



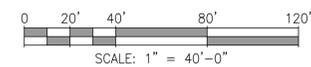
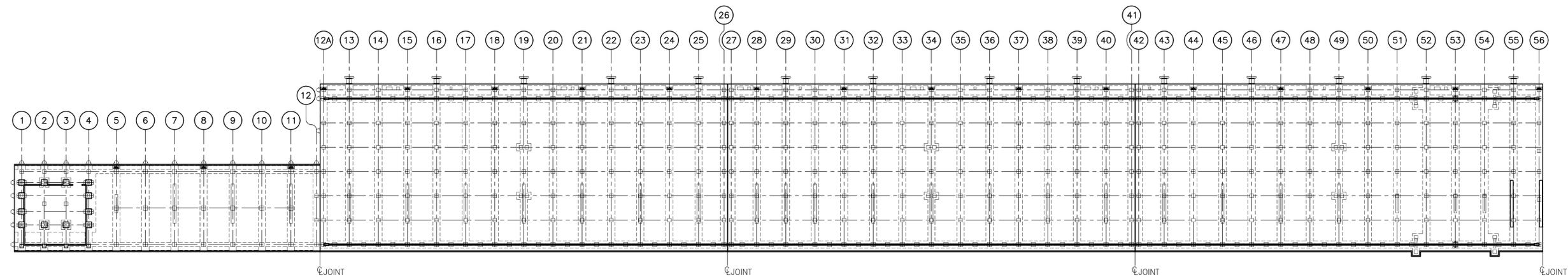
ALABAMA PORT AUTHORITY

McDUFFIE TERMINAL - DOCK II REFURBISHMENT SUPPLY OF NEW FENDERS

KAY IVEY, GOVERNOR OF ALABAMA
DOUGLAS C. OTTO, JR., DIRECTOR & CEO



NOTES									 <p>THIS DOCUMENT IS THE PROPERTY OF APTIM. IT MAY CONTAIN INFORMATION DESCRIBING TECHNOLOGY OWNED BY APTIM AND DEEMED TO BE COMMERCIALY SENSITIVE. IT IS TO BE USED ONLY IN CONNECTION WITH WORK BEING PERFORMED BY APTIM. REPRODUCTION IN WHOLE OR IN PART FOR ANY PURPOSE OTHER THAN WORK PERFORMED BY APTIM IS FORBIDDEN EXCEPT BY EXPRESS WRITTEN PERMISSION OF APTIM. IT IS TO BE SAFEGUARDED AGAINST BOTH DELIBERATE AND INADVERTENT DISCLOSURE TO ANY THIRD PARTY.</p>	CLIENT DWG NO:		
										McDUFFIE TERMINAL -- DOCK II REFURBISHMENT FENDER REPLACEMENT PROJECT COVER SHEET		
										FOR: ALABAMA PORT AUTHORITY		
										PROJECT NO: 4732 DWG NO: G1 REV: A		
	REFERENCE DRAWINGS	NO.	REVISION	DRAWN	CK'D	APPD	DATE	DRAWN: JLH	CK'D: JEJ	APPD: RSG	DATE: 11-17-25	SCALE: NONE
		A	ISSUED FOR BID	JLH	JEJ	RSG	01-23-26					



DOCK II - OVERALL PLAN
1"=40'-0"



KEY PLAN



CLIENT DWG NO:

McDUFFIE TERMINAL - DOCK II REFURBISHMENT
FENDER REPLACEMENT
OVERALL PLAN

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4732

DWG NO: G3

REV: A

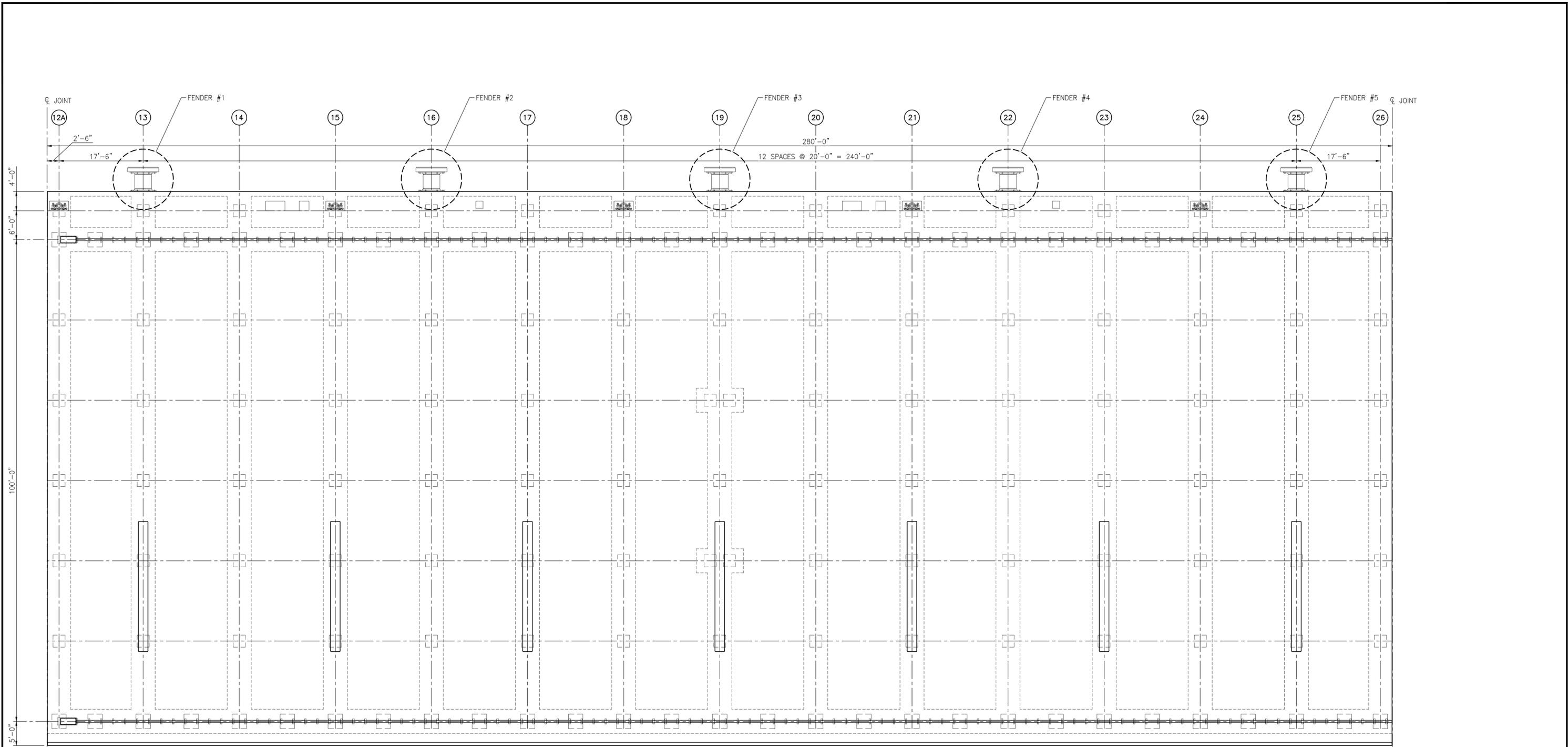


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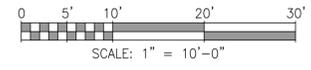
DRAWN: ECW CK'D: JEJ APPD: RSG DATE: 11-25-25 SCALE: 1"=40'-0"

NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	ECW	JEJ	RSG	01-23-26

NOTES



FENDER	CELL	CELL	# BOLTS	PANEL
		CONDITION	MISSING	CONDITION
1	TOP	REPLACE	1	REPLACE
	BOTTOM	REPLACE	1	
2	TOP	REPLACE	0	REPLACE
	BOTTOM	KEEP	1	
3	TOP	REPLACE	3	REPLACE
	BOTTOM	REPLACE	1	
4	TOP	KEEP	1	REPLACE
	BOTTOM	REPLACE	1	
5	TOP	REPLACE	1	REPLACE
	BOTTOM	REPLACE	2	
TOTAL REQ'D:		8	12	5



DOCK II - PARTIAL PLAN 1 OF 3
1" = 10'-0"



KEY PLAN



CLIENT DWG NO:

- NOTES
- THE # BOLTS MISSING ARE THE BOLTS THAT FASTEN THE CELL TO THE CONCRETE.
 - ALL NEW BOLTS SHALL BE SUPPLIED TO CONNECT PANELS TO CELLS.
 - RELOCATE THE TOP CELL OF FENDER 4 TO THE TOP CELL LOCATION OF FENDER 2. BOTH CELLS AT FENDER 4 TO BE NEW.

NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	ECW	JEJ	RSG	01-23-26

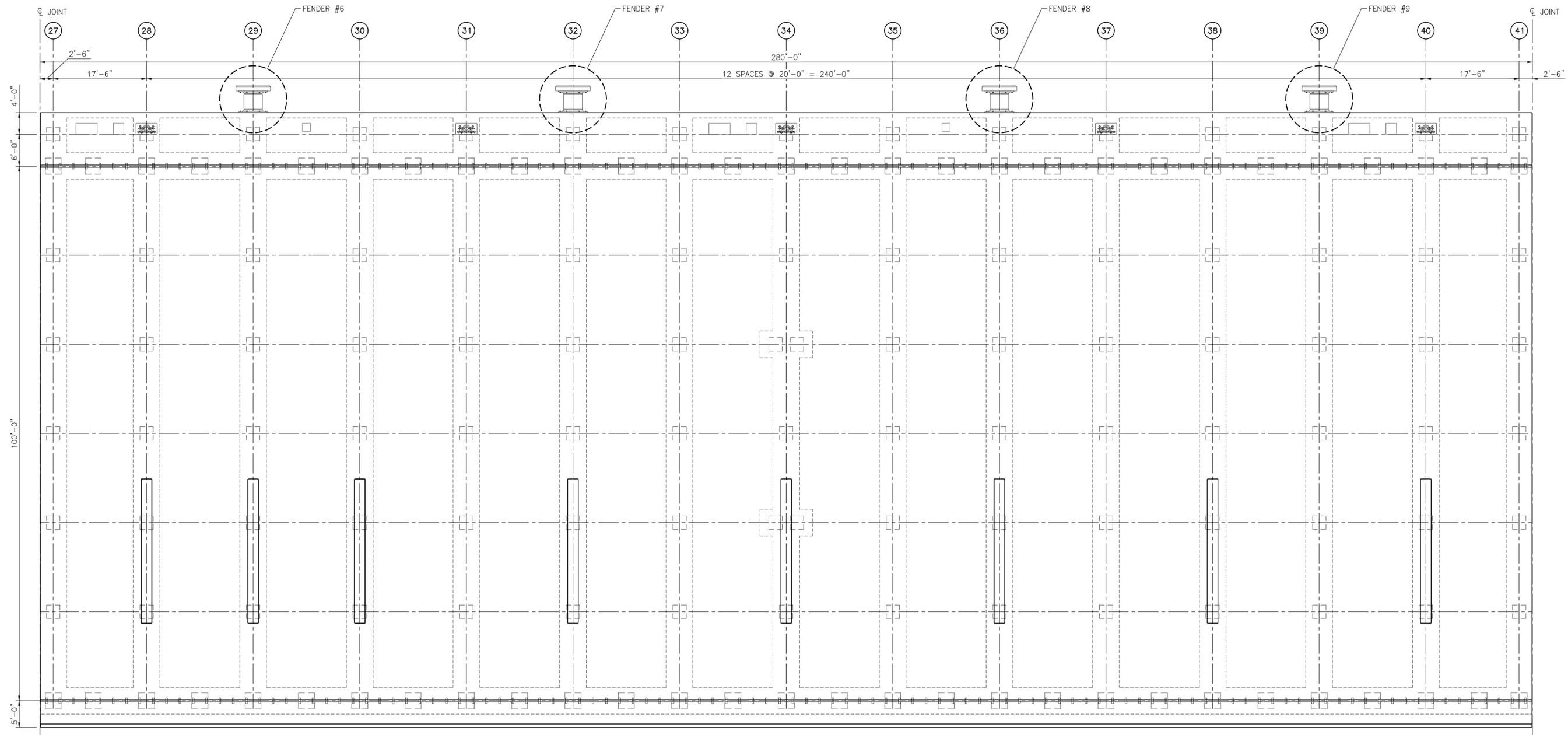
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McDUFFIE TERMINAL -- DOCK II REFURBISHMENT
FENDER REPLACEMENT
PARTIAL PLAN 1 OF 3

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4732 DWG NO: G4 REV: A

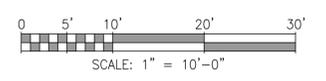


FENDER	CELL CONDITION	# BOLTS MISSING	PANEL CONDITION
6	TOP	2	REPLACE
	BOTTOM	0	REPLACE
7	TOP	0	REPLACE
	BOTTOM	0	REPLACE
8	TOP	0	REPLACE
	BOTTOM	0	REPLACE
9	TOP	2	REPLACE
	BOTTOM	1	REPLACE
TOTAL REQ'D:		6	4

DOCK II - PARTIAL PLAN 2 OF 3
1" = 10'-0"



KEY PLAN



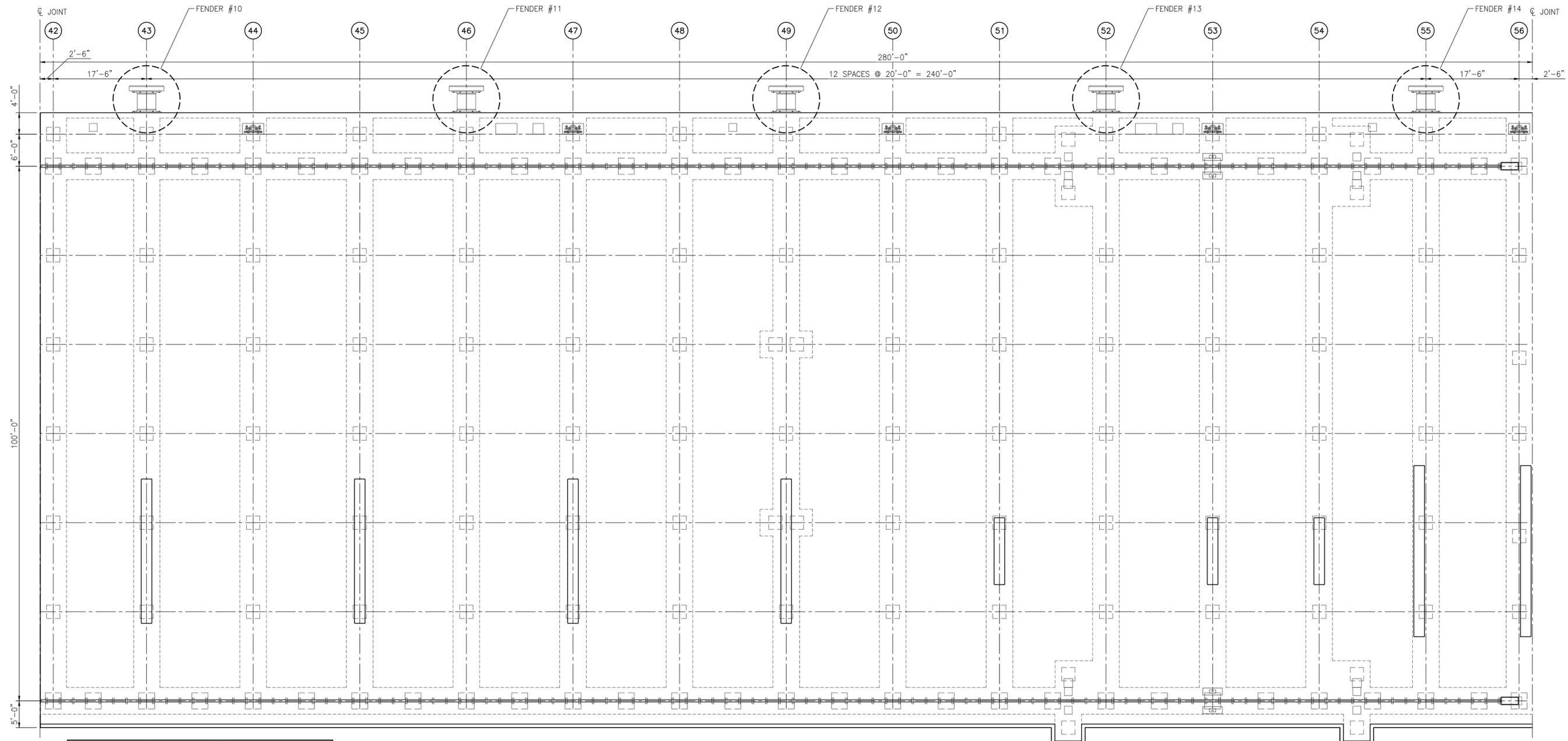
- NOTES
- THE # BOLTS MISSING ARE THE BOLTS THAT FASTEN THE CELL TO THE CONCRETE.
 - ALL NEW BOLTS SHALL BE SUPPLIED TO CONNECT PANELS TO CELLS.
 - RELOCATE THE BOTTOM CELL OF FENDER 8 TO THE BOTTOM CELL LOCATION OF FENDER 7. BOTH CELLS AT FENDER 8 TO BE NEW.

NO.	REVISION	DATE	DRAWN	CK'D	APPD
A	ISSUED FOR BID	01-23-26	ECW	JEJ	RSG

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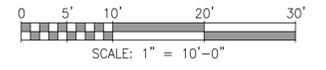
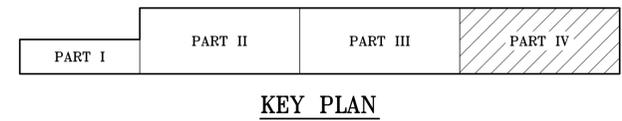
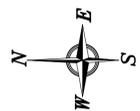
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CLIENT DWG NO:	McDUFFIE TERMINAL -- DOCK II REFURBISHMENT
	FENDER REPLACEMENT
	PARTIAL PLAN 2 OF 3
FOR:	ALABAMA PORT AUTHORITY
PROJECT NO:	4732
DWG NO:	G5
REV:	A



FENDER	CELL CONDITION	# BOLTS MISSING	PANEL CONDITION	
10	TOP	REPLACE	0	REPLACE
	BOTTOM	REPLACE	0	
11	TOP	REPLACE	1	REPLACE
	BOTTOM	REPLACE	0	
12	TOP	REPLACE	0	REPLACE
	BOTTOM	REPLACE	0	
13	TOP	KEEP	0	REPLACE
	BOTTOM	KEEP	2	
14	TOP	KEEP	0	REPLACE
	BOTTOM	KEEP	1	
TOTAL REQ'D:		6	4	5

DOCK II - PARTIAL PLAN 3 OF 3
1" = 10'-0"



NOTES

- THE # BOLTS MISSING ARE THE BOLTS THAT FASTEN THE CELL TO THE CONCRETE.
- ALL NEW BOLTS SHALL BE SUPPLIED TO CONNECT PANELS TO CELLS.

NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	ECW	JEJ	RSG	01-23-26

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DRAWN: ECW CK'D: JEJ APPD: RSG DATE: 11-17-25 SCALE: AS SHOWN

CLIENT DWG NO:

McDUFFIE TERMINAL - DOCK II REFURBISHMENT

FENDER REPLACEMENT

PARTIAL PLAN 3 OF 3

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4732 DWG NO: G6 REV: A



EXISTING FENDER CONNECTION TO DOCK
N/A



EXISTING FENDER CONNECTION TO DOCK
N/A



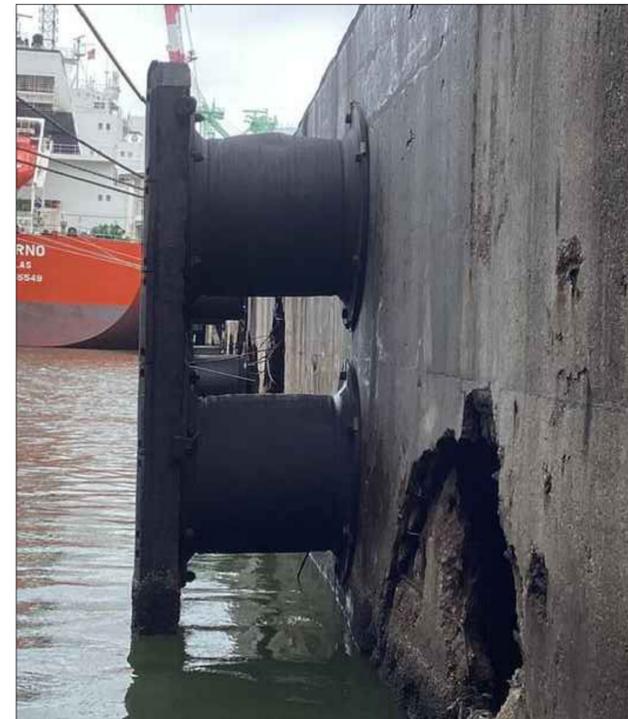
EXISTING FENDER CONNECTION TO DOCK
N/A



OVERALL EXISTING FENDER CONDITION
N/A



OVERALL EXISTING FENDER CONDITION
N/A



OVERALL EXISTING FENDER CONDITION
N/A

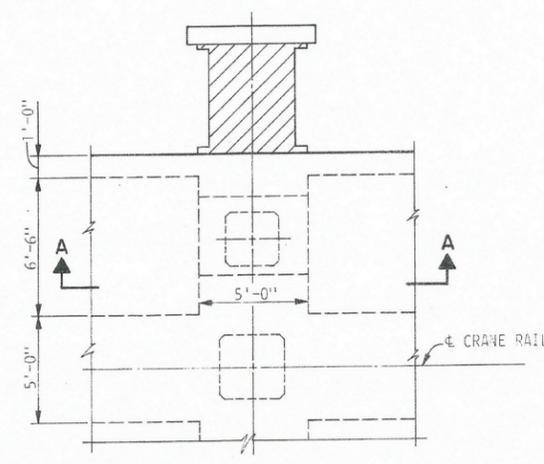


CLIENT DWG NO:	
McDUFFIE TERMINAL -- DOCK II REFURBISHMENT	
FENDER REPLACEMENT	
EXISTING FENDER REFERENCE PHOTOS	
FOR: ALABAMA PORT AUTHORITY	
PROJECT NO: 4732	DWG NO: S2
	REV: A

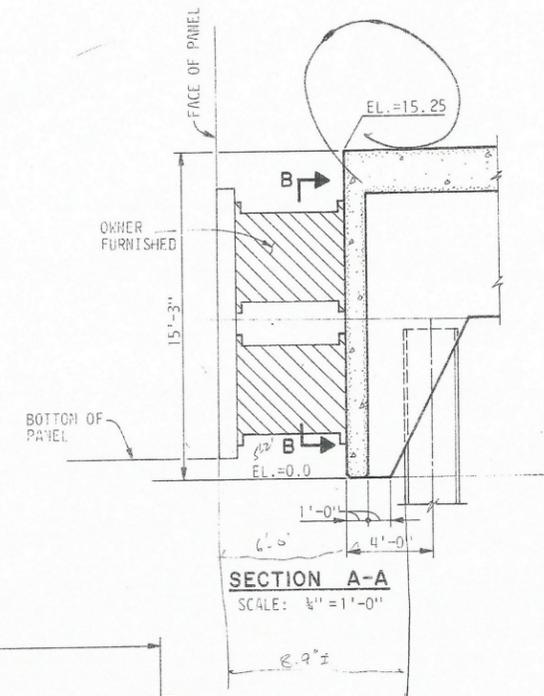
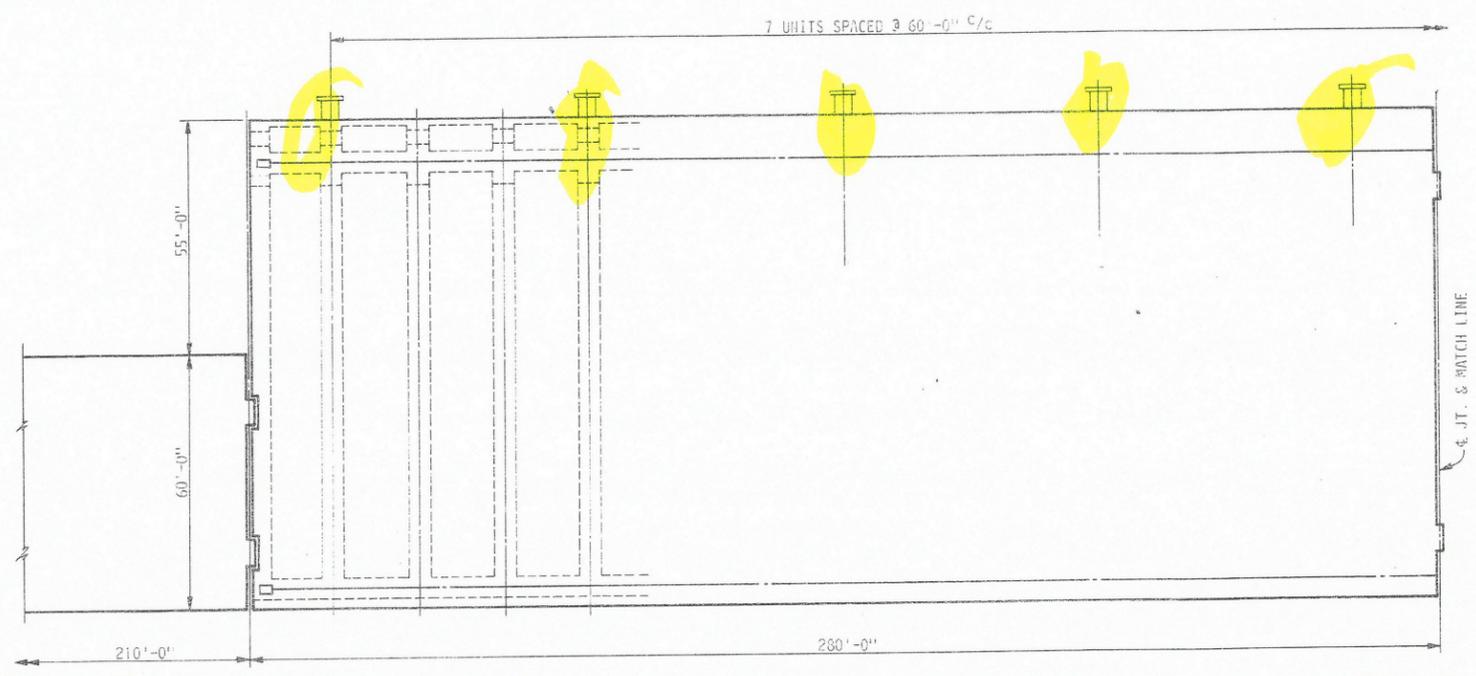


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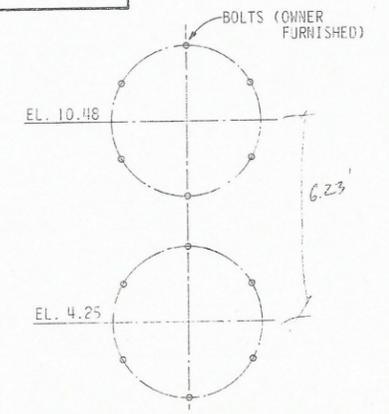
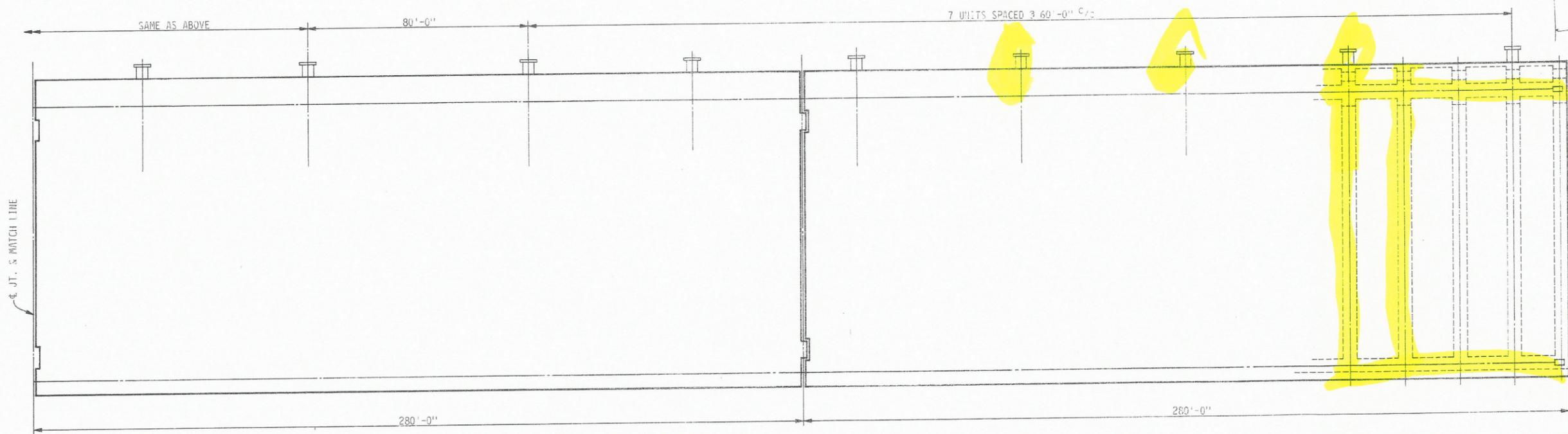
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	A	ISSUED FOR BID	03-23-26	ECW	MED	RSB	
REFERENCE DRAWINGS							



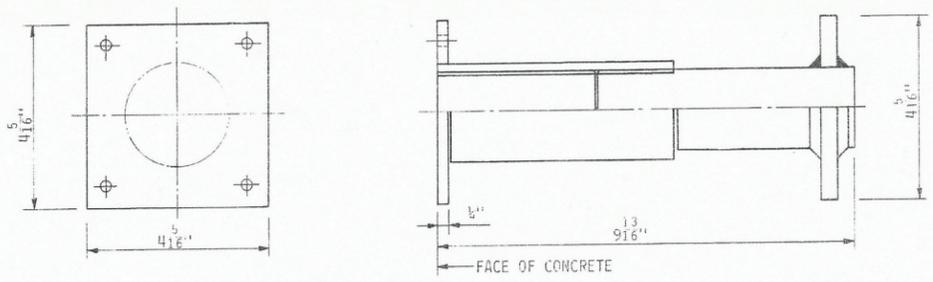
PARTIAL PLAN
SCALE: 1/4" = 1'-0"



SECTION A-A
SCALE: 1/4" = 1'-0"



SECTION B-B



FENDER BOLT DETAILS

NOTE:
THE CONTRACTOR WILL BE FURNISHED TWO (2) TEMPLATES FOR LOCATING FENDER BOLTS IN FORMS.
THE FENDERS, ANCHOR BOLTS AND TEMPLATES WILL BE FURNISHED BY THE OWNER.

REFERENCE

THE INDUSTRIAL DEVELOPMENT BOARD OF THE CITY OF MOBILE, ALABAMA (ALABAMA STATE DOCKS DEPARTMENT PROJECT)

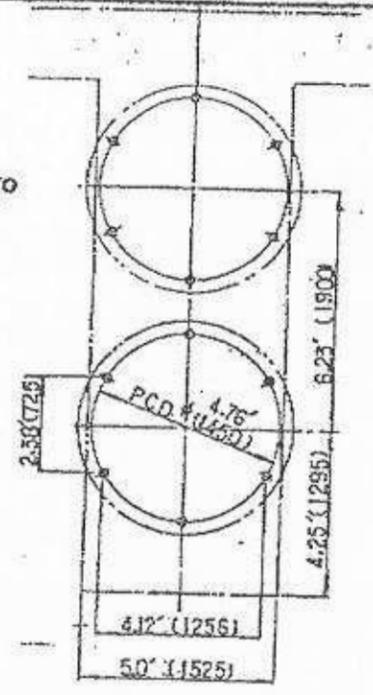
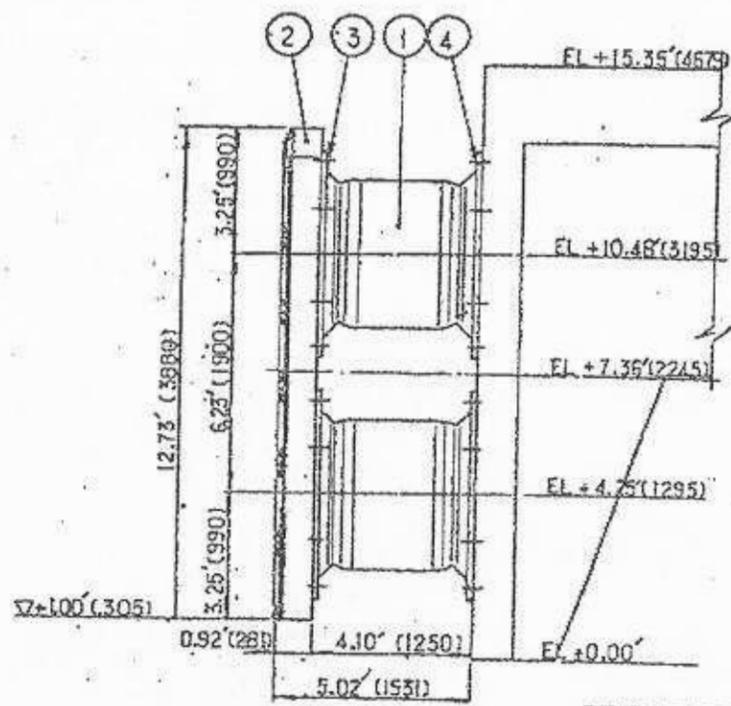
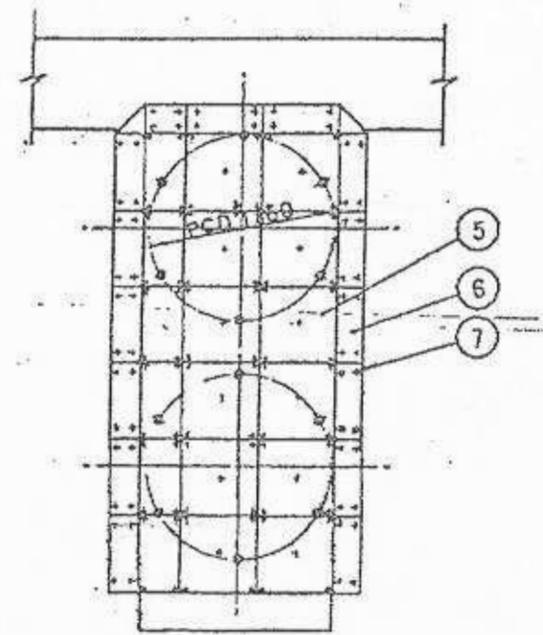
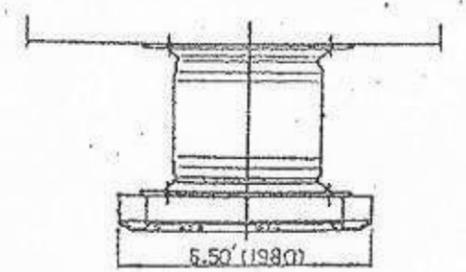
FENDER LOCATION & DETAILS

DAVID VOLKERT & ASSOCIATES
CONSULTING ENGINEERS

DESIGNED	DATE	DETAILED	DATE	TRACED	DATE
CHECKED		CHECKED		CHECKED	
REVISIONS					

SUBJECT SUPER CELL FENDER
SUC (250HKRE)X1X2

THE ANCHOR BOLTS SHOULD BE WELDED TO THE CONCRETE REINFORCING RODS FOR OBTAINING SUFFICIENT PULL-OUT STRENGTH.



ANCHOR POSITION

REFERENCE

UNIT: FEET (MM)

No.	NAME	MATERIAL	QUANTITY	REMARKS	CODE No.
7	FIXING BOLT	ROLLED STEEL (GALVANIZED)	144	W 24°	
6	CORNER PAD	SYNTHETIC RESIN	15	30°	
5	FLAT PAD	SYNTHETIC RESIN	18	30°	
4	SUPER BOLT	STAINLESS	12	W 1 3/4"	
3	BOLT & NUT	ROLLED STEEL (GALVANIZED)	12	W 1 3/4"	
2	FRONTAL FRAME	ROLLED STEEL (PAINTED)	1	1980 x 3880	
1	SUPER CELL FENDER	RUBBER & ROLLED STEEL	2	(RF)	

APPROVED	CHECKED	REVISED

REVISION	DATE	No.	REMARKS

FOR ALABAMA STATE DOCK

DATE AUG. 11 1981 PART No.

APPROVED CHECKED DRAWN

DWG NO. 81F-319 SCALE 1/40

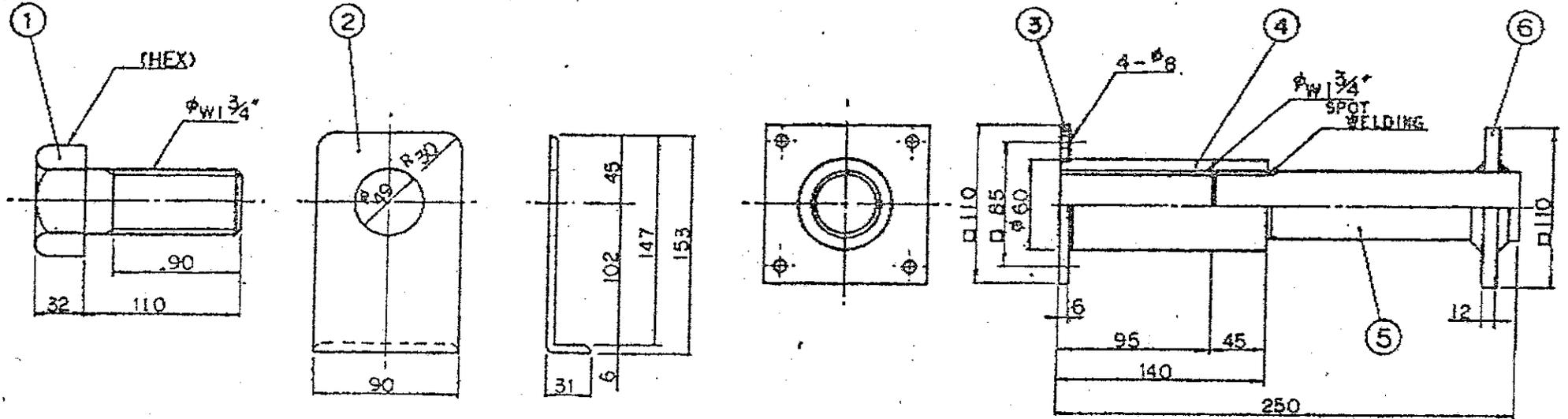
BRIDGESTONE TIRE CO., LTD.

TOKYO JAPAN

SUBJECT

SUPER BOLT

FOR SUC 1250 H



REFERENCE

FOR ALABAMA STATE DOCK

DATE	AUG. 18, 1961	PART No.	
APPROVED	<i>[Signature]</i>	CHECKED	<i>[Signature]</i>
DWG NO. 81F-328		SCALE	—
BRIDGESTONE WIRE CO., LTD.			
TOKYO JAPAN			

NO.	NAME	MATERIAL	QUANTITY	REMARKS	CODE No.	APPROVED	CHECKED	REVISED
6	ANCHOR PLATE	STAINLESS STEEL	1	"				
5	ANCHOR BAR	STAINLESS STEEL	1	"				
4	SLEEVE	STAINLESS STEEL	1	"				
3	FLANGE	STAINLESS STEEL	1	"				
2	WASHER	STAINLESS STEEL	1	"				
1	BOLT	STAINLESS STEEL	1	SUS304				
					ORIGINAL No.	DFP-992		
					ORIGINAL CATALOGUE No.			