39		-40.48	35.83	-176.00	10	10	130	2	105	1	235	-87	145	1	\neg
B37	72.00	-41.6	35.83	-191	10	10	130	2	120	1	250	-87	145	1		D41		-40.58	35.83	-176.00	10	10	130	2	105	1	235	-87	145	1	\neg
B39	72.00	-41.7	35.83	-191	10	10	130	2	120	1	250	-87	145	1		D42	72.00	-40.63	35.83	-176.00	10	10	130	2	105	1	235	-87	145	1	
B41	72.00	-41.8	35.83	-191	10	10	130	2	120	1	250	-87	145	1		D43		-40.67	35.83	-176.00	10	10	130	2	105	1	235	-87	145	1	
B43		-41.8	35.83	-191	10	10	130	2	120	1	250	-87	145	1		D44	-	-40.72	35.83	-176.00	10	10	130	2	105	1	235	-87	145	1	\neg
B45	72.00	-41.9	35.83	-191	10	10	130	2	120	1	250	-87	145	1		D45	72.00	-40.77 -36.06	35.83	-176.00	10	10	130	2	105 35	1	235 165	-87	145 145	1	-
																	72.00	-36.06	35.83	-106.00	10	10	130 130	2	35	1	165	-87	145	1	\neg
																		55.00		200.00	1 10	20	100	-		· *	200		2.0		

VERIEY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING	REV	DATE	DESCRIPTION	BY	APVD	(HD)	115	P		STATE OF ALASA	Л	CONT OF ALASH	STRUCTU
0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.						1400 W. BE	GHD-WSP JV NSON BLVD, SUITE 400 RAGE, ALASKA 99503 SE# AK BUSINESS. (VSP) 2164152(GHD) - 1 DR	LICENSE # 113511(WSP) CHK	APVD		PORTO ALASKA		WHARF PILE SC
			REVISIONS			JRG	JDM	JRG JLTANT	JRG	SEAL		APPENDER	

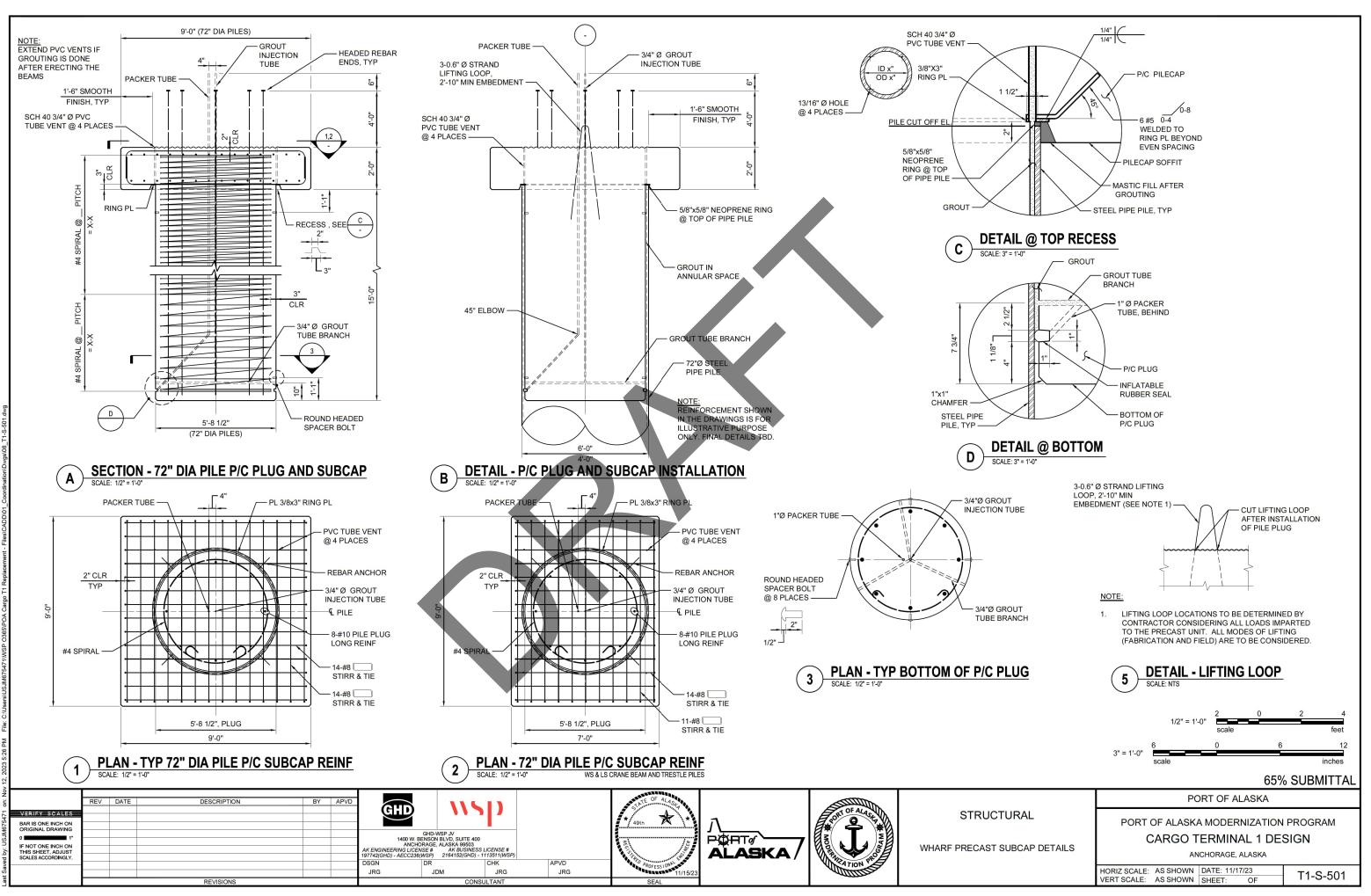
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	PORT OF ALASKA	
JCTURAL	PORT OF ALASKA MODERNIZATION	PROGRAM
	CARGO TERMINAL 1 DE	SIGN
ILE SCHEDULE	ANCHORAGE, ALASKA	
	HORIZ SCALE: AS SHOWN DATE: 11/17/23 VERT SCALE: AS SHOWN SHEET: OF	T1-S-403

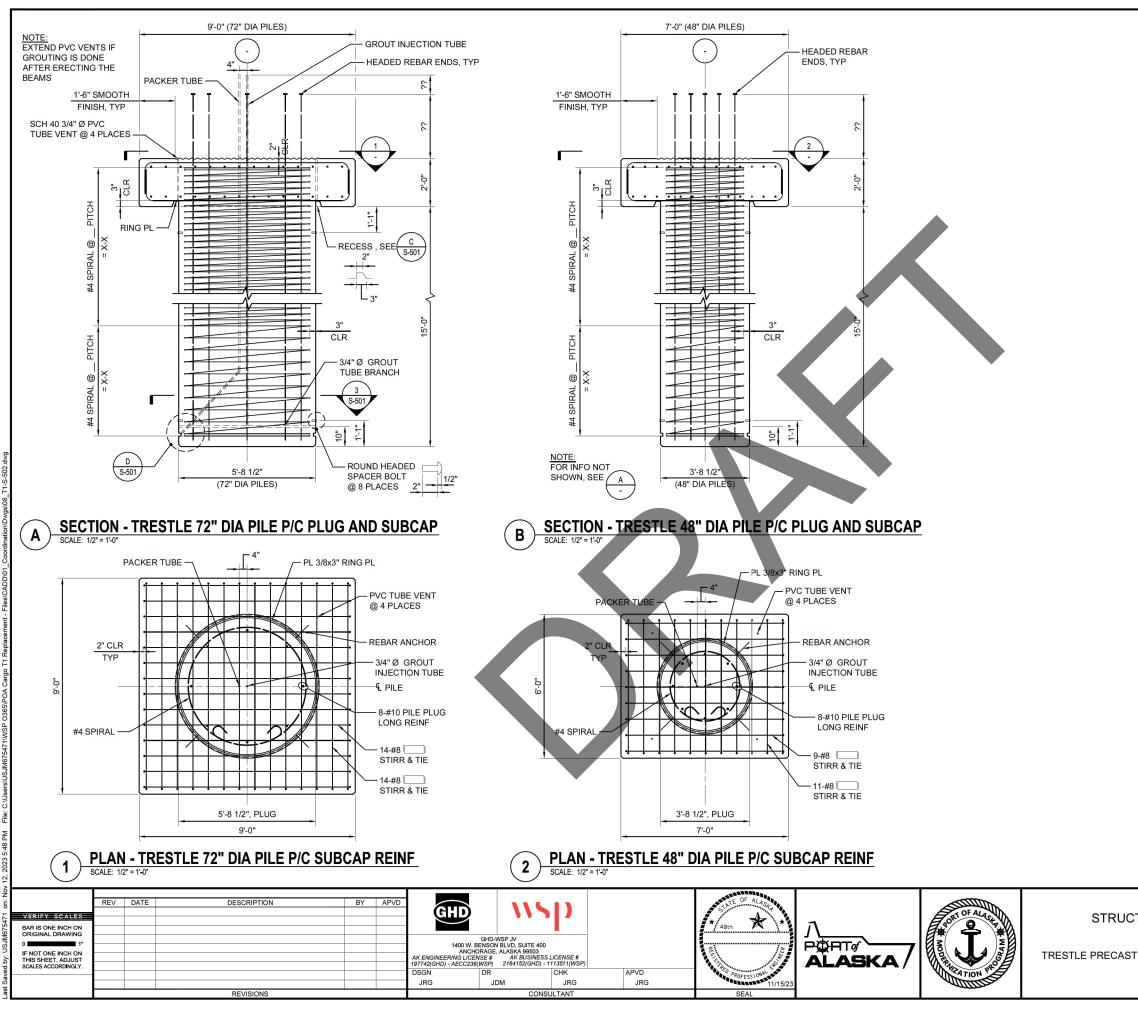
65% SUBMITTAL

SOUTH TRESTLE															
PILE ID	PILE DIAMETER OD (in)	APPROXIMATE EXISTING	PILE CUT-OFF ELEV. (ft)	STEEL PIPE TIP ELEV (ft)	DRIVING ALLOWANCE ±	OVERDRIVE LENGTH (ft)	UPPER SEGMENT		LOWER SEGMENT		ORDER PILE	MIN COATING ELEV (ft)	COATING LENGTH	ANODE QTY	
		MUDLINE ELEV.			(ft)		LENGTH (FT)	THICKNESS (IN)	LENGTH (FT)	THICKNESS (IN)			(ft)	~	
E 0.5	72	-39.29	34.05	-146	10	10	130	2	75	1	205	-87	145.00	1	
E 1.5	72	-39.29	34.05	-146	10	10	130	2	75	1	205	-87	145.00	1	<u> </u>
E 2.5	72	-39.29	34.05	-146	10	10	130	2	75	1	205	-87	145.00	1	
F 0.5	72	-9.83	32.46	-186	10	10	130	2	110	1	240	-87	140.00	1	
F 1.5	72	-9.83	32.46	-186	10	10	130	2	110	1	240	-87	140.00	1	
F 2.5	72	-9.83	32.46	-186	10	10	130	2	110	1	240	-87	140.00	1	
G 0.5	72	9.92	30.94	-116	10	10	130	2	40	1	170	-87	140.00	1	
G 1.5	72	9.92	30.94	-116	10	10	130	2	40	1	170	-87	140.00	1	
G 2.5	72	9.92	30.94	-116	10	10	130	2	40	1	170	-87	140.00	1	
H 0.5	48	13.37	33.99	-111.05	10	10	N/A	N/A	170	1	170	-25.05	80.00	1	
H 1.5	48	13.37	33.99	-111.05	10	10	N/A	N/A	170	1	170	-25.05	80.00	1	
H 2.5	48	13.37	33.99	-111.05	10	10	N/A	N/A	170	1	170	-25.05	80.00	1	
J 0.5	48	16.37	33.46	-109.95	10	10	N/A	N/A	165	1	165	-18.95	75.00	1	
J 1.5	48	16.37	33.46	-109.95	10	10	N/A	N/A	165	1	165	-18.95	75.00	1	
J 2.5	48	16.37	33.46	-109.95	10	10	N/A	N/A	165	1	165	-18.95	75.00	1	
K 0.5	48	25.9	32.92	-50.40	10	10	N/A	N/A	105	1	105	-9.4	65.00	1	
K 1.5	48	25.9	32.92	-50.40	10	10	N/A	N/A	105	1	105	-9.4	65.00	1	
K 2.5	48	25.9	32.92	-50.40	10	10	N/A	N/A	105	1	105	-9.4	65.00	1	

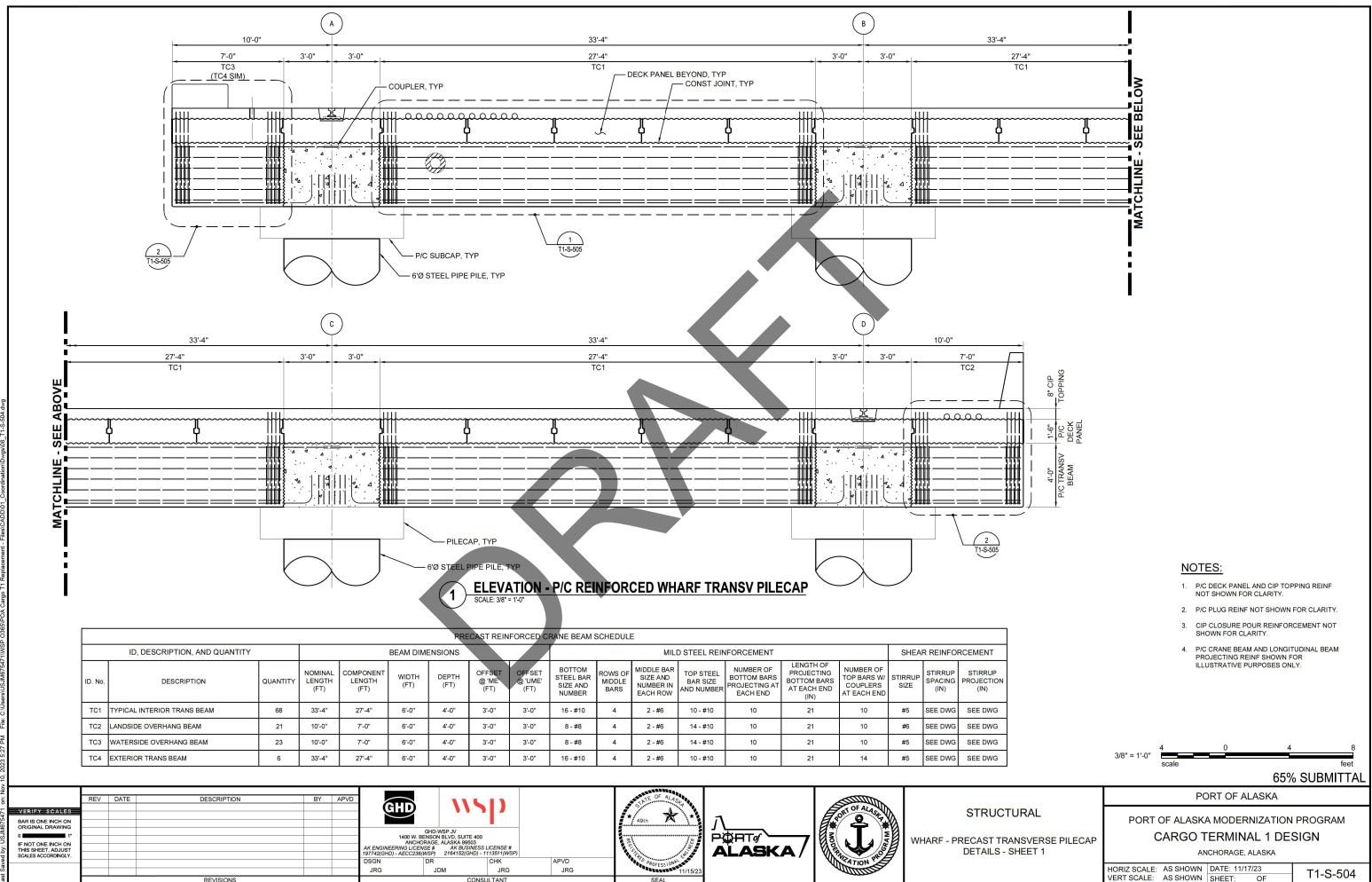
PHE ID PHE DIAMET PPROXIMATE EXISTING DD (in) PHE CUT-off EXISTING EVV. (it) STEL (PP TP ELEV (it) DRIVING TP ELEV (it) ORROWE ELEV.(it) UPPE-XEL (it) UPPE-XEL EVRESTING DROWET MIN COATING ENDITIE COATING (NOT) ANODE QTV QTV QDV QTV QDV QD	NORTH TRESTLE															
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	PILE ID		EXISTING		TIP ELEV	ALLOWANCE ±	E LENGTH							LENGTH		
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	F 43 5	72		24.99								205	-87		1	
E45.5 72 -38.55 34.88 -146 10 10 130 2 75 1 205 -87 145.00 1 F43.5 72 -14.27 33.55 -186 10 10 130 2 110 1 240 -87 145.00 1 F44.5 72 -14.27 33.55 -186 10 10 130 2 110 1 240 -87 145.00 1 F44.5 72 -14.27 33.55 -186 10 10 130 2 110 1 240 -87 145.00 1 G43.5 72 -14.27 33.55 -186 10 10 130 2 40 1 170 -87 140.00 1 G43.5 72 4.95 32.26 -116 10 10 130 2 40 1 170 -87 140.00 1 H43.5															1	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$															1	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	F 43.5	72	-14.27		-186						1	240		145.00	1	
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H 45.5 72 16.38 30.96 -121 10 10 130 2 45 1 175 -87 140.00 1 J 43.5 48 19.81 34.01 -111 10 10 N/A N/A 170 1 170 -25 80.00 1 J 44.5 48 19.81 34.01 -111 10 N/A N/A 170 1 170 -25 80.00 1 J 45.5 48 19.81 34.01 -111 10 N/A N/A 170 1 170 -25 80.00 1 J 45.5 48 19.81 34.61 -107.46 10 N/A N/A 170 1 170 -25 80.00 1 K 43.5 48 21.54 33.46 -107.46 10 N/A N/A 165 1 165 -16.46 70.00 1 K 45.5 48 21.54 33.46 </td <td>H 43.5</td> <td>72</td> <td>16.38</td> <td>30.96</td> <td>-121</td> <td>10</td> <td>10</td> <td>130</td> <td>2</td> <td>45</td> <td>1</td> <td>175</td> <td>-87</td> <td>140.00</td> <td>1</td> <td></td>	H 43.5	72	16.38	30.96	-121	10	10	130	2	45	1	175	-87	140.00	1	
J 43.5 48 19.81 34.01 J11 10 10 N/A N/A 170 1 170 -25 80.00 1 J 44.5 48 19.81 34.01 -111 10 10 N/A N/A 170 1 170 -25 80.00 1 J 44.5 48 19.81 34.01 -111 10 10 N/A N/A 170 1 170 -25 80.00 1 J 45.5 48 19.81 34.01 -111 10 10 N/A N/A 170 1 170 -25 80.00 1 K 43.5 48 21.54 33.46 -107.46 10 10 N/A N/A 165 1 165 -16.46 70.00 1 K 45.5 48 21.54 33.46 -107.46 10 10 N/A N/A 165 1 165 -16.46 70.00 1	H 44.5	72	16.38	30.96	-121	10	10	130	2	45	1	175	-87	140.00	1	
J 44.5 48 19.81 34.01 -111 10 10 N/A N/A 170 1 170 -25 80.00 1 J 45.5 48 19.81 34.01 -111 10 10 N/A N/A 170 1 170 -25 80.00 1 K 43.5 48 21.54 33.46 -107.46 10 10 N/A N/A 165 1 165 -16.46 70.00 1 K 43.5 48 21.54 33.46 -107.46 10 10 N/A N/A 165 1 165 -16.46 70.00 1 K 44.5 48 21.54 33.46 -107.46 10 10 N/A N/A 165 1 165 -16.46 70.00 1 K 45.5 48 21.54 33.46 -107.46 10 10 N/A N/A 165 1 165 -16.46 70.00 1 <td>H 45.5</td> <td>72</td> <td>16.38</td> <td>30.96</td> <td>-121</td> <td>10</td> <td>10</td> <td>130</td> <td>2</td> <td>45</td> <td>1</td> <td>175</td> <td>-87</td> <td>140.00</td> <td>1</td> <td></td>	H 45.5	72	16.38	30.96	-121	10	10	130	2	45	1	175	-87	140.00	1	
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K 43.5 48 21.54 33.46 -107.46 10 10 N/A N/A 165 1 165 -16.46 70.00 1 K 44.5 48 21.54 33.46 -107.46 10 10 N/A N/A 165 1 165 -16.46 70.00 1 K 44.5 48 21.54 33.46 -107.46 10 10 N/A N/A 165 1 165 -16.46 70.00 1 K 45.5 48 21.54 33.46 -107.46 10 10 N/A N/A 165 1 165 -16.46 70.00 1 L 43.5 48 23.23 32.92 -47.76 10 10 N/A N/A 105 1 105 -6.76 60.00 1 L 44.5 48 23.23 32.92 -47.76 10 10 N/A N/A 105 1 105 -6.76 60.00 1	J 44.5	48	19.81	34.01	-111	10	10	N/A	N/A	170	1	170	-25	80.00	1	
K 44.5 48 21.54 33.46 -107.46 10 10 N/A N/A 165 1 165 -16.46 70.00 1 K 45.5 48 21.54 33.46 -107.46 10 10 N/A N/A 165 1 165 -16.46 70.00 1 L 43.5 48 23.23 32.32 -47.76 10 10 N/A N/A 105 1 105 -6.76 60.00 1 L 44.5 48 23.23 32.92 -47.76 10 10 N/A N/A 105 1 105 -6.76 60.00 1 L 44.5 48 23.23 32.92 -47.76 10 10 N/A N/A 105 1 105 -6.76 60.00 1	J 45.5	48	19.81	34.01	-111	10	10	N/A	N/A	170	1	170	-25	80.00	1	
K45.5 48 21.54 33.46 -107.46 10 10 N/A N/A 165 1 165 -16.46 70.00 1 L43.5 48 23.23 32.92 -47.76 10 10 N/A N/A 105 1 105 -6.76 60.00 1 L44.5 48 23.23 32.92 -47.76 10 10 N/A N/A 105 1 105 -6.76 60.00 1 L44.5 48 23.23 32.92 -47.76 10 10 N/A N/A 105 1 105 -6.76 60.00 1	K 43.5	48	21.54	33.46	-107.46	10	10	N/A	N/A	165	1	165	-16.46	70.00	1	
L 43.5 48 23.23 32.92 47.76 10 10 N/A N/A 105 1 105 -6.76 60.00 1 L 44.5 48 23.23 32.92 -47.76 10 10 N/A N/A 105 1 105 -6.76 60.00 1 L 44.5 48 23.23 32.92 -47.76 10 10 N/A N/A 105 1 105 -6.76 60.00 1	K 44.5	48	21.54	33.46	-107.46	10	10	N/A	N/A	165	1	165	-16.46	70.00	1	
L44.5 48 23/23 32.92 -47.76 10 10 N/A N/A 105 1 105 -6.76 60.00 1	K 45.5	48	21.54	33.46	-107.46	10	10	N/A	N/A	165	1	165	-16.46	70.00	1	
				32.92				N/A		105	1				1	
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	L 45.5	48	23.23	32.92	-47.76	10	10	N/A	N/A	105	1	105	-6.76	60.00	1	1

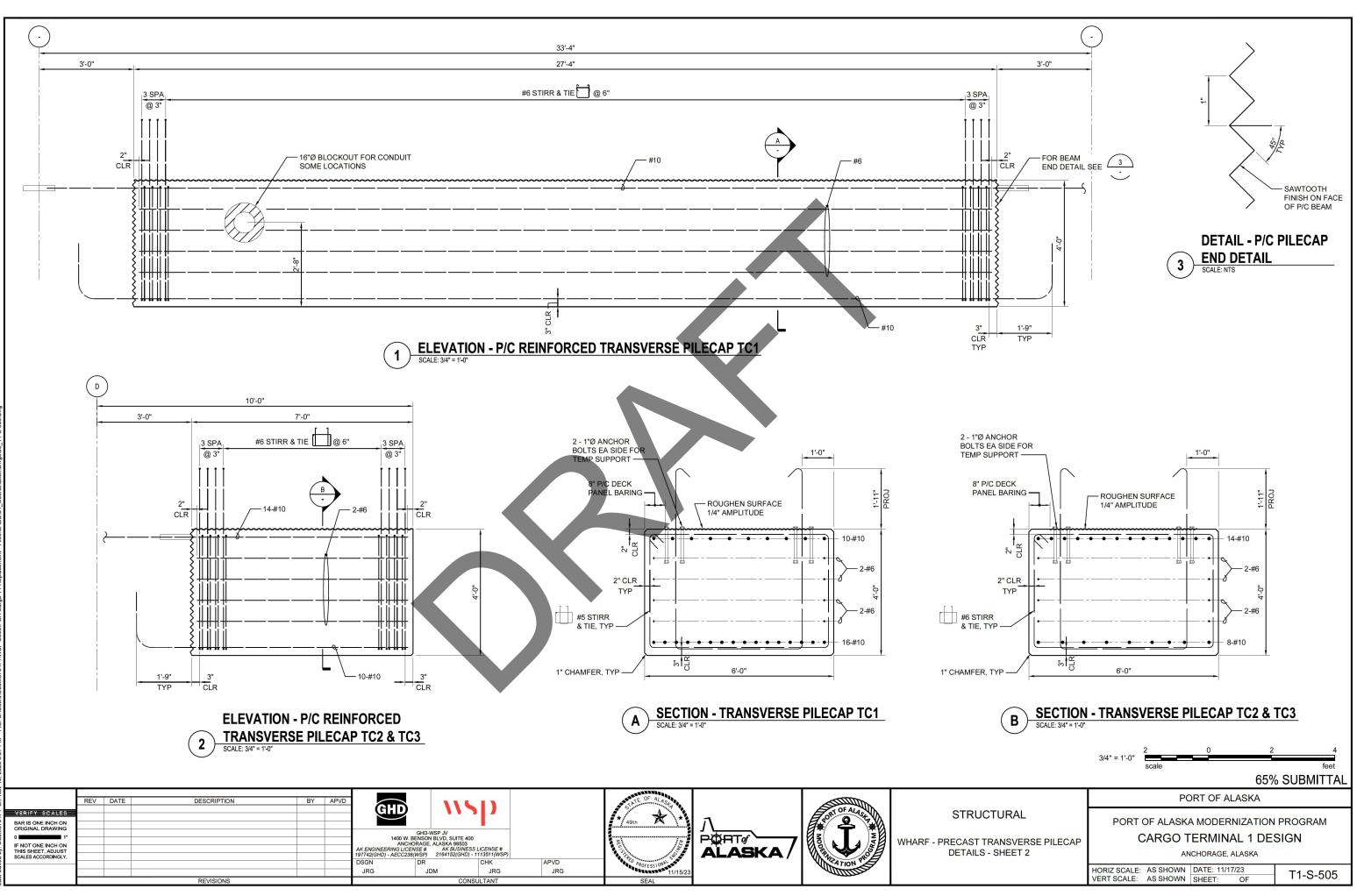
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	REV DATE DESCRIPTION BY APV		A THE OF ALASE	PORT OF ALASKA
ZERIEY SCALES AR IS ONE INCH ON DRIGINAL DRAWING 1" NOT ONE INCH ON HIS SHEET, ADJUST CALES ACCORDINGLY.		GHD GHD.WSP.JV 1400 W. BENSON BLVD, SUITE 400 ANCHORAGE, ALASKA 99503 AK ENGINEERING LICENSE # 197742(GHD) - AEC236(WSP) AK BUSINESS LICENSE # AK BUSINESS LICENSE # 197742(GHD) - AEC236(WSP) DSGN DR CHK		PORT OF ALASKA MODERNIZATION PROGRAM CARGO TERMINAL 1 DESIGN ANCHORAGE, ALASKA
	REVISIONS	JRG JDM JRG JRG CONSULTANT	SEAL	HORIZ SCALE: AS SHOWN DATE: 11/17/23 VERT SCALE: AS SHOWN SHEET: OF T1-S-404

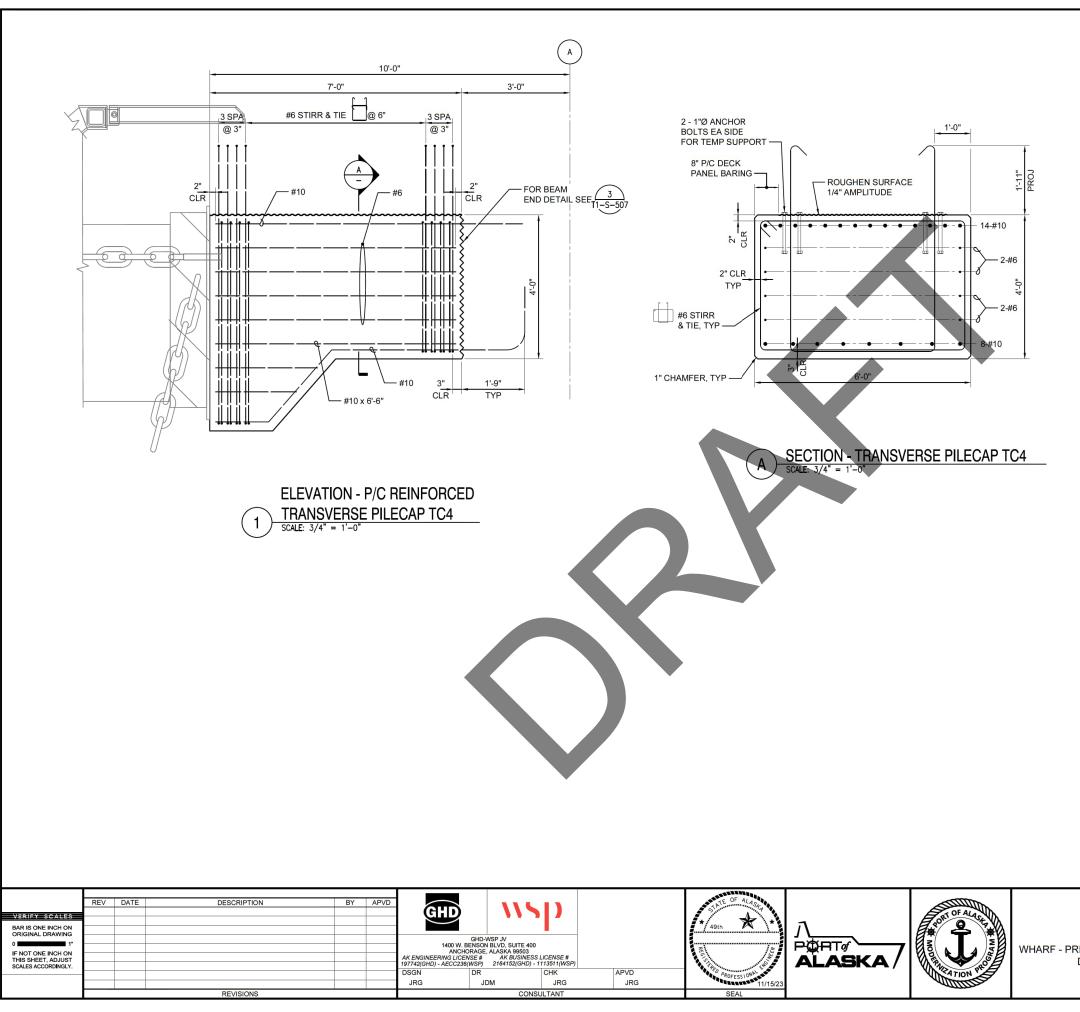


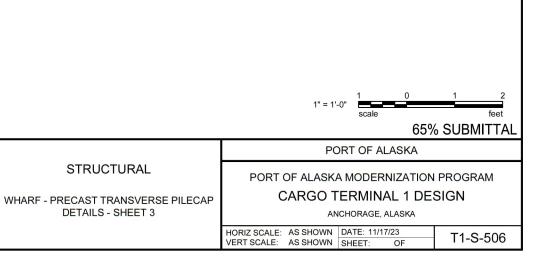


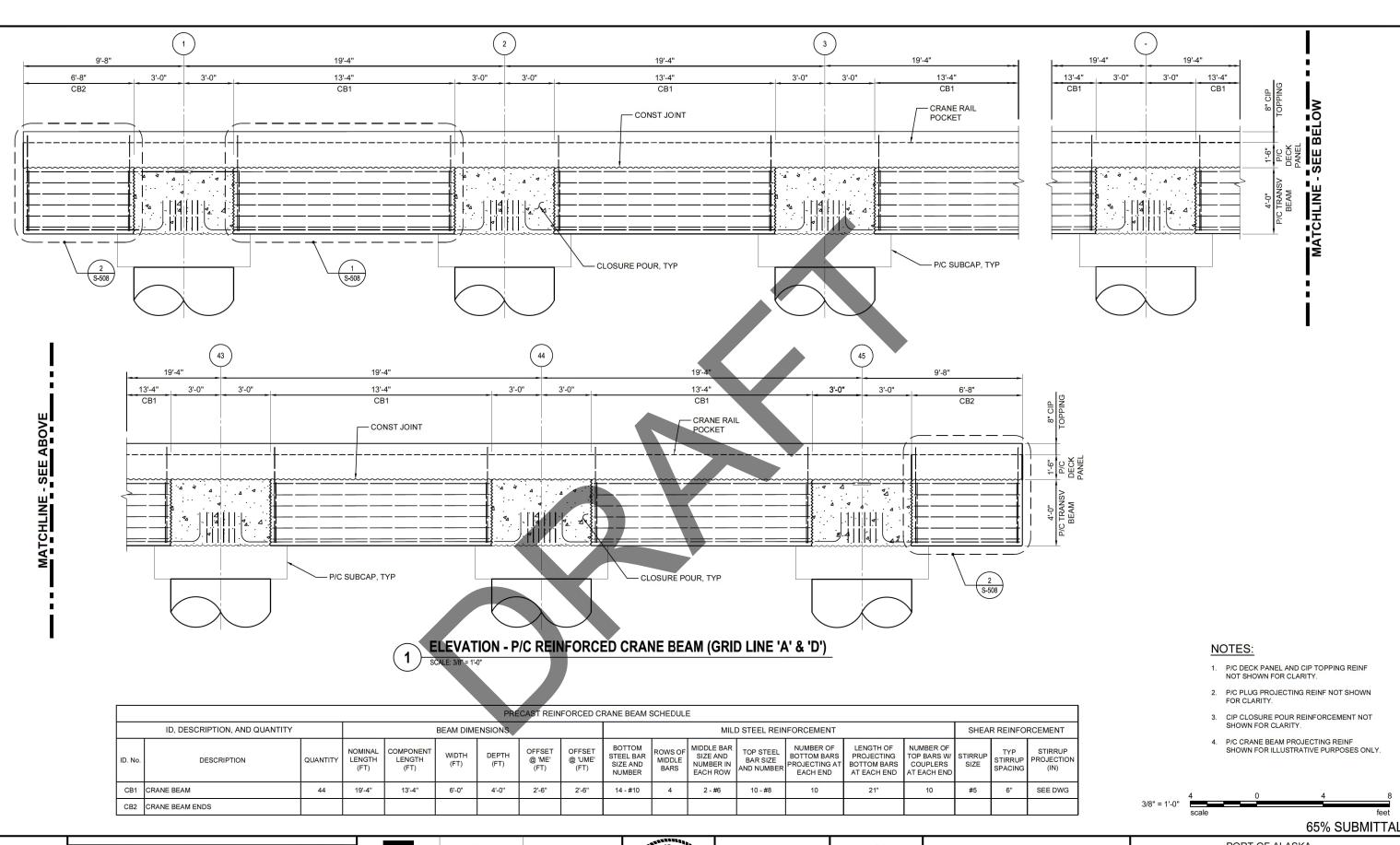
	1/2" = 1'-0"	2 scale	。 65%		feet IITTAL		
	POR	T OF ALAS	SKA				
TURAL	PORT OF ALASKA MODERNIZATION PROGRAM						
SUBCAP DETAILS	CARGO TERMINAL 1 DESIGN						
SOBCAP DETAILS	ANCHORAGE, ALASKA						
		ATE: 11/17/23 HEET: C)F	T1-S	-502		
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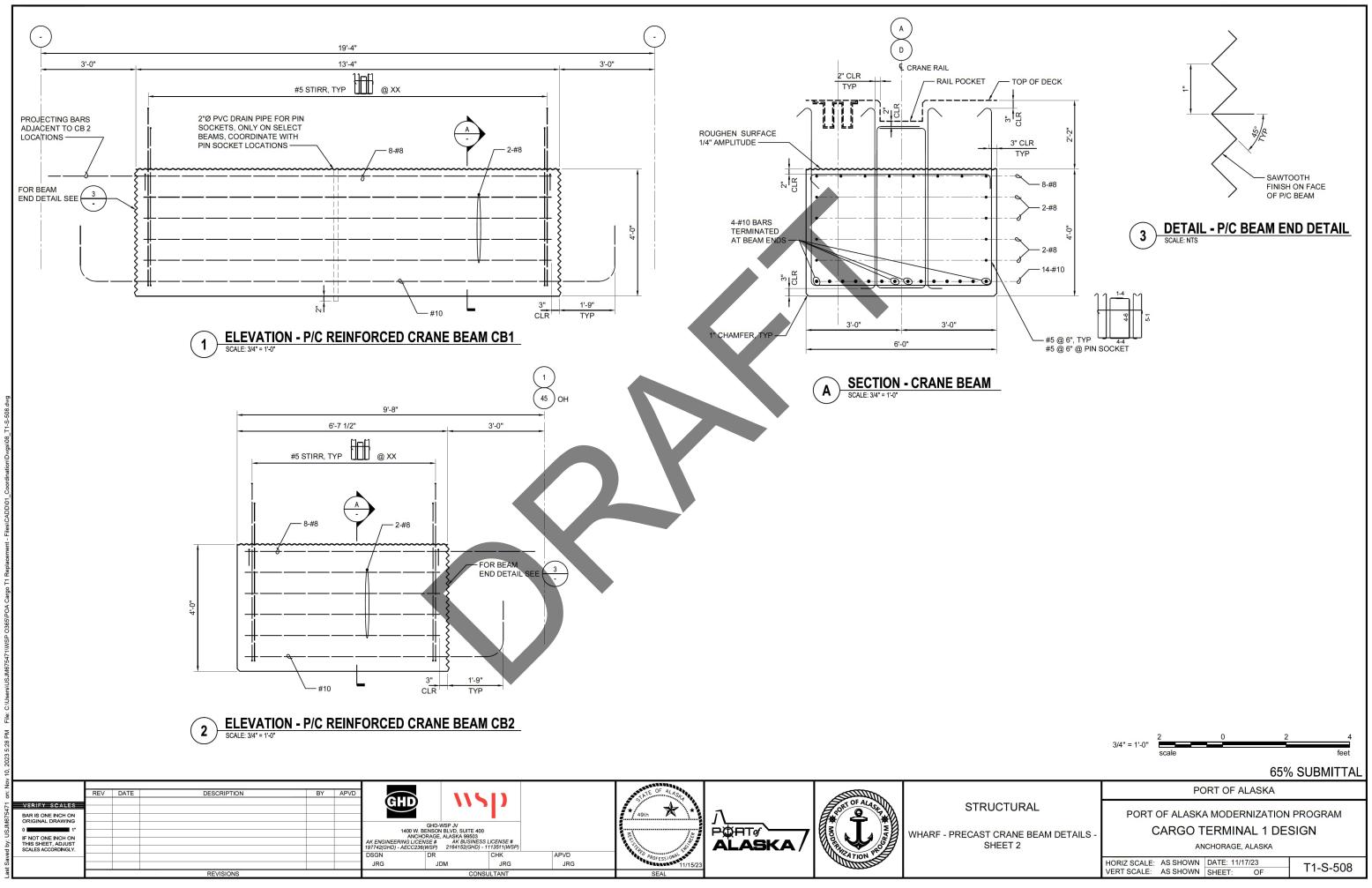


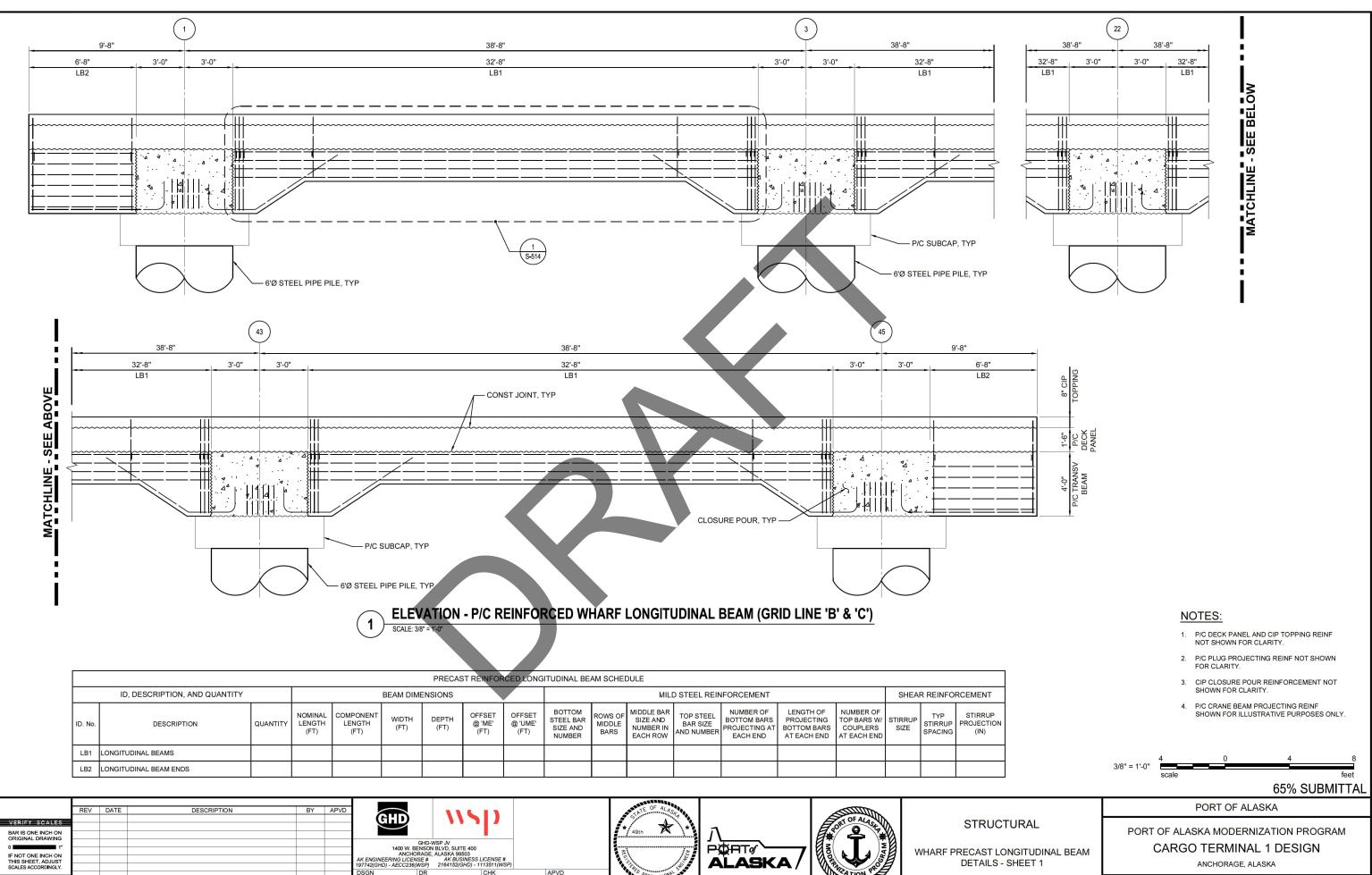
L			FORCED CI	RAINE BEAM SCHEDULE																
		ID, DESCRIPTION, AND QUANTITY				BEAM DIM	ENSIONS			MILD STEEL REINFORCEMENT								SHEAR REINFORCE		
	ID. No.	DESCRIPTION	QUANTITY	NOMINAL LENGTH (FT)	COMPONENT LENGTH (FT)	WIDTH (FT)	DEPTH (FT)	OFFSET @ 'ME' (FT)	OFFSET @ 'UME' (FT)	BOTTOM STEEL BAR SIZE AND NUMBER	ROWS OF MIDDLE BARS	MIDDLE BAR SIZE AND NUMBER IN EACH ROW	TOP STEEL BAR SIZE AND NUMBER	NUMBER OF BOTTOM BARS PROJECTING AT EACH END	LENGTH OF PROJECTING BOTTOM BARS AT EACH END	NUMBER OF TOP BARS W/ COUPLERS AT EACH END	SIZE	TYP STIRRUP SPACING	PR	
	CB1	CRANE BEAM	44	19'-4"	13'-4"	6'-0''	4'-0"	2'-6"	2'-6"	14 - #10	4	2 - #6	10 - #8	10	21"	10	#5	6"	S	
	CB2	CRANE BEAM ENDS																		

5		r									1	
	VERIFY SCALES BAR IS ONE INCH ON	REV	DATE	DESCRIPTION BY APVD	GHD	115)		Agen ALAS	Л		STRUCTU
i caved by. count	ORIGINAL DRAWING 0 11 11 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.				1400 W. BENSON ANCHORAGE AK ENGINEERING LICENSE # 197742(GHD) - AECC236(WSP) DSGN DR		ENSE # 3511(WSP) HK JRG	APVD JRG	Profession 11/15/23	ALASKA	J. J. WAR	WHARF - PRECAST CRAN SHEET
				REVISIONS		CONSUL	TANT		SEAL			



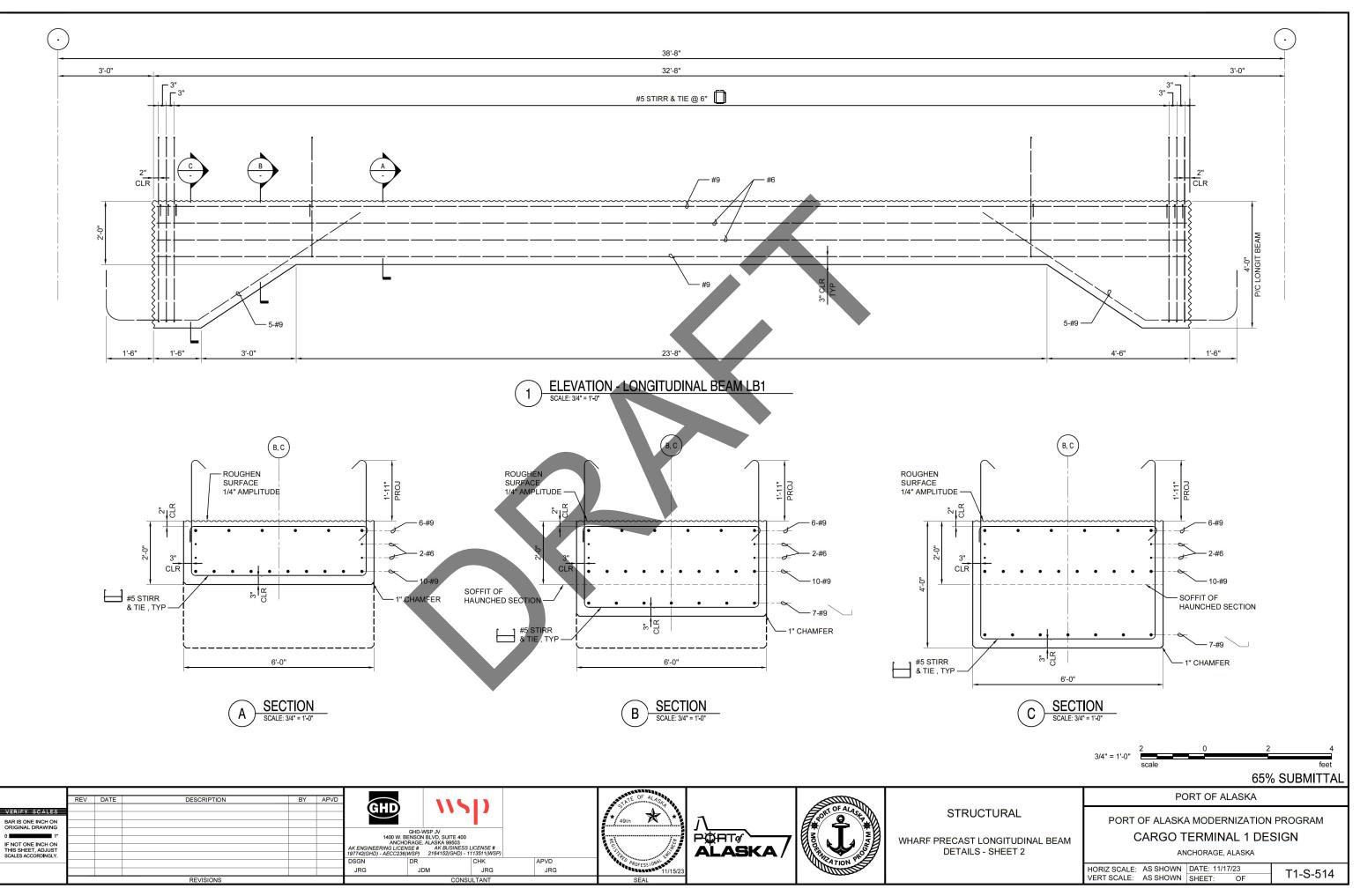
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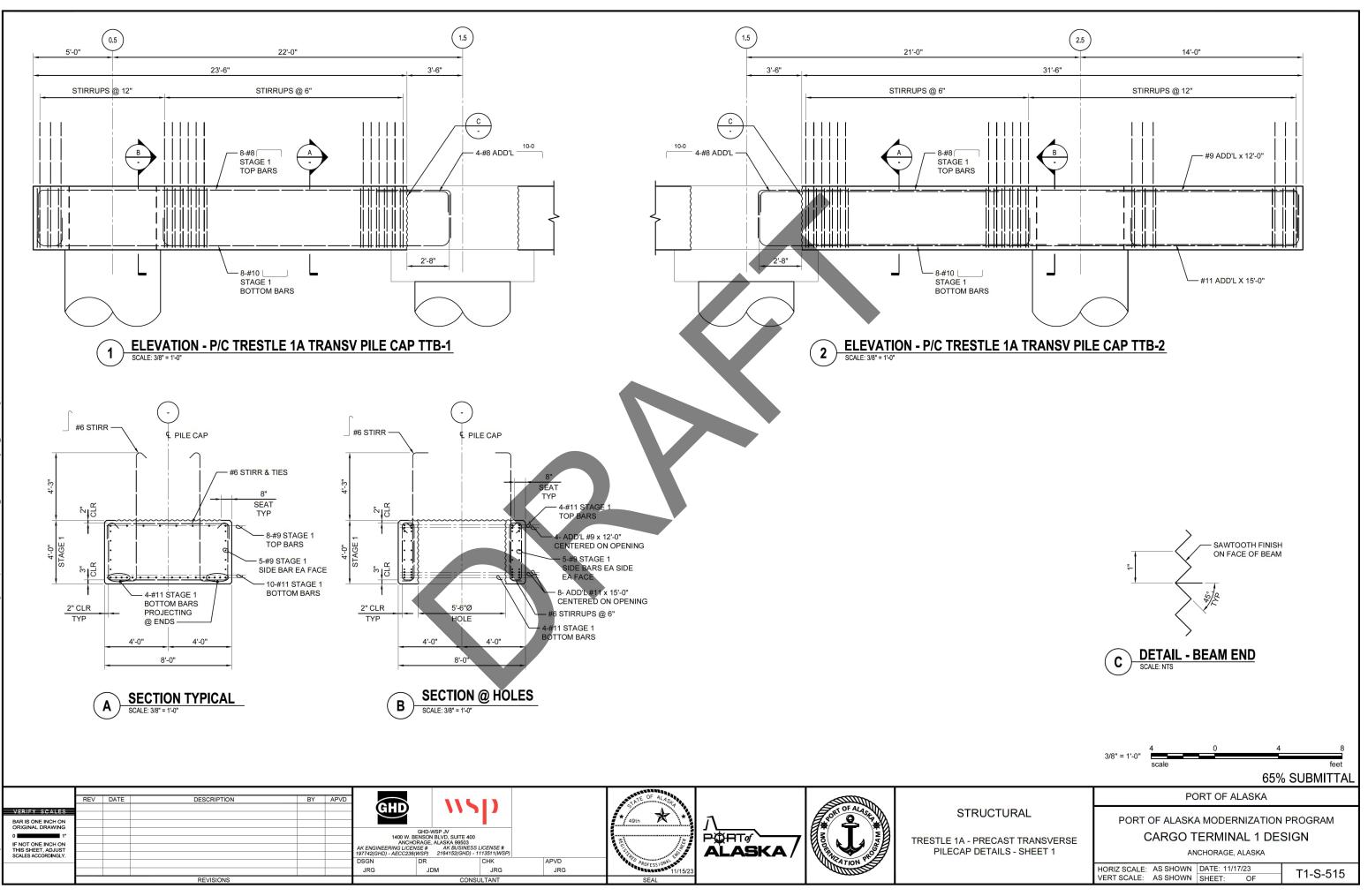


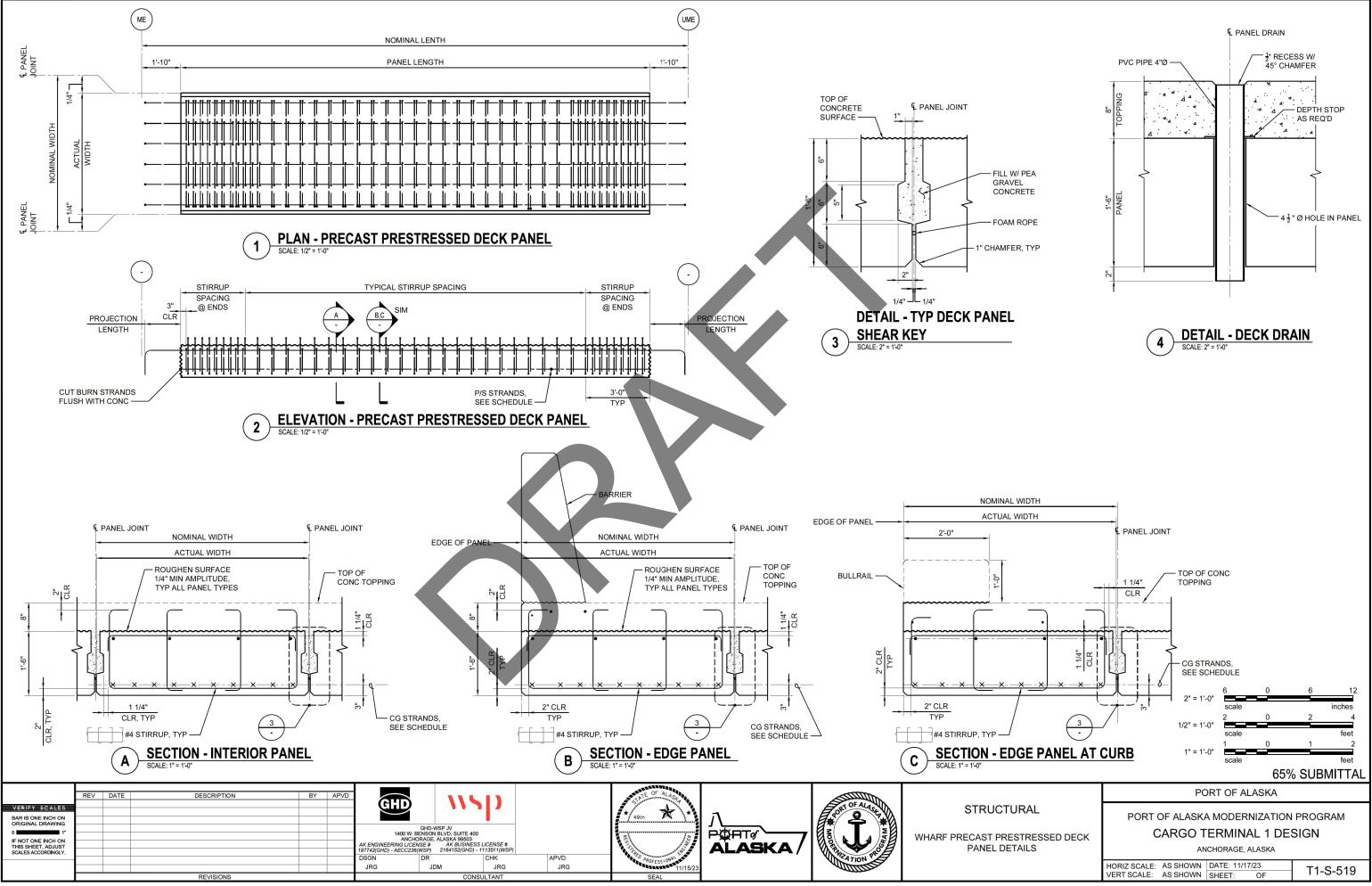


VERIFY SCALES BAR IS ONE INCH ON DRIGINAL DRAWING	REV	DATE	DESCRIPTION	BY	APVD	GHD	115	P		Agth	۸	CONT OF ALASH	STRUC
F NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.						1400 W. BENSC ANCHORAGI AK ENGINEERING LICENSE # 197742(GHD) - AECC236(WSP))-WSP JV DN BLVD, SUITE 400 E, ALASKA 99503 AK BUSINESS LI 2164152(GHD) - 11	ICENSE # 113511(WSP)		RC STR		MODEL	WHARF PRECAST LC DETAILS -
						DSGN DR JRG .	JDM	CHK JRG	APVD JRG	PROFESSIONAL 11/15/23		THEATION SE	
			REVISIONS				CONSU	ILTANT		SEAL			

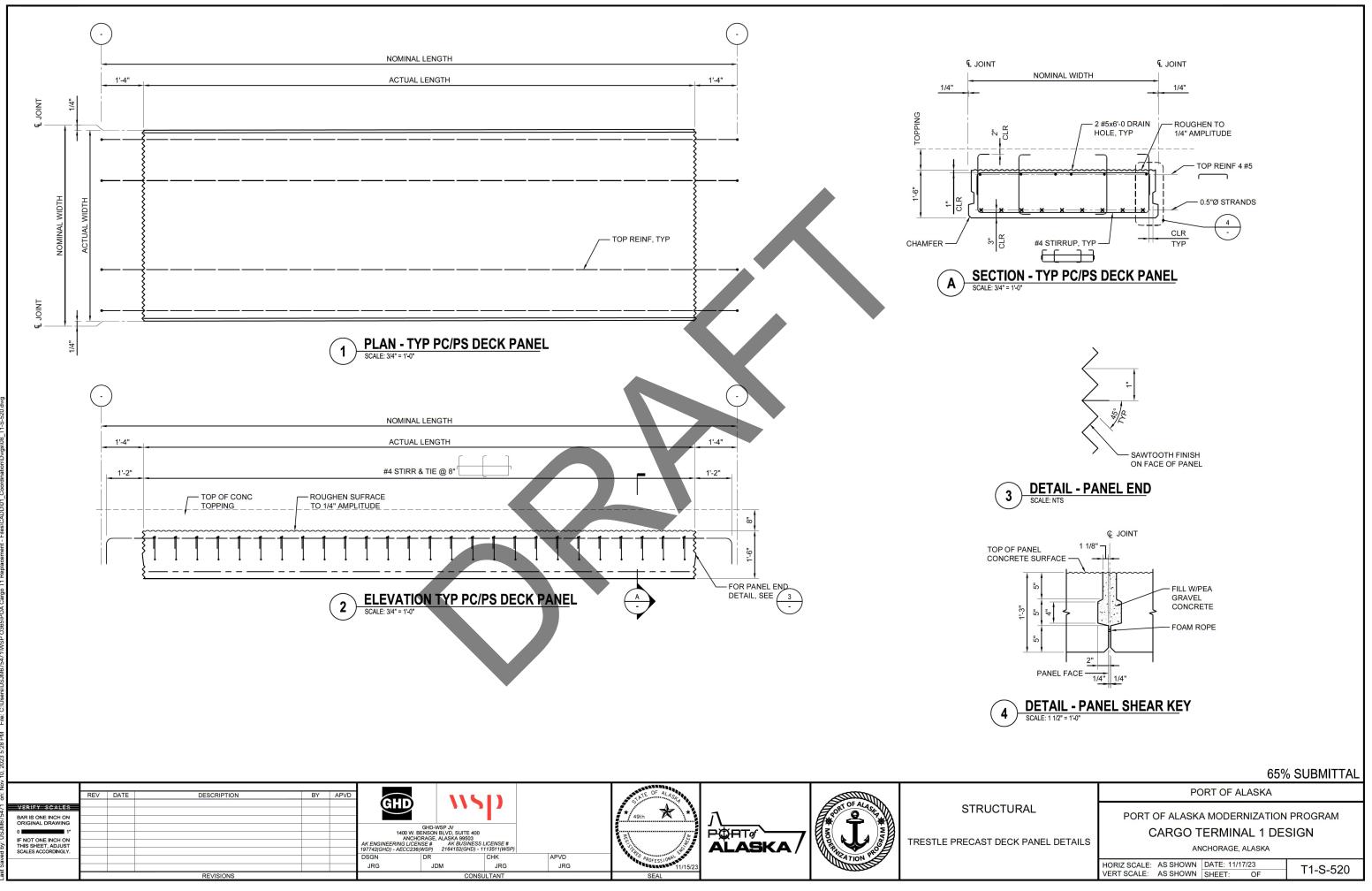
HORIZ SCALE: AS SHO		17/23	T1-S-513
VERT SCALE: AS SHO	OWN SHEET:	OF	110010







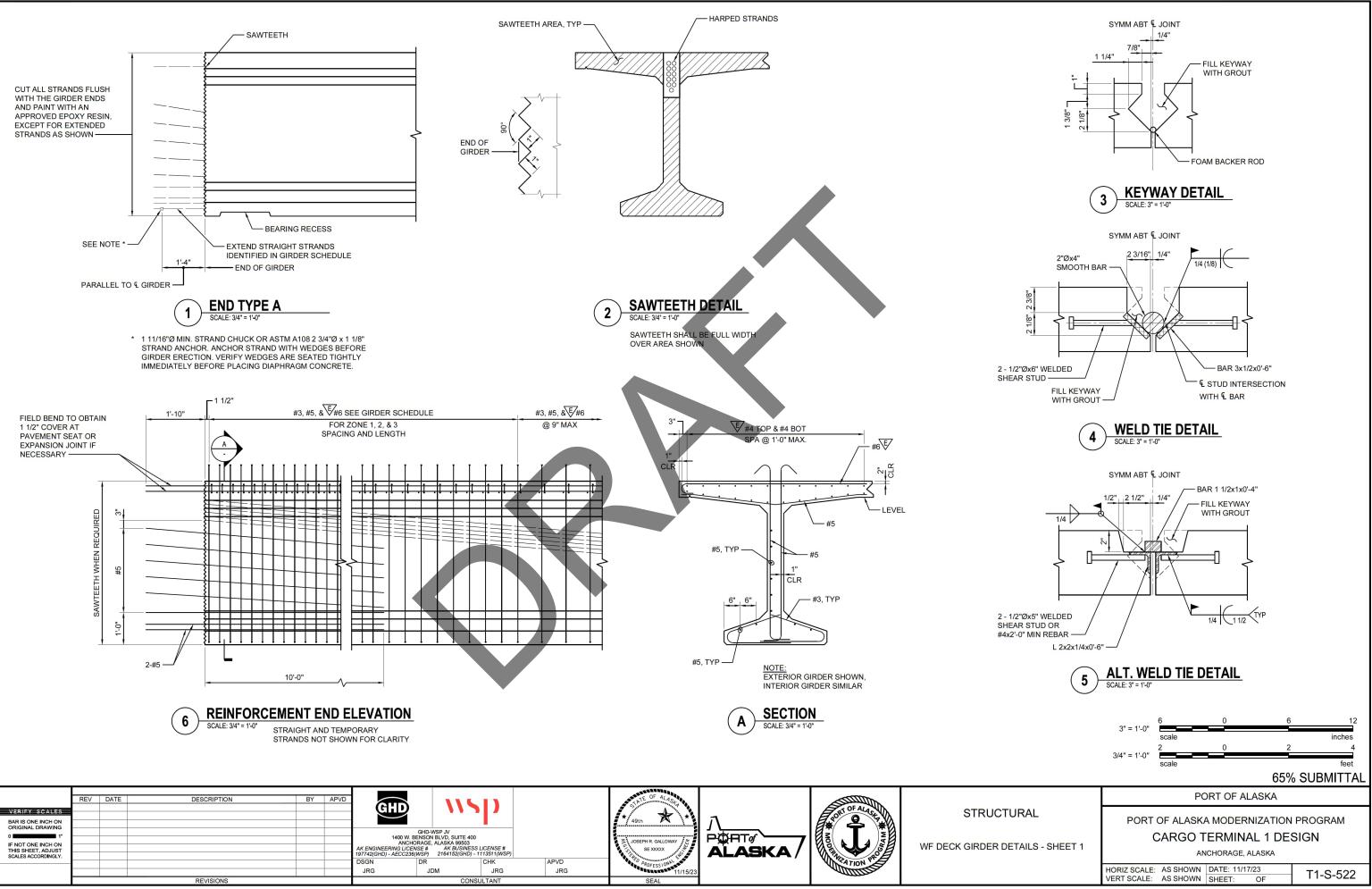
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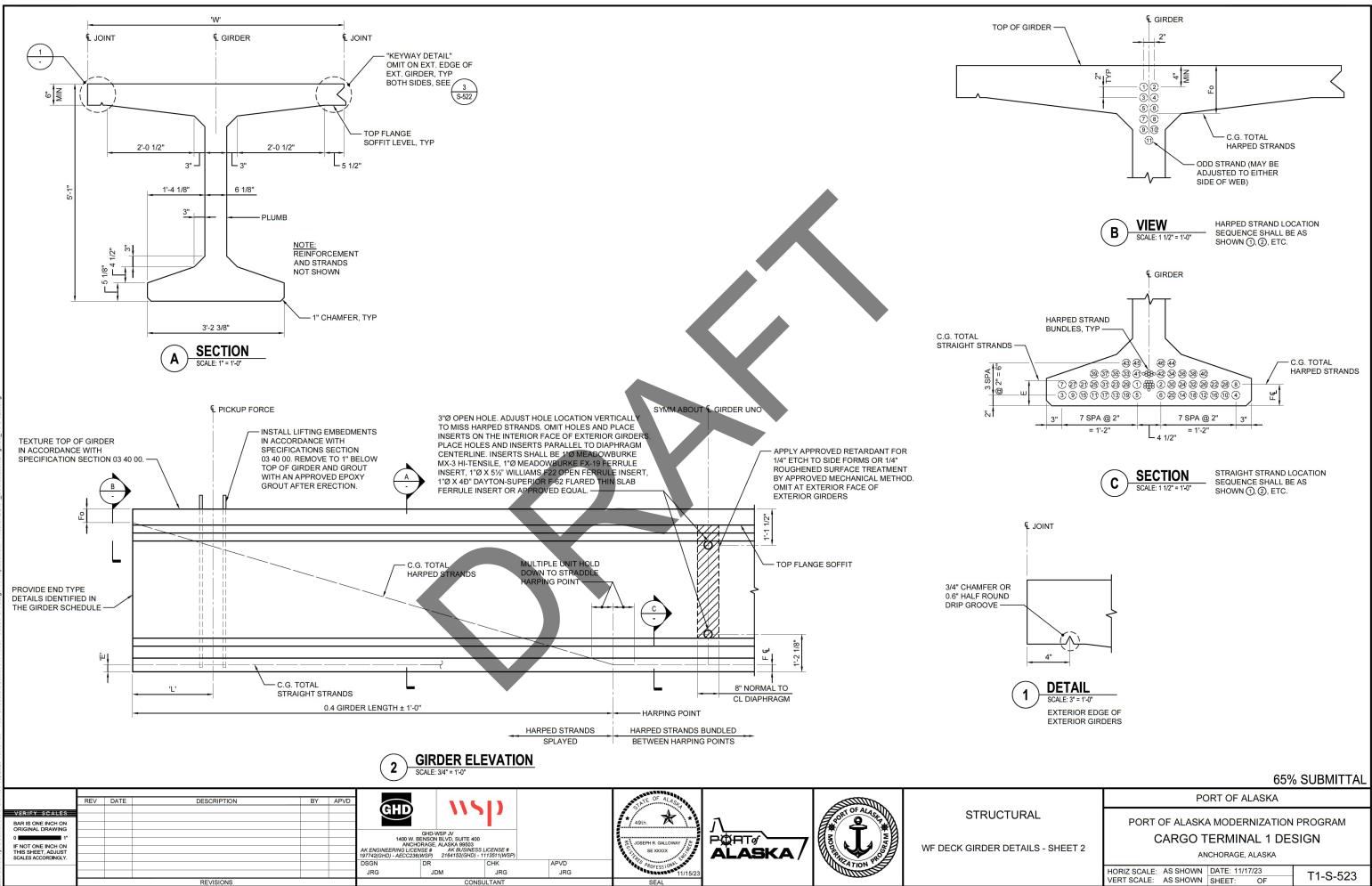


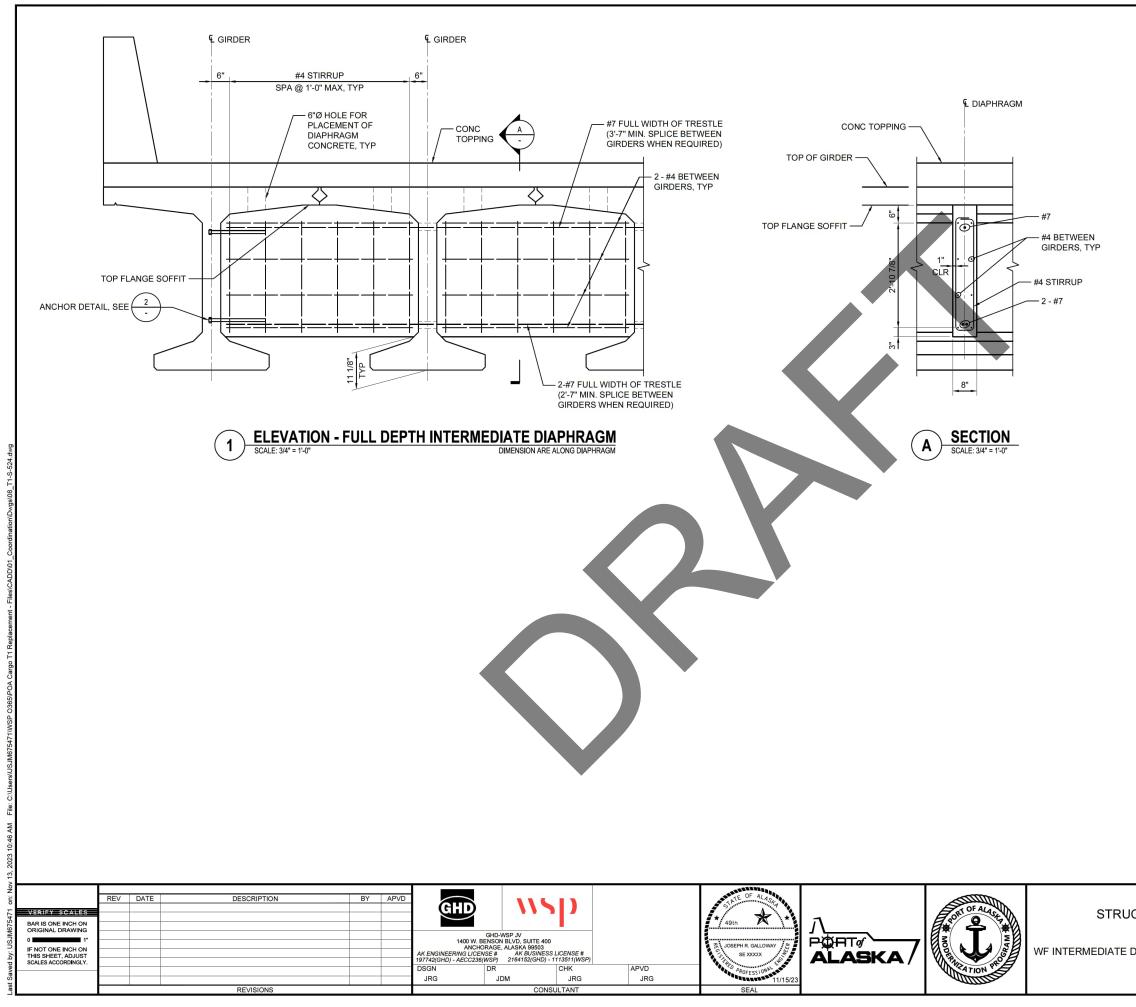
	ID, DESCRIPTION, AND QUANTITY				PAN		SIONS				PRESTRESS		TOP MILD	STEEL REINFO	ORCEMENT		SHEAR RE	INFORCEME	ENT
ID. No	. DESCRIPTION	QUANTITY	NOMINAL LENGTH (FT)	PANEL LENGTH (FT)	NOMINAL WIDTH (FT)	ACTUAL WIDTH (FT)	PANEL THICKNESS (FT)	OFFSET @ 'ME' (FT)	OFFSET @ 'UME' (FT)	NUMBER OF 0.6 INCH DIA STRANDS	PRESTRESS FORCE AT RELEASE (KIPS)	EFFECTIVE PRESTRESS FORCE (kN)	BAR SIZE AND NUMBER	PROJECT ON @ 'ME' (FT)	PROJECT ON @ 'UME' (FT)	STIRRUP SIZE	TYP STIRRUP SPACING (IN)	STIRRUP SPACING @ ENDS (IN)	STIRRUP PROJECTIO (IN)
A1	TYPICAL INTERIOR PANEL	308	39'-0''	34'-0"	5'-5 5/8"	5'-5 1/8"	1'-6"	2'-4"	2'-4"	14	656	492	4 - #7	1'-2"	1'-2"	#4	8"	4"	6"
A1D	TYPICAL INTERIOR PANEL WITH DRAIN	22	39'-0''	34'-0"	5'-5 5/8"	5'-5 1/8"	1'-6"	2'-4"	2'-4"	14	656	492	4 - #7	1'-2"	1'-2"	#4	8"	4"	6"
A2	ADJACENT TO TIE DOWN	х	39'-0''	34'-0"	5'-5 5/8"	5'-5 1/8"	1'-6"	2'-4"	2'-4"	16	750	562	6 - #7	1'-2"	1'-2"	#4	8"	4"	6"
A3	TYPICAL LANDSIDE EDGE PANEL	х	39'-0''	34'-0"	5'-5 5/8"	5'-5 1/8"	1'-6"	2'-4"	2'-4"	16	750	562	6 - #7	1'-2"	1'-2"	#4	8"	4"	6"
A4	LANDSIDE EDGE PANEL AT TIE DOWN	x	39'-0''	34'-0"	5'-5 5/8"	5'-5 1/8"	1'-6"	2'-4"	2'-4"	16	750	562	6 - #7	1'-2"	1'-2"	#4	8"	4"	6"
A5	TYPICAL WATERSIDE EDGE PANEL	x	39'-0''	34'-0"	5'-5 5/8"	5'-5 1/8"	1'-6"	2'-4"	2'-4"	16	750	562	6 - #7	1'-2"	1'-2"	#4	8"	4"	6"
A6	WATERSIDE EDGE PANEL AT TIE DOWN	x																	
A7	AT POTABLE WATER VAULT	2																	
A8	AT SHORE POWER VAULT	4																	
A9	AT CRANE POWER VAULT	2																	
A10	TYPICAL TRANSVERSE OVERHANG WHARF PANEL	6	33'-4"	28'-8"	6'-8"	6'-7 3/4"	1'-6"	2'-4"	2'-4"	16	750	562	6 - #7	1'-2"	1'-2"	#4	8"	4"	6"
A11	AT TIE DOWN AND PLATFORM	x																	
A12	AT TRESTLE CONNECTION	x																	
A12	AT TRESTLE CONNECTION	x																	

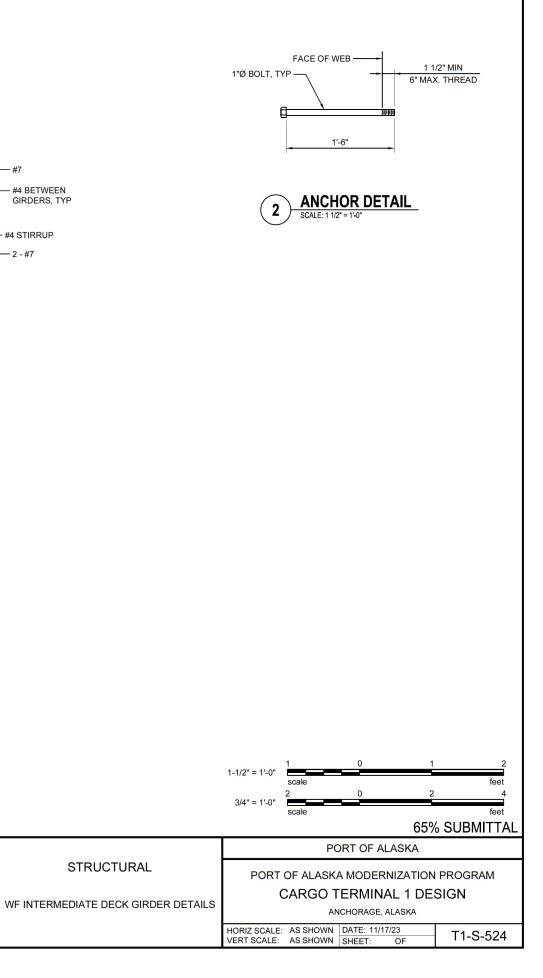
	CARGO TERMINAL 1 DESIGN - TRESTLE PRECAST PRESTRESSED DECK PANEL SCHEDULE																		
ID, DESCRIPTION, AND QUANTITY PANEL DIMENSIONS PRESTRESS TOP MILD STEEL REINFORCEMENT													SHEAR REINFORCEMENT						
ID. No.	DESCRIPTION	QUANTITY	NOMINAL LENGTH (FT)	PANEL LENGTH (FT)	NOMINAL WIDTH (FT)	ACTUAL WIDTH (FT)	PANEL THICKNESS (FT)	OFFSET @ 'ME' (FT)		NUMBER OF 0.6 INCH DIA STRANDS	PRESTRESS FORCE AT RELEASE (KIPS)	EFFECTIVE PRESTRESS FORCE (kN)	BAR SIZE AND NUMBER	PROJECT ON @ 'ME' (FT)	PROJECT ON @ 'UME' (FT)	STIRRUP SIZE	TYP STIRRUP SPACING (IN)		STIRRUP PROJECTION (IN)
B1	TYPICAL INTERIOR	16																	
B2	TYPICAL EDGE	8																	
В3	INTERIOR AT JOINT	8																	
m	EDGE AT JOINT	4																	
	·	•	•					•		•					•	•	•		,

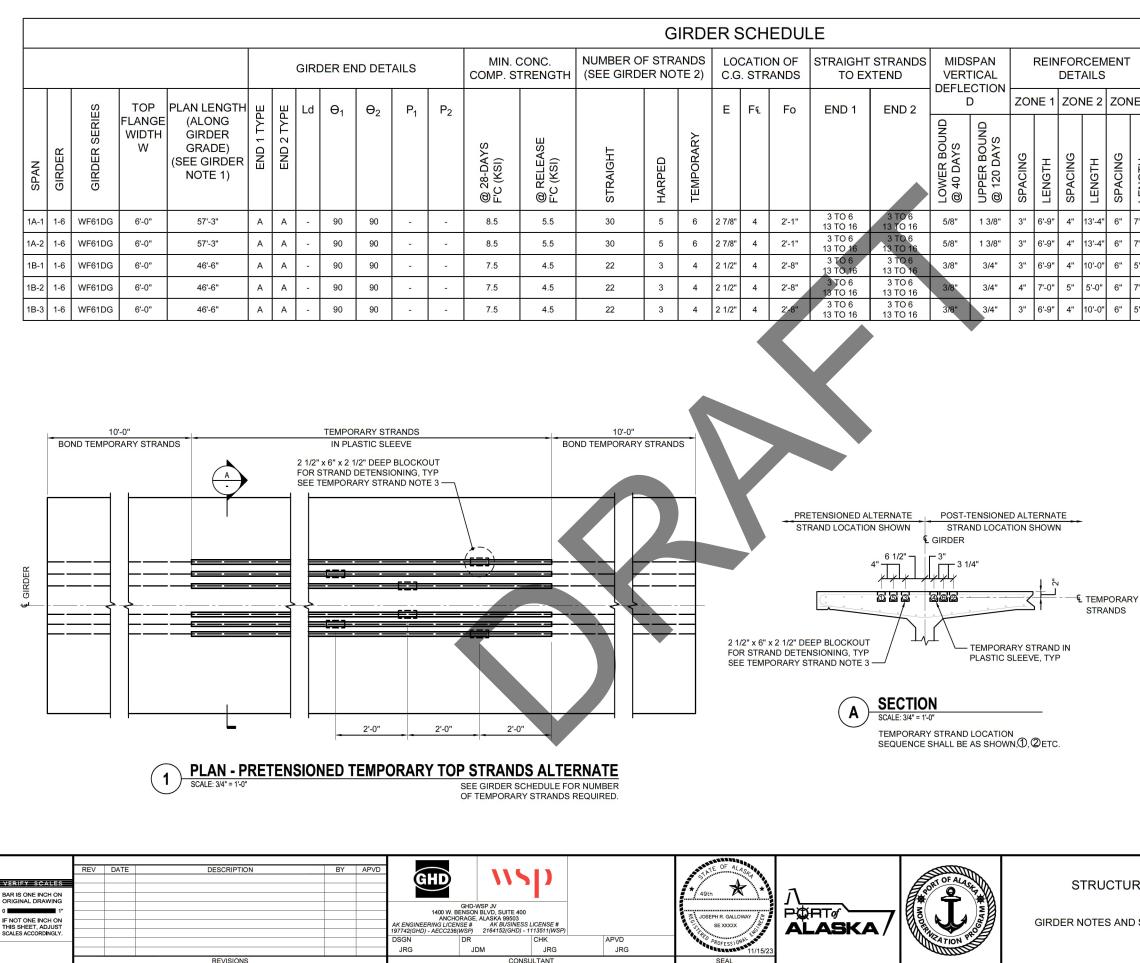
														65% SUBMITTAL
	REV	DATE	D	ESCRIPTION	BY	APVD		116	D		THE OF ALAST	ALTERIC		PORT OF ALASKA
VERIEY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING 0 1" 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.						Ак 1971 DS	ANCHORAGE ENGINEERING LICENSE # 742(GHD) - AECC236(WSP) GN DR	VSP JV BLVD, SUITE 400 ALASKA 99503 AK BUSINESS. 2164152(GHD) - 1	LICENSE # 113511(WSP) CHK JRG	APVD JRG	- 49th 5	ACCUPACION OF ALADAR	STRUCTURAL WHARF & TRESTLE PRECAST DECK PANEL SCHEDULE	HORIZ SCALE: AS SHOWN DATE: 11/17/23
				REVISIONS				CONSU	JLTANT		SEAL			VERT SCALE: AS SHOWN SHEET: OF











NT		SHI	PPIN	ig ai	ND H	ANDLING DETA	AILS
ZON	NE 3	MAXIMUM MIDSPAN	L	L ₁	L ₂	Kə MINIMUM	Wcc MINIMUM
SPACING	LENGTH	VERTICAL DEFLECTION AT SHIPPING			L	SHIPPING SUPPORT ROTATIONAL SPRING CONSTANT (KIP-IN/RAD)	SHIPPING SUPPORT CTR-TO-CTR. WHEEL SPACING
6"	7'-6"	1 1/4"	3'-0"	<mark>5'-1"</mark>	5'-1"	40,000	6'-0"
6"	7'-6"	1 1/4"	3'-0"	<mark>5'-1</mark> "	5'-1"	40,000	6'-0"
6"	5'-6"	3/4"	3'-0"	5'-1"	5'-1"	40,000	6'-0"
6"	7'-0"	3/4"	3'-0"	5'-1"	5'-1"	40,000	6'-0"
6"	5'-6"	3/4"	3'-0"	5'-1"	5'-1"	40,000	6'-0"

GIRDER NOTES

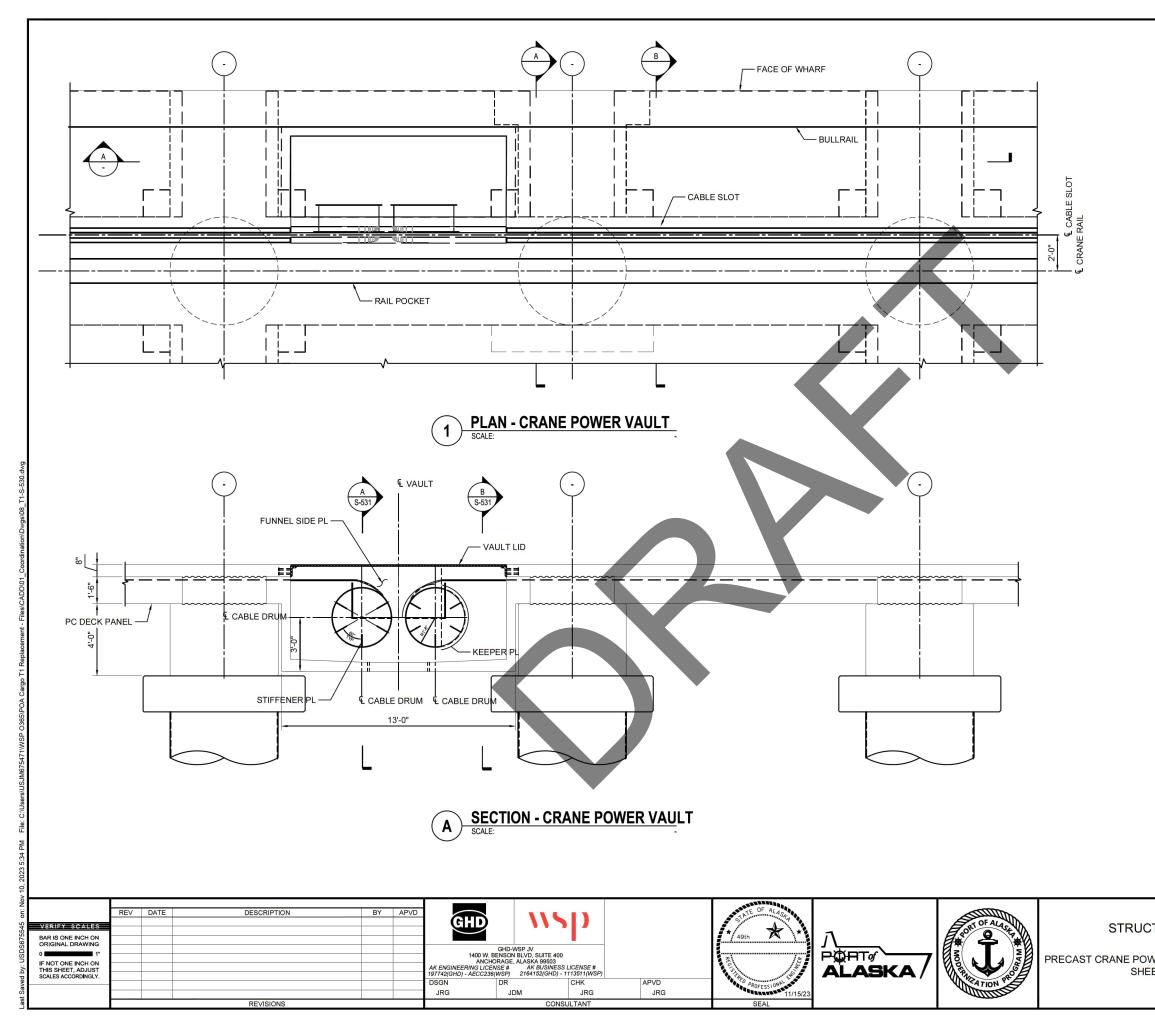
- 1. PLAN LENGTH SHALL BE INCREASED AS NECESSARY TO COMPENSATE FOR SHORTENING DUE TO PRESTRESS AND SHRINKAGE.
- 2. ALL PRETENSIONED AND TEMPORARY STRANDS SHALL BE 0.6Ø ASSHTO M203 GRADE 270 LOW RELAXATION STRANDS, JACKED TO 202.5 KSI (43.94 KIPS PER STRAND).
- 3. STRUCTURAL STEEL SHAPES AND ASSEMBLIES SHALL BE ASTM A36, THEY SHALL BE PAINTED WITH A PRIMER COAT IN ACCORDANCE WITH SPECIFICATION SECTION 03 40 00. WELD TIES SHALL BE PAINTED WITH A FIELD PRIMER COAT OF AN ORGANIC ZINC PAINT AFTER FIELD WELDING

TEMPORARY STRAND NOTES:

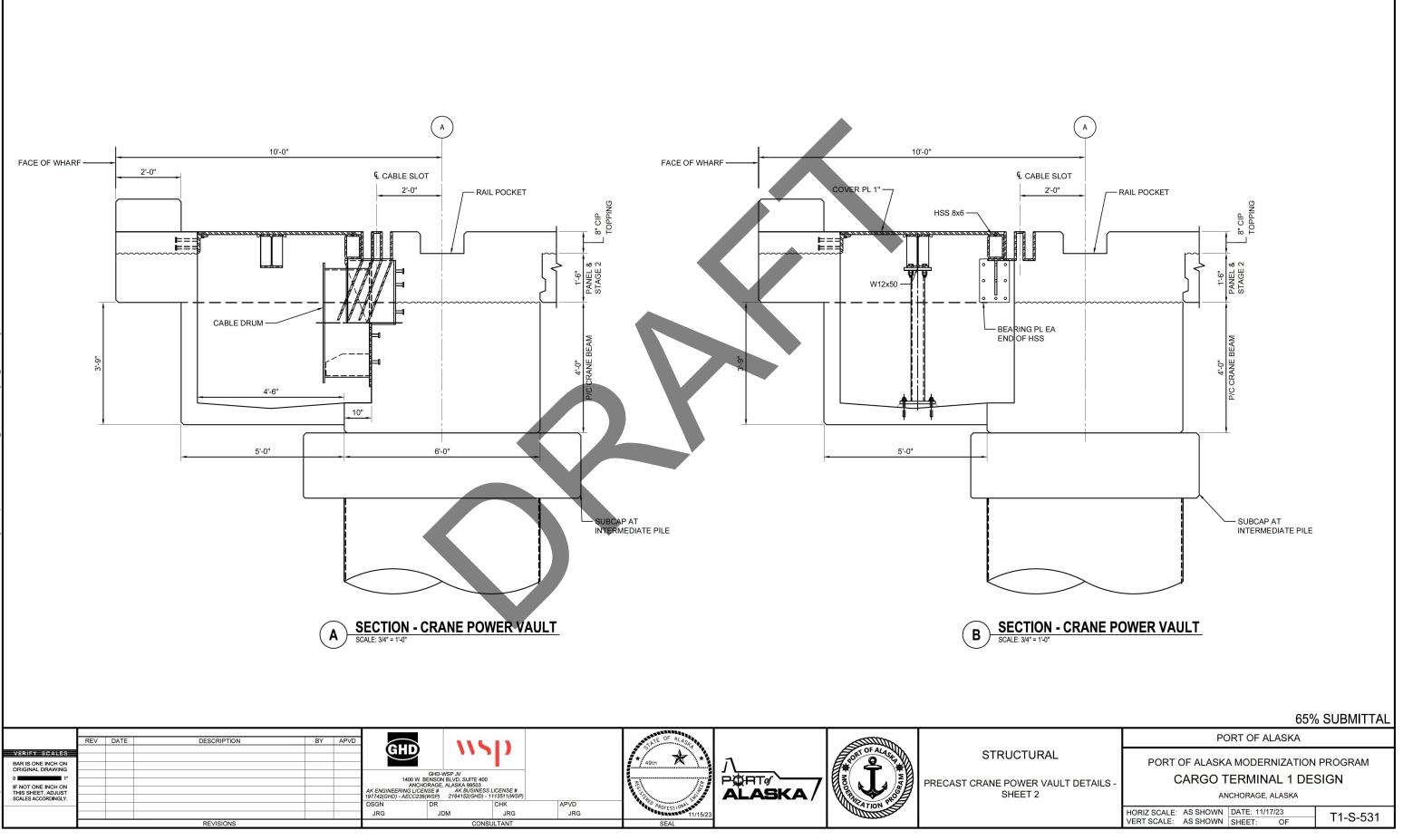
- TEMPORARY TOP STRANDS SHALL BE EITHER PRETENSIONED OR 1. POST-TENSIONED IN ACCORDANCE WITH STANDARD SPECIFICATION SECTION 03 40 00.
- 2. CUT TEMPORARY STRANDS IN NUMBERED SEQUENCE SHOWN IN SECTION 'A', THIS SHEET
- FORM BLOCKOUT WITH EXPANDED POLYSTYRENE. REMOVE 3 POLYSTYRENE JUST PRIOR TO CUTTING THE TEMPORARY STRANDS AND PREVENT MOISTURE FROM ENTERING THE BLOCKOUT, TYP.

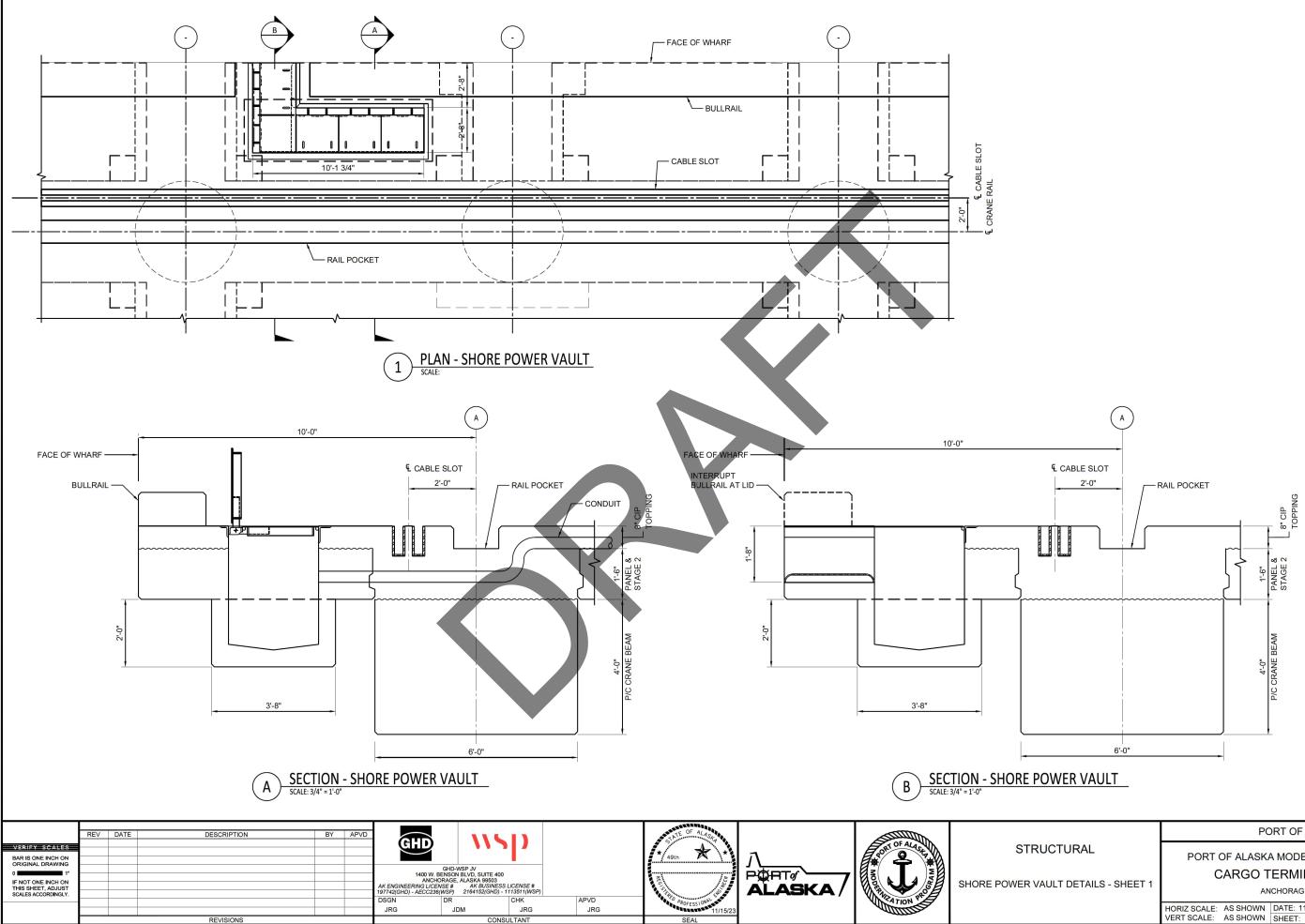
	007	0 SUBIVITTAL
	PORT OF ALASKA	
ΓURAL	PORT OF ALASKA MODERNIZATION	PROGRAM
AND SCHEDULE	CARGO TERMINAL 1 DE	SIGN
AND SCHEDULE	ANCHORAGE, ALASKA	
	HORIZ SCALE: AS SHOWN DATE: 11/17/23 VERT SCALE: AS SHOWN SHEET: OF	T1-S-525

650/ CLIDMITTAL

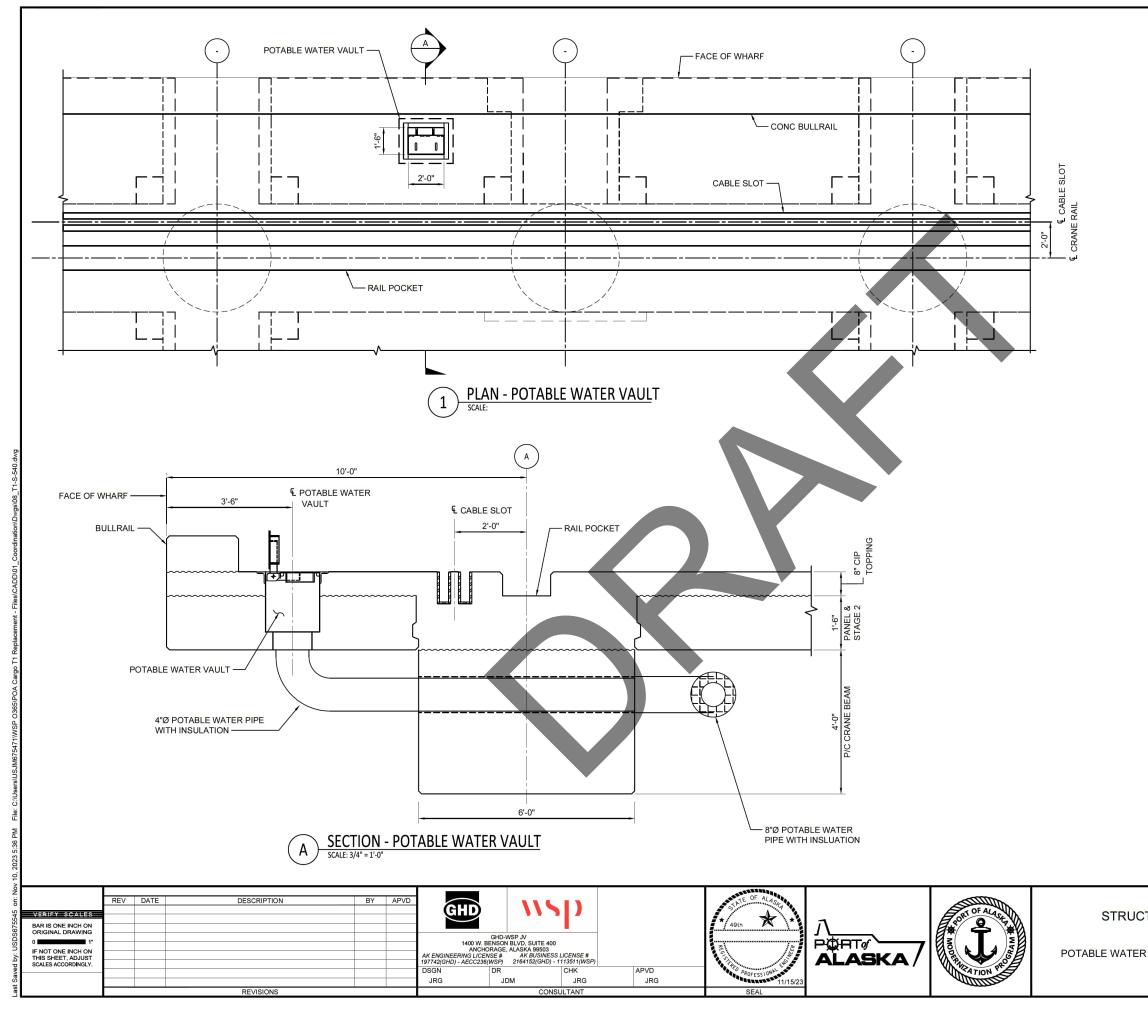


	65%	6 SUBMITTAL
	PORT OF ALASKA	
RUCTURAL	PORT OF ALASKA MODERNIZATION	PROGRAM
POWER VAULT DETAILS -	CARGO TERMINAL 1 DE	SIGN
SHEET 1	ANCHORAGE, ALASKA	
	HORIZ SCALE:AS SHOWNDATE: 11/17/23VERT SCALE:AS SHOWNSHEET:OF	T1-S-530

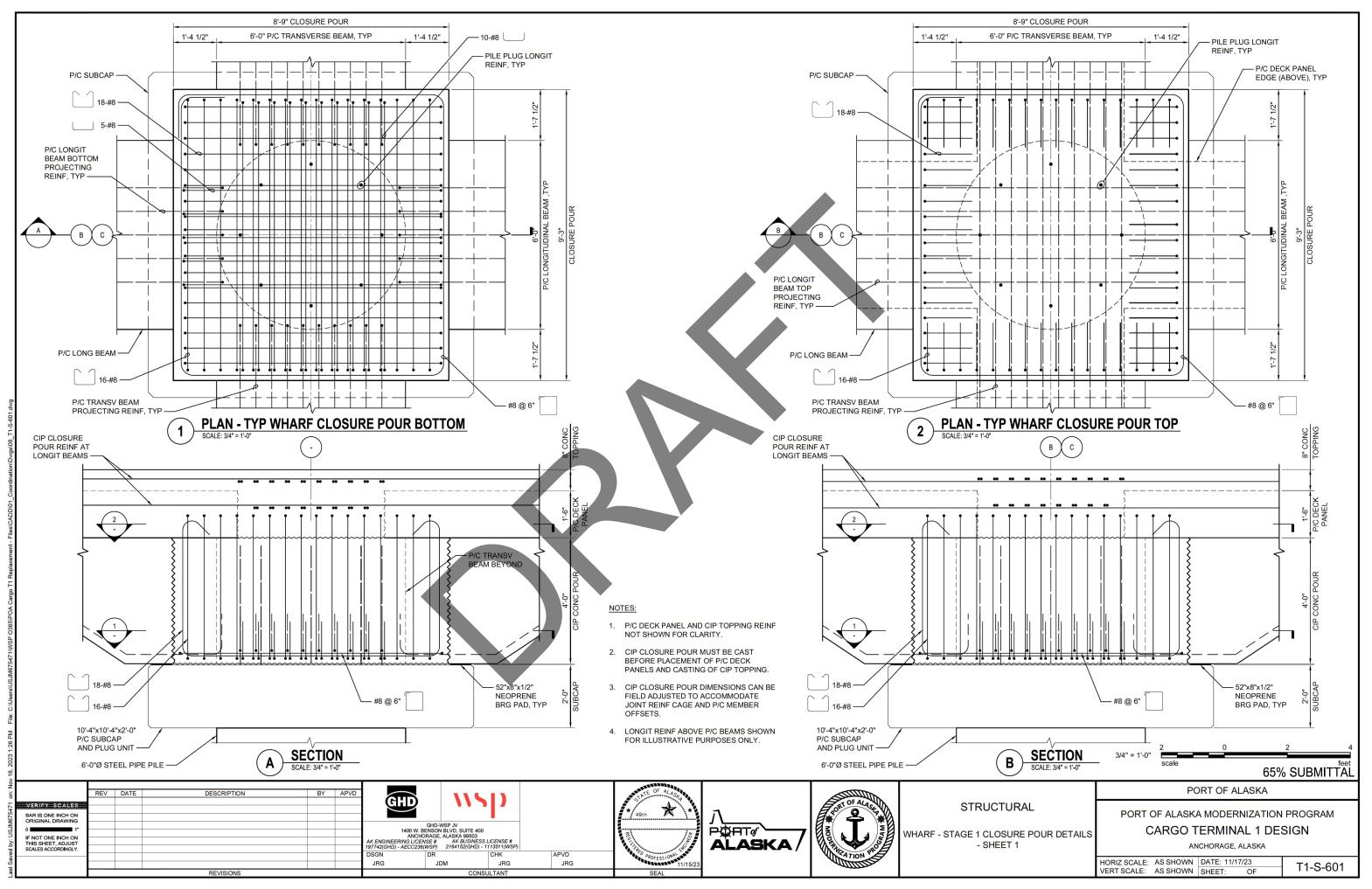


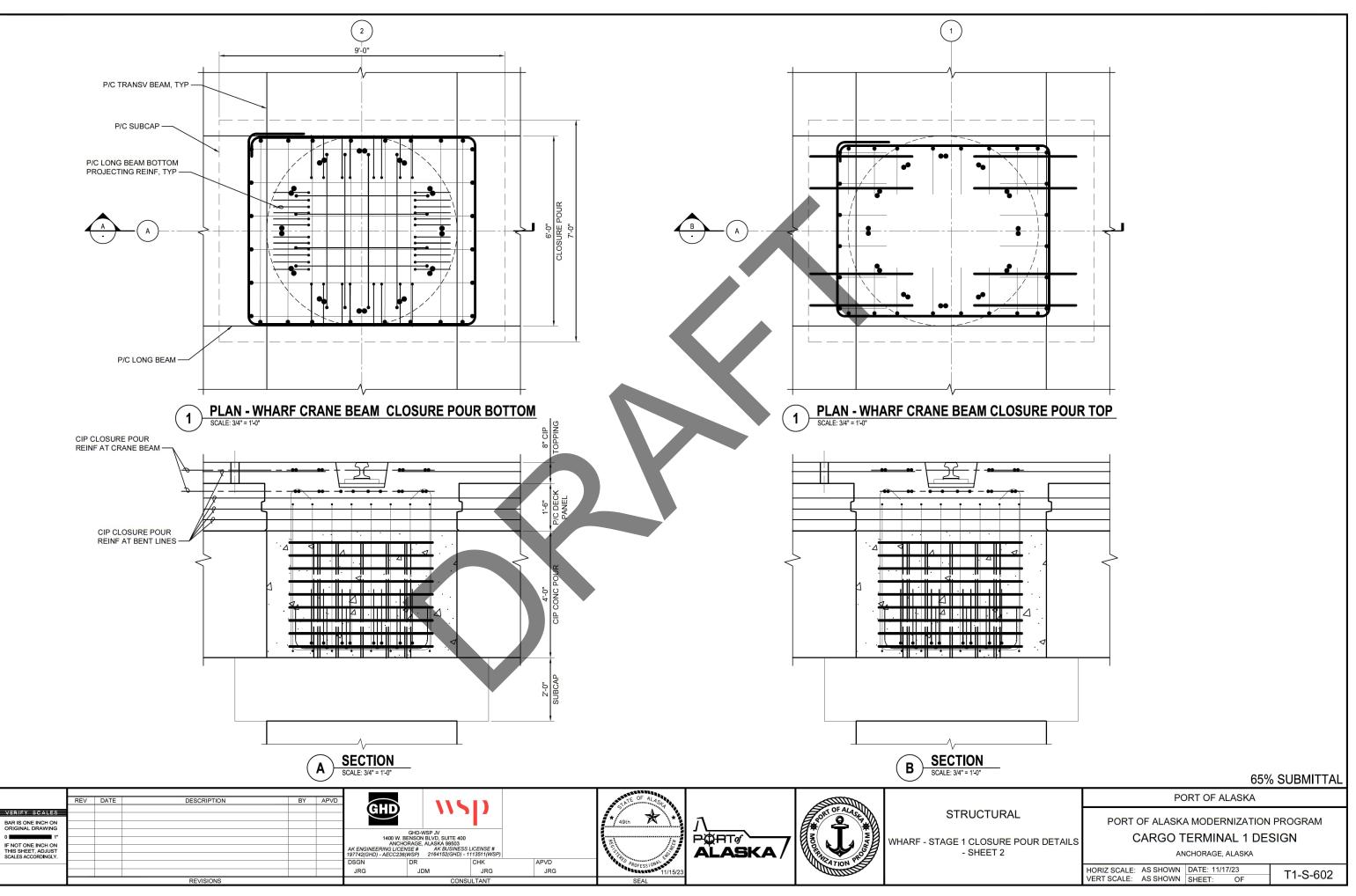


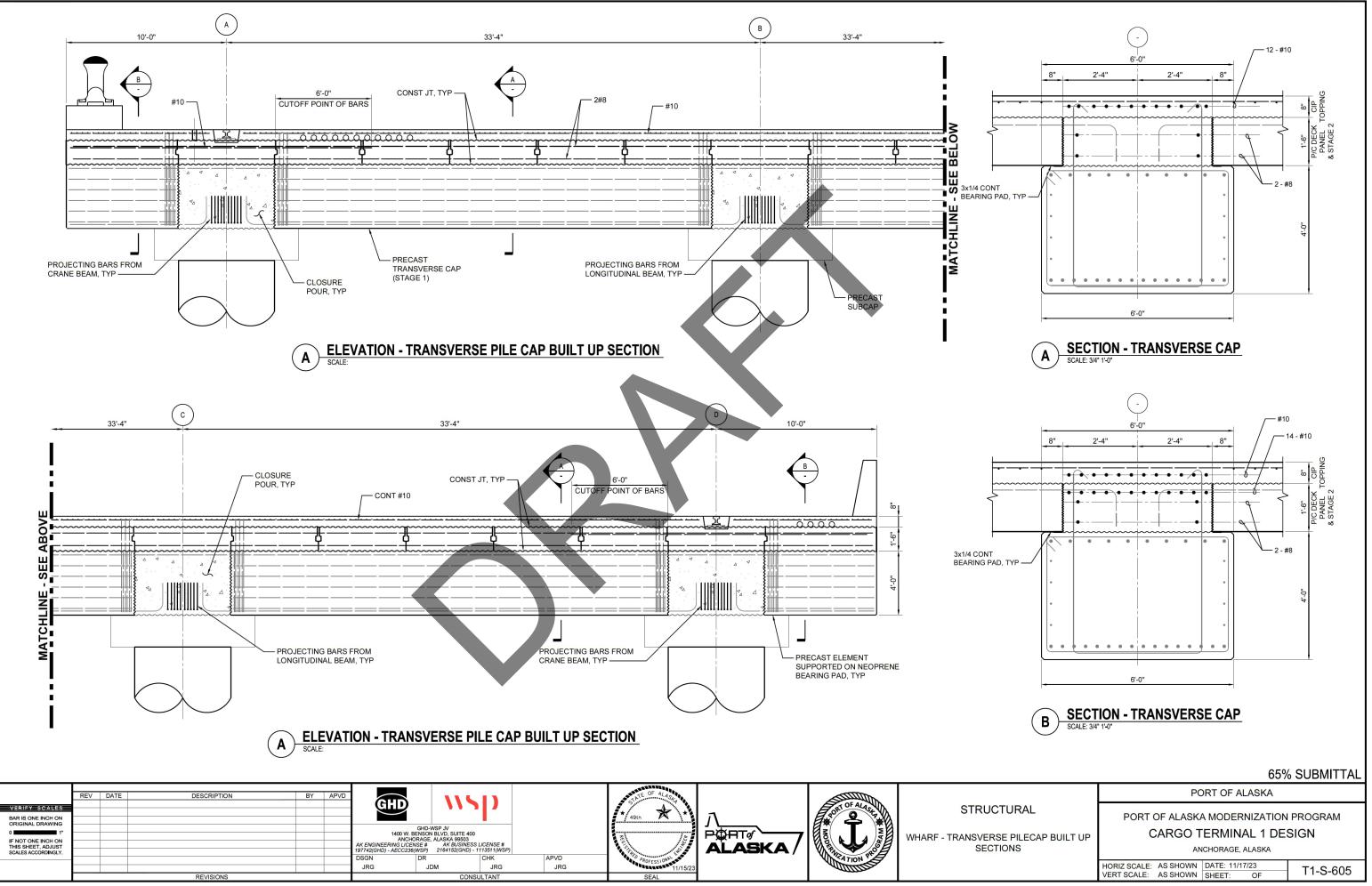
	65%	6 SUBMITTAL
	PORT OF ALASKA	
TURAL	PORT OF ALASKA MODERNIZATION	PROGRAM
	CARGO TERMINAL 1 DE	SIGN
_T DETAILS - SHEET 1	ANCHORAGE, ALASKA	
	HORIZ SCALE: AS SHOWN DATE: 11/17/23 VERT SCALE: AS SHOWN SHEET: OF	T1-S-535



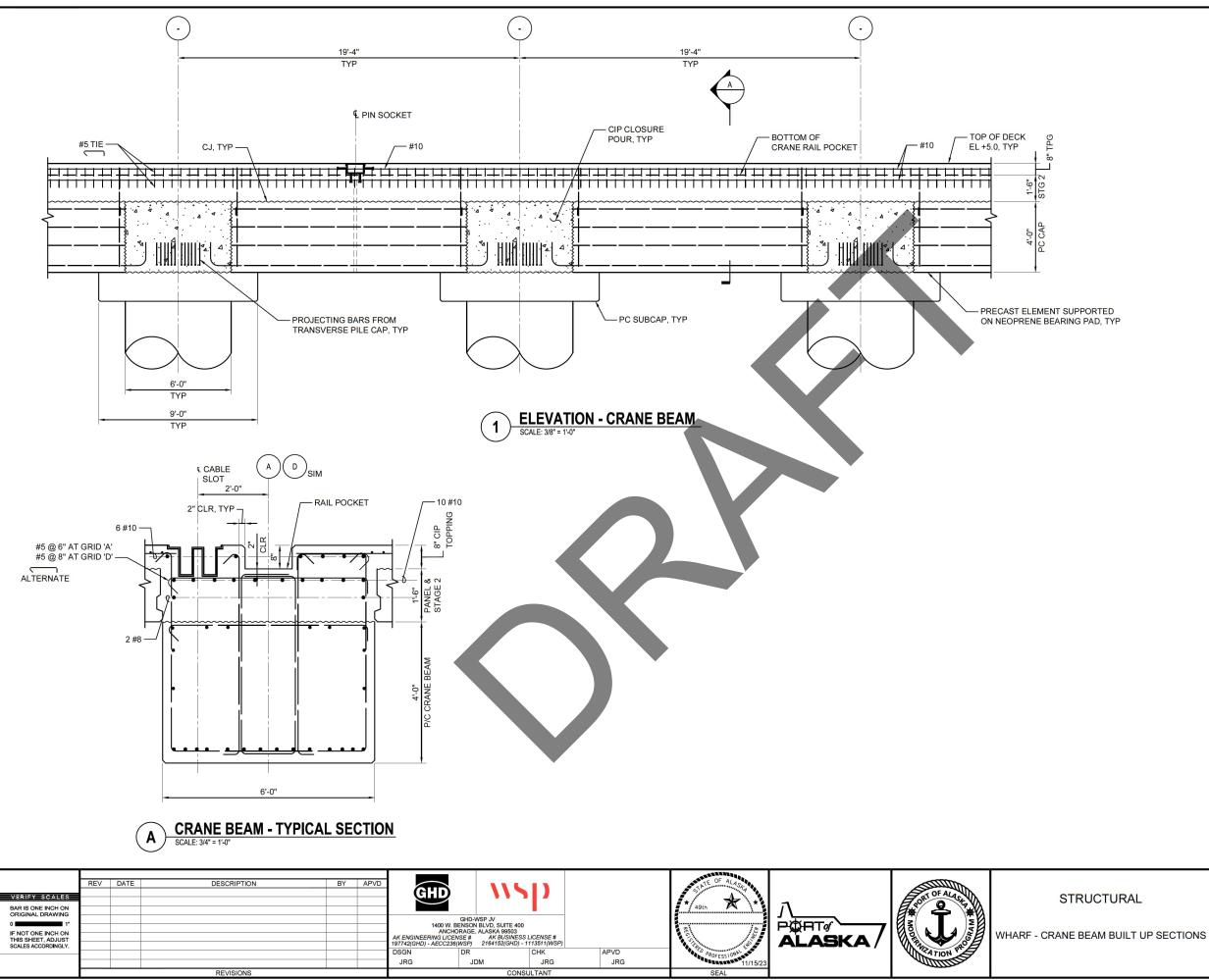
	65%	6 SUBMITTAL
	PORT OF ALASKA	
TURAL	PORT OF ALASKA MODERNIZATION	PROGRAM
R VAULT DETAILS	CARGO TERMINAL 1 DE	SIGN
VAULT DETAILS	ANCHORAGE, ALASKA	
	HORIZ SCALE: AS SHOWN DATE: 11/17/23 VERT SCALE: AS SHOWN SHEET: OF	T1-S-540





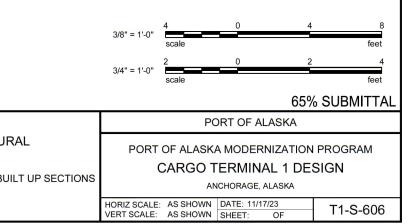


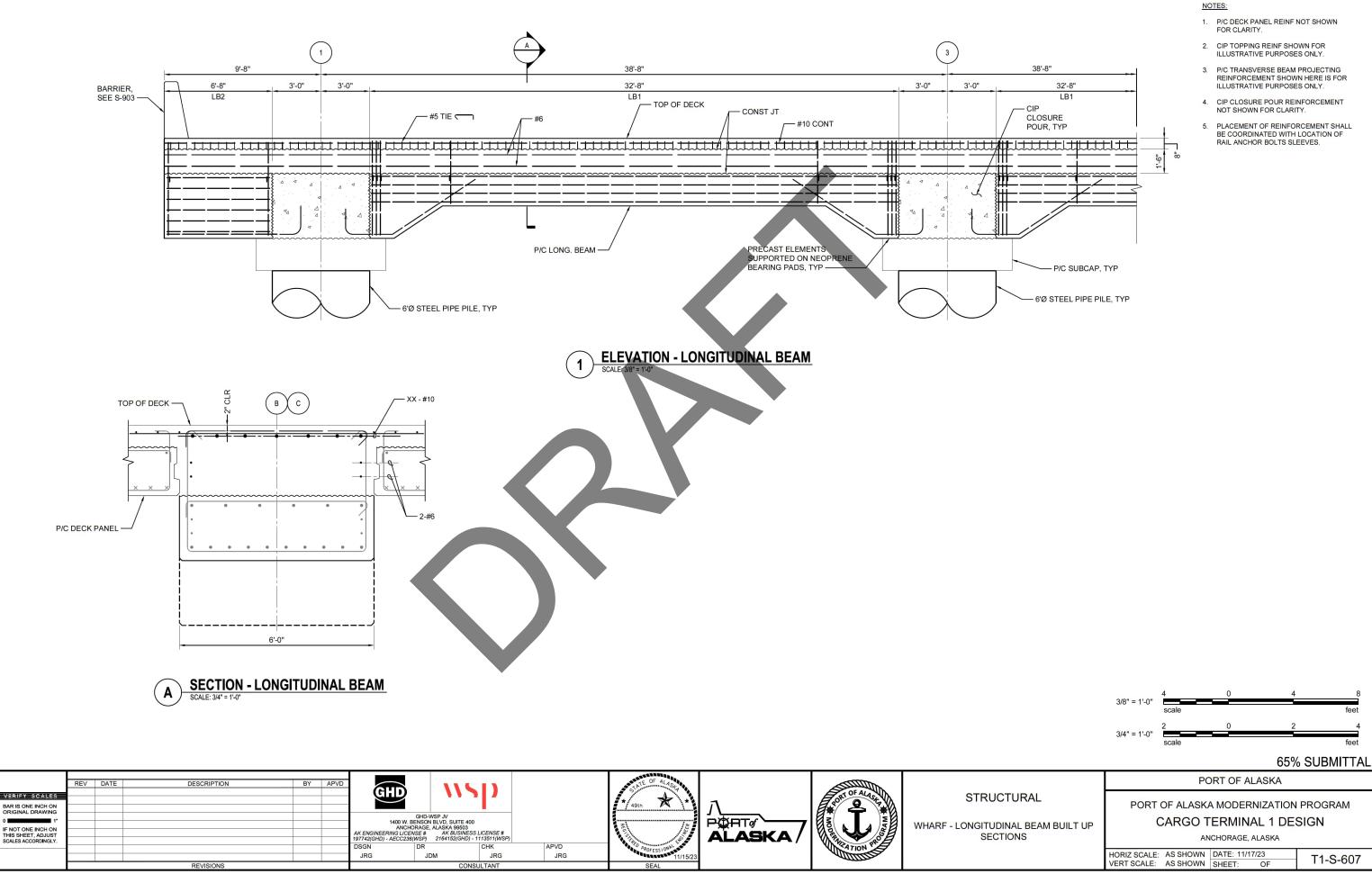
d by: USDS675545 on: Nov 11, 2023 10:55 PM File: C:Users/USJM675471WSP 0365/POA Cargo T1 Replacement - Files/CADD/01_Coordinati



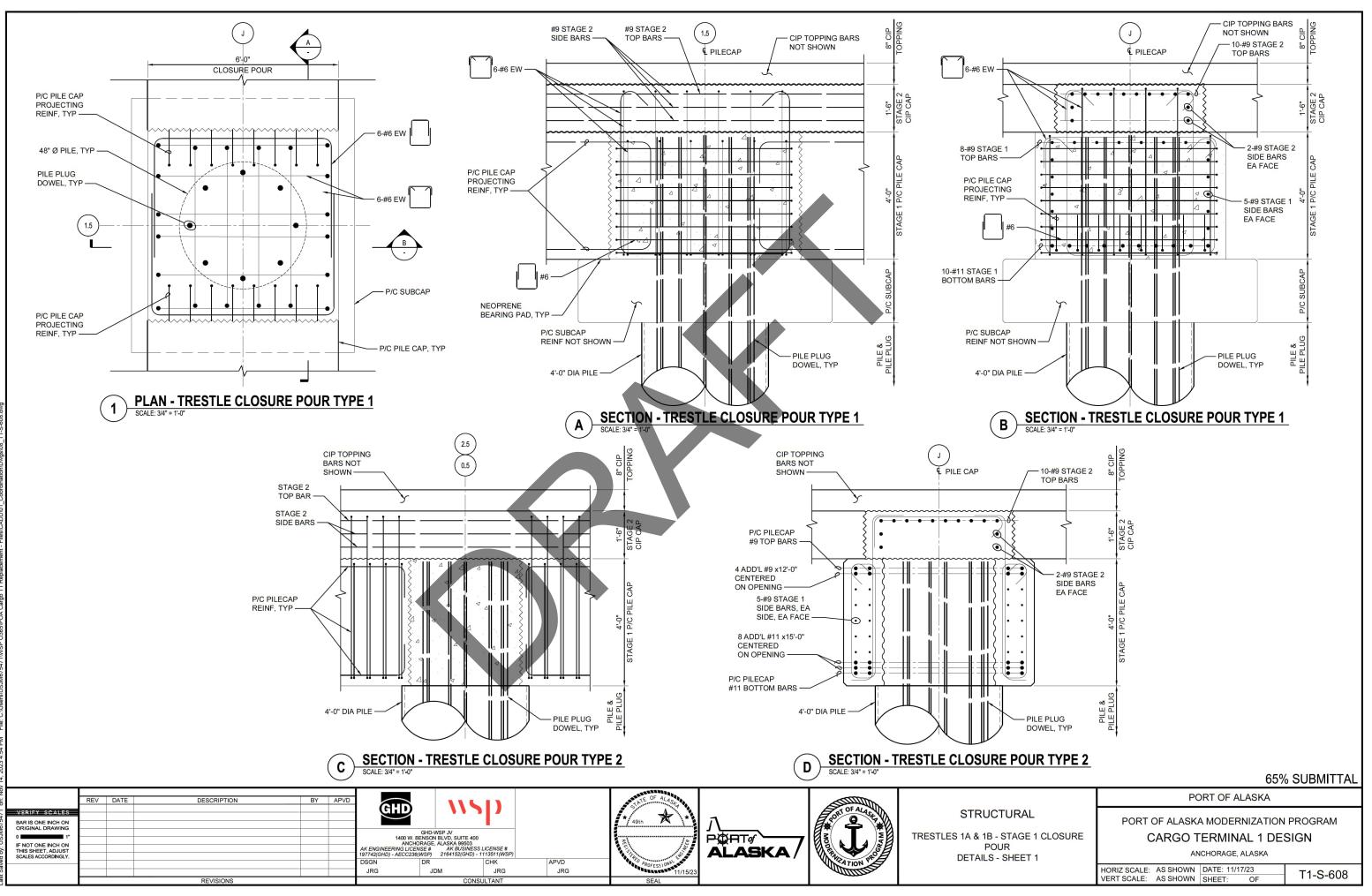
NOTES:

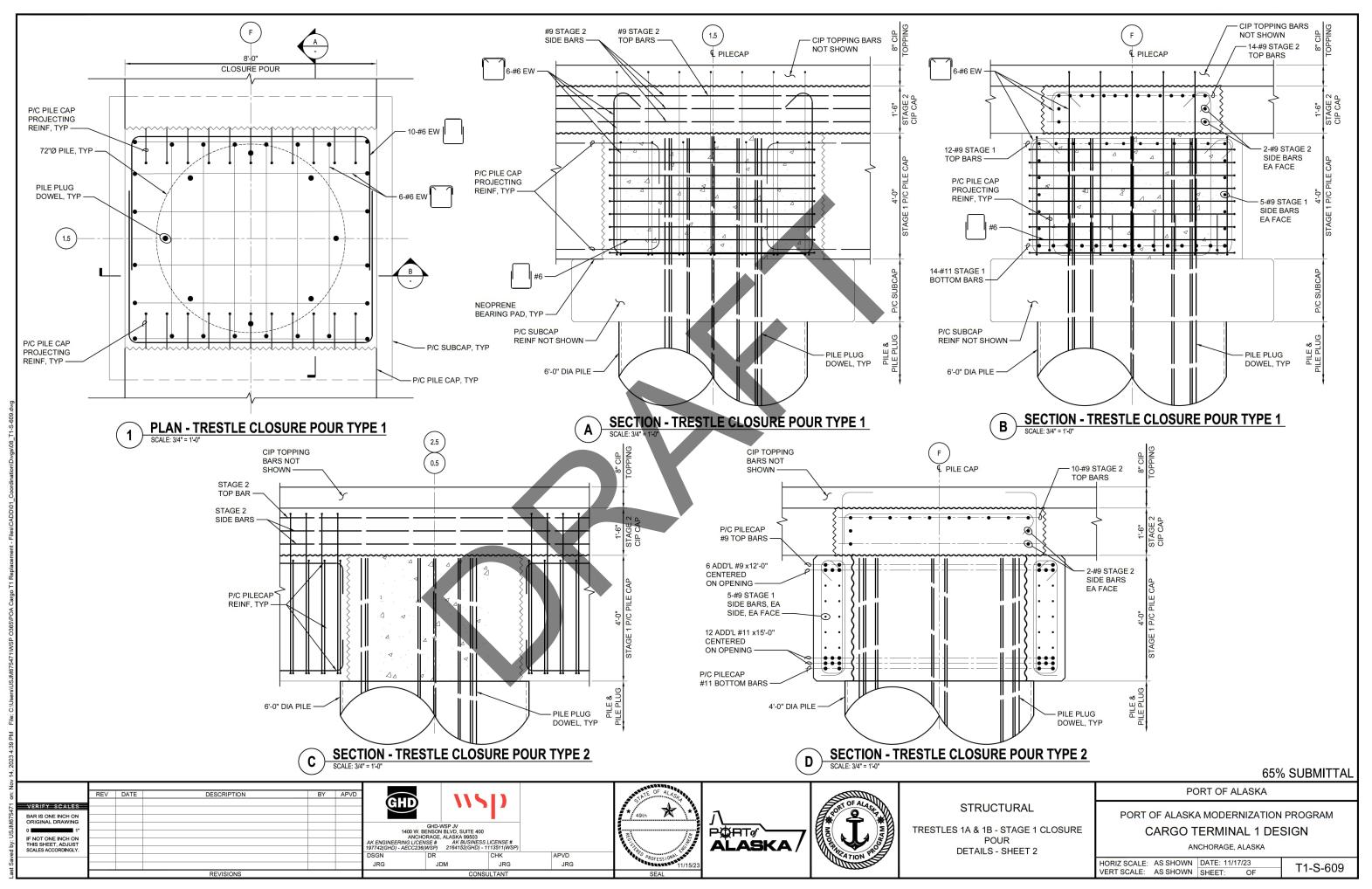
- 1. P/C DECK PANEL REINF NOT SHOWN FOR CLARITY.
- 2. CIP TOPPING REINF SHOWN FOR ILLUSTRATIVE PURPOSES ONLY.
- 3. P/C TRANSVERSE BEAM PROJECTING REINFORCEMENT SHOWN HERE IS FOR ILLUSTRATIVE PURPOSES ONLY.
- 4. CIP CLOSURE POUR REINFORCEMENT NOT SHOWN FOR CLARITY.
- 5. PLACEMENT OF REINFORCEMENT SHALL BE COORDINATED WITH LOCATION OF RAIL ANCHOR BOLTS SLEEVES.

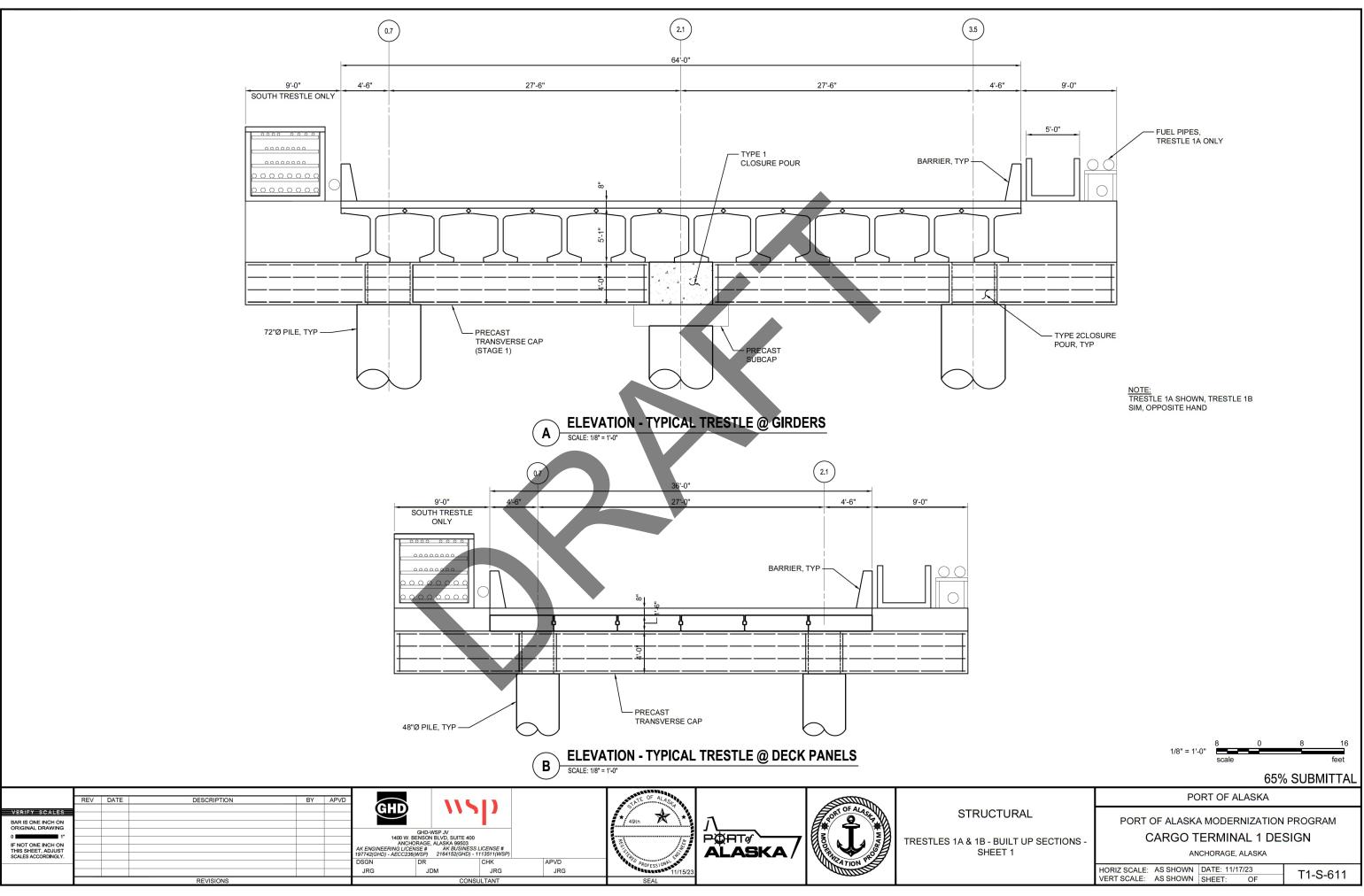


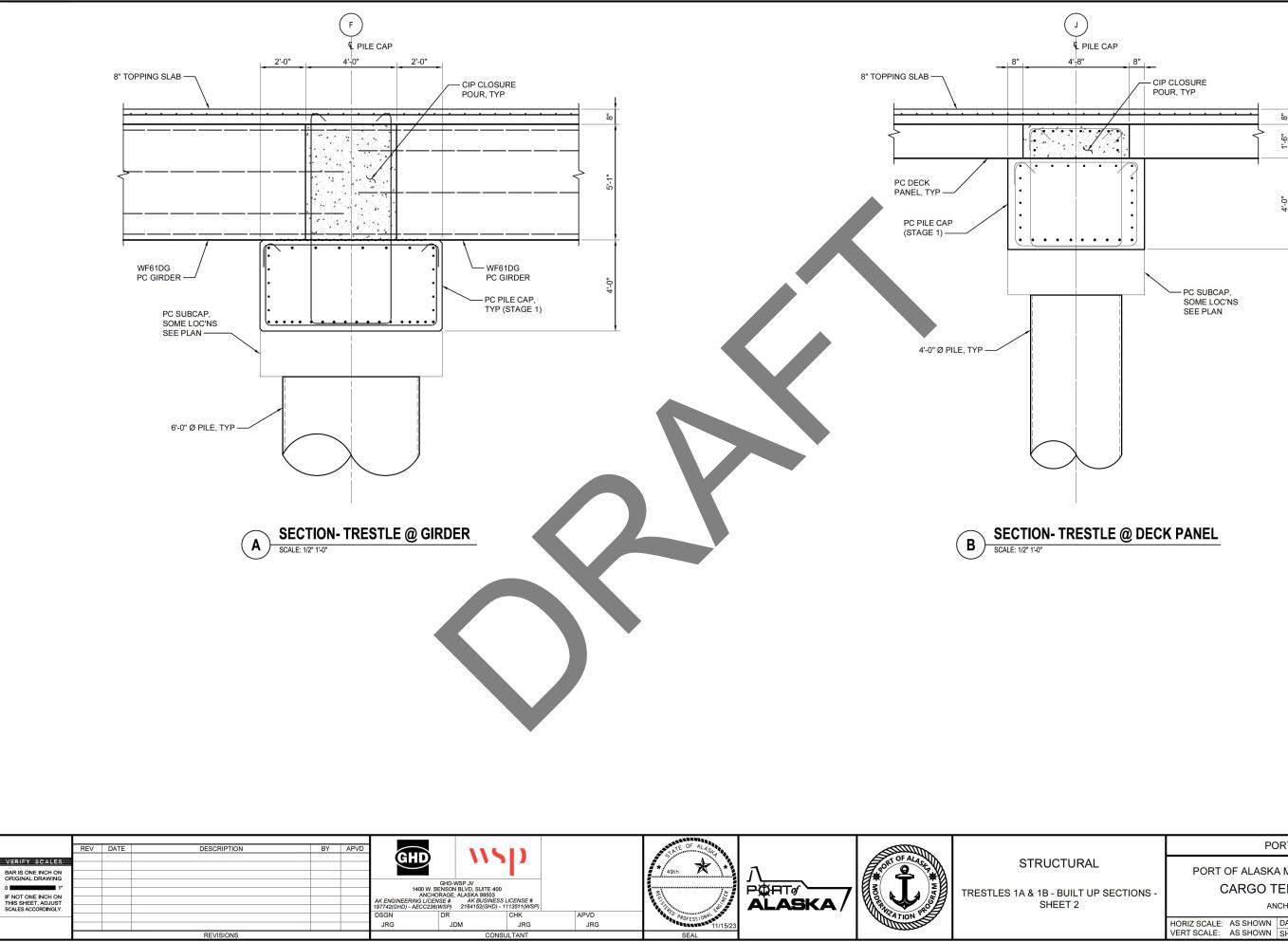






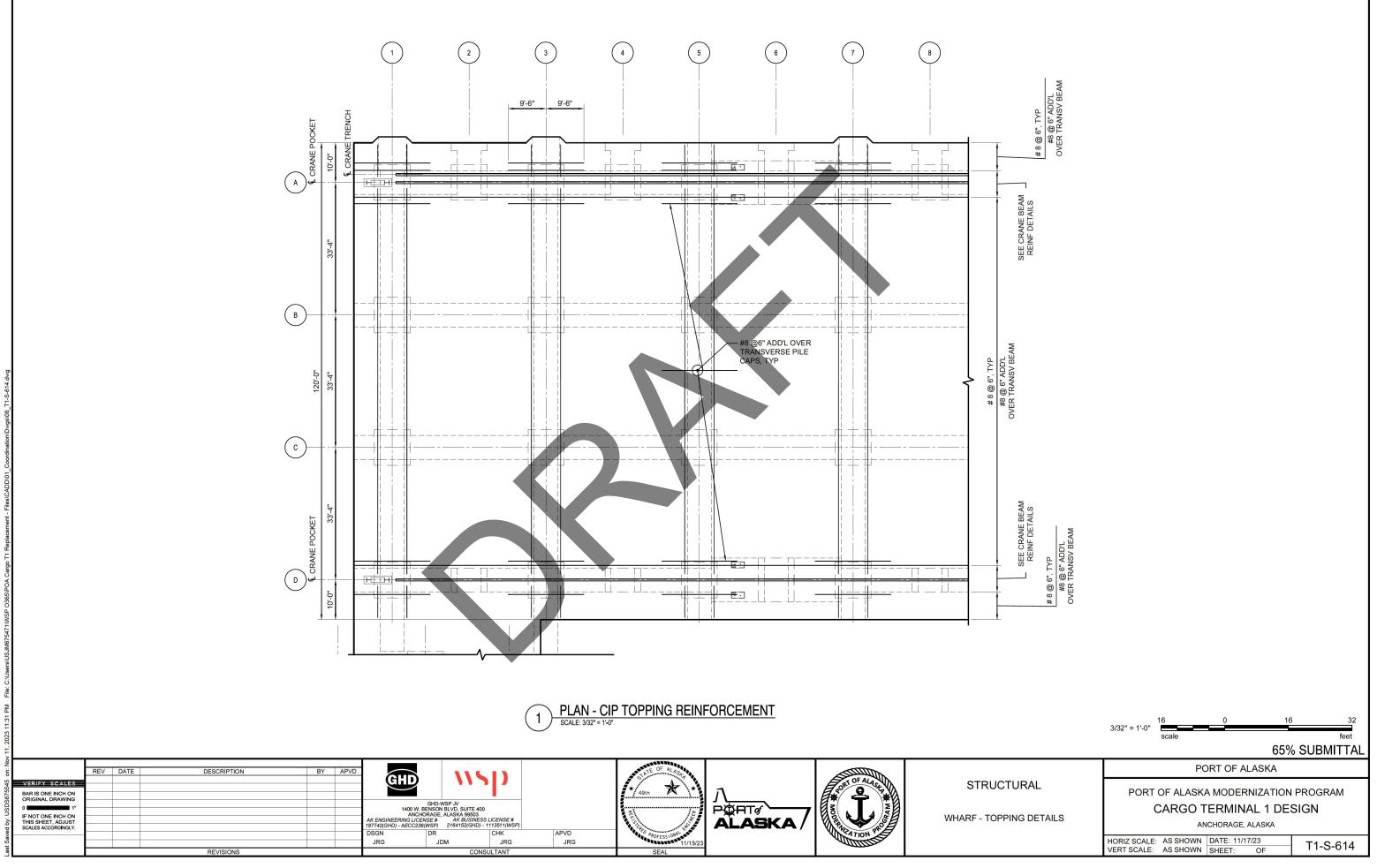


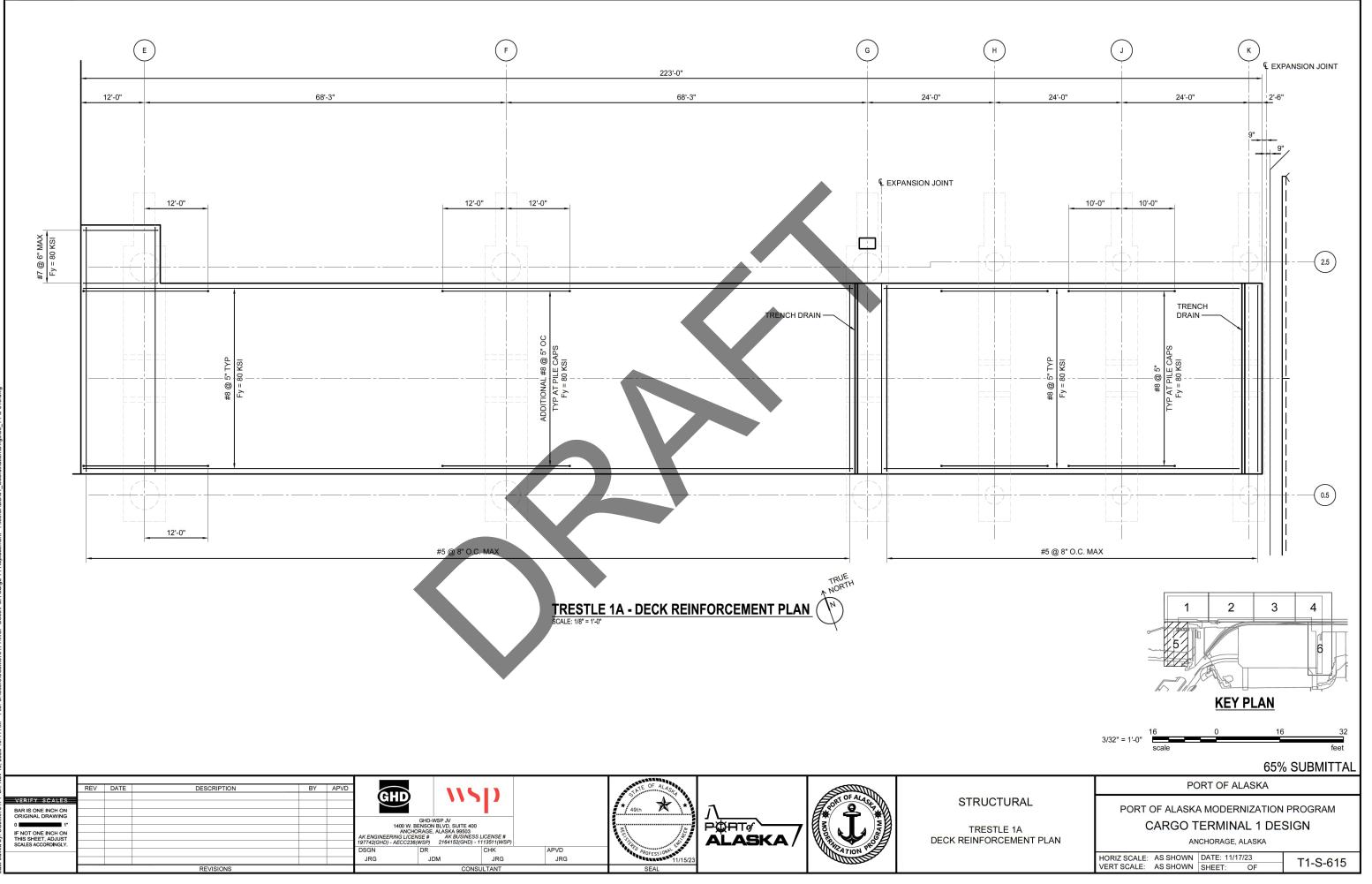


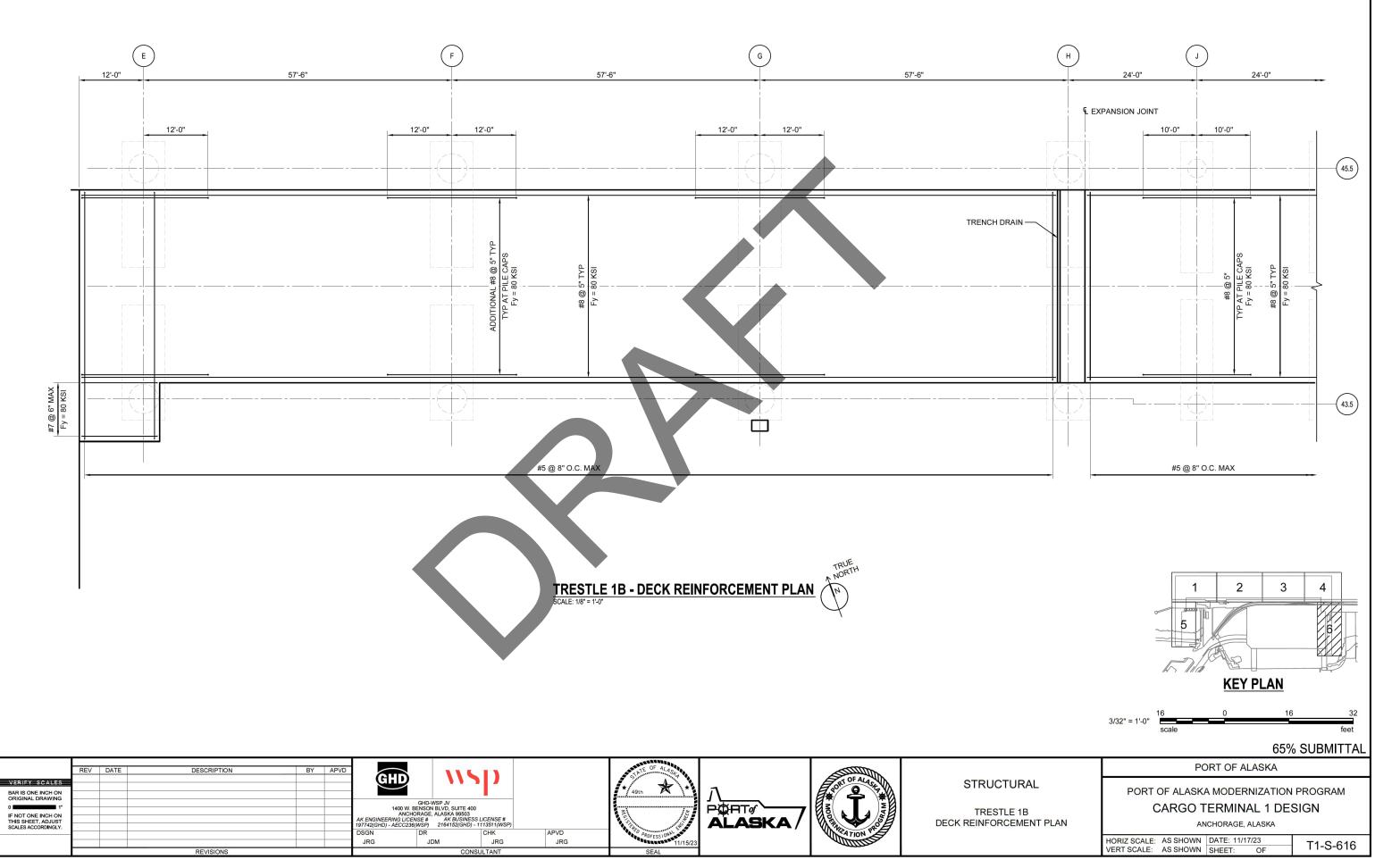


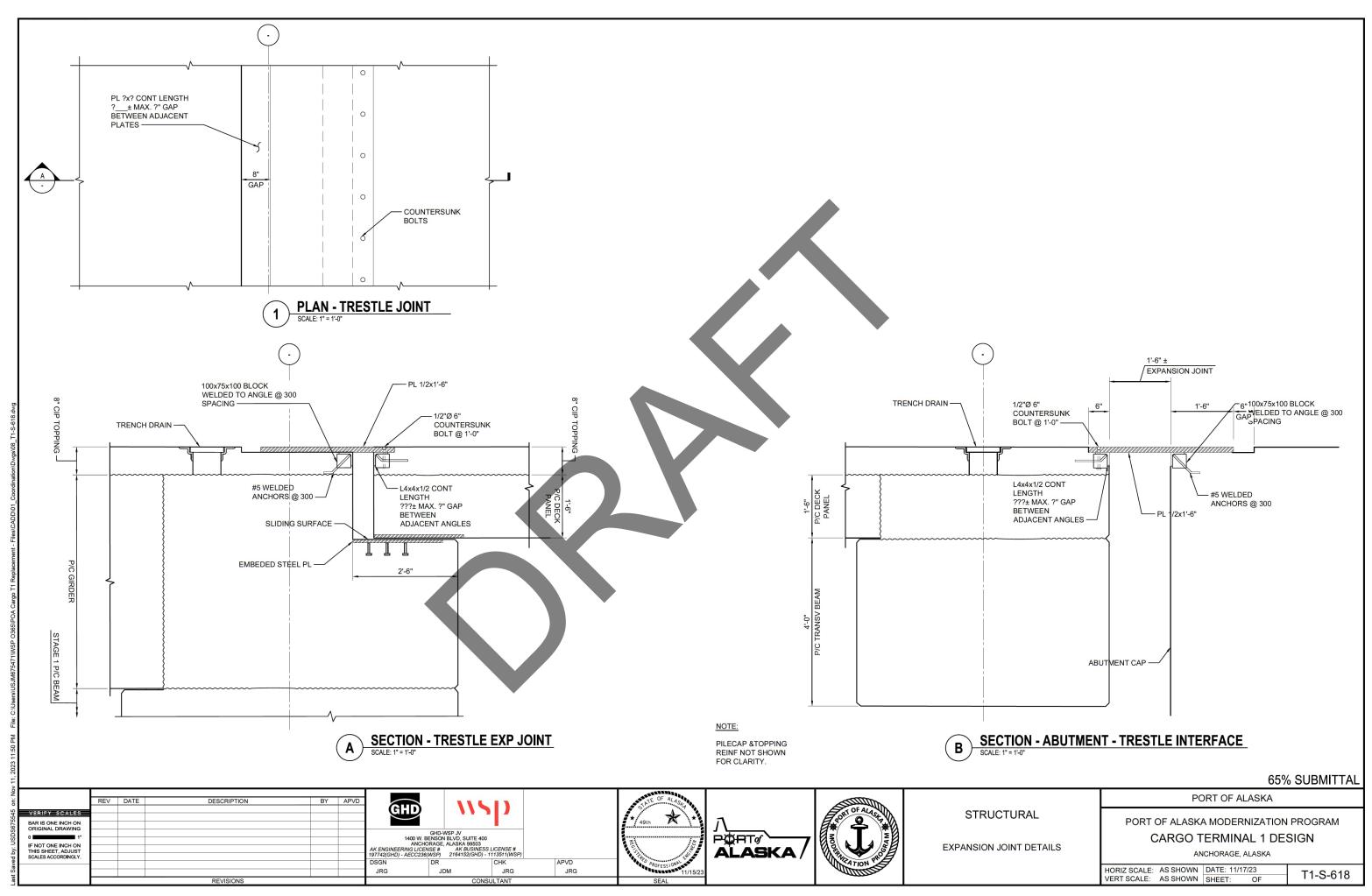
00% 30DIVITT					
	PORT OF ALASKA				
TURAL	PORT OF ALASKA MODERNIZATION PROGRAM				
BUILT UP SECTIONS -	CARGO TERMINAL 1 DESIGN				
ET 2	ANCHORAGE, ALASKA				
	HORIZ SCALE: AS SHOWN DATE: 11/17/23 VERT SCALE: AS SHOWN SHEET: OF	T1-S-612			

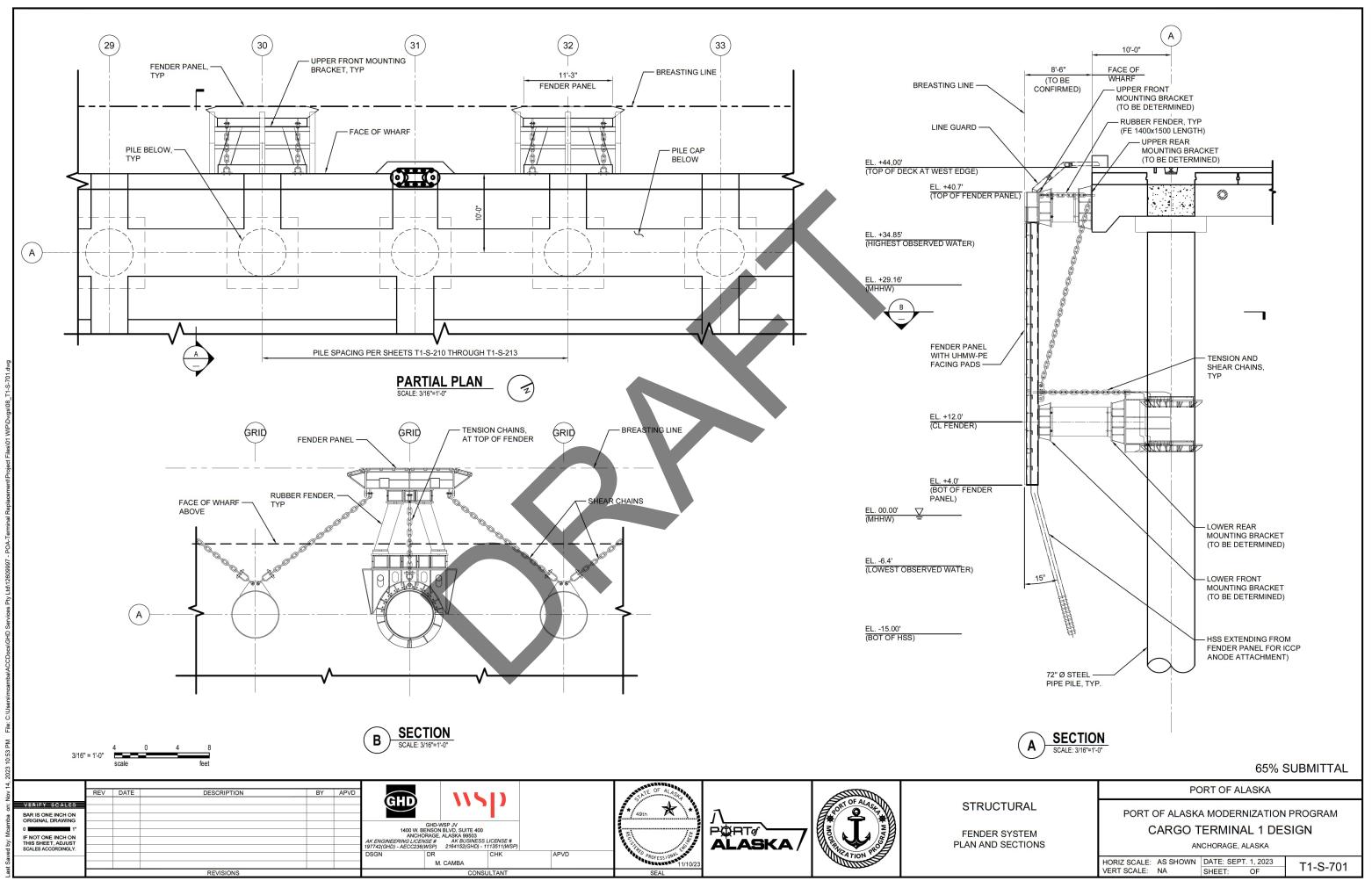
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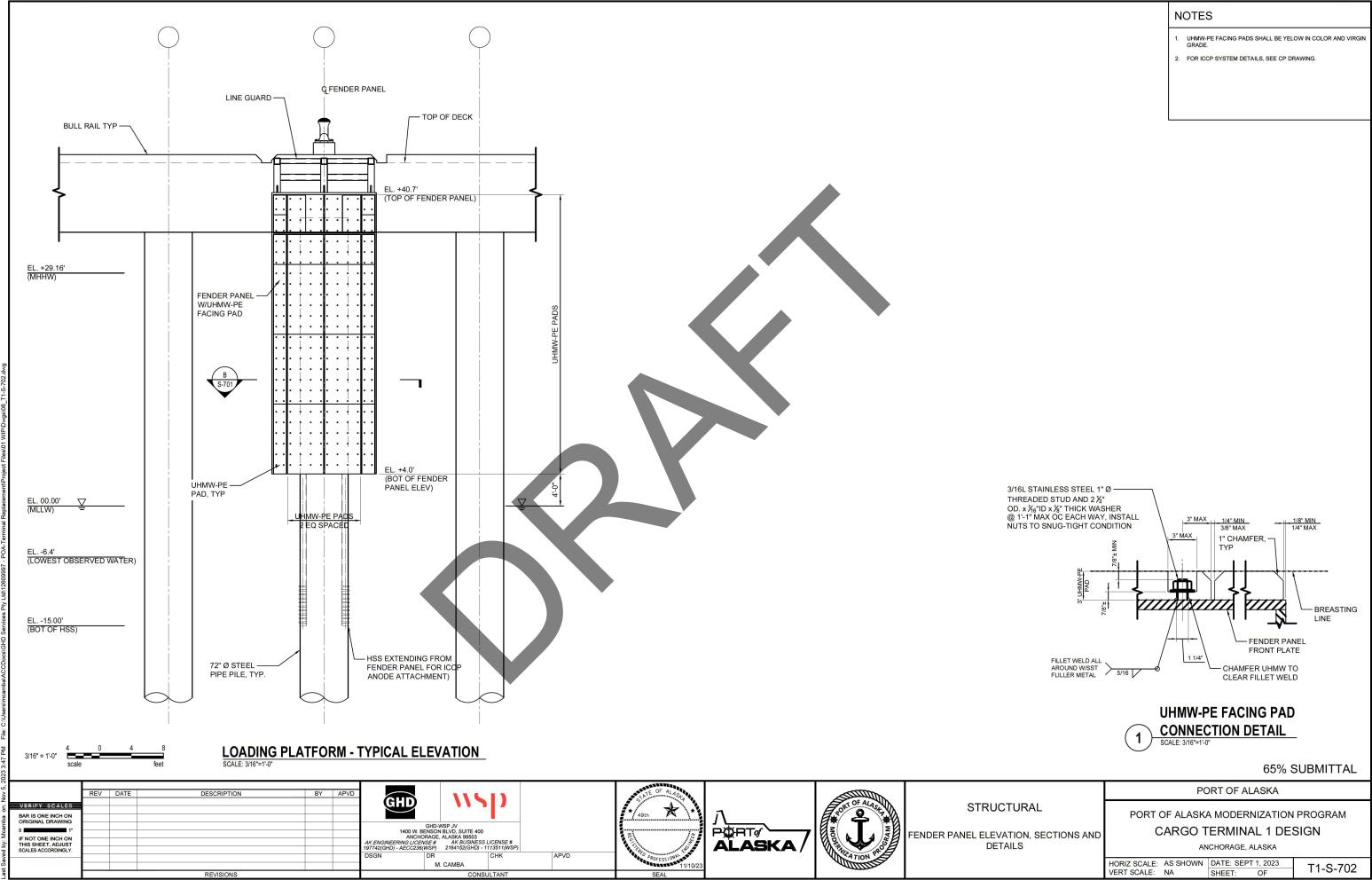




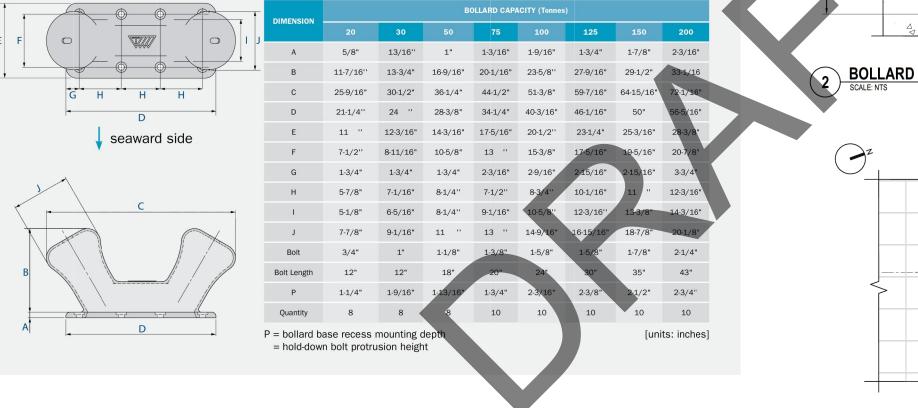






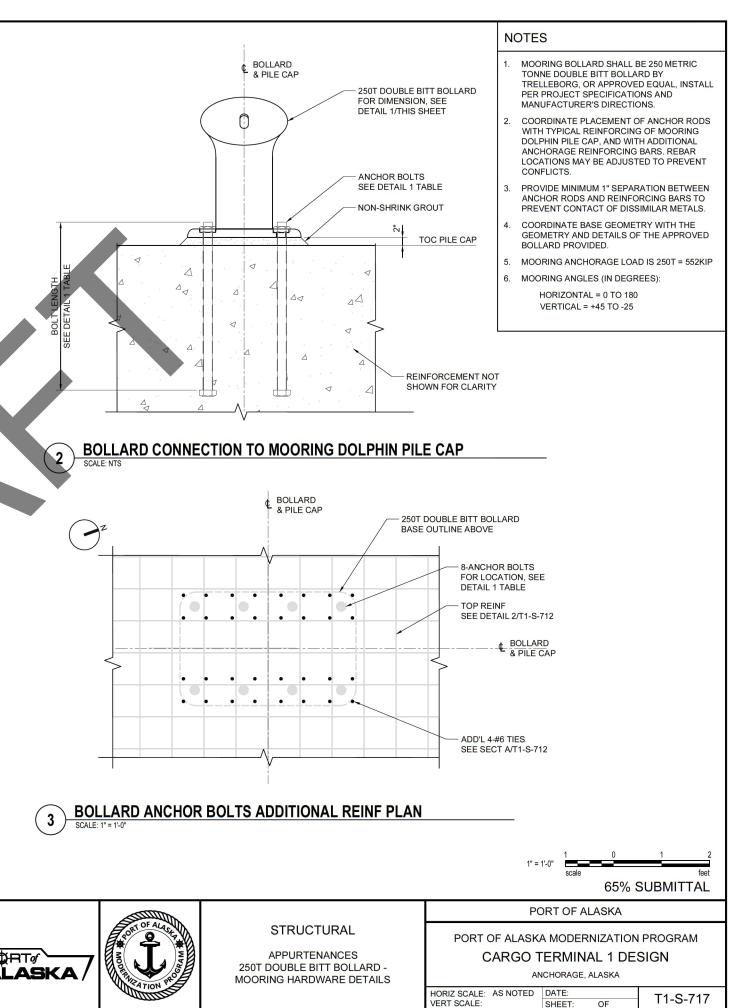


10:18 AM File: C:\User					<u> </u>				SCALE: 1" = 1-0"				
ast Saved by: Mcamba on: Nov 7, 2023	VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING 0 1° IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	REV	DATE	DESCRIPTION	BY APVD	GH	GHD-WSP JV 00 W. BENSON BLVD, SUITE 4 ANCHORAGE, ALASKA 99503 5 L/CENSE # AK BUSINE CC236(WSP) 2164152(GHL DR M. CAMBA	13 IESS LICENSE # ID) - 1113511(WSP) CHK	APVD	Agente OF ALAGE		CONTOF ALLONG	STRUCT APPURTEN 250T DOUBLE BIT MOORING HARDW
Ľ	REVISIONS			<u> </u>	CONSULTANT								



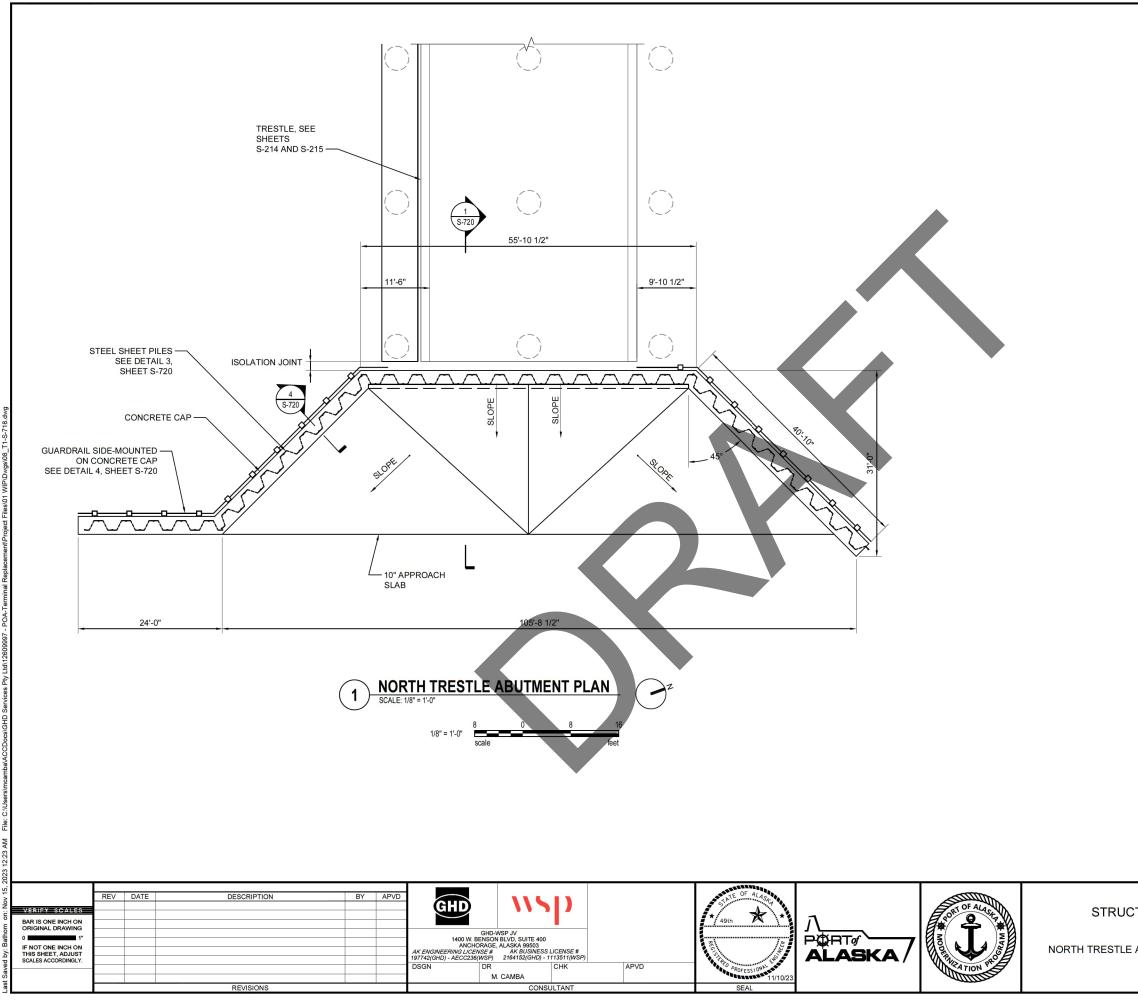
seaward side

BOLLARD DIMENSIONS



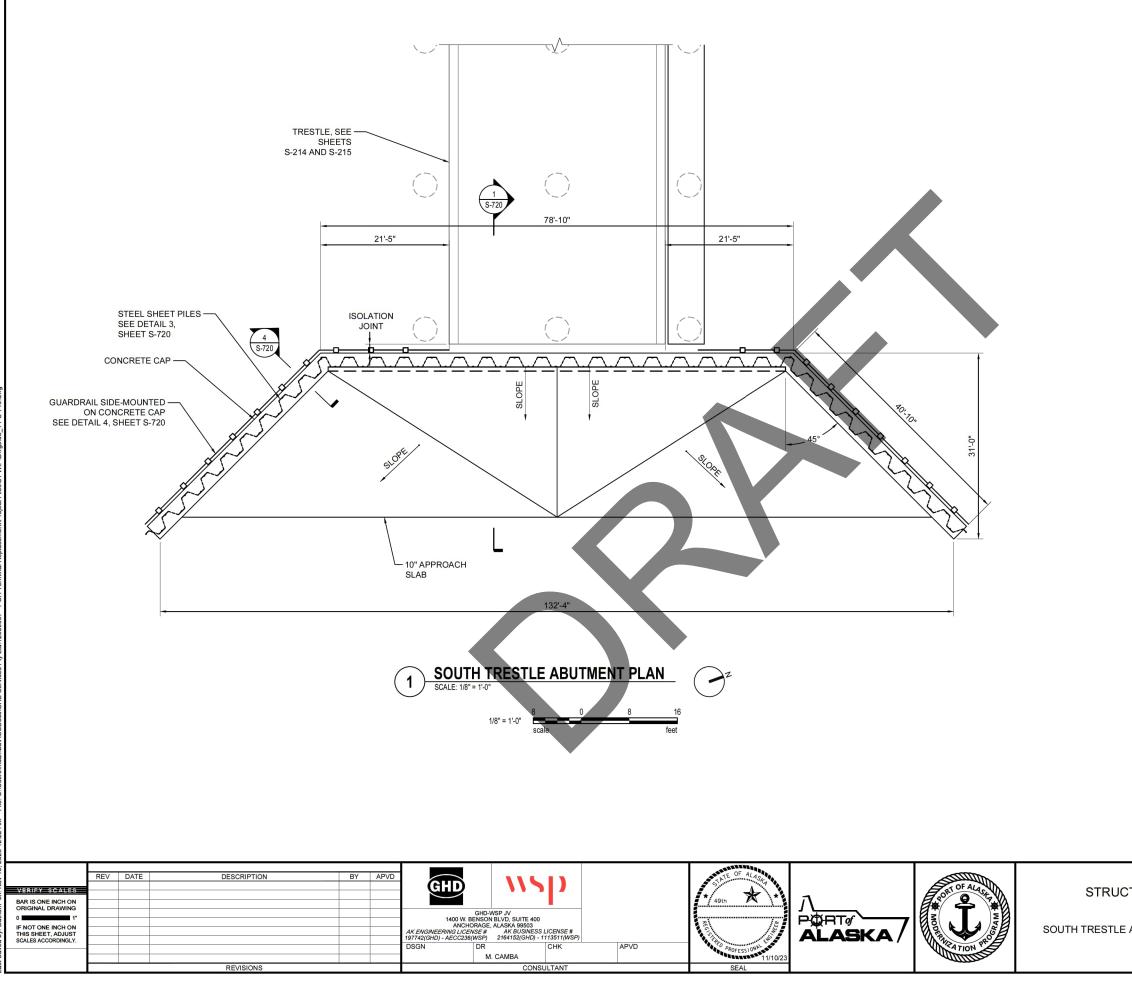
OF

SHEET:



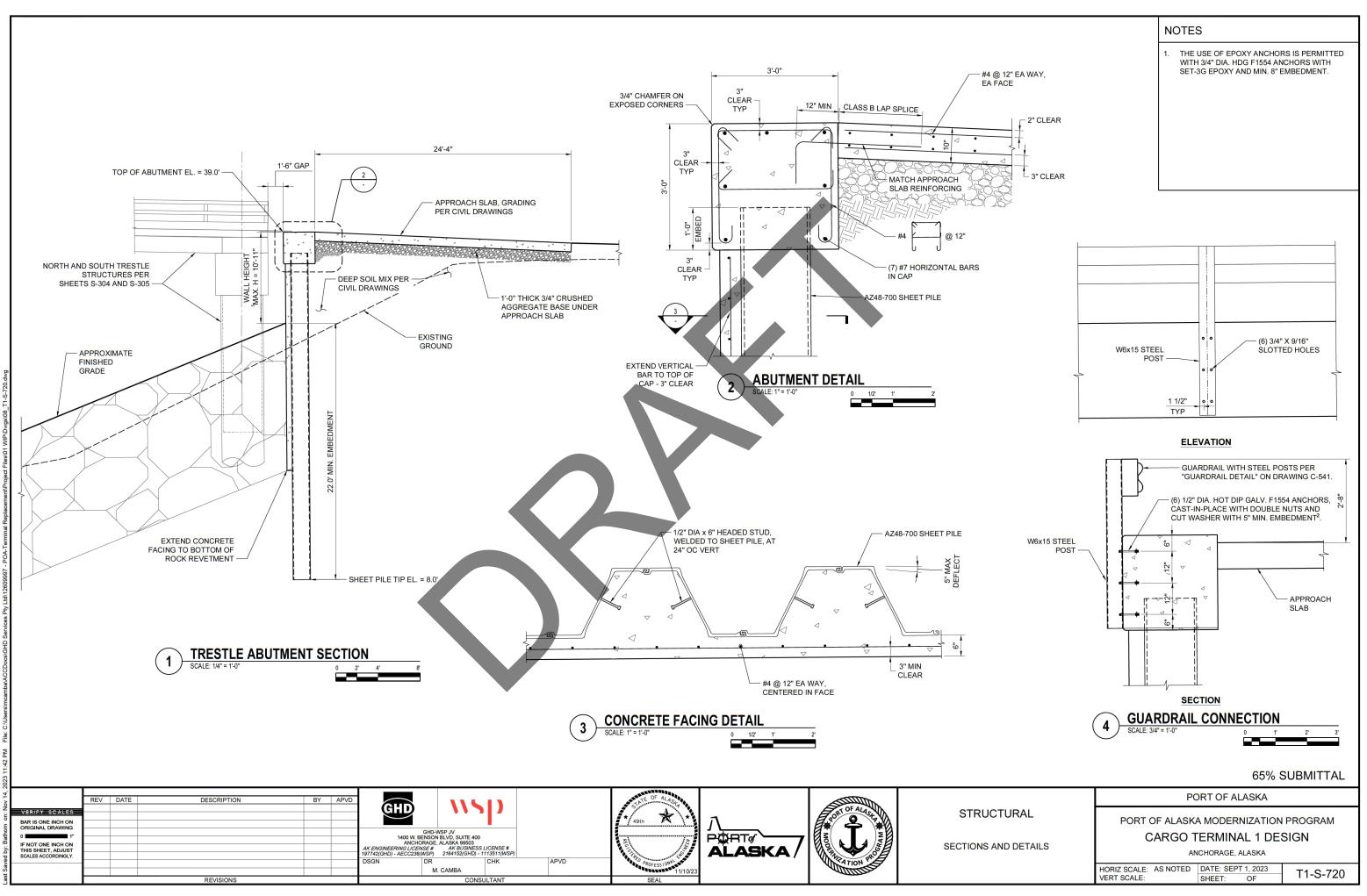
	PORT OF ALASKA				
STRUCTURAL	PORT OF ALASKA MODERNIZATION PROGRAM				
	CARGO TERMINAL 1 DESIGN				
TRESTLE ABUTMENT PLAN	ANCHORAGE, ALASKA				
	HORIZ SCALE: AS NOTED VERT SCALE:	DATE: SEPT 1, 2023 SHEET: OF	T1-S-718		

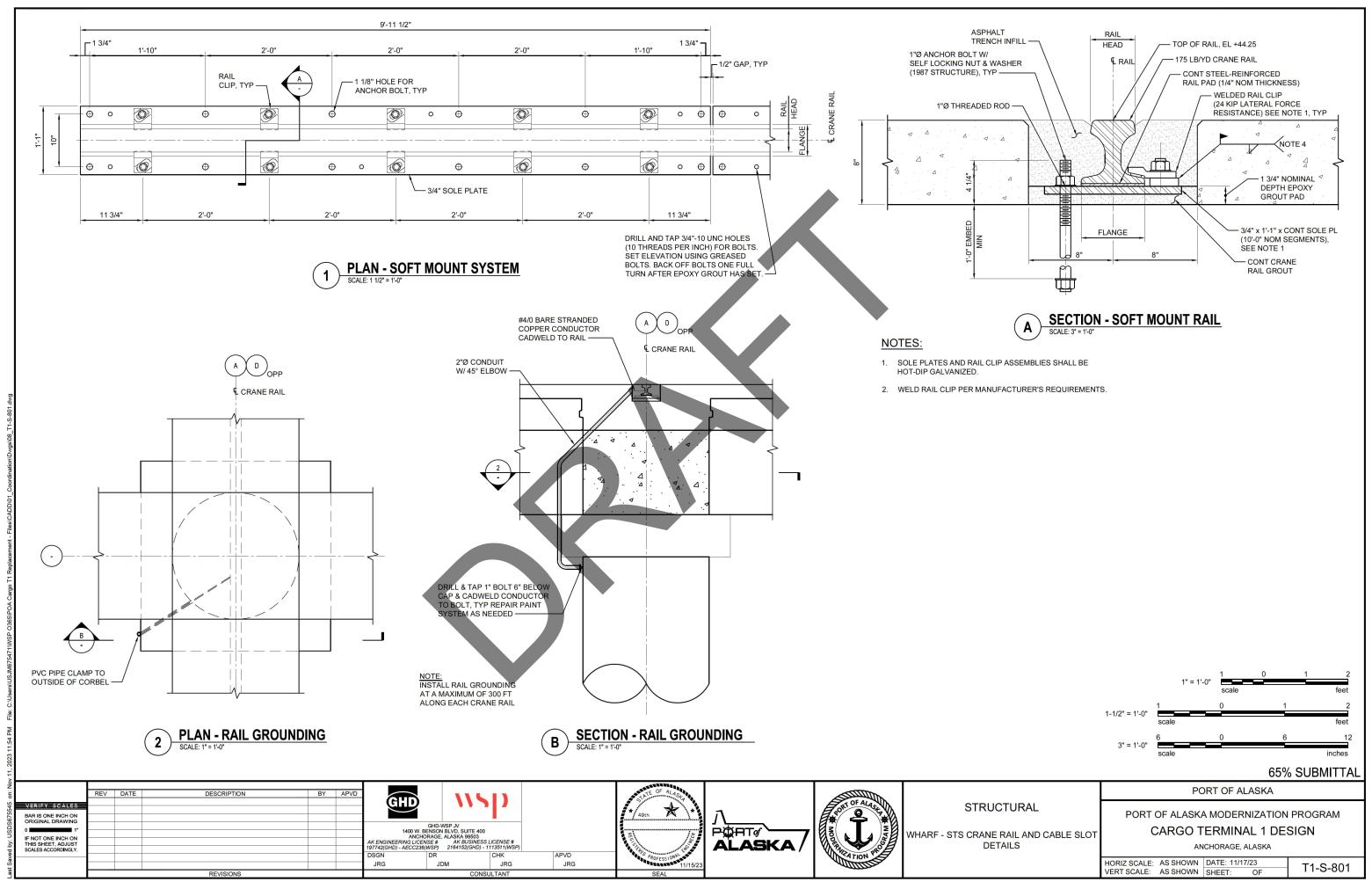
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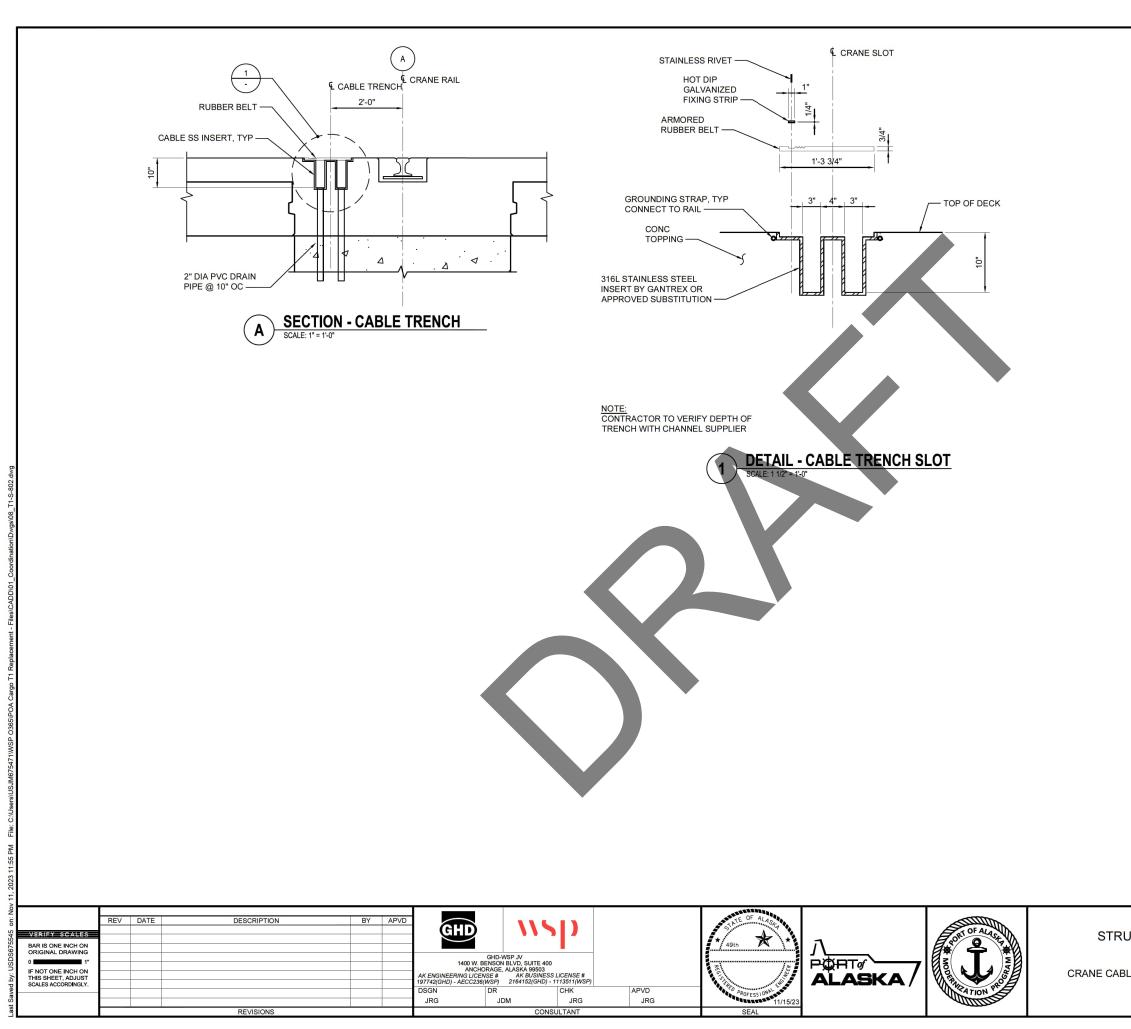


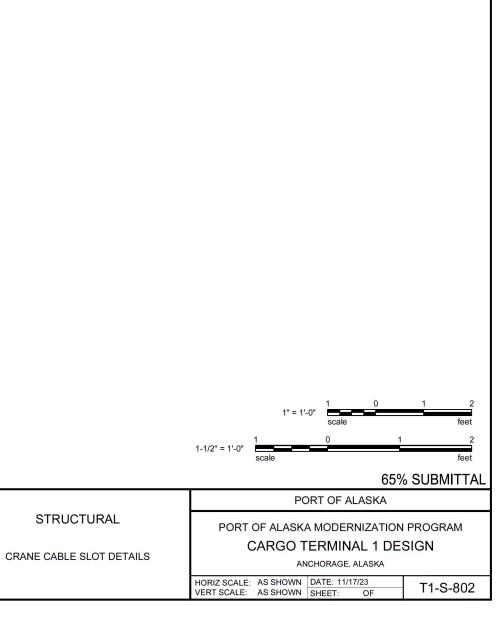
	PORT OF ALASKA					
TURAL	PORT OF ALASKA MODERNIZATION PROGRAM					
ABUTMENT PLAN	CARGO TERMINAL 1 DESIGN					
	ANCHORAGE, ALASKA					
	HORIZ SCALE: AS NOTED VERT SCALE:	DATE: SEPT 1, 2023 SHEET: OF	T1-S-719			

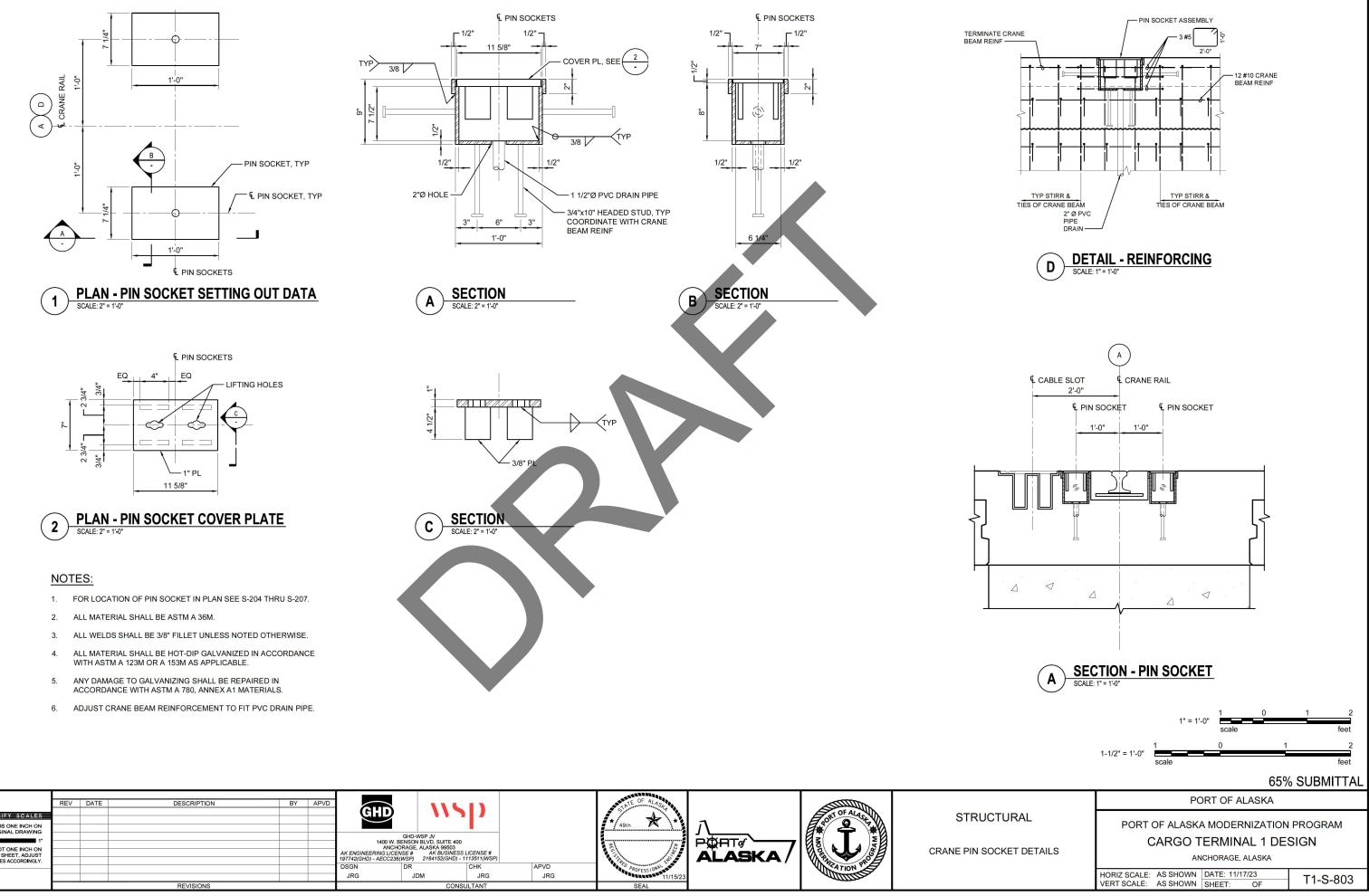
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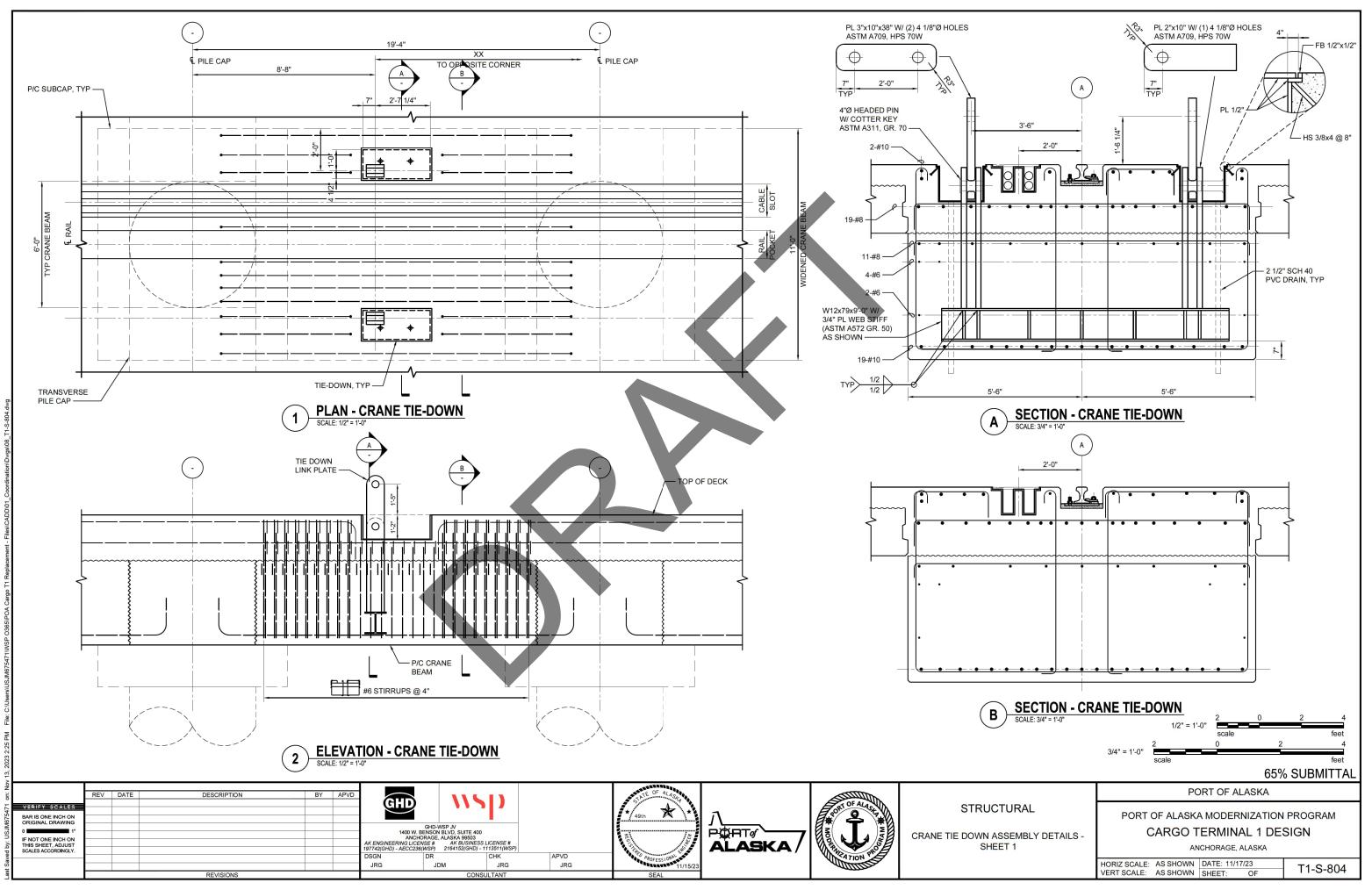


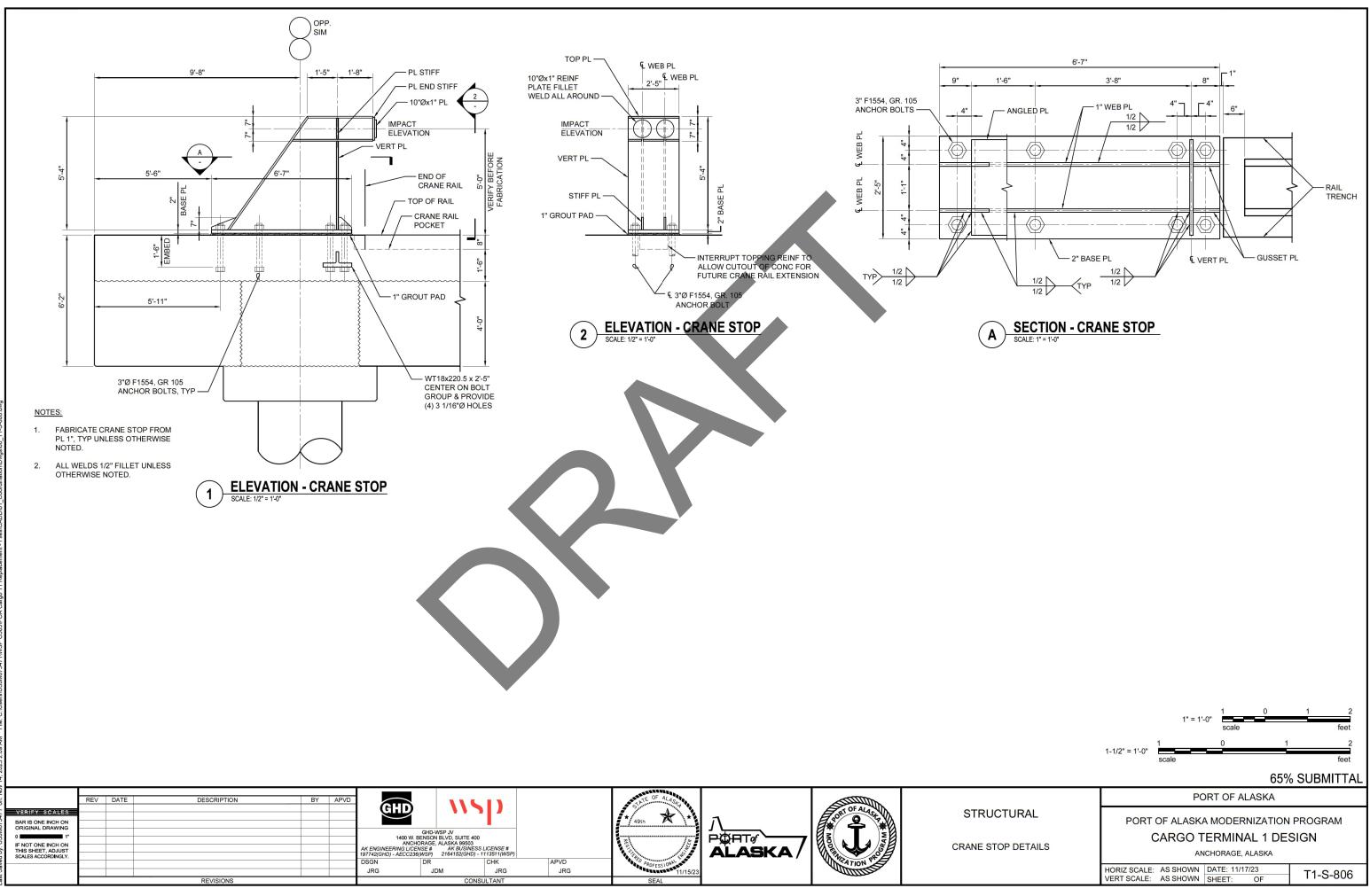


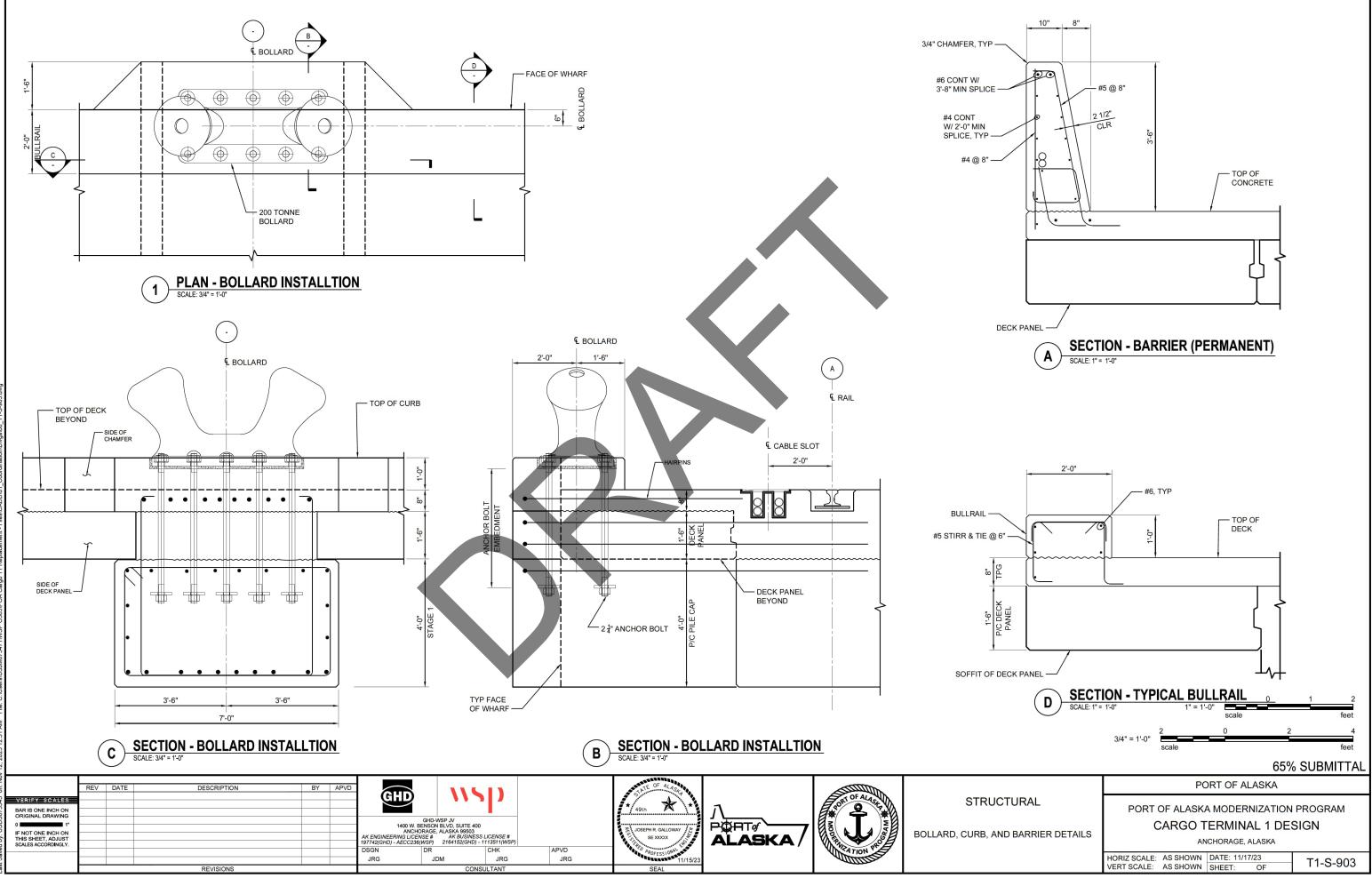












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