




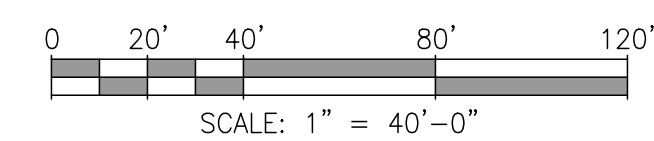
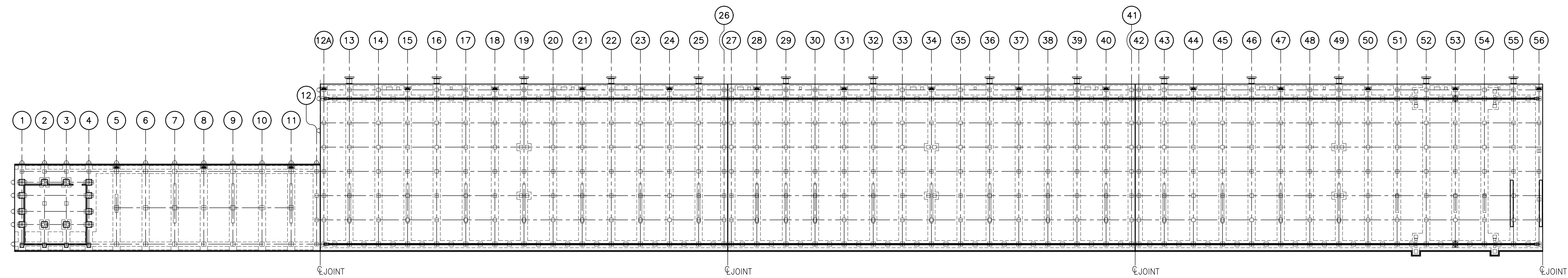
ALABAMA PORT AUTHORITY

McDUFFIE TERMINAL - DOCK II REFURBISHMENT PILE REPAIR PACKAGE

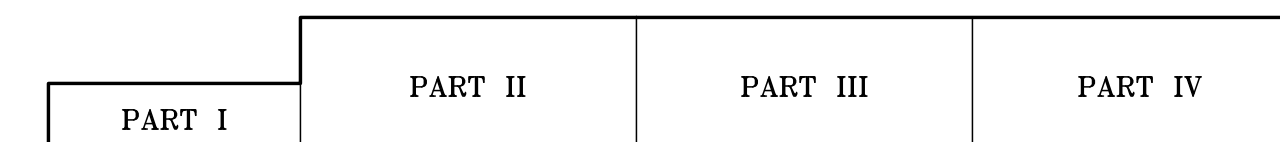
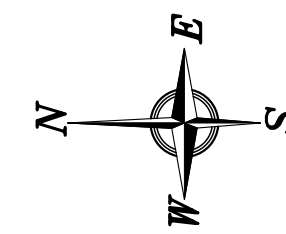
KAY IVEY, GOVERNOR OF ALABAMA
DOUG OTTO, DIRECTOR



NOTES										CLIENT DWG NO:
										McDUFFIE TERMINAL -- DOCK II REFURBISHMENT PILE REPAIR PACKAGE PROJECT COVER SHEET
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										PROJECT NO: 4732 DWG NO: G1 REV: A
	REFERENCE DRAWINGS	NO.	REVISION	DRAWN	CK'D	APPD	DATE	DRAWN: ECW CK'D: MED APPD: RSG DATE: 11-17-25 SCALE: NONE		
		A	ISSUED FOR BID	ECW	MED	RSG	1/30/26			



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



KEY PLAN



CLIENT DWG NO:

McDUFFIE TERMINAL - DOCK II REFURBISHMENT
PILE REPAIR PACKAGE
OVERALL PLAN

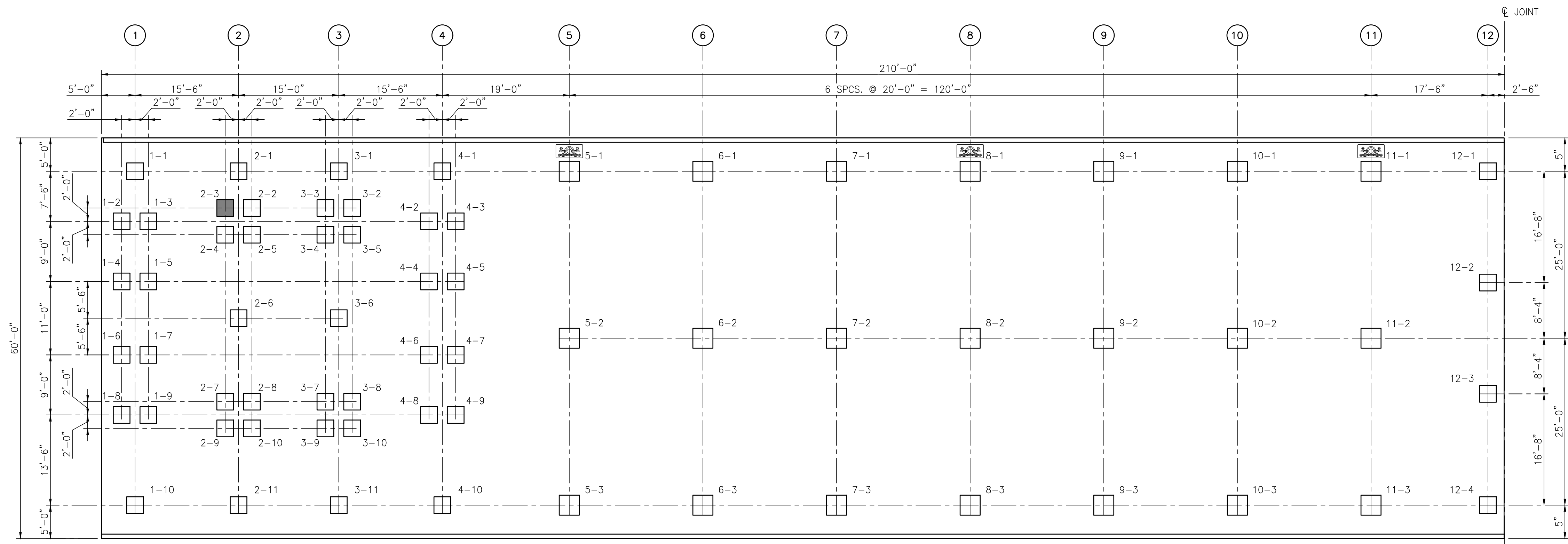
FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4732 DWG NO: G3 REV: A

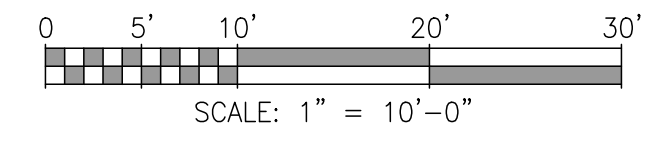


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NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	ECW	MED	RSG	1/30/26

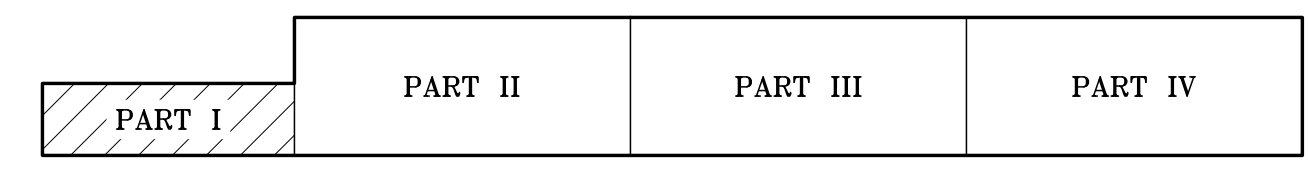
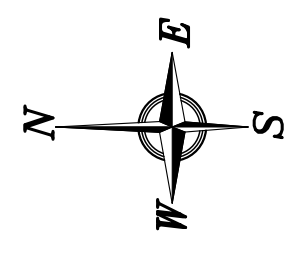


PILE DAMAGE	
Bent	Area (SF)
1	0
2	10
3	0
4	0
5	0
6	0
7	0
8	0
9	0
10	0
11	0
12	0
TOTAL:	10
NO. OF PILES:	1



LEGEND:
 ■ - PILE DAMAGE
 ☁ - FRONT WALL OR DECK SLAB DAMAGE

DOCK II - PARTIAL PLAN 1 OF 4
 1" = 10'-0"



KEY PLAN

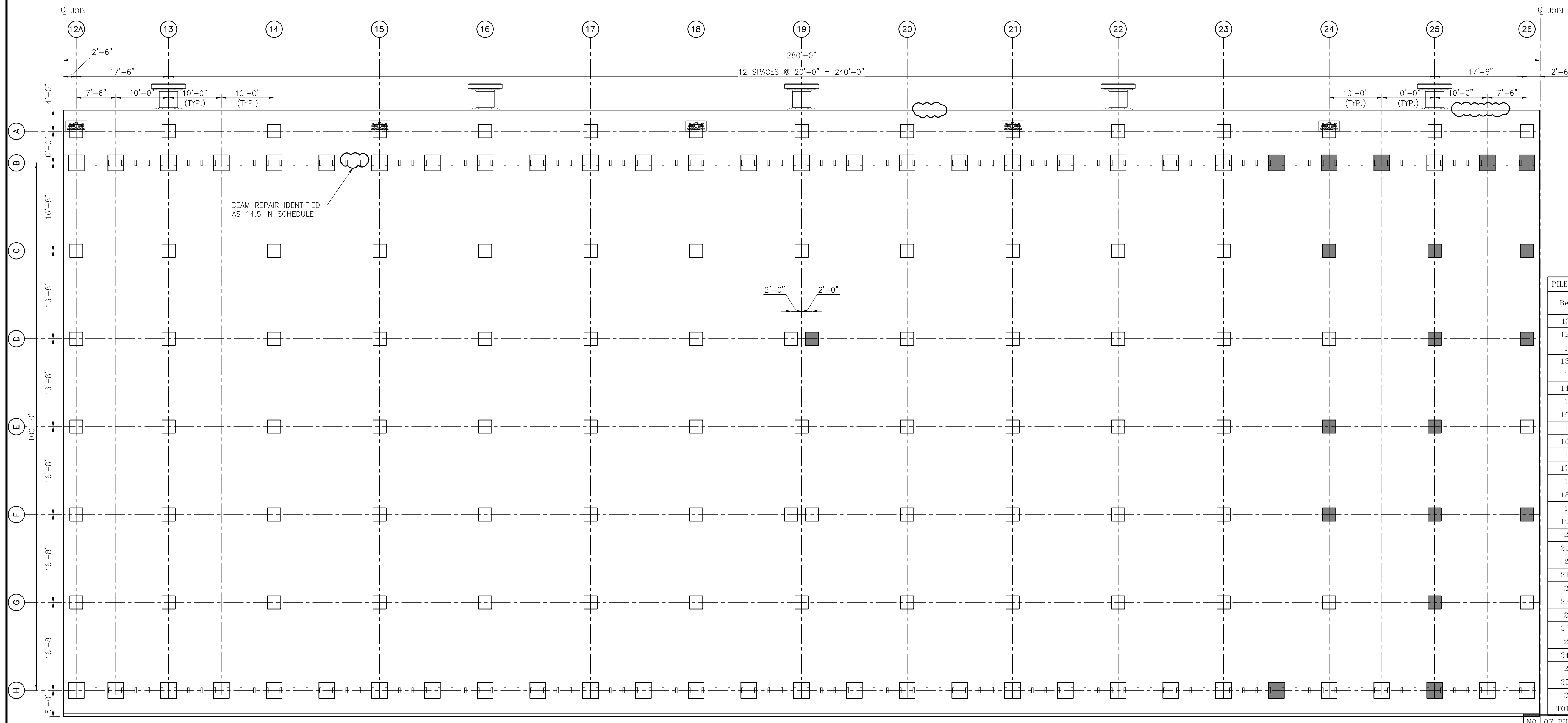


CLIENT DWG NO:
McDUFFIE TERMINAL - DOCK II REFURBISHMENT
PILE REPAIR PACKAGE
PARTIAL PLAN 1 OF 4
 FOR: ALABAMA PORT AUTHORITY
 PROJECT NO: 4732 DWG NO: G4 REV: A

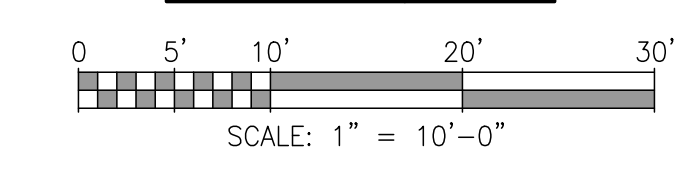


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NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	ECW	MED	RSG	1/30/26
REFERENCE DRAWINGS					



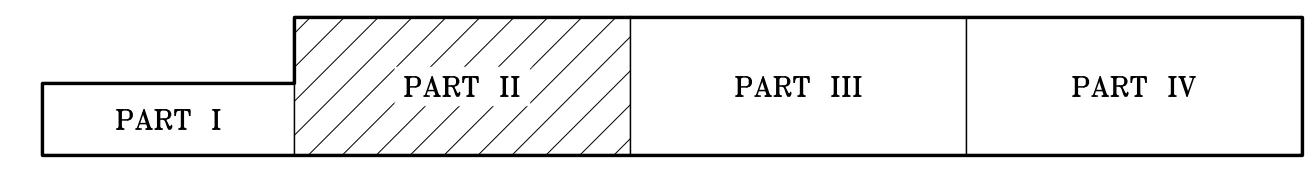
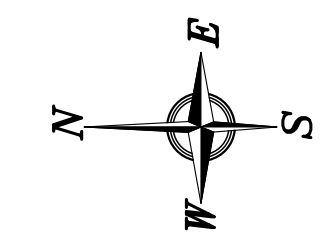
PILE/BEAM DAMAGE		WALL DAMAGE	
Bent	Area (SF)	Bent*	CUT (LF)
12A	0	12A	0
12.5	0	13	0
13	0	14	0
13.5	0	15	0
14	0	16	0
14.5	24	17	0
15	0	18	0
15.5	0	19	0
16	0	20	30
16.5	0	21	0
17	0	22	0
17.5	0	23	0
18	0	24	0
18.5	0	25	27
19	9	26	0
19.5	0		
20	0	TOTAL:	57
20.5	0	*DAMAGE IS SOUTH OF BENT LISTED	
21	0		
21.5	0		
22	0		
22.5	0		
23	0		
23.5	8		
24	30		
24.5	9		
25	20.5		
25.5	6		
26	25		
TOTAL:	131.5		
NO. OF PILES:	19		
NO. OF BEAMS:	1		



LEGEND:

- PILE DAMAGE
- FRONT WALL OR DECK SLAB DAMAGE

DOCK II - PARTIAL PLAN 2 OF 4
1" = 10'-0"




KEY PLAN



NOTES	
1. SEE DRAWING S3 FOR WALL DAMAGE REFERENCE PHOTOS.	

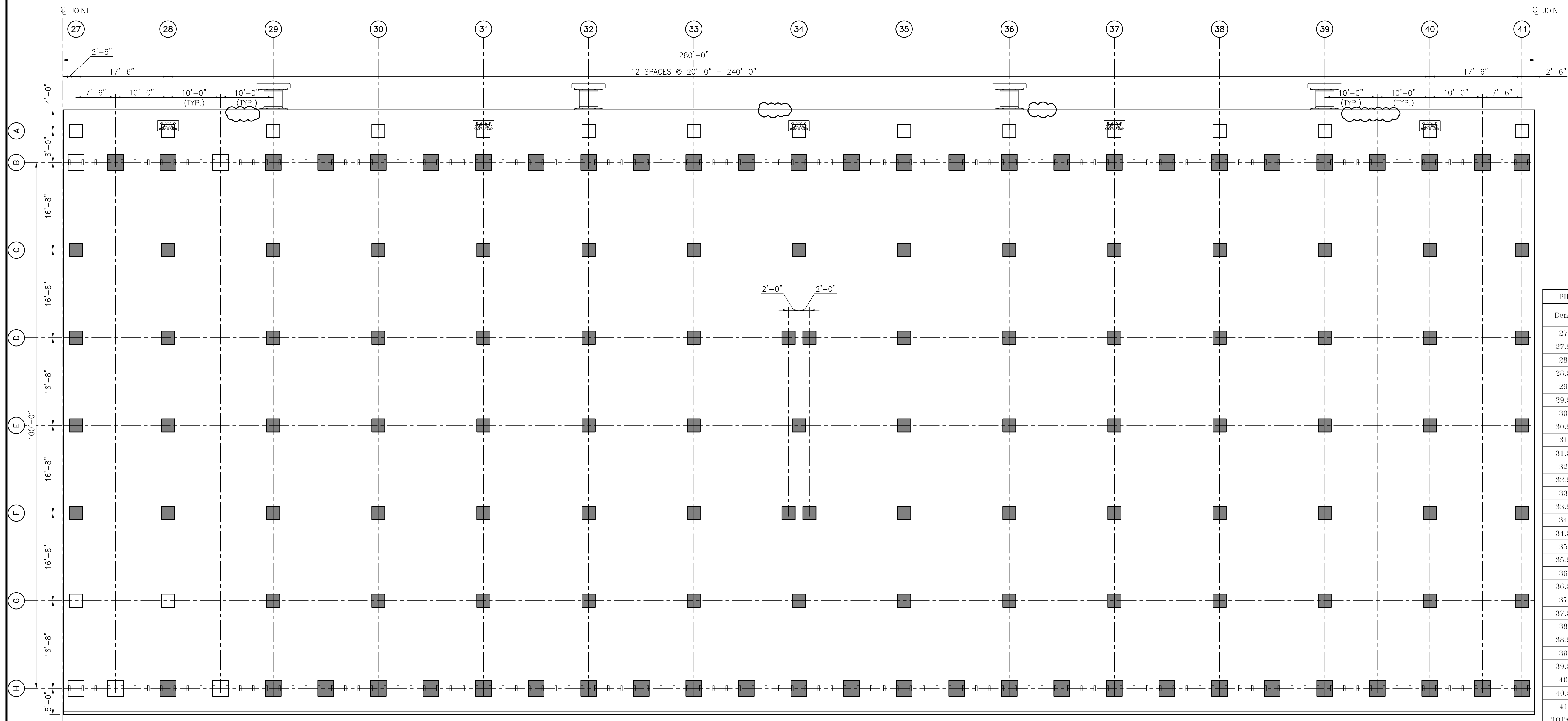
NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	ECW	MED	RSG	1/30/26



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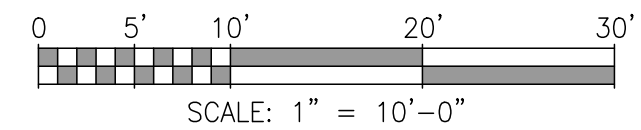
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CLIENT DWG NO:	McDUFFIE TERMINAL -- DOCK II REFURBISHMENT
	PILE REPAIR PACKAGE
	PARTIAL PLAN 2 OF 4
FOR:	ALABAMA PORT AUTHORITY
PROJECT NO:	4732
DWG NO:	G5
REV:	A



PILE DAMAGE		WALL DAMAGE	
Bent	Area (SF)	Bent*	CUT (LF)
27	15	27	0
27.5	18	28	26
28	46	29	0
28.5	2	30	0
29	48	31	0
29.5	7	32	0
30	17	33	26
30.5	11	34	0
31	18	35	0
31.5	18	36	20
32	34	37	0
32.5	3	38	0
33	17	39	26
33.5	2	40	0
34	35	41	0
34.5	0		
35	26	TOTAL:	98
35.5	11		
36	26		
36.5	5		
37	25		
37.5	13		
38	24		
38.5	11		
39	25		
39.5	14		
40	38		
40.5	18		
41	30		
TOTAL:	557		
NO. OF PILES:	128		

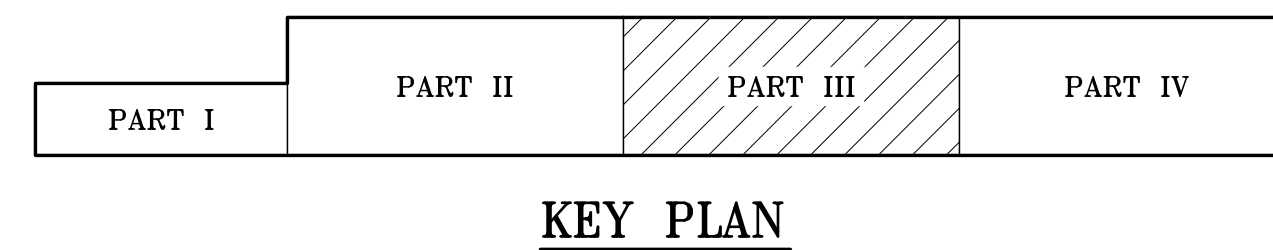
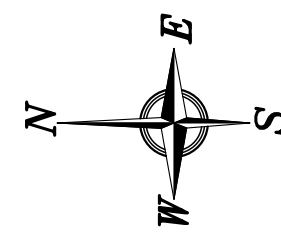
*DAMAGE IS SOUTH OF BENT LISTED



LEGEND:

- - PILE DAMAGE
- ☁ - FRONT WALL OR DECK SLAB DAMAGE

DOCK II - PARTIAL PLAN 3 OF 4
1" = 10'-0"



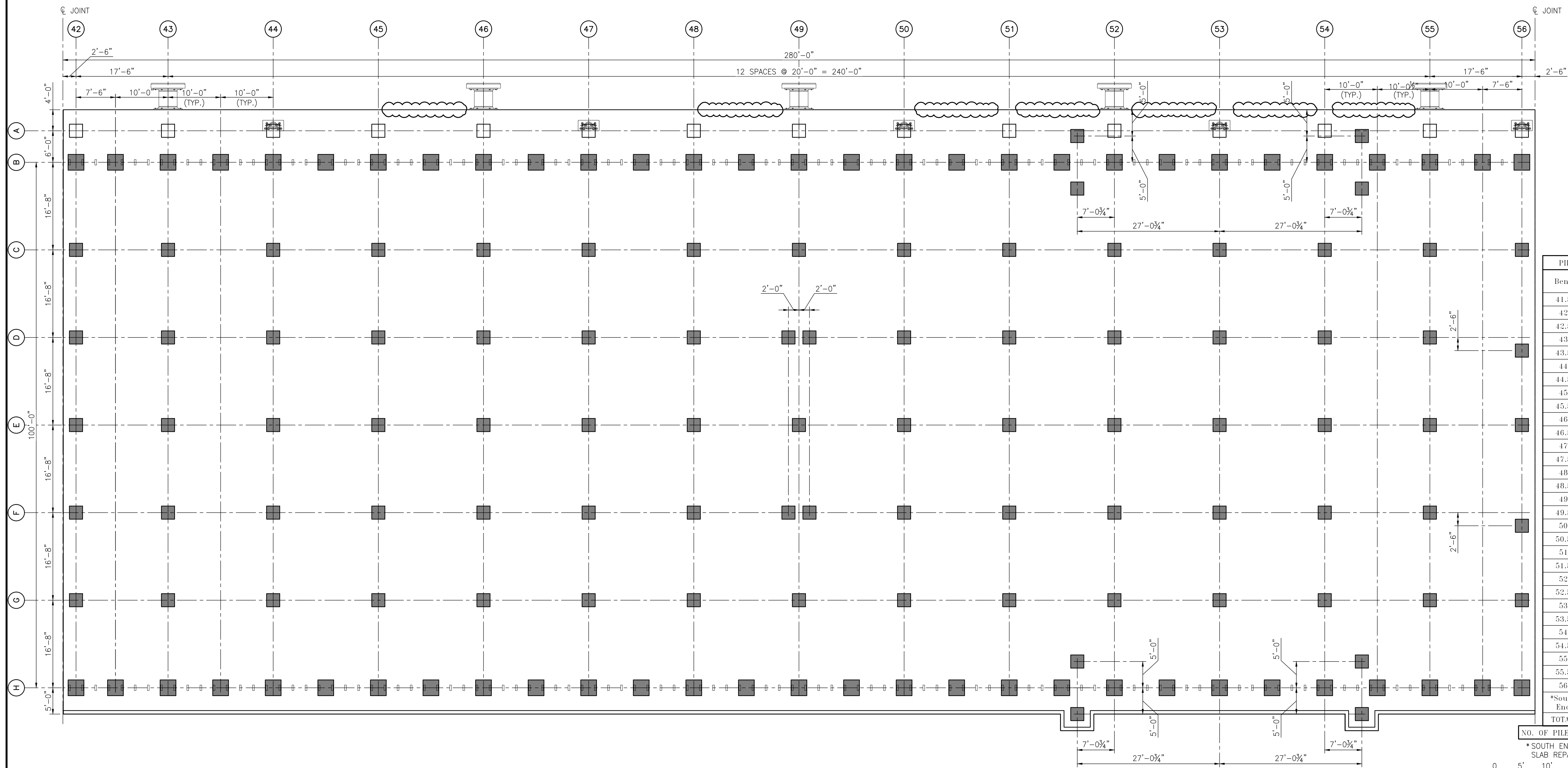
NOTES	
1. SEE DRAWING S3 FOR WALL DAMAGE REFERENCE PHOTOS.	

NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	ECW	MED	RSG	1/30/26

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CLIENT DWG NO:	McDUFFIE TERMINAL -- DOCK II REFURBISHMENT
	PILE REPAIR PACKAGE
	PARTIAL PLAN 3 OF 4
FOR:	ALABAMA PORT AUTHORITY
PROJECT NO:	4732
DWG NO:	G6
REV:	A



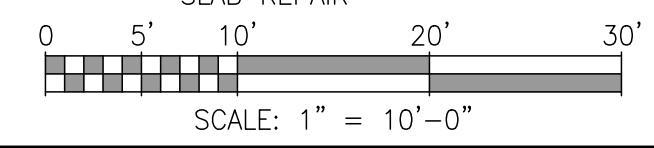
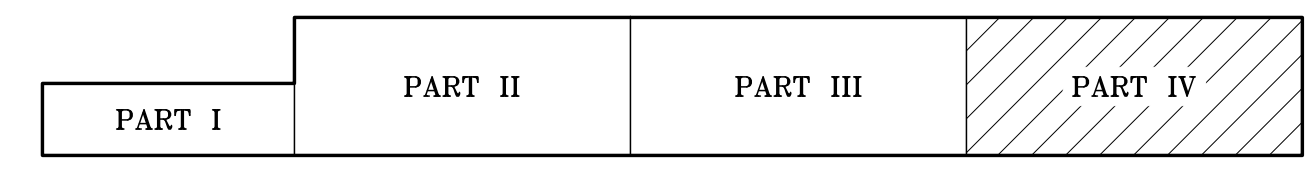
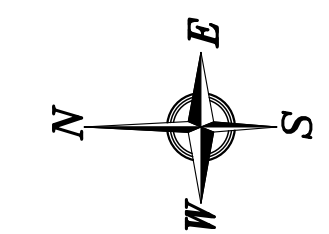
PILE DAMAGE		WALL DAMAGE	
Bent	Area (SF)	Bent*	CUT (LF)
41.5	0	42	0
42	26	43	0
42.5	18	44	0
43	23	45	35
43.5	30	46	0
44	36	47	0
44.5	30	48	35
45	15	49	0
45.5	3	50	41
46	27	51	39
46.5	17	52	41
47	20	53	41
47.5	10	54	41
48	24	55	0
48.5	0	56	0
49	17		
49.5	5		
50	25		
50.5	4		
51	38		
51.5	16		
52	28		
52.5	30		
53	27		
53.5	17		
54	32		
54.5	6		
55	25		
55.5	23		
56	20		
*South End	52		
TOTAL:	644	TOTAL:	273

NO. OF PILES: 143
 *SOUTH END REPRESENTS SLAB REPAIR

LEGEND:

- - PILE DAMAGE
- ☁ - FRONT WALL OR DECK SLAB DAMAGE

DOCK II - PARTIAL PLAN 4 OF 4
 1" = 10'-0"



NOTES

1. SEE DRAWING S3 FOR WALL DAMAGE REFERENCE PHOTOS.

NO.	REVISION	DATE	DRAWN	CK'D	APPD
A	ISSUED FOR BID	1/30/26	ECW	MED	RSG

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CLIENT DWG NO:

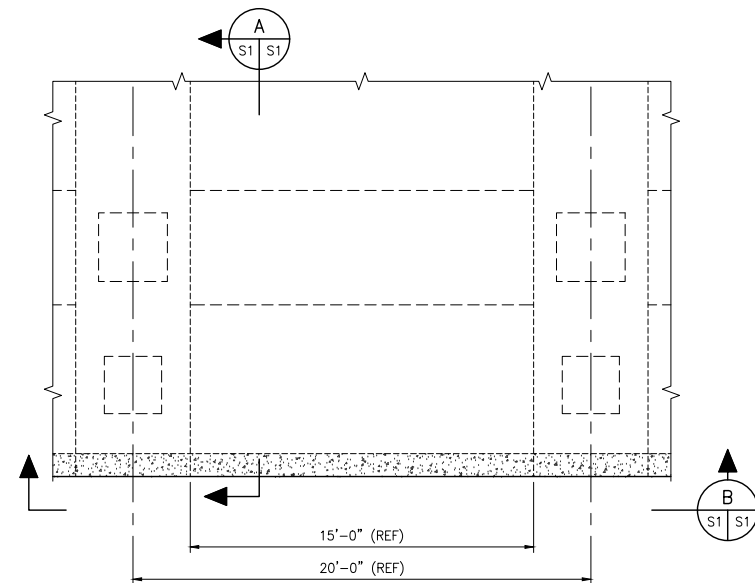
McDUFFIE TERMINAL - DOCK II REFURBISHMENT

PILE REPAIR PACKAGE

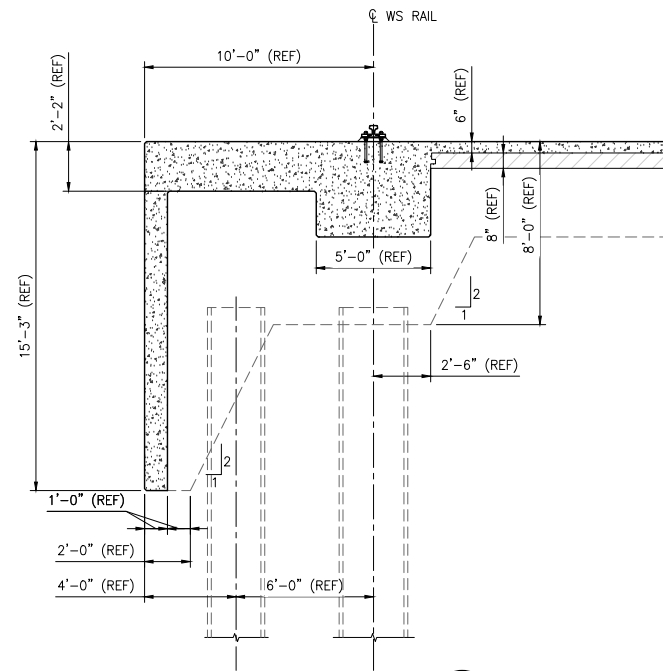
PARTIAL PLAN 4 OF 4

FOR: ALABAMA PORT AUTHORITY

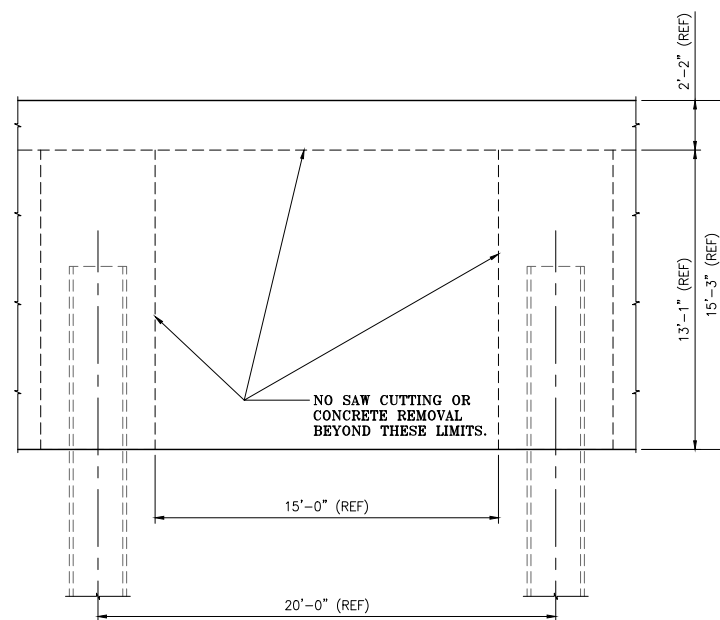
PROJECT NO: 4732 DWG NO: G7 REV: A



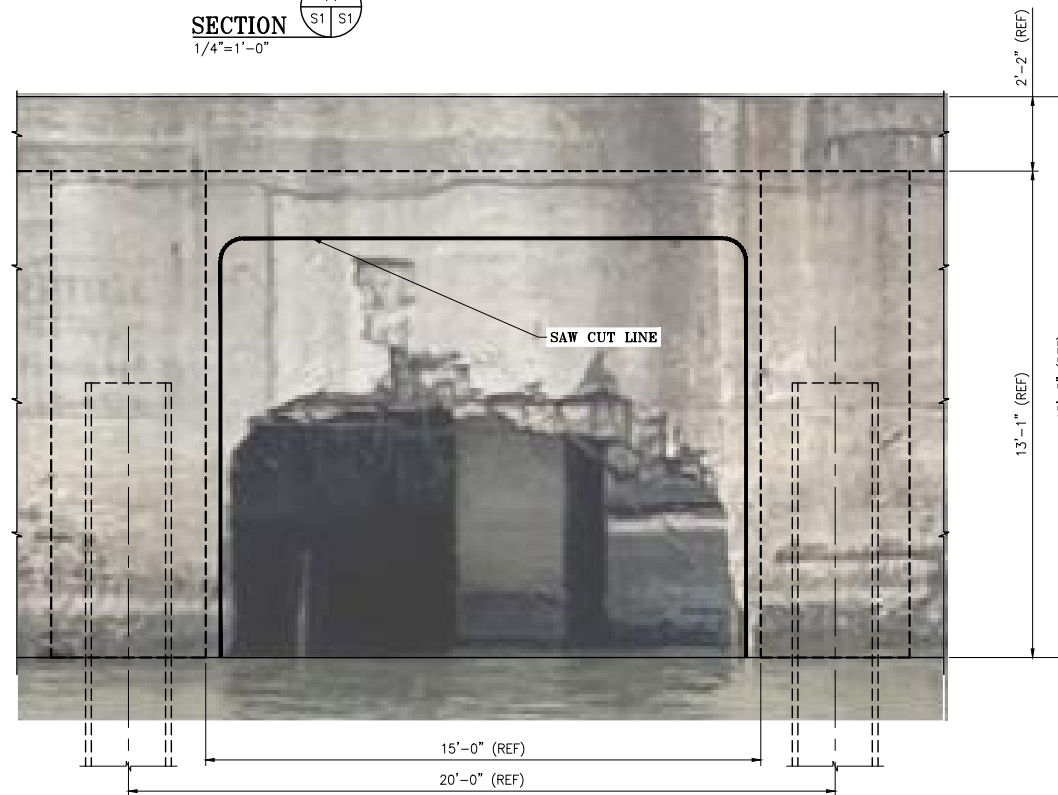
TYPICAL PARTIAL PLAN
1/4"=1'-0"



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



SECTION B
1/4"=1'-0"



WALL REPAIR PROCEDURE W/ IMAGE OVERLAY

N.T.S.
PHOTOGRAPH AT LOCATION 53
APPROXIMATE REPAIR LENGTH - 41 FT

GENERAL NOTES:

- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ALL NECESSARY DETAILS OF THE EXISTING CONSTRUCTION AS RELATIVE TO ITS EFFECT ON HIS WORK. CONTRACTOR SHALL ALSO COORDINATE ALL ACTIVITIES WITH THE OWNER AND SHALL NOT INTERFERE IN ANY WAY WITH APA'S TERMINALS OPERATIONS.
- CONTRACTOR TO DETERMINE THE LIMITS OF DAMAGED OR UNSOUND CONCRETE AT THE LOCATIONS IDENTIFIED ON DRAWINGS G5, G6, AND G7.
- CARE SHALL BE TAKEN TO AVOID DROPPING ANY REMOVED MATERIAL IN THE WATER AND ANY SUCH MATERIALS ENTERING THE WATER SHALL BE IMMEDIATELY REMOVED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- SAW CUT THE EXISTING 12" THICK CONCRETE WALL AVOIDING 90 DEGREE SAW CUT CORNERS. THE CORNERS SHALL BE SMOOTH ROUNDED TRANSITIONS. NO SAW CUTTING IS TO BE PERFORMED BEYOND THE LIMITS SHOWN IN SECTION B OF THIS DRAWING.
- AFTER REMOVAL OF THE CONCRETE, WIRE BRUSH ANY LOOSE RUST OR CORROSION FROM THE STEEL.
- MECHANICALLY PROFILE CLEAN, SOUND CONCRETE TO OBTAIN A CONCRETE SURFACE PROFILE (CSP) EQUAL TO OR GREATER THAN #5 PER ICRI GUIDELINE #310.2R-2013.
- APPLY MCI CONVERTER ONTO ANY EXPOSED STEEL.
- APPLY MAPEI PLANITOP XS VERTICAL AND OVERHEAD REPAIR MORTAR TO THE PREPARED CONCRETE SURFACES IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. BUILD UP TO BE 1" MINIMUM.
- APPLY MCI 20/20 OVER THE ENTIRE REPAIR AREA.



CLIENT DWG NO:
McDUFFIE TERMINAL - DOCK II REFURBISHMENT
PILE REPAIR PACKAGE
WALL PLAN, SECTIONS, AND DETAILS

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4732 DWG NO: S2 REV: A



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DRAWN: ECW CK'D: MED APPD: RSG DATE: 1/30/26 SCALE: 1"=10'-0"



WALL DAMAGE REFERENCE PHOTO @ LOCATION 20
N.T.S.



WALL DAMAGE REFERENCE PHOTO @ LOCATION 25
N.T.S.



WALL DAMAGE REFERENCE PHOTO @ LOCATION 28
N.T.S.



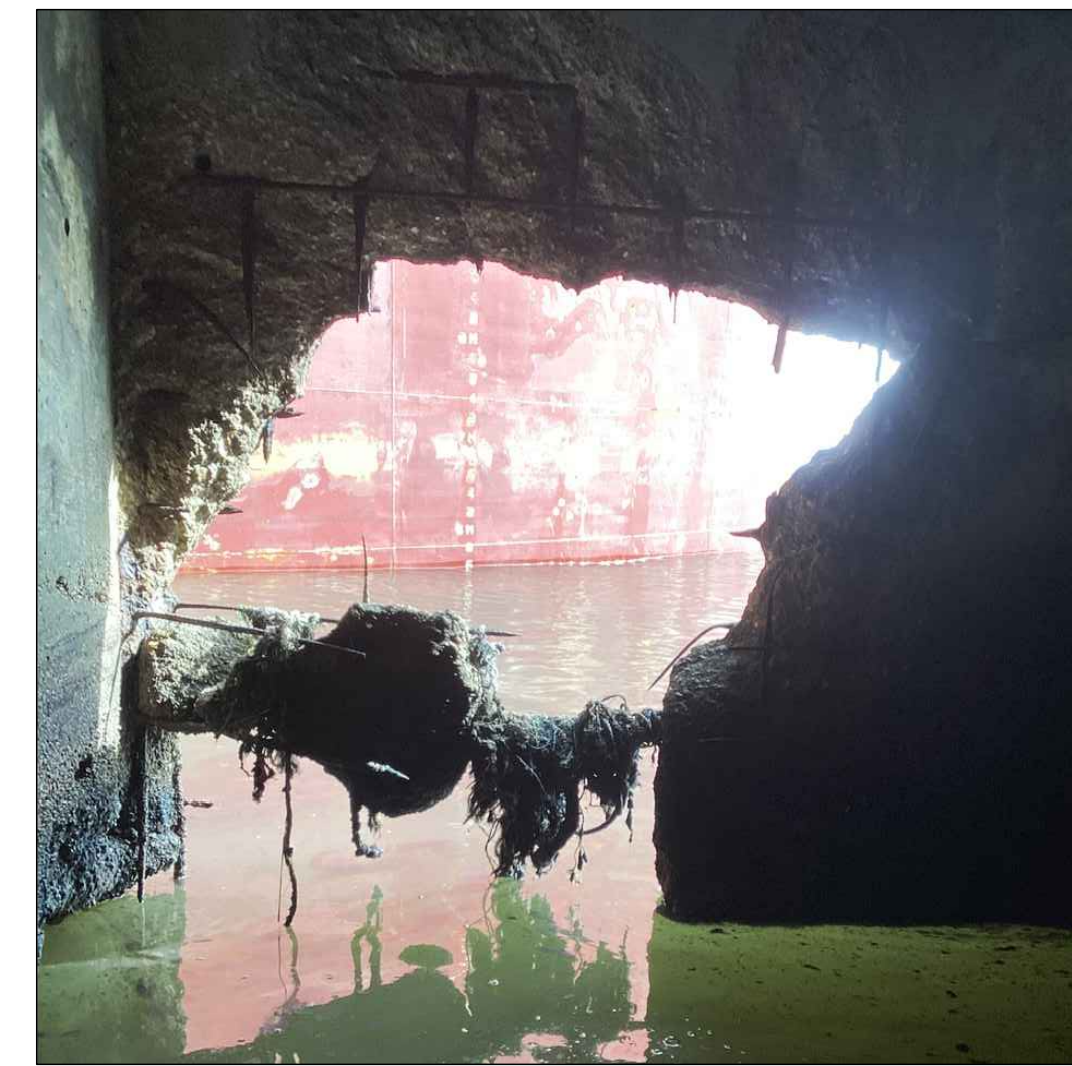
WALL DAMAGE REFERENCE PHOTO @ LOCATION 33
N.T.S.



WALL DAMAGE REFERENCE PHOTO @ LOCATION 36
N.T.S.



WALL DAMAGE REFERENCE PHOTO @ LOCATION 39
N.T.S.



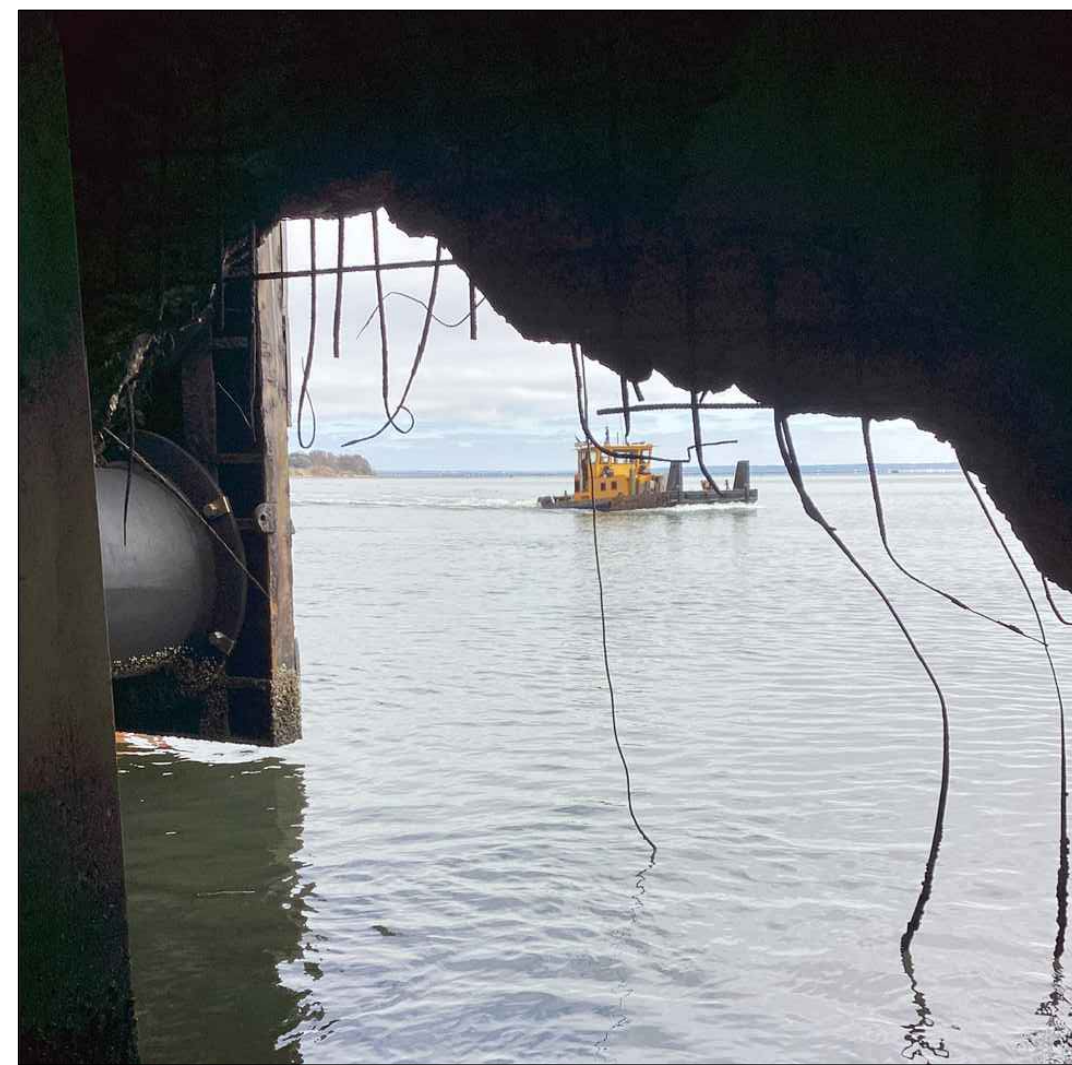
WALL DAMAGE REFERENCE PHOTO @ LOCATION 48
N.T.S.



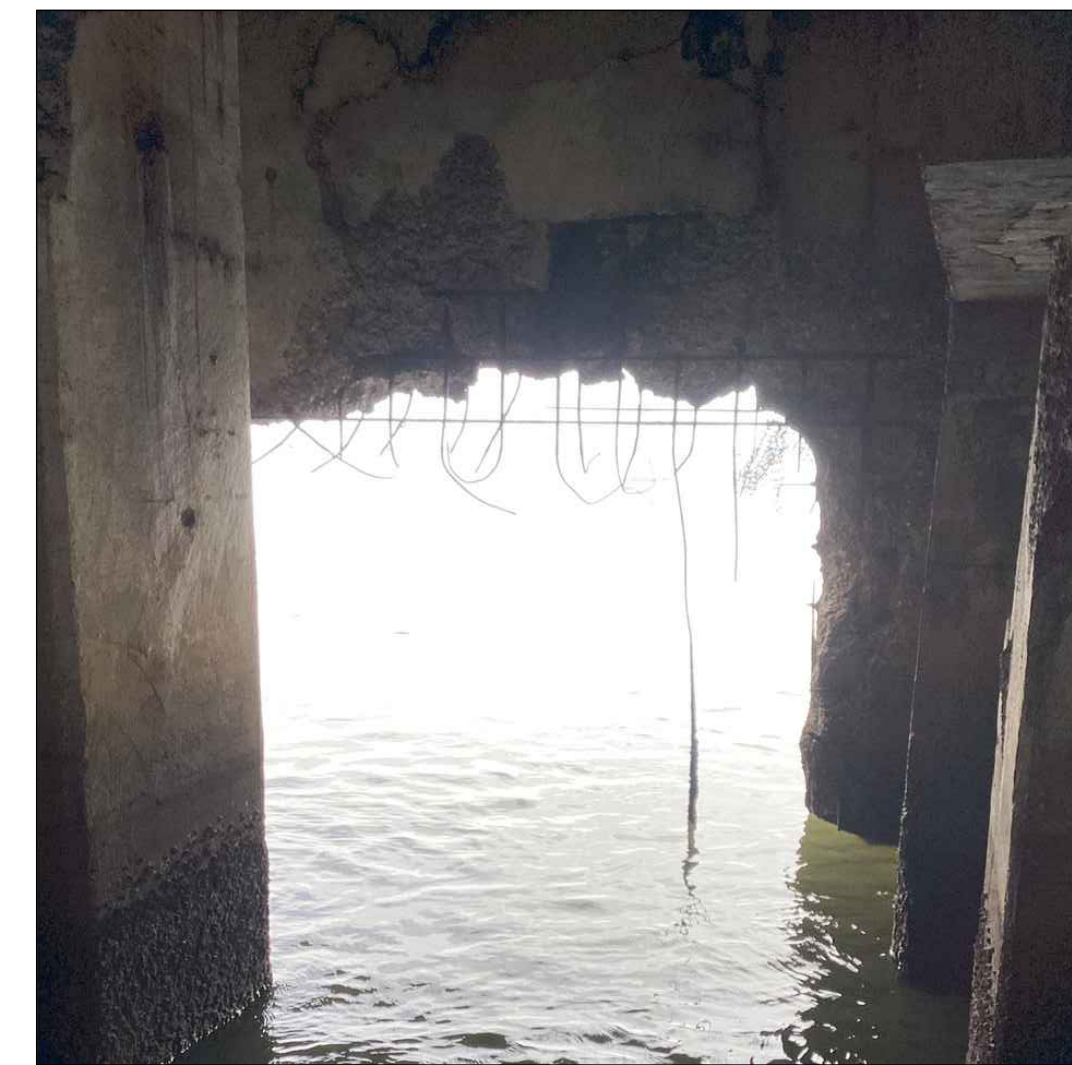
WALL DAMAGE REFERENCE PHOTO @ LOCATION 50
N.T.S.



WALL DAMAGE REFERENCE PHOTO @ LOCATION 51
N.T.S.



WALL DAMAGE REFERENCE PHOTO @ LOCATION 52
N.T.S.



WALL DAMAGE REFERENCE PHOTO @ LOCATION 53
N.T.S.



WALL DAMAGE REFERENCE PHOTO @ LOCATION 54
N.T.S.

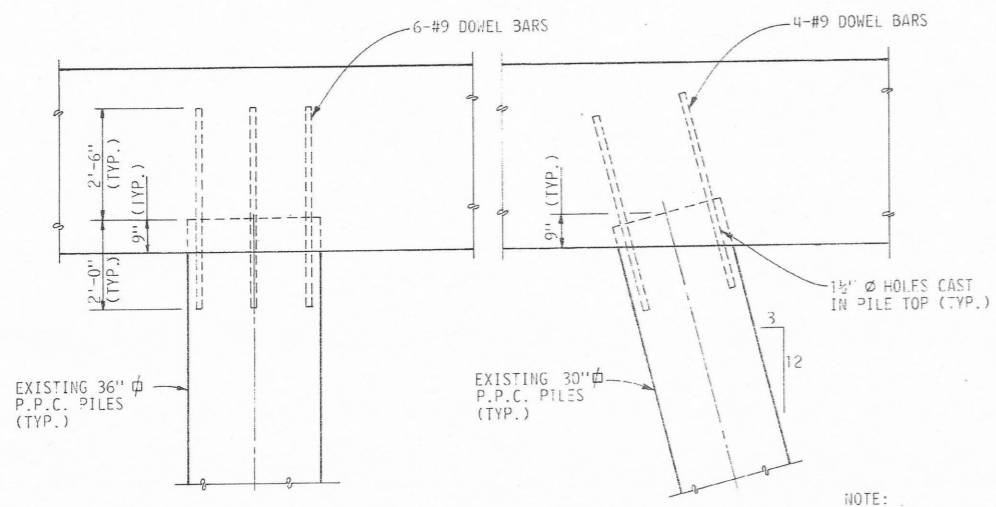


NOTES
1. SEE PARTIAL PLAN DRAWINGS G5, G6, AND G7 FOR REFERENCE PHOTO LOCATIONS.

REFERENCE DRAWINGS	NO.	REVISION	DRAWN	CK'D	APPD	DATE
	A	ISSUED FOR BID	ECW	MED	RSG	1/30/26

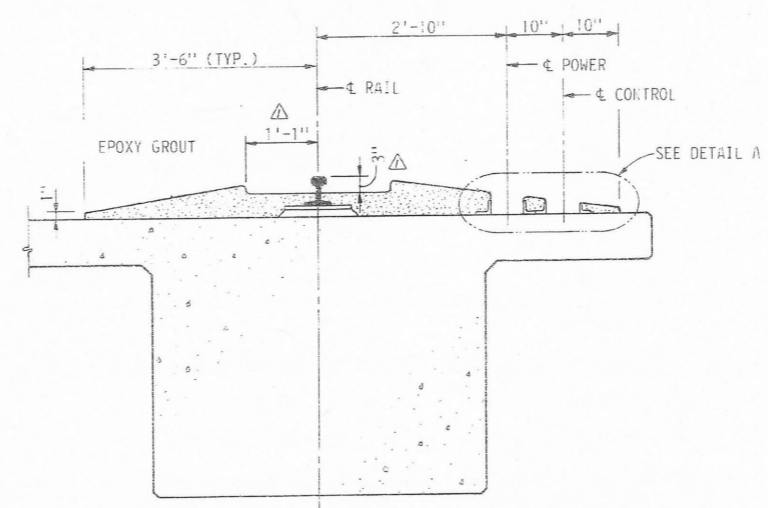
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CLIENT DWG NO:	McDUFFIE TERMINAL -- DOCK II REFURBISHMENT
	PILE REPAIR PACKAGE
	WALL DAMAGE REFERENCE PHOTOS
FOR:	ALABAMA PORT AUTHORITY
PROJECT NO: 4732	DWG NO: S3
REV:	A

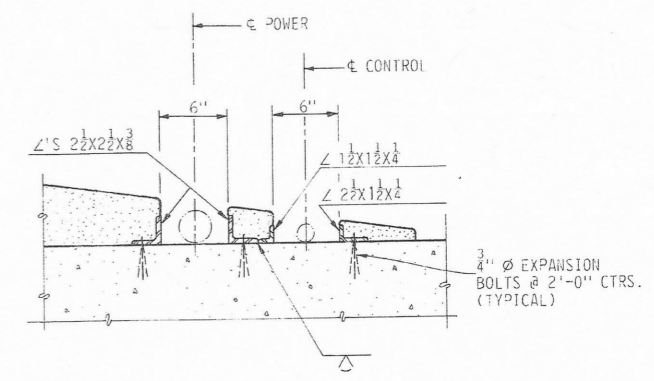


PILE DOWEL DETAIL

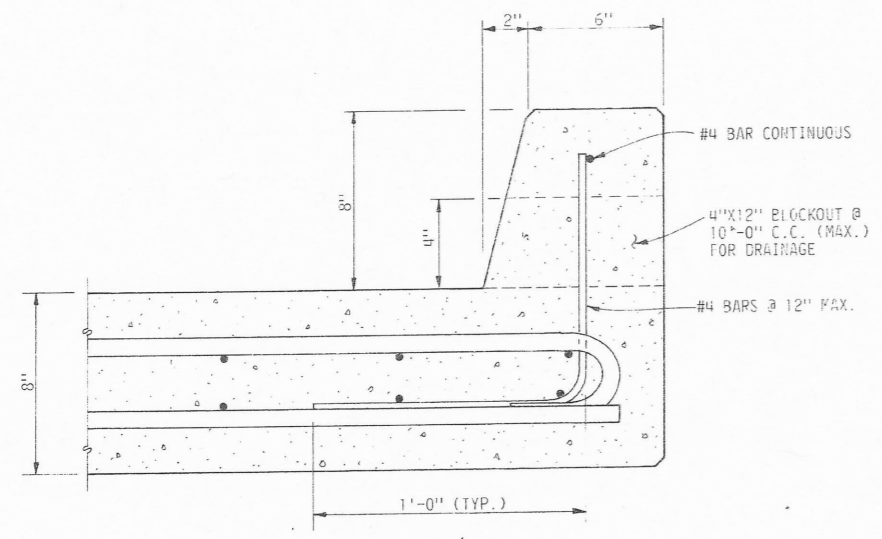
NOTE:
EPOXY GROUT IS TO BE USED IN SETTING DOWEL RODS IN HOLES.



RAIL RAMP DETAIL



DETAIL A



TYPICAL DOCK CURB DETAIL

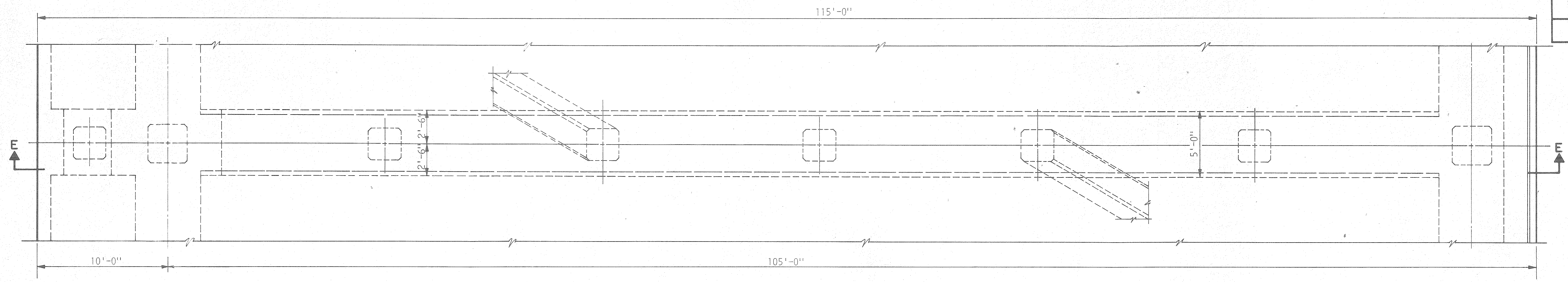
THE INDUSTRIAL DEVELOPMENT BOARD OF THE CITY OF MOBILE, ALABAMA (ALABAMA STATE DOCKS DEPARTMENT PROJECT)

MISCELLANEOUS DETAILS

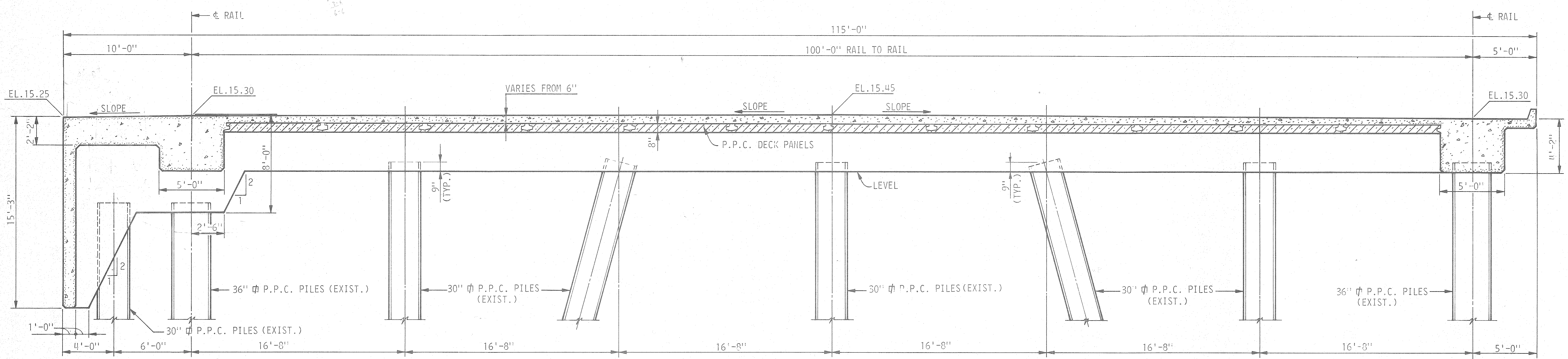
REFERENCE

DAVID VOLKERT & ASSOCIATES
CONSULTING ENGINEERS

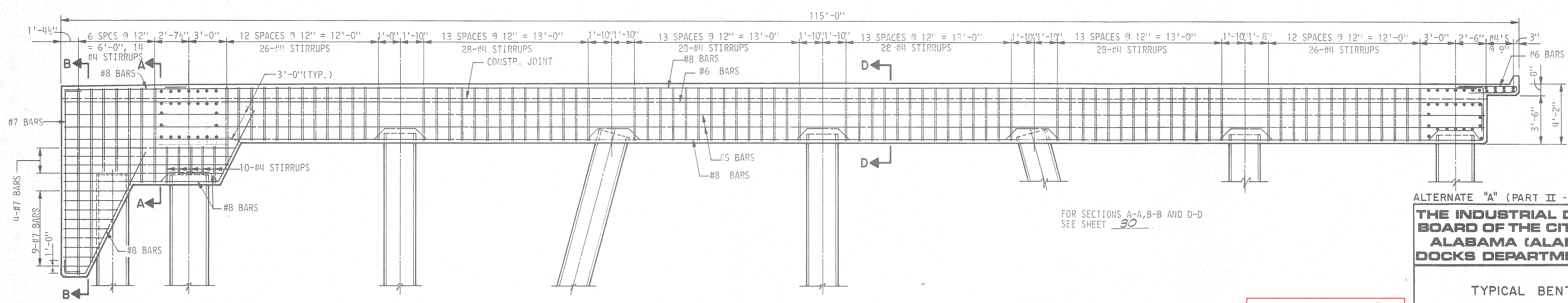
DESIGNED	P. K. J.	DETAILED	C. A. G.	TRACED
CHECKED	P. K. J.	CHECKED	P. K. J.	CHECKED
REVISIONS		DATE		



PLAN



ELEVATION



SECTION E-E

FOR SECTIONS A-A, B-B AND D-D SEE SHEET 30

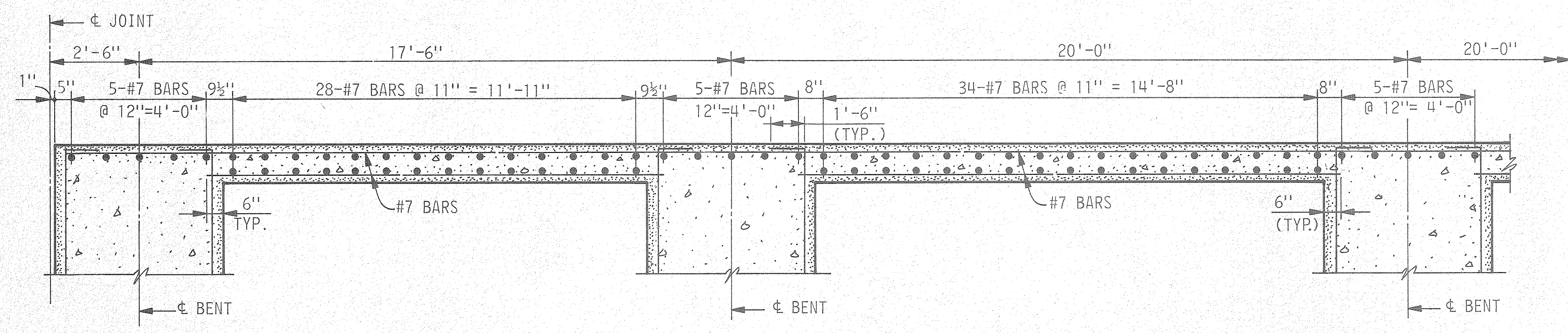
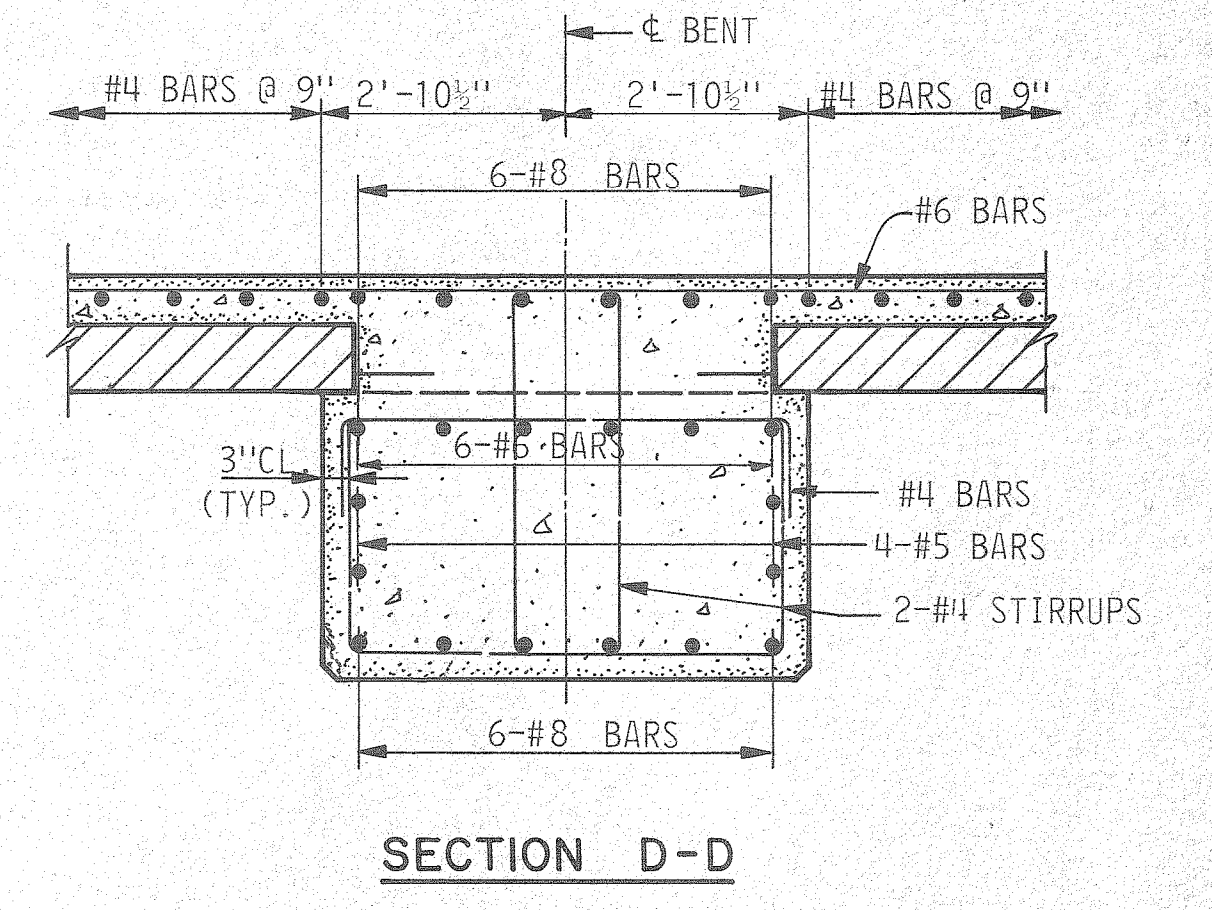
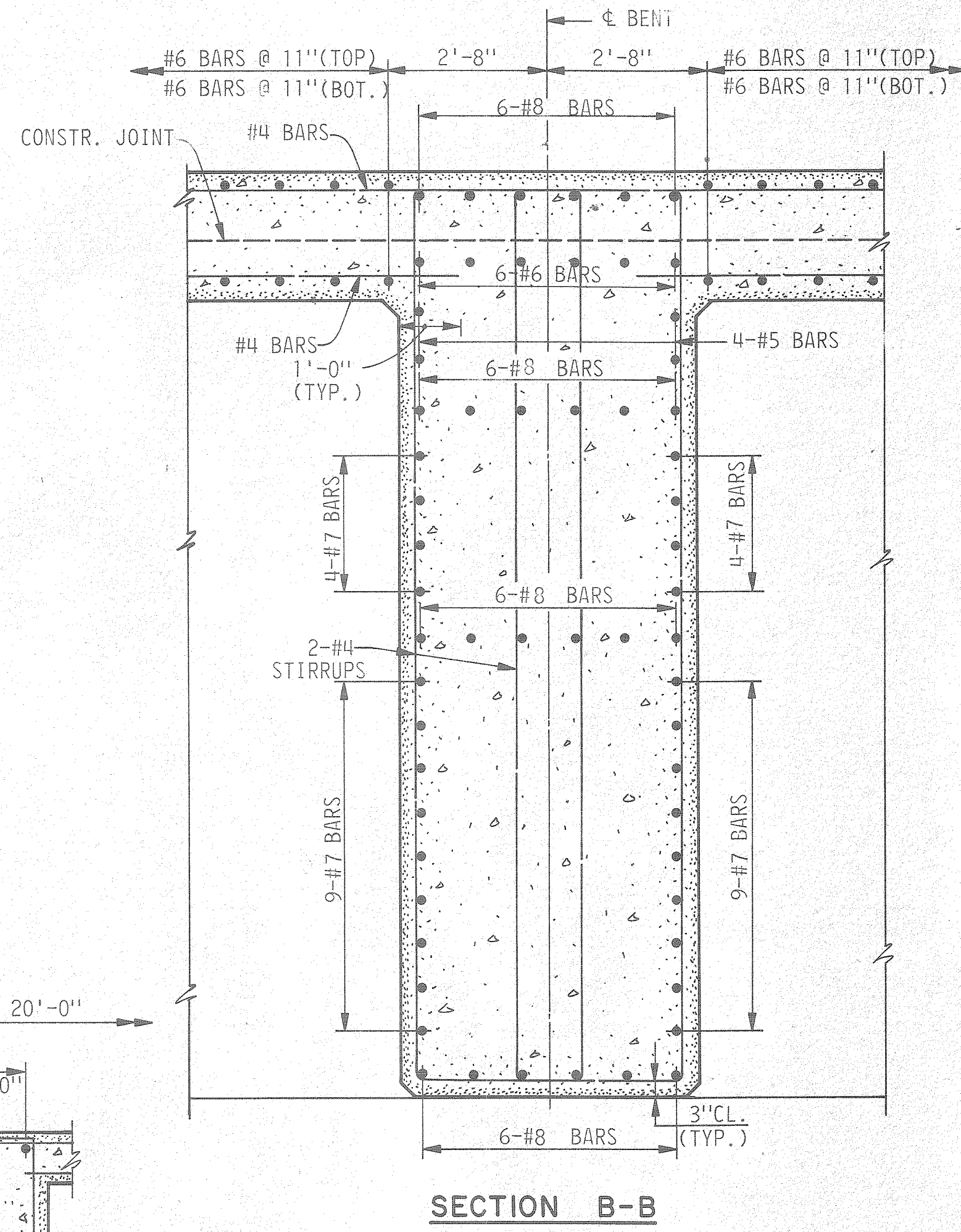
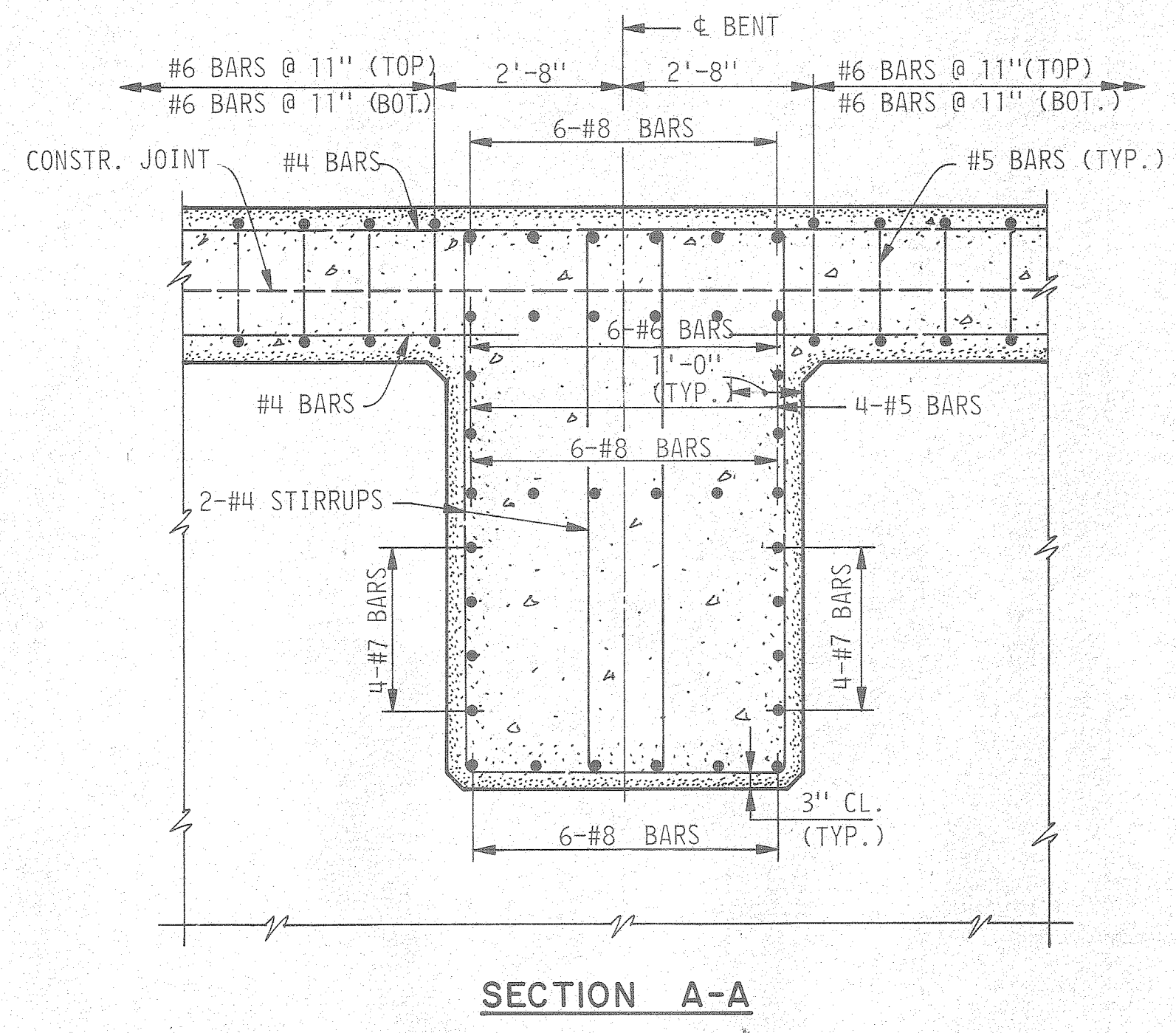
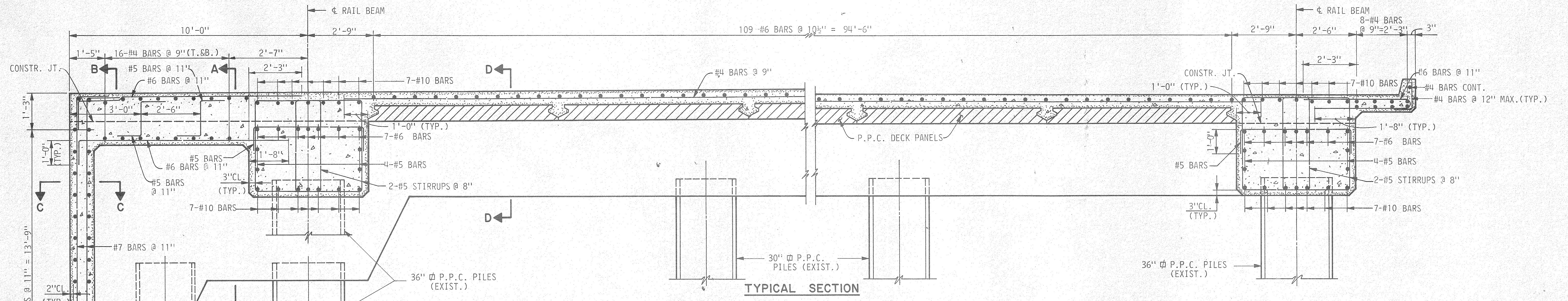
ALTERNATE "A" (PART II - IV)
THE INDUSTRIAL DEVELOPMENT BOARD OF THE CITY OF MOBILE, ALABAMA (ALABAMA STATE DOCKS DEPARTMENT PROJECT)

TYPICAL BENT DETAILS

REFERENCE

DAVID VOLKERT & ASSOCIATES CONSULTING ENGINEERS

DESIGNED	P.K.J.	DETAILED	G.G.M.	TRACED
CHECKED		CHECKED	P.K.J.	CHECKED
REVISIONS	DATE			



PLAN SECTION C-C

REFERENCE

ALTERNATE "A" (PART II-IV)
THE INDUSTRIAL DEVELOPMENT BOARD OF THE CITY OF MOBILE, ALABAMA (ALABAMA STATE DOCKS DEPARTMENT PROJECT)

TYP. BENT & RAIL BEAM SECTIONS

SHEET 1 OF 2

DAVID VOLKERT & ASSOCIATES
 CONSULTING ENGINEERS

DESIGNED	P.K.J.	DETAILED	G.C.M.	TRACED
CHECKED		CHECKED	P.K.J.	CHECKED
DATE				