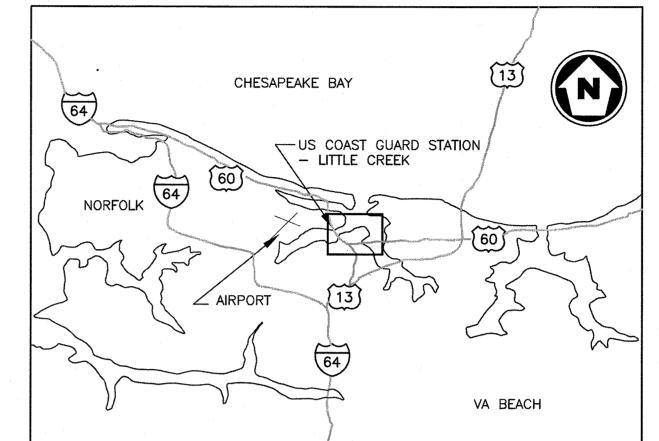


MAJOR M&R OF WATERFRONT



VICINITY MAP
SCALE: NONE

U. S. COAST GUARD CIVIL ENGINEERING UNIT CLEVELAND

USCG. CEU CLEVELAND 1240 EAST 9TH STREET CLEVELAND, OH 44199-2060

ISSUE

USCG CEU

CLEVELAND, OHIO

(216) 902-6200

THE JOHNSON McADAMS FIRM

GREENWOOD, MISSISSIPPI 38930

MARK DATE DESCRIPTION

A/E PROJECT NO: 1367-M

CAD FILE NAME: C8460G01.dwg

DESIGNED BY: AEJ

DRAWN BY: ADD

EDITED BY: ADD

CHECKED BY: FEJ

SCALE: AS SHOWN PLOT SCALE: 1:1
SHEET TITLE

MAJOR M&R OF WATERFRONT
CG STATION LITTLE CREEK
VIRGINIA BEACH
WATERFRONT
GENERAL

TITLE PAGE

REVIEWED BY: REVIEWED BY:

G.A. DEVAN

G.P. LODGE

G.S. PLACZEK

PROJECT ENG. BRANCH CHIEF TECH. DIRECTOR

S.P. HANNIGAN, CDR.

APPROVING OFFICER

DATE

PROJECT NUMBER

DRAWING NUMBER

6117402

DISCIPLINE/SHT NO

SHEET 1 OF 17

EAST PROPERTY LINE BASKETBALL COURT - GASOLINE TANK STATION BUILDING BOATHOUSE OM2 ASPHALT DRIVE CONCRETE PAD CONTRACTOR ACCESS TO STATION GATE GARAGE CONTRACTOR'S CUTTER OG1 LAY DOWN AREA WEST BULKHEAD WEST PROPERTY LINE

١		DRAWING INDEX		DRAWING I	IDEX	
	SHEET	TITLE	SHEET	Ţ	ΓLE	
	G-01	TITLE PAGE	C-06	CIVIL — BULKHEAD IMP	OVEMENTS	
	G-02	GENERAL - SITE SURVEY SOUTH	C-07	CIVIL — BULKHEAD REP	AIR DETAIL	
	G-03	GENERAL - SITE SURVEY NORTH	C-08	CIVIL – PIER BULKHEAD	UTILITIES	
	G-04	GENERAL - MUDLINE SOUNDINGS	C-09	CIVIL - PIER IMPROVEN	ENTS	
·	C-01	CIVIL — EXIST. BULKHEAD PLANS	C-10	CIVIL — UTILITY DETAILS		
	C-02	CIVIL — EXIST. BULKHEAD SECTIONS	C-11	CIVIL - SECURITY FEND	E DETAILS	
	C-03	CIVIL — EXIST. BULKHEAD DETAILS	C-12	CIVIL — FENCE & GATE	DETAILS	
	C-04	CIVIL - EXIST./DEMO PIER PLAN	C-13	CIVIL - MISC FENCE DE	TAILS	
	C-05	CIVIL - BULKHEAD DEMOLITION PLAN				

US COAST GUARD STATION
- LITTLE CREEK

LOCATION MAP

SCALE: NONE

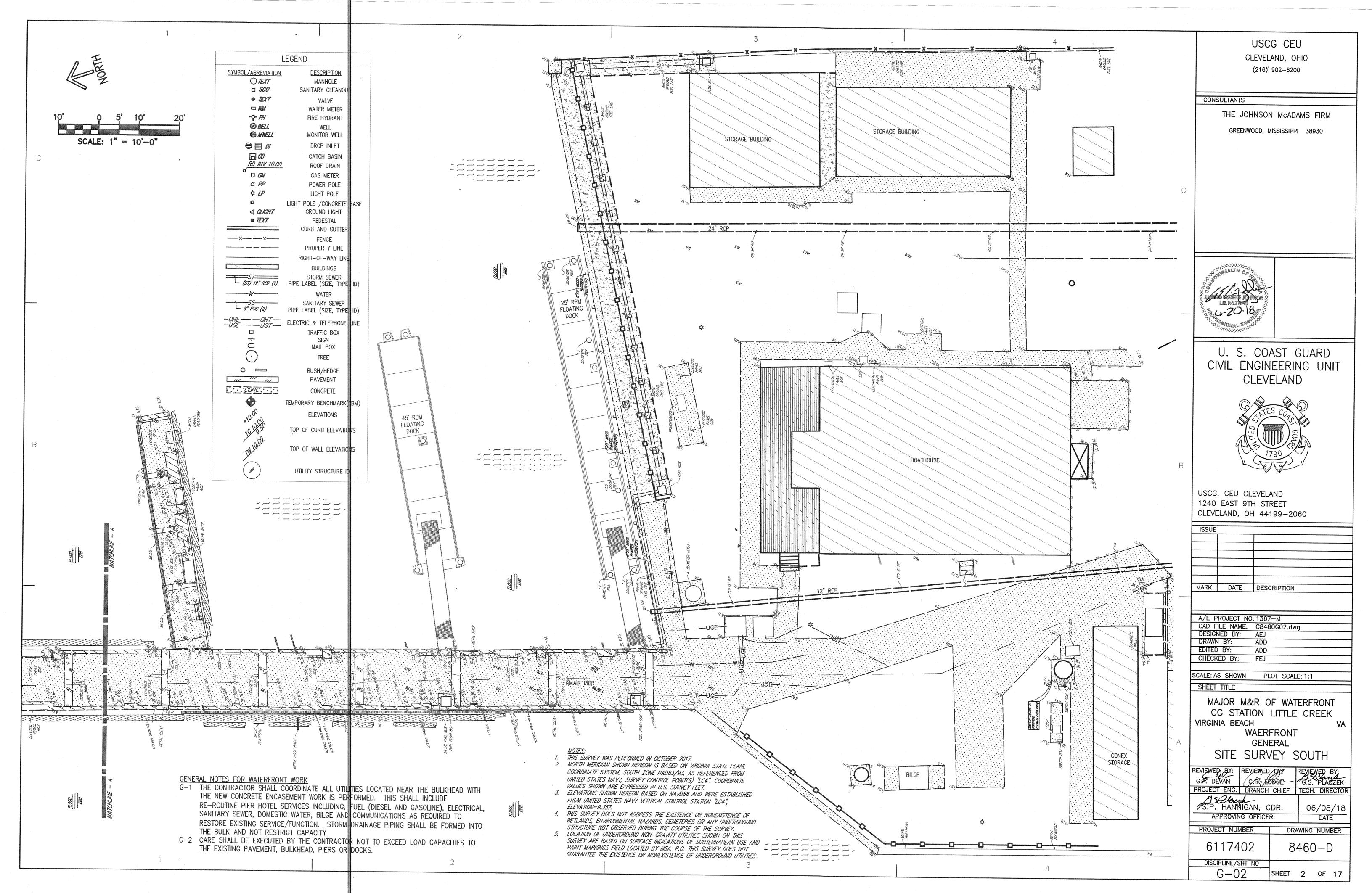
PROJECT WORK AREA

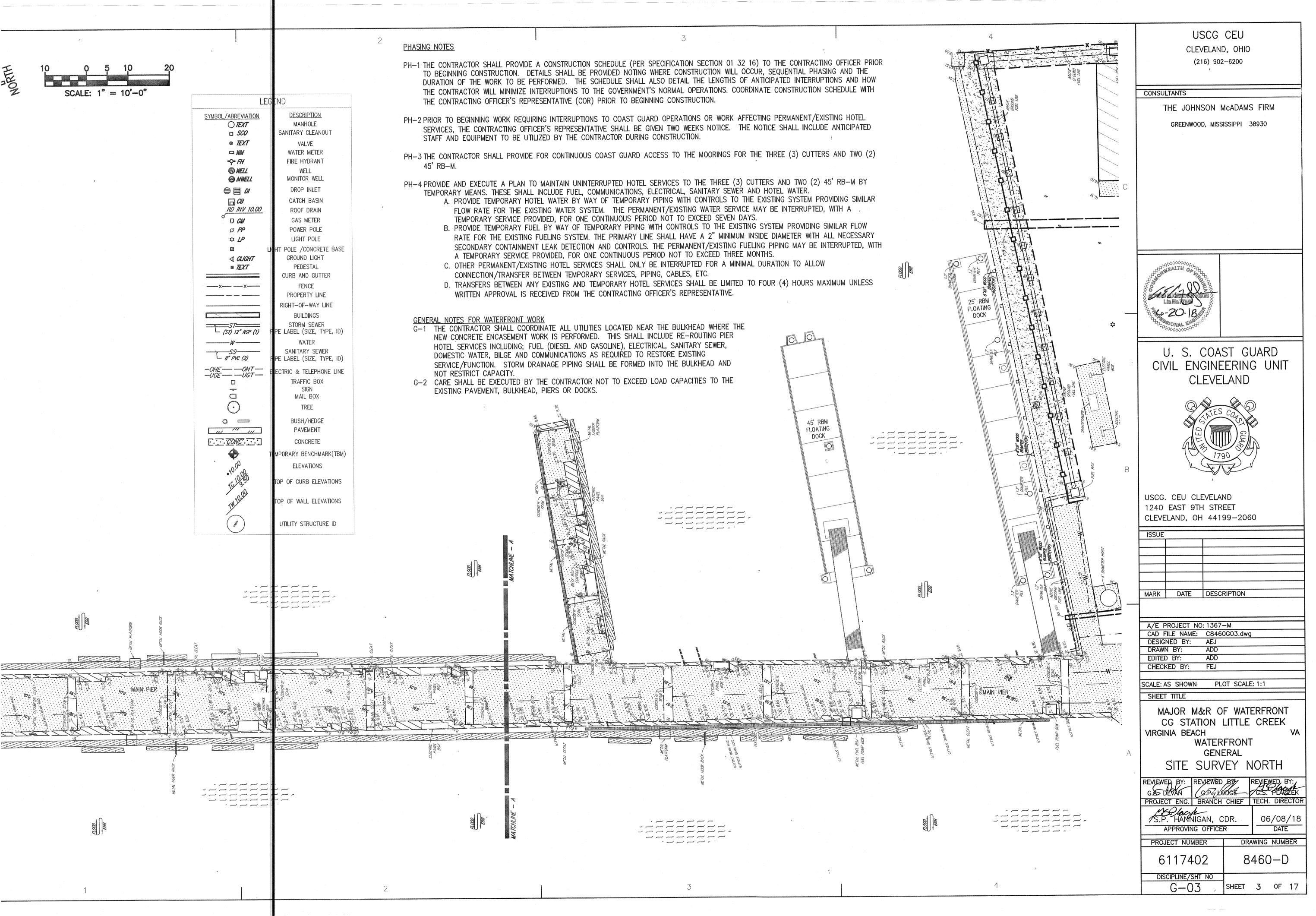
CUTTER

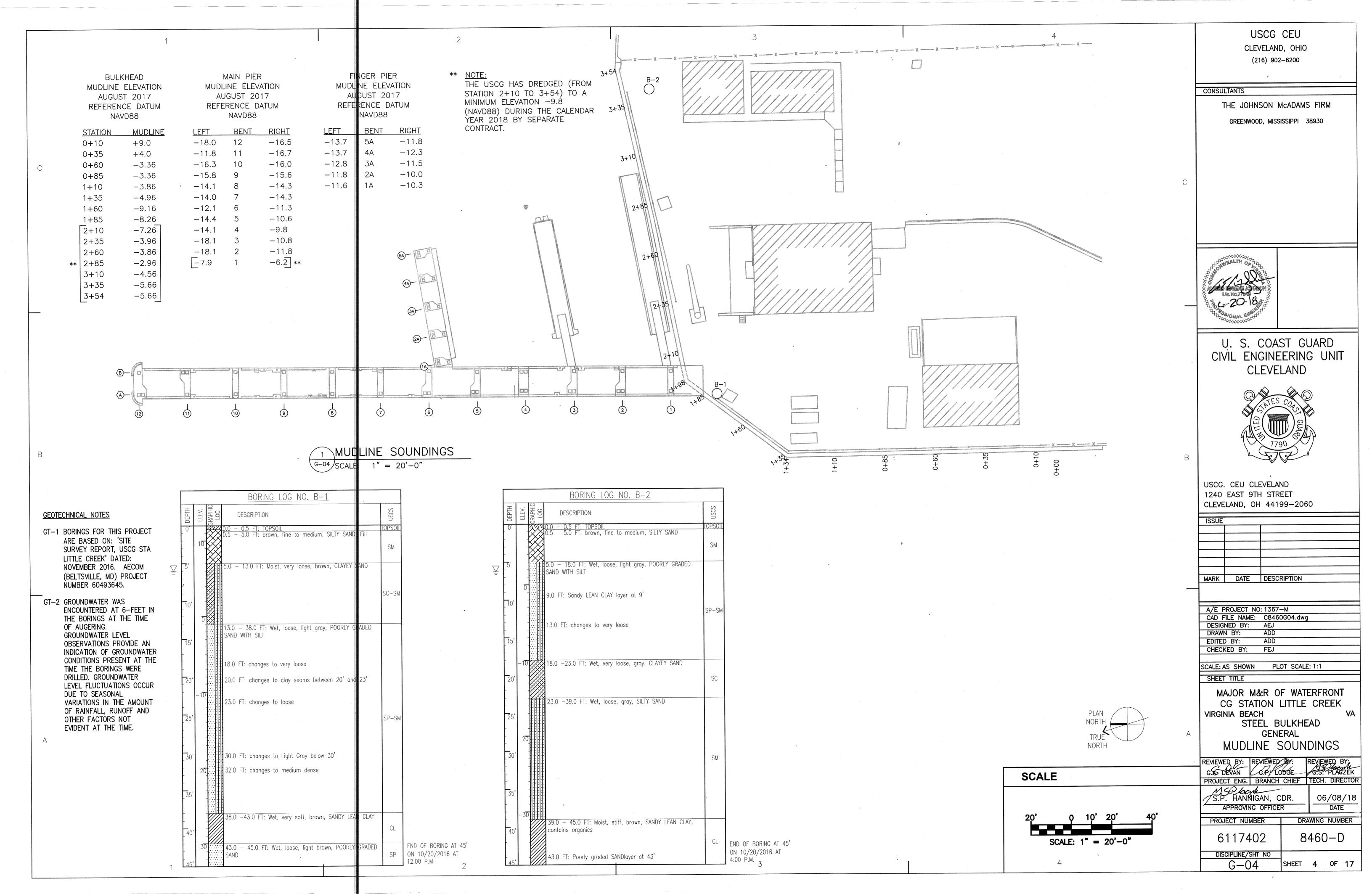
SITE PLAN

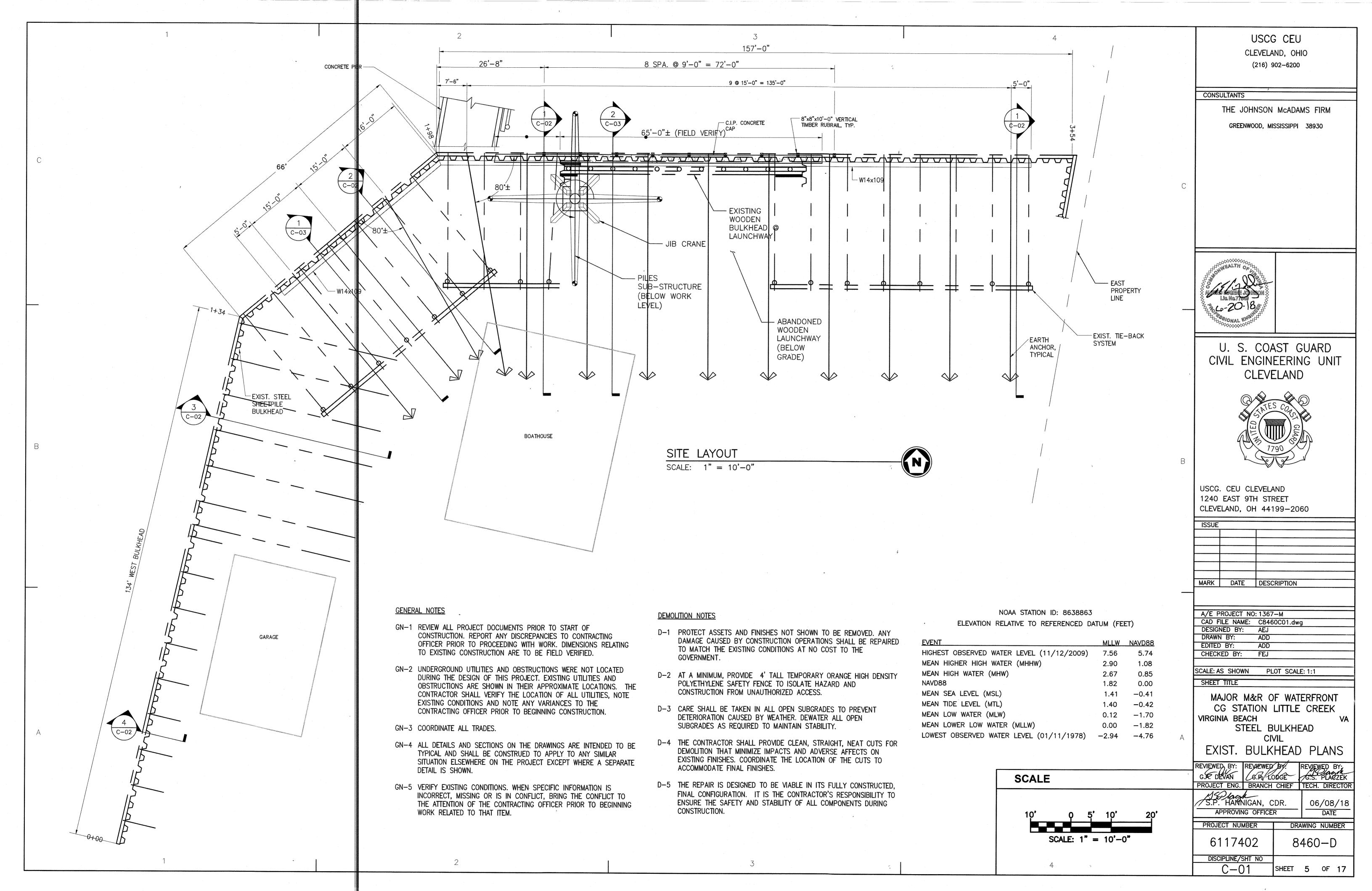
CALE: 1" = 30'-0"

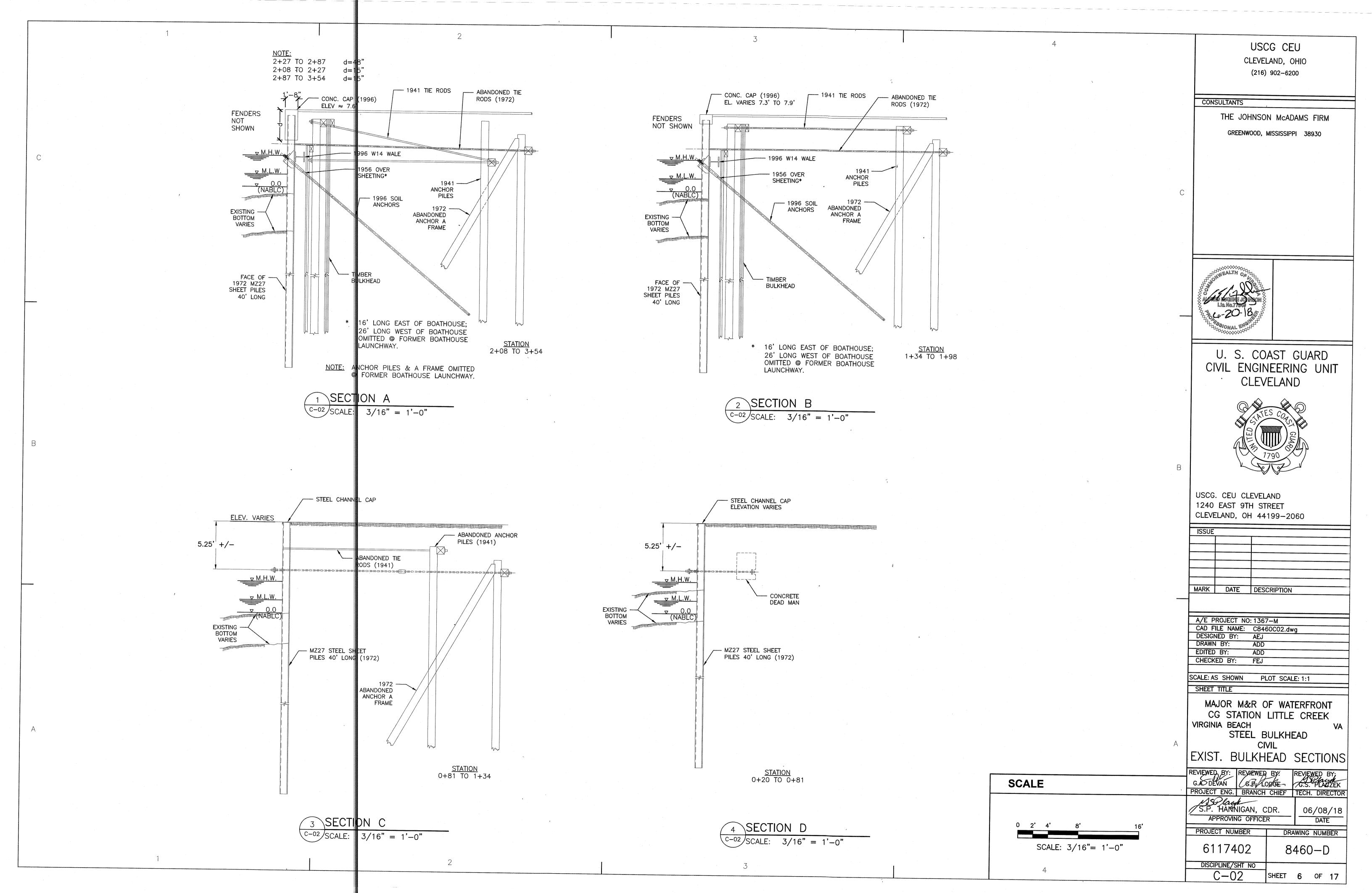
. 7

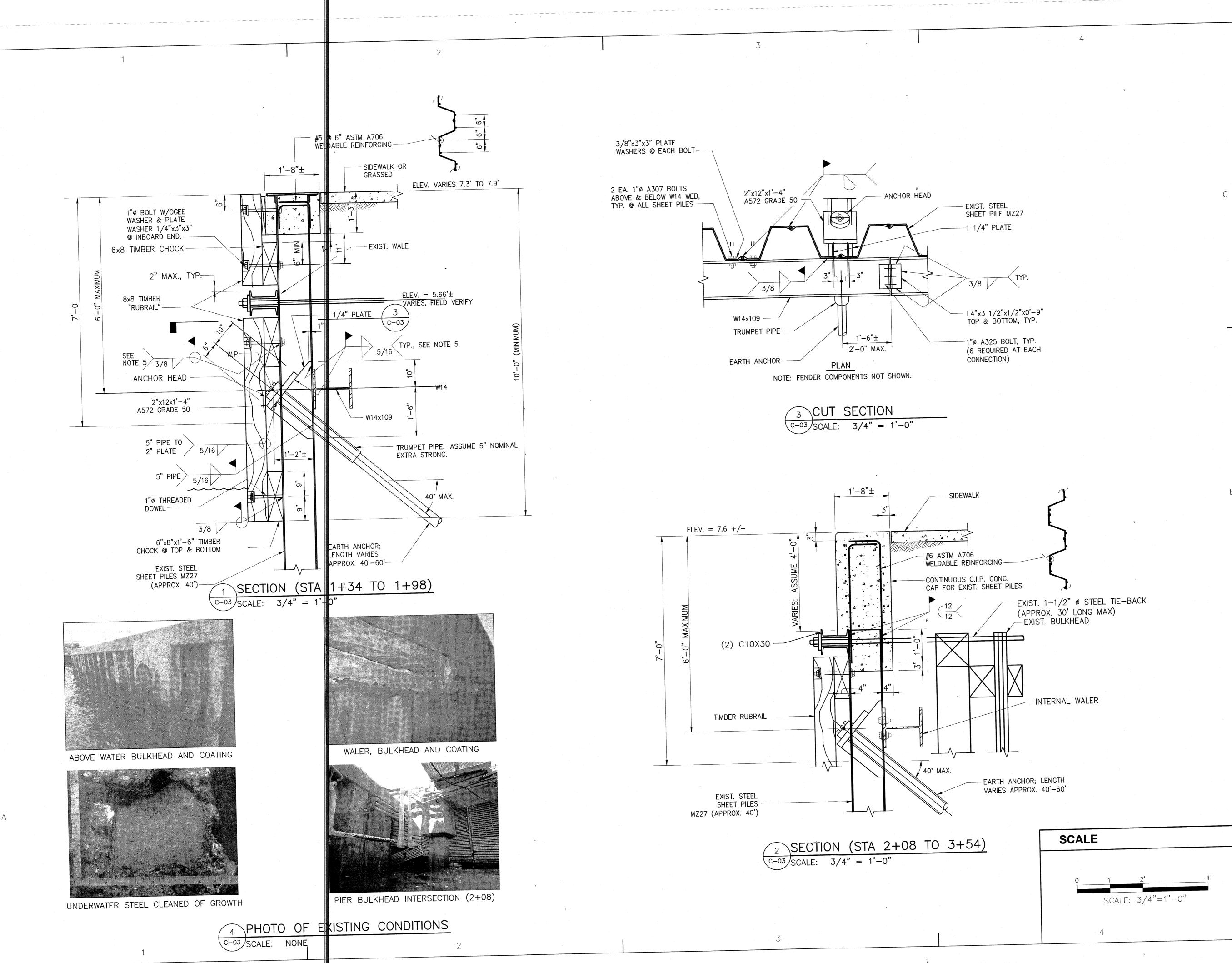










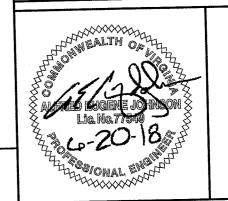


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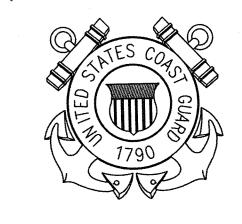
CONSULTANTS

THE JOHNSON McADAMS FIRM

GREENWOOD, MISSISSIPPI 38930



U. S. COAST GUARD CIVIL ENGINEERING UNIT CLEVELAND



USCG. CEU CLEVELAND 1240 EAST 9TH STREET CLEVELAND, OH 44199-2060

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MARK	DATE	DESCRIPTION

A/E PROJECT NO: 1367—M

CAD FILE NAME: C8460C03.dwg

DESIGNED BY: AEJ

DRAWN BY: ADD

EDITED BY: ADD

CHECKED BY: FEJ

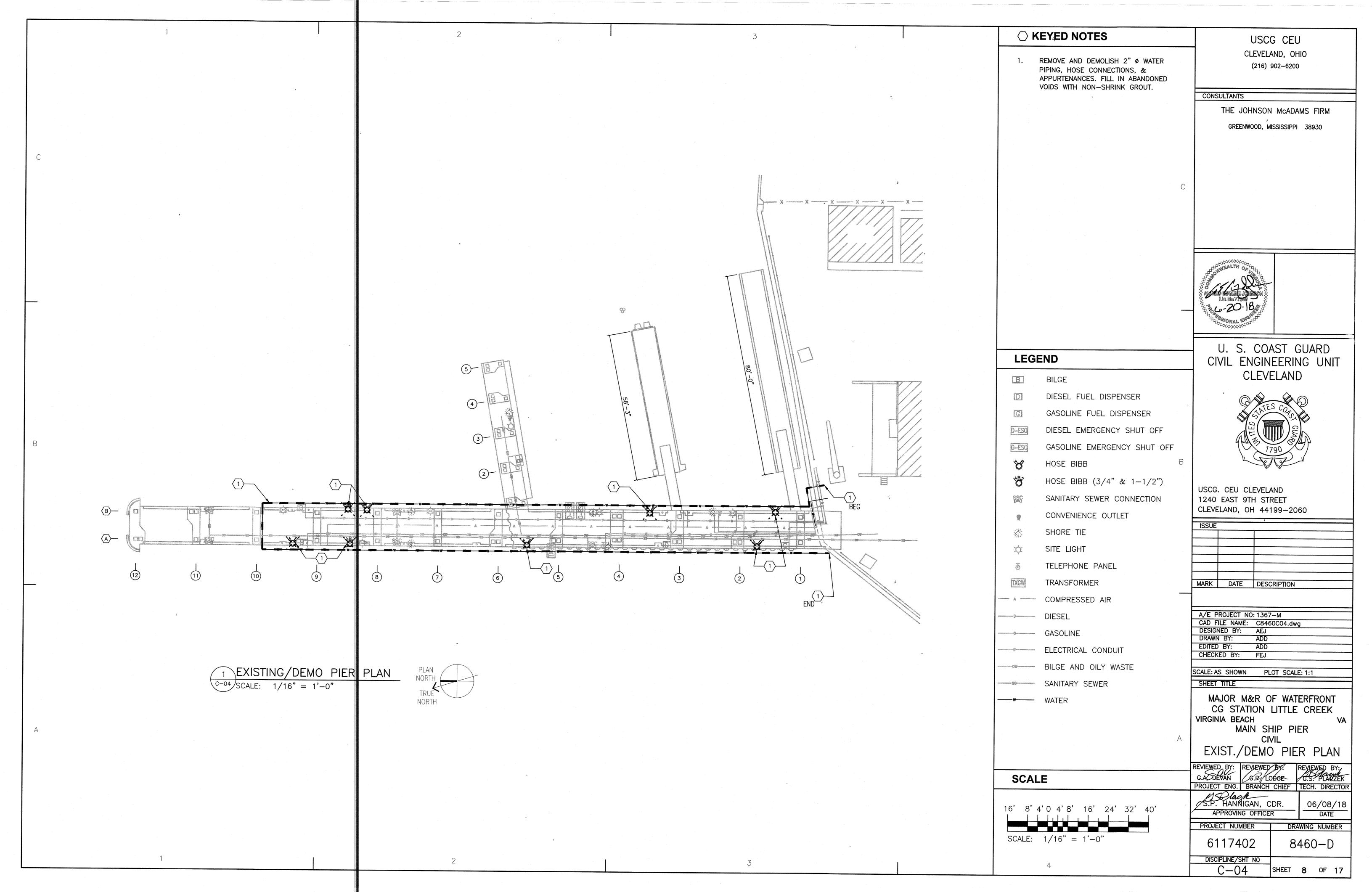
SCALE: AS SHOWN PLOT SCALE: 1:1

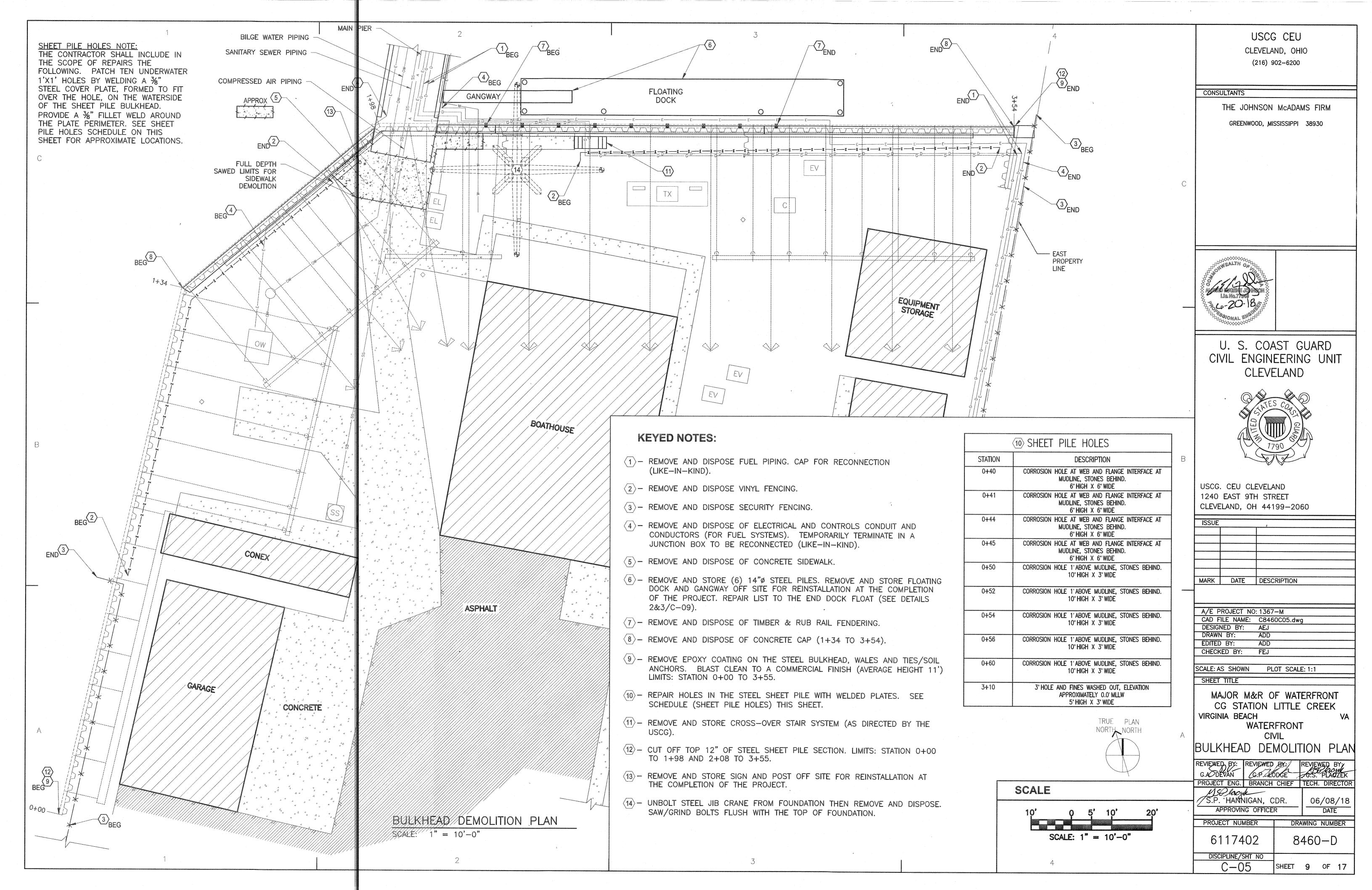
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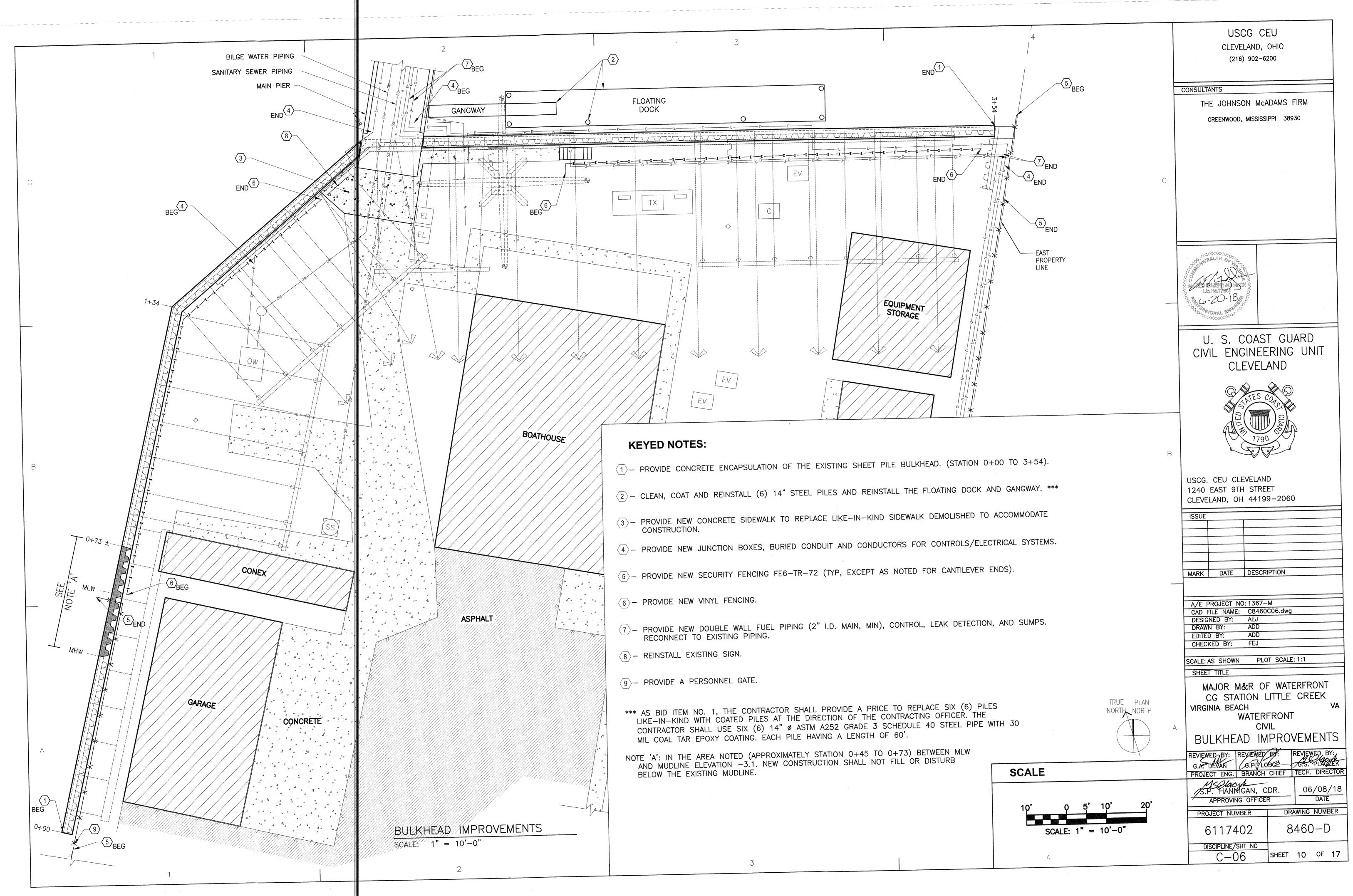
MAJOR M&R OF WATERFRONT
CG STATION LITTLE CREEK
VIRGINIA BEACH
STEEL BULKHEAD

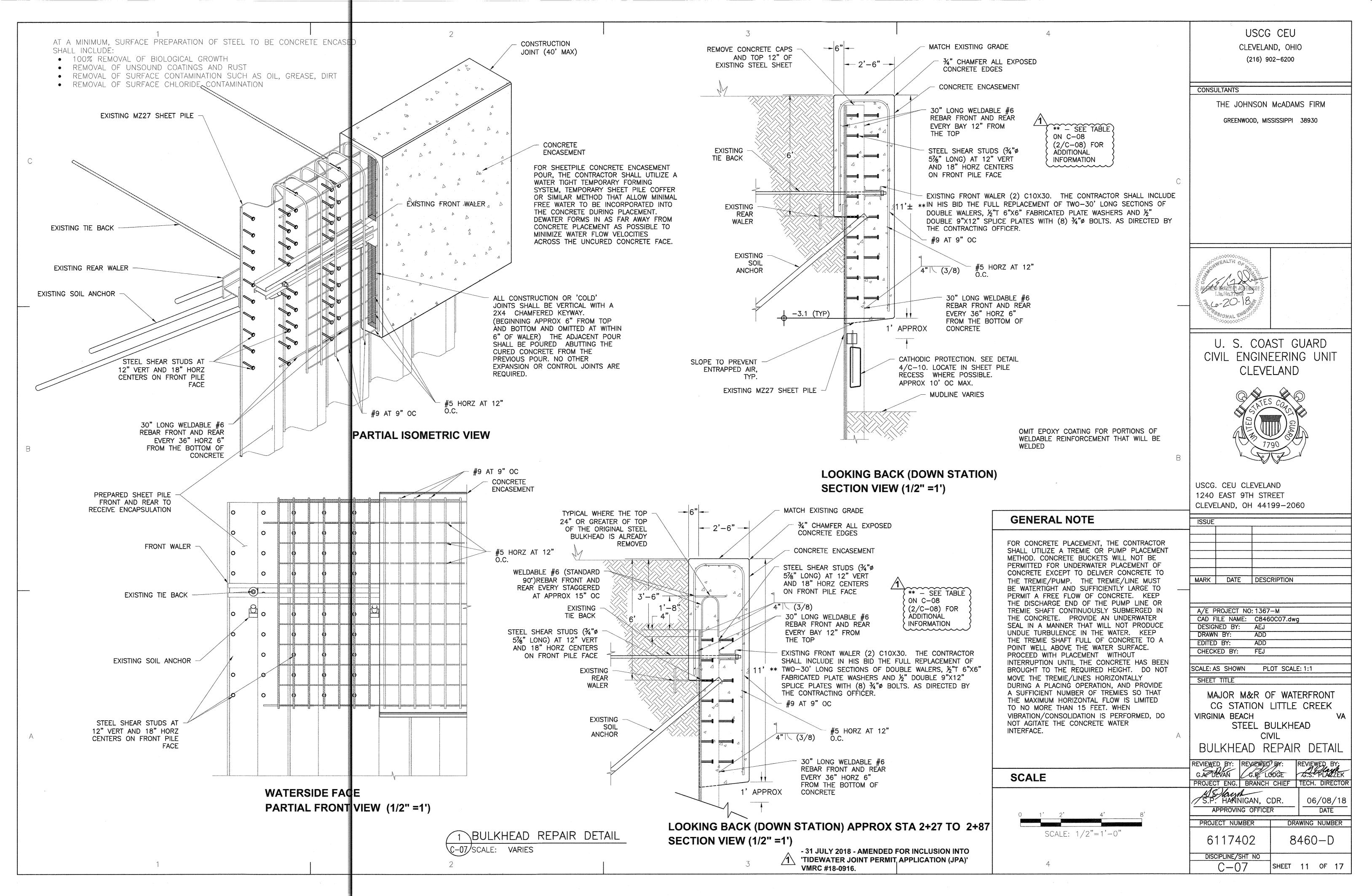
EXIST. BULKHEAD DETAILS

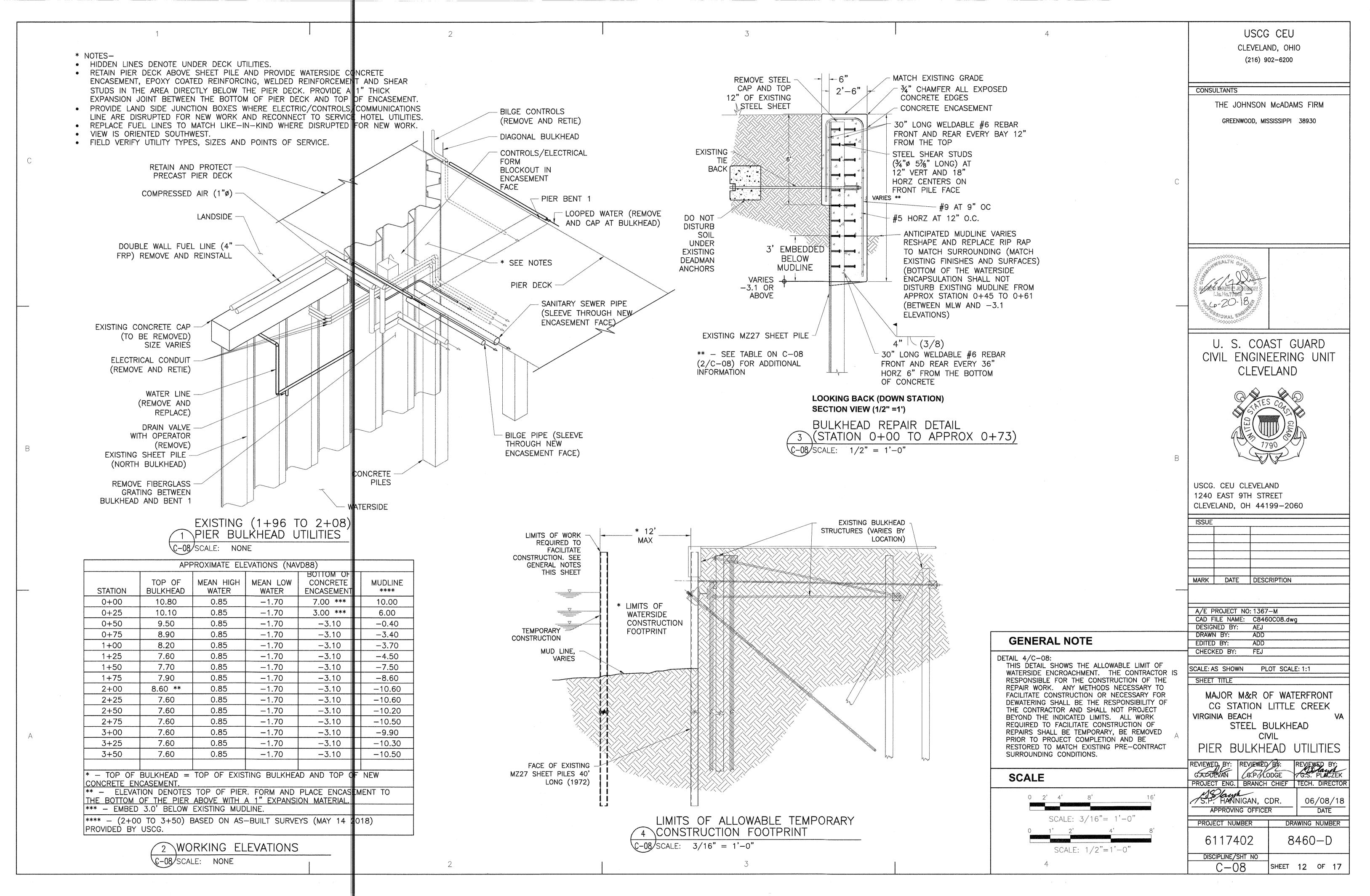
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REVIEWED BY:	REVIEWED	REVIEV	VED) B	X.	
G.ASDEVAN	G.R. VLO		70.0.	PLAC	
PROJECT ENG.	BRANCH	CHIEF	TECH.	DIRE	CTC
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APPROVIN	₹		DATE	<u>. </u>	
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PROJECT NU	MBEK	אט	AWING	HOME	<u> </u>
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DISCIPLINE/	SHT NO				
C-0		SHEET	7	OF	17

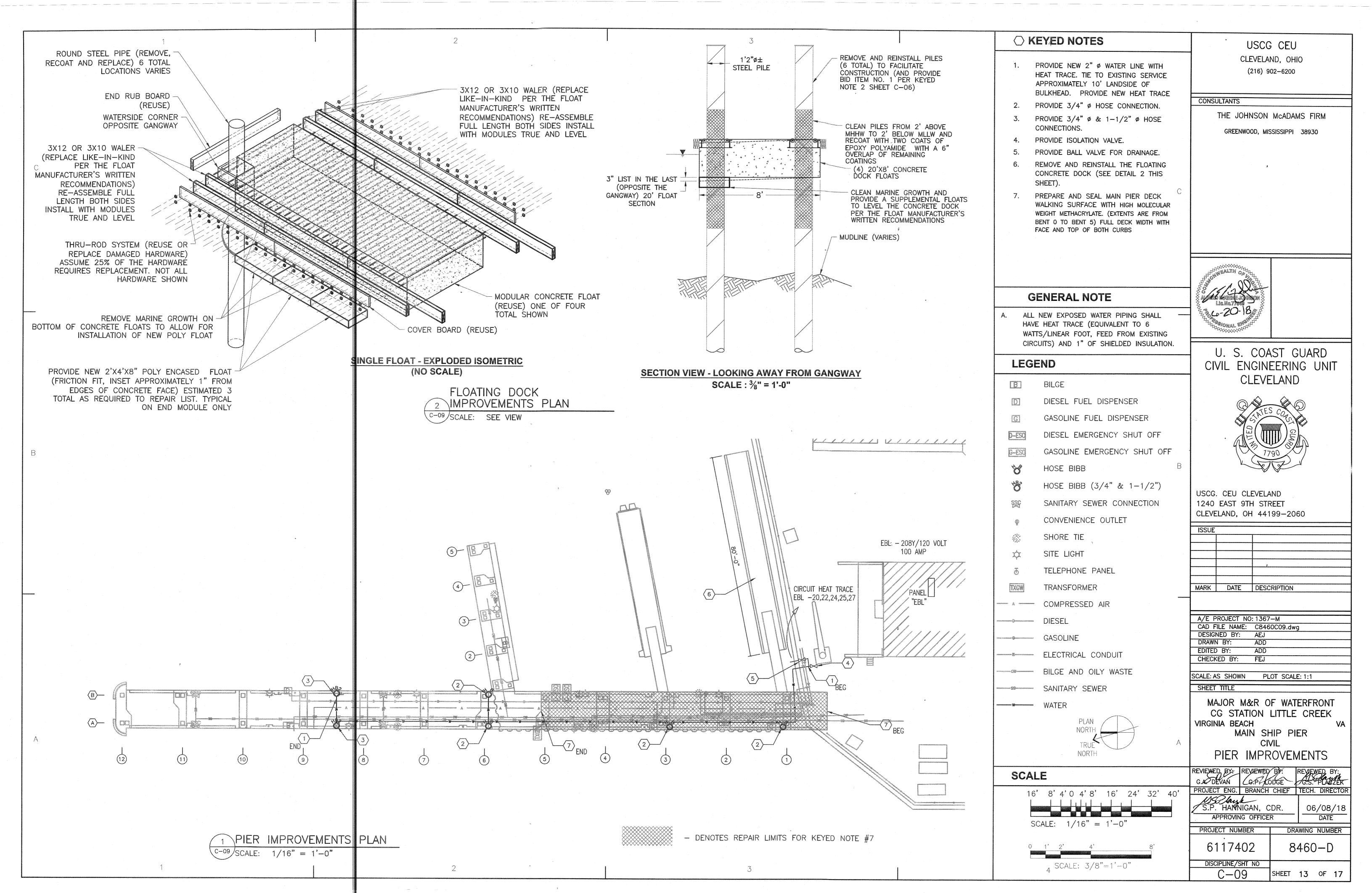


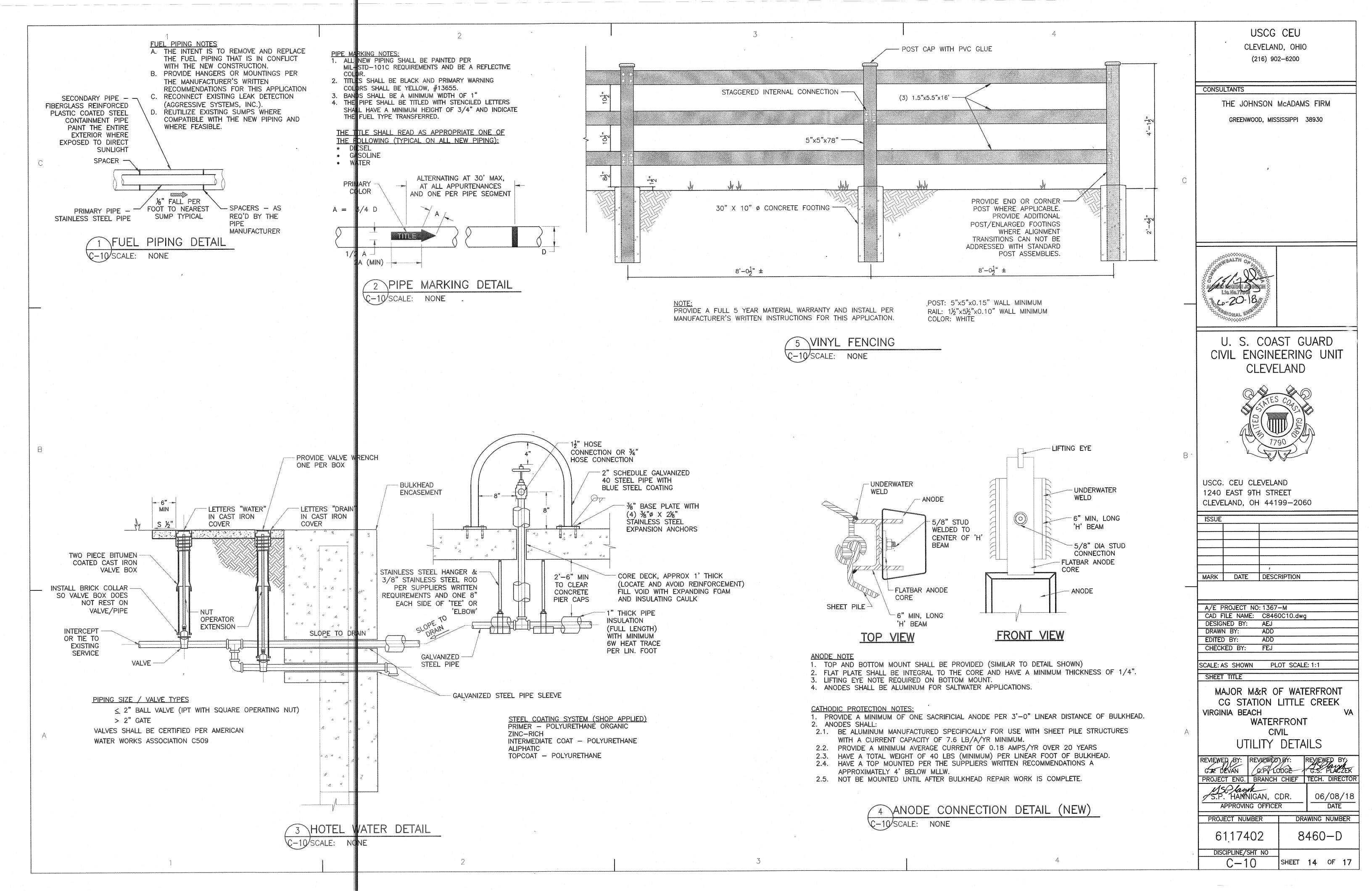


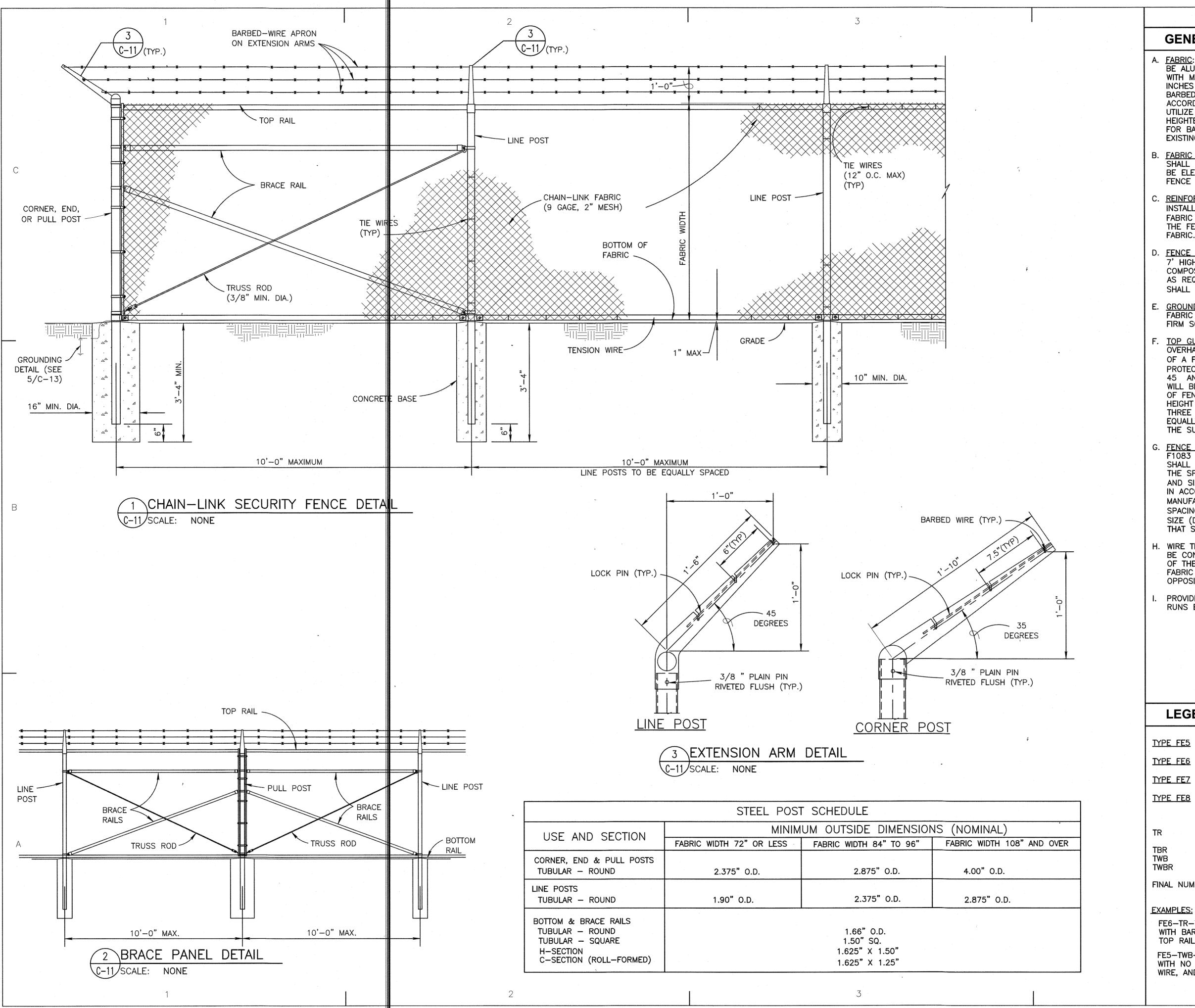












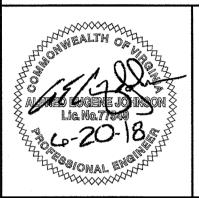
GENERAL NOTES (SECURITY)

- A. <u>FABRIC</u>: THE STANDARD FENCE FABRIC SHALL BE ALUMINUM-COATED STEEL WIRE CHAIN LINK WITH MESH OPENINGS NOT LARGER THAN TWO INCHES PER SIDE AND A TWISTED AND BARBED SELVAGE AT TOP AND BOTTOM IN ACCORDANCE WITH THE SPECIFICATIONS. UTILIZE 6-GAUGE FOR BASE PERIMETER OR HEIGHTENED SECURITY ZONES AND 9-GAUGE FOR BASE INTERIOR OR WHEN JOINING AN EXISTING FENCE WHICH IS ALREADY 9-GAUGE.
- B. FABRIC TIES: ONLY 12-GAUGE STEEL TIES SHALL BE USED. COATING OR PLATING WILL BE ELECTROLYTICALLY COMPATIBLE WITH THE FENCE FABRIC TO INHIBIT CORROSION.
- C. <u>REINFORCEMENT</u>: TENSION WIRES SHALL BE INSTALLED AND INTERWOVEN (OR AFFIXED WITH FABRIC TIES) ALONG THE TOP & BOTTOM OF THE FENCE FOR STABILIZATION OF THE FENCE
- D. FENCE HEIGHT: CHAIN LINK FABRIC SHALL BE 7' HIGH WITH AN ADDITIONAL 1' IN HEIGHT COMPOSED OF 3 STRANDS OF BARBED WIRE AS REQUIRED. THE TOTAL FENCE HEIGHT SHALL BE 8'.
- GROUND CLEARANCE: BOTTOM OF THE FENCE FABRIC SHALL BE WITHIN TWO INCHES OF FIRM SOIL.
- F. TOP GUARDS: A TOP GUARD IS AN OVERHANG OF BARBED WIRED ALONG THE TOP OF A FENCE, FACING OUTWARD (AWAY FROM PROTECTED SITE) AND UPWARD AT APPROX. 45 ANGLE. TOP GUARD SUPPORTING ARMS WILL BE PERMANENTLY AFFIXED TO THE TOP OF FENCE POSTS TO INCREASE THE OVERALL HEIGHT OF THE FENCE AT LEAST 1 FOOT. THREE STRANDS OF 12-GAUGE BARBED WIRE, EQUALLY SPACED, SHALL BE INSTALLED ON THE SUPPORTING ARMS.
- G. FENCE POSTS: SHALL BE ASTM F1043 OR F1083 ROUND PIPE OR SQUARE TUBE AND SHALL BE GALVANIZED IN ACCORDANCE WITH THE SPECIFICATIONS. FENCE POST SPACING AND SIZE (DIAMETER) SHALL BE DETERMINED IN ACCORDANCE WITH CHAIN LINK FENCE MANUFACTURERS' INSTITUTE (WLG 2445). SPACING SHALL NOT EXCEED 10'-0" OC. SIZE (DIAMETER) SHALL NOT BE LESS THAN THAT SPECIFIED.
- H. WIRE TIES, RAILS, POSTS, AND BRACES SHALL BE CONSTRUCTED ON THE SECURE SIDE OF THE FENCE ALIGNMENT. CHAIN-LINK FABRIC SHALL BE PLACED ON THE SIDE OPPOSITE THE SECURE AREA.
- PROVIDE BRACE PANEL WHENEVER STRAIGHT RUNS EXCEED 500 FEET.

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CONSULTANTS

THE JOHNSON McADAMS FIRM GREENWOOD, MISSISSIPPI 38930



U. S. COAST GUARD CIVIL ENGINEERING UNIT CLEVELAND



USCG. CEU CLEVELAND 1240 EAST 9TH STREET CLEVELAND, OH 44199-2060

MARK	DATE	DESCRIPTION

A/E PROJECT NO: 1367-M

DESIGNED BY: AEJ

CHECKED BY: FEJ

DRAWN BY: EDITED BY:

SCALE: AS SHOWN

VIRGINIA BEACH

SHEET TITLE

CAD FILE NAME: C8460C11.dwg

LEGEND

TYPE FE5 - CHAIN-LINK FENCE WITHOUT BARBED-WIRE APRON

TYPE FE6 - CHAIN-LINK FENCE W/BARBED-WIRE

ON SINGLE OUTRIGGER TYPE FE7 - CHAIN-LINK FENCE W/BARBED-WIRE

ON DOUBLE OUTRIGGER

TYPE FEB - CHAIN-LINK FENCE W/BARBED-WIRE AND BARBED-TAPE ON DOUBLE

OUTRIGGER

- FENCE WITH TOP RAIL AND TENSION

WIRE AT BOTTOM - FENCE WITH TOP AND BOTTOM RAILS

- TENSION WIRE TOP AND BOTTOM - FENCE WITH TOP TENSION WIRE AND BOTTOM RAIL

FINAL NUMBER IS FABRIC WIDTH IN INCHES.

FE6-TR-72 - CHAIN-LINK SECURITY FENCE WITH BARBED-WIRE ON SINGLE OUTRIGGER, TOP RAIL, AND 72 INCH FABRIC WIDTH.

FE5-TWB-84 - CHAIN-LINK SECURITY FENCE WITH NO APRON, TOP AND BOTTOM TENSION WIRE, AND 84 INCH FABRIC WIDTH.

S.P. HANNIGAN, CDR. APPROVING OFFICER PROJECT NUMBER

DRAWING NUMBER 6117402 8460-D DISCIPLINE/SHT NO C - 11SHEET 15 OF 17

06/08/18

DATE

PLOT SCALE: 1:1

MAJOR M&R OF WATERFRONT

CG STATION LITTLE CREEK

PERIMETER FENCE

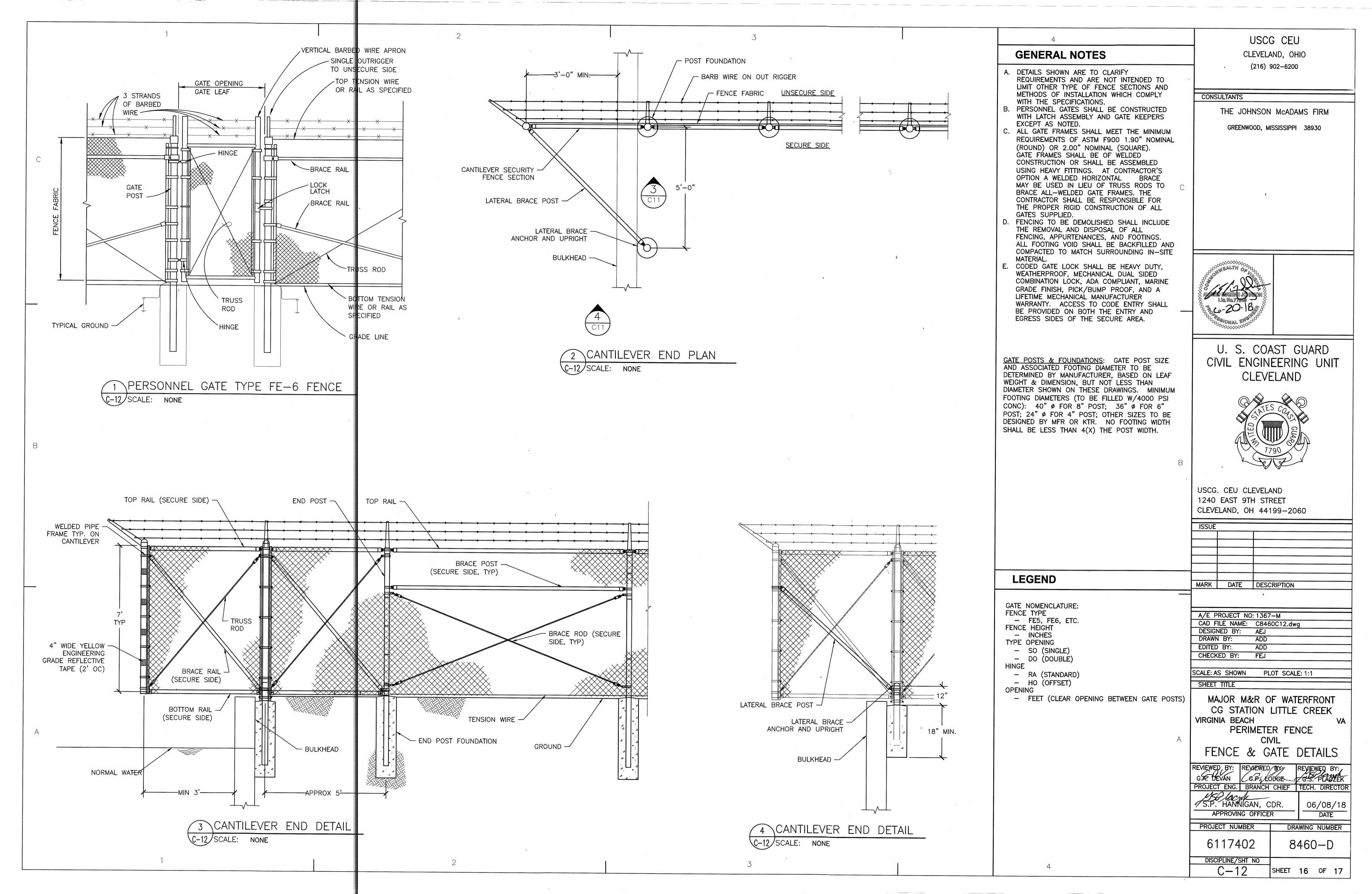
CIVIL

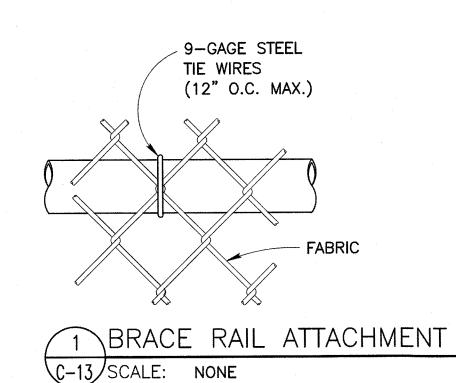
SECURITY FENCE DETAILS

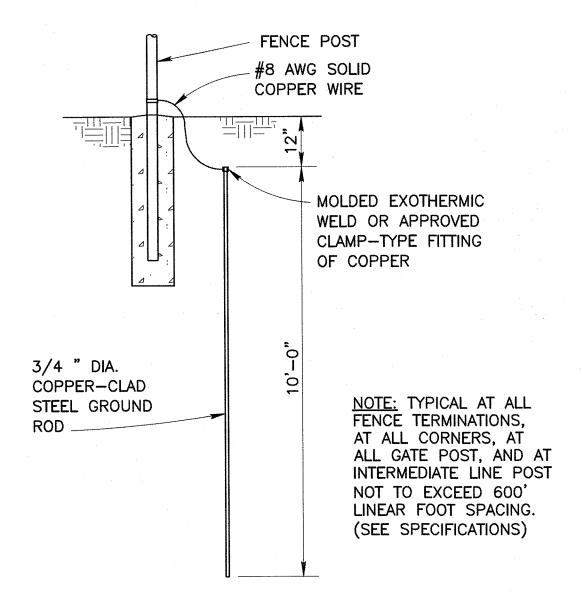
REVIEWED BY: REVIEWED BY:

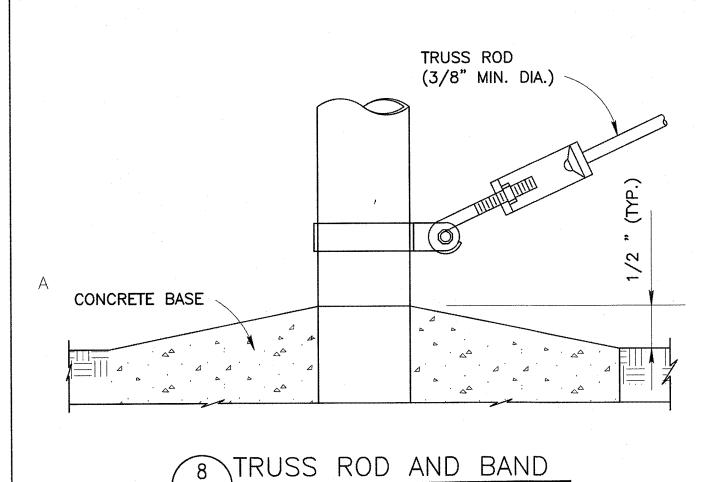
G.A. DEVAN G.P. LODGE G.S. PLACZEK

PROJECT ENG. BRANCH CHIEF TECH. DIRECTOR





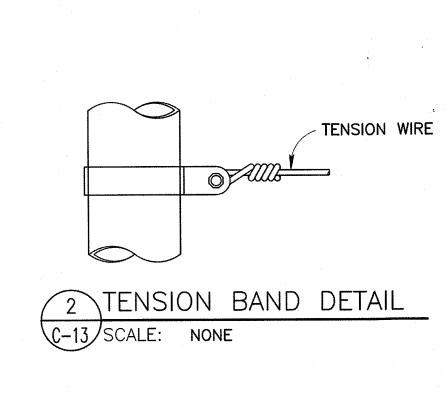




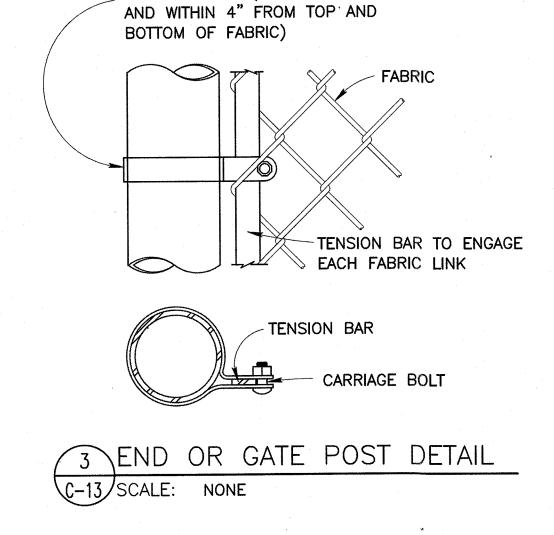
5 GROUNDING DETAIL

C-13 SCALE: NONE

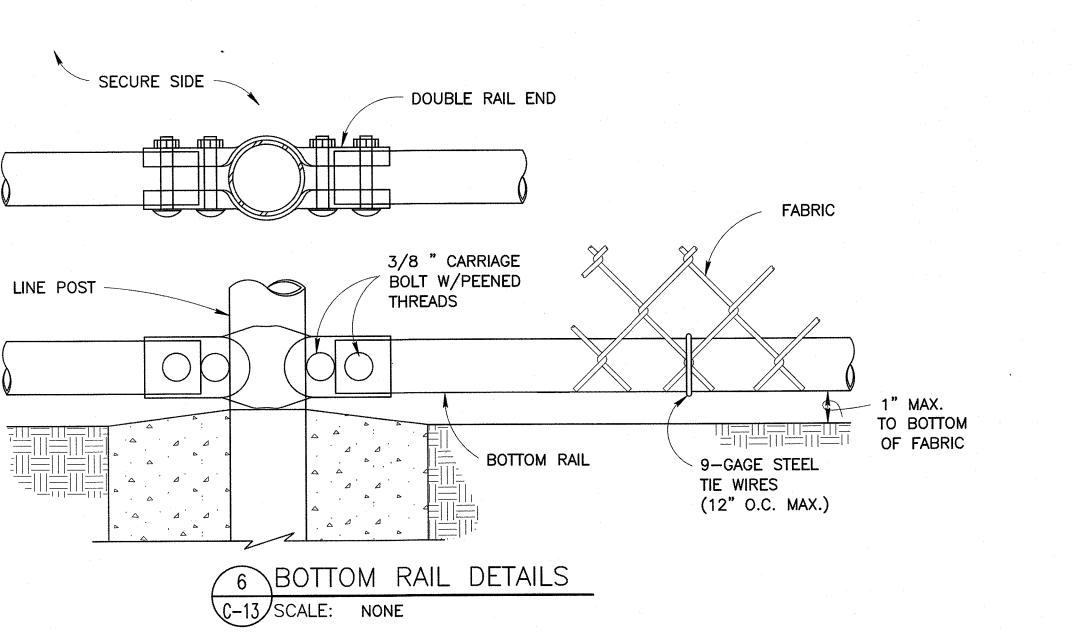
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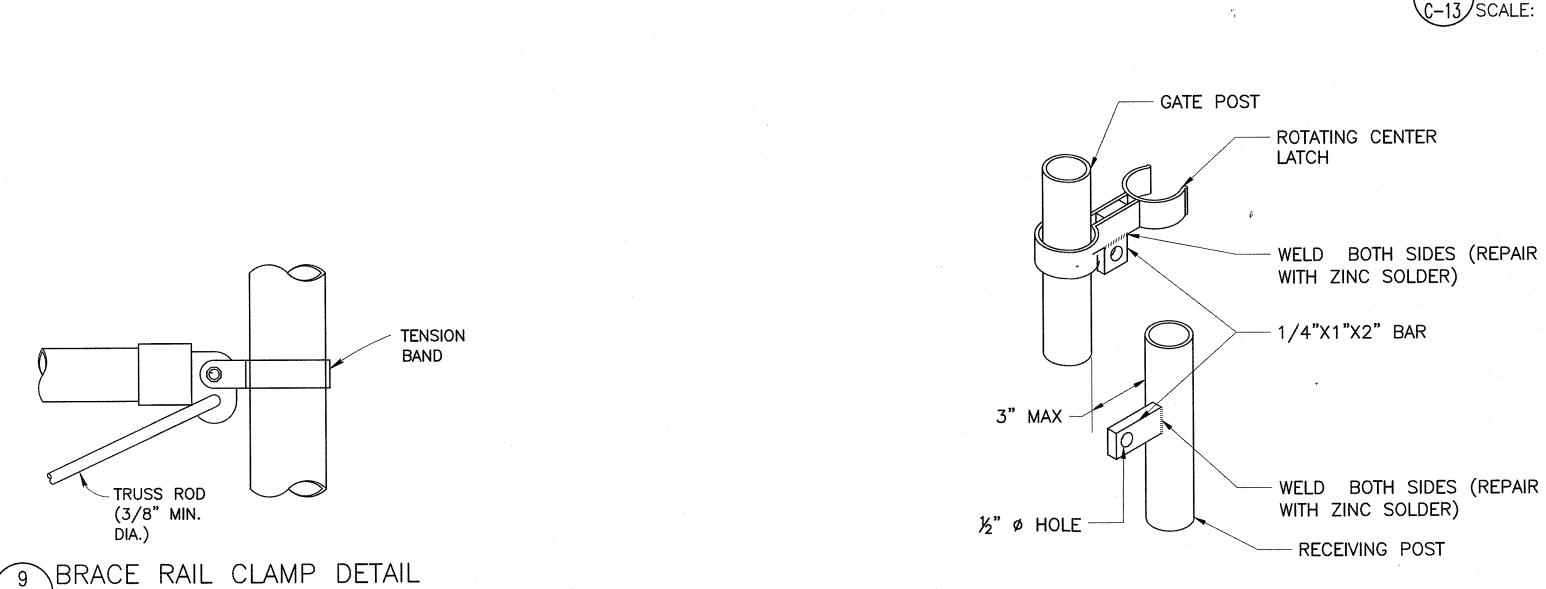


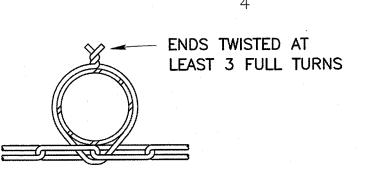
C-13 SCALE: NONE

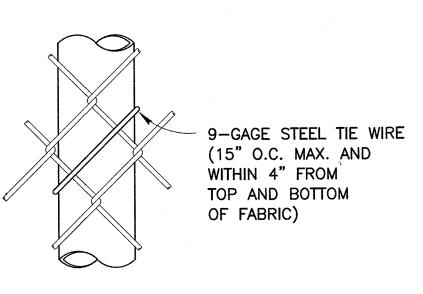


TENSION BAND (15" O.C. MAX.

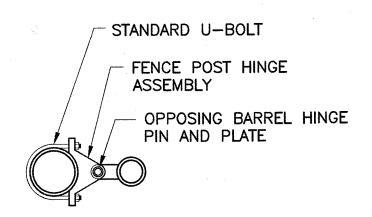




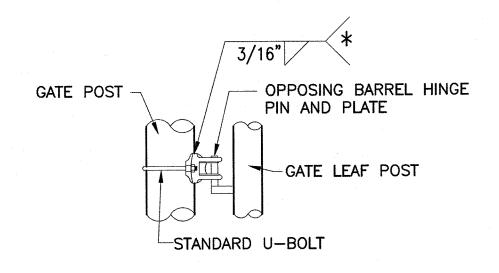




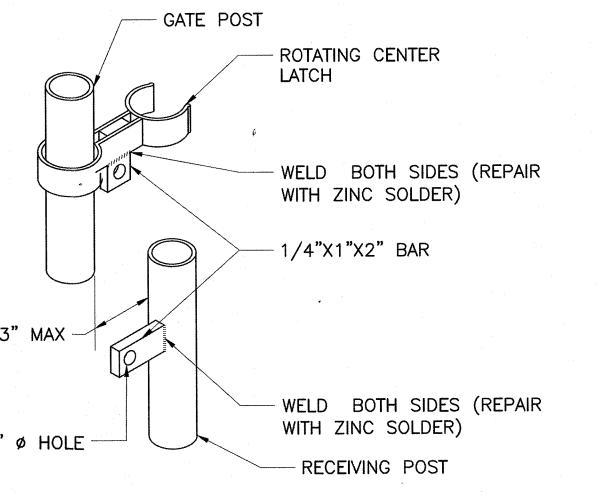
4 LINE POST ATTACHMENTS C-13/SCALE: NONE



(*)NOTE: ENSURE CORRECT HEIGHT FOR FULL OPERATION PRIOR TO WELDING (TYPICAL)



7 STANDARD HINGE C-13 SCALE: NONE

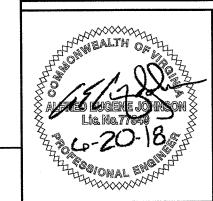


10 GATE LATCH DETAIL C-13 SCALE: NONE

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GREENWOOD, MISSISSIPPI 38930

CONSULTANTS THE JOHNSON McADAMS FIRM



U. S. COAST GUARD CIVIL ENGINEERING UNIT **CLEVELAND**



USCG. CEU CLEVELAND 1240 EAST 9TH STREET CLEVELAND, OH 44199-2060

ISSUE		_
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MARK	DATE	DESCRIPTION

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): 1367-M
C8460C13.dwg
AEJ
ADD
ADD
FEJ

SCALE: AS SHOWN PLOT SCALE: 1:1

SHEET TITLE

MAJOR M&R OF WATERFRONT CG STATION LITTLE CREEK VIRGINIA BEACH PERIMETER FENCE

CIVIL MISC FENCE DETAILS

REVIEWED BY: REVIEWE	D/BY:	REVIEWED BY:		
G.A. DEVAN CG.P. A	ODGE	G.S. PLANZEK		
PROJECT ENG. BRANC	H CHIEF	TECH. DIRECTOR		
S.P. HANNIGAN, APPROVING OFFICE		06/08/18 DATE		
PROJECT NUMBER	DR	DRAWING NUMBER		
6117402	8	8460-D		
DISCIPLINE/SHT NO				

SHEET 17 OF 17

C-13