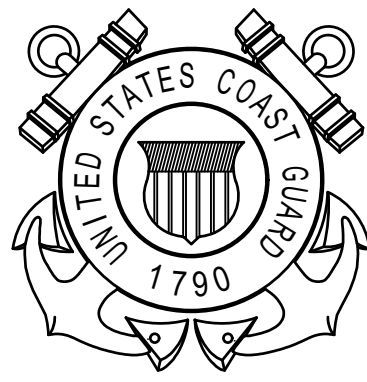
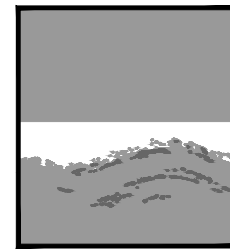
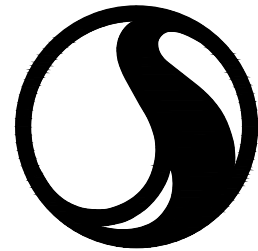




U.S. COAST GUARD
CIVIL ENGINEERING OFFICE
CEU OAKLAND



Appledore Marine
Engineering, LLC

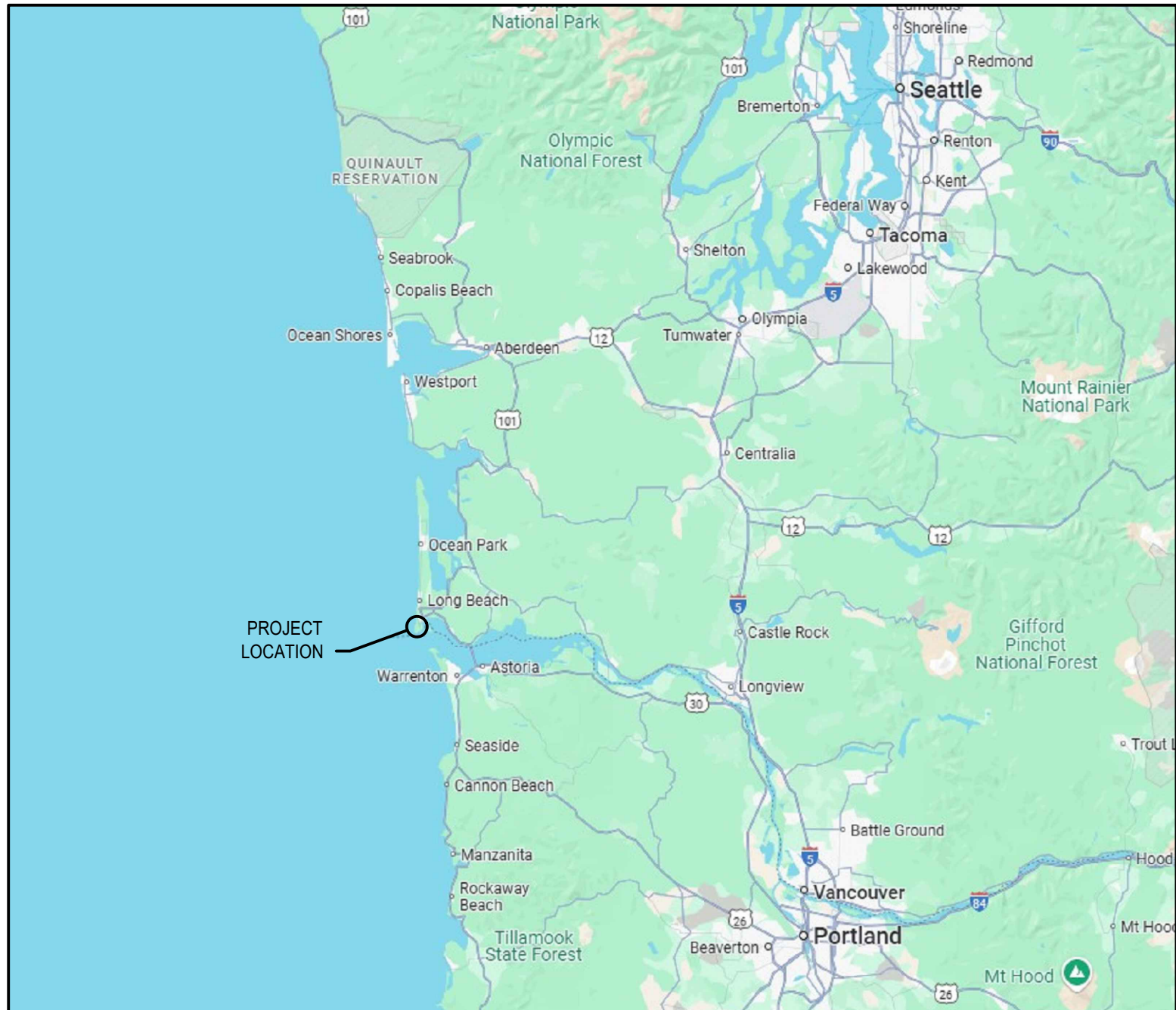


USCG PROJECT NUMBER: PSN 27843489

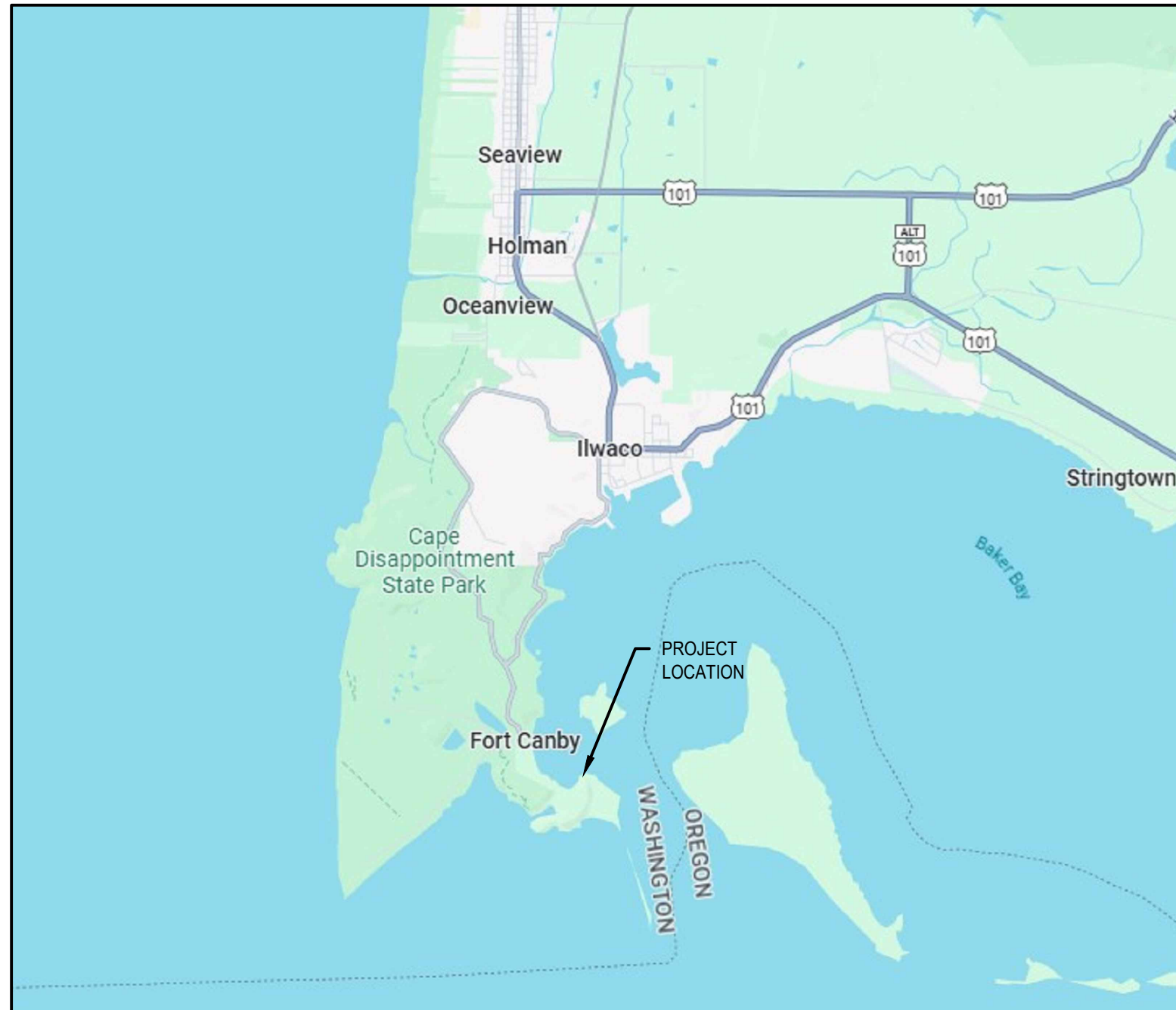
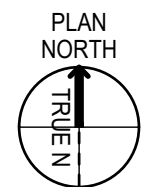
REPAIR FLOATING DOCK #3 (SET B)

STATION CAPE DISAPPOINTMENT

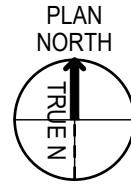
ILWACO, WASHINGTON



VICINITY MAP
SCALE: NTS

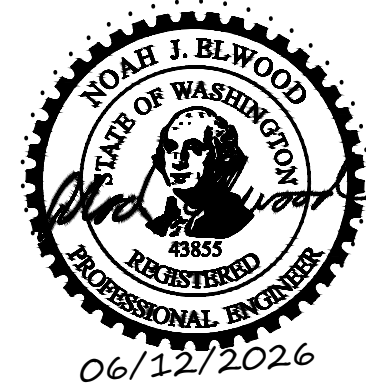


LOCATION MAP
SCALE: NTS



SOLICITATION NO.: N/A
CONTRACT NO.: N/A
ISSUE DATE:
VOLUME X

DRAWING INDEX		
SHEET ID	SHEET NO.	SHEET TITLE
G-001	1	COVER SHEET
G-002	2	GENERAL NOTES
G-003	3	SITE PHOTOS
G-101	4	WORK PLAN
SD101	5	DEMOLITION PLAN
SD501	6	DEMOLITION DETAILS
S-101	7	PILE PLAN
S-102	8	FLOATING DOCK PLAN
S-301	9	FLOATING DOCK SECTIONS
S-501	10	PILE DETAILS
S-502	11	FLOATING DOCK DETAILS
S-503	12	GANGWAY PLATFORM DETAILS - 1
S-504	13	GANGWAY PLATFORM DETAILS - 2
S-505	14	MISCELLANEOUS DETAILS
M-001	15	LEGENDS AND ABBREVIATIONS
MD101	16	DEMOLITION PLAN - MECHANICAL
M-101	17	SITE PLAN - MECHANICAL
M-201	18	ENLARGED PLAN - MECHANICAL
M-301	19	DETAILS - MECHANICAL
E-001	20	SYMBOLS AND ABBREVIATIONS
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E-501	22	POWER PEDESTAL SHORE TIE DETAILS
E-502	23	POWER PEDESTAL DETAILS
E-503	24	FUEL DISPENSER DETAILS
E-601	25	PARTIAL ONE-LINE DIAGRAM
E-602	26	PANEL SCHEDULES - 1
E-603	27	PANEL SCHEDULES - 2



DATE	DESCRIPTION
06/12/2026	FINAL
	MARK
	MEASUREMENT BAR: 1" (HALF SIZE = 1/2")

A/E COMPANY:
APPLEDORE MARINE ENGINEERING, LLC
1301 CLAY STREET SUITE 700N
OAKLAND, CA 94612-5203
(931) 788-1370
A/E PROJECT NO.:
6030A
CONSULTING A/E:

USCG CIVIL ENGINEERING UNIT, OAKLAND
1301 CLAY STREET SUITE 700N
OAKLAND, CA 94612-5203
USCG PROJECT MANAGER:
R. TIZZER
DESIGNED BY:
ETL
EDITED BY:
DLM

USCG PROJECT NUMBER:
27843489
USCG DRAWING SERIES NUMBER:
027843489G-001
USCG FILENAME:
027843489G-001.DWG
SHEET 01 OF 27

REPAIR FLOATING DOCK #3
STATION CAPE DISAPPOINTMENT
ILWACO
WASHINGTON
GENERAL
COVER SHEET

SHEET ID
FLOATING
DOCK #3
G-001

2026.06.24
11:52:40 -07'00'
APPROVING OFFICIAL
DATE
2026.06.24
11:53:58 -07'00'
TECHNICAL DIRECTOR
TOMCO.JOEL.EDW
ARD.1384908795
BRANCH CHIEF
Digitally signed by
TOMCO.JOEL.EDWARD.13849087
95
Date: 2026.06.23 13:19:11 -07'00'

G

- F

E

- D

C

- B

A

CONTRACT NO.: N/A

1. THE STEEL GUIDE PILES (FLOATING DOCK) AND SUPPORT PILES (GANGWAY PLATFORM) WILL BE INSTALLED BY OTHERS, UNDER A SEPARATE CONTRACT, PRIOR TO THIS PROJECT.



REPAIR FLOATING DOCK #3

STATION CAPE DISAPPOINTMENT

ILWACO

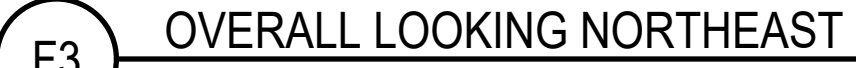
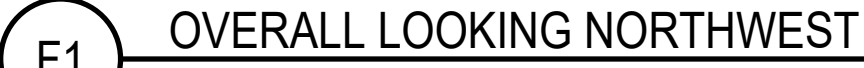
WASHINGTON

GENERAL

GENERAL NOTES

GENERAL NOTES

A

[illegible]

A/E COMPANY:
APPLIEDORE MARINE ENGINEERING, LLC
PORTSMOUTH, NEW HAMPSHIRE

USCG CIVIL ENGINEERING UNIT, OAKLAND
1301 CLAY STREET SUITE 700N
OAKLAND, CA 94612 5202

USCG PROJECT NUMBER
27843489

REPAIR FLOATING DOCK #3
STATION CAPE DISAPPOINTMENT

FR
D
C

WASHINGTON

55

ILWACO

SHEE
LOA
DOC
G-0

GENERAL

GENERAL

ET ID
ATING
K #3
003

R. TYZZER	DESIGNED BY:	DRAWN BY:
-----------	--------------	-----------

USCG FILENAME
027843489G-003.DWG

GENERAL

ET ID
ATING
K #3
003

SITE PHOTOS

E PHOTOS

3
G
3

ETL	SND
EDITED BY:	CHECKED BY:

SHEET 03 OF 27

SITE PHOTOS

3
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3

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— 11 —

11

DLM	NJE
-----	-----

[illegible]3
-
2
-
1
-
5

11

SOLICITATION NO.: N/A

CONTRACT NO.: N/A



REFERENCES

1. APPLIEDORE MARINE ENGINEERING, LLC, DRONE PHOTOGRAPH, MARCH 2025.

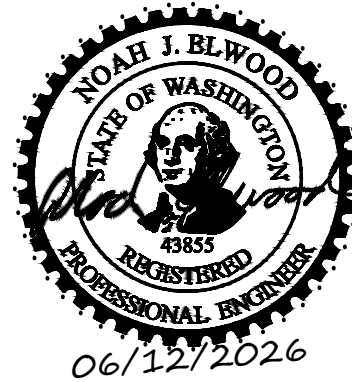


LEGEND:

- 10 -- MAJOR CONTOUR (DEPTH IN FEET BELOW MLLW=0.0')
- 12 -- MINOR CONTOUR (DEPTH IN FEET BELOW MLLW=0.0')

WORK KEYNOTES

- A** GUIDE PILES & GANGWAY PLATFORM PILES INSTALLED BY OTHERS
(SEE SHEET G-002 FOR PILES NOTE)
- B** FLOATING DOCK
- C** GANGWAY PLATFORM
- D** INSTALL GANGWAY (GFE)
- E** BOATHOUSE ACCESS BRIDGE DEMOLITION AND REPAIR



MARK	DESCRIPTION	DATE
FINAL		06/12/2026

MEASUREMENT BAR: 1" = 1' (HALF SIZE = 1/2')

A/E COMPANY:
APPLIEDORE MARINE ENGINEERING, LLC
1301 CLAY STREET SUITE 700N
OAKLAND, CA 94612-5203
(931) 788-1370

A/E PROJECT NO.:
6030A

CONSULTING A/E:

USCG CIVIL ENGINEERING UNIT, OAKLAND
1301 CLAY STREET SUITE 700N
OAKLAND, CA 94612-5203

USCG PROJECT MANAGER:
R. TIZZER

DESIGNED BY:
ETL

EDITED BY:
DLM

DRAWN BY:
SND

CHECKED BY:
NJE

USCG PROJECT NUMBER
27843489

USCG DRAWING SERIES NUMBER
027843489G-101

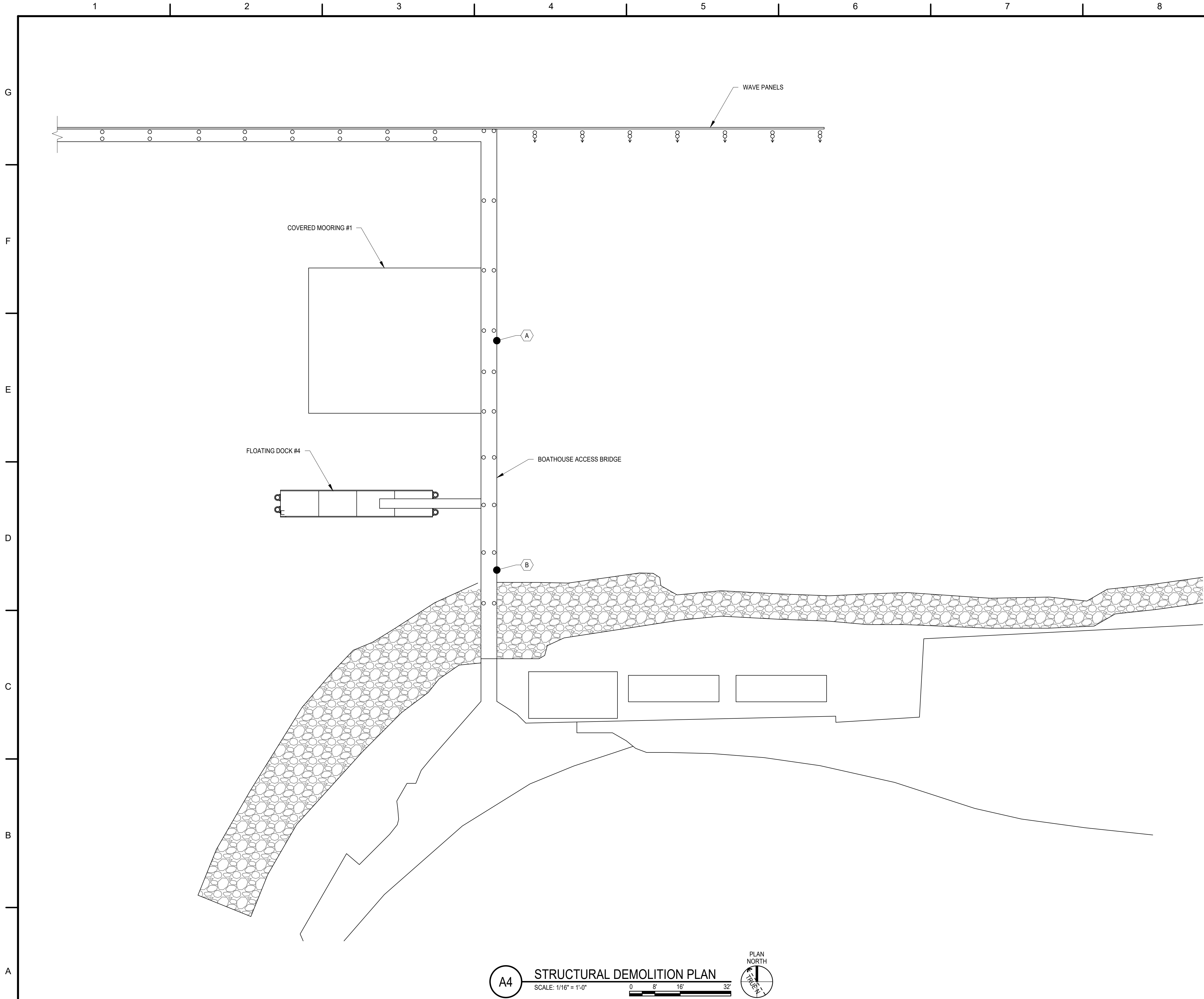
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SHEET 04 OF 27

REPAIR FLOATING DOCK #3
STATION CAPE DISAPPOINTMENT
ILWACO

WASHINGTON
GENERAL
WORK PLAN

SHEET ID
FLOATING
DOCK #3
G-101



A4

STRUCTURAL DEMOLITION PLAN
SCALE: 1/16" = 1'-0"

0 8' 16' 32'

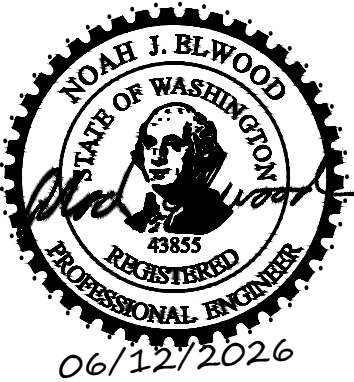


DEMOLITION KEYNOTES

- A GANGWAY CONNECTION ASSEMBLY DEMOLITION A1 30591
- B BOATHOUSE ACCESS BRIDGE HANDRAIL DEMOLITION A7 30591

REPAIR FLOATING DOCK #3
STATION CAPE DISAPPOINTMENT
ILWACO
WASHINGTON
STRUCTURAL DEMOLITION
DEMOLITION PLAN

SHEET ID
FLOATING
DOCK #3
SD101



MARK	DESCRIPTION	DATE
		06/12/2026

A/E COMPANY:
APPLIED MARINE ENGINEERING, LLC
1301 CLAY STREET SUITE 700N
OAKLAND, CA 94612-5203
(931) 788-1170

A/E PROJECT NO.:
6030A

CONSULTING A/E:

USCG CIVIL ENGINEERING UNIT, OAKLAND
1301 CLAY STREET SUITE 700N
OAKLAND, CA 94612-5203

USCG PROJECT MANAGER:
R. TYZZER

DESIGNED BY:
ETL

EDITED BY:
DLM

USCG PROJECT NUMBER
27843489

USCG DRAWING SERIES NUMBER
027843489SD101

USCG FILENAME
027843489SD101.DWG

SHEET 05 OF 27

USCG PROJECT MANAGER:
R. TYZZER

DESIGNED BY:
ETL

EDITED BY:
DLM

CHECKED BY:
NJE

SHEET ID

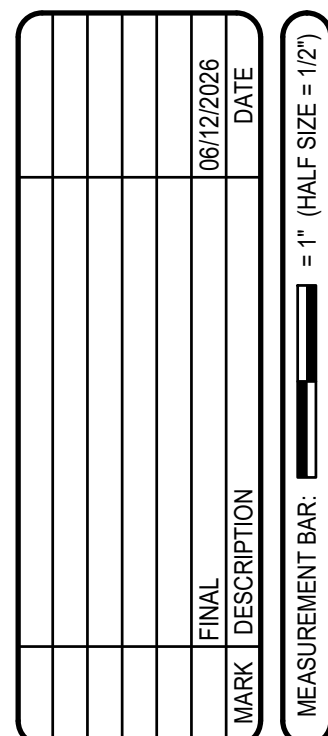
FLOATING

DOCK #3

SD101

1

A

6030A
CONSULTING A/E-

R. TYZZER	DESIGNED BY:	DRAWN BY:
-----------	--------------	-----------

USCG FILENAME

STRICTLY CONFIDENTIAL

SHEET ID
FLOATING
DOCK #3
SD501

GANGWAY CONNECTION ASSEMBLY REMOVAL DETAIL
NOT TO SCALE

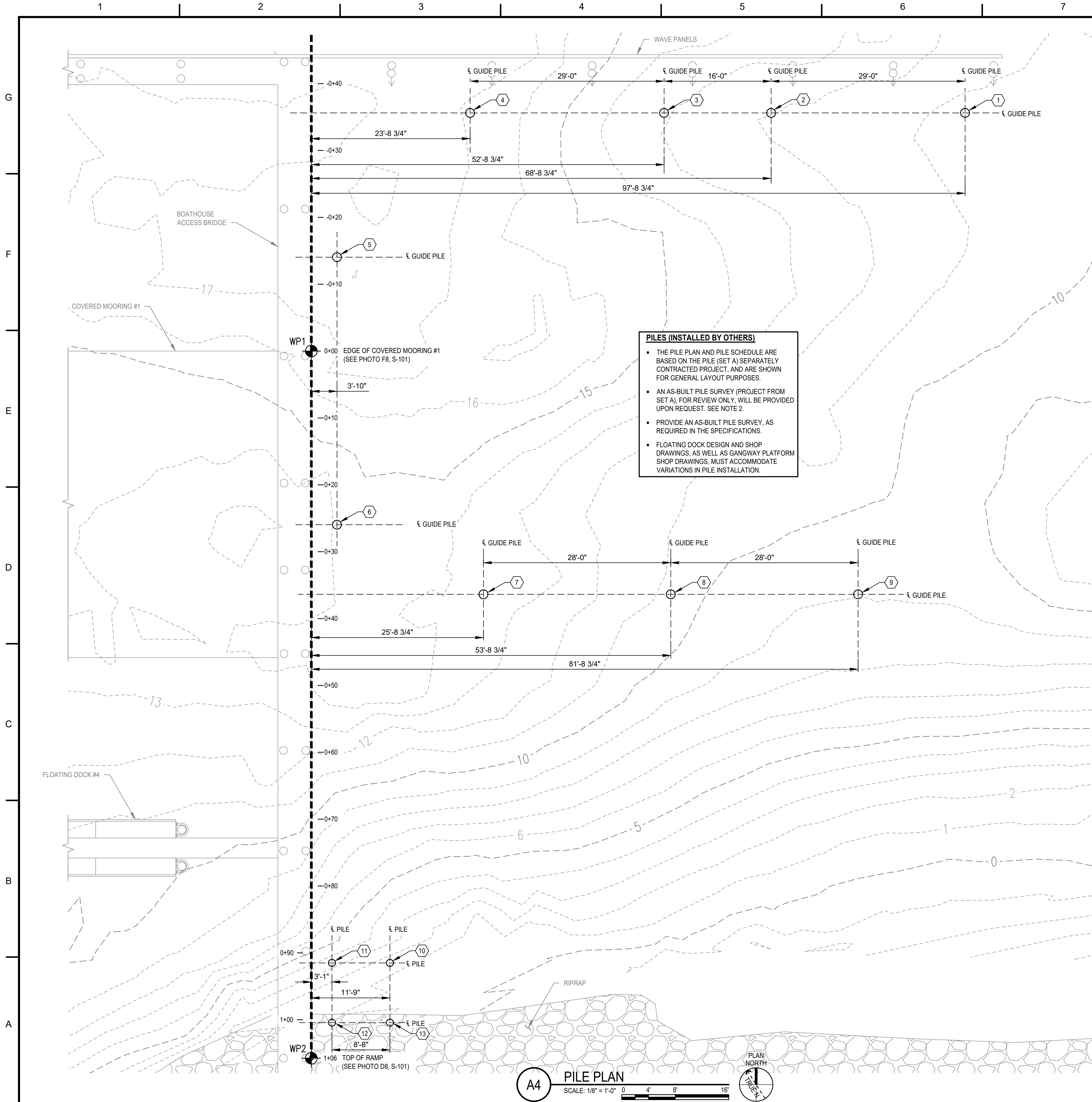
SOLICITATION NO.: N/A

CONTRACT NO.: N/A

HANDRAIL REMOVAL DETAIL

SOLICITATION NO.: N/A

CONTRACT NO.: N/A



F8 WP1 - EDGE OF COVERED MOORING #1
NOT TO SCALE



D8 WP2 - TOP OF RAMP
NOT TO SCALE

PILE SCHEDULE

PILE ID	PILE SIZE	STATION	OFFSET	ESTIMATED PILE TIP EL	PILE TOP EL
1	PP16x0.500	0+35.6	97'-8.75"	-41.0'	18'
2	PP16x0.500	0+35.6	68'-8.75"	-42.0'	18'
3	PP16x0.500	0+35.6	52'-8.75"	-44.0'	18'
4	PP16x0.500	0+35.6	23'-8.75"	-47.0'	18'
5	PP16x0.500	0+14	3'-10"	-47.0'	18'
6	PP16x0.500	0+26	3'-10"	-44.0'	18'
7	PP16x0.500	0+36.4	25'-8.75"	-44.0'	18'
8	PP16x0.500	0+36.4	53'-8.75"	-41.0'	18'
9	PP16x0.500	0+36.4	81'-8.75"	-39.0'	18'
10	PP12.75x0.500	0+91.5	11'-9"	-51.0'	14.2'
11	PP12.75x0.500	0+91.5	3'-1"	-51.0'	14.2'
12	PP12.75x0.500	1+00.4	3'-1"	-51.0'	14.2'
13	PP12.75x0.500	1+00.4	11'-9"	-51.0'	14.2'

LEGEND:

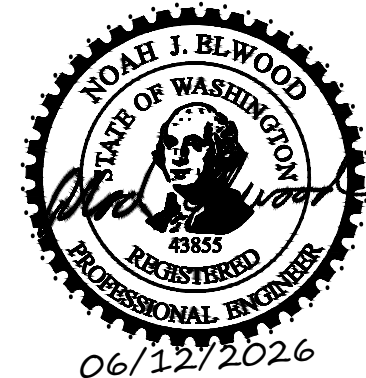
- ① PILE ID
- WP1 WORKING POINT
- 0+00 STATIONING (IN FEET)
- 10 MAJOR CONTOUR (DEPTH IN FEET BELOW MLLW=0.0')
- 12 MINOR CONTOUR (DEPTH IN FEET BELOW MLLW=0.0')

NOTES:

- GUIDE PILE & GANGWAY PLATFORM PILES INSTALLED BY OTHERS UNDER SEPARATE CONTRACT (SEE SHEET G-002 FOR PILES NOTE).
- WORKING POINTS, MUST BE USED IN THE SURVEY, ARE LOCATED ON THE OUTBOARD EDGE OF THE COMPOSITE DECKING OF THE BOATHOUSE ACCESS BRIDGE, AT THE LOCATIONS SHOWN ON THIS SHEET. WORKING POINTS FOR PILE INSTALLATION WERE ESTABLISHED BY S&F LAND SERVICES ON 2-10-26.

REFERENCES

- ACOE PORTLAND DISTRICT, BATHYMETRIC DATA, NOVEMBER 19, 2024.



MARK	DESCRIPTION	DATE
FINAL		06/12/2026

A/E COMPANY:
APPLIED MARINE ENGINEERING, LLC
1301 CLAY STREET SUITE 700N
OAKLAND, CA 94612-5203
(931) 788-1370

USCG PROJECT NUMBER:
27843489

USCG DRAWING SERIES NUMBER:
027843489S-101

REPAIR FLOATING DOCK #3
STATION CAPE DISAPPOINTMENT
ILWACO
WASHINGTON

SHEET ID
FLOATING
DOCK #3
S-101

A/E PROJECT NO.:
6030A

USCG PROJECT MANAGER:
R. TYZER

USCG FILENAME:
027843489S-101.DWG

STRUCTURAL
PILE PLAN

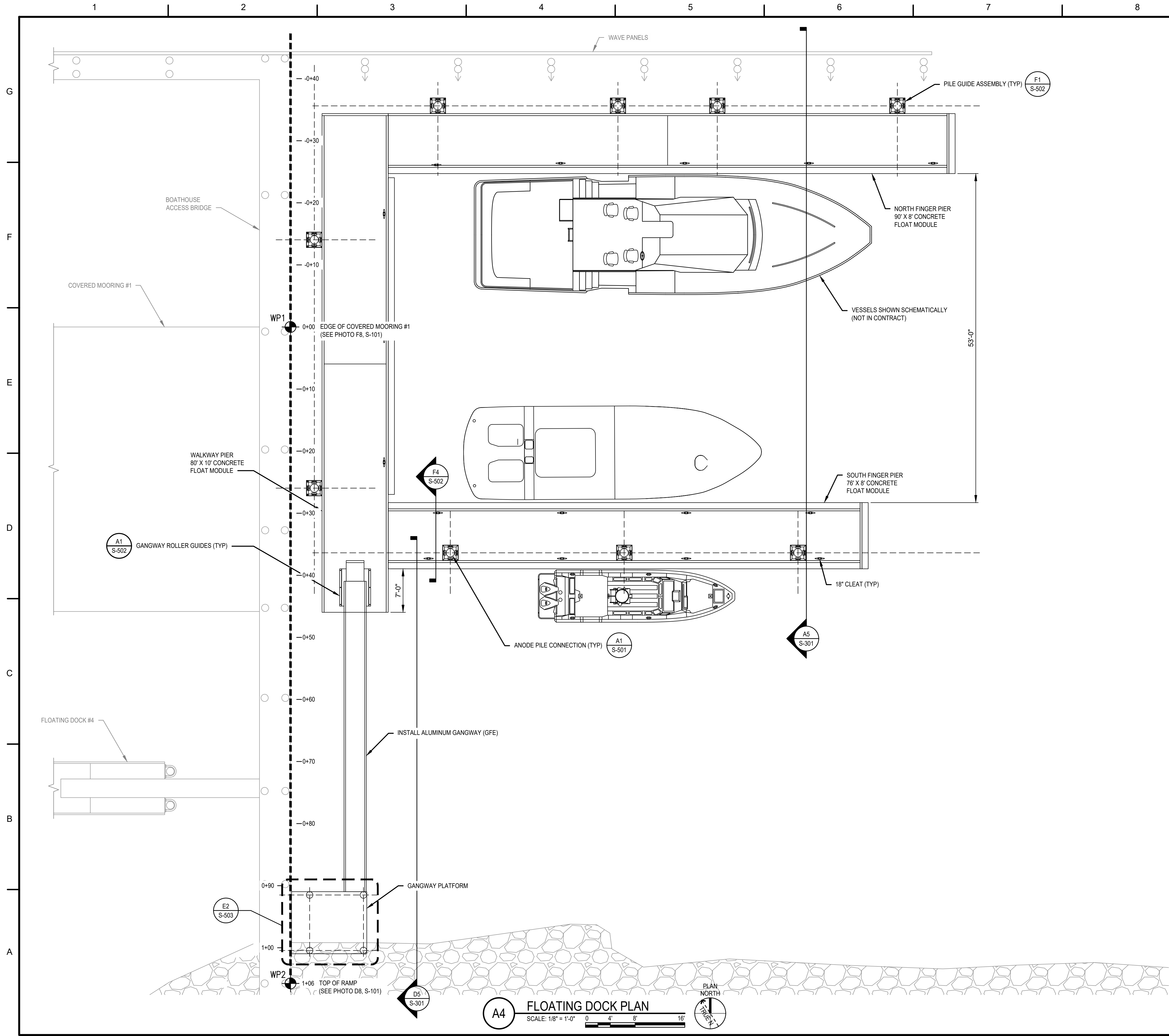
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SND

CONSULTING A/E:
CHECKED BY:
DLM

DESIGNED BY:
ETL

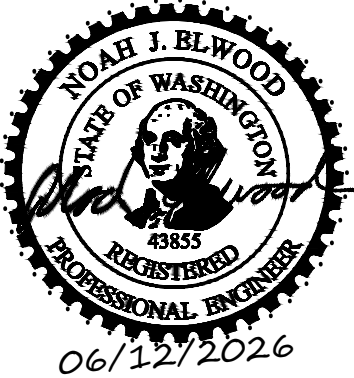
07 OF 27

MEASUREMENT BAR: 1" = 1' (HALF SIZE = 1/2")



SOLICITATION NO.: N/A

CONTRACT NO.: N/A



MARK	DESCRIPTION	DATE
FINAL		06/12/2026

MEASUREMENT BAR: 1" = 1' (HALF SIZE = 1/2')

A/E COMPANY: APPLIED MARINE ENGINEERING, LLC
1000 W. 10TH AVE., SUITE 100
SEASIDE, CA 94134
(925) 768-1170
A/E PROJECT NO.: 6030A
CONSULTING A/E:

USCG CIVIL ENGINEERING UNIT, OAKLAND
1301 CLAY STREET SUITE 700N
OAKLAND, CA 94612-5203
USCG PROJECT MANAGER:
R. TYZZER
DESIGNED BY: ETL
CHECKED BY: DJM

USCG PROJECT NUMBER
27843489
USCG DRAWING SERIES NUMBER
027843489S-102
USCG FILENAME
027843489S-102.DWG
SHEET 08 OF 27

REPAIR FLOATING DOCK #3
STATION CAPE DISAPPOINTMENT
ILWACO
WASHINGTON
STRUCTURAL
FLOATING DOCK PLAN

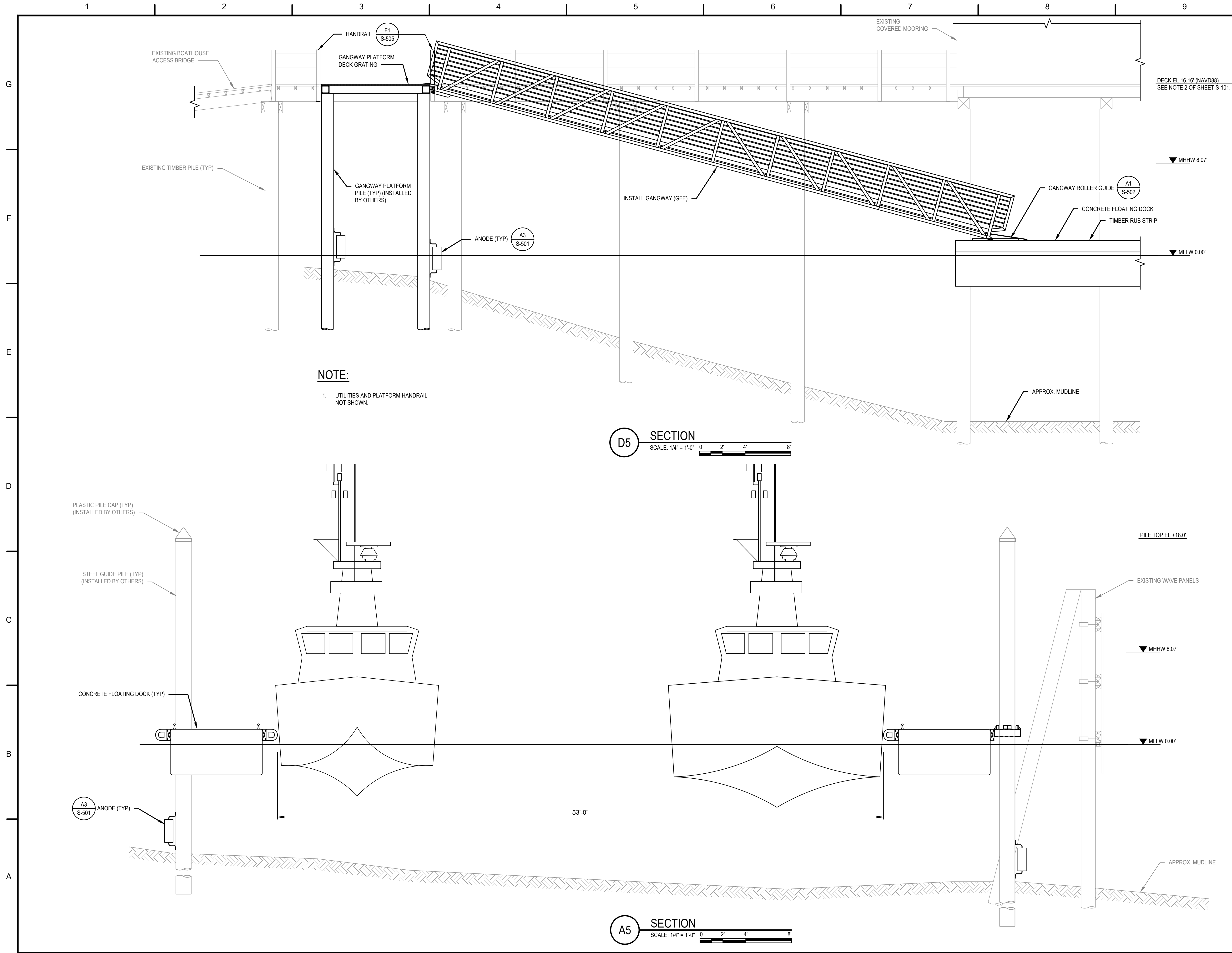
SHEET ID
FLOATING
DOCK #3
S-102

LEGEND:

WP1
0+00
WORKING POINT
STATIONING (IN FEET)

NOTES:

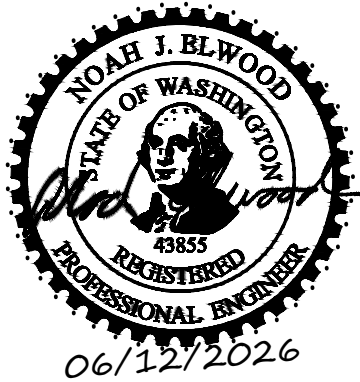
- THE WALKWAY AND FINGER PIERS MUST BE STRUCTURALLY CONNECTED AS A SINGLE SYSTEM. DO NOT RELY ON WALES TO STRUCTURALLY CONNECT THE FLOAT UNITS.
- FOR MECHANICAL COMPONENTS, SEE SHEET M-101.
- FOR ELECTRICAL COMPONENTS, SEE SHEET E-101.



NOTE:
1. UTILITIES AND PLATFORM HANDRAIL NOT SHOWN.

D5 SECTION
SCALE: 1/4" = 1'-0" 0 2' 4' 8'

A5 SECTION
SCALE: 1/4" = 1'-0" 0 2' 4' 8'



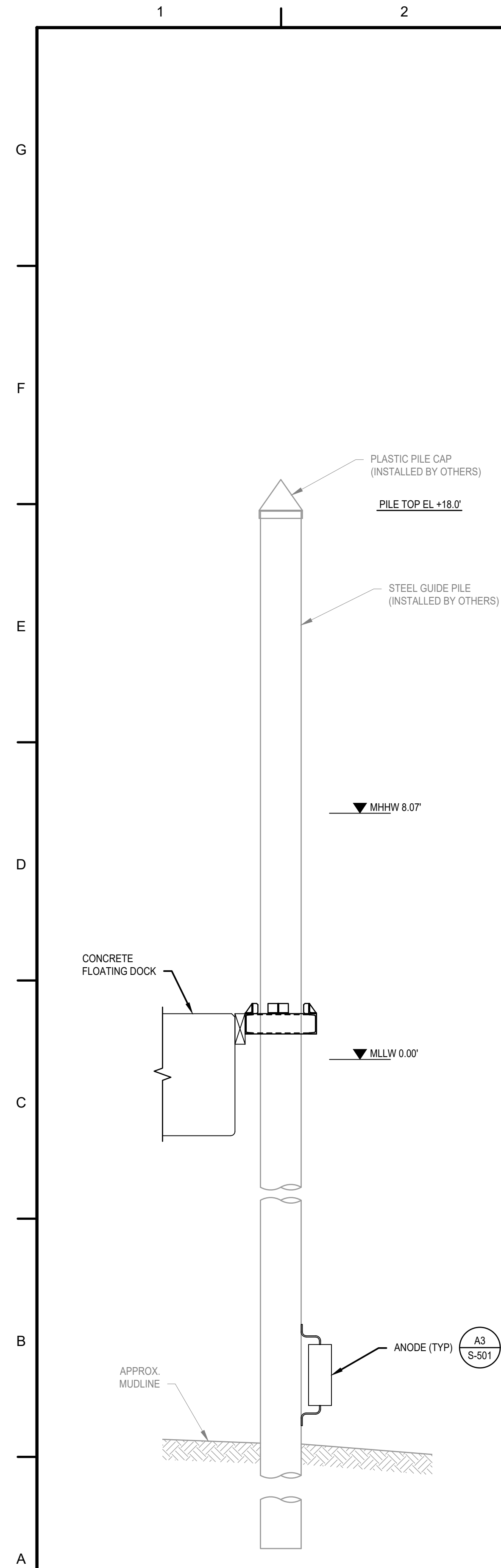
MARK	DESCRIPTION	DATE
FINAL		06/12/2026

A/E COMPANY: APPLIED MARINE ENGINEERING, LLC 1000 1ST AVE, NEW HAMPSHIRE (603) 788-1170	A/E PROJECT NO.: 6030A	CONSULTING A/E:
--	---------------------------	-----------------

USCG PROJECT NUMBER 27843489	USCG DRAWING SERIES NUMBER 027843489S-301	USCG PROJECT MANAGER: R. TYZER	DRAWN BY: SND
USCG FILENAME 027843489S-301.DWG	DESIGNED BY: ETL	EDITED BY: DJM	CHECKED BY: NJE
SHEET 09 OF 27			

REPAIR FLOATING DOCK #3 STATION CAPE DISAPPOINTMENT ILWACO	WASHINGTON
STRUCTURAL	
FLOATING DOCK SECTIONS	

SHEET ID FLOATING DOCK #3 S-301
--

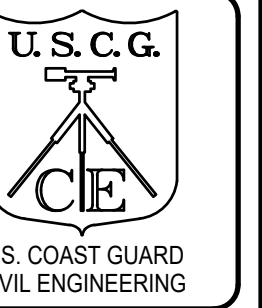
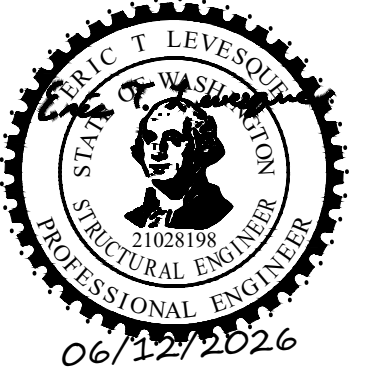
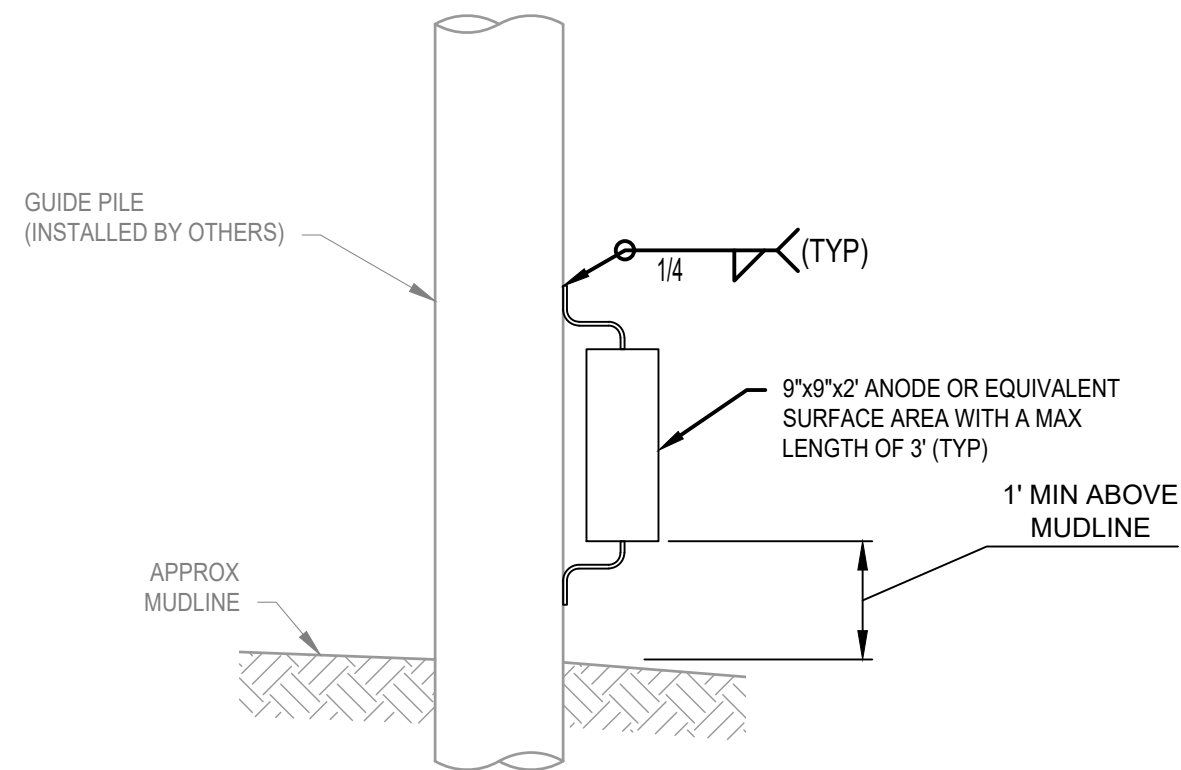


ANODE LOCATION

PILE ID	PILE SIZE	LOCATION
1	PP16x0.500	NORTH
2	PP16x0.500	NORTH
3	PP16x0.500	NORTH
4	PP16x0.500	NORTH
5	PP16x0.500	WEST
6	PP16x0.500	WEST
7	PP16x0.500	SOUTH
8	PP16x0.500	SOUTH
9	PP16x0.500	SOUTH
10	PP12.75x0.500	SOUTH
11	PP12.75x0.500	SOUTH
12	PP12.75x0.500	NORTH
13	PP12.75x0.500	NORTH

NOTES:

ANODE LOCATION REFERS TO WHICH SIDE OF THE PILE TO INSTALL THE ANODE.

[illegible]

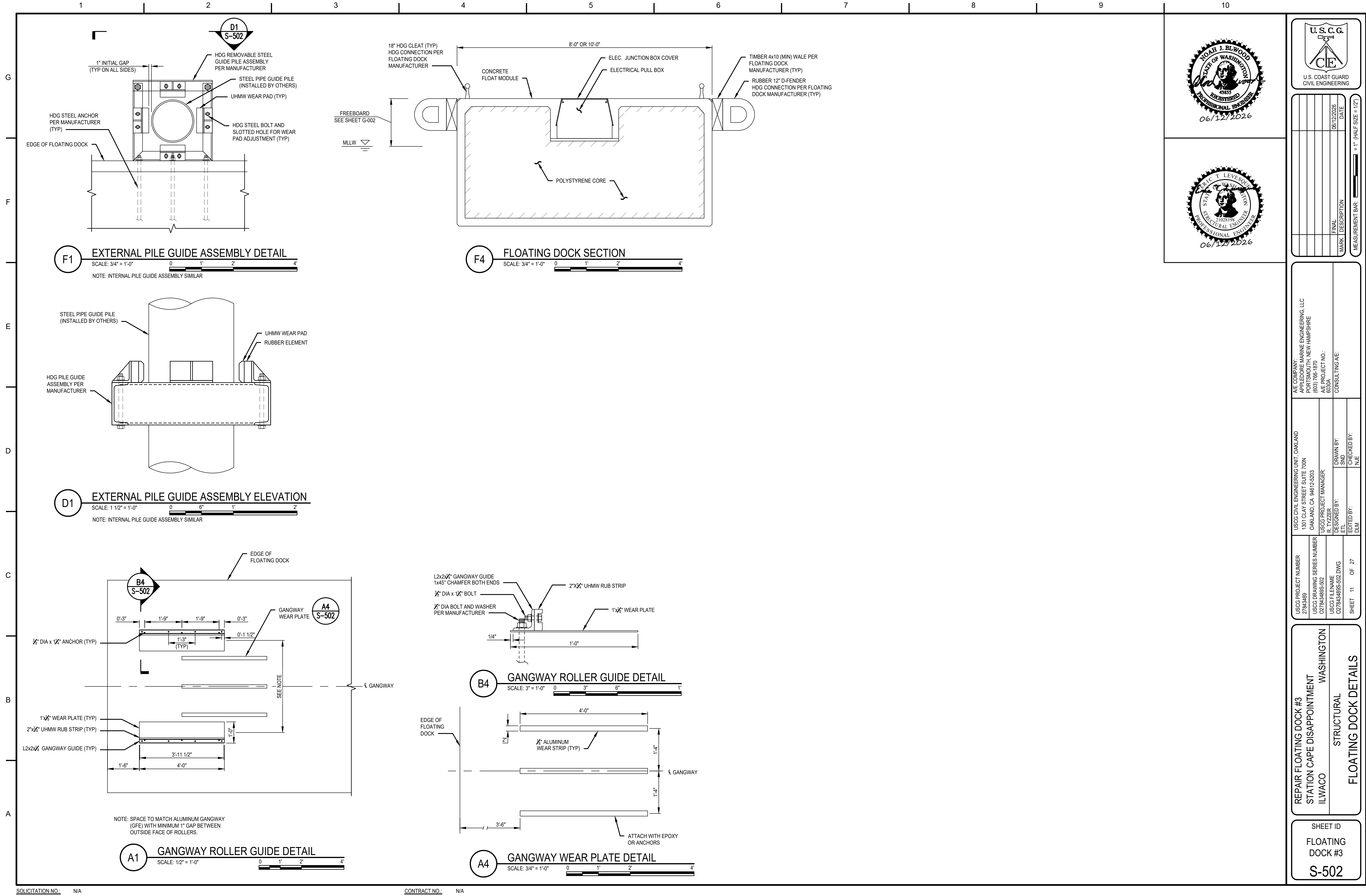
APPLEDORE MARINE ENGINEERING, LLC
PORTSMOUTH, NEW HAMPSHIRE
(603) 766-1870

1301 CLAY STREET SUITE 700N
OAKLAND, CA 94612-5203

USCG PROJECT NUMBER
27843489

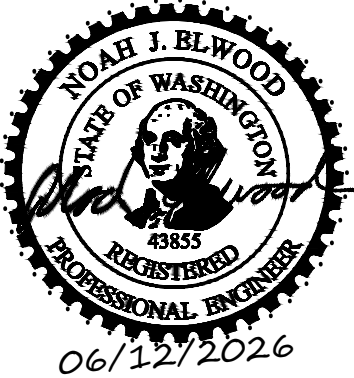
ILWACO	WASHINGTON
STATION CAPE DISAPPOINTMENT	
REPAIR FLOAING DOCK #3	
STRUCTURAL	
PILE DETAILS	

SHEET ID
FLOATING
DOCK #3
S-501



SOLICITATION NO.: N/A

CONTRACT NO.: N/A



MARK	DESCRIPTION	DATE
FINAL		06/12/2026

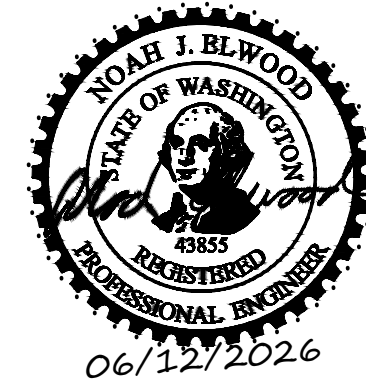
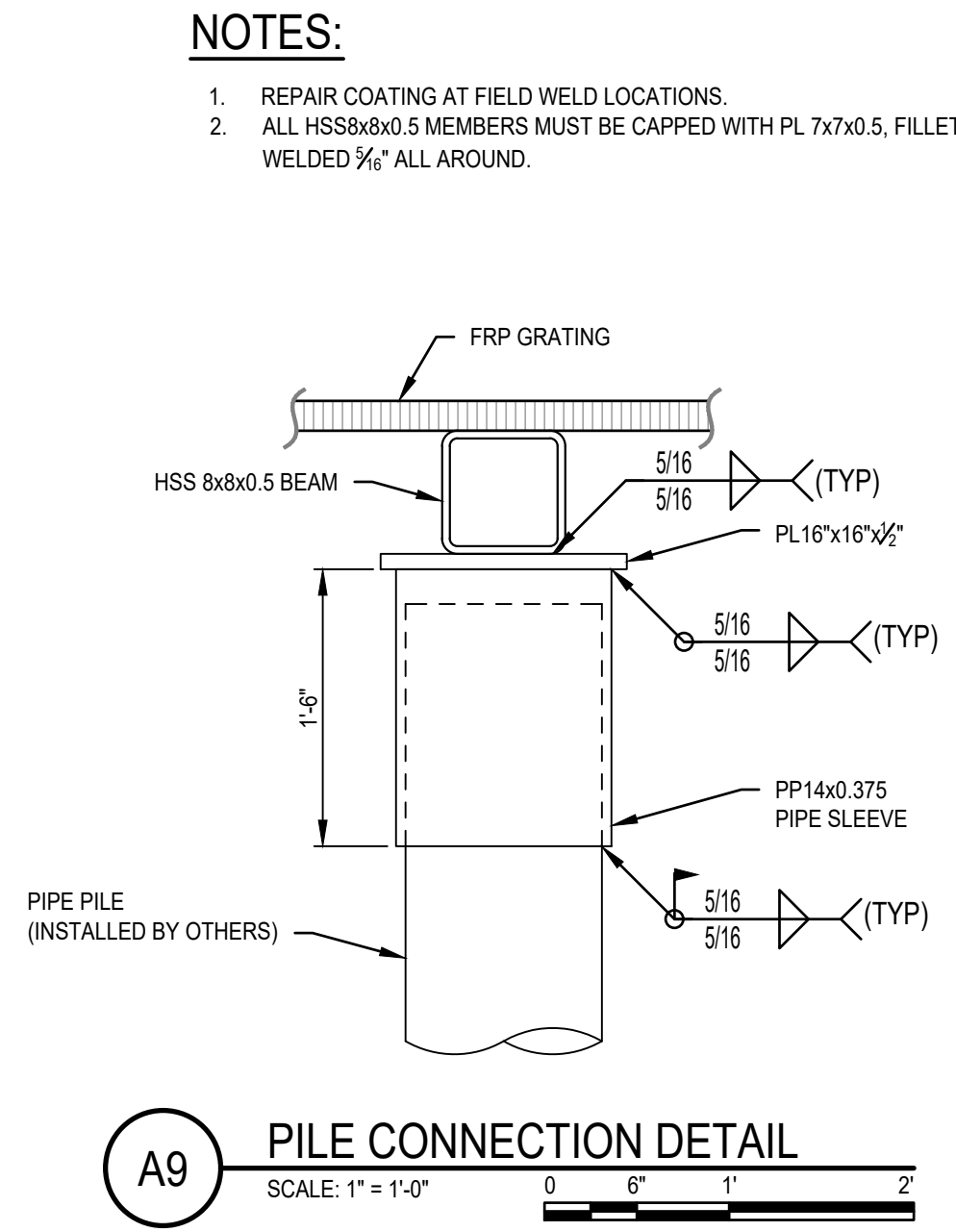
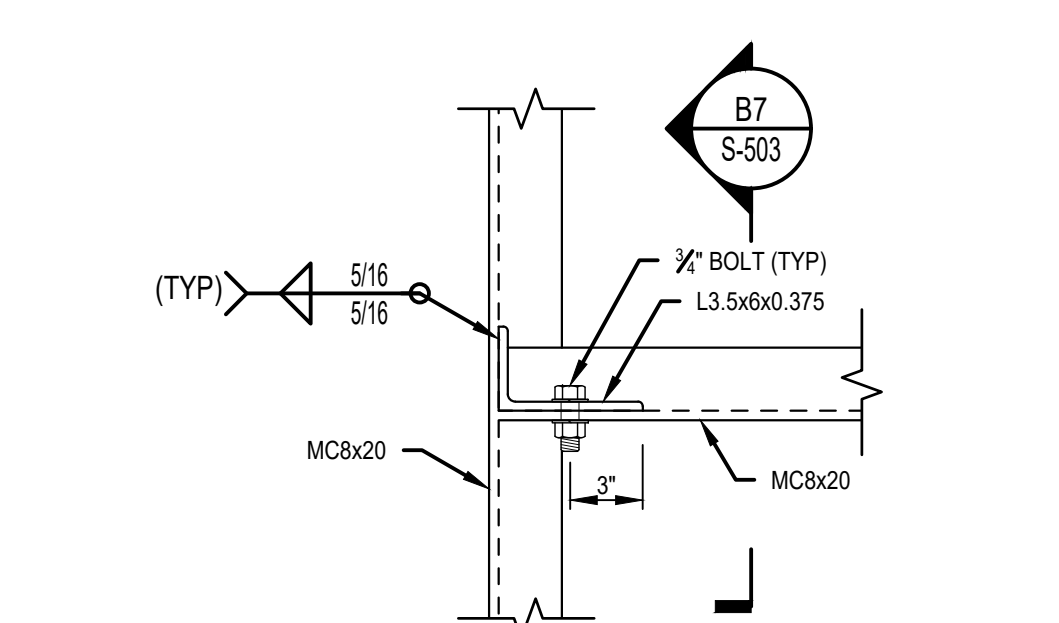
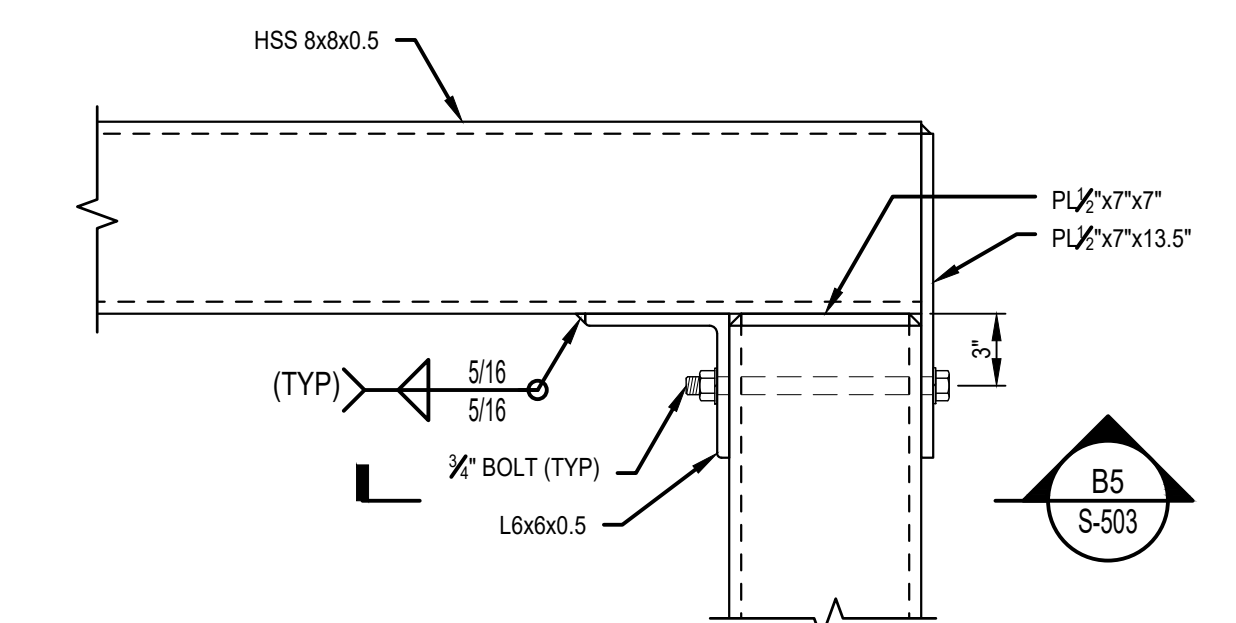
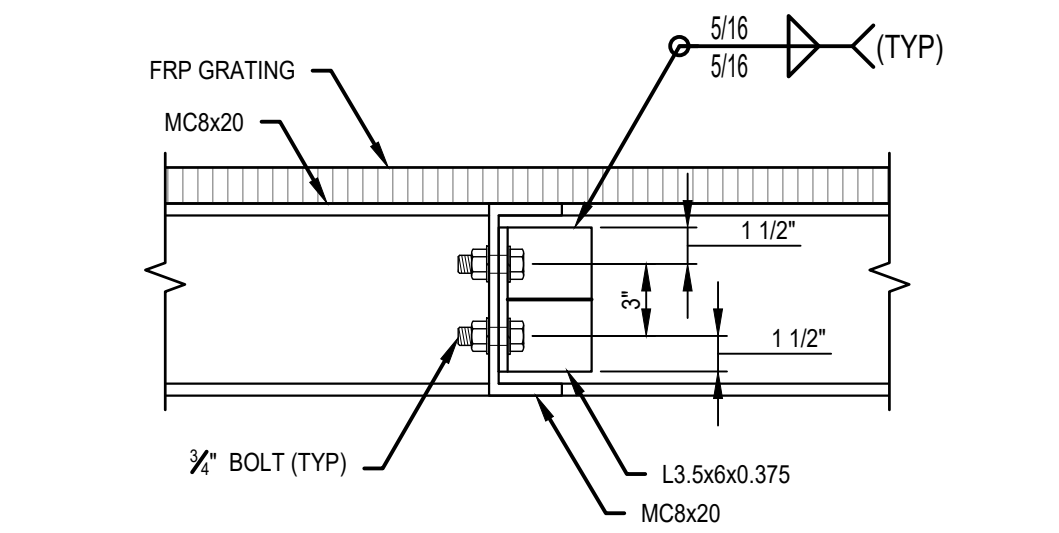
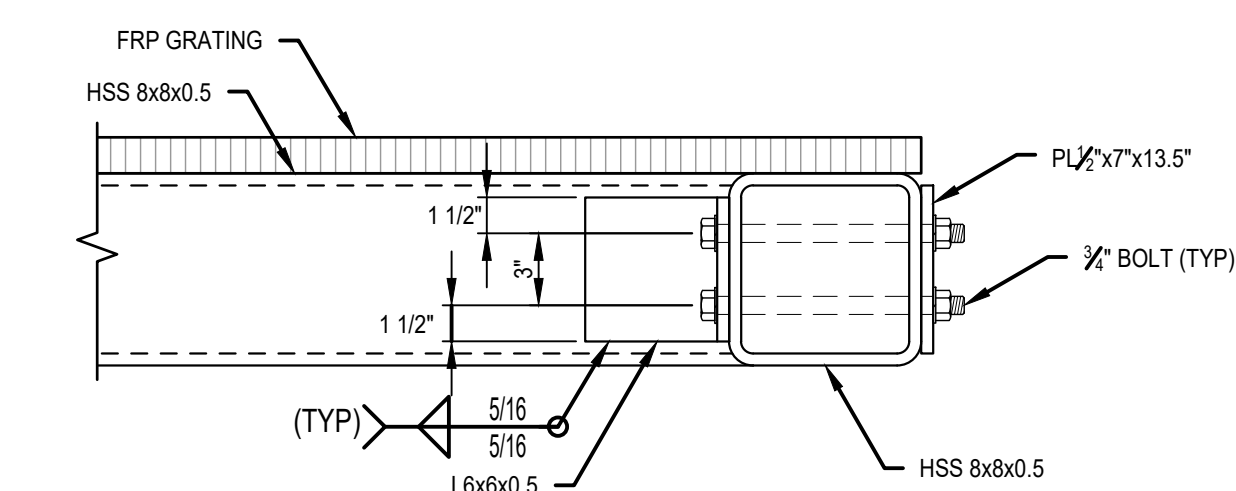
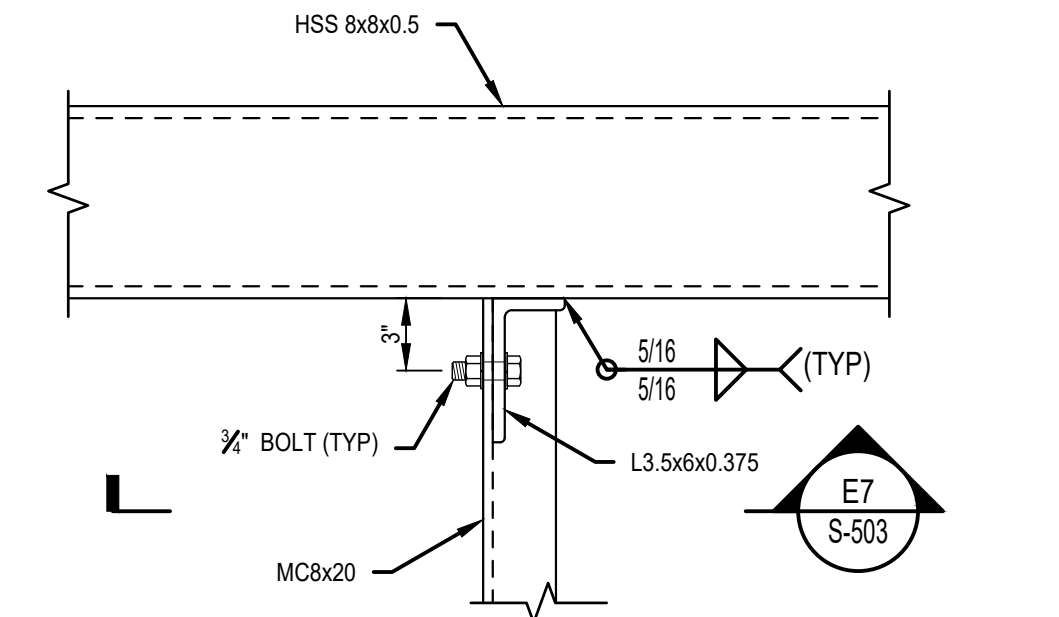
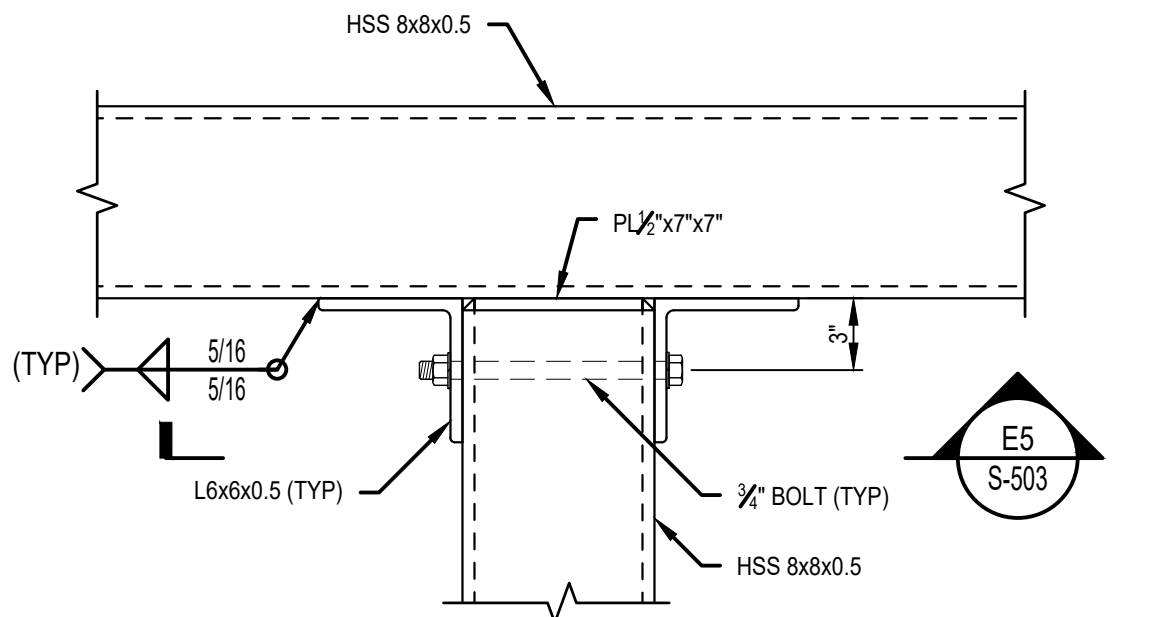
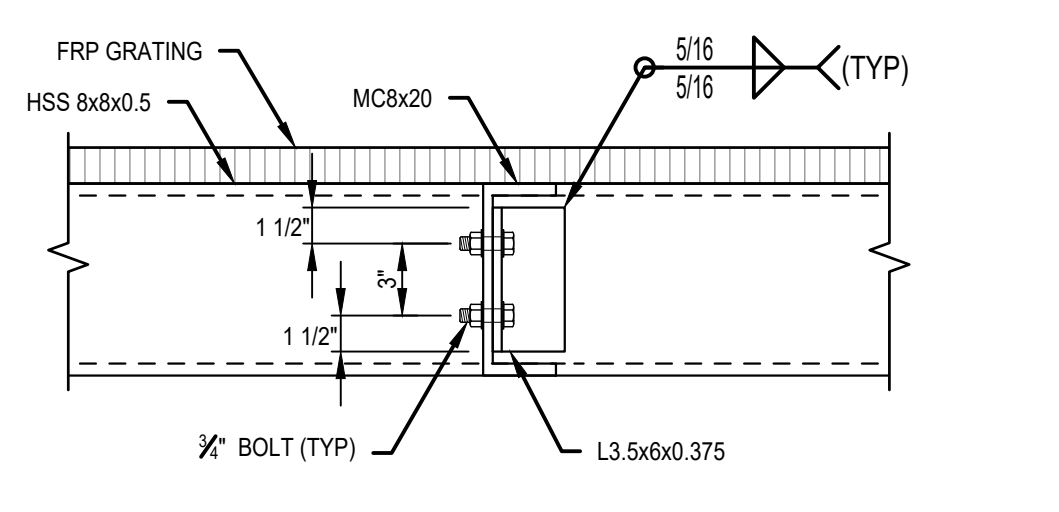
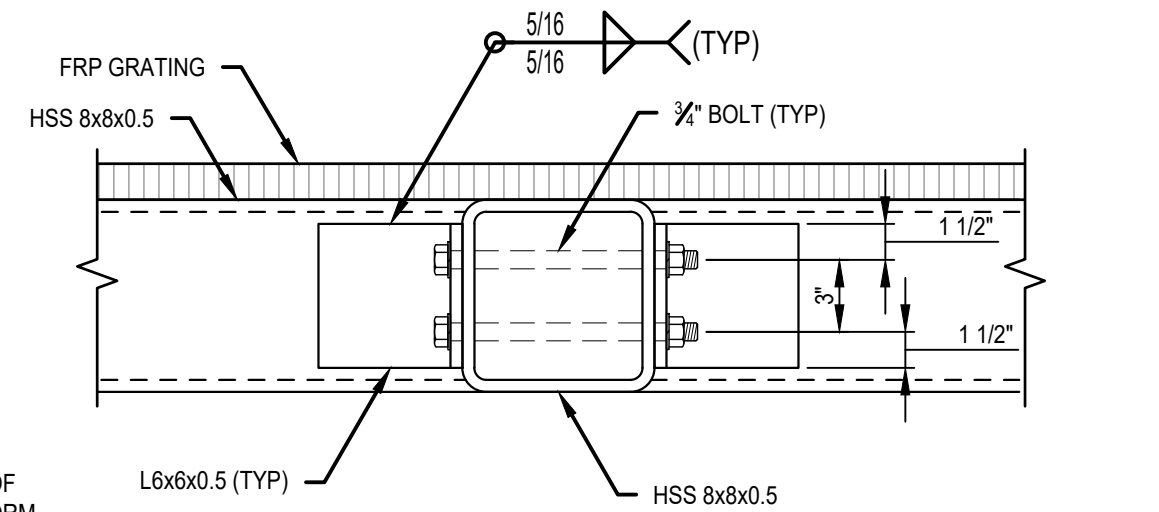
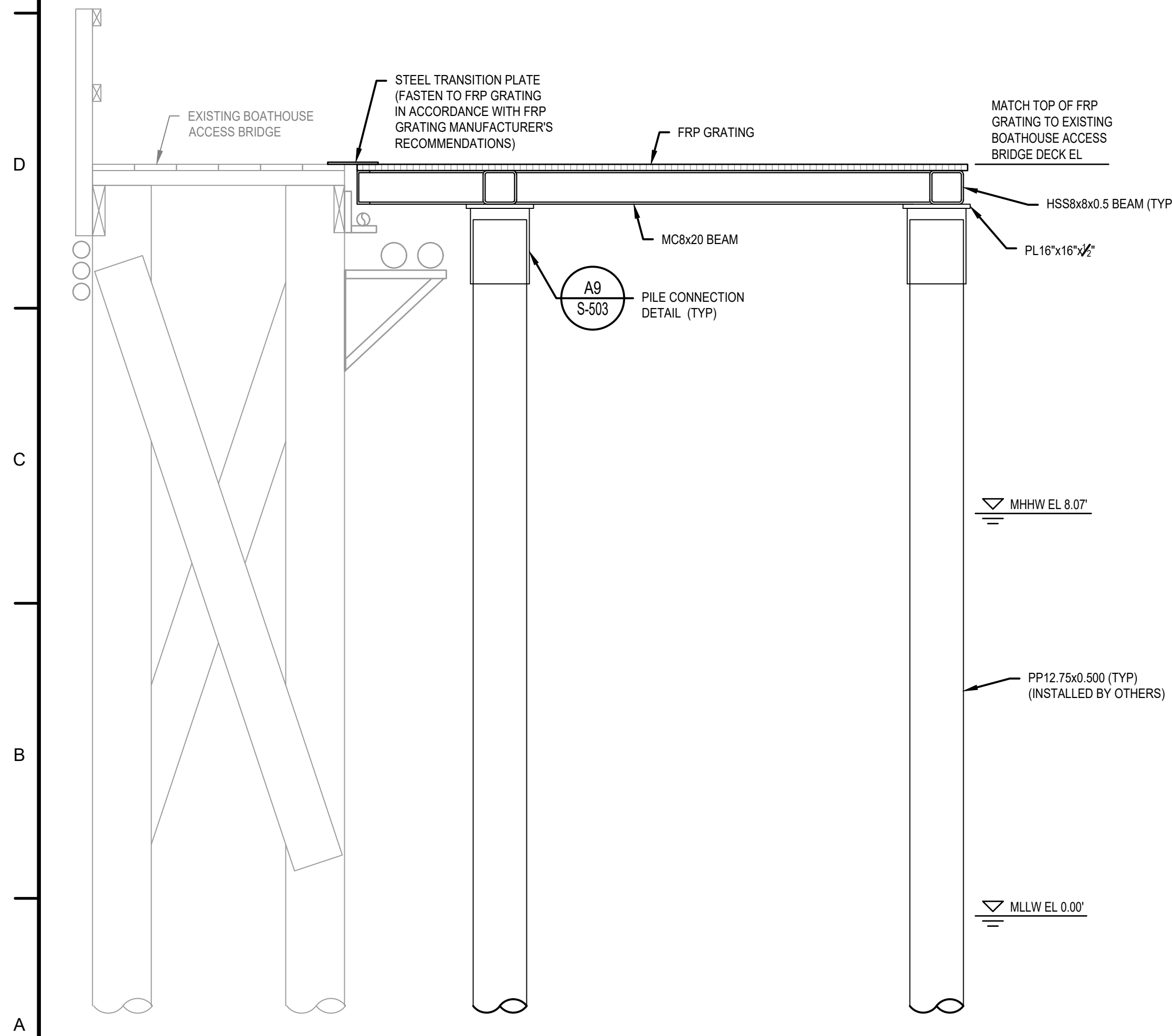
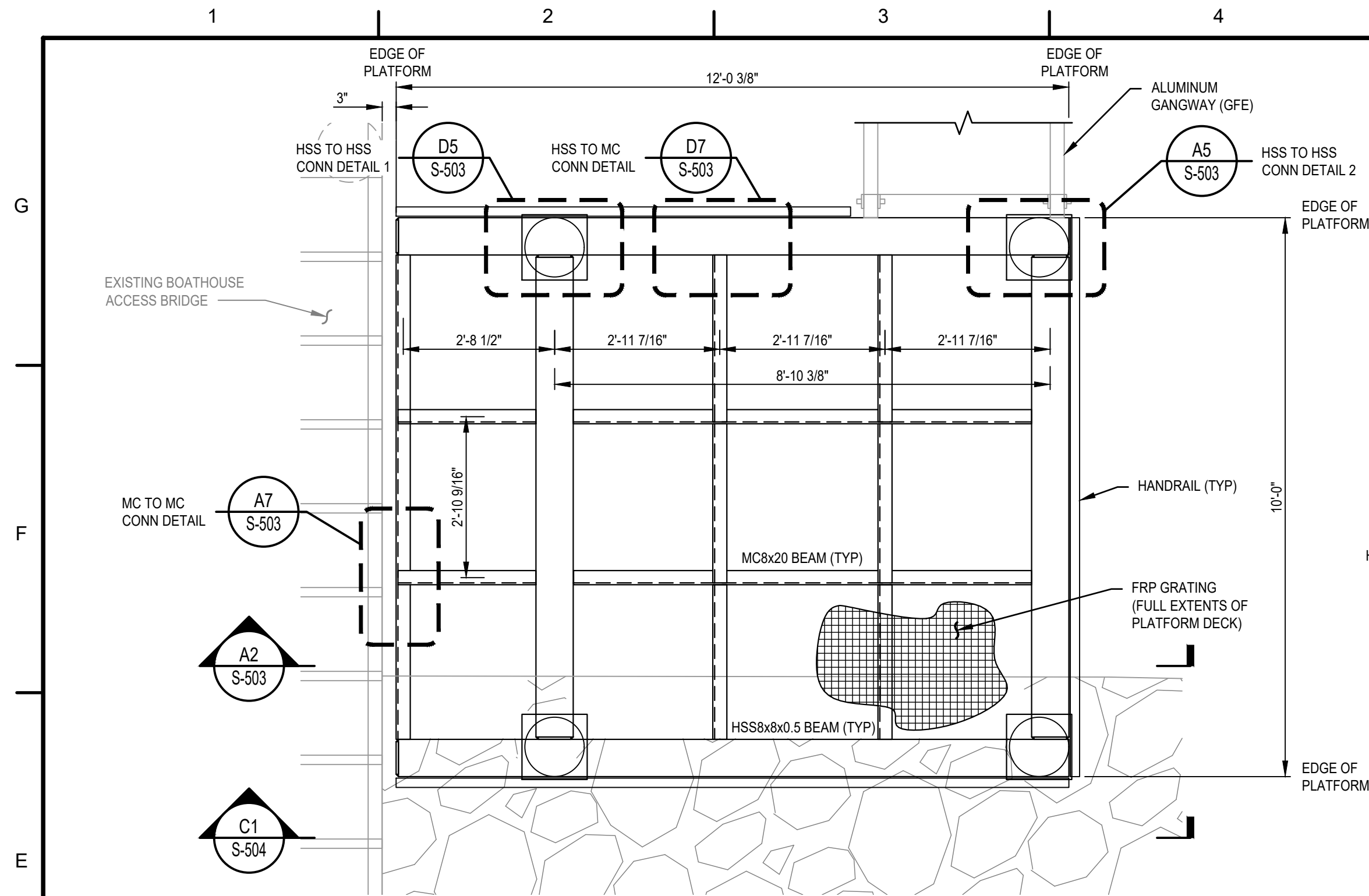
A/E COMPANY: APPLIED MARINE ENGINEERING, LLC
1301 CLAY STREET SUITE 700N
OAKLAND, CA 94612-5203
(931) 788-1370
A/E PROJECT NO.: 6030A
CONSULTING A/E:

USCG CIVIL ENGINEERING UNIT, OAKLAND
1301 CLAY STREET SUITE 700N
OAKLAND, CA 94612-5203
USCG PROJECT MANAGER:
R. TYZZER
DESIGNED BY: ETL
EDITED BY: DJM
DRAWN BY: SMD
CHECKED BY: NJE

USCG PROJECT NUMBER: 27843489
USCG DRAWING SERIES NUMBER: 027843489S-502
USCG FILENAME: 027843489S-502.DWG
SHEET 11 OF 27

REPAIR FLOATING DOCK #3
STATION CAPE DISAPPOINTMENT
ILWACO
WASHINGTON
STRUCTURAL
FLOATING DOCK DETAILS

SHEET ID
FLOATING DOCK #3
S-502



MARK	DESCRIPTION	DATE
FINAL		06/12/2026

A/E COMPANY:
APPLIED MARINE ENGINEERING, LLC
1301 CLAY STREET SUITE 700N
OAKLAND, CA 94612-5203
(931) 788-1370
A/E PROJECT NO.:
6030A
CONSULTING A/E:

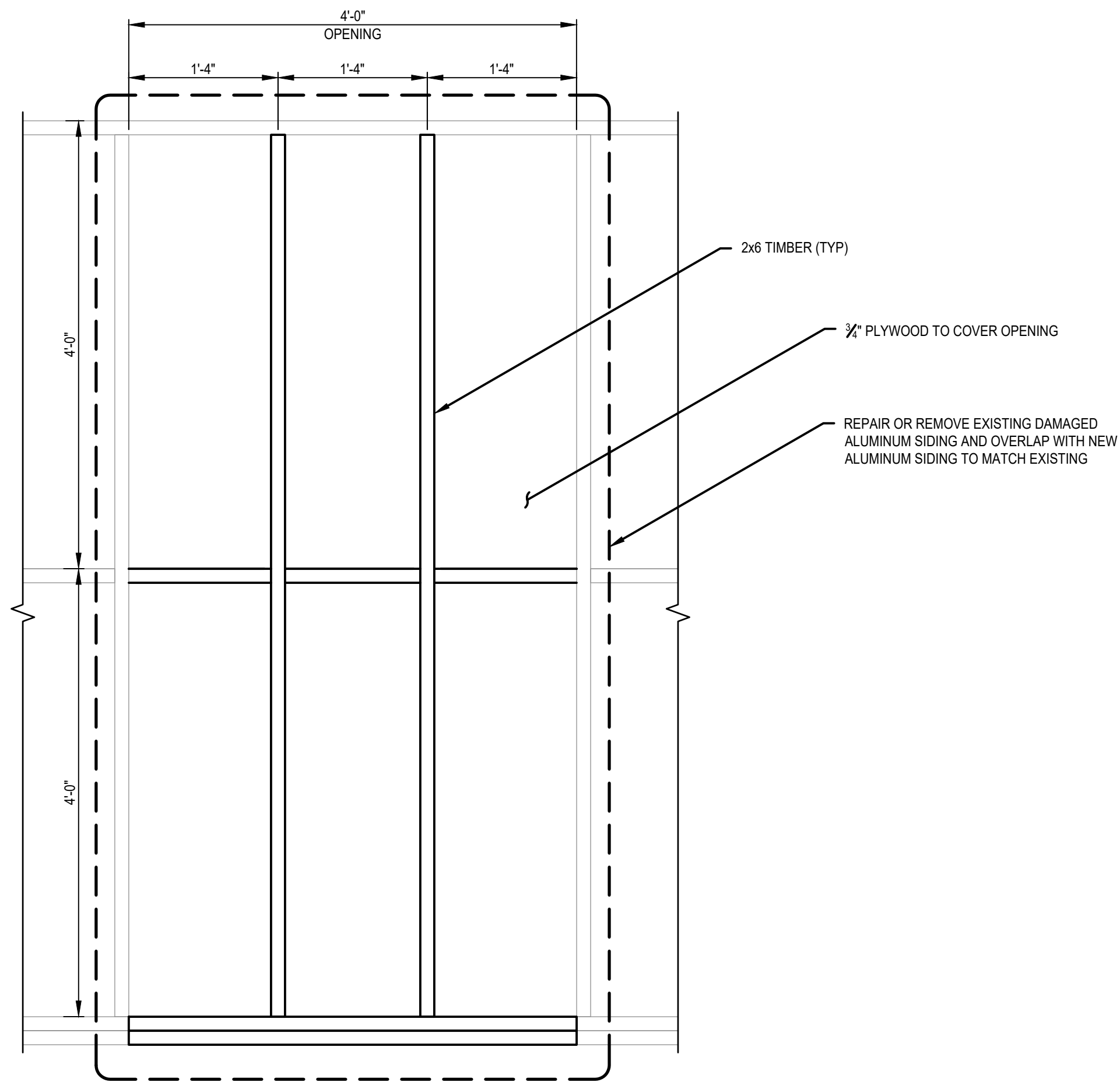
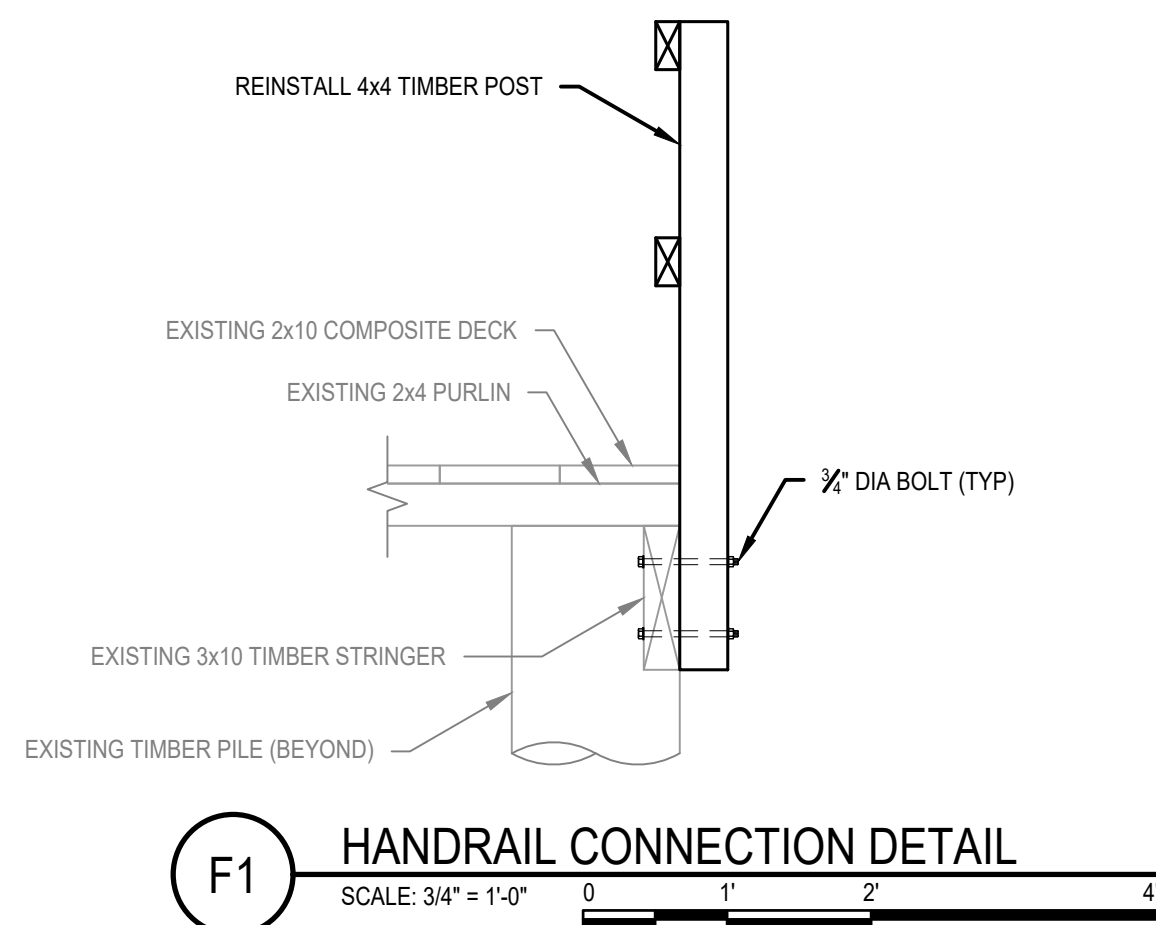
USCG CIVIL ENGINEERING UNIT, OAKLAND
1301 CLAY STREET SUITE 700N
OAKLAND, CA 94612-5203
USCG PROJECT MANAGER:
R. TIZZER
DESIGNED BY:
ETL
EDITED BY:
DLM
DRAWN BY:
SND
CHECKED BY:
JNE

USCG PROJECT NUMBER
27843489
USCG DRAWING SERIES NUMBER
027843489S-503
USCG FILENAME
027843489S-503.DWG
SHEET 12 OF 27

REPAIR FLOATING DOCK #3
STATION CAPE DISAPPOINTMENT
ILWACO
WASHINGTON
STRUCTURAL
GANGWAY PLATFORM DETAILS - 1

SHEET ID
FLOATING
DOCK #3
S-503

A

[illegible]

A/E COMPANY:
APPLEDORE MARINE ENGINEERING, LLC
PORTSMOUTH, NEW HAMPSHIRE

USCG CIVIL ENGINEERING UNIT, OAKLAND
1301 CLAY STREET SUITE 700N
OAKLAND, CA 94612-5000

USCG PROJECT NUMBER
27843489REPAIR FLOATING DOCK #3
STATION CAPE DISAPPOINTMENT

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WASHINGTON

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STRUCTURAL

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505

MISCELLANEOUS DETAILS

53G

MEASUREMENT BAR: = 1" (HALF SIZE = 1/2")

MEASUREMENT BAR:

DLM	NJE
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MISCELLANEOUS DETAILS

1

NOTES:

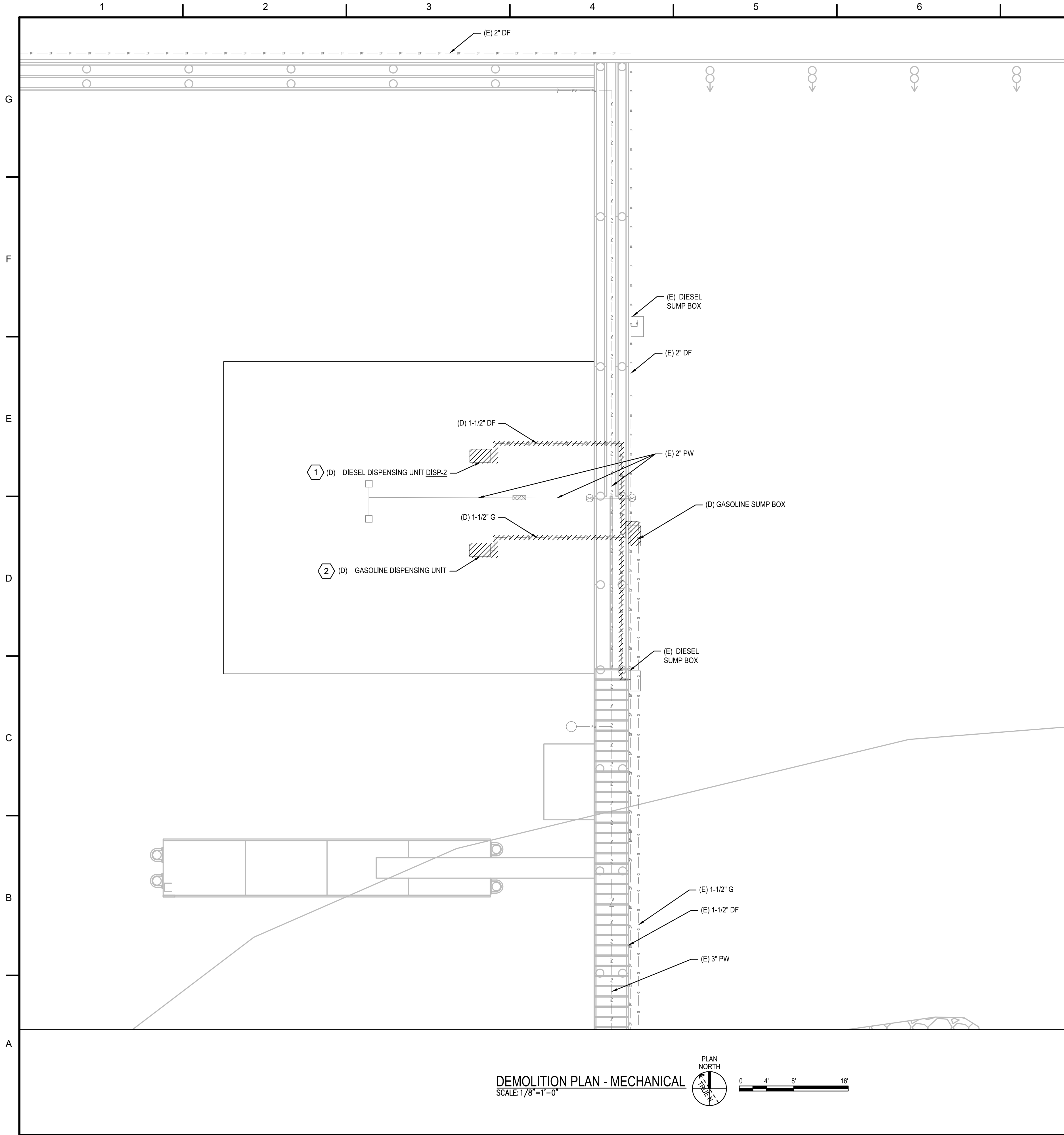
1. COVER EXISTING GANGWAY OPENING USING MATERIALS AND SIZES THAT MATCH THE EXISTING COVERED MOORING STRUCTURE.
2. EXISTING GANGWAY CONNECTION TO BE REMOVED. SEE SHEET SD501.
3. EXISTING UTILITIES THAT PASS THROUGH OPENING ARE TEMPORARY FOR STORAGE OF MECHANICAL AND ELECTRICAL EQUIPMENT AND ARE TO BE REMOVED. SEE MECHANICAL AND ELECTRICAL SHEETS.

\\US0305-PFSS01\SHARED_PROJECTS\204822948\01_WORKING_FILES\09_MECHANICAL\01_CAD\01_SHEETS\027843489M-001 Jun 12, 2026 8:40 AM By: LOURENCO\JASKAMP

MECHANICAL LEGEND				MECHANICAL ABBREVIATIONS								
G		2-WAY CONTROL VALVE		FEED PUMPS		PRESSURE/TEMPERATURE RELIEF VALVE	ABS	ACRYLONITRILE	IE	INVERT ELEVATION	TEMP	TEMPERATURE
		3-WAY CONTROL VALVE		FILTER CARTRIDGE		PRESSURE TRANSMITTER	AC	ASPHALT CONCRETE	IN	INCHES	THK	THICK
		AIR PARTICULATE FILTER		FIRE EXTINGUISHER CABINET		PRESSURE VACUUM VENT	ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS	IOM	INSTALLATION, OPERATION, AND MAINTENANCE	TI	TEMPERATURE INDICATOR
		AIR VENT		FLANGE		PRIORITY VALVE	ASTM	AMERICAN SOCIETY OF TESTING MATERIALS	IPLV	INTEGRATED PART LOAD VALUE	TYP	TYPICAL
		AUTOMATIC TANK GAUGE		FLEXIBLE PIPE CONNECTOR		PULSATION DAMPER	ISO	INTERNATIONAL ORGANIZATION FOR STANDARDIZATION	UL	ULTRA-HIGH-MOLECULAR WEIGHT POLYETHYLENE	UHMWPE	ULTRA-HIGH-MOLECULAR WEIGHT POLYETHYLENE
		AUTOMATIC AIR VENT		FLOW METER AND VALVE POSITION		PUMP	IWG	INCHES WATER GAUGE	ULSD	ULTRA LOW SULFUR DIESEL	UNO	UNLESS NOTED OTHERWISE
		AUTOMATIC DRAIN VALVE		FLOW METER/MONITOR		RECTANGULAR DUCT DIMENSIONS (INCHES)	KG	KILOGRAM	V, VOL	VOLTS	VAC	VOLTS AC POWER
		BACK PRESSURE VALVE		FLOW SWITCH		RECTANGULAR DUCT-WIDTH X DEPTH- (DOUBLE LINE)	KIPS	KILO POUNDS	VFD	VARIABLE FREQUENCY DRIVE	VPM	VARIABLE PHASE MODULATION
		BACKFLOW PREVENTER		FRESH OR SUPPLY AIR		REDUCED PRESSURE ZONE ASSEMBLY	KVA	KILO VOLT AMPERE	VSD	VARIABLE SPEED DRIVE	W	WIDTH, WEST
		BALANCE VALVE		FUEL FILL POINT		REGULATOR	KW	KILOWATT	W/	WITH	WC	WATER COLUMN
F		BALL VALVE		FUEL FILTER		RETURN DUCT DOWN/UP	L	LENGTH				
		BASIN WATER PUMP		GATE VALVE		RETURN OR EXHAUST AIR	LA	LEVEL ALARM				
		BRANCH-TOP CONNECTION - PIPE		GLOBE VALVE		RISE (R) DROP (D) IN DIRECTION OF FLOW	LBF	POUND-FORCE				
		BRANCH-BOTTOM CONNECTION-PIPE		GOOSE NECK VENT		RISER UP - PIPE	LBS	POUNDS				
		BUTTERFLY VALVE		HAND PUMP		RISER DOWN - PIPE	LBS/HR	POUNDS PER HOUR				
		CALIBRATION COLUMN		HIGH POINT VENT		ROUND DUCT	LH	LOW-HIGH				
		CAP		HUMIDITY SENSOR		ROUND DUCT DIMENSION	LL	LOW-LOW				
		CAPPED DUCTWORK		ISOLATION & BACKPRESSURE VALVES		SEISMIC JOINT	LP	LOW POINT				
		CENTER LINE		LIQUID LEVEL GAUGE		SHUT-OFF VALVE	LPS	LITERS PER SECOND				
		CENTRIFUGAL PUMP		LIQUID SEPARATOR		STATIC PRESSURE SENSOR	LWT	LEAVING WATER TEMPERATURE				
E		CHECK VALVE		LOW PRESSURE TRANSDUCER		SUPPLY DUCT DOWN/UP	MAX	MAXIMUM				
		CHILLED WATER PUMP		MANUAL BALANCE DAMPER		SURFACE MOUNTED RETURN/EXHAUST GRILLE	1000 BTUH	1000 BTUH				
		COALESCING FILTER		METERING PUMP		SURFACE MOUNTED SUPPLY GRILLE	MBH	MULTILAYER, WITH FIBER REINFORCED				
		CONCENTRIC (OR GENERIC) REDUCER		OPPOSED BLADE DAMPER		TEE	MF	MANUFACTURER				
		COOLING TOWER		OVERFILL PREVENTION VALVE		TEMPERATURE GAUGE	MFR	MANUFACTURER				
		DIFFERENTIAL PRESSURE SENSOR		PARALLEL BLADE DAMPER		TEMPERATURE INDICATOR	MIN	MINIMUM				
		DIRECT EXPANSION COOLING COIL		PIPE ANCHOR		TRANSITION	MM	MILLIMETER				
		DIRECTION OF FLOW-PIPE		PIPE CAP		UNION, COUPLING	MMPT	MALE NOMINAL PIPE THREAD				
		DOUBLE CHECK VALVE		PIPE GUIDE		VENT	MSS	MANUFACTURERS STANDARDIZATION SOCIETY				
		DOUBLE UNISTRUT SUPPORTS		PIPE SHOE		VOLUME DAMPER	N	NORTH				
D		DOWNWARD DIRECTION OF SLOPED PIPING		POINT OF CONNECTION		WYE STRAINER	N/A	NOT APPLICABLE				
		ELBOW		PRESSURE GAUGE		WYE-STRAINER WITH BLOWDOWN VALVE	NAOCL	SODIUM HYPOCHLORITE				
		ELECTRONIC FLOW SENSOR		PRESSURE GAUGE WITH NEEDLE VALVE			NO	NUMBER				
		EMERGENCY STOP		PRESSURE INDICATOR			NPSHA	NET POSITIVE SUCTION HEAD AVAILABLE				
		EXHAUST DUCT DOWN/UP		PRESSURE MONITOR			NPT	NATIONAL PIPE THREAD				
		EXTERIOR WALL HYDRANT		PRESSURE REGULATING VALVE			NTS	NOT TO SCALE				
		FAN					O2	OXYGEN				
							OD	OUTSIDE DIAMETER				
							ODP	OPEN DRIP PROOF				
							P	PRESSURE, GENERAL PROCESS				
C							P&ID	PIPING AND INSTRUMENT DIAGRAM				
							PAHH	PRESSURE ALARM HIGH HIGH				
							PALL	PRESSURE ALARM LOW LOW				
							PCF	POUNDS PER CUBIC FOOT				
							PE	POLYETHYLENE				
							PH	PHASE				
							pH	POTENTIAL OF HYDROGEN				
							PI	PRESSURE INDICATOR				
							POC	POINT OF CONNECTION				
							PP-RCT	POLYPROPYLENE RANDOM COPOLYMER WITH MODIFIED CRYSTALLINITY AND TEMPERATURE RESISTANCE				
B							PPR	POLYPROPYLENE COPOLYMER				
							PPT	PART PER TRILLION				
							PSI	POUNDS PER SQUARE INCH				
							PSID	POUNDS PER SQUARE INCH DIFFERENTIAL				
							PSIG	POUNDS PER SQUARE INCH GAUGE				
							PTFE	POLYTETRAFLUOROETHYLENE				
							PVC	POLYVINYL CHLORIDE				
							PW	POTABLE WATER				
							QTY	QUANTITY				
							R	REMOVE, RISE OF DUCT				
A							(R)	RELOCATE				
							RC	RISK CATEGORY				
							REF	REFRIGERANT				
							RPM	REVOLUTIONS PER MINUTE				
							S	SOUTH				
							SCADA	SUPERVISORY CONTROL AND DATA ACQUISITION				
							SCH	SCHEDULE				
							SDR	STANDARD DIMENSION RATIO				
							SF	SQUARE FEET				
							SIM	SIMILAR				
GENERAL SYMBOLS DETAIL CALLOUT KEYNOTE POINT OF CONNECTION REMOVE EXISTING EQUIPMENT AND PIPING												

REPAIR FLOATING DOCK #3 STATION CAPE DISAPPOINTMENT ILWACO	WASHINGTON CIVIL UTILITY LEGENDS AND ABBREVIATIONS
SHEET ID FLOATING DOCK #3 M-001	U.S. COAST GUARD CIVIL ENGINEERING

\\US0305-PFFSS01\SHARED_PROJECTS\204822948\01_WORKING_FILES\09_MECHANICAL\01_CAD\01_SHEETS\027843489\MD101 Jun 12, 2026 8:41 AM By: LOURENCO\ALASKAMP



GENERAL NOTES:

1. THE CONTRACTOR MUST COORDINATE WORK WITH OTHER TRADES PRIOR TO FABRICATION AND INSTALLATION TO PREVENT CONFLICTS. NOTIFY CONTRACTING OFFICER WHERE CONFLICTS ARE DISCOVERED PRIOR TO CONSTRUCTION AND BEFORE BEGINNING WORK IN THOSE AREAS. ALL CONFLICTS THAT ARISE DUE TO LACK OF COORDINATION SHALL BE RECTIFIED BY THE CONTRACTOR AT NO COST TO THE GOVERNMENT.
2. NOT ALL EXISTING CONDITIONS HAVE BEEN SHOWN. FIELD VERIFY EXISTING CONDITIONS PRIOR TO BIDDING.
3. PROTECT WORK AND EXISTING CONDITIONS ASSOCIATED WITH THIS CONTRACT FROM DAMAGE. COVER ENDS OF PIPING AND SYSTEM COMPONENTS NOT ACTIVELY BEING WORKED ON. REPAIR OR REPLACE ANY DAMAGED ITEMS THAT OCCUR DURING CONSTRUCTION.
4. DEMOLISH SYSTEM COMPONENTS, VALVES, EQUIPMENT, DUCTWORK, PIPING, HANGERS, CONTROLS, AND ASSOCIATED EXISTING SYSTEMS AS REQUIRED. CONTRACTOR SHALL COORDINATE DEMOLITION WITH EXISTING SYSTEMS AND COMPONENTS TO REMAIN PRIOR TO WORK COMMENCING.
5. CLEAN UP DEBRIS FROM SITE AT THE END OF EACH WORK DAY AND DISPOSE OF EITHER IN LAY DOWN RECYCLE BINS OR OFFSITE.

KEYNOTES:

- 1 DEMOLISH DIESEL DISPENSING UNIT AND ASSOCIATED PIPING AFTER INSTALLATION OF NEW DISPENSING UNIT.
- 2 DEMOLISH EXISTING GASOLINE DISPENSING UNIT AND ASSOCIATED PIPING AFTER INSTILLATION OF NEW GASOLINE DISPENSING UNIT.



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A/E COMPANY: APPLIED MARINE ENGINEERING, LLC
1301 CLAY STREET SUITE 700N
OAKLAND, CA 94612-5203
(931) 284-1170
A/E PROJECT NO.: 6030A
CONSULTING A/E: STANTEC
LYNNWOOD, WA

USCG CIVIL ENGINEERING UNIT, OAKLAND
1301 CLAY STREET SUITE 700N
OAKLAND, CA 94612-5203
USCG PROJECT MANAGER: R. TYZER
DESIGNED BY: ADR
EDITED BY: PS
DRAWN BY: JLV
CHECKED BY: PS

USCG PROJECT NUMBER: 27843489
USCG DRAWING SERIES NUMBER: 027843489MD101
USCG FILENAME: 027843489MD101.DWG
SHEET 16 OF 27

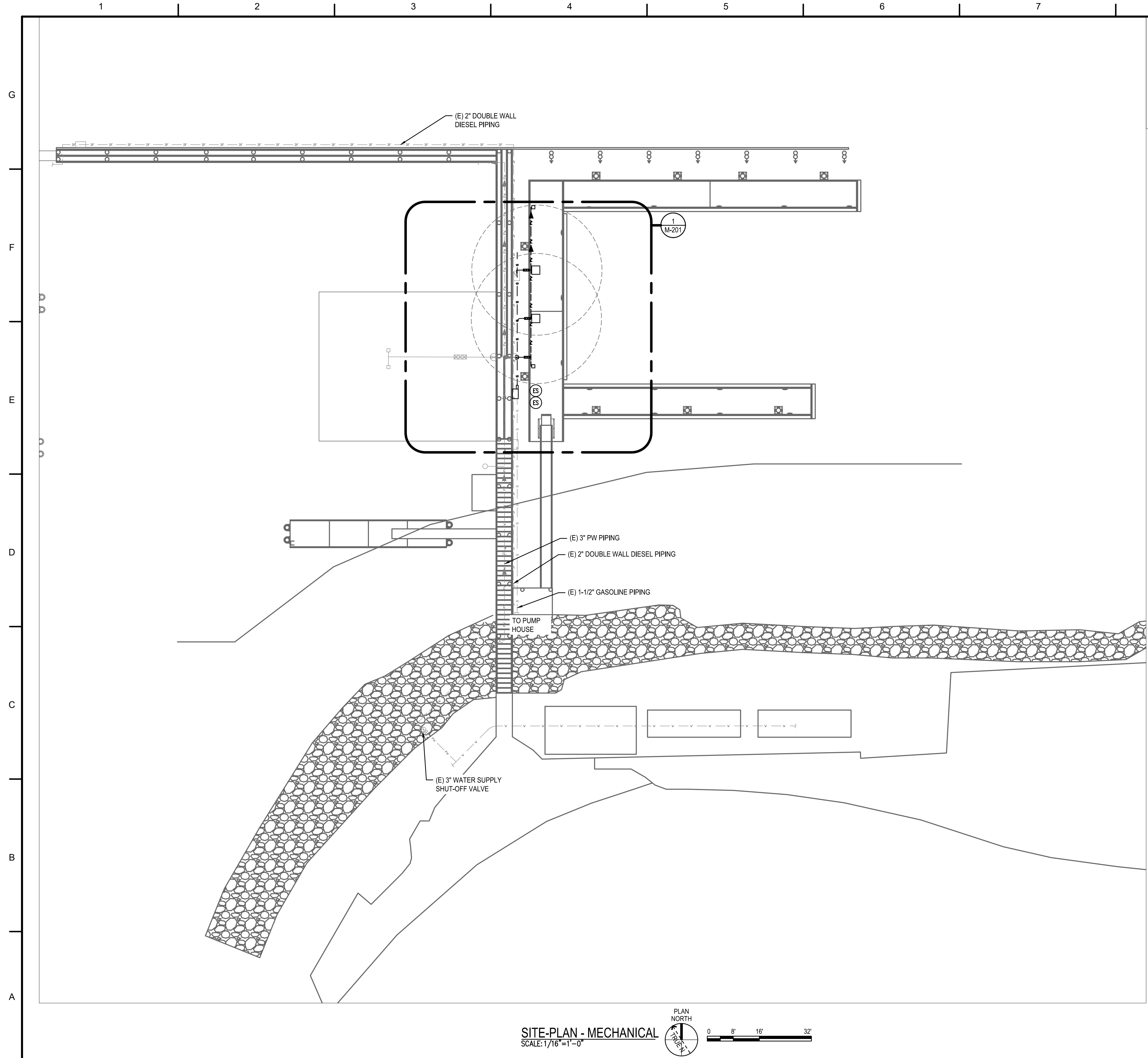
REPAIR FLOATING DOCK #3
STATION CAPE DISAPPOINTMENT
ILWACO
WASHINGTON
CIVIL UTILITY
DEMOLITION PLAN - MECHANICAL

SHEET ID
FLOATING DOCK #3
MD101

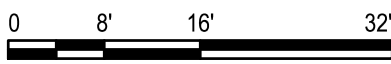
SOLICITATION NO.: N/A

CONTRACT NO.: N/A

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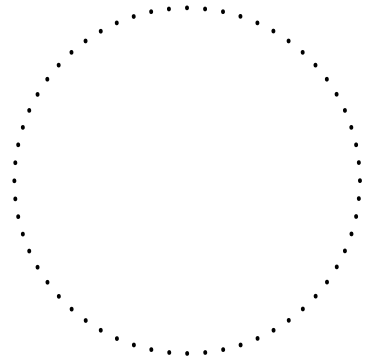


SITE-PLAN - MECHANICAL
SCALE: 1/16" = 1'-0"



GENERAL NOTES:

- EMERGENCY STOP BUTTON SHOULD BE NO CLOSER THAN 20 FT AND NO FURTHER THAN 100 FT FROM EACH DISPENSER. AN ADDITIONAL EMERGENCY STOP BUTTON SHALL BE INSTALLED ON-SHORE IF ONE DOES NOT EXIST.
- FUEL PIPING FROM LAST SUMP TO DISPENSERS SHOULD BE MARINA-TYPE FLEXIBLE PIPING SUCH THAT DOUBLE-WALL CONTAINMENT IS PROVIDED BETWEEN DISPENSERS AND SUMPS THAT IS RATED FOR IMPACT.



MARK	DESCRIPTION	DATE
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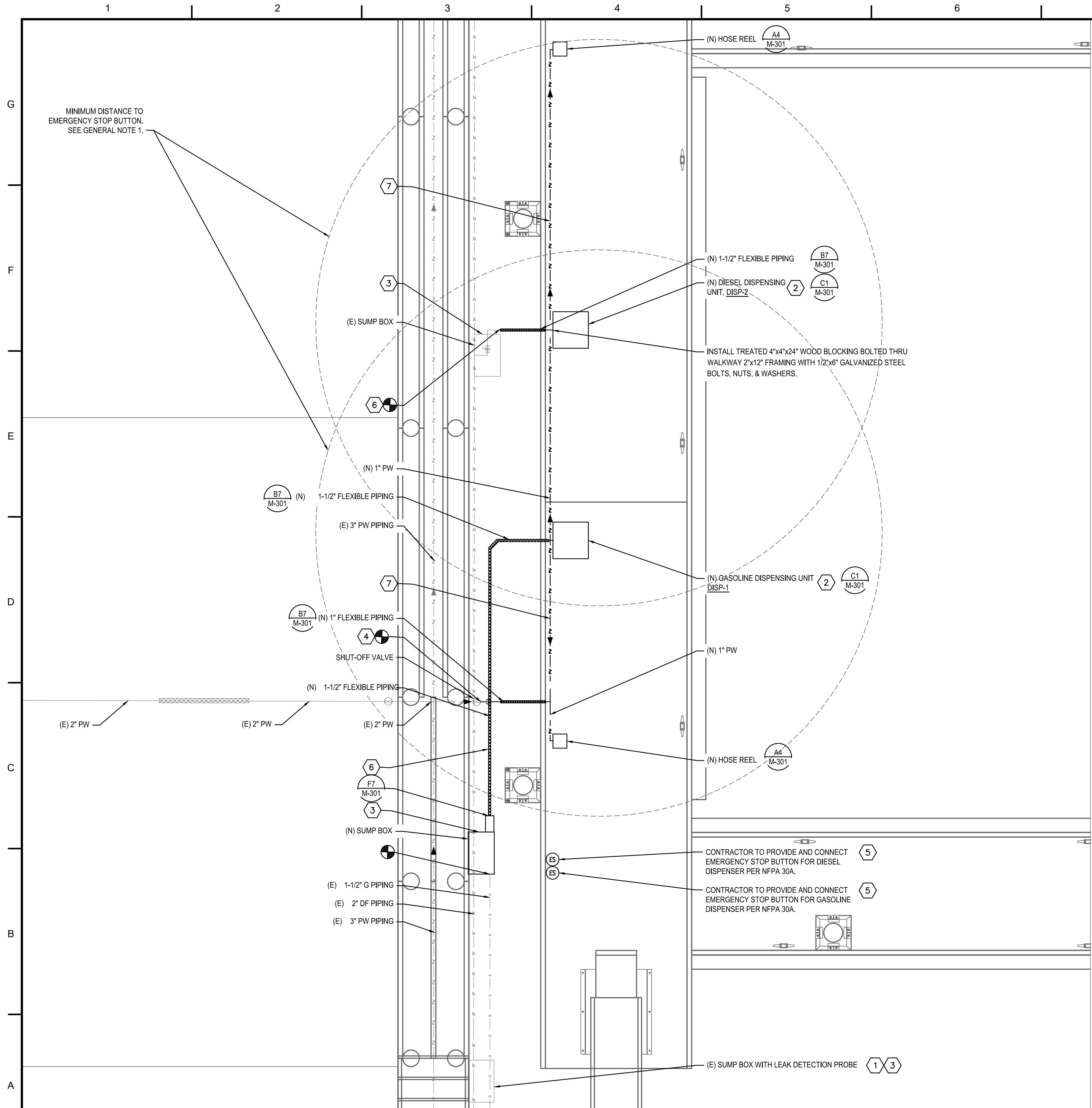
A/E COMPANY: APPLIED MARINE ENGINEERING, LLC 1301 CLAY STREET SUITE 700N OAKLAND, CA 94612-5203 A/E PROJECT NO.: 6030A	CONSULTING A/E: STANTEC LYNNWOOD, WA
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USCG CIVIL ENGINEERING UNIT, OAKLAND 1301 CLAY STREET SUITE 700N OAKLAND, CA 94612-5203 USCG PROJECT MANAGER: R. TYZZER	DRAWN BY: JLV	CHECKED BY: PS
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USCG PROJECT NUMBER 27843489	USCG DRAWING SERIES NUMBER 027843489M-101	USCG FILENAME 027843489M-101.DWG	SHEET 17 OF 27
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REPAIR FLOATING DOCK #3 STATION CAPE DISAPPOINTMENT ILWACO	WASHINGTON CIVIL UTILITY SITE PLAN - MECHANICAL
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SHEET ID FLOATING DOCK #3 M-101
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SOLICITATION NO.: N/A

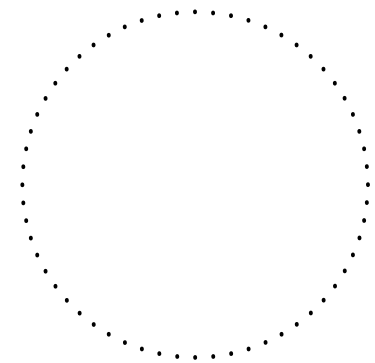
CONTRACT NO.: N/A

GENERAL NOTES:

1. EMERGENCY STOP BUTTON SHOULD BE NO CLOSER THAN 20 FT AND NO FURTHER THAN 100 FT FROM EACH DISPENSER, AN ADDITIONAL EMERGENCY STOP BUTTON SHALL BE INSTALLED ON-SHORE IF ONE DOES NOT EXIST.
2. FUEL PIPING FROM LAST SUMP TO DISPENSERS SHOULD BE MARINA-TYPE FLEXIBLE PIPING SUCH THAT DOUBLE-WALL CONTAINMENT IS PROVIDED BETWEEN DISPENSERS AND SUMPS THAT IS RATED FOR IMPACT.
3. ALL EMERGENCY SHUTOFF DEVICES ARE TO BE INSTALLED PER NFPA 30A AND MUST ISOLATE FLUID TRANSFER, INTERCONNECT AND RESET PER MANUFACTURER AND CODE REQUIREMENTS. PAINT EMERGENCY SHUTOFF DEVICES TO MATCH SERVICE PIPING COLOR. COORDINATE WITH USCG PERSONNEL.

KEYNOTES:

- 1 CONTRACTOR TO FIELD VERIFY THAT EXISTING SUMP IS IN OPERATING CONDITION. CONTRACTOR TO NOTIFY USCG ABOUT OPERABILITY.
- 2 PROVIDE NEW FLOW METER FM-2 AT DISP-2.
- 3 CONTRACTOR TO INSPECT (E) LEAK DETECTION SYSTEM FOR OPERATION AND CONNECTION POINTS. CONTRACTOR SHALL REUSE (E) EXISTING SYSTEM FOR NEW SENSORS. CONTRACTOR TO NOTIFY USCG ABOUT OPERABILITY.
- 4 CONTRACTOR TO COORDINATE POTABLE WATER PIPE ROUTING WITH STRUCTURAL PLANS AND COAST GUARD REPRESENTATIVE .
- 5 SIGNAGE LETTERING SHALL BE 2" AND LABELED "EMERGENCY FUEL SHUTOFF".
- 6 CONTRACTOR TO PROVIDE UV RESISTANT MARINA-RATED DOCK FUEL PIPING.
- 7 PIPING SUPPORT SPACING NO MORE THAN 5 FEET.

[illegible]

A/E COMPANY:
APPLIEDORE MARINE ENGINEERING, LLC
PORTSMOUTH, NEW HAMPSHIRE

USCG CIVIL ENGINEERING UNIT, OAKLAND
1301 CLAY STREET SUITE 700N
OAKLAND, CA 94612-5202

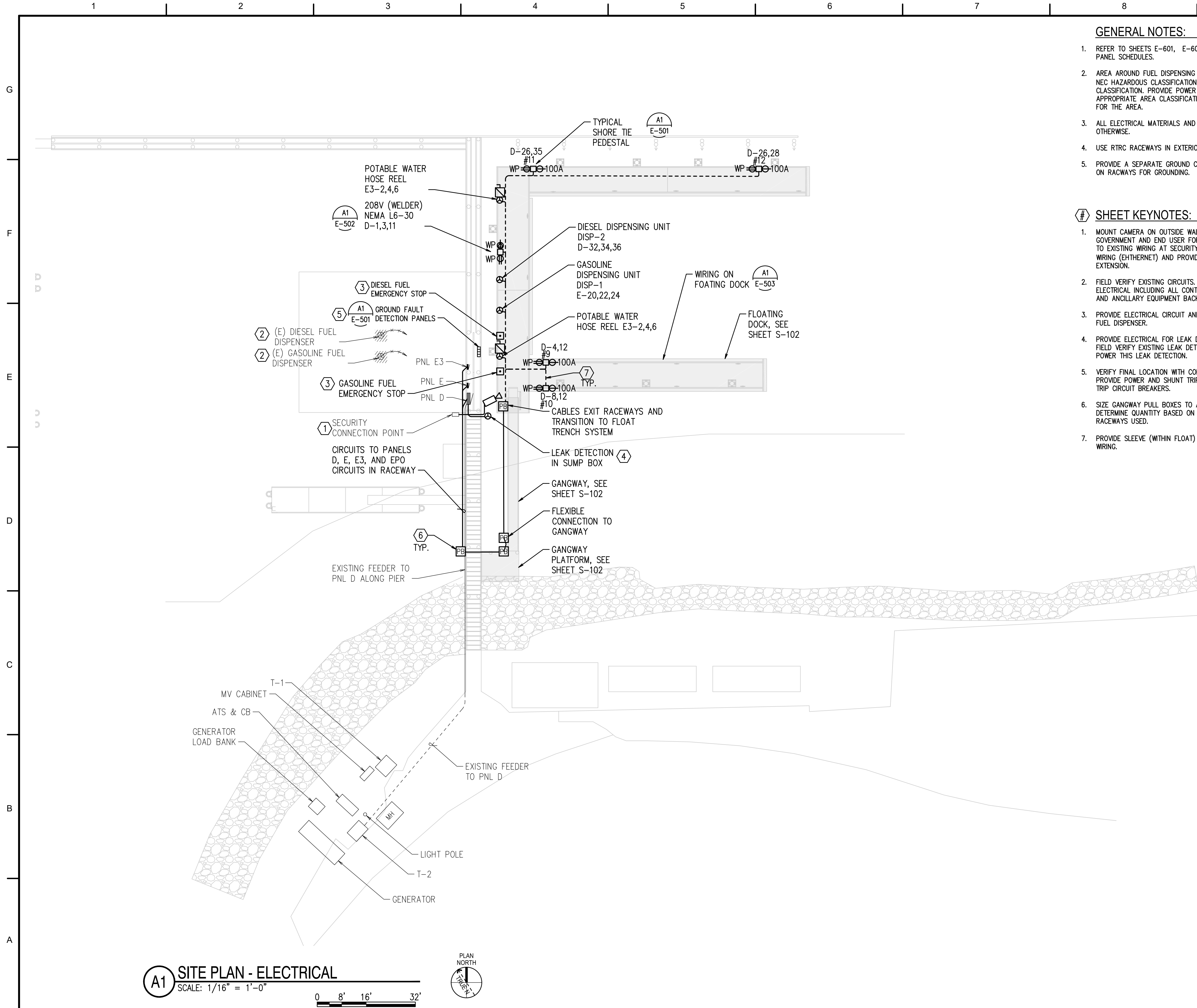
USCG PROJECT NUMBER
27843489

REPAIR FLOATING DOCK #3
STATION CAPE DISAPPOINTMENT
ILWACO WASHINGTON

SHEET ID
FLOATING
DOCK #3
M-201

ENLARGED PLAN - MECHANICAL

\\US0305-PFSS01\SHARED_PROJECTS\20482248\C_COORDINATION\02_OUT\2026-0612_ELEC_DRAWINGS\02784348E101 Jun 12, 2026 9:27 AM By: SHENGJISH



A1 SITE PLAN - ELECTRICAL
SCALE: 1/16" = 1'-0"
0 8' 16' 32'



GENERAL NOTES:

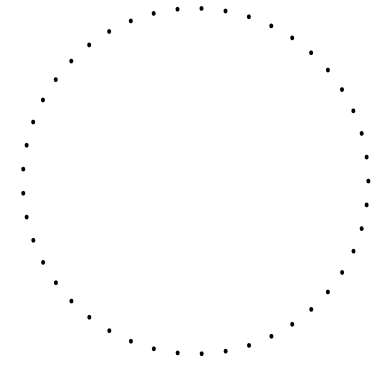
1. REFER TO SHEETS E-601, E-602, AND E-603 FOR ONE-LINE DIAGRAM AND PANEL SCHEDULES.
2. AREA AROUND FUEL DISPENSING UNITS AND WITHIN THE FLOAT TRENCHES ARE NEC HAZARDOUS CLASSIFICATION. SEE DETAIL A1/E-503 FOR AREA CLASSIFICATION. PROVIDE POWER AND CONTROL WIRING CONFORMING TO THE APPROPRIATE AREA CLASSIFICATION. ALL WIRING METHODS SHALL BE SUITABLE FOR THE AREA.
3. ALL ELECTRICAL MATERIALS AND EQUIPMENT ARE NEW UNLESS NOTED OTHERWISE.
4. USE RTRC RACEWAYS IN EXTERIOR LOCATIONS ON PIERS AND GANGWAYS.
5. PROVIDE A SEPARATE GROUND CONDUCTOR IN ALL RACEWAYS. DO NOT RELY ON RACWAYS FOR GROUNDING.

SHEET KEYNOTES:

1. MOUNT CAMERA ON OUTSIDE WALL OF COVERED WALKWAY. COORDINATE WITH GOVERNMENT AND END USER FOR AIMING AT DOCK AREA. RECONNECT CAMERA TO EXISTING WIRING AT SECURITY CONNECTION POINT. CONFIRM EXISTING WIRING (ETHERNET) AND PROVIDE WEATHERPROOF CONNECTORS FOR CIRCUIT EXTENSION.
2. FIELD VERIFY EXISTING CIRCUITS. DEMOLISH EXISTING FUEL DISPENSING UNIT ELECTRICAL INCLUDING ALL CONTROL EQUIPMENT, RACEWAYS, CONDUCTORS, AND ANCILLARY EQUIPMENT BACK TO SOURCE.
3. PROVIDE ELECTRICAL CIRCUIT AND CONNECT EMERGENCY STOP BUTTON TO FUEL DISPENSER.
4. PROVIDE ELECTRICAL FOR LEAK DETECTION INCLUDING ANCILLARY EQUIPMENT. FIELD VERIFY EXISTING LEAK DETECTION POWER CIRCUIT AND EXTEND TO POWER THIS LEAK DETECTION.
5. VERIFY FINAL LOCATION WITH CONTRACTING OFFICER AND USER GROUP. PROVIDE POWER AND SHUNT TRIP CIRCUITS TO POWER PEDISTALS, AND SHUNT TRIP CIRCUIT BREAKERS.
6. SIZE GANGWAY PULL BOXES TO ACCOMMODATE CABLES. CONTRACTOR TO DETERMINE QUANTITY BASED ON FIELD CONDITIONS AND QUANTITY OF RACEWAYS USED.
7. PROVIDE SLEEVE (WITHIN FLOAT) FROM CHASE TO EQUIPMENT, FOR ELECTRICAL WIRING.



6/12/2026



DATE	DESCRIPTION	MARK
6/12/2026	FINAL	

A/E COMPANY: APPLIED MARINE ENGINEERING, LLC 1001 SHILOH RD. ROSLINDALE, MA 02126 A/E PROJECT NO.: 6030A	CONSULTING A/E: STANTEC LYNNWOOD, WA 98037-4772
---	---

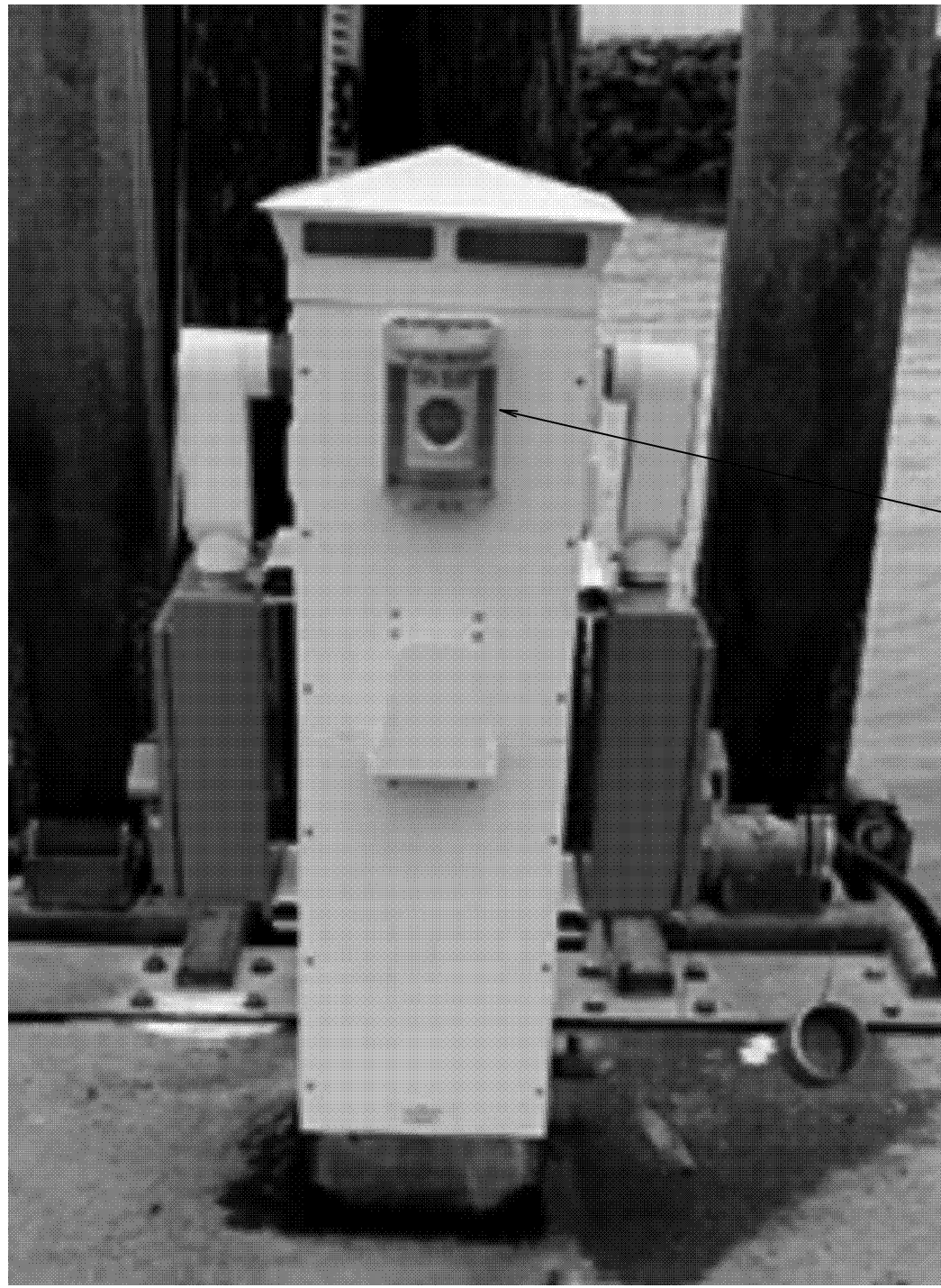
USCG PROJECT NUMBER 27843489	USCG PROJECT NUMBER 027843489E-101	USCG PROJECT NUMBER 027843489E-101.DWG
USCG PROJECT NUMBER 1301 CLAY STREET SUITE 700N OAKLAND, CA 94612-5203	USCG PROJECT MANAGER: R. TYZZER	DESIGNED BY: GIL
USCG PROJECT NUMBER 027843489E-101	DRAWN BY: AAU	CHECKED BY: SE

REPAIR FLOATING DOCK #3 STATION CAPE DISAPPOINTMENT ILWACO	WASHINGTON ELECTRICAL SITE PLAN - ELECTRICAL
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SHEET ID FLOATING DOCK #3 E-101
--

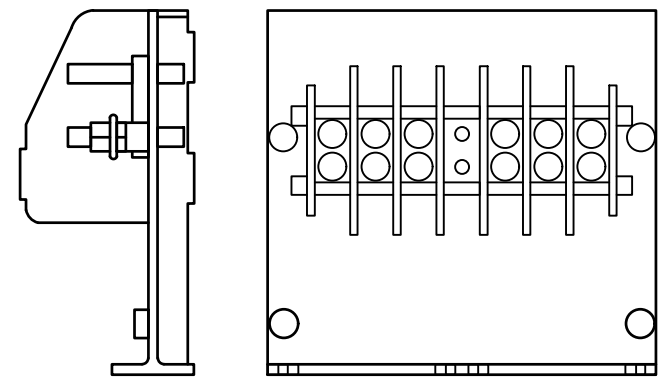
G
F
E
D
C
B
A

RUSSELSTOLL
DBRS111610000
100AMP, 120V SHORETIE

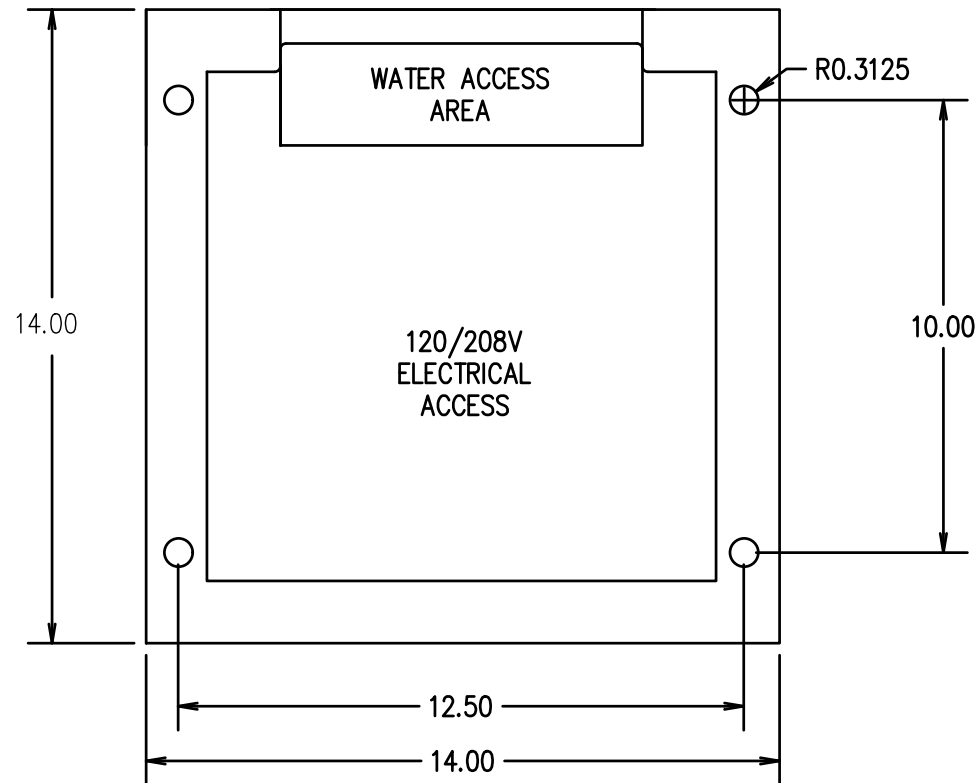


SAMPLE EPO SWITCH

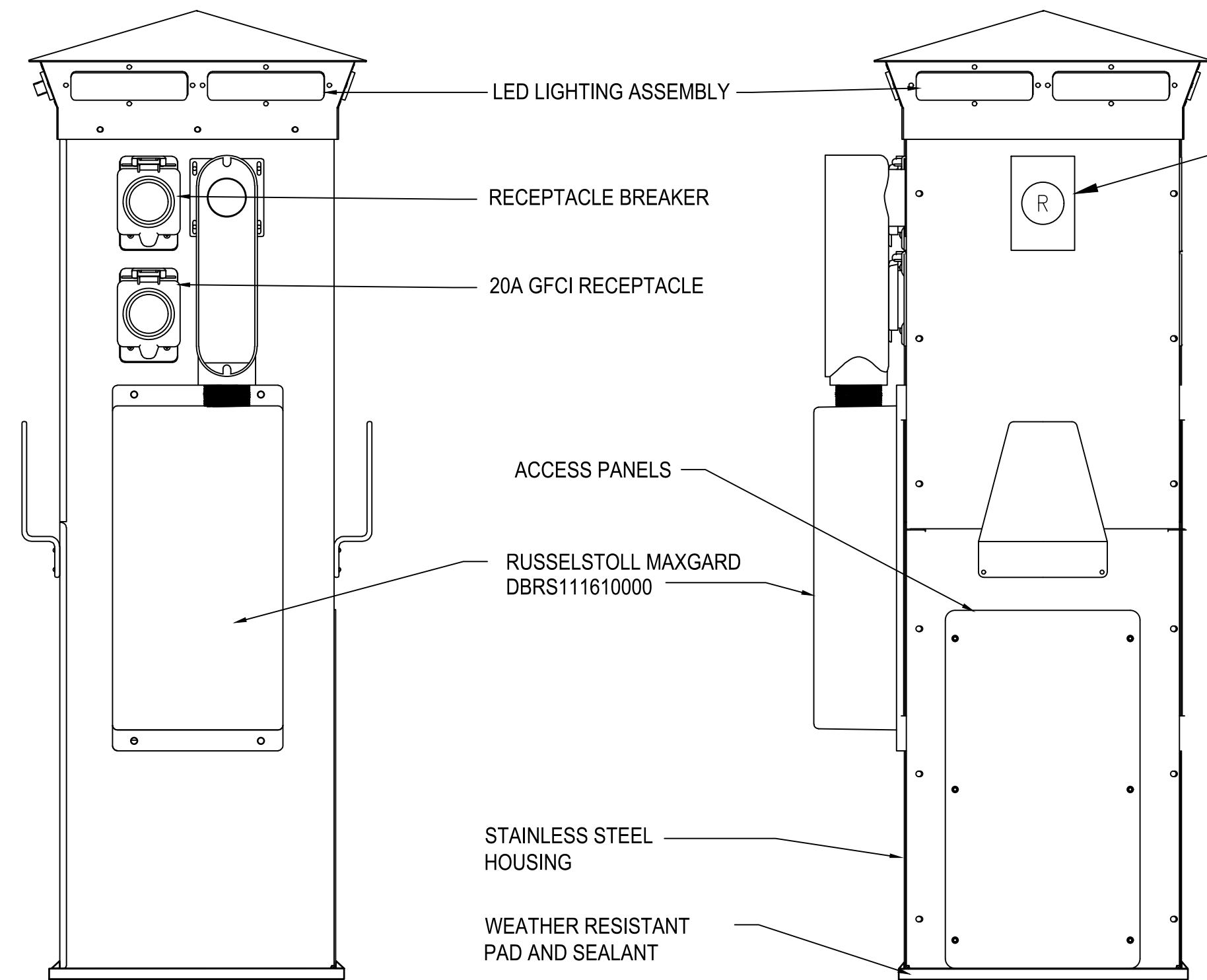
EPO SWITCH IN
YELLOW WP BOX AND
PLEXIGLASS COVER



BUSSING
SPLIT BUS BARS WITH 6-POSITION



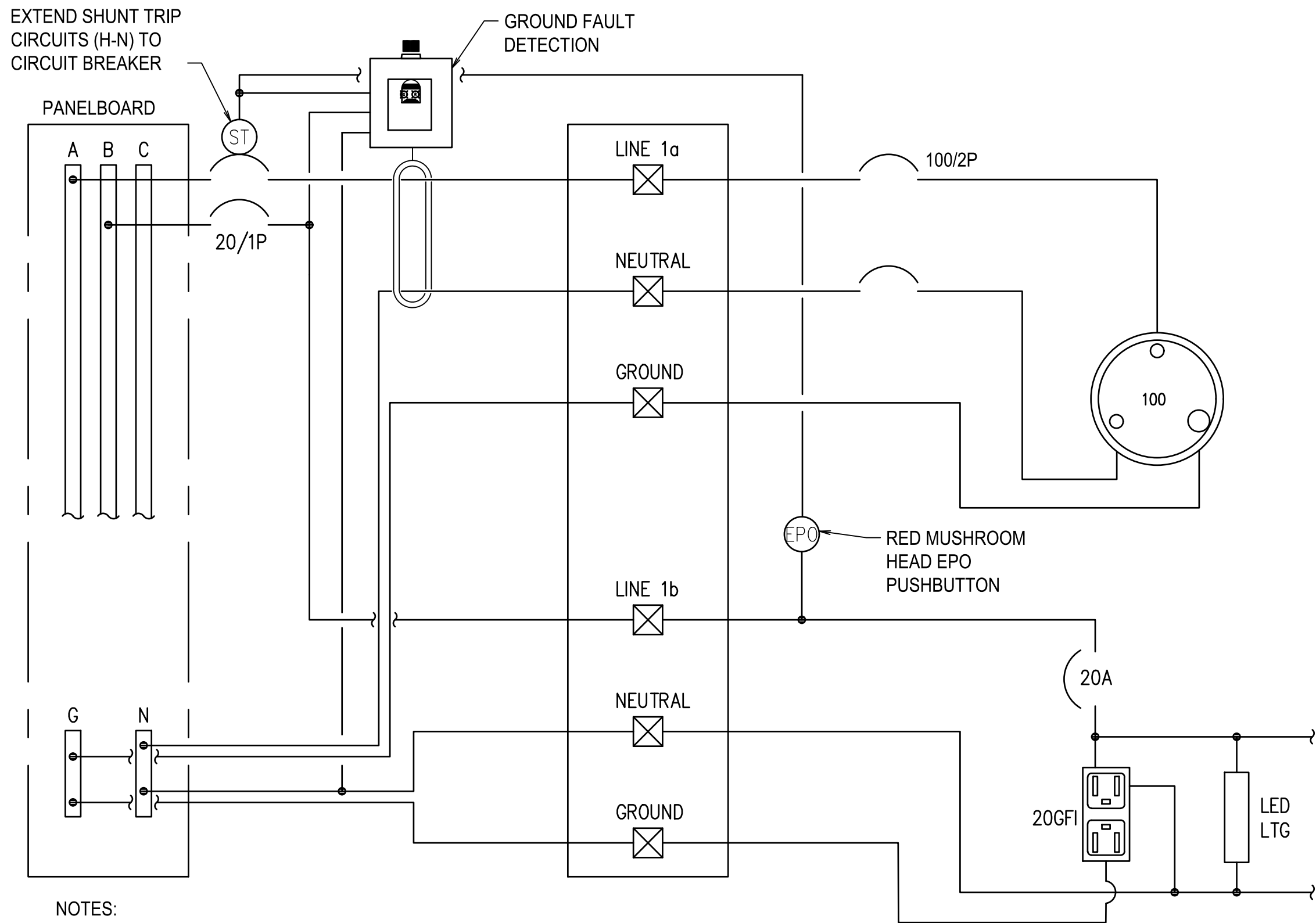
MOUNTING BASE DIMENSION



SIDE VIEW

FRONT VIEW

A1 POWER PEDESTAL SHORE TIE TYPICAL
SCALE: NTS



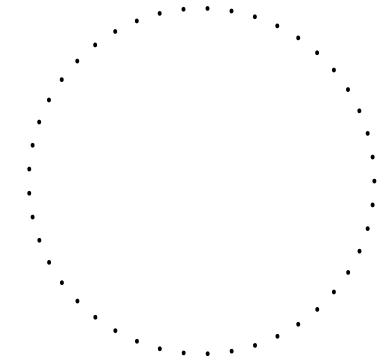
NOTES:

- RUSSELSTOLL DBRS111610000 RECEPTACLES FOR MLB POWER SHALL BE FURNISHED BY THE GOVERNMENT AND INSTALLED BY THE CONTRACTOR.
- PROVIDE GROUND FAULT PROTECTION IN ACCORDANCE WITH NEC ARTICLE 555.35. TRIP SETTING SHALL BE AT 80MA. GROUND FAULT EQUIPMENT SHALL BE BENDER MARINAGUARD OR APPROVED EQUAL. PROVIDE ADDITIONAL EPO SWITCH TO SHUT DOWN SHORE POWER CIRCUIT.
- SHORE POWER NEUTRAL SHALL BE SWITCHED VIA MECHANICAL INTERLOCK.
- PROVIDE PHOTOCCELL, LED LUMINAIRES, FUSES, HARDWARE AND WIRING FOR A COMPLETE AND NEC COMPLIANT INSTALLATION.
- REFER TO PANEL SCHEDULES FOR PHASE AND CIRCUITS USED.

WIRING CONNECTION TYP.



6/12/2026



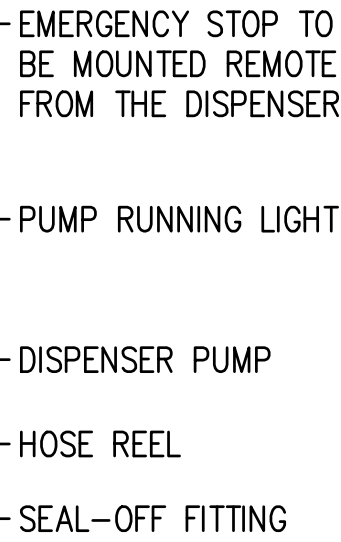
MARK	DESCRIPTION	DATE
FINAL		6/12/2026

A/E COMPANY:
APPLIED MARINE ENGINEERING, LLC
1001 SHORE DRIVE, NEW HAMPSHIRE
03894
A/E PROJECT NO.:
6030A
CONSULTING A/E:
STANTEC
LYNNWOOD, WA 98037-4772

USCG PROJECT NUMBER 27843489	USCG PROJECT NUMBER 1301 CLAY STREET SUITE 700N OAKLAND, CA 94612-5203
USCG DRAWING SERIES NUMBER 027843489E-501	USCG PROJECT MANAGER: R. TYZZER
USCG FILENAME 027843489E-501.DWG	DESIGNED BY: GIL
SHEET 22 OF 27	DRAWN BY: AAU
	CHECKED BY: SE

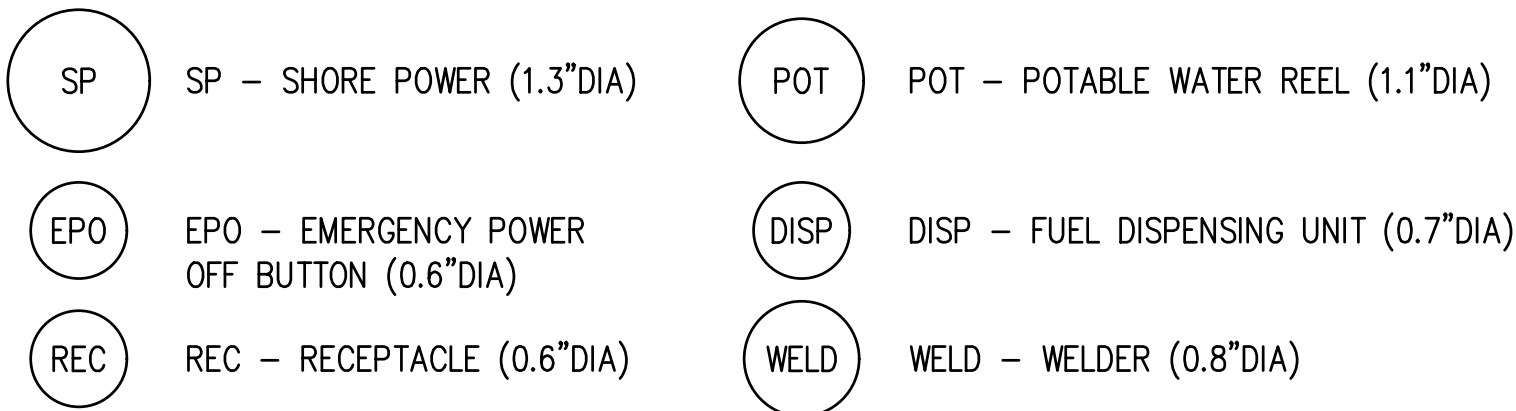
REPAIR FLOATING DOCK #3
STATION CAPE DISAPPOINTMENT
ILWACO
WASHINGTON
ELECTRICAL
POWER PEDESTAL SHORE TIE DETAILS

SHEET ID
FLOATING
DOCK #3
E-501



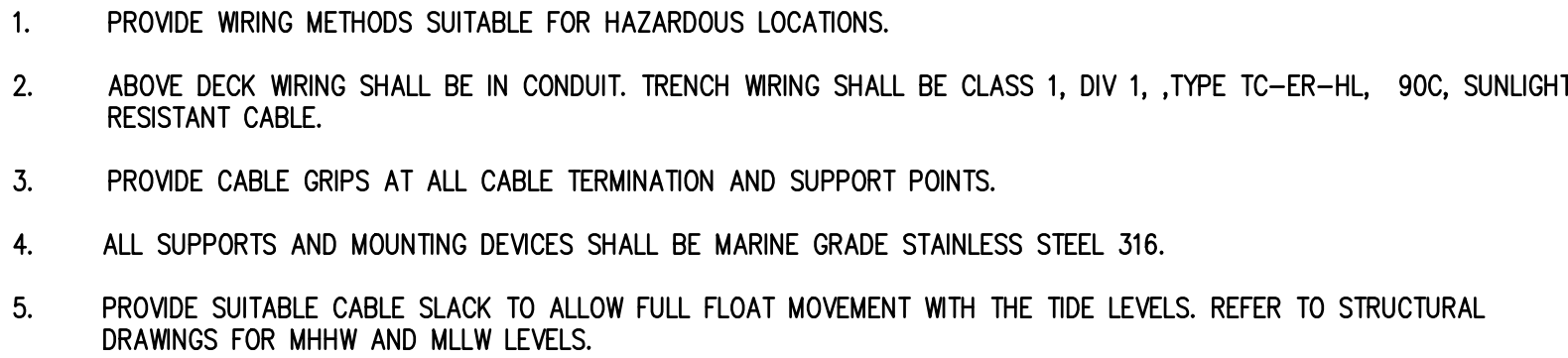
1. THIS PHOTO SHOWS A SAMPLE OF THE CONTROLS REQUIRED FOR THE FUEL DISPENSING UNIT
2. PUSHBUTTONS AND RUN LIGHTS SHALL BE NEMA 4X RATED WATERTIGHT AND OILTIGHT, ALLEN-BRADLEY TYPE 800T OR APPROVED EQUAL.

1. THIS PHOTO SHOWS A SAMPLE OF THE CONTROLS REQUIRED FOR THE FUEL DISPENSING UNIT
2. PUSHBUTTONS AND RUN LIGHTS SHALL BE NEMA 4X RATED WATERTIGHT AND OILTIGHT, ALLEN-BRADLEY TYPE 800T OR APPROVED EQUAL.

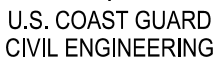
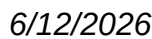


SCALE: NTS

SCALE: NTS



SCALE: NTS

[illegible]

SHEET 24 OF 27	DESIGNED BY: R. TYZZER	DRAWN BY: R. TYZZER	CONSULTING A/E: STANTEC L'INWOOD, WA 98037-4772
USGC PROJECT NUMBER 27843489	USGC PROJECT NAME 027843488E-503.DWG	USGC FILENAME 027843488E-503.DWG	A/E COMPANY: APPLIED MARINE ENGINEERING, LLC 10000 NEW HAMPSHIRE RD. NEW HAMPSHIRE 03073-1870
USGC DRAWING SERIES NUMBER 027843488E-503	USGC PROJECT NUMBER 27843489	USGC PROJECT NAME 027843488E-503.DWG	USGC PROJECT NO.: 6030A
USGC CIVIL ENGINEERING UNIT: OAKLAND 1301 CLAY STREET SUITE 700N OAKLAND, CA 94612-5203	USGC PROJECT NAME 027843488E-503.DWG	USGC FILENAME 027843488E-503.DWG	A/E COMPANY: APPLIED MARINE ENGINEERING, LLC 10000 NEW HAMPSHIRE RD. NEW HAMPSHIRE 03073-1870

REPAIR FLOATING DOCK #3
STATION CAPE DISAPPOINTMENT
ILWACO
WASHINGTON

SHEET ID
FLOATING
DOCK #3
E-503

G

F

E

D

C

B

A

GENERAL NOTES:

1. FIELD VERIFY EXISTING DISTRIBUTION SYSTEM SIZE AND RATINGS INCLUDING T-2 PRIMARY FEEDER, T-2, T-2 SECONDARY FEEDER, PANEL E FEEDER SOURCE (BREAKER OR BUS), PANEL E3 FEEDER SIZE, PANEL NMBLS SHORE-TIE PANEL FEEDER SIZE AND SOURCE.
2. CIRCUITS MAY BE COMBINED IN RACEWAYS AT CONTRACTORS OPTION. INCREASE CONDUCTOR SIZES FOR DERATING PER NEC.
3. REFER TO E-101 FOR ADDITIONAL REQUIREMENTS.

[illegible]

A/E COMPANY:
APPLEDORE MARINE ENGINEERING, LLC
PORTSMOUTH, NEW HAMPSHIRE
(603) 766-1870
A/E PROJECT NO.:
6030A

CONSULTING A/E:
STANTEC
LYNNWOOD, WA 98037-4772

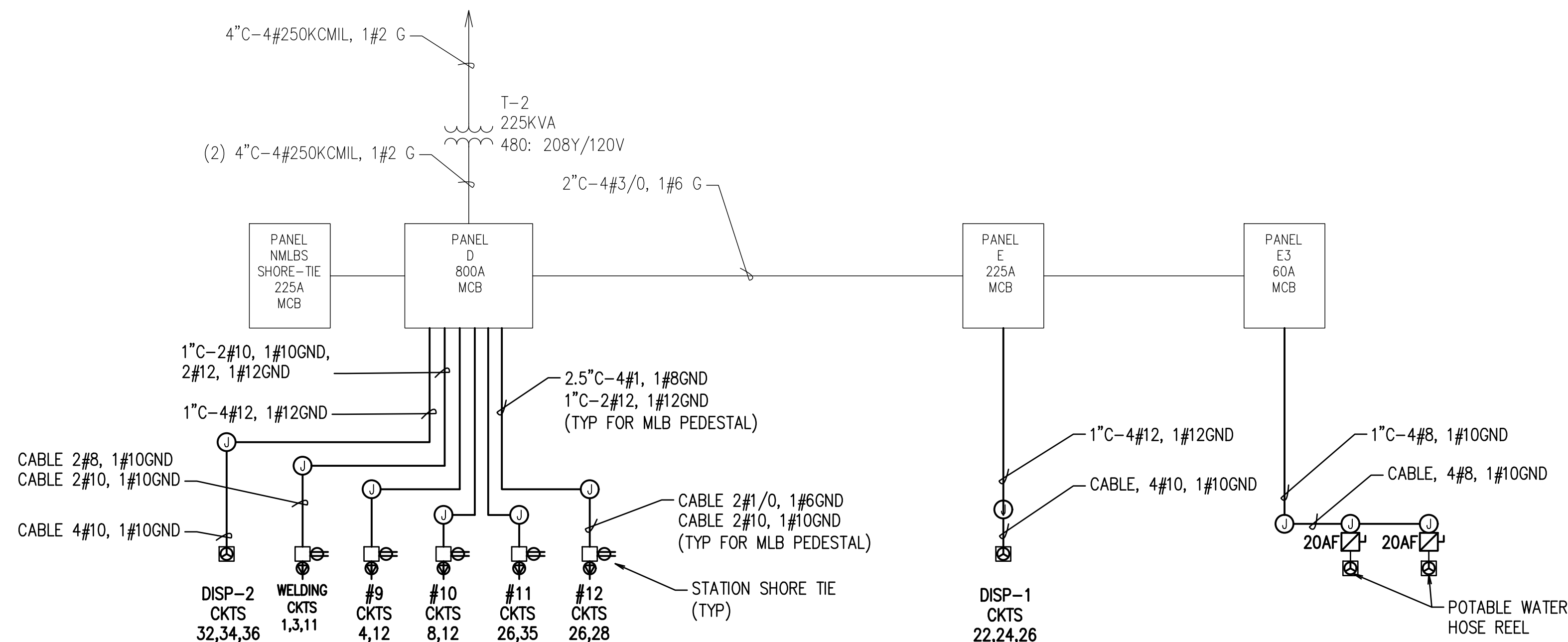
USCG CIVIL ENGINEERING UNIT, OAKLAND 1301 CLAY STREET SUITE 700N OAKLAND, CA 94612-5203	USCG PROJECT MANAGER: R. TYZZER	DESIGNED BY: GIL	DRAWN BY: AAU
		EDITED BY:	CHECKED BY: cr

USCG PROJECT NUMBER 27843489	USCG DRAWING SERIES NUMBER O27843489E-601	USCG FILENAME O27843489E-601.DWG	SHEET 25 OF 27
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REPAIR FLOATING DOCK #3 STATION CAPE DISAPPOINTMENT ILWACO WASHINGTON	ELECTRICAL
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PARTIAL ONE-LINE DIAGRAM

SHEET ID
FLOATING
DOCK #3
E-601



A1 PARTIAL ONE-LINE DIAGRAM
SCALE: NTS

\\US0305-PFSS01\SHARED_PROJECTS\204822948\C_COORDINATION\02_OUT\2026-0612_ELEC_DRAWINGS\02784348E603 Jun 12, 2026 9:27 AM By:SHENGLSH

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Stantec													Panel
Name	E(E)	120/208V	3 PH	4W	225A	Main CB					Type: Panelboard		
Location:	Surface Mounted											10,000 AIC	
Serves:	Single Lugs												
#	Description	Load	CB	*	A	B	C	CB	*	Load	Description	#	
1	Spare OFF	0.00	40/3	CB	X			30/1	CB	0.00	Spare	2	
3	-----OFF	0.00	-----	---	X			20/1	CB	0.00	Mech UPSTAIRS HEATER	4#	
5	-----OFF	0.00	-----	---			X	20/2	CB	0.00	Spare OFF	6	
7#	Lighting COVERED MOORAGE	0.00	30/1	CB	X			-----	---	0.00	-----	8	
9#	Lighting FUEL DOCK	0.00	20/1	CB	X			20/1	CB	0.00	Recept	10	
11	Spare OFF	0.00	20/1	CB		X		20/1	CB	0.00	Recept UPSTAIRS	12	
13#	Lighting	0.00	20/1	CB	X			20/1	CB	0.00	Lighting COVERED WALKWAY/ E-STOPS	14#	
15#	Lighting ELEVATED WALKWAY	0.00	20/1	CB	X			20/2	CB	0.00	Lighting STATION MOORAGE (ABOVE WALKWAY)	16#	
17#	Equip STATION MOORAGE HOSE REEL	0.00	10/1	CB		X		-----	---	0.00	-----STATION MOORAGE (ABOVE WALKWAY)	18#	
19#	Panel E3(E)	0.00	0/3		X			30/3	CB	0.00	Equip GAS DISPENSER	20#	
21#	-----E3(E)	0.00	-----	---	X			-----	---	0.00	-----GAS DISPENSER	22#	
23#	-----E3(E)	0.00	-----	---			X	-----	---	0.00	-----GAS DISPENSER	24#	
25	Space	0.00	0/1		X			20/1	CB	0.00	Equip WDFW CAMERA	26#	
27	Space	0.00	0/1		X			20/1	CB	0.00	Spare OFF	28	
29	Space	0.00	0/1				X	0/1		0.00	Space	30	
Rev:					PH A		PH B		PH C		* Circuit Breaker Code		
Revised Ckts Marked * Existing Ckts Marked #				Connected KVA		0.00		0.00		0.00		G = GFCI H = HID Rated	
												S = Shunt Trip C = HACR Rated	
File: U:\204822948\d_working_files\10_electrical\schedules\Cape_Disappointment_Pnl_Schedules.PNL												D = Switching Duty # = See Note	
												A = AFCI	
Notes:	GE A SERIES PANELBOARD												
Dem.													
Load Type	Conn KVA	NEC Demand Factor			KVA Dem. Amps		NEC Feed %		NEC Feed Amps				
Space	0.00				0.00		0		0				
	0.00		0 Amps		0.00		0						

Stantec													Panel
Name	E3(E)	120/208V	3 PH	4W	60A	Main CB					Type: Panelboard		
Location:	Surface Mounted												
Serves:	Single Lugs												
#	Description	Load	CB	*	A	B	C	CB	*	Load	Description	#	
1	Space	0.00	0/1		X			0/1		0.00	Space	2	
3	Spare OFF	0.00	20/1	CB	X			20/1	CB	0.00	Spare OFF	4	
5	Spare OFF	0.00	20/1	CB		X		20/1	CB	0.00	Spare OFF	6	
7#	Equip CONTROL POWER	0.00	20/1	CB	X			20/1	CB	0.00	Spare OFF	8	
9#	Misc PUMP HOURS LTG/REC	0.00	20/1	CB	X			20/1	CB	0.00	Spare OFF	10	
11#	Equip GAS NOZZLE	0.00	20/1	CB		X		20/1	CB	0.00	Spare OFF	12	
13#	Equip FA PANEL	0.00	20/1	CB	X			20/1	CB	0.00	Spare OFF	14	
15#	Equip GAS PUMP	0.00	30/2	CB	X			20/1	CB	0.00	Spare OFF	16	
17#	-----GAS PUMP	0.00	-----	---		X		20/2	CB	0.00	Equip DIESEL DISPENSER #4	18#	
19#	Equip DIESEL DISPENSER #1	0.00	20/2	CB	X			-----	---	0.00	-----DIESEL DISPENSER #4	20#	
21#	-----DIESEL DISPENSER #1	0.00	-----	---		X		20/2	CB	0.00	Equip GAS DISPENSER	22#	
23#	Equip DIESEL DISPENSER #2	0.00	20/2	CB	X			-----	---	0.00	-----GAS DISPENSER	24#	
25#	-----DIESEL DISPENSER #2	0.00	-----	---	X			30/3	CB	0.00	Motors DIESEL PUMP	26#	
27#	Equip DIESEL DISPENSER #3	0.00	20/2	CB	X			-----	---	0.00	-----DIESEL PUMP	28#	
29#	-----DIESEL DISPENSER #3	0.00	-----	---		X		-----	---	0.00	-----DIESEL PUMP	30#	
Rev:					PH A		PH B		PH C		* Circuit Breaker Code		
Revised Ckts Marked *		Existing Ckts Marked #		Connected KVA		0.00		0.00		0.00		G = GFCI	H = HID Rated
												S = Shunt Trip	C = HACR Rated
File:		U:\204822948\d_working_files\10_electrical\schedules\Cape_Disappointment_Pnl_Schedules.PNL										D = Switching Duty	# = See Note
												A = AFCI	
Notes:	SIEMENS TYPE P1												
Dem.													
Load Type	Conn KVA	NEC Demand Factor				KVA Dem. Amps		NEC Feed %		NEC Feed Amps			
Space	0.00					0.00		0		0			
	0.00	0 Amps				0.00		0		0			

GENERAL NOTES:

- VERIFY MECHANICAL EQUIPMENT POWER REQUIREMENTS PRIOR TO PROCURING AND REPLACING THE CIRCUIT BREAKERS. ADJUST CIRCUIT WIRING TO ACCOMMODATE THE FINAL EQUIPMENT VOLTAGE CONFIGURATIONS.
- CIRCUITS WILL BE USED FOR DIESEL FUEL HEAT TRACE (IN ANTICIPATED CONSTRUCTION PROJECT PRIOR TO THIS PROJECT) AND WILL AFFECT THE (E) EXISTING CONDITIONS OF THE SCHEDULES SHOWN. ADJUST CIRCUIT BREAKER ARRANGEMENT TO ACCOMMODATE THE HEAT TRACE CIRCUITS.

SHEET KEYNOTES:

- PROVIDE/REPLACE CIRCUIT BREAKER IN EXISTING PANELBOARD.

Stantec													Panel
Name	E	120/208V	3 PH	4W	225A	Main CB					Type: Panelboard		
Location:	Surface Mounted								10,000 AIC				
Serves:	Single Lugs												
#	Description	Load	CB	*	A	B	C	CB	*	Load	Description	#	
1	Spare OFF	0.00	40/3	CB	X			30/1	CB	0.00	Spare	2	
3	-----OFF	0.00	-----	---		X		20/1	CB	0.00	Mech UPSTAIRS HEATER	4#	
5	-----OFF	0.00	-----	---			X	20/2	CB	0.00	Spare	6	
7#	Lighting COVERED MOORAGE	0.00	30/1	CB	X			-----	---	0.00	-----	8	
9#	Lighting FUEL DOCK	0.00	20/1	CB	X			20/1	CB	0.00	Recept	10	
11	Spare OFF	0.00	20/1	CB		X		20/1	CB	0.00	Recept UPSTAIRS	12	
13#	Lighting	0.00	20/1	CB	X			20/1	CB	0.00	Lighting COVERED WALKWAY/ E-STOPS	14#	
15#	Lighting ELEVATED WALKWAY	0.00	20/1	CB	X			20/2	CB	0.00	Lighting STATION MOORAGE (ABOVE WALKWAY)	16#	
17#	Equip STATION MOORAGE HOSE REEL	0.00	10/1	CB		X		-----	---	0.00	-----STATION MOORAGE (ABOVE WALKWAY)	18#	
19#	Panel E3	2.97	60/3		X			20/3	CB	1.32	Equip GASOLINE DISPENSING UNIT DISP-1	20*	
21#	-----E3	2.97	-----	---		X		-----	---	1.32	-----GASOLINE DISPENSING UNIT DISP-1	22*	
23#	-----E3	2.97	-----	---		X		-----	---	1.32	-----GASOLINE DISPENSING UNIT DISP-1	24*	
25	Space	0.00	0/1		X			20/1	CB	0.00	Equip WDFW CAMERA	26#	
27	Space	0.00	0/1		X			20/1	CB	0.00	Spare OFF	28	
29	Space	0.00	0/1			X		0/1		0.00	Space	30	
Rev:					PH A		PH B		PH C		* Circuit Breaker Code		
Revised Ckts Marked *	Existing Ckts Marked #		Connected KVA		4.29		4.29		4.29		G = GFCI H = HID Rated		
												S = Shunt Trip C = HACR Rated	
File:	U:\204822948\d_working_files\10_electrical\schedules\Cape_Disappointment_Pnl_Schedules.PNL										D = Switching Dut # = See Note		
												A = AFCI	
Notes: GE A SERIES PANELBOARD													
Dem.													
Load Type	Conn KVA	NEC Demand Factor			KVA Dem. Am		NEC Feed %		NEC Feed Amps				
Equip	3.96	x 100%			3.96		11		x 100%		11		
Motors	8.92	x 100%			8.92		25		125% of Largest		31		
	12.88		36 Amps		12.88		36				42		

Stantec													Panel
Name	E3	120/208V	3 PH	4W	60A	Main CB					Type: Panelboard		
Location:	Surface Mounted												
Serves:	Single Lugs												
#	Description	Load	CB	*	A	B	C	CB	*	Load	Description	#	
1	Spare OFF	0.00	20/1	CB	X			40/3	CB	2.97	Motors POTABLE WATER HOSE REEL	2*	
3	Spare OFF	0.00	20/1	CB	X			-----	---	2.97	-----POTABLE WATER HOSE REEL	4*	
5	Spare OFF	0.00	20/1	CB	X			-----	---	2.97	-----POTABLE WATER HOSE REEL	6*	
7#	Equip CONTROL POWER	0.00	20/1	CB	X			20/1	CB	0.00	Spare OFF	8	
9#	Misc PUMP HOURS LTG/REC	0.00	20/1	CB	X			20/1	CB	0.00	Spare OFF	10	
11#	Equip GAS NOZZLE	0.00	20/1	CB	X			20/1	CB	0.00	Spare OFF	12	
13#	Equip FA PANEL	0.00	20/1	CB	X			20/1	CB	0.00	Spare OFF	14	
15#	Equip GAS PUMP	0.00	30/2	CB	X			20/1	CB	0.00	Spare OFF	16	
17#	-----GAS PUMP	0.00	-----	---			X	20/2	CB	0.00	Equip DIESEL DISPENSER #4	18#	
19#	Equip DIESEL DISPENSER #1	0.00	20/2	CB	X			-----	---	0.00	-----DIESEL DISPENSER #4	20#	
21#	-----DIESEL DISPENSER #1	0.00	-----	---			X	20/2	CB	0.00	Equip GAS DISPENSER	22#	
23#	Equip DIESEL DISPENSER #2	0.00	20/2	CB	X			-----	---	0.00	-----GAS DISPENSER	24#	
25#	-----DIESEL DISPENSER #2	0.00	-----	---			X	30/3	CB	0.00	Motors DIESEL PUMP	26#	
27#	Equip DIESEL DISPENSER #3	0.00	20/2	CB	X			-----	---	0.00	-----DIESEL PUMP	28#	
29#	-----DIESEL DISPENSER #3	0.00	-----	---			X	-----	---	0.00	-----DIESEL PUMP	30#	
Rev:					PH A			PH B		PH C		* Circuit Breaker Code	
Revised Ckts Marked * Existing Ckts Marked #					Connected KVA			2.97		2.97		2.97	
File: U:\204822948\d_working_files\10_electrical\schedules\Cape_Disappointment_Pnl_Sch					G = GFCI H = HID Rated S = Shunt Trip C = HACR Rated D = Switching Dut# = See Note A = AFCI								
Notes: SIEMENS TYPE P1													
Dem.													
Load Type	Conn KVA	NEC Demand Factor				KVA Dem. Am			NEC Feed %		NEC Feed Amps		
Motors	8.92	x 100%				8.92			25 125% of Largest		31		
	8.92	25 Amps				8.92			25		31		