Project Name McDuffie Dual Barge Shifter and Barge Haul System Marine Construction

Project No. 10873 Task No. 03 Addendum No. 1

To: Prospective Bidders Date: 11/29/23

The following items are clarifications to questions received. These items are hereby included in the bid documents by this addendum.

Item	Description
1.	The Pre-Bid sign in sheet is attached and is hereby incorporated into the bid documents by this addendum.
2.	Attached is the revised Division I schedule of prices hereby incorporated into the bid documents by this addendum.
3.	Revised drawings attached and hereby incorporated into the bid documents by this addendum: 4224M-C4, 4224M-C5, 4224M-C7, 4224M-S1, 4224M-S2, 4224M-S3, 4224M-S4, 4224M-S9, 4224M-S15, and 4224M-S17
4.	Question: Will you please send out REW drawing 8090 shown on REW 8001 with the addendum?
	Answer: Requested drawing is included and hereby incorporated into the bid documents by this addendum.
5.	Question: If demo piles cannot be removed full length, is it acceptable to cut them at the mud line?
	Answer: Yes
6.	Question: Please confirm the coating requirement for the steel piles and the coating length that is required.
	Answer: 40 mils of polyurea or 20 mils coal tar epoxy, 50' of coating.
7.	Question: On drawing S-9 for the 60" pipe piles, there is a note for donut fenders. Please confirm if donut fenders are required for the 60" piles.
	Answer: No donut fenders on 60"Ø piles.
8.	Question: The quantity of type III fenders shown for BU1 does not match on the schedule of prices versus the drawings. The schedule of prices shows 6 each and there are 19 each on the drawing. Please confirm the correct quantity.
	Answer: See revised Schedule of Prices and revised drawings.
9.	Question: The quantity of type IV fenders shown for BU1 does not match on the schedule of prices versus the drawings. The schedule of prices shows 12 each and there are 6 each on the drawing.



Alabama State Port Authority Addendum to R&P or Specification Booklet

	Please confirm the correct quantity.
	riease commit the correct quantity.
	Answer: See revised Schedule of Prices and revised drawings.
10.	Question: There are new wide flange beams shown for supporting the new BU1 and BU3 fenders. Please provide the member sizes and connection details.
	Answer: The fender support structure design shall be provided by the fender manufacturer. The steel support frames shall be attached to the concrete dock, 3' thick. The support structure shall be designed to support the fender panels, fender elements, the self weight of the steel frames and the loads delivered into the frames by the barges.
11.	Question: Spec.2.1: To which fender type is the performance referring to?
	Answer: Fenders on each side of slip along concrete dock.
12.	Question: Spec. 2.2.: Are these limits in reference to the stand-off on the drawing?
12	Answer: Yes
13.	Question: Spec. 3.6 and following, which fender type is referenced here?
	Answer: Arch Fender elements
14.	Question: Please provide spec section 13020 for the donut fenders –
	Answer: Donut fenders shall be "Ocean Guard Monopile Donut Fenders" super high capacity or
15.	approved equal. Sizes: 6' diameter x 8' long and 7' diameter x 8' long. Question: Drawing S2: Please provide specifics on the fender system, what is the size of the panel,
13.	what is the material of the panel, what are the design loads, is there low friction material on the panels etc.
	Answer: Fender system shall be designed with panels similar in size to the panels shown on the Addendum 1 drawings.
16.	Question: Drawing S8: Please provide OD of the donut fender, as well as the performance requirements.
	Answer: Donut fenders shall be "Ocean Guard Monopile Donut Fenders" super high capacity or approved equal. Sizes: 6' diameter x 8' long and 7' diameter x 8' long.
17.	Question: Drawing S15: What is the required length of the arch-fenders?
	Answer: As designed by manufacturer for specified loading.
18.	Approved Fender Manufacturers:
	Trelleborg



Alabama State Port Authority Addendum to R&P or Specification Booklet

The Rubber Company

Pacific Marine & Industrial

Shibata Fender Team

ESC Marine Systems

Prosertek

Marinus Engineering

Or Approved Equal

19. The bid opening date has been postponed. Delete all previous references to the bid opening and replace with the following:

Sealed bid proposals will be received via courier to the Alabama State Port Authority (ASPA), 1400 Alabama State Docks Blvd, Room 216, Administration Building, Mobile, AL 36602 by 1:00pm on December 12th, 2023. Sealed bid proposals can also be hand delivered from 1:45pm to 2:00pm on Tuesday, December 12th, 2023 to the Alabama State Port Authority in the International Trade Center building, 250 North Water Street, 1st floor – Killian Room, Mobile, AL. The official bid opening will be conducted in the Killian Room at 2:00 P.M. on Tuesday, December 12th, 2023. Faxed or electronically submitted bids will not be accepted. ATTENDANCE TO THE BID OPENING IS NOT MANDATORY. Sealed bids shall have the bidder's name, contractor's license number, project name, and time and date of bid opening shown on the outside. Additions and deducts will not be allowed on the outside of the bid.

Please indicate your receipt of this addendum by adding the addendum number in the appropriate place in your Requisition & Proposal or Specification Book.

Date: Nov. 14, 10:30 am		Email	082 Chris. Uner Og awestican		096	716 Chensley @ shoomst, com	N	123 SHEINE @ CONTENENTAL CONST. COM								
Project 10873- Task 3 McDuffie Unloaders 1 and 3	ruction/Equipment Installation	Company Name Phone	27 HWest 251-751-0082	3 4 West 251-421-5430	I. B	Ction	54.	CONST.	1							
Project 10873- Ta	Marine Construction/Equil	Name	Chris I kner	Keistin Jan	1000cm		Date Forther		15. C.							



Project Name McDuffie Unloaders 1 and 3 Dual Barge Shifter Systems Marine

Construction/Equipment Installation

Location Mobile, AL

Project # 10873 Task # 3 October 2023

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SCHEDULE OF PRICES (REVISED 11/29/2023)

	Description	Unit	Quantity	Unit Price	Total
1	Demolition BU3				
1.1	Remove Existing Sheet Pile Cell (Crew, Equipment, OH & Profit - Work Days)	D	15	\$	\$
1.2	Remove Existing North (4) Pile Sheave Dolphin	LS	1	\$	\$
1.3	Remove All Fendering Within the Unloading Slip	LS	1	\$	\$
1.4	Remove Existing Winches	LS	1	\$	\$
1.5	Remove Existing Camel Barge Haul System; Camels, Cables, Sheaves, Fairleads, Etc.	LS	1	\$	\$
1.6	Remove Existing Cable Reel	LS	1	\$	\$
1.7	Remove All Existing Miscellaneous Structures/Equipment/Appurtenances Required for the Performance of the Work	LS	1	\$	\$
				Subtotal	\$
2	Marine Structures BU3				
2.1	Furnish and Install New Five (5) Pile Breasting/Sheave Support Structures	EA	2	\$	\$
2.2	Furnish and Install New Single Pile Dolphins 30" Type "B"	EA	6	\$	\$



Project Name McDuffie Unloaders 1 and 3 Dual Barge Shifter Systems Marine

Construction/Equipment Installation

Location Mobile, AL

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2.3	Furnish and Install New Single Pile Dolphins 36" Type "A"	EA	2	\$	\$
2.4	Furnish and Install New Fender Structure, Elements, and Panels Type I	EA	6	\$	\$
2.5	Furnish and Install New Fender Structure, Elements, and Panels Type II	EA	6	\$	\$
				Subtotal	\$
3	Mechanical BU3				
3.1	Receive, Handle, Store, and Install New REW Furnished Dual Barge Shifter Barge	LS	1	\$	\$
3.2	Receive, Handle, Store, and Install New REW Furnished Barge Haul Winches	EA	2	\$	\$
3.3	Receive, Handle, Store, and Install New REW Furnished Wire Ropes and Wire Rope Fittings		1	\$	\$
3.4	Receive, Handle, Store, and Install New REW Furnished Snatch Block w/swivel	EA	2	\$	\$
3.5	Receive, Handle, Store, and Install New REW Furnished Four Roller Fairlead	EA	6	\$	\$
3.6	6 Receive, Handle, Store, and Install New REW Furnished Cable Reel and Cable Guide		1	\$	\$
3.7	Receive, Handle, Store, and Install New REW Furnished Cable Reel Cable	LS	1	\$	\$
3.8	Receive, Handle, Store, and Install New REW Furnished Miscellaneous Parts and Appurtenances	LS	1	\$	\$



Project Name McDuffie Unloaders 1 and 3 Dual Barge Shifter Systems Marine

Construction/Equipment Installation

Location Mobile, AL

Project # 10873 Task # 3

October 2023

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				Subtotal	\$
4	Demolition BU1				
4.1	Remove Existing (4) Pile Sheave Dolphin	EA	2	\$	\$
4.2	Remove All Fendering Within the Unloading Slip	LS	1	\$	\$
4.3	Remove Existing Winches	LS	1	\$	\$
4.4	Remove Existing Camel Barge Haul System; Camels, Cables, Sheaves, Fairleads, Etc.	LS	1	\$	\$
4.5	Remove Existing Cable Reel	LS	1	\$	\$
4.6	Remove All Existing Miscellaneous Structures/Equipment/Appurtenances Required for the Performance of the Work	LS	1	\$	\$
			l	Subtotal	\$
5	Marine Structures BU1				
5.1	Furnish and Install New Five (5) Pile Breastings/Sheave Support Structures	EA	2	\$	\$
5.2	Furnish and Install New Single Pile Dolphins 30" Diameter Type "B"	EA	5	\$	\$
5.3	Furnish and Install New Single Pile Dolphins 36" Diameter Type "A"	EA	4	\$	\$
5.4	Furnish and Install New Fender Structures, Elements, and Panels Type III	EA	17	\$	\$
5.5	Furnish and Install New Fender Structures, Elements, and Panels Type IV	EA	6	\$	\$



Project Name McDuffie Unloaders 1 and 3 Dual Barge Shifter Systems Marine

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5.6	Furnish and Install New Single Pile Dolphins 36" Diameter Type "A"	EA	2	\$	\$
5.7	Furnish and Install New Single Pile Dolphins 60" Diameter Type "C"	EA	2	\$	\$
				Subtotal	\$
6	Mechanical BU1				
6.1	Receive, Handle, Store, and Install New REW Furnished Dual Barge Shifter Barge	LS	1	\$	\$
6.2	Receive, Handle, Store, and Install New REW Furnished Barge Haul Winches	EA	2	\$	\$
6.3	Receive, Handle, Store, and Install New REW Furnished Wire Ropes and Wire Rope Fittings	LS	1	\$	\$
6.4	Receive, Handle, Store, and Install New REW Furnished Snatch Block w/swivel	EA	2	\$	\$
6.5	Receive, Handle, Store, and Install New REW Furnished Four Roller Fairlead	EA	6	\$	\$
6.6	Receive, Handle, Store, and Install New REW Furnished Cable Reel and Cable Guide	LS	1	\$	\$
6.7	Receive, Handle, Store, and Install New REW Furnished Cable Reel Cable	LS	1	\$	\$
6.8	Receive, Handle, Store, and Install New REW Furnished Miscellaneous Parts and Appurtenances	LS	1	\$	\$
	•	1		Subtotal	\$



Project Name McDuffie Unloaders 1 and 3 Dual Barge Shifter Systems Marine

Construction/Equipment Installation

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7	General Conditions								
7.1	Mobilization/Demobilization	LS	1	\$	\$				
7.2	Insurance	LS	1	\$	\$				
7.3	7.3 Performance and Labor & Material Bonds LS 1 \$								
	Subtotal								
	Base Project Total								

- (1) The general requirements cost shall be absorbed into the listed line items with the schedule of prices, including insurances, overhead profit and all other miscellaneous fabrication activities involved with the specific equipment system supply phase including the drawings, installation manuals and construction related activities.
- (2) Miscellaneous (Item 3.8 and 6.8) should include any other items not specifically detailed in the schedule of prices but included in the complete construction and installation of the dual barge shifter systems in accordance with the specifications.
- (3) All construction work and equipment installation shall be warrantied for (2) years.

I, the undersigned bidder, hereby acknowledge receipt of the following addenda:

Contractor's Signature:	
Contractor Company	
Name	 Date

ADDENDA NOs. _____ thru _____



Project Name McDuffie Unloaders 1 and 3 Dual Barge Shifter Systems Marine

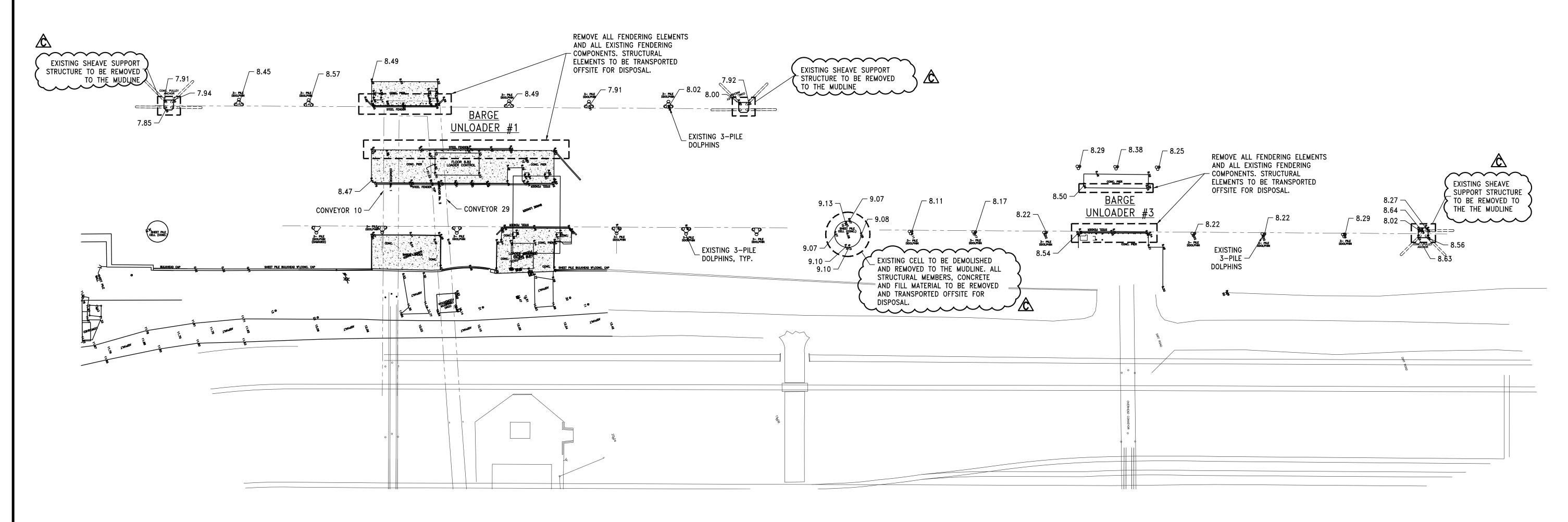
Construction/Equipment Installation

Location Mobile, AL

Project # 10873 Task # 3 October 2023 I-14 | Page

Bid Additive – Barge Fleet Mooring Pile Replacement

	Description	Units	Quantity	Unit Price	Total
Α	Removal and Disposal of one (1) damaged	LS	1	\$	\$
	mooring pipe pile (Location 5 on Dwg.				
	MPR-1)				
В	Furnish and Install two (2) 42" diameter	EA	2	\$	\$
	mooring pipe piles per details on Dwg.				
	MPR-1 (Locations 1 & 5 on Dwg. MPR-1)				



DUAL BARGE SHIFTER - DEMOLITION PLAN

SEQUENCE NOTES:

ALL WORK SHALL BE PERFORMED ON BARGE UNLOADER #3 (BU3) IN PHASE I OF THE WORK. DEMOLITION WORK ASSOCIATED WITH BARGE UNLOADER #1 (BU1) SHALL NOT BEGIN UNTIL BU3 HAS BEEN COMPLETED, COMMISSIONED AND FULLY OPERATIONAL.

DEMOLITION PLAN

- ONE SHEET PILE CELL
- THREE CONCRETE CAP/SHEET PILE SHEAVE SUPPORT DOLPHINS
- STEEL PIPE FENDER SYSTEM WITHIN THE
- UNLOADER SLIP

 REMOVAL OF EXISTING CAMEL HAUL
- SYSTEMS, WINCHES, SHEAVES, CABLES
 POWER SUPPLIES, ETC.

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				Cowles, Murphy, Glover & ASSOCIATES A Full Service Engineering Firm	457 St. Michael St., Mobile, AL 36602	DUAL BARGE SHIFTER AND BARGE HAUL MARINE CONSTRUCTION	IIILE		L BARGE SH MOLITION PL	
	ADDENDUM 1	11/28/23 WBS	GDEC	A Full Service Engineering Firm	11880 Cranston Dr. Ste 102, Arlington, TN 38002		SCALE AS NOTED	DRAWN BY JWM	DATE 01/22/23	SHEET 22x34 REV.
	SSUED FOR BID	11/03/23 RCC	GDEC		T (001) 200 5444	McDUFFIE COAL TERMINAL	IOP NO	OHECKED BA	01/22/23	OF
A IS	SSUED FOR REVIEW DESCRIPTION	10/11/23 JWM DATE BY	CHK, D	PERFORMANCE • RELIABILITY • EXPERIENCE	Tennessee (901) 290-5444	MOBILE, ALABAMA	4224M	GDEC	3/17/23	DRAWING NUMBER 4224M-C



NEW BARGE HAUL CABLE WITH NEW

WINCH INCLUDING ALL COMPONENTS

REQUIRED TO CONNECT TO NEW DUAL -

BARGE SHIFTER, SUPPLIED BY REW,

95'-0"±

INSTALLED BY CONTRACTOR.

NEW BARGE BREASTING

FURNISH AND INSTALL

NEW DUAL BARGE SHIFTER

WITH HYDRAULIC WINCH

SYSTEM. SUPPLIED BY

REW, INSTALLED BY

CONTRACTOR.

SHEAVE SUPPORT STRUCTURE, -

NEW FENDER PANELS

FURNISH AND INSTALL.

NEW SINGLE PILE -DOLPHIN, TYPE B

NEW SINGLE PILE _

NEW FENDER PANELS

FURNISH AND INSTALL.

APPROXIMATELY 180'-0" LONG,

DOLPHIN, TYPE A

NEW CABLE REEL, SUPPLIED BY

REW, INSTALLED BY CONTRACTOR.

APPROXIMATELY 65'-0" LONG, -

NEW BARGE HAUL WINCH

 $_{ extsf{ iny SYSTEM}}$, SUPPLIED BY REW,

\100**'**-0"

CONVEYOR 10

<u>UNLOADER</u>

INSTALLED BY CONTRACTOR.

_ NEW SINGLE PILE

- CONVEYOR 29

DOLPHIN, TYPE A

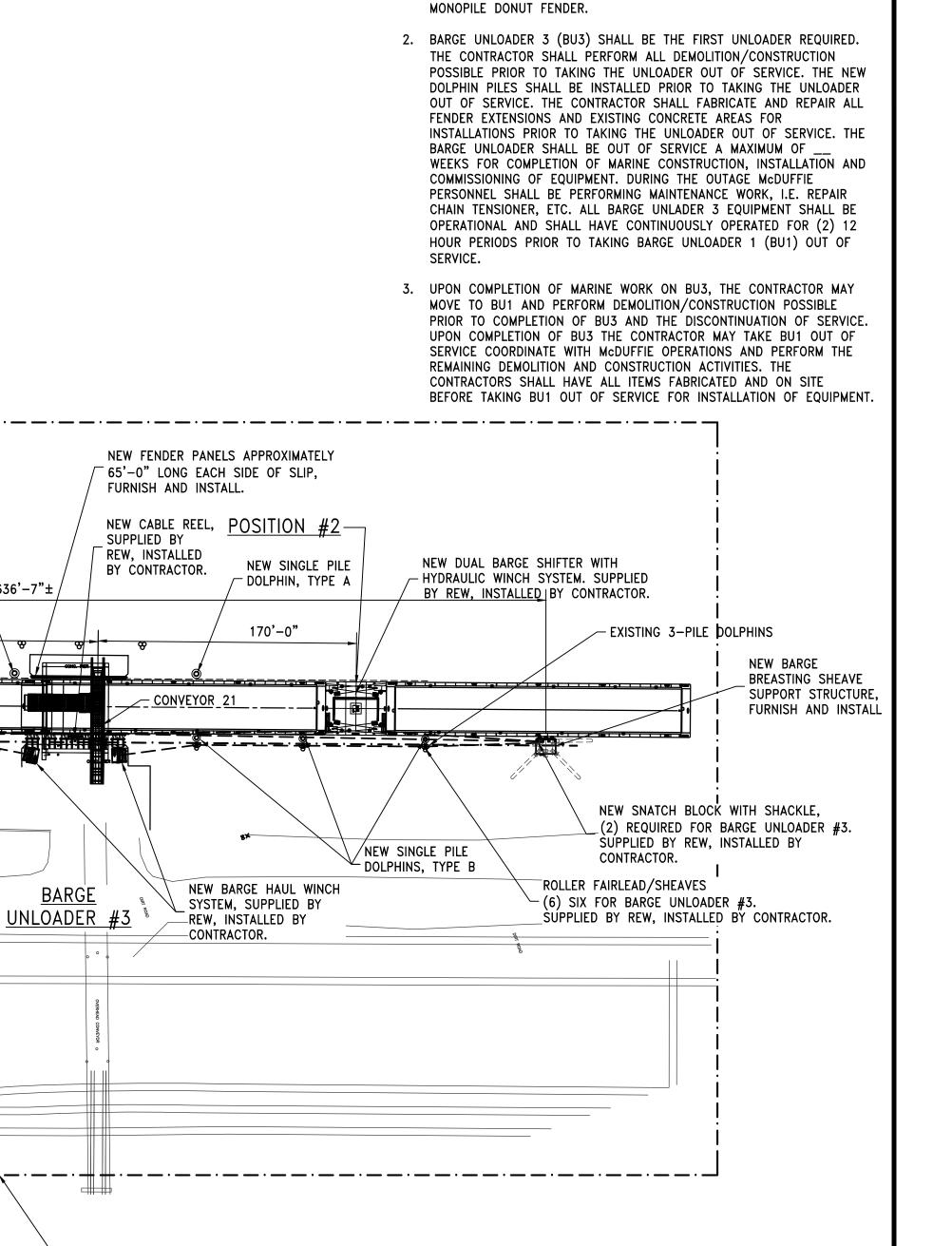
NEW SINGLE PILE

¬ DOLPHIN, TYPE B

NEW SINGLE PILE

DOLPHIN, TYPE A

EXISTING 3-PILE DOLPHINS, TYP.



NOTES:

1. TYPE A SINGLE PILE DOLPHIN: 36"ø x 100' LONG PIPE PILE WITH 8' LONG OCEAN GUARD MONOPILE DONUT FENDER. TYPE B SINGLE PILE DOLPHIN: 30"ø x 100' LONG PIPE PILE WITH 8' LONG OCEAN GUARD



SEE 4224M-C6 FOR

ENLARGED PLAN

					Cowles, Murphy, Glover
					& ASSOCIATES
С	ADDENDUM 1	11/28/23	WBS	GDEC	A Full Service Engineering Firm
В	ISSUED FOR BID	11/03/23	RCC	GDEC	
A	ISSUED FOR REVIEW	09/08/23	RCC	GDEC	PERFORMANCE • RELIABILITY • EXPERIENCE

DESCRIPTION

SEE 4224M-C7 FOR _ ENLARGED PLAN

457 St. Michael St., Mobile, AL 36602 Alabama (251) 433-1611 11880 Cranston Dr. Ste 102, Arlington, TN 38002 Tennessee (901) 290-5444

DUAL BARGE SHIFTER AND BARGE HAUL MARINE CONSTRUCTION McDUFFIE COAL TERMINAL MOBILE, ALABAMA

ROLLER FAIRLEAD/SHEAVES

EXISTING 3-PILE

 $^{ extstyle e$

_ PILE DOLPHIN, *)*

TYPE B

NEW BARGE BREASTING=

TO THE NEW CONCRETE BARGE

<u>DUAL BARGE SHIFTER - PLAN</u>

BREASTING/SHEAVE STRUCTURE.

CONTRACTOR SHALL RELOCATE SHACKLE

OF THE BARGE LOADING CAMEL SYSTEM

STRUCTURE, FURNISH —

AND INSTALL

- (5) FIVE REQUIRED FOR BARGE UNLOADER #1.

SUPPLIED BY REW, INSTALLED BY CONTRACTOR.

NEW SINGLE

NEW SNATCH BLOCK WITH SHACKLE, (2)

REQUIRED FOR BARGE UNLOADER #1

NEW BARGE BREASTING

FURNISH AND INSTALL

- SHEAVE SUPPORT STRUCTURE,

REQUIRED FOR BARGE UNLOADER #1.

SUPPLIED BY REW, INSTALLED BY CONTRACTOR.

NEW SINGLE PILE

DOLPHINS, TYPE A

POSITION #1

NEW SINGLE PILE

REW DRAWINGS FOR DETAILS.

DOLPHINS, TYPE B

NEW BARGE HAUL CABLE WITH NEW WINCH

INCLUDING ALL COMPONENTS TO CONNECT

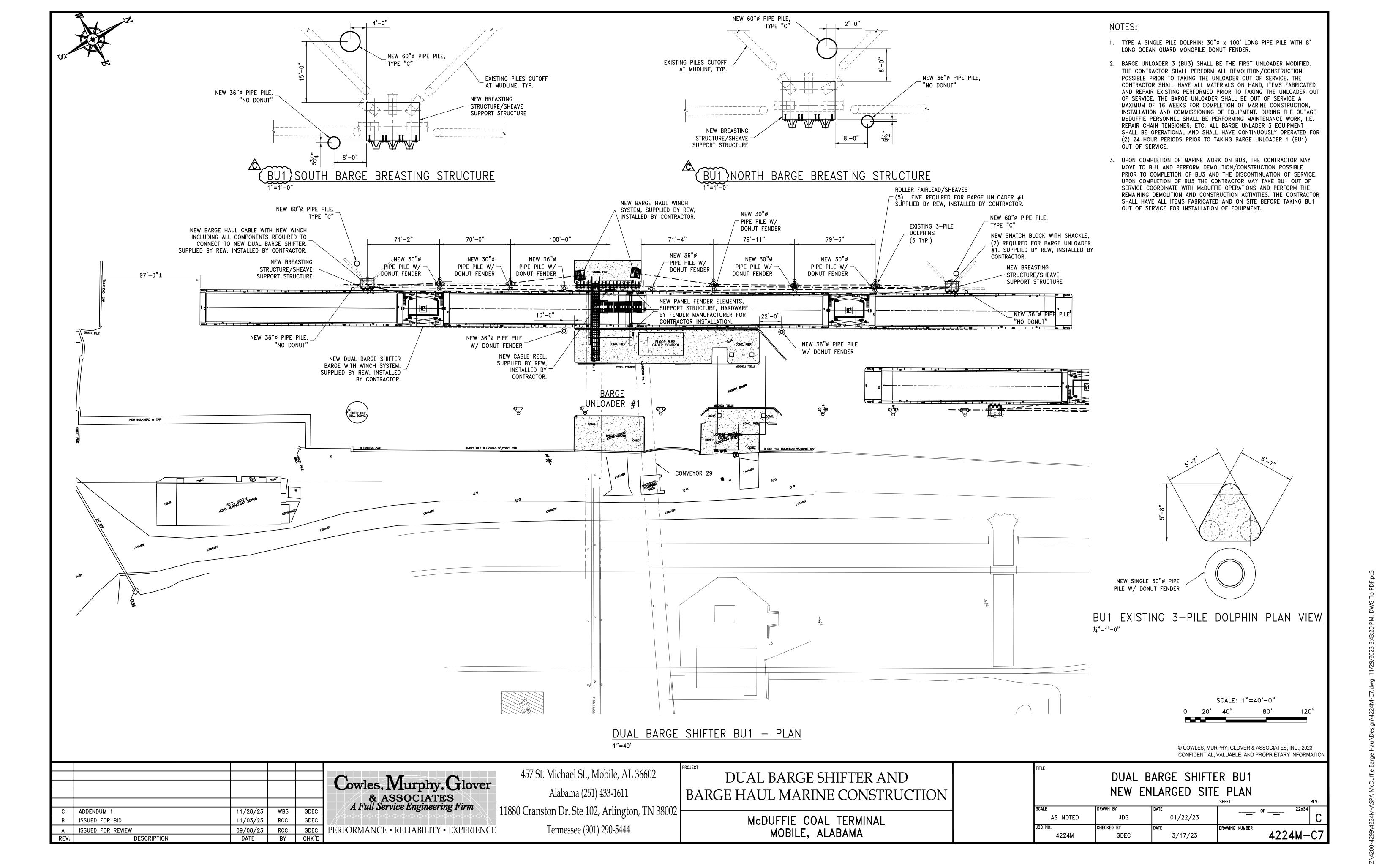
TO NEW DUAL BARGE SHIFTER. SUPPLIED_

BY REW, INSTALLED BY CONTRACTOR. SEE-

250'-0"

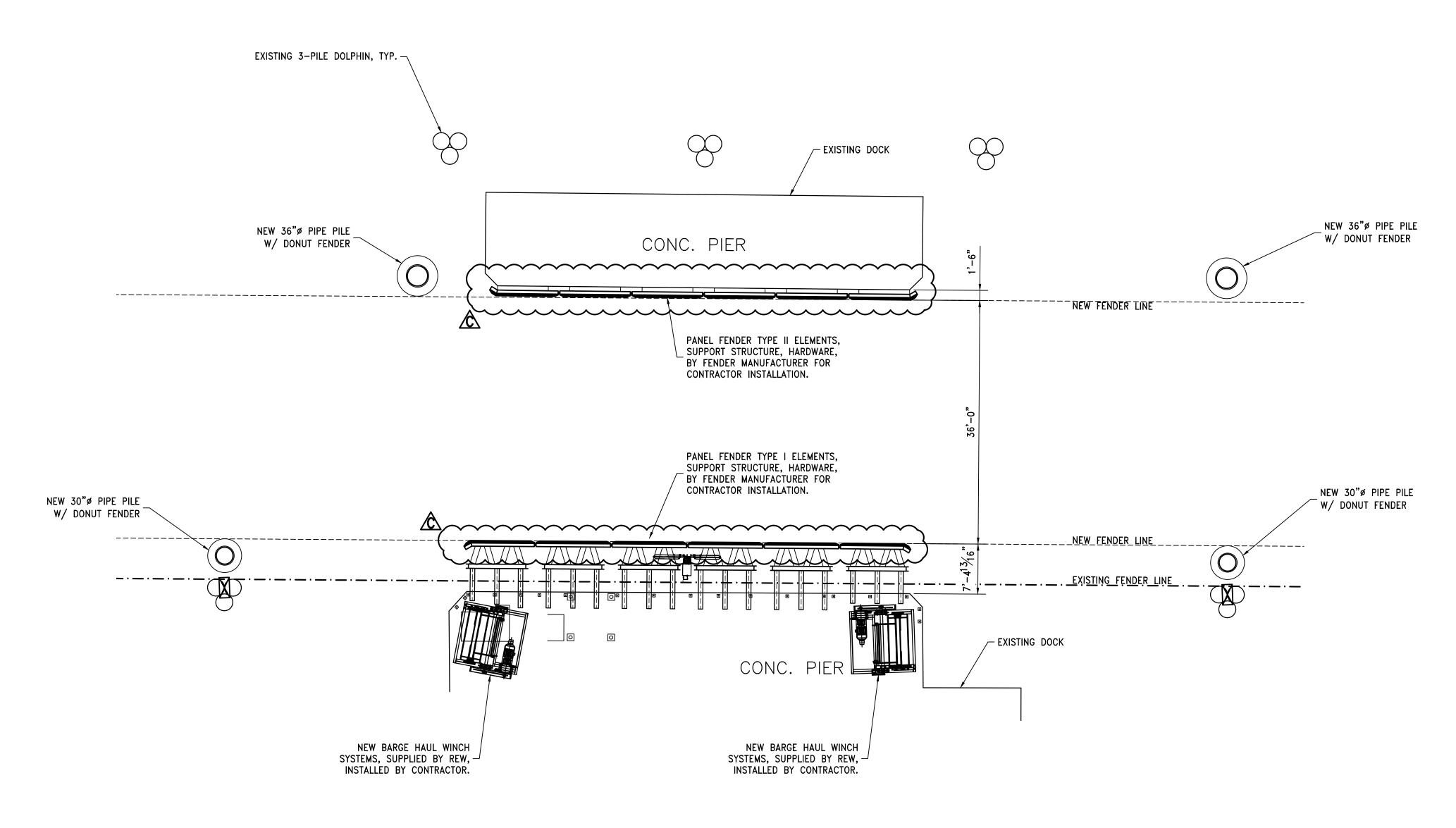
NEW OVERALL SITE PLAN 01/22/23 AS NOTED 4224M-C5 3/17/23 4224M

DUAL BARGE SHIFTER



THE DESIGN OF THE FENDER ELEMENTS, FENDER PANELS, SUPPORT STRUCTURE AND MISCELLANEOUS APPURTENANCES AS REQUIRED TO PROVIDE A SYSTEM TO RESTRAIN THE BARGE DURING UNLOADING SHALL BE PROVIDED BY THE FENDER MANUFACTURER. THE DESIGN SHALL BE SUBMITTED FOR OWNER REVIEW AND APPROVAL PRIOR TO FABRICATION. A GENERIC LAYOUT AND DETAILS SHALL BE PROVIDED WITH THE BID.

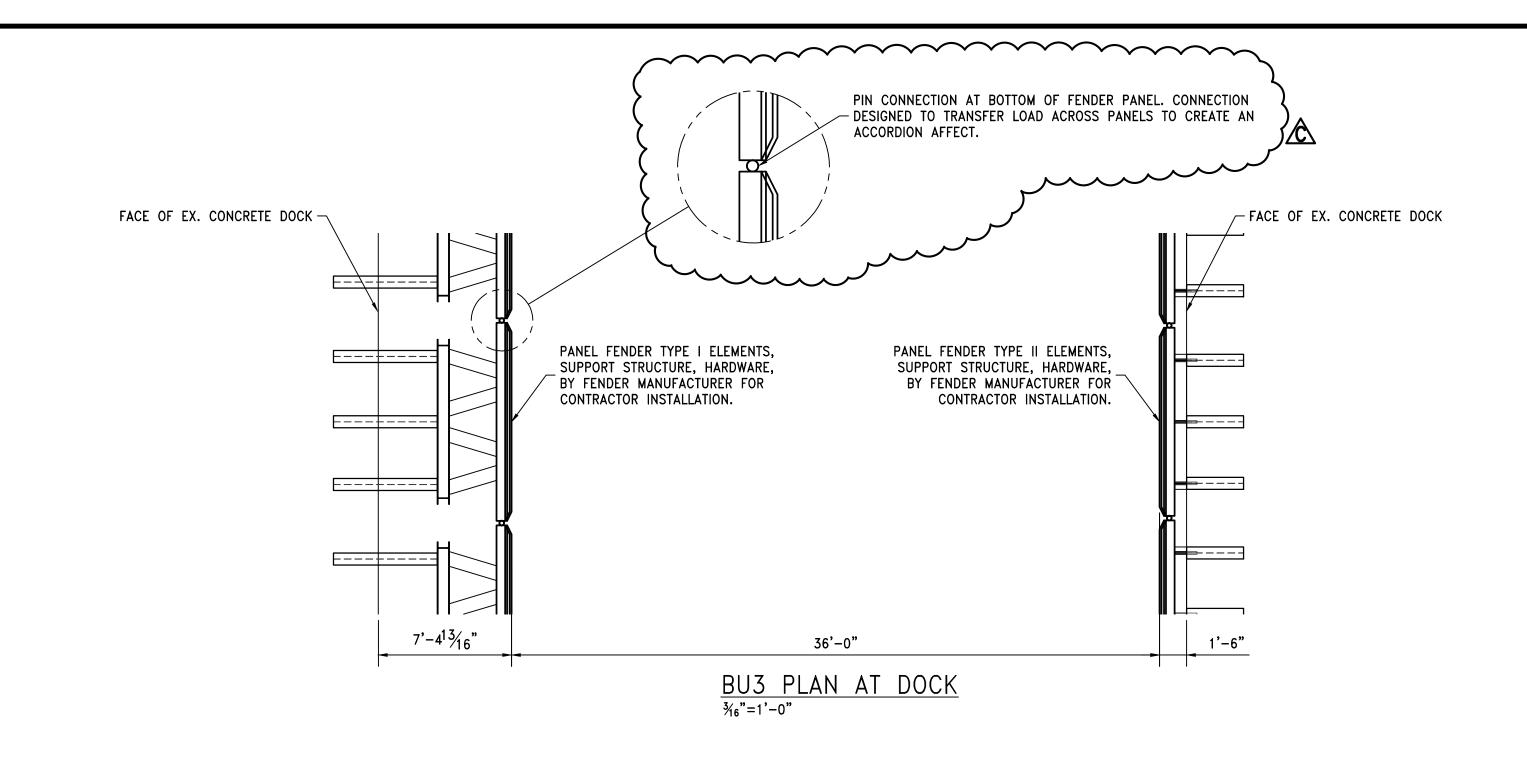
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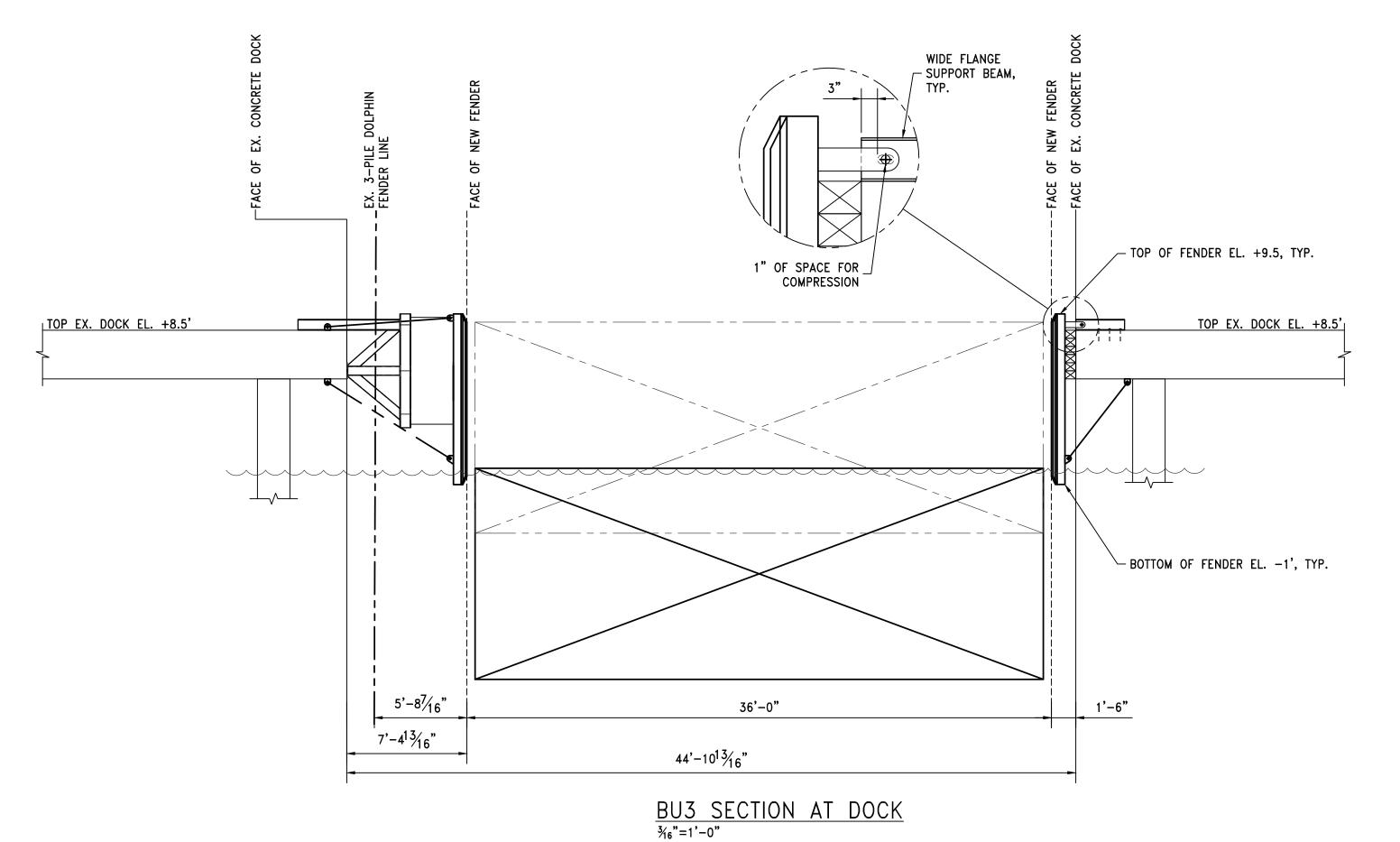


<u>DUAL BARGE SHIFTER BU3 - NEW ENLARGED SITE PLAN</u>
1"=10"

SCALE: 1"=40'-0"										
0	20'	40'	80'	120'						
	,	,	OVER & ASSOCIATES, E, AND PROPRIETAR)	,						

				Cowles, Murphy, Glover	457 St. Michael St., Mobile, AL 36602	DUAL BARGE SHIFTER AND	TITLE	DUAL B	BARGE SHIFT	TER BU3	
				& ASSOCIATES A Full Service Engineering Firm	Alabama (251) 433-1611	BARGE HAUL MARINE CONSTRUCTION		NEW EN	LARGED DO	CK PLAN	
СВ	ADDENDUM 1 ISSUED FOR BID	11/28/23 11/03/23	GDEC GDEC	A Full Service Engineering Firm	11880 Cranston Dr. Ste 102, Arlington, TN 38002	McDUFFIE COAL TERMINAL	SCALE AS NOTED	DRAWN BY JDG	DATE 01/22/23	SHEET 222	2x34 REV.
A REV	ISSUED FOR REVIEW . DESCRIPTION	09/08/23 DATE	GDEC CHK'D	PERFORMANCE • RELIABILITY • EXPERIENCE	Tennessee (901) 290-5444	MOBILE, ALABAMA	JOB NO. 4224M	CHECKED BY GDEC	DATE 3/17/23	DRAWING NUMBER 4224N	M-S1





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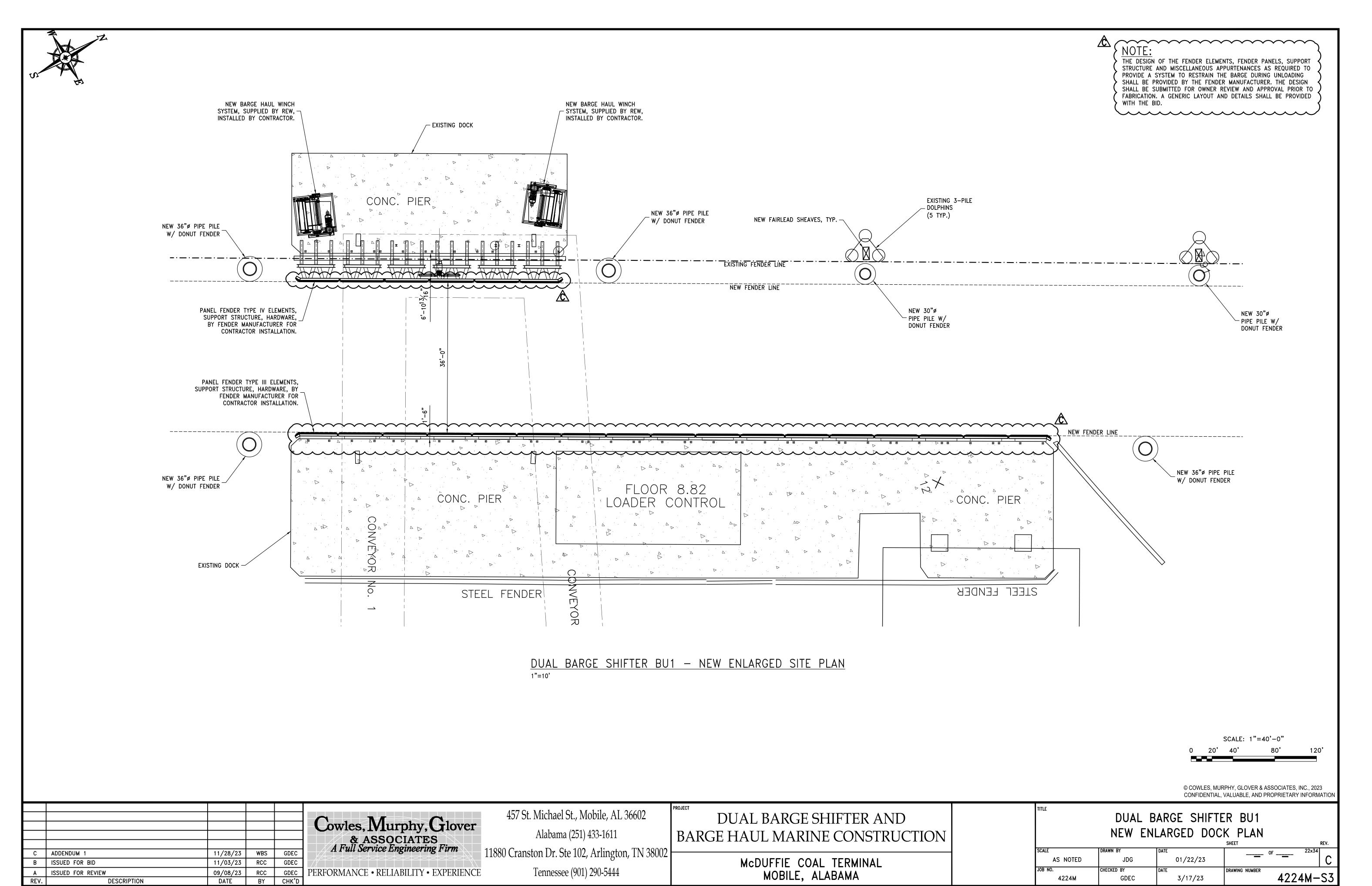
THE DESIGN OF THE FENDER ELEMENTS, FENDER PANELS, SUPPORT

STRUCTURE AND MISCELLANEOUS APPURTENANCES AS REQUIRED TO PROVIDE A SYSTEM TO RESTRAIN THE BARGE DURING UNLOADING

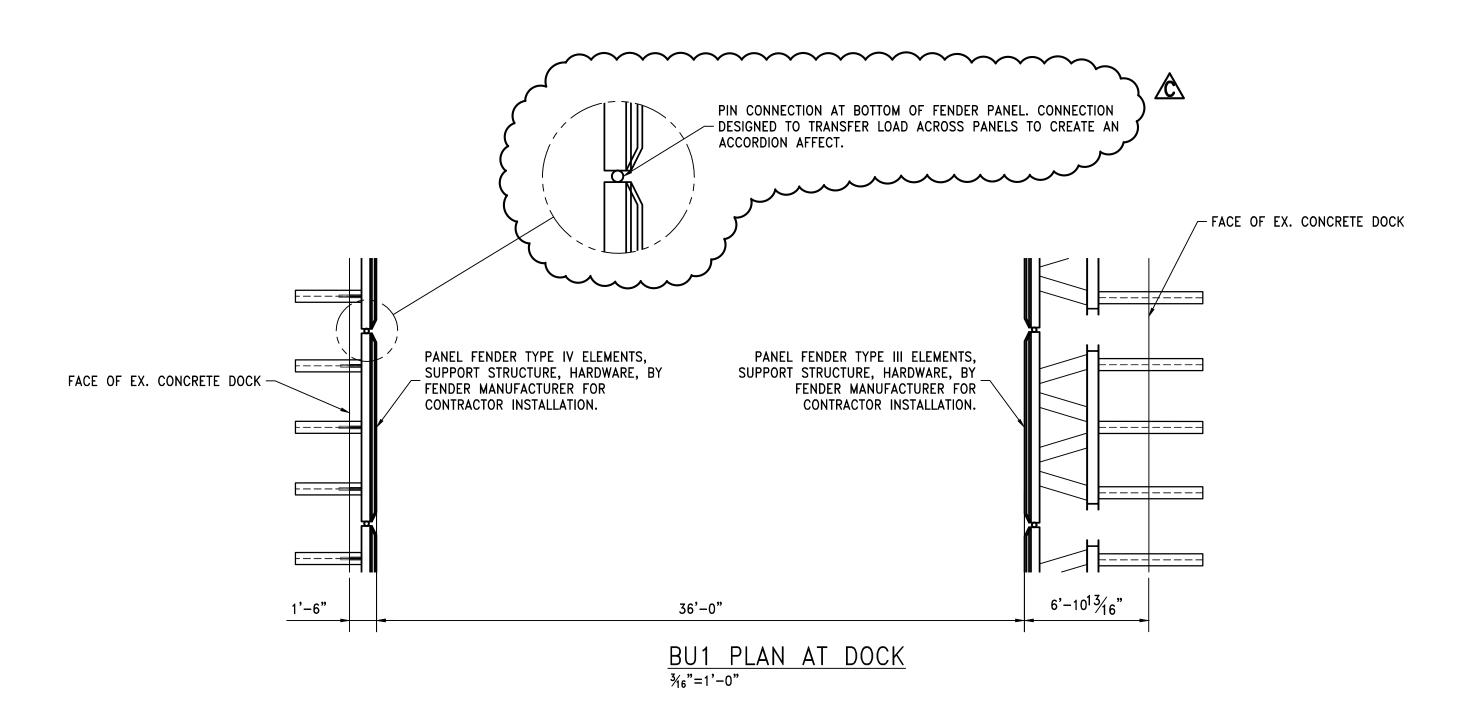
SHALL BE PROVIDED BY THE FENDER MANUFACTURER. THE DESIGN SHALL BE SUBMITTED FOR OWNER REVIEW AND APPROVAL PRIOR TO FABRICATION. A GENERIC LAYOUT AND DETAILS SHALL BE PROVIDED

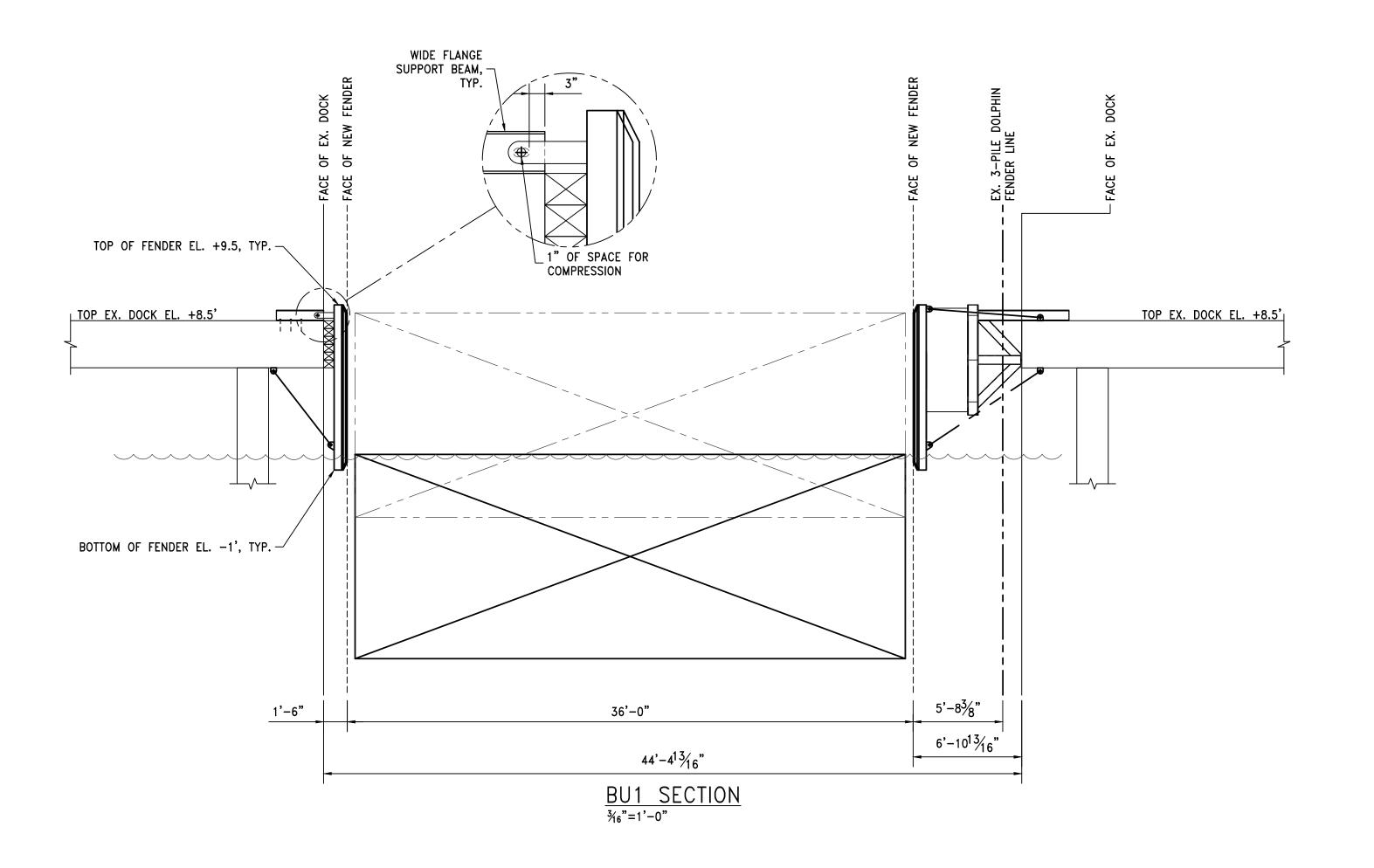
WITH THE BID.

		Cowles, Murphy, Glover & ASSOCIATES A Full Service Engineering Firm	457 St. Michael St., Mobile, AL 36602 Alabama (251) 433-1611	DUAL BARGE SHIFTER AND BARGE HAUL MARINE CONSTRUCTION	BU3 DOCK SECTION
C ADDENDUM 1 B ISSUED FOR BID A ISSUED FOR REVIEW REV. DESCRIPTION	11/28/23 WBS GDEC 11/03/23 RCC GDEC 09/08/23 JWM GDEC DATE BY CHK'D	PERFORMANCE • RELIABILITY • EXPERIENCE	11880 Cranston Dr. Ste 102, Arlington, TN 38002 Tennessee (901) 290-5444	McDUFFIE COAL TERMINAL MOBILE, ALABAMA	SCALE DRAWN BY DATE 09/06/23 SHEET 22x34 REV. AS NOTED JWM 09/06/23 OF OF C JOB NO. CHECKED BY DATE 09/06/23 DRAWING NUMBER 4224M—S2



4299\4224M-ASPA McDuffie Barge Haul\Design\4224M-S3.dwg, 11/29/2023 3:01:24 PM, _DWG To PDF.pc3





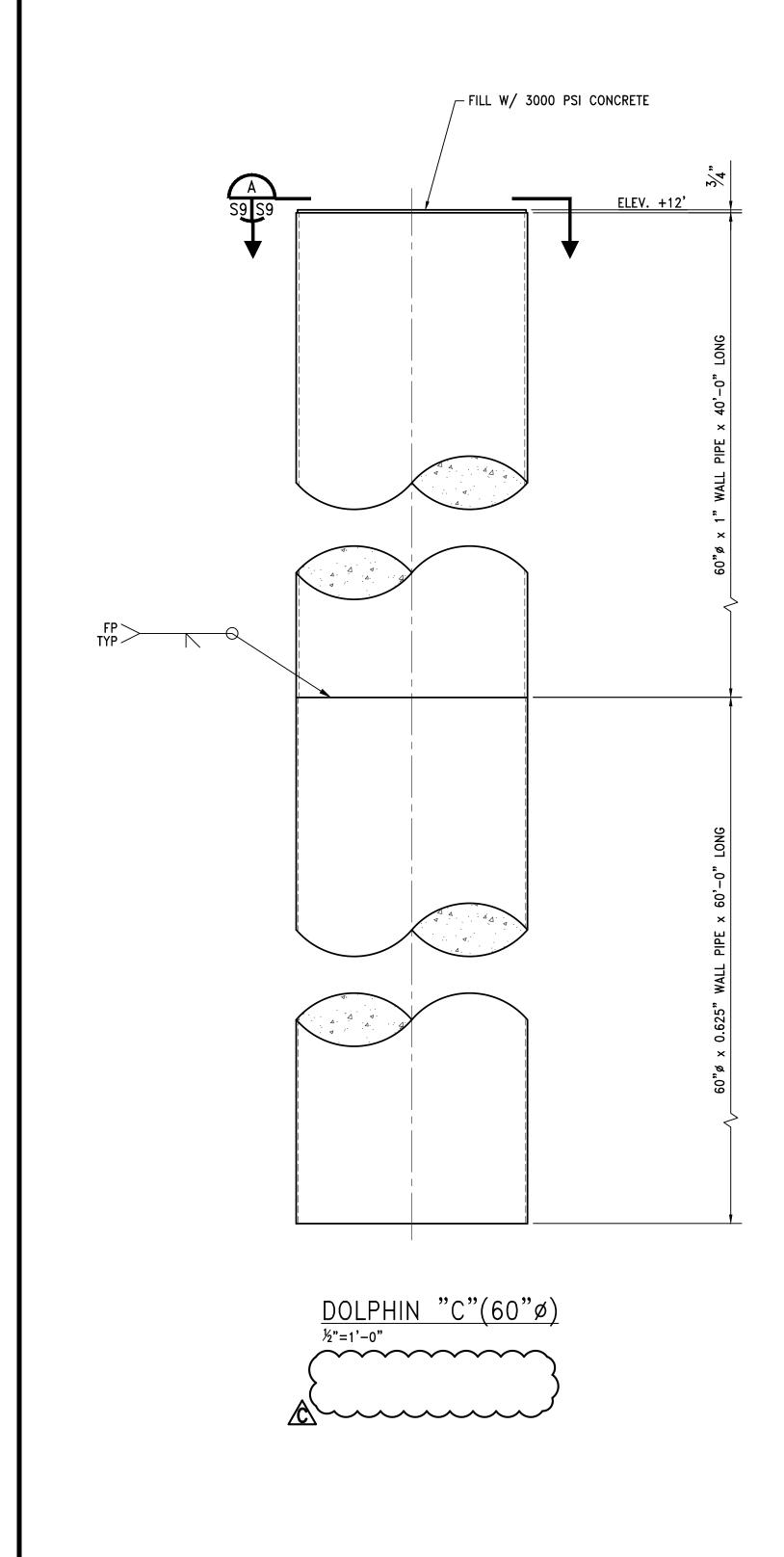
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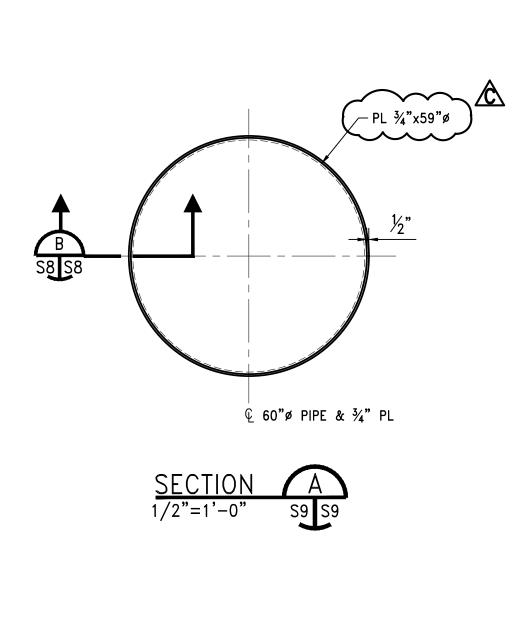
THE DESIGN OF THE FENDER ELEMENTS, FENDER PANELS, SUPPORT STRUCTURE AND MISCELLANEOUS APPURTENANCES AS REQUIRED TO PROVIDE A SYSTEM TO RESTRAIN THE BARGE DURING UNLOADING SHALL BE PROVIDED BY THE FENDER MANUFACTURER. THE DESIGN SHALL BE SUBMITTED FOR OWNER REVIEW AND APPROVAL PRIOR TO

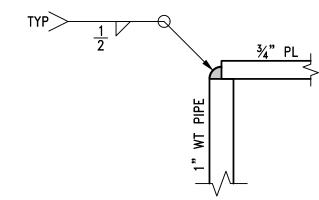
FABRICATION. A GENERIC LAYOUT AND DETAILS SHALL BE PROVIDED

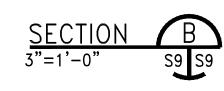
WITH THE BID.

				Cowles, Murphy, Glover & ASSOCIATES	457 St. Michael St., Mobile, AL 36602 Alabama (251) 433-1611	DUAL BARGE SHIFTER AND BARGE HAUL MARINE CONSTRUCTION	TITLE	BU	11 DOCK SEC	TION	
С	ADDENDUM 1	11/28/23	WBS GDEC	A Full Service Engineering Firm	11880 Cranston Dr. Ste 102, Arlington, TN 38002	Madueele com tedminal	SCALE AS NOTED	DRAWN BY	DATE 09/06/23	SHEET — OF	22x34 REV.
A B	ISSUED FOR BID ISSUED FOR REVIEW DESCRIPTION	11/03/23 09/08/23 DATE		PERFORMANCE • RELIABILITY • EXPERIENCE	Tennessee (901) 290-5444	McDUFFIE COAL TERMINAL MOBILE, ALABAMA	JOB NO. 4224M	CHECKED BY GDEC	DATE 09/06/23	DRAWING NUMBER 4224	4M-S4



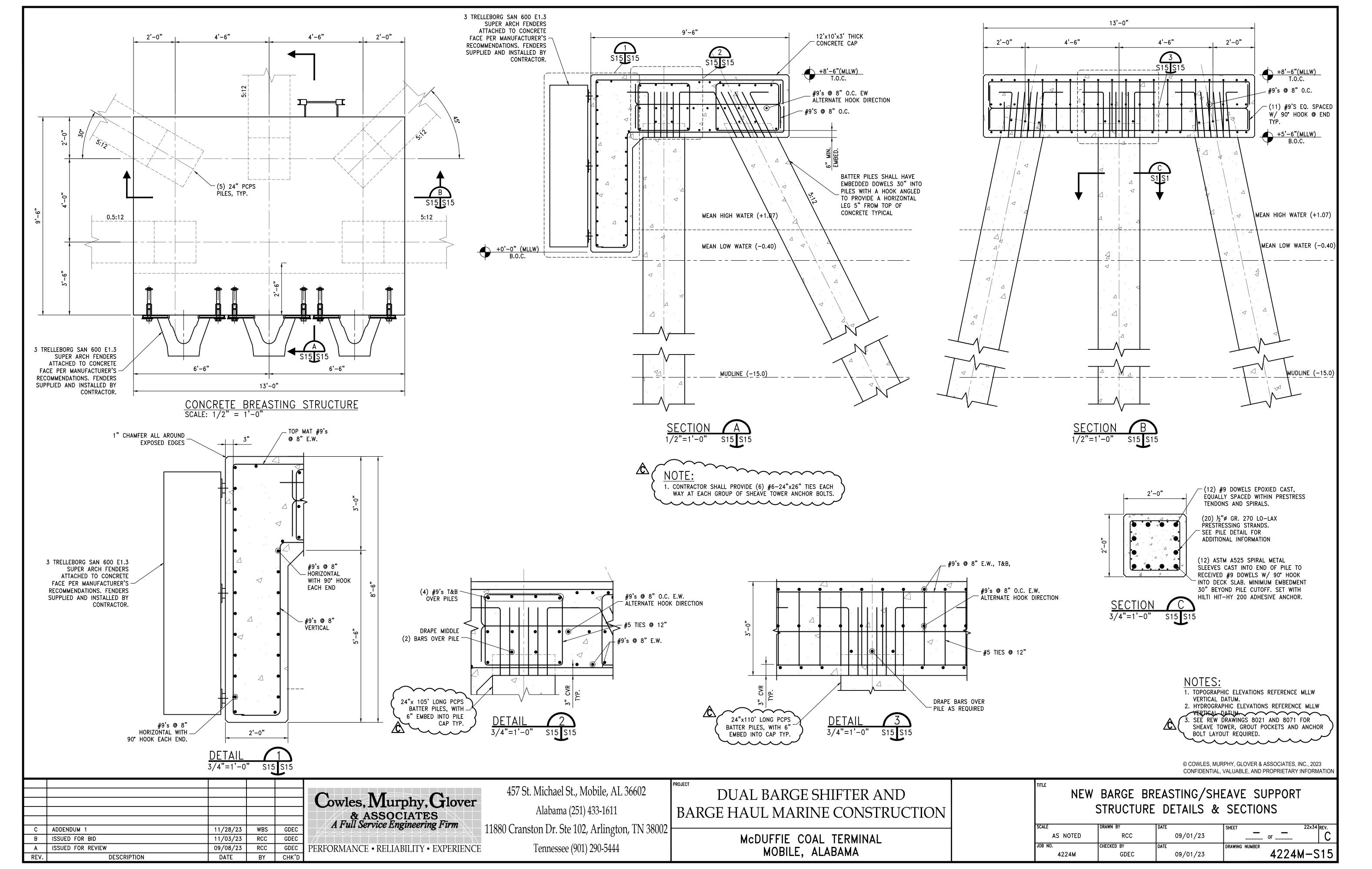




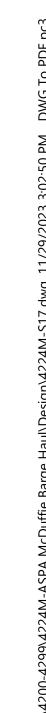


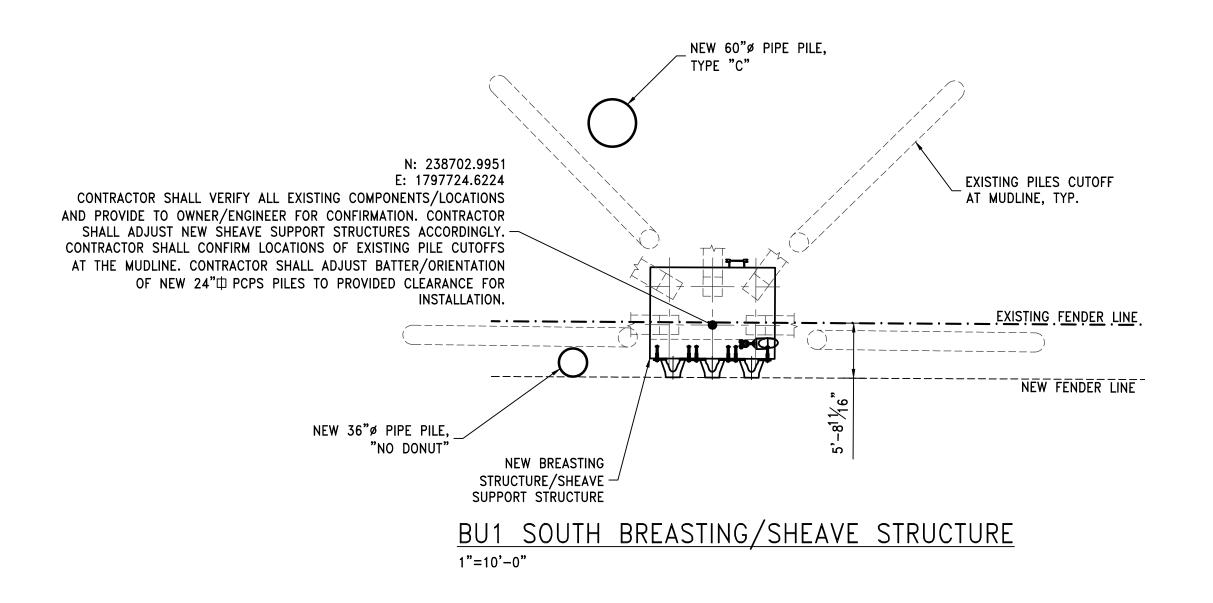
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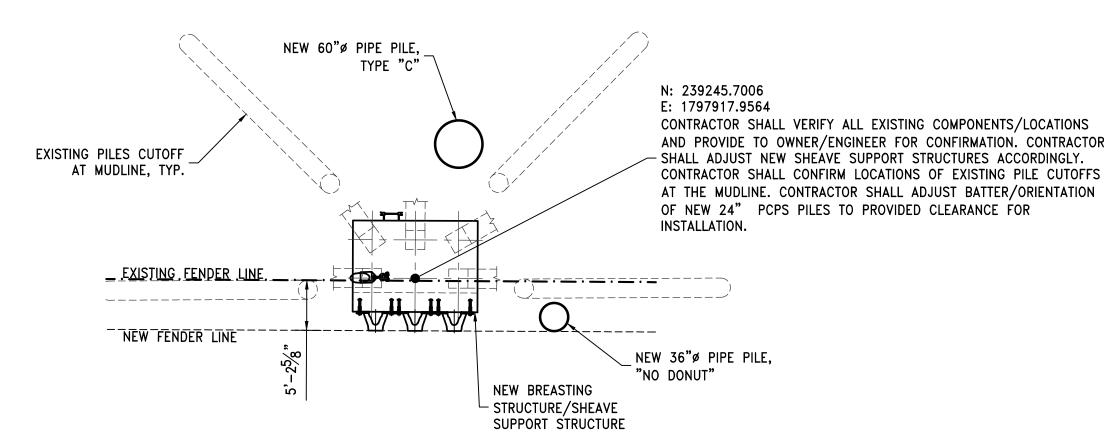
			Cowles, Murphy, Glover & ASSOCIATES A Full Service Engineering Firm	457 St. Michael St., Mobile, AL 36602 Alabama (251) 433-1611	DUAL BARGE SHIFTER AND BARGE HAUL MARINE CONSTRUCTION	TITLE)LPHIN "C'	' ELEVATION	AND DETAILS
C ADDENDUM 1	11/28/23	WBS		11880 Cranston Dr. Ste 102, Arlington, TN 38002	Madueele coal tedannal	SCALE AS NOTED	DRAWN BY JWM	DATE 09/06/23	SHEET — 22x34 REV.
B ISSUED FOR BID A ISSUED FOR REVIEW REV. DESCRIPTION	11/03/23 09/08/23	JWM	GDEC PERFORMANCE • RELIABILITY • EXPERIENCE	Tennessee (901) 290-5444	McDUFFIE COAL TERMINAL MOBILE, ALABAMA	JOB NO. 4224M	CHECKED BY GDEC	DATE 09/06/23	DRAWING NUMBER 4224M-S9



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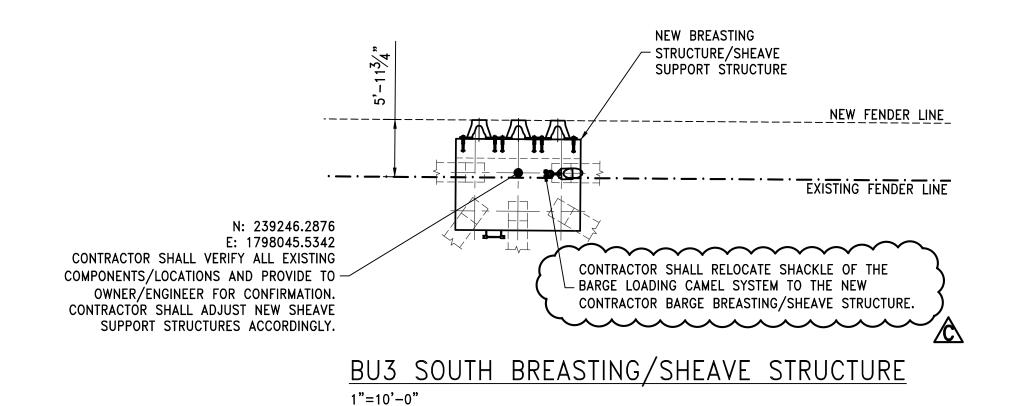


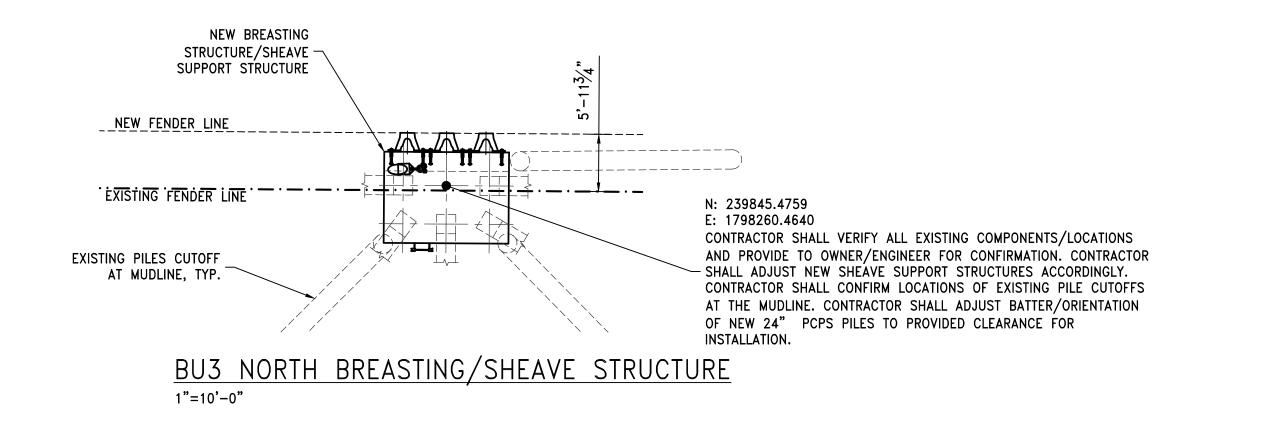




BU1 NORTH BREASTING/SHEAVE STRUCTURE

1"=10'-0"





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				Cowles, Murphy, Glover & ASSOCIATES A Full Service Engineering Firm	457 St. Michael St., Mobile, AL 36602 Alabama (251) 433-1611	DUAL BARGE SHIFTER AND BARGE HAUL MARINE CONSTRUCTION	TITLE		BREASTING PILE LAYOUT	STRUCTURE
C ADDENDUM 1 B ISSUED FOR BID	11/28/23 11/03/23	WBS RCC	GDEC	A Full Service Engineering Firm	11880 Cranston Dr. Ste 102, Arlington, TN 38002	McDUFFIE COAL TERMINAL	SCALE AS NOTED	DRAWN BY RCC	DATE 09/01/23	SHEET OF C
A ISSUED FOR REVIEW REV. DESCRIPTION	09/08/23 DATE		GDEC CHK'D	PERFORMANCE • RELIABILITY • EXPERIENCE	Tennessee (901) 290-5444	MOBILE, ALABAMA	JOB NO. 4224M	CHECKED BY GDEC	DATE 09/01/23	DRAWING NUMBER 4224M-S17

