



Initial Review: _____
Updated On: _____
Complete: _____
Official Use Only

Coastal Zone Management Act Federal Consistency Form

This document provides the Delaware Coastal Management Program (DCMP) with a Federal Consistency Determination or Certification for activities regulated under the Coastal Zone Management Act of 1972, as amended, and NOAA's Federal Consistency Regulations, 15 C.F.R. Part 930. Federal agencies and other applicants for federal consistency are not required to use this form; it is provided to applicants to facilitate the submission of a Consistency Determination or Consistency Certification. In addition, federal agencies and applicants are only required to provide the information required by NOAA's Federal Consistency Regulations.

Project/Activity Name: CG STATION INDIAN RIVER INLET - MAJOR M&R OF WATERFRONT

I. Federal Agency or Non-Federal Applicant Contact Information:

Contact Name/Title: Greggory Lodge, Technical Director

Federal Agency Contractor Name (if applicable): _____

Federal Agency: U.S. Coast Guard

(either the federal agency proposing an action or the federal agency issuing a federal license/permit or financial assistance to a non-federal applicant)

Mailing Address: Civil Engineering Unit, Room 2170, 1240 East Ninth Street

City: Cleveland State: Ohio Zip Code: 44199-2060

E-mail: greggory.p.lodge@uscg.mil Telephone #: 216-902-6206

II. Federal Consistency Category:

- Federal Activity or Development Project (15 C.F.R. Part 930, Subpart C)
- Outer Continental Shelf Activity (15 C.F.R. Part 930, Subpart E)
- Federal Financial Assistance (15 C.F.R. Part 930, Subpart F)
- Federal License or Permit Activity (15 C.F.R. Part 930, Subpart D)
- Federal License or Permit Activity which occurs wholly in another state (interstate consistency activities identified in DCMP's Policy document)

III. Detailed Project Description (attach additional sheets if necessary):

Repairs will be made to the bulk head as indicated in the drawings. This will including removing and providing new timber fender system, Repair of corrosion in bulkhead by welding new steel plates over compromised sheet pile location(detail is attached for reference), cathodic protection(aluminum anodes will be installed at 10ft O.C. within the sheet piles).

Others items include a new gasoline tank, loading docks in the boat basin that includes new piles to support loading docks, creating of drainage swale for current parking lot ponding. See drawings attached for further detail.

IV. General Analysis of Coastal Effects (attach additional sheets if necessary):

The scope of work for this project is previously described is very minimal work that is part of required maintenance. This will not have coastal effects.

V. Detailed Analysis of Consistency with DCMP Enforceable Policies (attach additional sheets if necessary):

Policy 5.1: Wetlands Management

A basic application will be submitted to Wetlands and Subaqueous Land Section.

Policy 5.2: Beach Management

N/A

Policy 5.3: Coastal Waters Management (includes wells, water supply, and stormwater management. Attach additional sheets if necessary)

The project will adhere to sections 5.3.1.1 through 5.3.1.36.5

Policy 5.4: Subaqueous Land and Coastal Strip Management

The project will adhere to sections 5.4.1 through 5.4.26.4

Policy 5.5: Public Lands Management

N/A

Policy 5.6: Natural Lands Management

N/A

Policy 5.7: Flood Hazard Areas Management

N/A

Policy 5.8: Port of Wilmington

N/A

Policy 5.9: Woodlands and Agricultural Lands Management

N/A

Policy 5.10: Historic and Cultural Areas Management

N/A

Policy 5.11: Living Resources

The project will adhere to sections 5.11.1.1 through 5.11.1.1.2.7

Policy 5.12 Mineral Resources Management

N/A

Policy 5.13: State Owned Coastal Recreation and Conservation

N/A

Policy 5.14: Public Trust Doctrine

N/A

Policy 5.15: Energy Facilities

N/A

Policy 5.16: Public Investment

N/A

Policy 5.17: Recreation and Tourism

N/A

Policy 5.18: National Defense and Aerospace Facilities

N/A

Policy 5.19: Transportation Facilities

N/A

Policy 5.20: Air Quality Management

N/A

Policy 5.21: Water Supply Management

N/A

Policy 5.22: Waste Disposal Management

N/A

Policy 5.23: Development

N/A

Policy 5.24: Pollution Prevention

N/A

Policy 5.25: Coastal Management Coordination

The Johnson McAdams Firm has been in coordination with Erin Wilson for this project.

VI. JPP and RAS Review (Check all that apply):

Has the project been reviewed in a monthly Joint Permit Processing and/or Regulatory Advisory Service meeting?

- JPP RAS None

*If yes, provide the date of the meeting(s): _____

VII. Statement of Certification/Determination and Signature (Check one and sign below):

FEDERAL AGENCY CONSISTENCY DETERMINATION. Based upon the information, data, and analysis included herein, the federal agency, or its contracted agent, listed in (I) above, finds that this proposed activity is consistent to the maximum extent practicable with the enforceable policies of the Delaware Coastal Management Program.

OR

FEDERAL AGENCY NEGATIVE DETERMINATION. Based upon the information, data, and analysis included herein, the federal agency, or its contracted agent, listed in (I) above, finds that this proposed activity will not have any reasonably foreseeable effects on Delaware's coastal uses or resources (Negative Determination) and is therefore consistent with the enforceable policies of the Delaware Coastal Management Program.

OR

NON-FEDERAL APPLICANT'S CONSISTENCY CERTIFICATION. Based upon the information, data, and analysis included herein, the non-federal applicant for a federal license or permit, or state or local government agency applying for federal funding, listed in (I) above, finds that this proposed activity complies with the enforceable policies of the Delaware Coastal Management Program and will be conducted in a manner consistent with such program.

Signature:	LODGE.GREGORY.PETER.1271339905		Digitally signed by LODGE.GREGORY.PETER.1271339905 Date: 2023.01.26 08:50:18 -05'00'
Printed Name:	Greggory Lodge	Date:	1/26/2023

Pursuant to 15 C.F.R. Part 930, the Delaware Coastal Management Program must provide its concurrence with or objection to this consistency determination or consistency certification in accordance with the deadlines listed below. Concurrence will be presumed if the state's response is not received within the allowable timeframe.

Federal Consistency Review Deadlines:

Federal Activity or Development Project (15 C.F.R. Part 930, Subpart C)	60 days with option to extend an additional 15 days or stay review (15 C.F.R. § 930.41)
Federal License or Permit (15 C.F.R. Part 930, Subpart D)	Six months, with a status letter at three months. The six month review period can be stayed by mutual agreement. (15 C.F.R. § 930.63)
Outer Continental Shelf Activity (15 C.F.R. Part 930, Subpart E)	Six months, with a status letter at three months. If three month status letter not issued, then concurrence presumed. The six month review period can be stayed by mutual agreement. (15 C.F.R. § 930.78)
Federal Financial Assistance to State or Local Governments (15 C.F.R. Part 930, Subpart F)	State Clearinghouse schedule

OFFICIAL USE ONLY:

Reviewed By:	Fed Con ID:	Date Received:
Public notice dates: _____ to _____	Comments Received: <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES <i>[attach comments]</i>	
Decision type: <small>(objections or conditions attach details)</small>	Decision Date: _____	

February 7, 2023

Delaware Department of Natural Resources
Delaware Coastal Programs
100 W. Water Street, Ste 7B
Dover, Delaware 19904

Attention: Kimberly Cole

Re: Major M&R of Waterfront at
U.S. Coast Guard Station
Indian River Inlet
Rehoboth Beach, Delaware

All:

The U.S. Coast Guard Station at Indian River Inlet has plans to repair approximately 1,100' of the waterfront bulkhead and replacing the north and south floating docks. The project will consist of demolishing and replacing the timber fender system, cleaning the sheet pile in locations, providing a new concrete cap in locations, provide a cathodic protection system along the bulkhead, and replacing (2) floating docks and associated piles. Drawings of the proposed project are attached for your use.

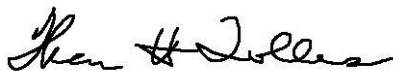
Enclosed for you is the Coastal Zone Management Federal Consistency Form for the Bulkhead and Dock repairs.

Should you have questions regarding this project, please contact me at the following address.

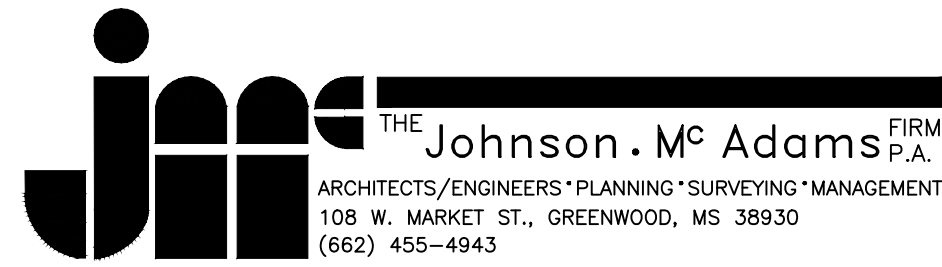
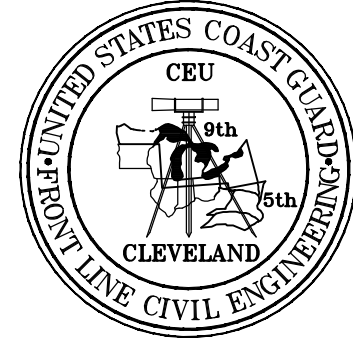
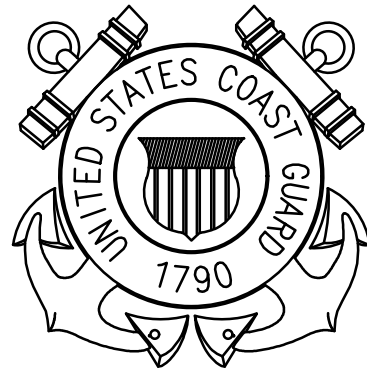
Tom Tollison, P.E.
The Johnson McAdams Firm, P.A.
P.O. Box 513
108 Market Street
Greenwood, MS 38930
662-455-4943
Tom.tollison@jmcfirm.com

Sincerely,

Tom Tollison, P.E., VP
The Johnson McAdams Firm, P.A.



Cc: Mr. Timothy G. Arnold, Contracting Officer, USCG CEU Cleveland



U.S. COAST GUARD
CIVIL ENGINEERING UNIT
CLEVELAND

CG STATION INDIAN RIVER INLET REHOBOTH BEACH, DE MAJOR M&R OF WATERFRONT P/N 15914457

DRAWING INDEX		
SHEET	DISCIPLINE	TITLE
G-01	GENERAL	TITLE SHEET
D-01	CIVIL	SURVEY AND DEMO PLAN
C-01	CIVIL	SITE PLAN
C-02	CIVIL	BULKHEAD PROFILE
C-03	CIVIL	TYPICAL BULKHEAD SECTIONS
C-04	CIVIL	FLOATING DOCK DETAILS
C-05	CIVIL	FUEL TANK DETAILS
C-06	CIVIL	MISCELLANEOUS CIVIL DETAILS
E-01	ELECTRICAL	ELECTRICAL SITE PLAN



MARK	DESCRIPTION	DATE	SCALE: AS SHOWN
4	FINAL DESIGN	FEB 2023	
3	100% DESIGN	JAN 2023	
2	95% DESIGN	DEC 2022	
1	35% DESIGN	NOV 2022	

A/E COMPANY: McADAMS FIRM, P.A.
GREENWOOD, MS
662-455-4943
A/E PROJECT NO.: 4322-E
CONSULTING A/E: N/A

CIVIL ENGINEERING UNIT CLEVELAND
1240 EAST 9TH STREET
CLEVELAND, OH 44199-2060
PROJECT ENGINEER: EVAN AMORGANOS
DESIGNED BY: TOLLISON
DRAWN BY: LUTE
CHECKED BY: TAYLOR

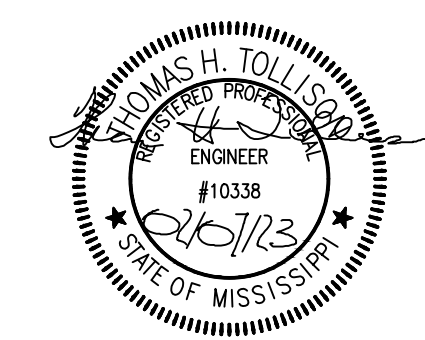
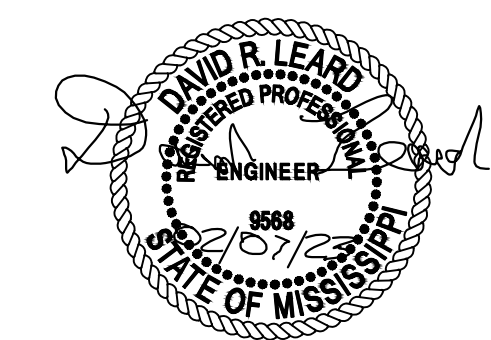
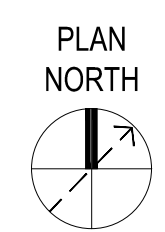
USCG PROJECT NO. 15914457
USCG DRAWING NO. 15914457-D
USCG FILENAME C15914457501.DWG
SHEET 1 OF 9

MAJOR M&R OF WATERFRONT
CG STA INDIAN RIVER INLET
REHOBOTH BEACH
GENERAL
TITLE SHEET

SHEET ID
BULKHEAD
G-01



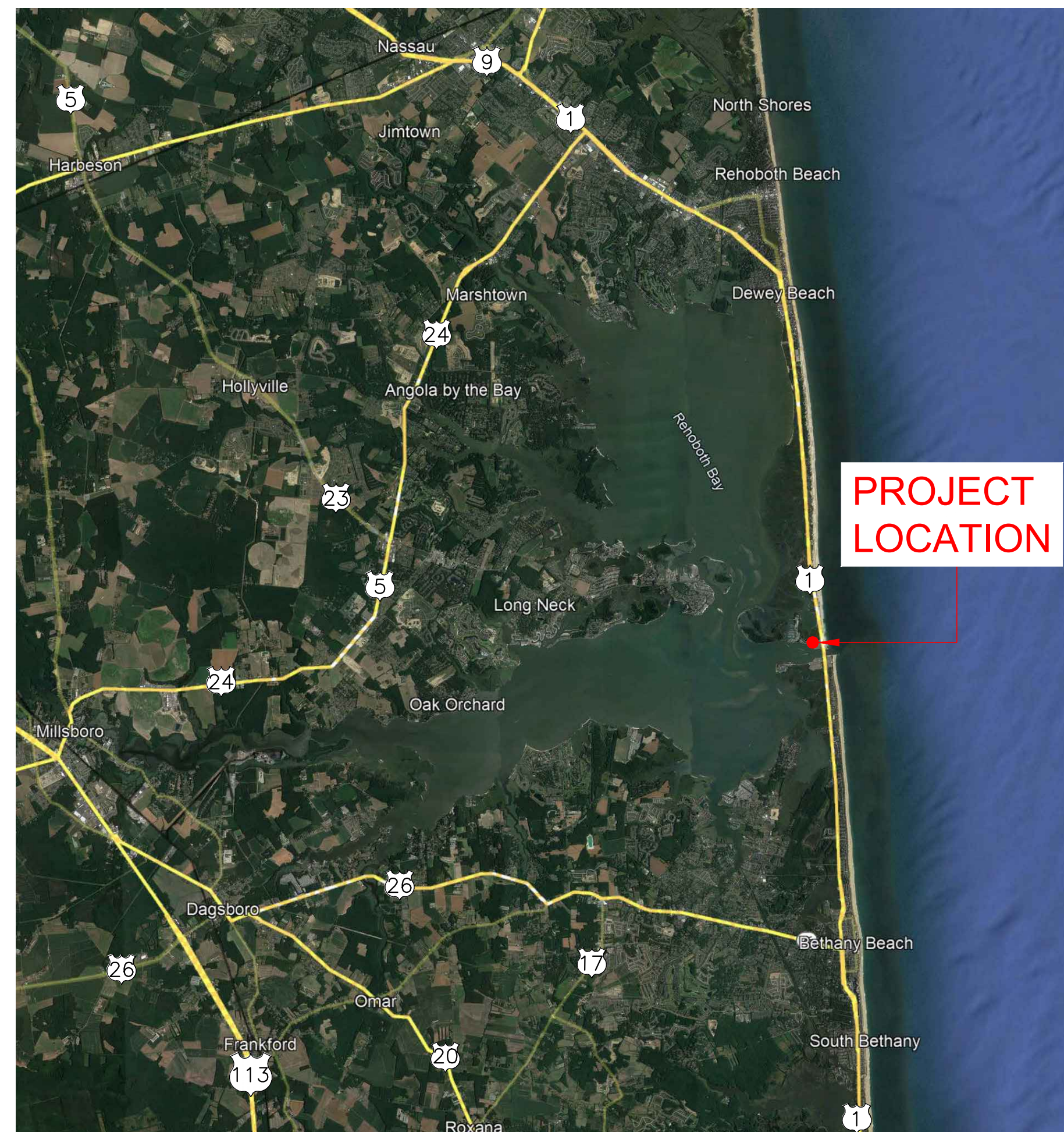
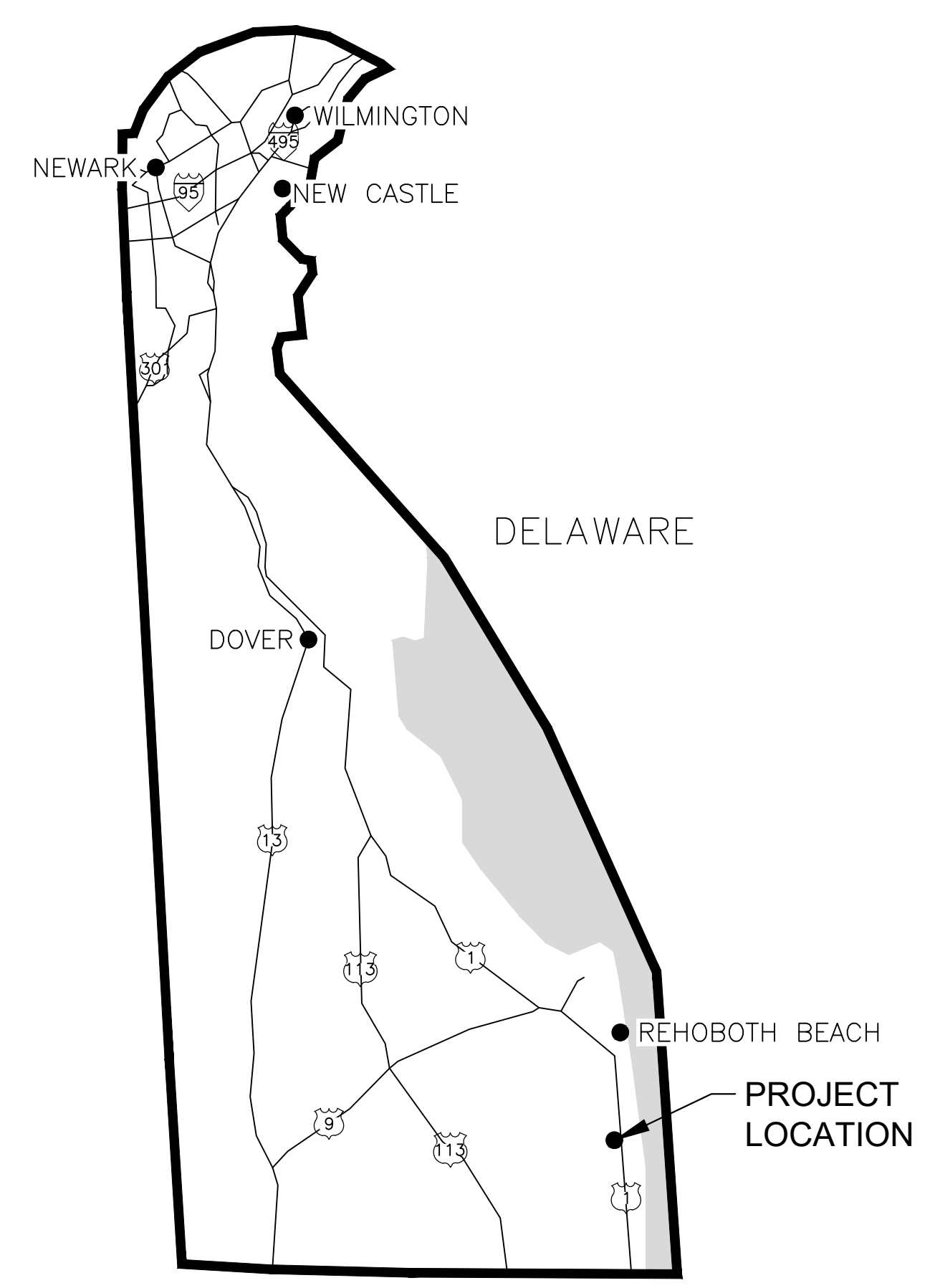
PROJECT SITE
SCALE: NONE



N. E. ARMSTRONG, CDR MM/DD/YYYY
APPROVING OFFICER DATE

G. P. LODGE
TECHNICAL DIRECTOR

B. VRANKAR
BRANCH CHIEF



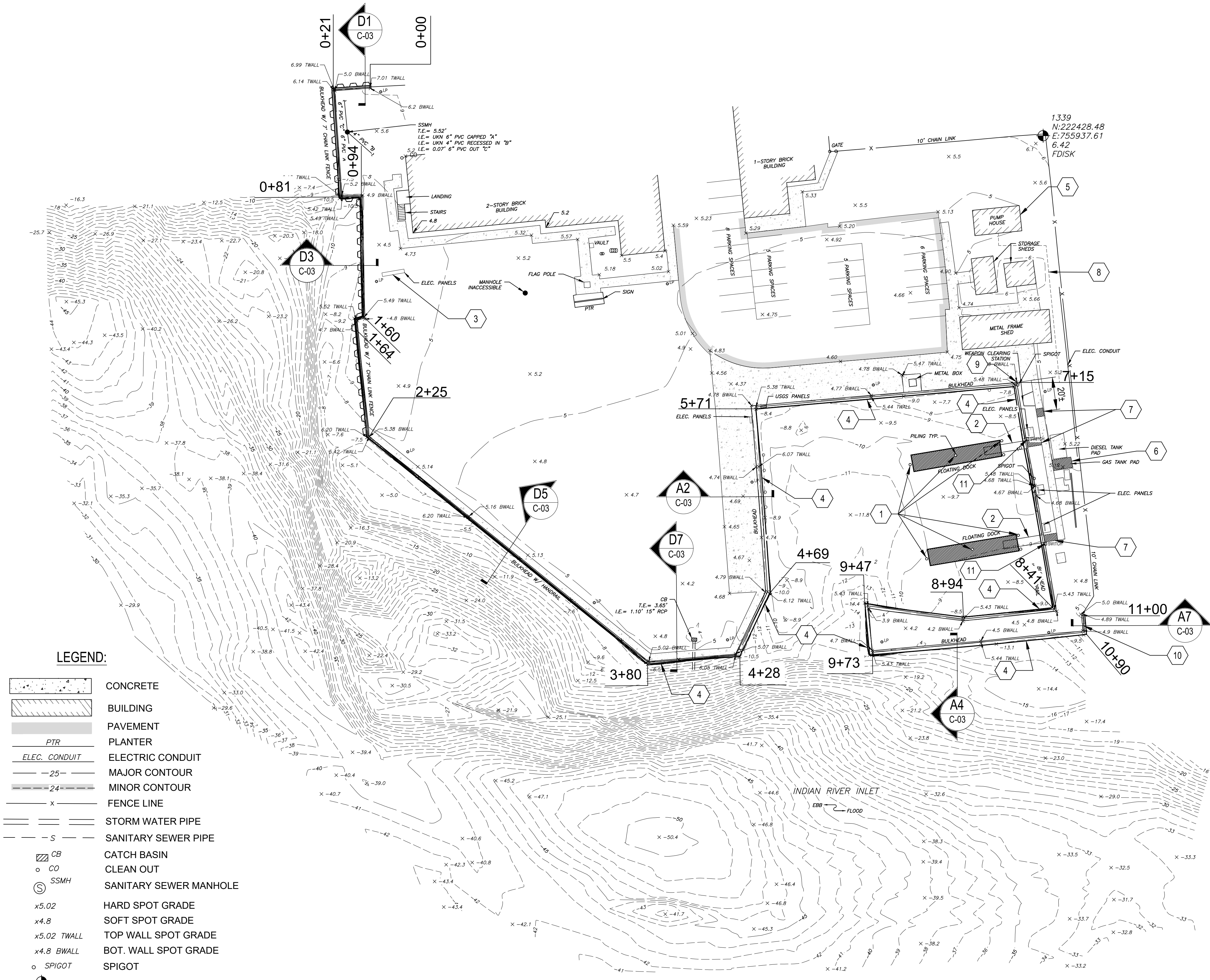
PROJECT LOCATION

GENERAL NOTES:

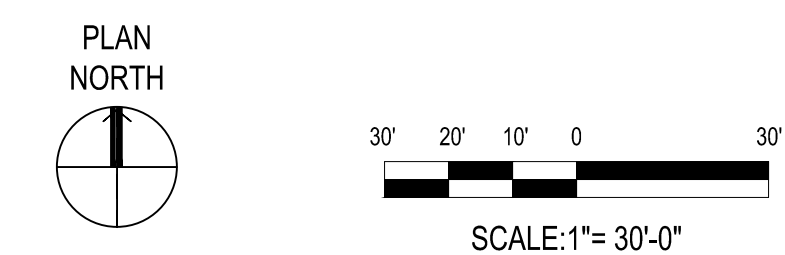
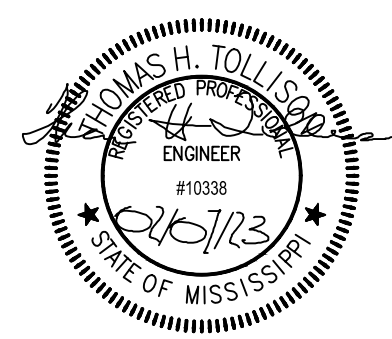
- THE CONTRACTOR'S MARINE EQUIPMENT SHALL DISPLAY SUCH LIGHTS AND DAY SIGNALS AS MAY BE REQUIRED UNDER APPLICABLE NAVIGATION RULES. THE CONTRACTOR SHALL INQUIRE AT THE NEAREST COAST GUARD MARINE SAFETY OFFICE FOR SPECIFIC INFORMATION ON THESE RULES. THE CONTRACTOR SHALL MARK OFFSHORE STRUCTURES DURING ALL PHASES OF CONSTRUCTION AND REMOVAL TO THE SATISFACTION OF THE CONTRACTING OFFICER. CONTRACTOR SHALL PROVIDE ANY LIGHTS, DAYMARKERS OR BUOYS REQUIRED. CONTRACTOR SHALL CONTACT COMMANDER, FIFTH COAST GUARD DISTRICT (DPW) AT (757) 398-6486 FOR ISSUANCE OF "NOTICE TO MARINERS" A MINIMUM OF 10 (TEN) DAYS IN ADVANCE OF COMMENCING ANY WORK.
- THE PURPOSE OF THIS PLAN IS TO PROVIDE TOPOGRAPHIC INFORMATION FOR A PORTION OF THE USCG STATION AND THE SURROUNDING WATERWAY.
- DATUMS: HORIZONTAL-DELAWARE STATE PLANE MERIDIAN-NAD'83, GEOID 2018 (ESTABLISHED BY NETWORK RTK GPS OBSERVATIONS) VERTICAL- NORTH AMERICAN VERTICAL DATUM-NAVD'88, GEOID 2018 (ESTABLISHED BY NETWORK TRK GPS OBSERVATIONS)
- SITE BENCH MARK: TIDAL BENCH MARK 855 8690 M ELEV: 6.42'
- EXISTING UTILITIES ARE SHOWN BASED ON OBSERVED FIELD LOCATIONS. COMPLETENESS OR CORRECTNESS THEREOF IS NOT GUARANTEED. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONTACTING THE UTILITY COMPANIES INVOLVED TO SECURE THE MOST ACCURATE UTILITY LOCATION AND ELEVATION INFORMATION AVAILABLE. NO CONSTRUCTION AROUND OR ADJACENT TO UTILITIES SHALL BEGIN WITHOUT NOTIFYING THEIR OWNERS AT LEAST TWO WORKING DAYS IN ADVANCE. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE, AND ANY DAMAGE DONE TO THEM DUE TO THE CONTRACTORS' NEGLIGENCE SHALL BE IMMEDIATELY AND COMPLETELY REPAIRED AT THE CONTRACTORS' EXPENSE. THE CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES IN THE FIELD PRIOR TO CONSTRUCTION.

KEYED NOTES:

- EXISTING PILES TO BE REMOVED COMPLETELY, TYPICAL OF 8. EXISTING PILES ARE 12" DIA. STEEL, CONCRETE FILLED PILES APPROXIMATELY 41' LONG.
- EXISTING ALUMINUM GANGWAY, APPROX 4' X 30', TO BE REMOVED, AND STORED ON SITE FOR REINSTALLATION UPON COMPLETION OF NEW FLOATING DOCK INSTALLATION.
- EXISTING INACTIVE CATHODIC PROTECTION PANELS TO BE DEMOLISHED. ALL BELOW GRADE ELECTRICAL CIRCUITS TO BE TERMINATED IN ACCORDANCE WITH LOCAL OR STATE GOVERNING CODES AND ABANDONED IN PLACE.
- EXISTING TIMBER FENDER SYSTEM TO BE DEMOLISHED. SEE SHEET C-03 FOR TYPICAL DETAILS.
- EXISTING PUMP HOUSE TO BE DEMOLISHED UNDER A SEPARATE CONTRACT.
- OPTION 1: EXISTING 250-GALLON CONVAVULT GASOLINE TANK AND 12'X5'9" SLAB TO BE REMOVED AND DISPOSED OF OFF GOVERNMENT PROPERTY. SEE E-01 FOR ELECTRICAL WORK.
- EXISTING CONCRETE WALK, APPROXIMATELY 76 SF, TO BE DEMOLISHED.
- EXISTING WATER LINE TO BE REMOVED FROM THE EXISTING BUILDING BEING DEMOLISHED (SEE NOTE 5) TO THE SPIGOT BEING DEMOLISHED (SEE NOTE 9).
- EXISTING WATER SPIGOT TO BE REMOVED.
- REMOVE EXISTING CHAIN LINK FENCE AND POSTS SET ASIDE FOR RE-INSTALLATION BETWEEN STA. 10+90 AND 11+00. DEMO EXISTING STEEL BULKHEAD CAP AND TIMBER FENDER FROM 10+09 TO 11+00.
- EXISTING EMERGENCY DISCONNECT SWITCH TO REMAIN.



A4 SURVEY AND DEMOLITION PLAN
 D-01 SCALE: 1" = 30'-0"



MARK	DESCRIPTION	DATE
4	FINAL DESIGN	FEB 2023
3	100% DESIGN	JAN 2023
2	95% DESIGN	DEC 2022
1	35% DESIGN	NOV 2022

SCALE: AS SHOWN
 PLOTTING SCALE: 1:1

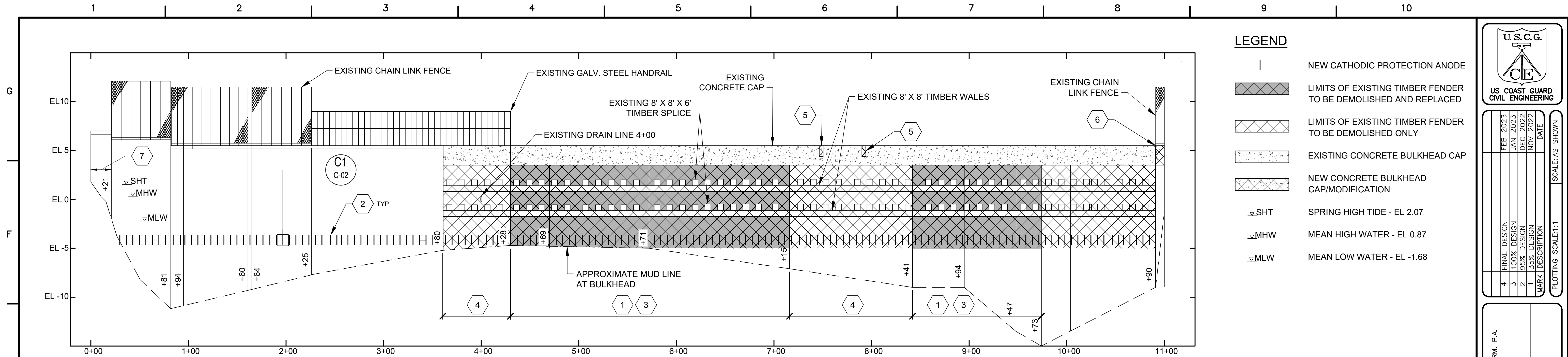
A/E COMPANY: McADAMS FIRM, P.A.
 GREENWOOD, MS
 662-459-1943
 A/E PROJECT NO.: 4332-E
 CONSULTING A/E: NA

CIVIL ENGINEERING UNIT CLEVELAND
 1240 EAST 9TH STREET
 CLEVELAND, OH 44199-2060
 PROJECT ENGINEER: EVAN AMORGIANO
 DESIGNED BY: TOLLISON
 DRAWN BY: LUTE
 CHECKED BY: TAYLOR
 EDITED BY: TOLLISON

USCG PROJECT NO.: 15914457
 USCG DRAWING NO.: 15914457-D
 USCG FILENAME: C15914457D01.DWG
 SHEET 2 OF 9

MAJOR M&R OF WATERFRONT
CG STATION INDIAN RIVER INLET
REHOBOTH BEACH DE
 CIVIL
SURVEY AND DEMO PLAN

SHEET ID
BULKHEAD
D-01



LEGEND

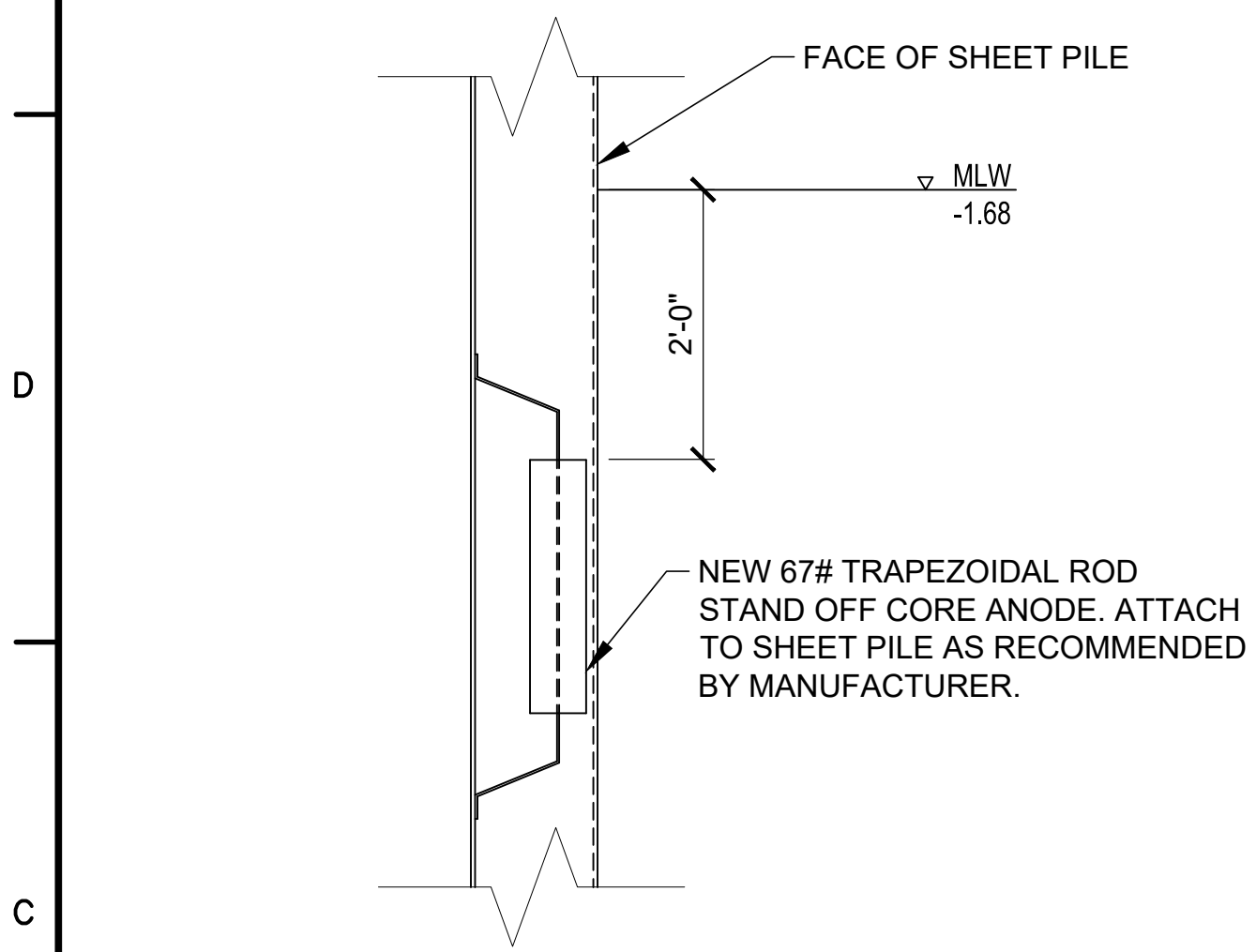
	NEW CATHODIC PROTECTION ANODE
	LIMITS OF EXISTING TIMBER FENDER TO BE DEMOLISHED AND REPLACED
	LIMITS OF EXISTING TIMBER FENDER TO BE DEMOLISHED ONLY
	EXISTING CONCRETE BULKHEAD CAP
	NEW CONCRETE BULKHEAD CAP/MODIFICATION
∇ SHT	SPRING HIGH TIDE - EL 2.07
∇ MHW	MEAN HIGH WATER - EL 0.87
∇ MLW	MEAN LOW WATER - EL -1.68



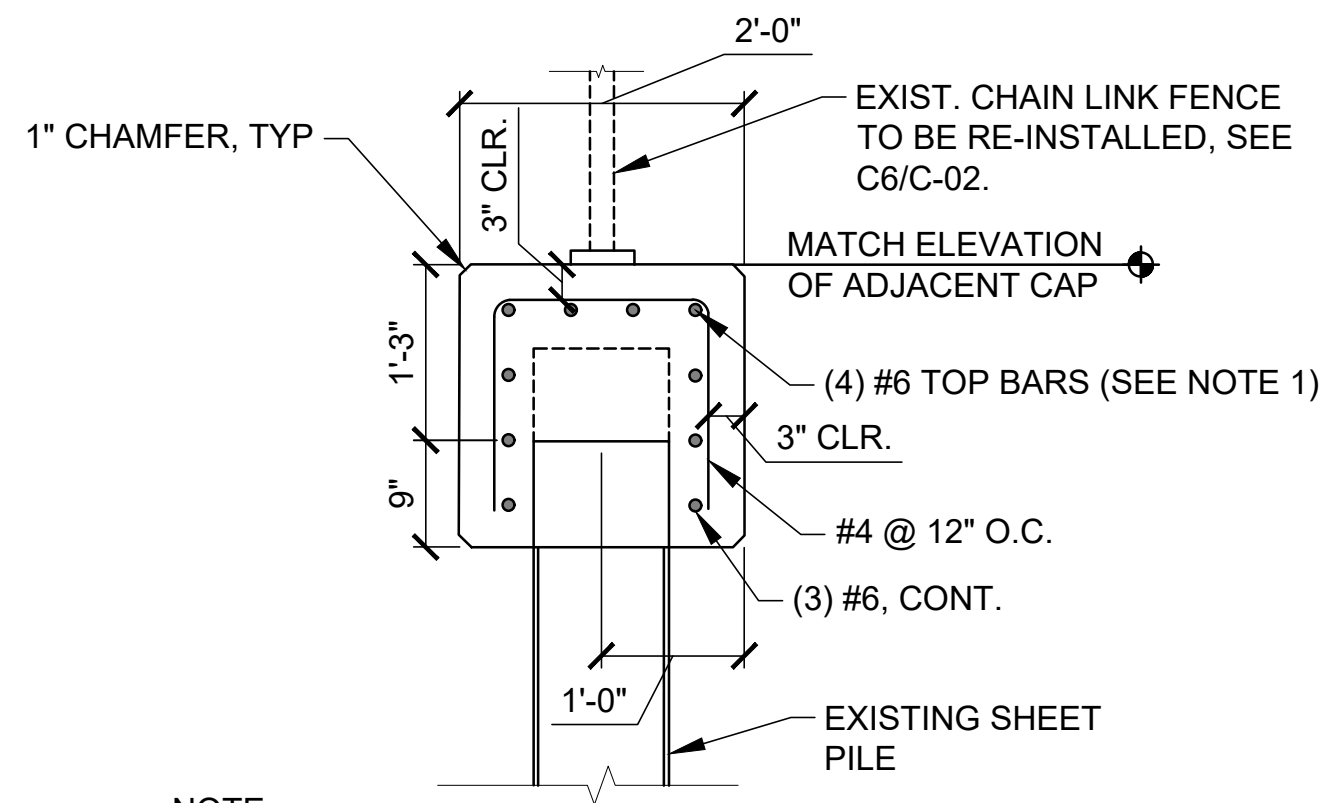
4	FINAL DESIGN	FEB 2023	DATE
3	100% DESIGN	JAN 2023	DATE
2	95% DESIGN	DEC 2022	DATE
1	35% DESIGN	NOV 2022	DATE
	MARK DESCRIPTION		

PLOTTING SCALE: 1" = 10'-0"

E4 BULKHEAD PROFILE
 C-02 SCALE: HORZ. 1" = 50'-0"
 VERT. 1" = 5'-0"

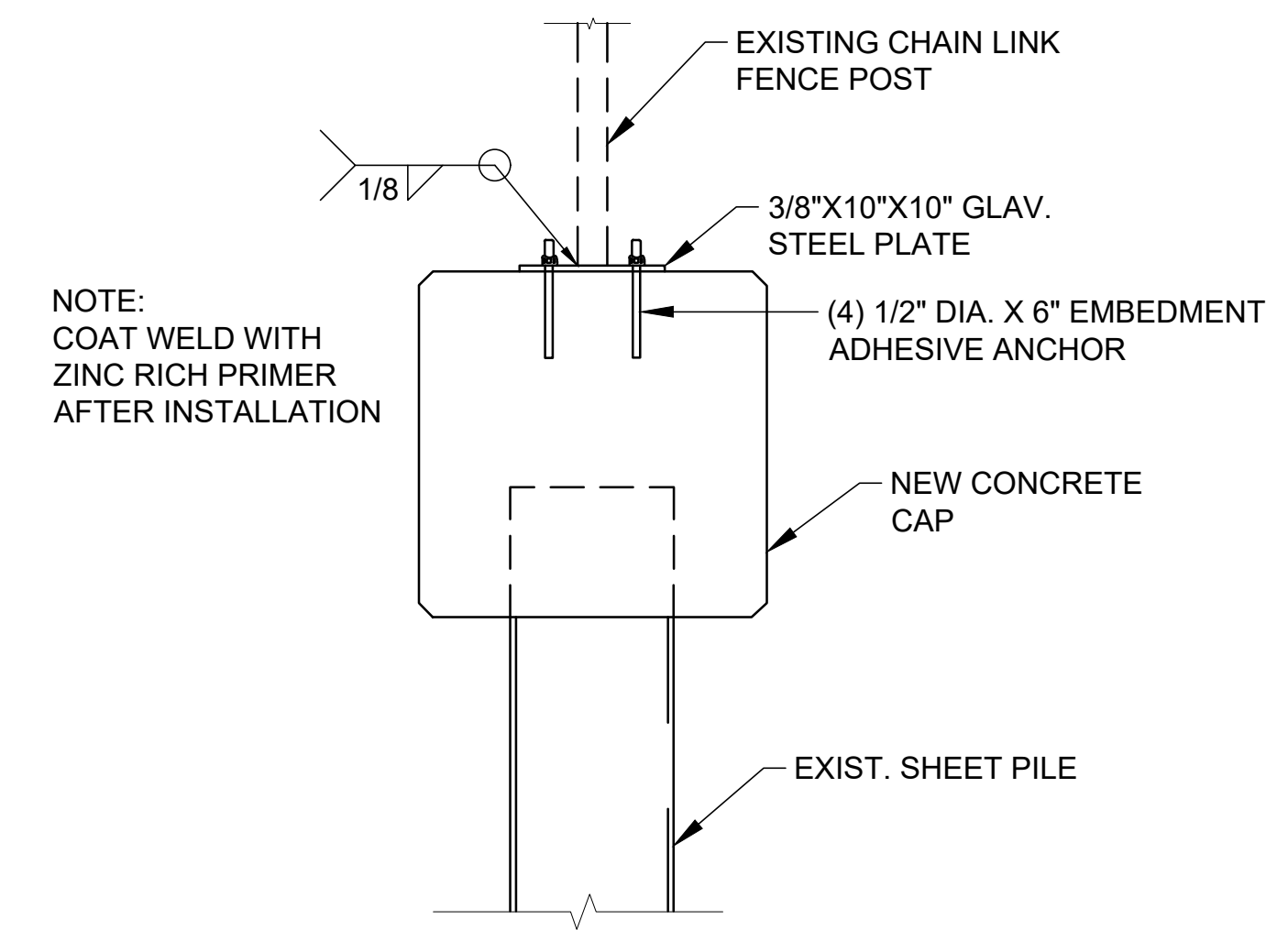


C1 NEW ALUMINUM ANODE
 C-02 SCALE: 3/4" = 1'-0"



NOTE: 1. DOWEL AND EPOXY 2 OF THE TOP BARS INTO EXISTING CONCRETE. BARS ARE TO BE EMBEDDED A MINIMUM OF 6".

C4 NEW CONCRETE BULKHEAD CAP
 C-02 SCALE: 3/4" = 1'-0"

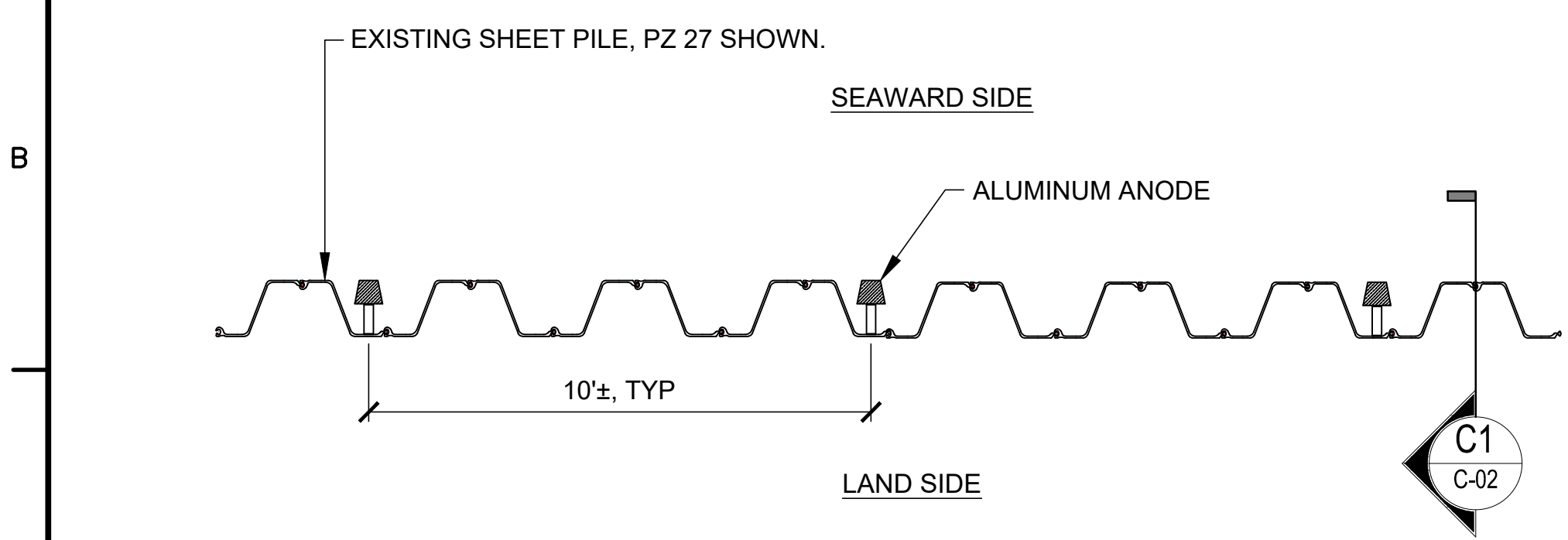


NOTE: COAT WELD WITH ZINC RICH PRIMER AFTER INSTALLATION

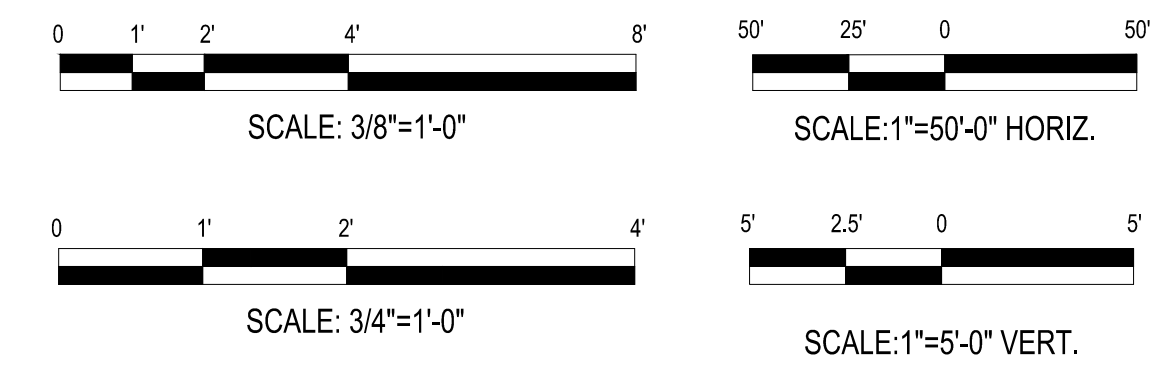
C6 CHAIN LINK FENCE RE-ATTCHMENT
 C-02 SCALE: NONE

KEYED NOTES

- 1 EXISTING TIMBER FENDER SYSTEM TO BE DEMOLISHED AND REPLACED. NOTE: 2 X 12 FACING BOARDS NOT SHOWN FOR CLARITY. SEE TYP. BULKHEAD SECTIONS ON C-03.
- 2 67 POUND ALUMINUM ANODE, TYP. LOCATE 2 FEET BELOW MEAN LOW WATER AT 10 FEET ON CENTER. (APPROX.), SEE A2/C-02.
- 3 PROVIDE NEW FENDER SYSTEM TO MATCH EXISTING, STA 4+28 TO 7+15.
- 4 EXISTING TIMBER FENDER SYSTEM TO BE DEMOLISHED.
- 5 CONCRETE BULKHEAD CAP ADJUSTMENT FOR EXISTING GANGWAY.
- 6 NEW CONCRETE BULKHEAD CAP, SEE C4/C-02. EXISTING STEEL CAP TO BE DEMOLISHED.
- 7 CLEAN AND COAT EXISTING STEEL BULKHEAD, STA. 0+00 TO 0+21.



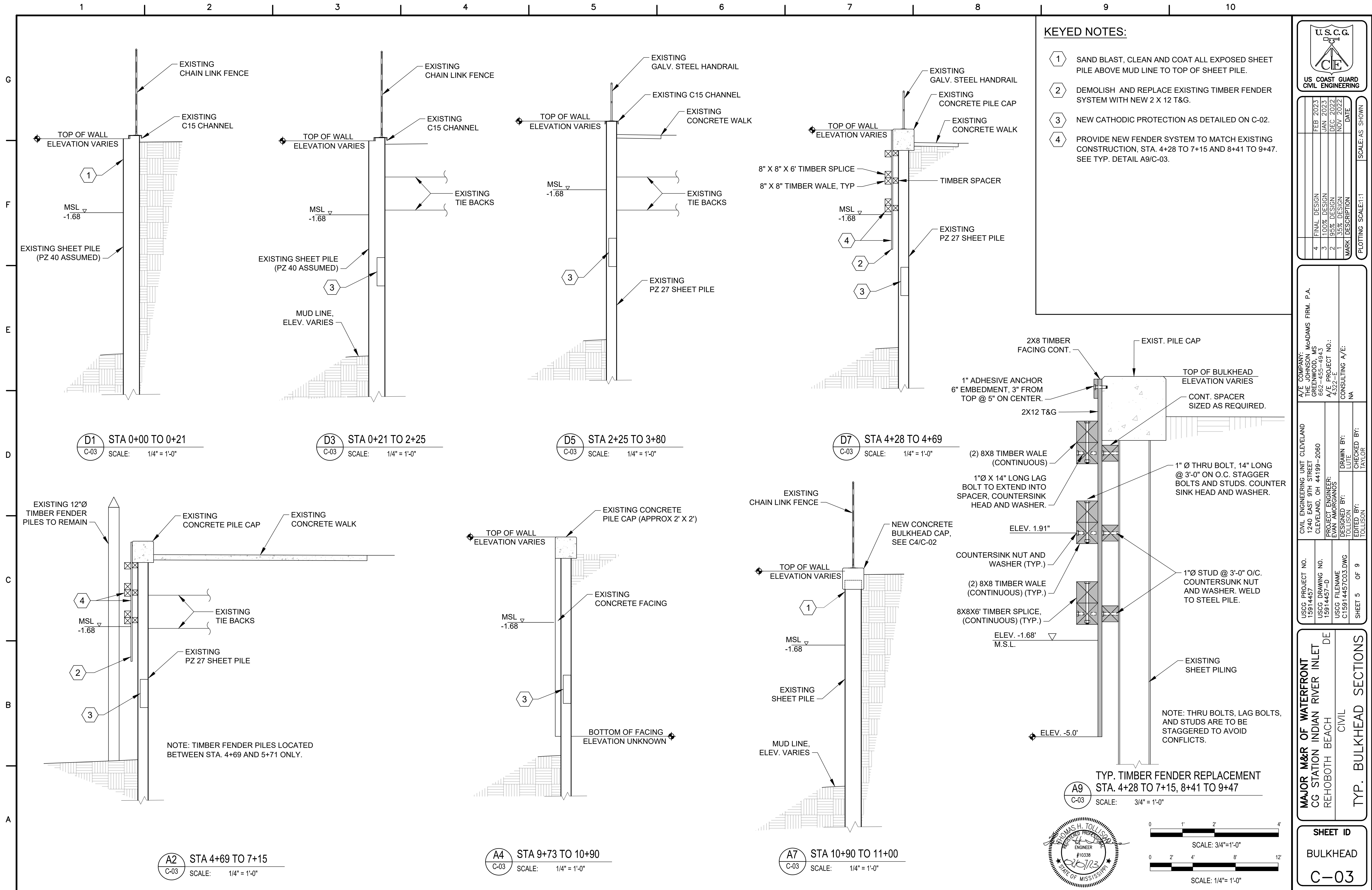
A2 TYPICAL ANODE LAYOUT PLAN
 C-02 SCALE: 3/8" = 1'-0"



USCG PROJECT NO.	15914457
USCG DRAWING NO.	15914457-D
USCG FILENAME	C15914457C02.DWG
CIVIL ENGINEERING UNIT CLEVELAND	1240 EAST 9TH STREET CLEVELAND, OH 44199-2060
PROJECT ENGINEER:	EVAN AMORGANOS
DESIGNED BY:	TOLLISON
DRAWN BY:	LUTE
CHECKED BY:	TAYLOR
EDITED BY:	TOLLISON
SHEET 4	OF 9

MAJOR M&R OF WATERFRONT CG STATION INDIAN RIVER INLET REHOBOTH BEACH DE CIVIL BULKHEAD PROFILE

SHEET ID BULKHEAD C-02



KEYED NOTES:

- 1 SAND BLAST, CLEAN AND COAT ALL EXPOSED SHEET PILE ABOVE MUD LINE TO TOP OF SHEET PILE.
- 2 DEMOLISH AND REPLACE EXISTING TIMBER FENDER SYSTEM WITH NEW 2 X 12 T&G.
- 3 NEW CATHODIC PROTECTION AS DETAILED ON C-02.
- 4 PROVIDE NEW FENDER SYSTEM TO MATCH EXISTING CONSTRUCTION, STA. 4+28 TO 7+15 AND 8+41 TO 9+47. SEE TYP. DETAIL A9/C-03.



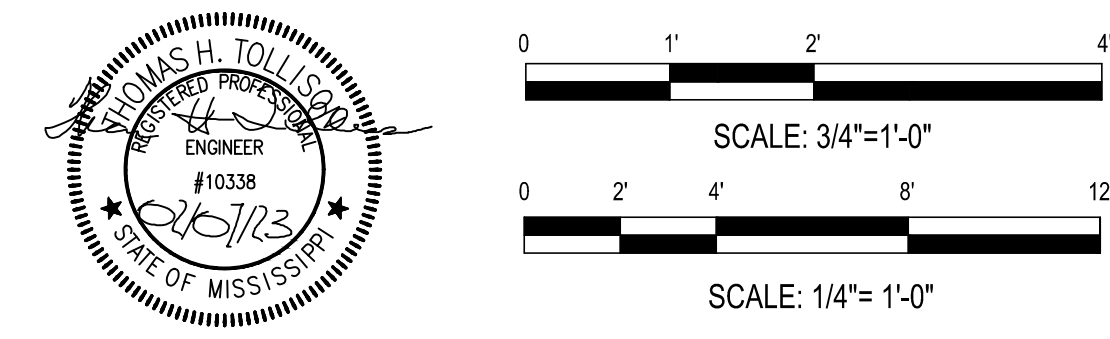
MARK	DESCRIPTION	DATE
4	FINAL DESIGN	FEB 2023
3	100% DESIGN	JAN 2023
2	95% DESIGN	DEC 2022
1	35% DESIGN	NOV 2022

A/E COMPANY: McADAMS FIRM, P.A.
 CIVIL ENGINEERING UNIT CLEVELAND
 1240 EAST 9TH STREET
 CLEVELAND, OH 44199-2060
 PROJECT ENGINEER: EVAN AMORGANOS
 DESIGNED BY: TOLLISON
 DRAWN BY: LUTE
 CHECKED BY: TAYLOR

USCG PROJECT NO. 15914457
 USCG DRAWING NO. 15914457-0
 USCG FILENAME C1591445703.DWG
 SHEET 5 OF 9

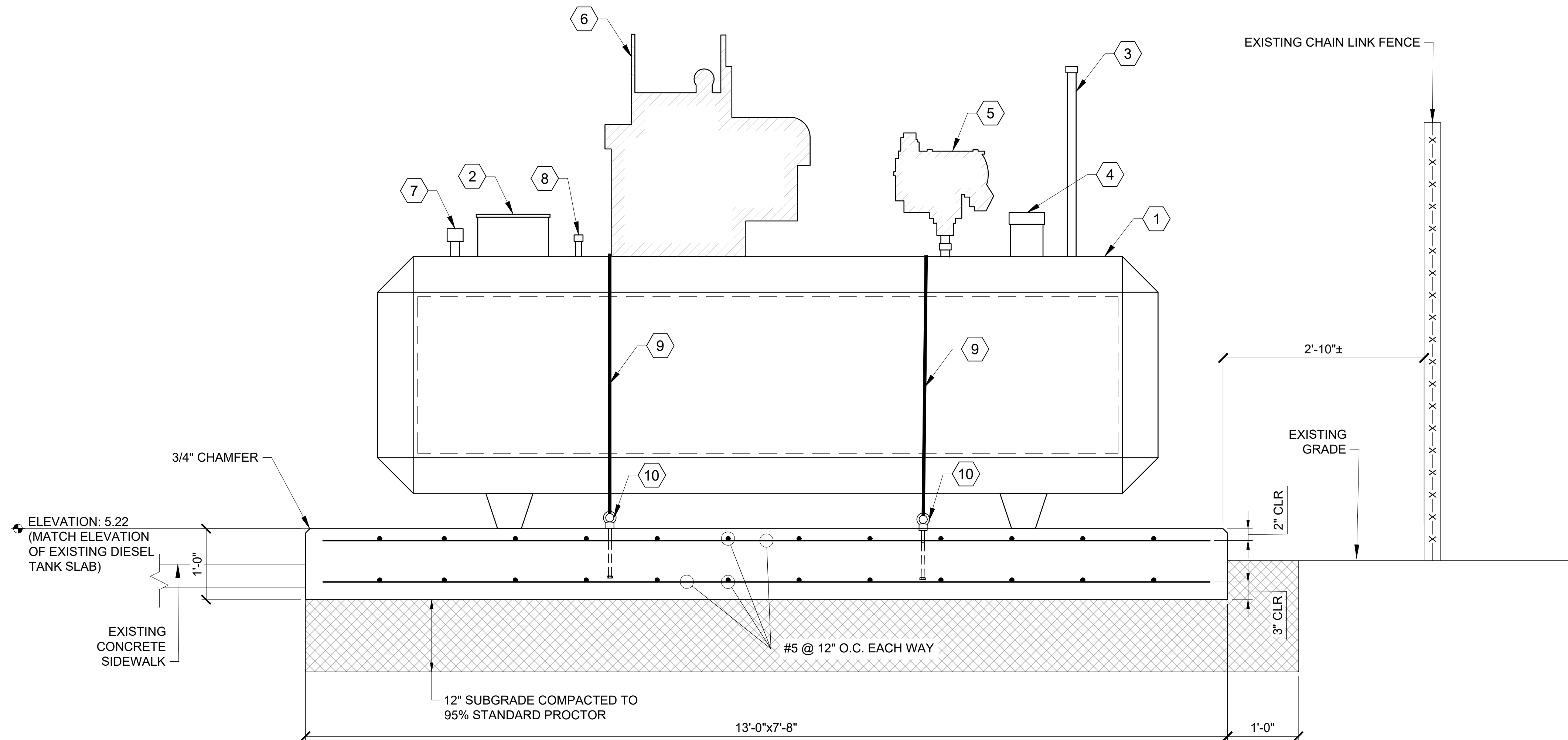
MAJOR M&R OF WATERFRONT
 CG STATION INDIAN RIVER INLET
 REHOBOTH BEACH DE
 CIVIL
TYP. BULKHEAD SECTIONS

SHEET ID
 BULKHEAD
 C-03





E2
C-05 PHOTO OF EXISTING FUEL TANKS
SCALE: NONE



A5
C-05 FUEL TANK
SCALE: 1" = 1'-0"

GENERAL NOTES

1. ALL FITTINGS, INTERNAL TANK, PIPING ETC. SHALL BE STAINLESS STEEL.
2. DISPENSER, HOSE REEL, AND EMERGENCY SHUT OFF TO BE CONNECTED TO EXISTING WIRING.
3. SEE E-01 FOR ELECTRICAL WORK.

KEYED NOTES

1. 500 GALLON, UL2085 WITH PRIMARY STEEL TANK, INTEGRAL SECONDARY CONTAINMENT AND ENGINEERED, IMPACT RESISTANT, CONCRETE OUTER VAULT.
2. 7 GALLON OVERFILL PROTECTION WITH FILL LIMITED/SHUTOFF VALUE.
3. 2" NORMAL VENT.
4. EMERGENCY RELIEF VENT.
5. 35 GPM FUEL DISPENSER WITH NEMA 4X ENCLOSURE AND EMERGENCY STOP, CONNECT TO EXISTING CIRCUIT.
6. ELECTRIC REWIND HOSE REEL WITH 150 FEET OF 1-1/2" DIAMETER FUEL HOSE. CONNECT TO EXISTING CIRCUIT.
7. HIGH LEVEL AND LEAK DETECTION SYSTEM.
8. CLOCK TYPE FUEL GAUGE.
9. 1/2" DIAMETER STAINLESS STEEL HOSE DOWN RESTRAINT.
10. 5/8" STAINLESS STEEL EYE NUT W/ 5/8"x10" STAINLESS STEEL ANCHOR BOLT.



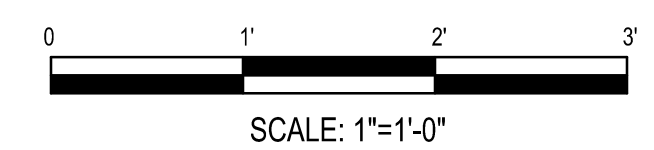
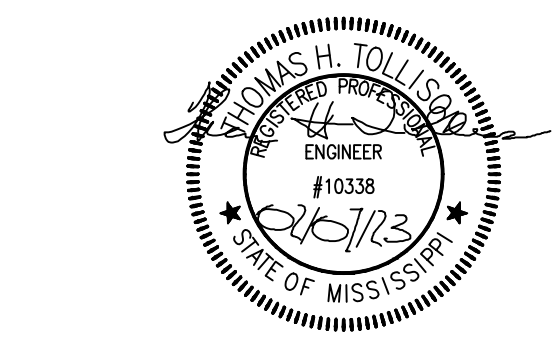
MARK	DESCRIPTION	DATE	SCALE: AS SHOWN
4	FINAL DESIGN	FEB 2023	PLOTING SCALE: 1:1
3	100% DESIGN	JAN 2023	
2	95% DESIGN	DEC 2022	
1	35% DESIGN	NOV 2022	

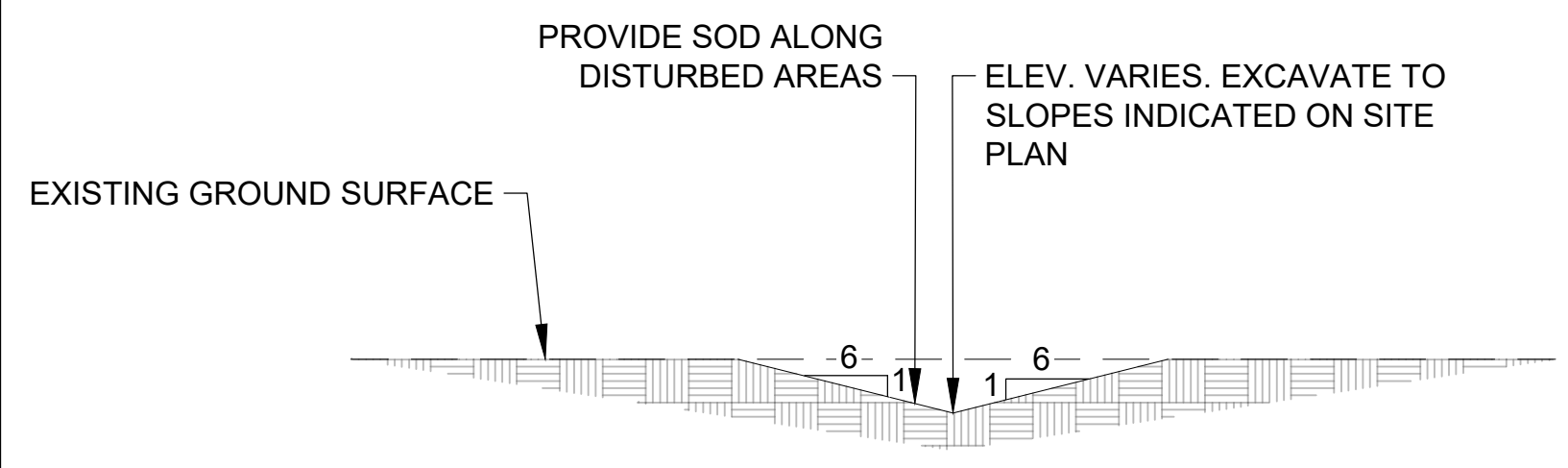
A/E COMPANY: McADAMS FIRM, P.A.
 1240 EAST 9TH STREET
 CLEVELAND, OH 44119-2060
 PROJECT ENGINEER: EVAN AMORGANOS
 DESIGNED BY: TOLLISON
 EDITED BY: TOLLISON
 DRAWN BY: LUTE
 CHECKED BY: TAYLOR
 CONSULTING A/E: NA

CIVIL ENGINEERING UNIT CLEVELAND
 1240 EAST 9TH STREET
 CLEVELAND, OH 44119-2060
 PROJECT ENGINEER: EVAN AMORGANOS
 DESIGNED BY: TOLLISON
 EDITED BY: TOLLISON
 DRAWN BY: LUTE
 CHECKED BY: TAYLOR
 USCG PROJECT NO. 15914457
 USCG DRAWING NO. 15914457-D
 USCG FILENAME C15914457C05.DWG
 SHEET 7 OF 9

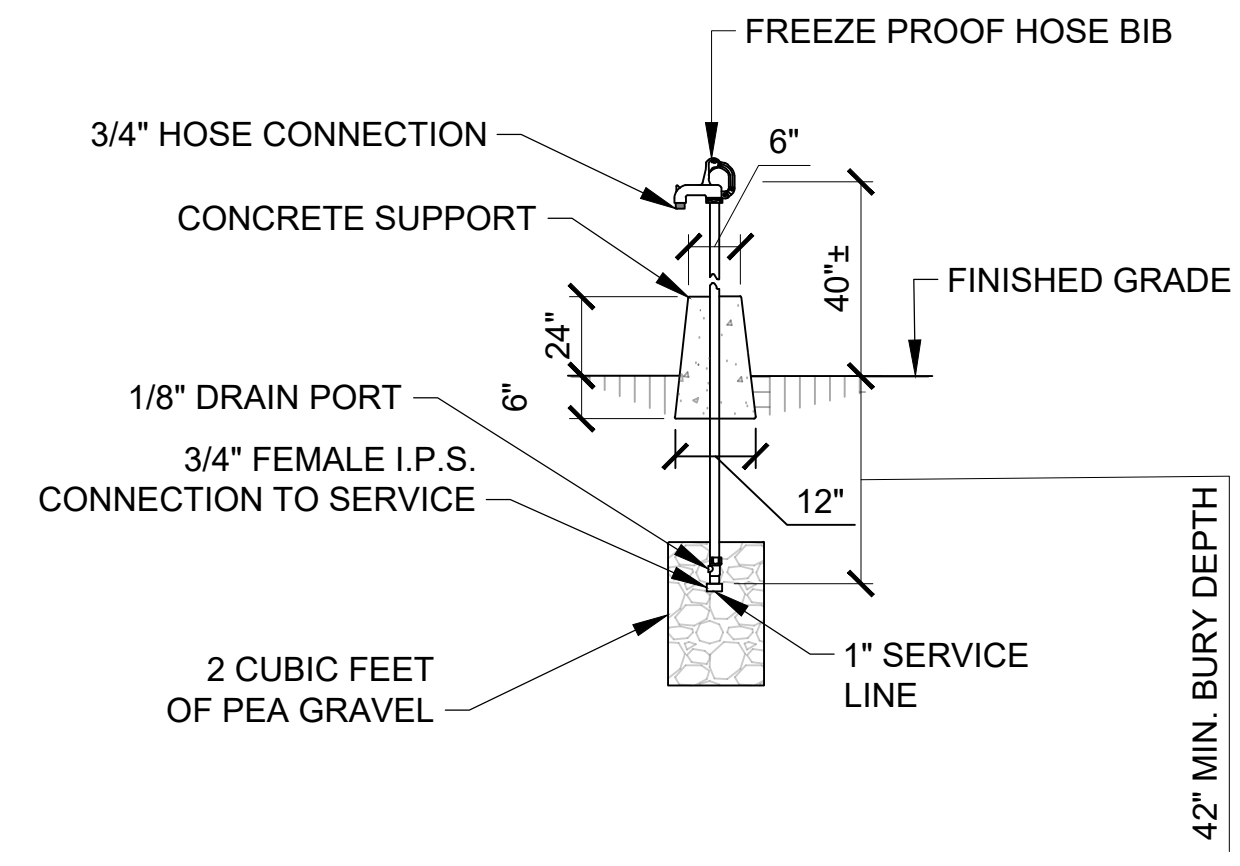
**MAJOR M&R OF WATERFRONT
 CG STATION INDIAN RIVER INLET
 REHOBOTH BEACH DE**
 CIVIL
FUEL TANK DETAILS

SHEET ID
 FUEL TANK
 C-05

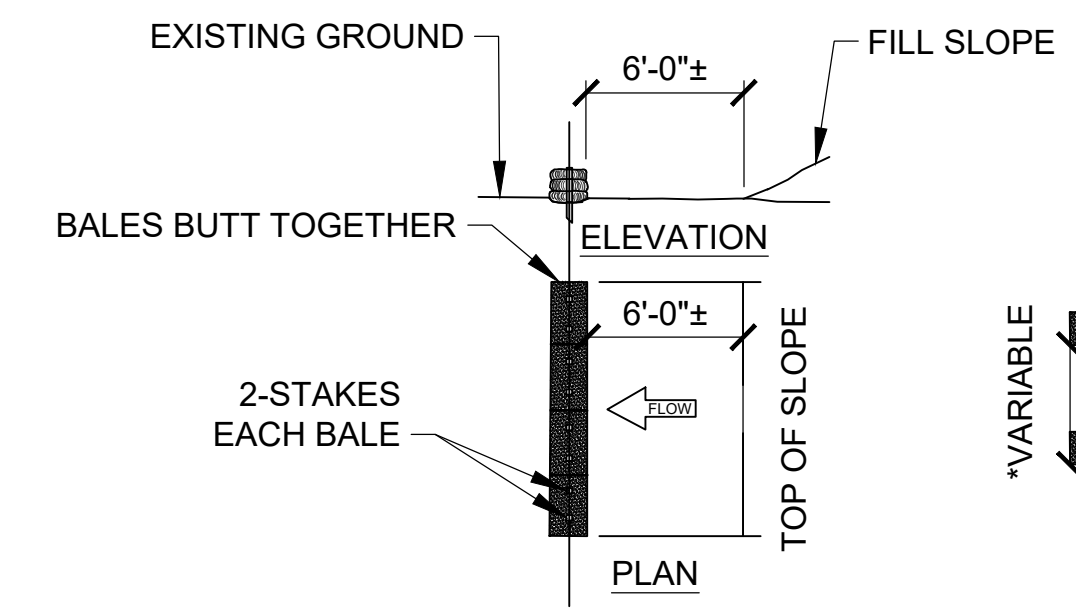




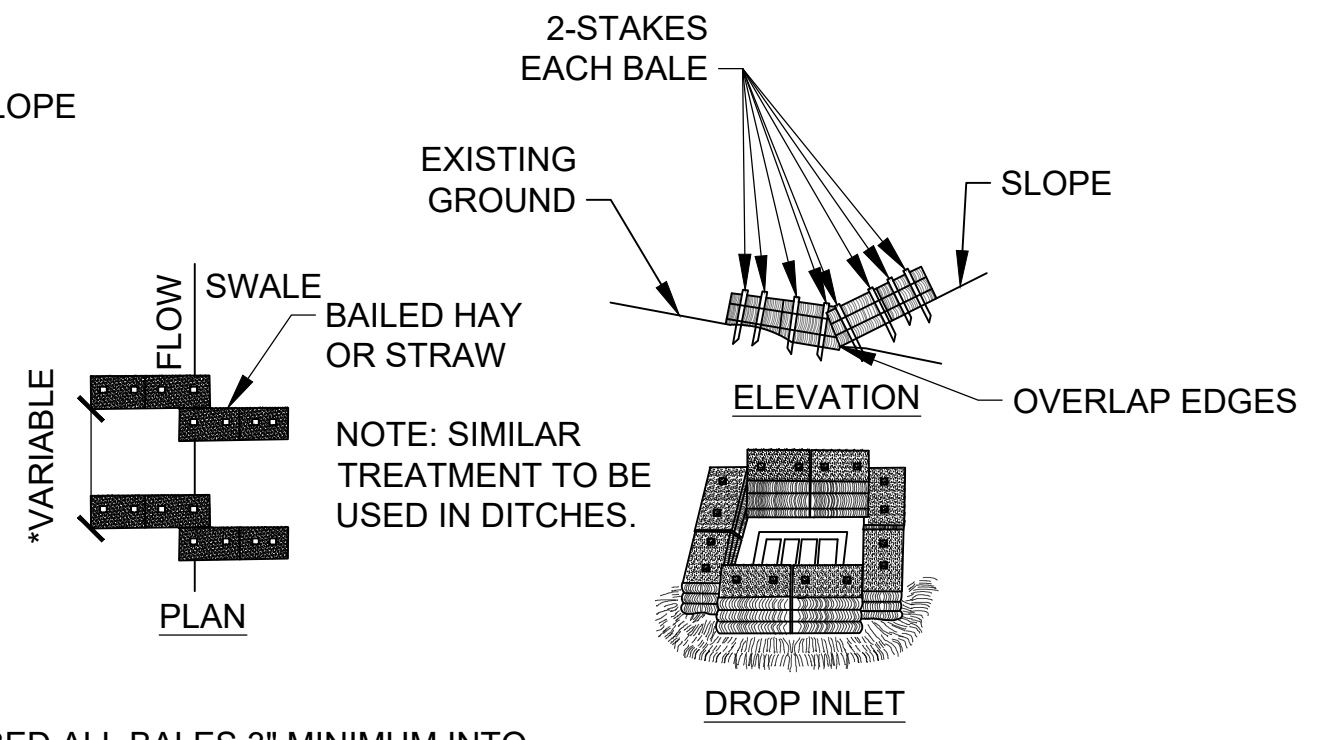
F2 TYP. DRAINAGE SWALE
C-06 SCALE: NONE



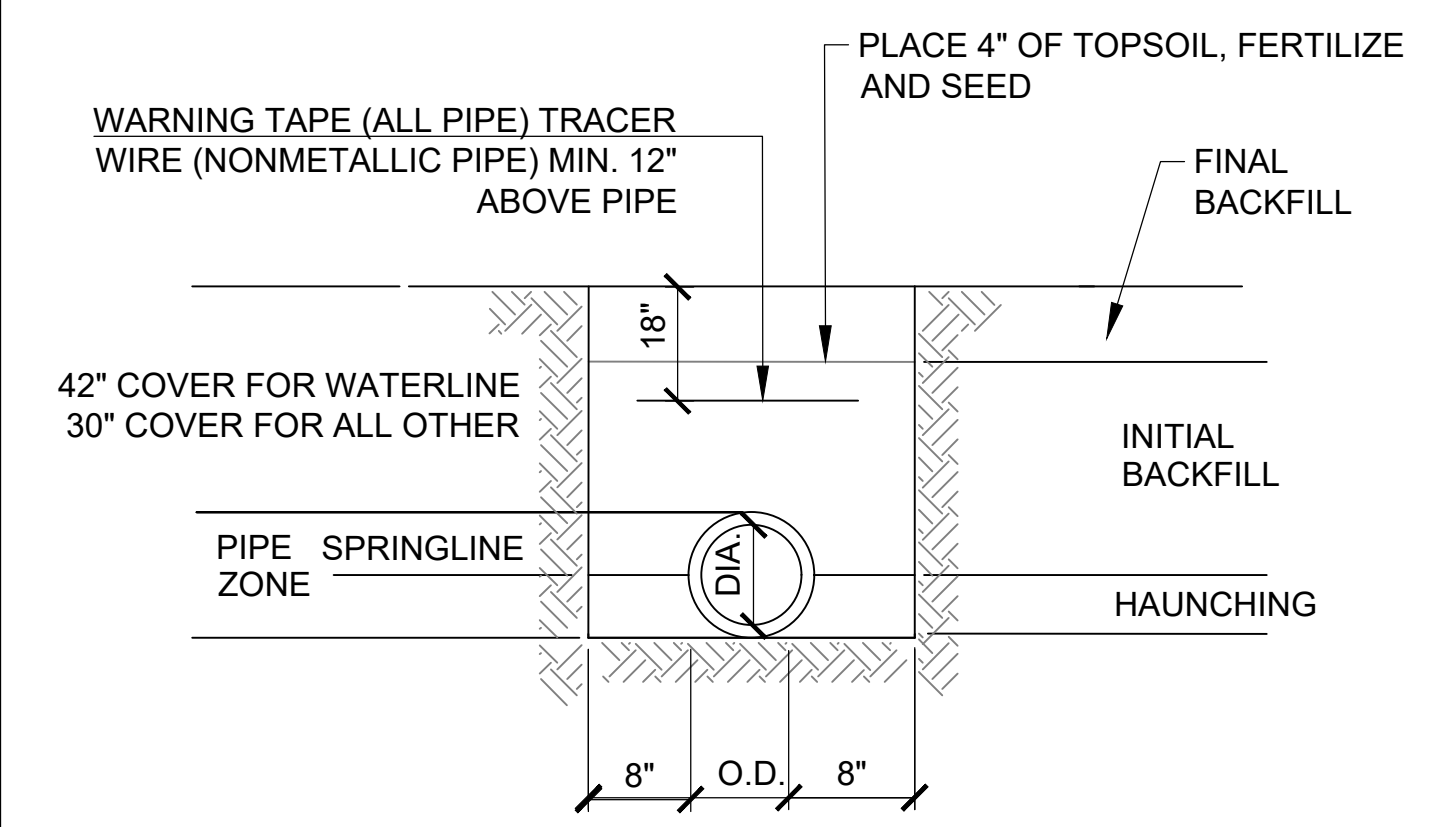
F5 FREEZE PROOF HYDRANT DETAIL
C-06 SCALE: NONE



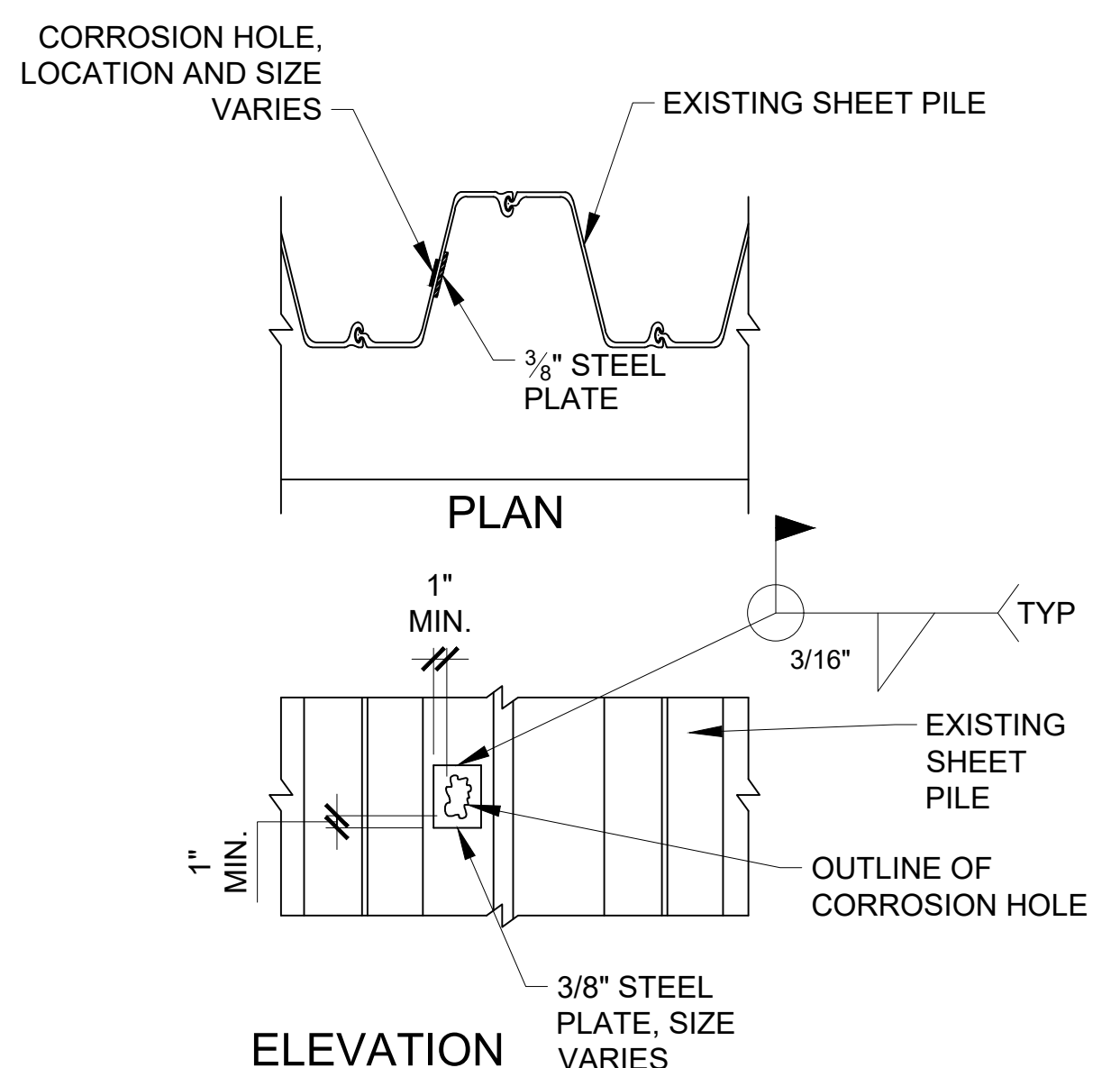
FALL OF DITCH (%)	DISTANCE * (ft.)
0-1	100'
1-2	50'
>2	25'



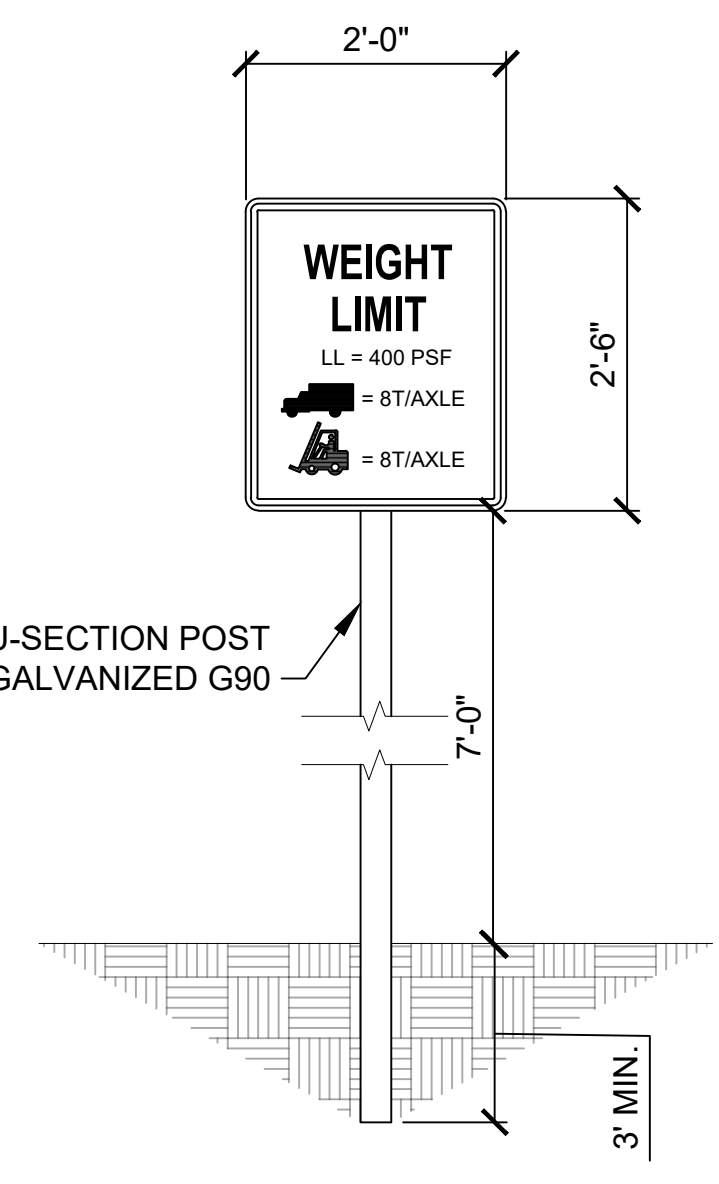
E8 SWALE AND INLET PROTECTION
C-06 SCALE: NONE



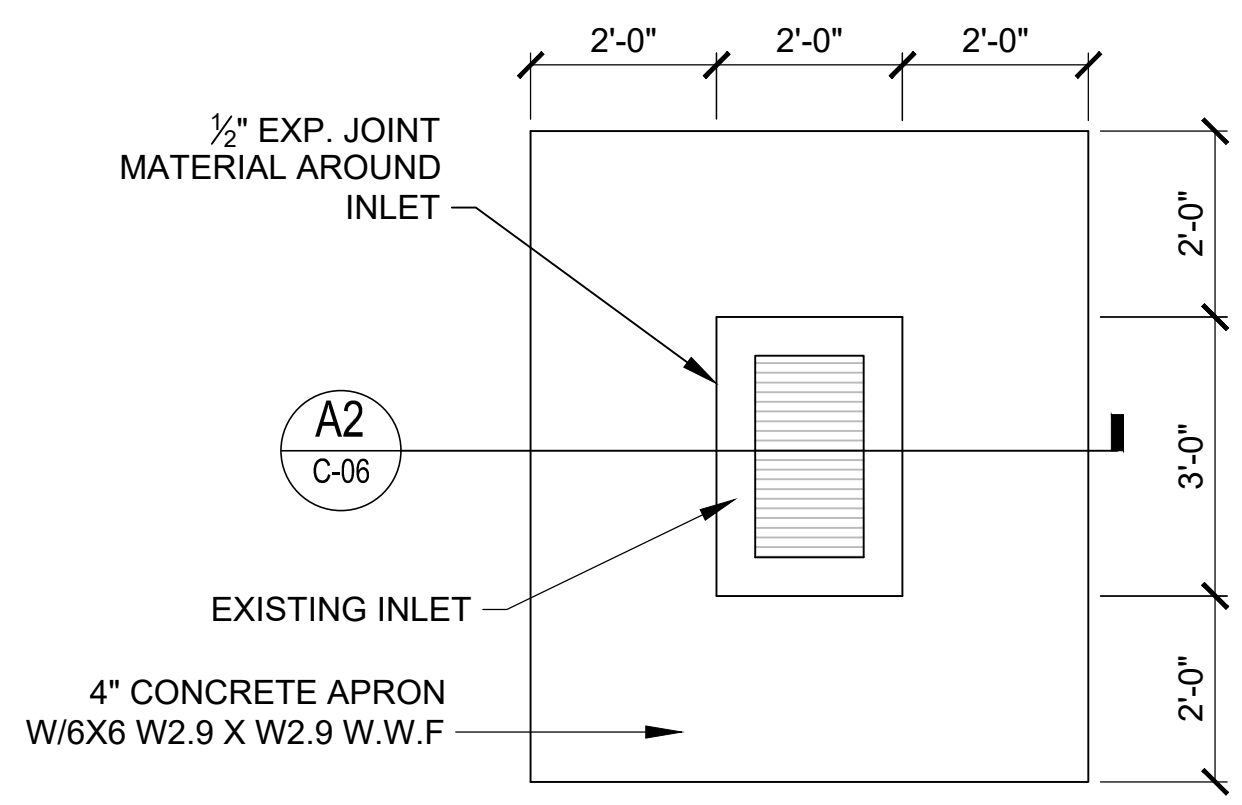
C2 TRENCH DETAIL
C-06 SCALE: NONE



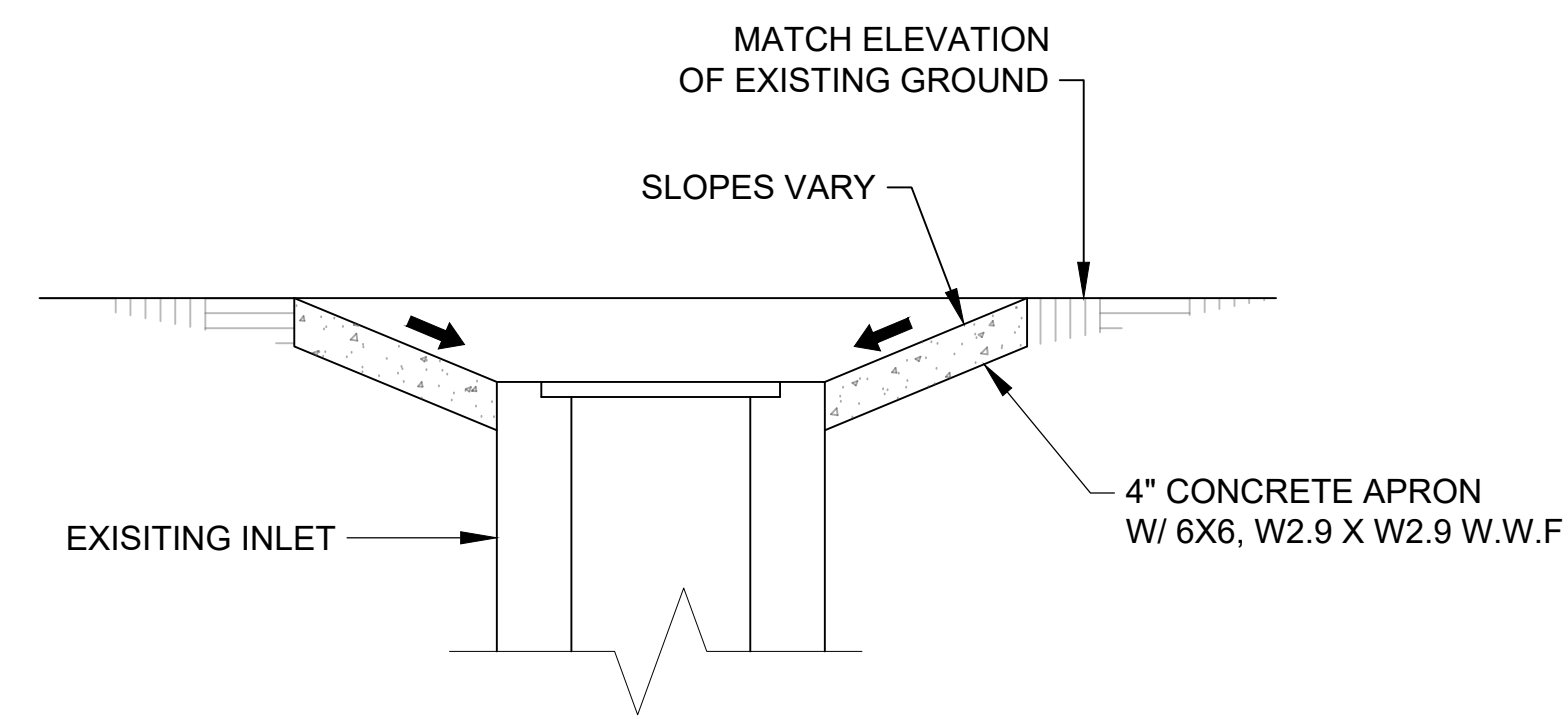
C4 TYPICAL CORROSION HOLE REPAIR
C-06 SCALE: NONE



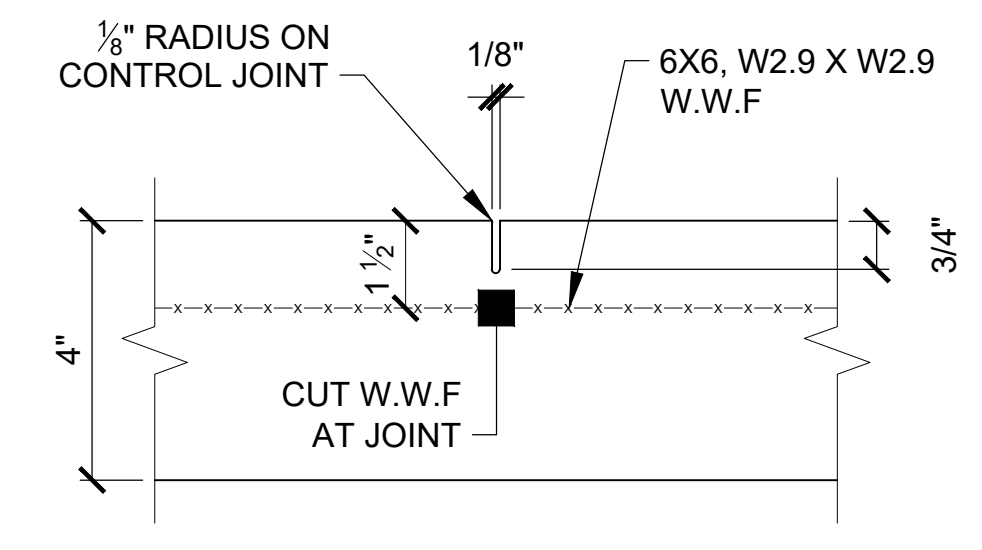
C6 LOAD LIMIT SIGN
C-06 SCALE: NONE



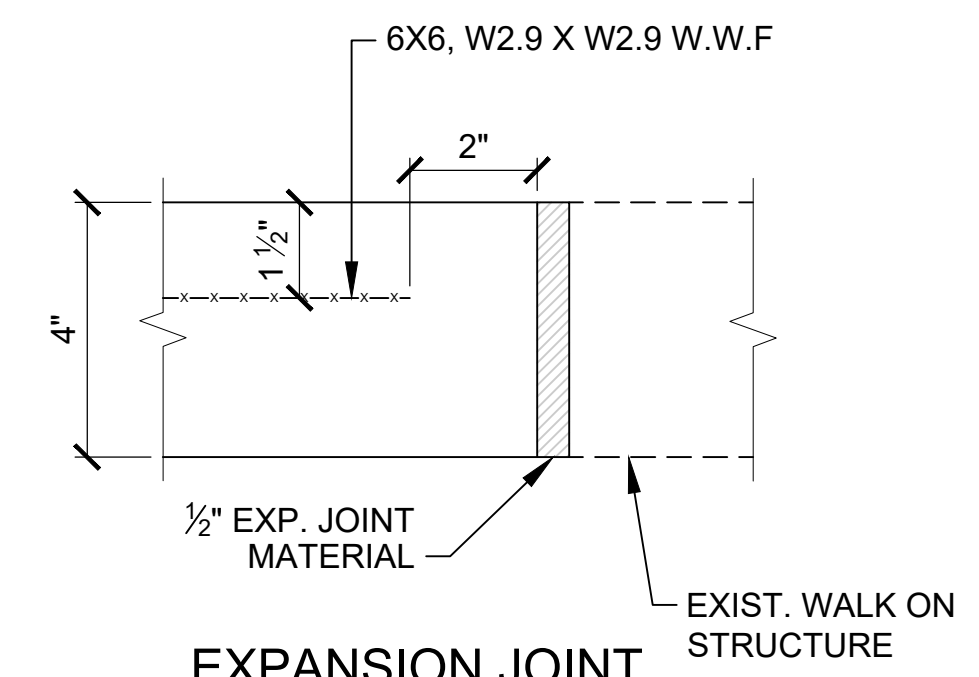
C8 STORM DRAIN INLET PLAN
C-06 SCALE: NONE



A2 TYP. SECTION AND CONCRETE APRON
C-06 SCALE: NONE



CONTROL JOINT
6" ON CENTER MAX



EXPANSION JOINT
EXIST. WALK ON STRUCTURE

A6 CONCRETE SIDEWALK DETAILS
C-06 SCALE: NONE



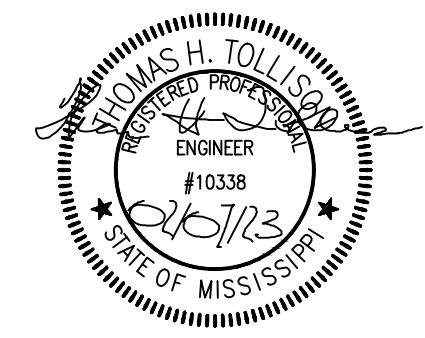
DATE	DESCRIPTION	SCALE
FEB 2023	FINAL DESIGN	AS SHOWN
JAN 2023	100% DESIGN	
DEC 2022	95% DESIGN	
NOV 2022	35% DESIGN	

A/E COMPANY: McADAMS FIRM, P.A.
CIVIL ENGINEERING UNIT CLEVELAND
1240 EAST 9TH STREET
CLEVELAND, OH 44119-2060
PROJECT ENGINEER: EVAN AMORGANOS
DESIGNED BY: TOLLISON
DRAWN BY: LUTE
CHECKED BY: TAYLOR

USCG PROJECT NO. 15914457
USCG DRAWING NO. 15914457-D
USCG FILENAME C15914457C06.DWG
SHEET 8 OF 9

MAJOR M&R OF WATERFRONT
CG STATION INDIAN RIVER INLET
REHOBOTH BEACH DE
CIVIL
MISC. CIVIL DETAILS

SHEET ID
CIVIL
C-06



GENERAL NOTES:

1. THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO DEMOLITION WORK.
2. THE EXTENT OF DEMOLITION INDICATED IS BASED ON AS BUILT DRAWINGS PROVIDED BY THE OWNER AND FIELD OBSERVATIONS. ANY DISCREPANCIES BETWEEN THE ACTUAL CONDITIONS AND THOSE INDICATED ARE TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER AS SOON AS DISCREPANCIES ARE DISCOVERED.
3. ASSUME NEC CLASS 1 DIV 2 HAZARD FOR ALL WORK WITHIN 20-FT OF TANK PAD UP TO 18-IN ABOVE GRADE, OR WITHIN 18-IN OF FUEL TANK.
4. CONDUCTORS: ALL CONDUCTORS SHALL BE COPPER. MINIMUM #12 XHHW-2.
5. ALL CONDUITS AND FITTINGS MUST BE A MINIMUM 3/4-IN PVC-COATED RIGID STEEL CONDUIT LISTED FOR LOCATION.

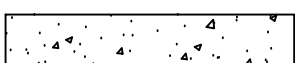

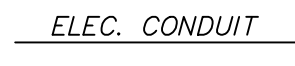
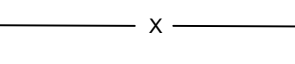



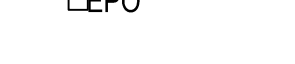
DEMOLITION KEYED NOTES:

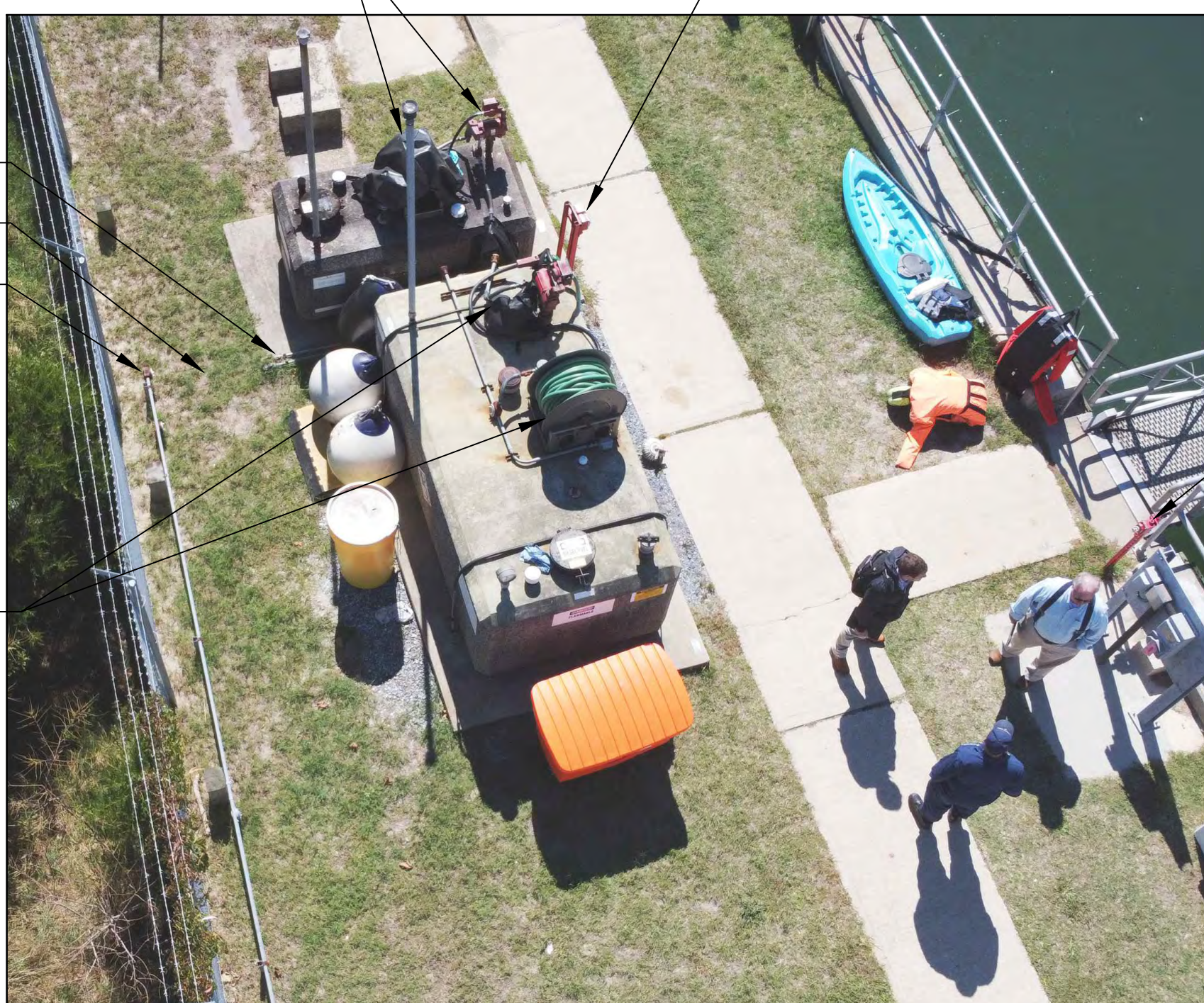
1. EXISTING DIESEL TANK AND POWERED HOSE REEL. DEMOLISH EXISTING ELECTRICAL BRANCHES FOR FUEL PUMP AND POWERED HOSE REEL BACK TO PREVIOUS JUNCTION BOX. TERMINATE CONDUCTORS WITH WIRE NUTS AND ELECTRICAL TAPE AND RETAIN BOTH FEEDS AT JUNCTION BOX FOR REUSE.
2. EXISTING GASOLINE TANK AND POWERED HOSE REEL. DEMOLISH EXISTING ELECTRICAL BRANCHES FOR FUEL PUMP AND POWERED HOSE REEL BACK TO PREVIOUS JUNCTION BOX. PROVIDE TEMPORARY POWER FOR EXISTING FUEL PUMP AND POWERED HOSE REEL DURING CONSTRUCTION. TEMPORARY WIRING, CONDUIT AND SWITCHING MUST MAINTAIN CLASS 1 DIV 2 HAZARD REQUIREMENTS FOR LOCATION AND MAINTAIN INTERFACE WITH EXISTING EMERGENCY SHUTOFF CONTROLS.
3. EXISTING EMERGENCY SHUTOFF STATION. PRESERVE AND PROTECT DURING CONSTRUCTION. TYPICAL OF 2.
4. EXISTING MANUAL SWITCHES FOR DIESEL AND GASOLINE PUMPS. RELOCATE ADJACENT TO DIESEL TANK. COORDINATE RELOCATION AND OUTAGE WITH THE FACILITY.
5. EXISTING JUNCTION BOX. POINT OF DEMARCATION FOR DEMOLITION WORK.

NEW WORK KEYED NOTES:

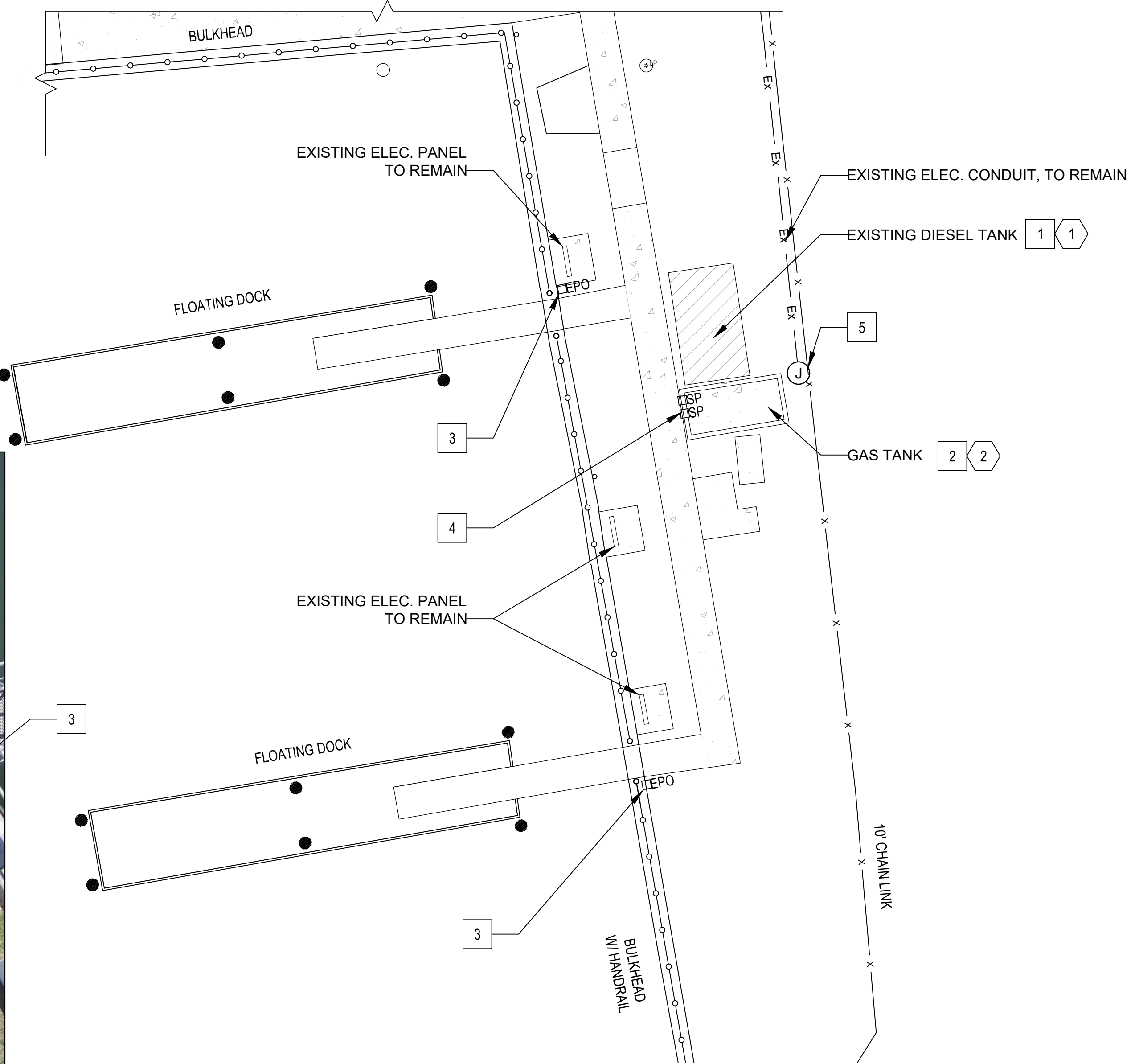
1. EXISTING DIESEL TANK. PROVIDE NEW CONDUIT, CONDUCTORS AND SWITCH FROM JUNCTION BOX FOR EXISTING FUEL PUMP. PROVIDE NEW CONDUIT AND CONDUCTORS FOR EXISTING POWERED HOSE REEL. UTILIZE EXISTING CIRCUITS. REFER TO DEMOLITION KEYED NOTES 1 AND 5. PRESERVE FUNCTION OF EXISTING EMERGENCY SHUTOFF SYSTEM. REFER TO DEMOLITION KEYED NOTE 3.
2. NEW 500 GALLON GASOLINE TANK AND SLAB. PROVIDE NEW CONDUIT, CONDUCTORS AND SWITCH FROM JUNCTION BOX FOR NEW FUEL PUMP. PROVIDE NEW CONDUIT AND CONDUCTORS FROM EXISTING JUNCTION BOX FOR NEW POWERED HOSE REEL. UTILIZE EXISTING CIRCUITS. REFER TO DEMOLITION KEYED NOTES 2 AND 5. PRESERVE FUNCTION OF EXISTING EMERGENCY SHUTOFF SYSTEM. REFER TO DEMOLITION KEYED NOTE 3.
3. ROUTE CONDUIT UNDERGROUND FROM JUNCTION BOX TO EDGE OF SLAB.
4. ROUTE CONDUIT EXPOSED ABOVE SLAB.

LEGEND:

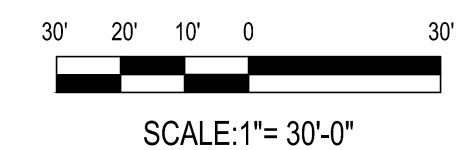
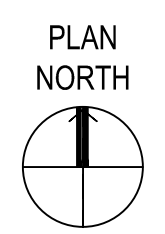
-  CONCRETE
-  PAVEMENT
-  ELECTRIC CONDUIT
-  FENCE LINE
-  LIGHT POLE W/ 1.5' DIA CONCRETE BASE
-  ELECTRIC VAULT
-  EXPLOSION PROOF MUSHROOM STYLE EMERGENCY SHUTOFF SWITCH
-  EXPLOSION PROOF SINGLE-POLE 20A SWITCH



A2
E-01
PHOTO OF FUEL TANKS
SCALE: NONE



A5
E-01
ELECTRICAL PLAN
SCALE: 1" = 10'-0"



MARK	DESCRIPTION	DATE
4	FINAL DESIGN	FEB 2023
3	100% DESIGN	JAN 2023
2	95% DESIGN	DEC 2022
1	35% DESIGN	NOV 2022

PLOTTING SCALE: 1:1
SCALE: AS SHOWN

A/E COMPANY: McADAMS FIRM, P.A.
 1240 EAST 9TH STREET
 CLEVELAND, OH 44119-2060
 PROJECT ENGINEER: EVAN AMORGANOS
 DESIGNED BY: NICHOLS
 DRAWN BY: LUTTE
 CHECKED BY: TAYLOR

USCG PROJECT NO. 15114457
 USCG DRAWING NO. 15914457-D
 USCG FILENAME C15914457E01.DWG
 SHEET 9 OF 9

**MAJOR M&R OF WATERFRONT
 CG STATION INDIAN RIVER INLET
 REHOBOTH BEACH DE**
 ELECTRICAL
 SITE PLAN

SHEET ID
 MULTIPLE
E-01