ALABAMA
PORT AUTHORITY
PORT OF MOBILE

APMT PHASE IV DEVELOPMENT
DEMOLITION PACKAGE

KAY IVEY, GOVERNOR OF ALABAMA
JOHN C. DRISCOLL, DIRECTOR

APTIM
PORT SERVICES, LLC

MAY 2022

DRAWING INDEX

DWG. #	DWG. TITLE
G1	PROJECT COVER SHEET & DRAWING INDEX
G2	PROJECT VICINITY MAP & SITE LOCATION PLAN
G3	HYDROGRAPHIC SURVEY
D1	DEMOLITION PLAN & NOTES
D2	DOCK DEMOLITION TYPICAL SECTIONS
D3	TYPICAL SECTIONS AT SHEET PILE WALLS

REFERENCE DRAWINGS

Ore Terminal Main Wharf Project (1952)

Drawing No.	Drawing Title
417B-S1	MAIN WHARF - GENERAL PLAN
417B-S2	MAIN WHARF - PILE PLAN & DETAILS
417B-S3	MAIN WHARF - DECK PLAN I BENTS 1 TO 26
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417B-S12	MAIN WHARF - MISCELLANEOUS DETAILS I
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Installation of New Wharf Piling Project (1998)

Drawing No.	Drawing Title
9866-S1	INSTALLATION OF NEW PILES - WHARF PLAN - BENTS 1 THRU 13
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9866-S6	INSTALLATION OF NEW PILES - SECTIONS, DETAILS & SCHEDULES
9866-S7	INSTALLATION OF NEW PILES - SECTIONS & DETAILS
9866-S8	INSTALLATION OF NEW PILES - EXPANDED PLANS, SECTIONS & DETAILS

NOTES

NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BIDS	LRH	JEJ	RSG	05/04/22

REFERENCE DRAWINGS

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PORT SERVICES, LLC

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DRAWN: LRH | CK'D: JEJ | APPD: RSG | DATE: 03/21/22 | SCALE: NONE

ALABAMA
PORT AUTHORITY
PORT OF MOBILE

ASPA PROJECT NO: 11099 – TASK 1 | ASPA DRAWING NO.

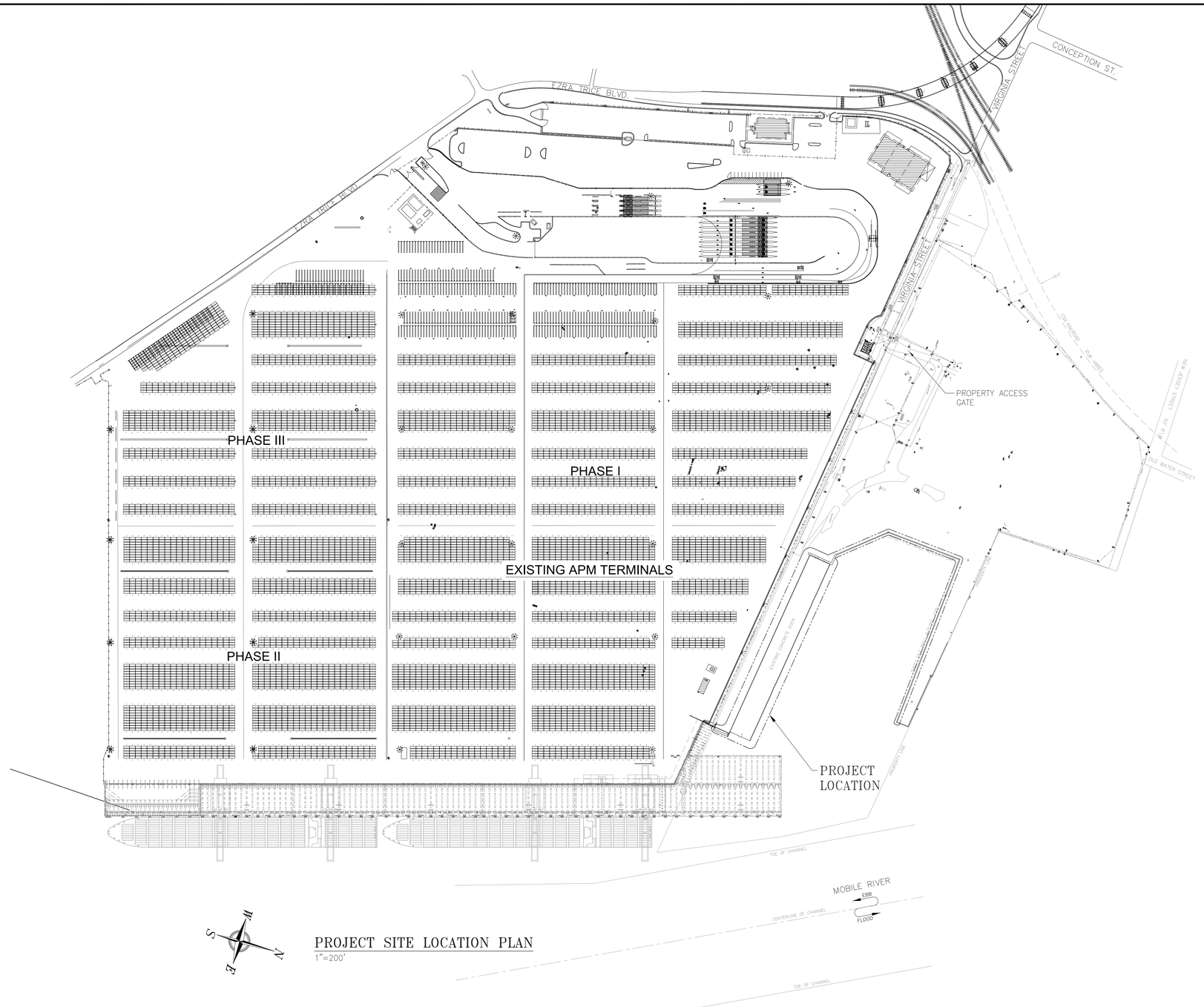
APMT PHASE IV DEVELOPMENT

DEMOLITION PACKAGE

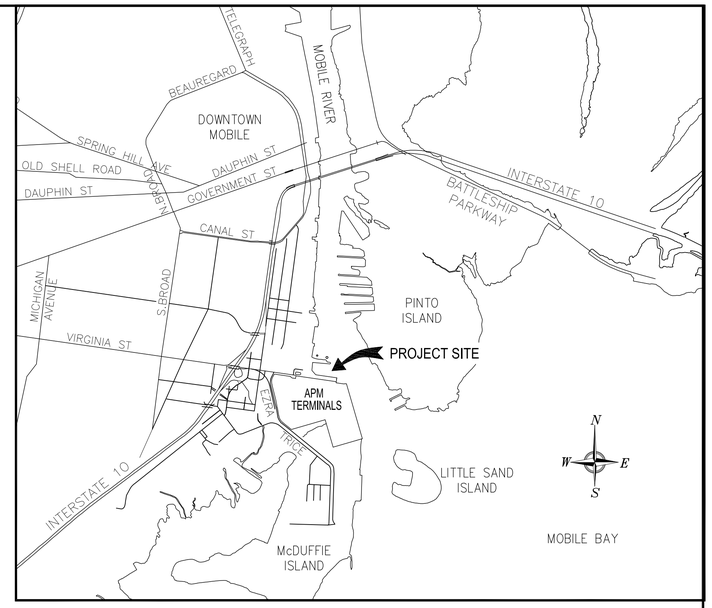
PROJECT COVER SHEET & DRAWING INDEX

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4485.01 | DWG NO: G1 | REV: A



PROJECT SITE LOCATION PLAN
1"=200'



PROJECT VICINITY MAP
N.T.S.

0 100' 200' 400' 600'
SCALE: 1" = 200'-0"

ALABAMA PORT AUTHORITY
PORT OF MOBILE

ASPA PROJECT NO: 11099 – TASK 1 | ASPA DRAWING NO:

NOTES

NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BIDS	LRH	JEJ	RSG	05/04/22

SEE DRAWING G1 FOR LIST OF REFERENCE DRAWINGS

REFERENCE DRAWINGS

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DRAWN: LRH | CK'D: JEJ | APPD: RSG | DATE: 03/22/22 | SCALE: 1"=200'

APMT PHASE IV DEVELOPMENT

DEMOLITION PACKAGE

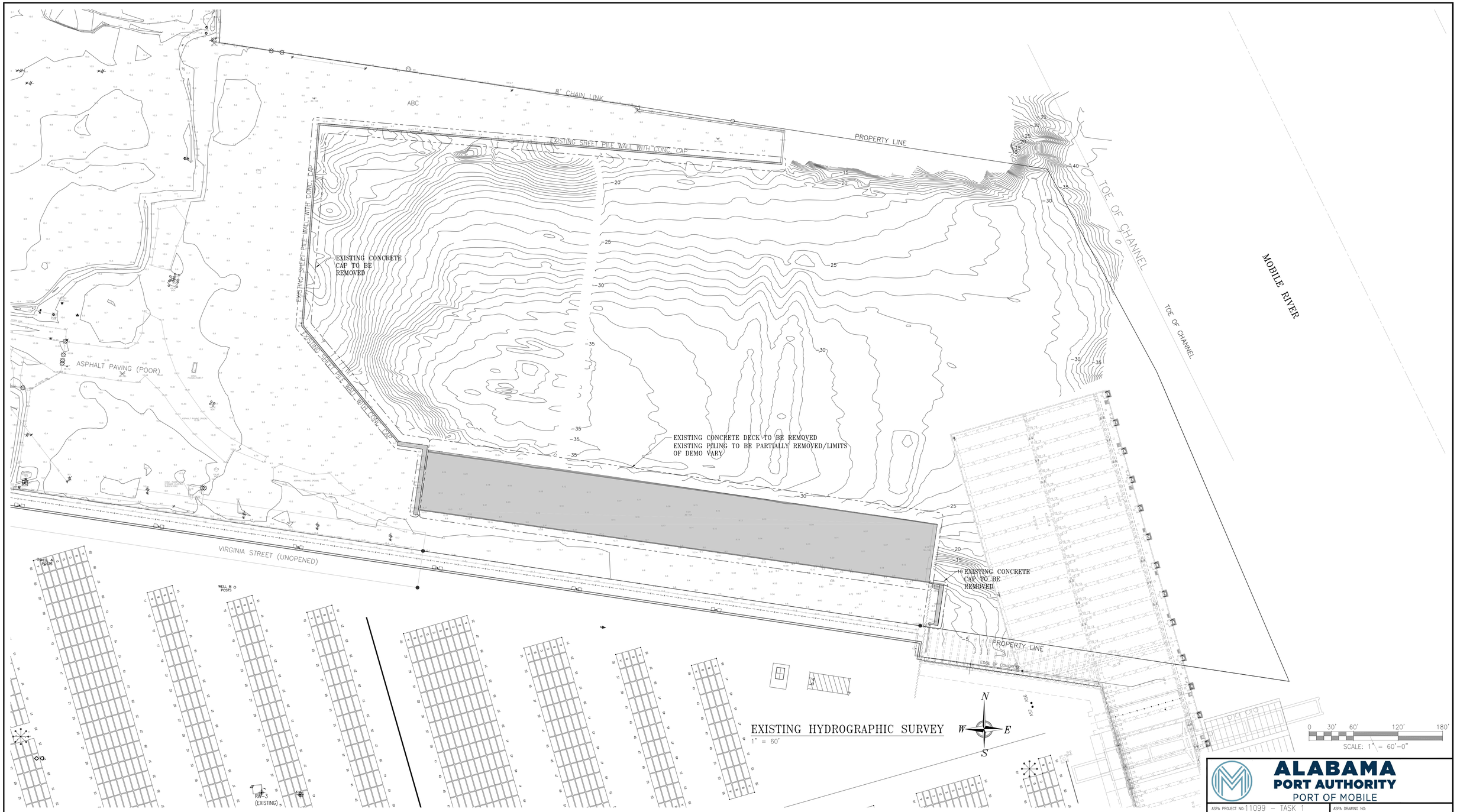
PROJECT SITE LOCATION PLAN & VICINITY MAP

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4485.01 | DWG NO: G2 | REV: A

H:\Project Folders\M4400\4485 – APMT – Phase IV Dock Modifications and Bulkhead Extension\Cad Files\CURRENT\Demolition Package\4485.01 – G2.dwg By: Jamie.Johnson Printed: Wed 04-May-2022 – 09:33AM

Form: CMS-830-00-FM-02104 Aptim ANSI D.dwg



NOTES

1. ONE FOOT CONTOUR INTERVAL BASED ON NAVD, 1988 REFERENCING NGS MONUMENT "B 407", ELEVATION 8.00 NAVD AND ESTABLISHED ON SITE WITH RTK GPS.
2. TO CONVERT NAVD TO MLW, ADD 0.41 FEET TO NAVD.

SEE DRAWING G1 FOR LIST OF REFERENCE DRAWINGS

REFERENCE DRAWINGS

NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BIDS	LRH	JEJ	RSG	05/04/22

ALABAMA PORT AUTHORITY
PORT OF MOBILE

ASPA PROJECT NO: 11099 – TASK 1 | ASPA DRAWING NO:

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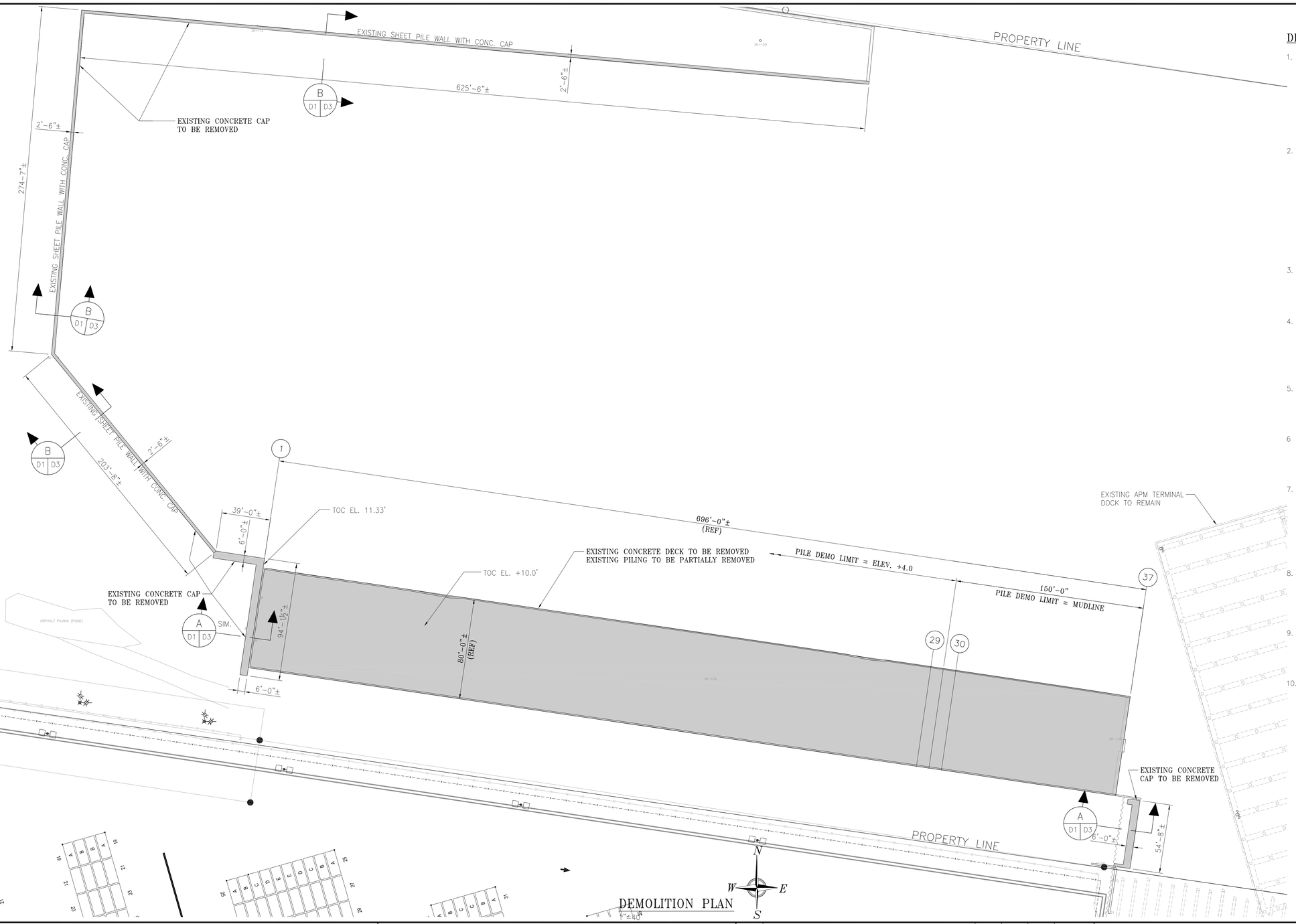
APMT PHASE IV DEVELOPMENT
DEMOLITION PACKAGE
EXISTING HYDROGRAPHIC SURVEY

FOR: ALABAMA PORT AUTHORITY

DRAWN: LRH	CK'D: JEJ	APPD: RSG	DATE: 03/22/22	SCALE: 1"=60'

PROJECT NO: 4485.01 | DWG NO: G3 | REV: A



DEMOLITION NOTES:

1. APTIM HAS ATTEMPTED TO PROVIDE THE CONTRACTOR WITH THE MOST CURRENT "AS BUILT" INFORMATION AS POSSIBLE REGARDING EXISTING SITE CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACTUAL EXISTING CONDITIONS AND HOW THEY AFFECT THE REQUIRED WORK PRIOR TO SUBMITTING HIS BID. ANY DISCREPANCY NOTED BETWEEN ACTUAL CONDITIONS AND THOSE DESCRIBED BY THESE DRAWINGS SHALL BE PROMPTLY BROUGHT TO THE ATTENTION OF THE ENGINEER. NO ADDITIONAL COST ASSOCIATED WITH THE MODIFICATIONS TO THE SCOPE OF WORK REQUIRED DUE TO INACCURATE EXISTING CONDITIONS AS SHOWN BY THESE DRAWINGS WILL BE CONSIDERED UNLESS SAID CONDITIONS HAVE BEEN BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO RECEIVING BIDS.

2. THE WORK INCLUDED UNDER THIS CONTRACT SHALL CONSIST OF FURNISHING ALL LABOR, TOOLS, EQUIPMENT, MATERIAL, SERVICES, AND SUPERVISION NECESSARY FOR THE DEMOLITION, REMOVAL FROM THE SITE, AND PROPER DISPOSAL OF ALL INDICATED STRUCTURES INCLUSIVE OF BUT NOT LIMITED TO ALL PILING, CONCRETE, STEEL FRAMING, TIMBER FRAMING, AND ALL ASSOCIATED CONSTRUCTION THAT EXIST IN THE AREAS DESIGNATED FOR DEMOLITION. REMOVED MATERIALS AS DESIGNATED BY THE OWNER SHALL REMAIN THE PROPERTY OF THE OWNER AND SHALL BE SAFELY STORED AS DIRECTED. MATERIAL SPECIFIED TO BE DISPOSED OF SHALL BECOME THE CONTRACTOR'S PROPERTY AND SHALL BE DISPOSED OF OFF OWNER'S PROPERTY.

   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.

3. APPLICABLE CODES AND STANDARDS

   ANSI. A10.6 (LATEST EDITION) DEMOLITION OPERATIONS–SAFETY REQUIREMENTS

   NATIONAL ASSOCIATION OF DEMOLITION CONTRACTORS DEMOLITION SAFETY MANUAL

4. REQUIRED SUBMITTALS

   THE CONTRACTOR SHALL SUBMIT PROPOSED DEMOLITION AND REMOVAL PROCEDURES TO THE OWNER FOR APPROVAL BEFORE WORK BEGINS. THE DEMOLITION PLAN SHALL INCLUDE PROCEDURES FOR CAREFUL REMOVAL AND DISPOSITION OF ALL MATERIALS AND A DETAILED DESCRIPTION OF METHODS AND EQUIPMENT TO BE USED FOR EACH OPERATION AND OF SEQUENCE OF OPERATIONS.

5. NOTIFICATION OF DEMOLITION AND DISPOSAL

   THE CONTRACTOR SHALL COMPLY WITH FEDERAL, STATE, AND LOCAL HAULING AND DISPOSAL REGULATIONS, FURNISHING TIMELY NOTIFICATION OF THE DEMOLITION WORK TO FEDERAL, STATE, REGIONAL AND LOCAL AUTHORITIES AS REQUIRED.

6 DUST AND DEBRIS CONTROL

   THE CONTRACTOR SHALL PREVENT THE SPREAD OF DUST AND DEBRIS AND AVOID THE CREATION OF A NUISANCE OR HAZARD IN THE SURROUNDING AREA. WATER SPRAY SHALL BE REQUIRED DURING DEMOLITION OPERATIONS WHEN CONDITIONS WARRANT.

7. PROTECTION OF EXISTING STRUCTURES

   TO PROTECT PEDESTRIAN & VEHICULAR TRAFFIC IN AND AROUND THE WORK AREA, TRAFFIC BARRICADES WITH FLASHING LIGHTS SHALL BE USED AS REQUIRED. STRUCTURES, EQUIPMENT, AND OTHER ITEMS IN THE ADJACENT AREA SHALL BE PROTECTED AS REQUIRED DURING DEMOLITION AND REMOVAL WORK. ANY SUCH ITEMS DAMAGED DURING THE COURSE OF THE WORK SHALL BE RESTORED TO THEIR ORIGINAL CONDITION, OR REPLACED. WHERE DEMOLITION AND REMOVAL WORK CAUSE HAZARDOUS CONDITIONS APPROPRIATE BARRIERS AND TEMPORARY COVERINGS SHALL BE USED AS REQUIRED.

8. EXISTING CONSTRUCTION AND OPERATIONS

   IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ALL NECESSARY DETAILS OF THE EXISTING CONSTRUCTION AS RELATIVE TO ITS EFFECTS ON HIS WORK. CONTRACTOR SHALL ALSO COORDINATE ALL ACTIVITIES WITH THE OWNER AND SHALL NOT INTERFERE IN ANY WAY WITH APM TERMINALS OPERATIONS.

9. PILE REMOVAL VERIFICATION

   AS NOTED ON DRAWINGS D1 & D2 IN THE AREAS WHERE THE PILES ARE TO BE REMOVED TO THE MUDLINE THE CONTRACTOR SHALL PERFORM A SUBSURFACE SIDE SCAN SONAR SURVEY FOR VERIFICATION OF PILE REMOVAL.

10. PERMIT REQUIREMENTS

    CONTRACTOR SHALL ABIDE BY THE TERMS OF THE USACE PERMIT. THE PERMIT PLACARD SHALL BE CONSPICUOUSLY DISPLAYED AT THE CONSTRUCTION SITE.

NOTES

SEE DRAWING G1 FOR LIST OF REFERENCE DRAWINGS

REFERENCE DRAWINGS

NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BIDS	LRH	JEJ	RSG	05/04/22

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DRAWN: LRH | CK'D: JEJ | APPD: RSG | DATE: 03/09/22 | SCALE: 1"=40'

ALABAMA PORT AUTHORITY
PORT OF MOBILE

ASPA PROJECT NO: 11099 – TASK 1 | ASPA DRAWING NO:

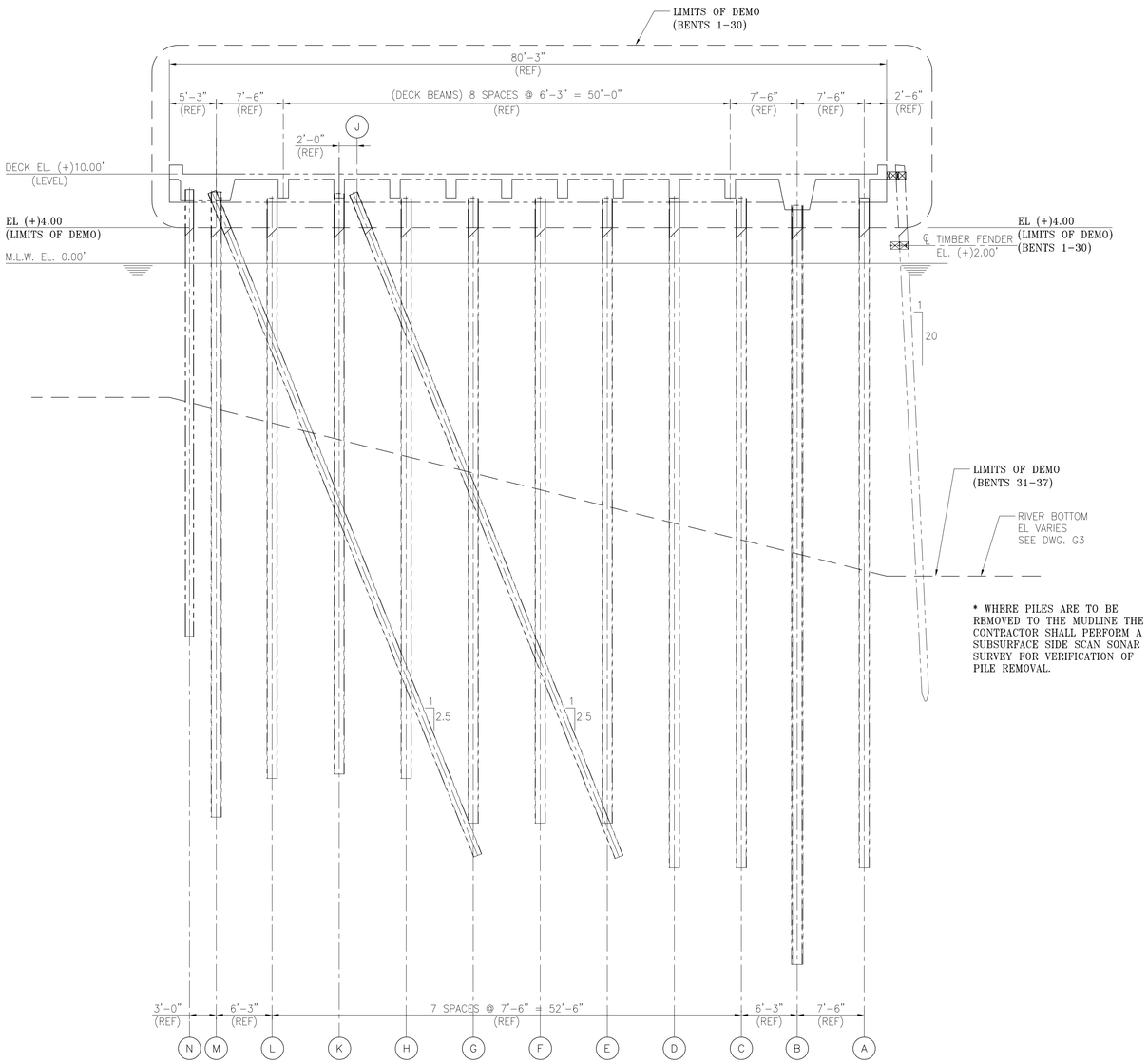
APMT PHASE IV DEVELOPMENT

DEMOLITION PACKAGE

DEMOLITION PLAN & NOTES

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4485.01 | DWG NO: D1 | REV: A

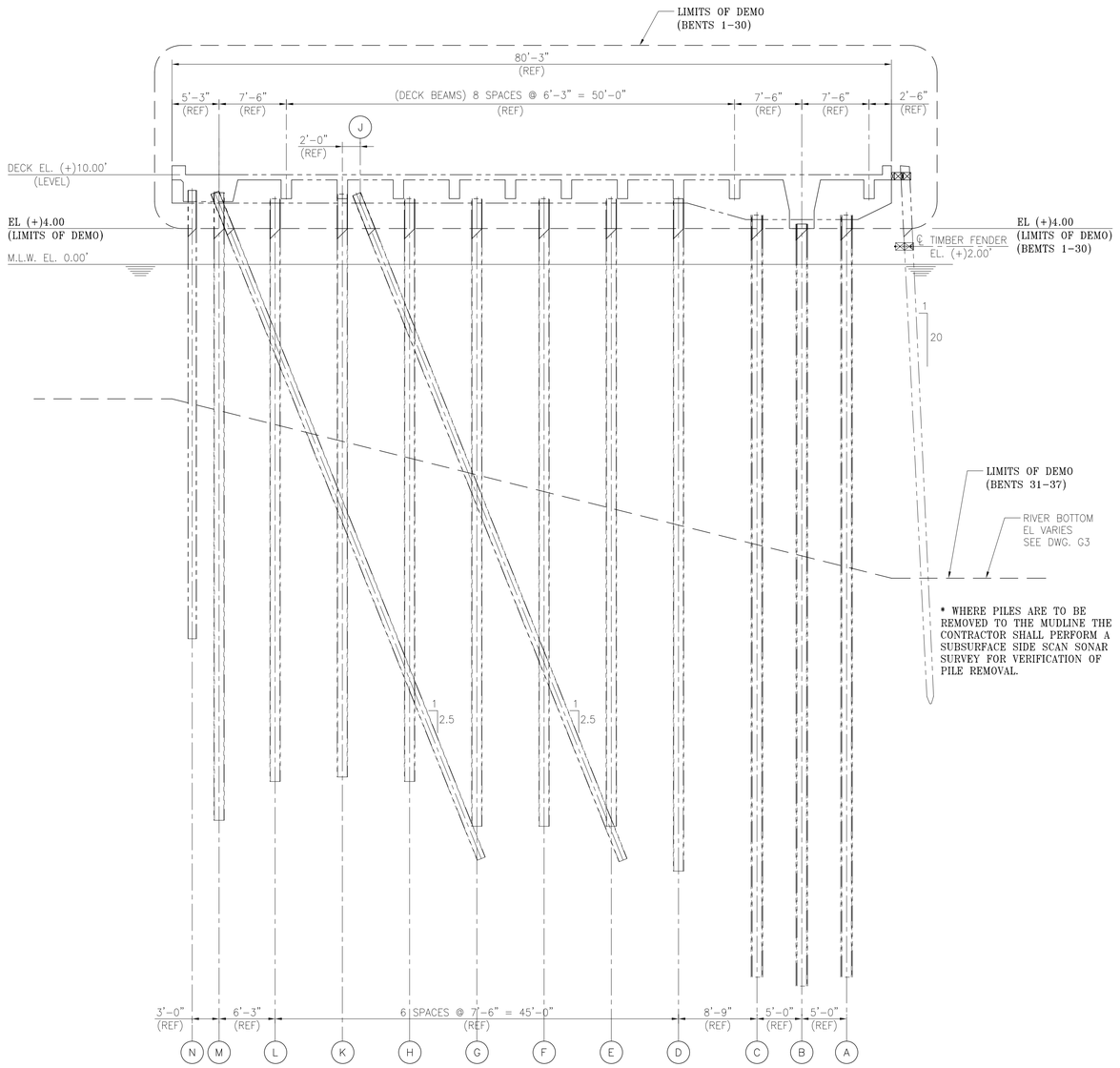


* WHERE PILES ARE TO BE REMOVED TO THE MUDLINE THE CONTRACTOR SHALL PERFORM A SUBSURFACE SIDE SCAN SONAR SURVEY FOR VERIFICATION OF PILE REMOVAL.

TYPICAL DOCK DEMOLITION SECTION

1/8"=1'-0" (BENTS 1 TO 6, 8 TO 12, 15 TO 19, 21 TO 25, 28 TO 31, 33 TO 36)

* NOTE:
SEE REFERENCE DRAWINGS LISTED ON DRAWING G1 FOR ADDITIONAL INFORMATION



* WHERE PILES ARE TO BE REMOVED TO THE MUDLINE THE CONTRACTOR SHALL PERFORM A SUBSURFACE SIDE SCAN SONAR SURVEY FOR VERIFICATION OF PILE REMOVAL.

TYPICAL DOCK DEMOLITION SECTION

1/8"=1'-0" (BENTS 13, 14, 26, 27 & 37)

* NOTE:
SEE REFERENCE DRAWINGS LISTED ON DRAWING G1 FOR ADDITIONAL INFORMATION

ALABAMA PORT AUTHORITY
PORT OF MOBILE

ASPA PROJECT NO: 11099 -- TASK 1 | ASPA DRAWING NO.

NOTES

REFERENCE DRAWINGS

NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BIDS	LRH	JEJ	RSG	05/04/22

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DRAWN: LRH | CK'D: JEJ | APPD: RSG | DATE: 03/21/22 | SCALE: 1/8"=1'-0"

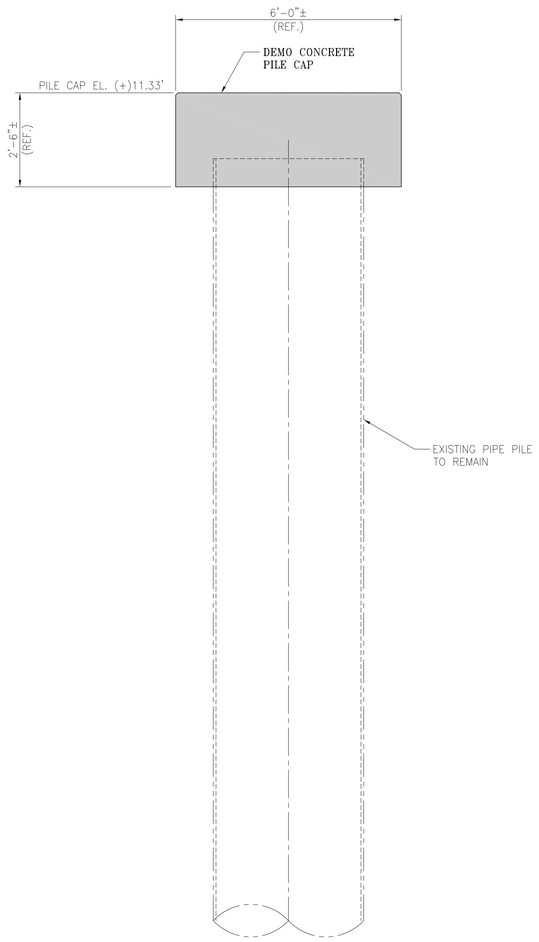
APMT PHASE IV DEVELOPMENT

DEMOLITION PACKAGE

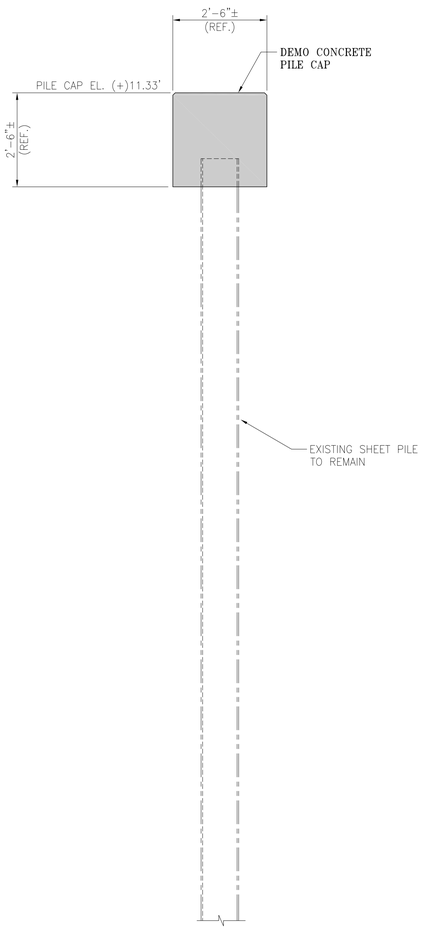
DOCK DEMOLITION TYPICAL SECTIONS

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4485.01 | DWG NO: D2 | REV: A



SECTION A/D1 D3
1/2"=1'-0"



SECTION B/D1 D3
1/2"=1'-0"

ALABAMA PORT AUTHORITY
PORT OF MOBILE

ASPA PROJECT NO: 11099 – TASK 1 | ASPA DRAWING NO.

NOTES

NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BIDS	LRH	JEJ	RSG	05/04/22

REFERENCE DRAWINGS

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DRAWN: LRH | CK'D: JEJ | APPD: RSG | DATE: 03/22/22 | SCALE: 1/2"=1'-0"

APMT PHASE IV DEVELOPMENT

DEMOLITION PACKAGE

TYPICAL SECTIONS AT SHEET PILE WALLS

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4485.01 | DWG NO: D3 | REV: A

417B-S1

EXISTING STRUCTURES IN THIS AREA TO BE DEMOLISHED

EXISTING STRUCTURES IN THIS AREA PREVIOUSLY REMOVED

Note: Winches, Sheaves & Cable Not part of this contract

NOTE: VERTICAL HEIGHT ℄ PIPE TO DECK - 53 1/4"
FACE OF CURB TO ℄ RISER - 17 1/2"
HEIGHT OF RISER ABOVE DECK - 25 1/2"

PLAN

REFERENCE DRAWINGS

Main Wharf ____ 417B-S2 to 417B-S10 incl. & 417B-S12 & 417B-S13
North Barge Wharf ____ 417B-S14 to 417B-S17 incl.
West Barge Wharf ____ 417B-S18 to 417B-S20 incl.
Turning Cell ____ 417B-S21 to 417B-S22 incl.
Conveyor - Foundation Plan & Details ____ 417B-S102
Main Wharf - Crane Rail Details ____ T.C.I. Dwgs. M51 to M55 incl.
Weigh Station - Foundation Plan & Details ____ 417B-S122

NO.	DATE	BY	REMARKS
9	7/8/60	R.R.	ADDED FUEL OIL LINE
8	4/23/53	A.L.	Turning Dolphin relocated, Cell Dia. revised. Future Fender removed
7	11/7/52	H.E.	Indicated revision of wall at Weigh Station.
6	9/30/52	W.P.	List of Reference Dwgs. & Macadam Pavement Revised.
5	9/3/52	W.P.	Relocated ℄ of Weigh Station

REVISIONS

NO.	DATE	BY	REMARKS
④	4/28/52	H.E.	Revised Layout of Sheet pile Bulkhead at South Prop. Line
③	4/17/52	J.J.K.	Added 50'-0" Concrete Retaining Wall at North Property Line.
2	3/28/52	J.J.K.	Increased width of Main Wharf & Island Pier, Mooring Bitts on Main Wharf replaced by Bollards. Added Drainage Inlets
1	3/5/52	H.E.	Added Bollards to South Side of Main Wharf & Minor Revisions
1	3/5/52	J.J.K.	Added concrete wall & fence at North Property Line. Revised and relocated Turning Cell and eliminated Walkway.

REVISIONS

TENNESSEE COAL AND IRON DIVISION
UNITED STATES STEEL COMPANY
FAIRFIELD, ALABAMA

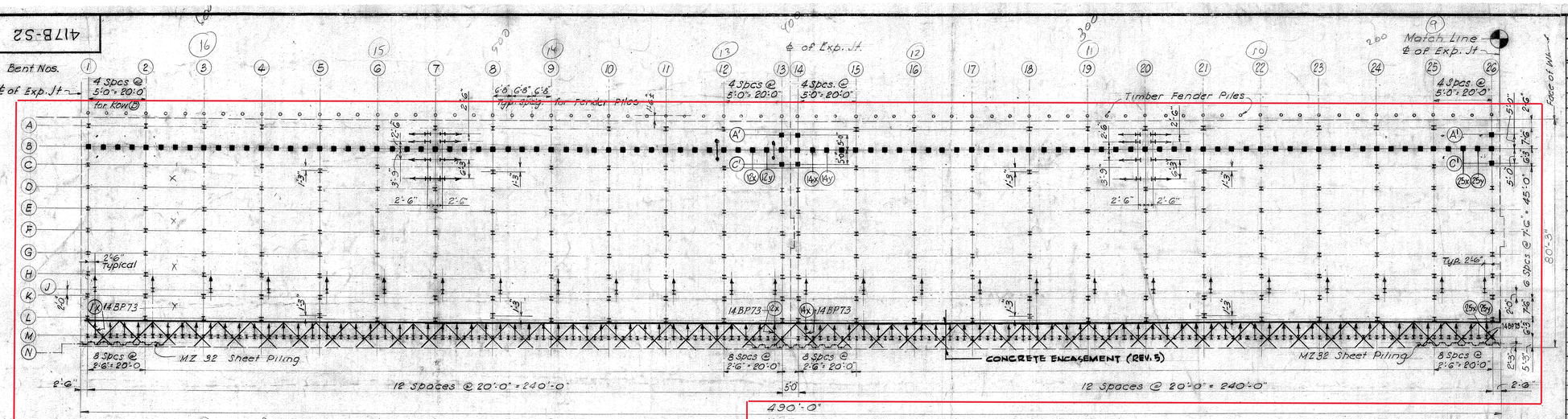
ORE TERMINAL
MOBILE ALABAMA

MAIN WHARF
GENERAL PLAN

KNAPPEN TIPPETTS ABBETT ENGINEERING COMPANY
62 WEST 47TH STREET NEW YORK, N. Y.

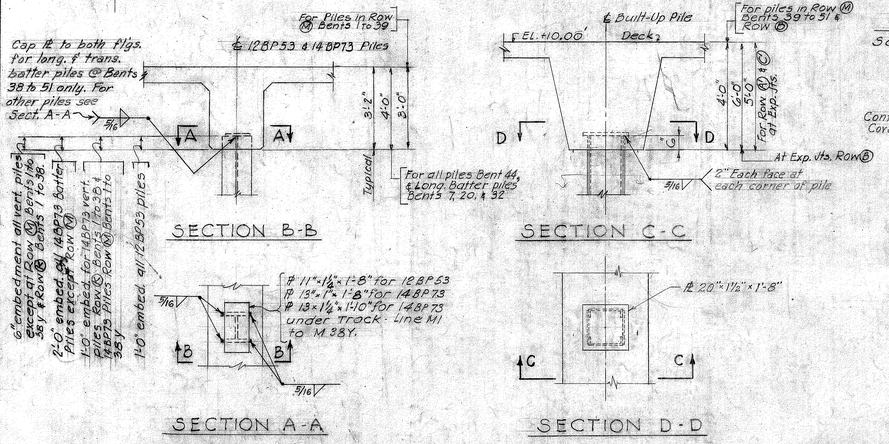
DRAWN BY: H.R.P.	SCALE: 1" = 50'-0"	DRAWING NO.
TRACED BY: H.R.P.	DATE: February 4, 1952	417B-S1
CHECKED BY: H.E.	APPROVED BY: [signature]	

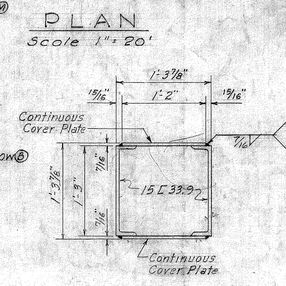
417B-S2



Notes:
Batter piles on line (M) are to be 12 BP 53 sections unless otherwise noted.
For details of sheet piling at Bent No. 1 see Dwg. 417B-S18

I Batter Pile
I Vertical Pile
■ Built-Up Pile





NOTES
All elevations refer to M.L.W. El. 0.0'
All locating dimensions are at bottom of cap beams
Pile lengths shown in schedule are to be used only to order piles and to indicate approximate penetrations required. actual pile penetrations to be determined in field
Maximum permissible misalignment of piles to be 3" in any direction.
All timber piles on north side of pier to be Greenheart
All other timber piles to be creosoted southern pine or creosoted douglas fir.
For details of pile splices & end plugs see Dwg. 417B-S6.

REFERENCE DRAWINGS

Transverse Section I	417B-S6
Transverse Section II	417B-S7
Timber Fender Details	417B-S10
Main Wharf - Deck Plans Bents 38-51	417B-S5
West Barge Wharf - Plans & Elevations	417B-S18

PILE SCHEDULE

Location	No. Reqd.	Cut-Off Elev.	Lgth.	Remarks
14 BP 73 Vert. Piles - Design Load = 70 Tons				
A1-A12, C1-C6, C8-C12, D1-D13.	36	7.33	75'	
E1-E13, F1-F13, G1-G13.	39	7.33	70'	
H1-13, K1-K13, L1-L13.	39	7.83 7.33	65'	For Row K For Others
M1-M13	49	8.00	70'	
A15-A25, C15-C19, C21-C25, D14-D25.	33	7.33	75'	
E14-E25, F14-F25, G14-G25, H26, L26	38	7.33	70'	
E26, F26, G26.	3	7.33	75'	
D26	1	7.33	80'	
H14-H25, K14-K25, L14-L25.	36	7.83 7.33	65'	For Row K For Others
K26	1	7.83	70'	
M14-M25x	48	8.00	70'	
M26 at bent	1	8.00	75'	
A28-A31, C28-C31, D27-D31.	13	7.33	80'	
E27-F31, F27-F31, G27-G31.	15	7.33	75'	
H27-H31, K27-K31, L27-L31.	18	7.83 7.33	70'	For Row K For Others
M27-M31x	20	8.00	75'	
A32, A33, C33, D32, D33.	5	7.33	85'	
E32, E33, F32, F33, G32, G33.	6	7.33	80'	
H32, H33, K32, K33, L32, L33	6	7.83 7.33	75'	For Row K For Others
M32-M33	5	8.00	80'	
A34-A36, C34-C36, D34-D36, E34-E36.	12	7.33	95'	
F34-F36, G34-G36, H34-H36, L34-L36.	12	7.33	95'	
K34-K36	3	7.83	95'	
M33x-M36.	12	8.00	95'	
A39-A43, A45-A51, C39-C43, C45-C51, D37-D43, D45-D51	38	7.33	110'	
E37-E38, F37-F43, F45-F51, G37-G43, G45-G51	30	7.33	110'	
H37-H38, K38-K43, K45-K51, L37-L43, L45-L51	28	7.33	110'	
H37, K38, E51, H51.	4	7.83	110'	
M36x-M38y	8	8.00	110'	
A44, D44, K44	3	6.50	110'	
Spares: 2@65', 7@70', 3@75', 1@85'				
Spares: 9@110'				
14 BP 73 Batter Piles - Design Load = 70 Tons				
M1x & M12x	2	8.00	70'	Transverse
Bent 7	8	8.00	75'	Longitudinal
M14x	1	8.00	70'	Transverse
M25y	1	8.00	75'	Transverse
Bent 20	8	8.00	75'	Longitudinal
M27x	1	8.00	75'	Transverse
Bent 32	8	8.00	85'	Longitudinal
M36y & M38x	2	8.00	110'	Transverse
E39-E43, E45-E51, H39-H43, H45-H51	46	7.83	110'	Transverse
Bent 44	20	8.00	110'	Longitudinal
E44, H44	4	7.00	110'	Transverse
12 BP 53 Batter Piles				
J1-J38	38	7.83	80'	Trans. 1 on 2½ Batt. Design Load = 67 Tons
M1-M38x	133	8.00	80'	Trans. 1 on 2½ Batt. Design Load = 70 Tons.
Line 35X	10	2.50	80'	Batter 1 on 3 Design Loads = 47 Tons
Line 35Y	7	2.50	60'	Batter 1 on 3 Design Load = 70 Tons
Spares	4	—	80'	
Built-Up Vertical Piles - Design Load = 135 Tons except as noted.				
B1-B12x, B14y-B35x, B37y-B35x	118	+6.50	85'	
A'B, A'14, C'13, C'14, A'26, A'27, C'26, C'27	8	+5.50	85'	
B12y, B13, B14, B14x, B25y, B26, B27, B27x	8	+4.50	85'	
B34-B34x	4	+6.50	90'	
B35-B35x	4	+6.50	95'	
B36-B36x	3	+6.50	100'	
A'37, A'38, C'37, C'38	4	+5.50	105'	
B36y, B37, B38, B38x	4	+4.50	105'	
B35y-B51	51	+6.50	105'	
M39-M51	49	+6.50	105'	Design Load: 100 Ton
Test Piles to be used as Spares	2	—	80'	
MZ 32 Sheet Piling				
Line N	403	8.25	50'	
Line 38x & at Property Line	37	9.50	50'	
Corner C6	1	9.50	50'	CG38B; A:B=7"
Corner C7	1	9.50	50'	CG38A; A:B=7"
Spares	5		50'	
Line 38x - MZ-38 Sheet Piling	2	9.50	60'	18 C spares listed on Dwg. 417B-S18

Timber Fender Pile Schedule

Location	No. Reqd.	Cut-Off Elev.	Lgth.	Remarks
North side of pier	144	11.00	60'	Batter 1 on 20
South side of pier	39	11.00	50'	do
No. side pile cluster	23	13.50	60'	do
So. side pile cluster	13	13.50	50'	do
B51	1	11.00	60'	do
L51	1	11.00	50'	do
At bulkhead	6	11.00	50'	do
Spares	10		60'	

NO.	DATE	BY	REMARKS
5		DM	ADD CONCRETE ENCASEMENT
4	5/19/52	W.P.	Relocated and added 12 BP 53 Piles on lines 35X and 35Y.
3	4/28/52	H.E.	Revised Layout of sheet pile bulkhead at Property Line & Minor Drafting changes
2	3/28/52	W.P.	Increased width of Wharf and revised dimensions accordingly.
1	3-7-52	H.E.	Increased number of Timber Piles at North side Pile Cluster & minor revisions
1	3-7-52	W.P.	Lgths. of 14 BP 73 piles Bents 38-51 revised, Lgths. of Built Up piles shown & welding of pile cap ftg. reduced
1	3-7-52	W.P.	Relocated Piles C5, C6, E5, F5, G5, H5, L5 & 1 - 24" Long batter pile @ Bents 7, 20 & 32 & Revision to Notes & Relat. Dwgs.

REVISIONS

TENNESSEE COAL AND IRON DIVISION
UNITED STATES STEEL COMPANY
FAIRFIELD, ALABAMA

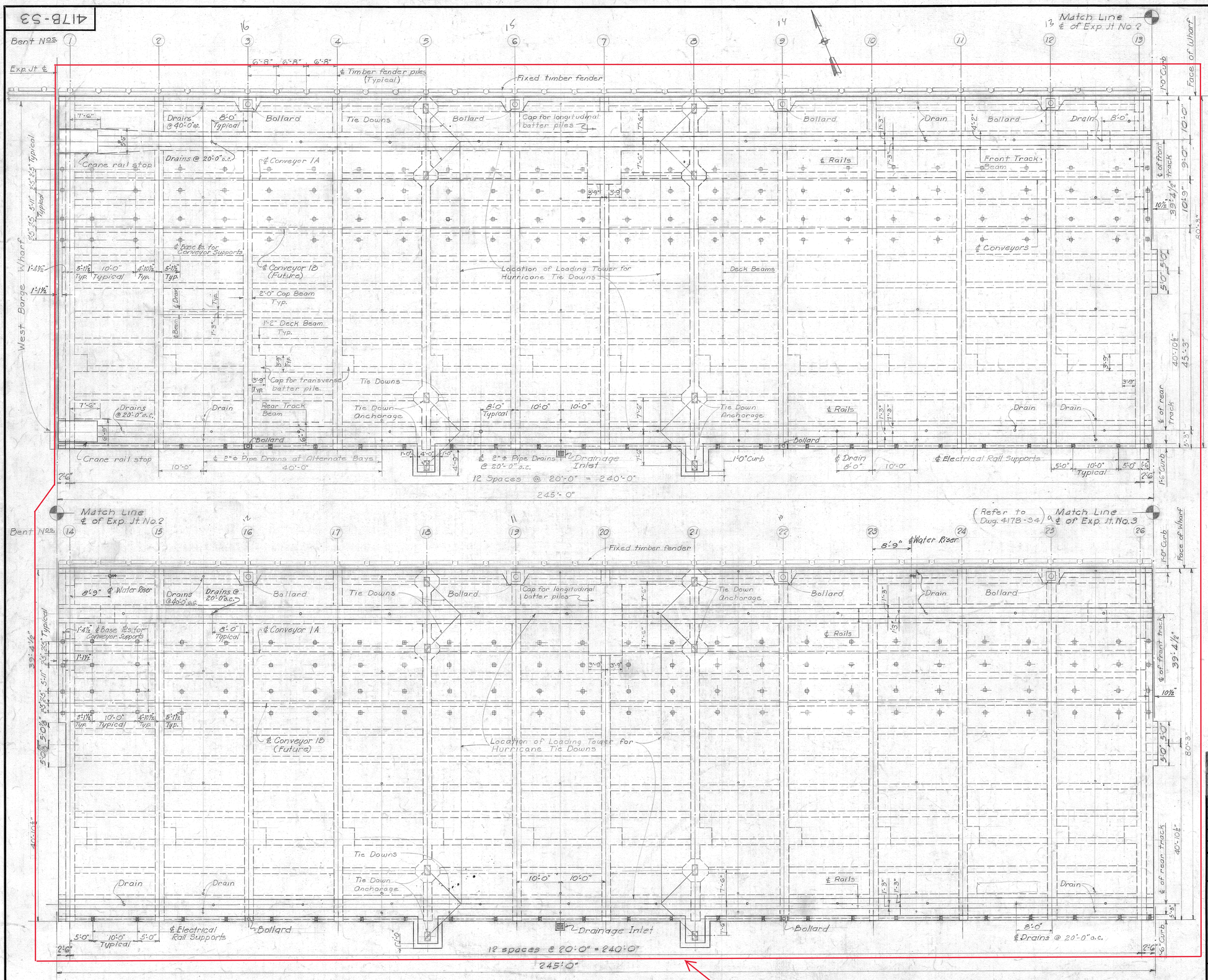
ORE TERMINAL
MOBILE ALABAMA

MAIN WHARF
PILE PLAN & DETAILS

KNAPPEN TIPPETTS ABBETT ENGINEERING COMPANY
62 WEST 47TH STREET NEW YORK, N. Y.

DRAWN BY: H.R.P.
TRACED BY: W.P.
CHECKED BY: H.E.
SCALE: AS NOTED
DATE: February 4, 1952
APPROVED BY: James H. Tratton
DRAWING NO. 417B-S2

4178-53



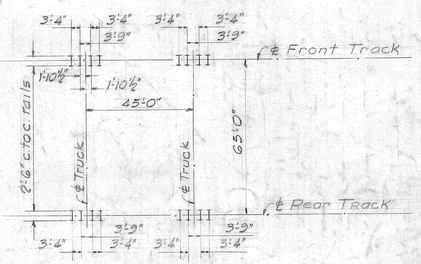
DECK PLAN - BENTS 1 TO 26 INCL.

ALL EXISTING STRUCTURES IN THIS ARE TO BE DEMOLISHED.

GENERAL NOTES - MAIN WHARF

Design Loading

1. Uniform Live Load on Deck = 600 psf
2. AASHO - H20 Truck Loading
3. Surcharge back of sheet piling = 1700 psf
4. Loading Tower
   - Water Leg Axle Loads = 275ᴷ each
   - Land Leg Axle Loads = 195ᴷ each
   - Axle Loads Include Impact.
   - No impact on piles



PLAN

Allowable Unit Stresses

Structural Steel	18000 psi
Ultimate Strength of Concrete @ 28 days	3000 psi
Reinforcing Steel	18000 psi

Concrete

All exposed edges of concrete to be chamfered one inch unless otherwise noted.
Unless otherwise noted all reinforcing steel to have the following clear cover:

Top of slab	1½"
Bottom of slab	2"
Beams & Girders	2½"

REFERENCE DRAWINGS

Main Wharf - General Plan		4178-S1
" " - Pile Plan & Details		" -S2
" " - Deck Plan I - Bents 1 to 26		" -S3
" " - Deck Plan II - Bents 27 to 37		" -S4
" " - Deck Plan III - Bents 38 to 51		" -S5
" " - Transverse Sections I		" -S6
" " - Transverse Sections II		" -S7
" " - Concrete Details I		" -S8
" " - Concrete Details II		" -S9
" " - Timber Fender Details		4178-S10
" " - Crane Rail Details T.C.I. Dwgs.	M51 & M52	
" " - Miscellaneous Details I		4178-S12
" " - Miscellaneous Details II		" -S13
West Barge Wharf - Plans & Elevations		" -S18
Main Wharf - Fresh Water Piping - Plan & Details		" -S26

ITEM	REFER. DWG
Drains, Conveyor Supports & Expansion Joint Details	4178-S4
Bollards	4178-S9 & 4178-S12
Electrical Rail Supports & Inlets	4178-S12
Tie Down Anchorage	4178-S9 & 4178-S13
Water Riser	4178-S26
Crane Rail Stops T.C.I. Dwgs.	M53, M54 & M55

NO.	DATE	BY	REMARKS
6	2/9/53	W.F.S.	Relocated ℄ Sects. for Conveyor Support.
5	3/30/52	W.F.	Revised list of dwgs. & added drains between rails
4	4/28/52	H.E.	Added water risers btw. Bents 14 & 15, 23 & 24 North Side
3	4/16/52	H.E.	Relocated & added Base Pls. for Conveyor Supports.
2	3/28/52	J.J.K.	Increased width of Wharf and curb at South side, relocated Conveyor supports, showed Bollards, Electrical Rail supports & Drainage Inlets at South side. Relocated Drains between rails.
1	2/11/52	J.J.K.	Located Tie Down Anchorages & Revised Track Dimension at Bent 1

REVISIONS

TENNESSEE COAL AND IRON DIVISION
UNITED STATES STEEL COMPANY
FAIRFIELD, ALABAMA

ORE TERMINAL
MOBILE ALABAMA

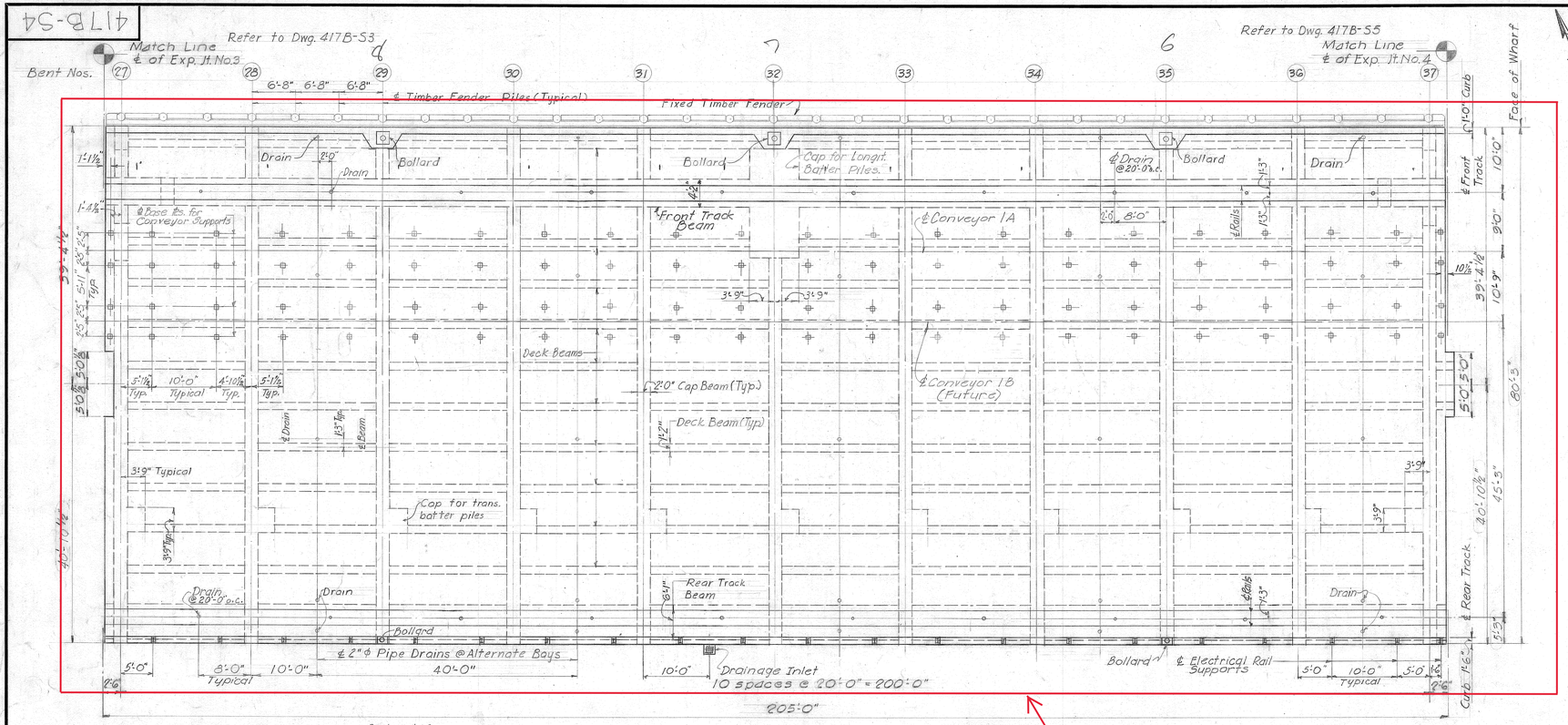
MAIN WHARF

DECK PLAN I BENTS 1 TO 26

KNAPPEN TIPPETTS ABBETT ENGINEERING COMPANY
62 WEST 47TH STREET NEW YORK, N. Y.

DRAWN BY: J.J.K. & M.K.	SCALE: 1" = 10'-0"	DRAWING NO.
TRACED BY: J.J.K. & M.K.	DATE: February 4, 1952	4178-S3
CHECKED BY: H.E.	APPROVED BY:	

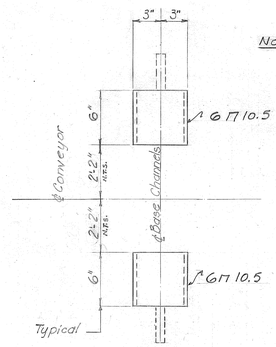
417B-54

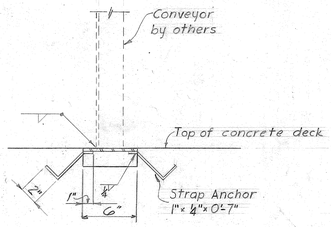


DECK PLAN - BENTS 27 TO 37 INCL

Scale 1"=10'

EXISTING STRUCTURES IN THIS AREA TO BE DEMOLISHED



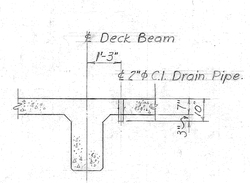


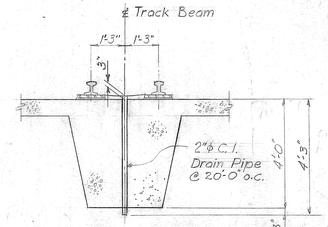
Note: For location of 6 CI Supports see Dwg. Nos. 417B-53, 417B-54, 417B-55.

PLAN SECTION

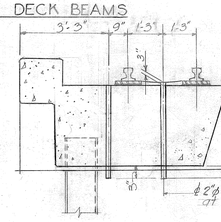
DETAILS OF CONVEYOR SUPPORT

Scale 1½"=1'-0"



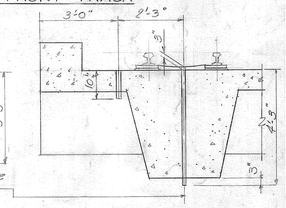


AT DECK BEAMS



AT REAR TRACK
BENTS 1 TO 39 INCL.

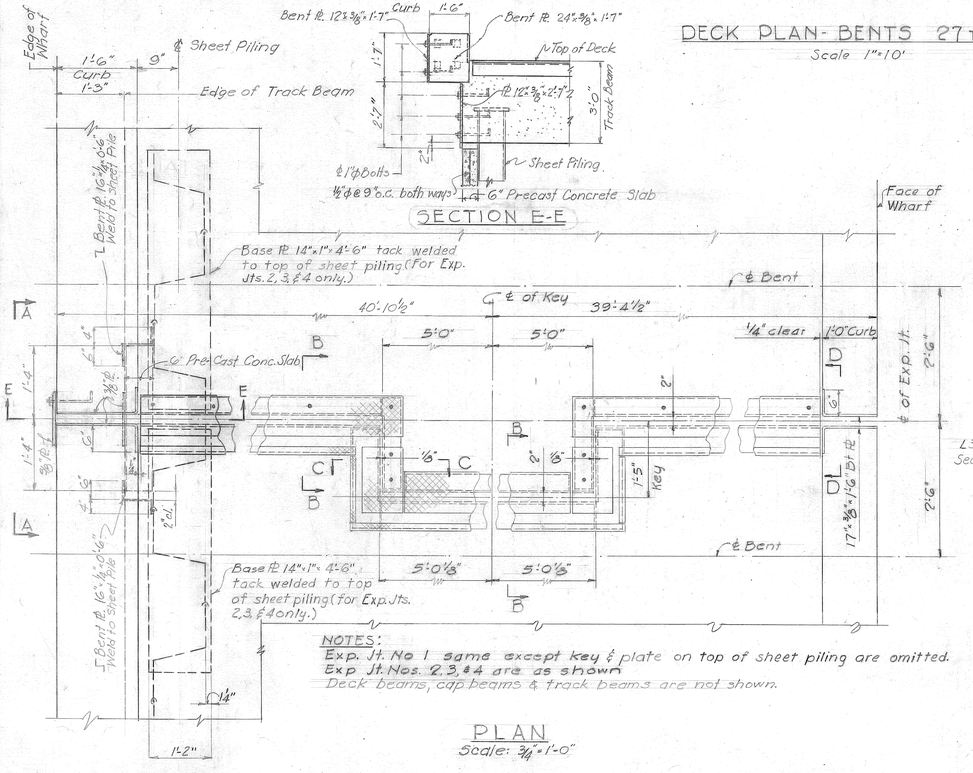
AT FRONT TRACK

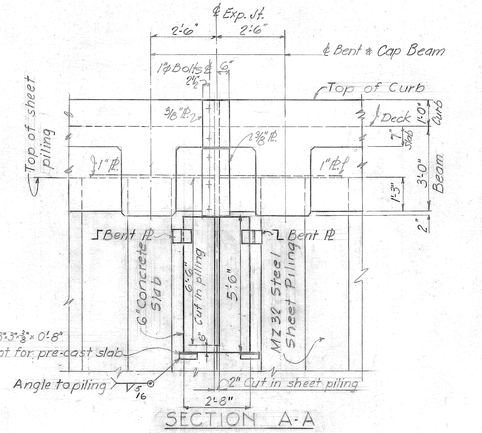


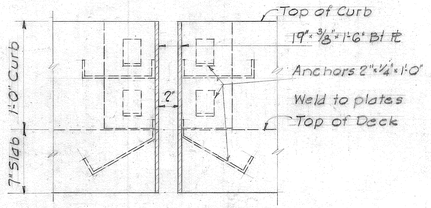
AT REAR TRACK
BENTS 39 TO 51 INCL.

DRAIN DETAILS

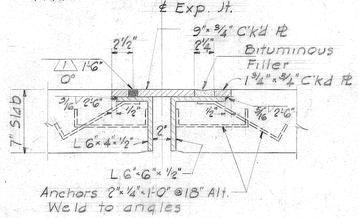
Scale: 3/8"=1'-0"

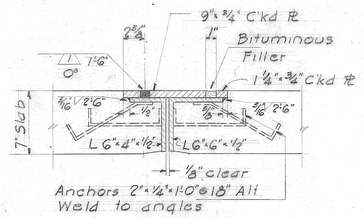






Note: Expansion Joint opening shown at 70°F. For other erection temperature proper adjustment of opening is to be made.





NOTES

For General Notes & List of Reference Drawings see Dwg. No. 417B-53.

NO.	DATE	BY	REMARKS
4	2-9-53	W.F.S.	Relocated ℄ Sect. for Conveyor Supports
3	9-30-52	W.F.	Revised drain detail at tracks & added drains between rails.
2	4-16-52	H.E.	Relocated & added Base ℔s. for Conveyor Supports.
1	3-28-52	H.E.	Increased width of Wharf and curb at South side of Wharf.
1	3-28-52	H.E.	Relocated Conveyor Supports and Drains between rails.
1	3-28-52	H.E.	Added bollards, electrical rail supports and drainage inlets at South side of Wharf.
1	3-28-52	H.E.	Revised DETAILS OF EXPANSION JOINTS - PLAN & SECT. A-A
			Added Sect. E-E. Revised DRAIN DETAILS

REVISIONS

TENNESSEE COAL AND IRON DIVISION
UNITED STATES STEEL COMPANY
FAIRFIELD, ALABAMA

ORE TERMINAL
MOBILE ALABAMA

MAIN WHARF

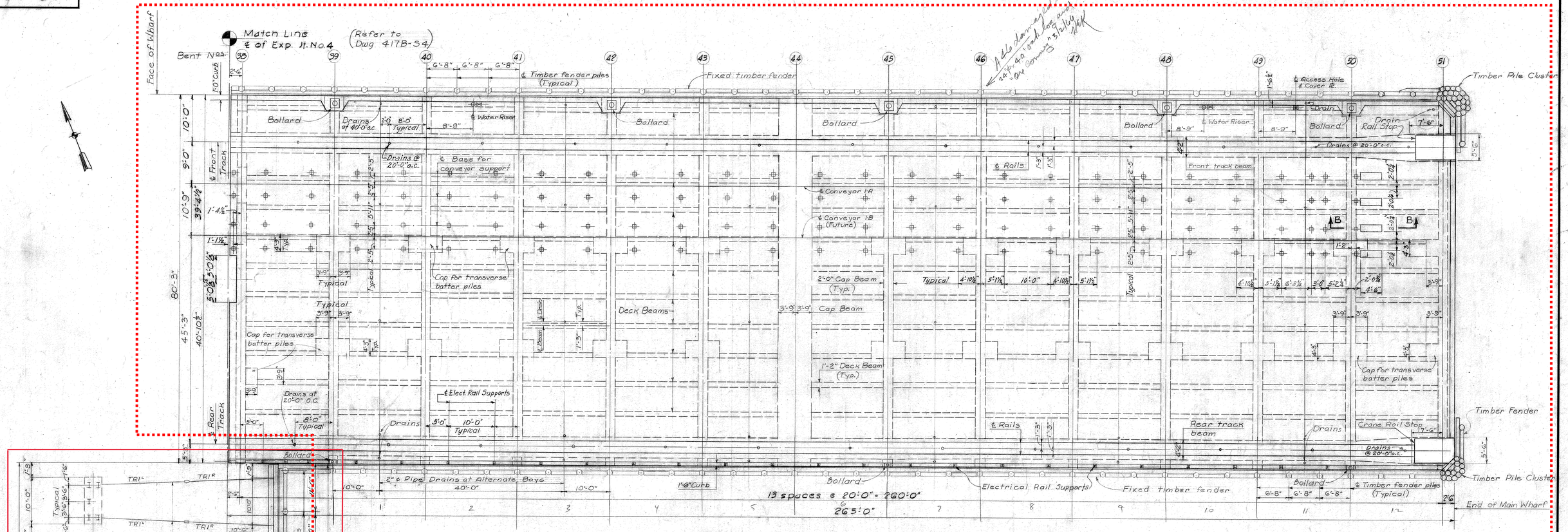
DECK PLAN II - BENTS 27 TO 37

KNAPPEN TIPPETTS ABBETT ENGINEERING COMPANY
62 WEST 47TH STREET NEW YORK, N. Y.

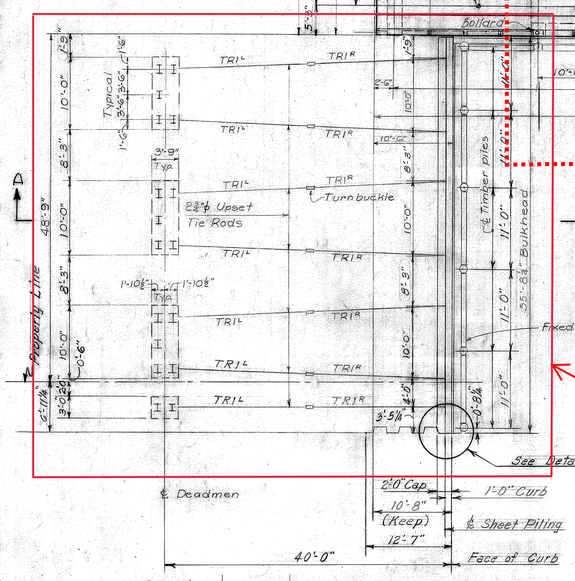
DRAWN BY: M.K. & S.J.D.
TRACED BY: M.K. & S.J.D.
CHECKED BY: H.E.
SCALE: AS NOTED
DATE: February 4, 1952
APPROVED BY: James H. Tippetts
DRAWING NO. 417B-54

DETAILS OF EXPANSION JOINTS

417B-55

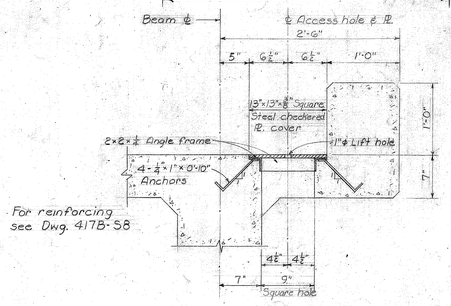


DECK PLAN - BENTS 38 to 51 INCL



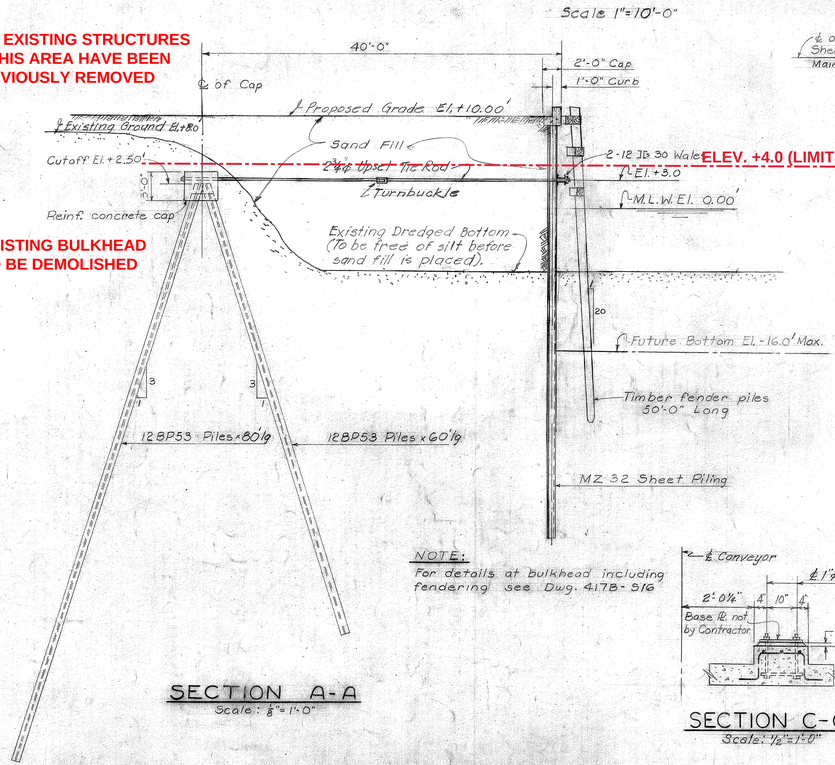
ALL EXISTING STRUCTURES IN THIS AREA HAVE BEEN PREVIOUSLY REMOVED

EXISTING BULKHEAD TO BE DEMOLISHED



For reinforcing see Dwg. 417B-58

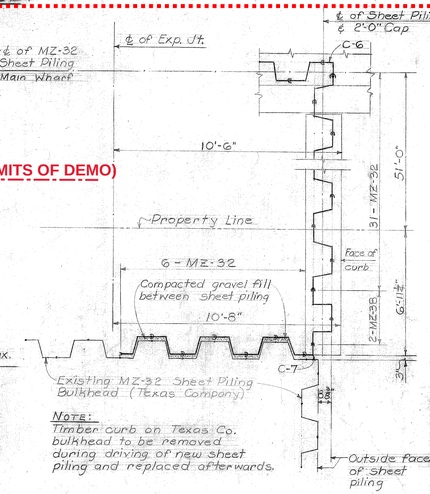
SECTION AT ACCESS HOLE
Scale: 1"=1'-0"



ELEV. +4.0 (LIMITS OF DEMO)

SECTION A-A
Scale: ⅜"=1'-0"

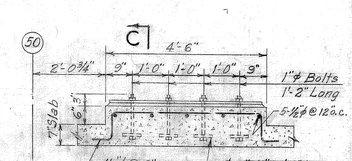
NOTE:
For details at bulkhead including fendering see Dwg. 417B-516



NOTE:
Timber curb on Texas Co. bulkhead to be removed during driving of new sheet piling and replaced afterwards.

DETAIL "A"
Scale: ¼"=1'-0"

SECTION C-C
Scale: ½"=1'-0"



SECTION B-B
Scale: ½"=1'-0"

NOTES

For General Notes & Drawings see Dwg. 417B-53

REFERENCE DRAWINGS

See list of Reference Drawings on Dwg. 417B-53
North Barge Wharf - Sections & Details - Dwg 417B-516

NO.	DATE	BY	REMARKS
7	2/9/53	W.F.S.	Relocated ℄ Sects. for Conveyor Supports.
6	9/30/52	W.P.	Revised spacing of drains between rails to be @ 20'-0" o.c.
5	7/15/52	J.J.K.	Revised backfill at MZ-32 sheet piling in Section A-A.
5	7/15/52	J.J.K.	At Section CC added note: Base R. not by contractor.
5	7/15/52	J.J.K.	Revised Conveyor Supports dimensions between Bents 49 & 50
4	7/9/52	W.P.	Revised Conveyor Supports between Bents 49 & 51. Added Tie Rod and revised location of other Tie Rods at Bulkhead. Added Sects. B-B & C-C
3	4/28/52	J.J.K.	Revised sheet piling at Texas Co. bulkhead, added Detail "A". Moved Risers between bents 40-41, 48-49 & 49-50 on Plan and Section at Access Hole.
2	4/16/52	J.J.K.	Relocated and added base plates for conveyor supports.
1	3/28/52	J.J.K.	Width of Deck & Curb at South side of Wharf increased. Walkway, Detail "D" & Section B-B deleted. Mooring Bitts replaced by Bollards. Electrical rail supports shown. Conveyor supports. Drains between rails relocated. Revised Pile Cluster @ North side
1	3/28/52	J.J.K.	REVISED TRACK BEAM DIMENSION AT BENT 51, CHANGED REFERENCE DWG. NO. & ADDED NOTE FOR SHEET PILING AT PROPERTY LINE.

REVISIONS

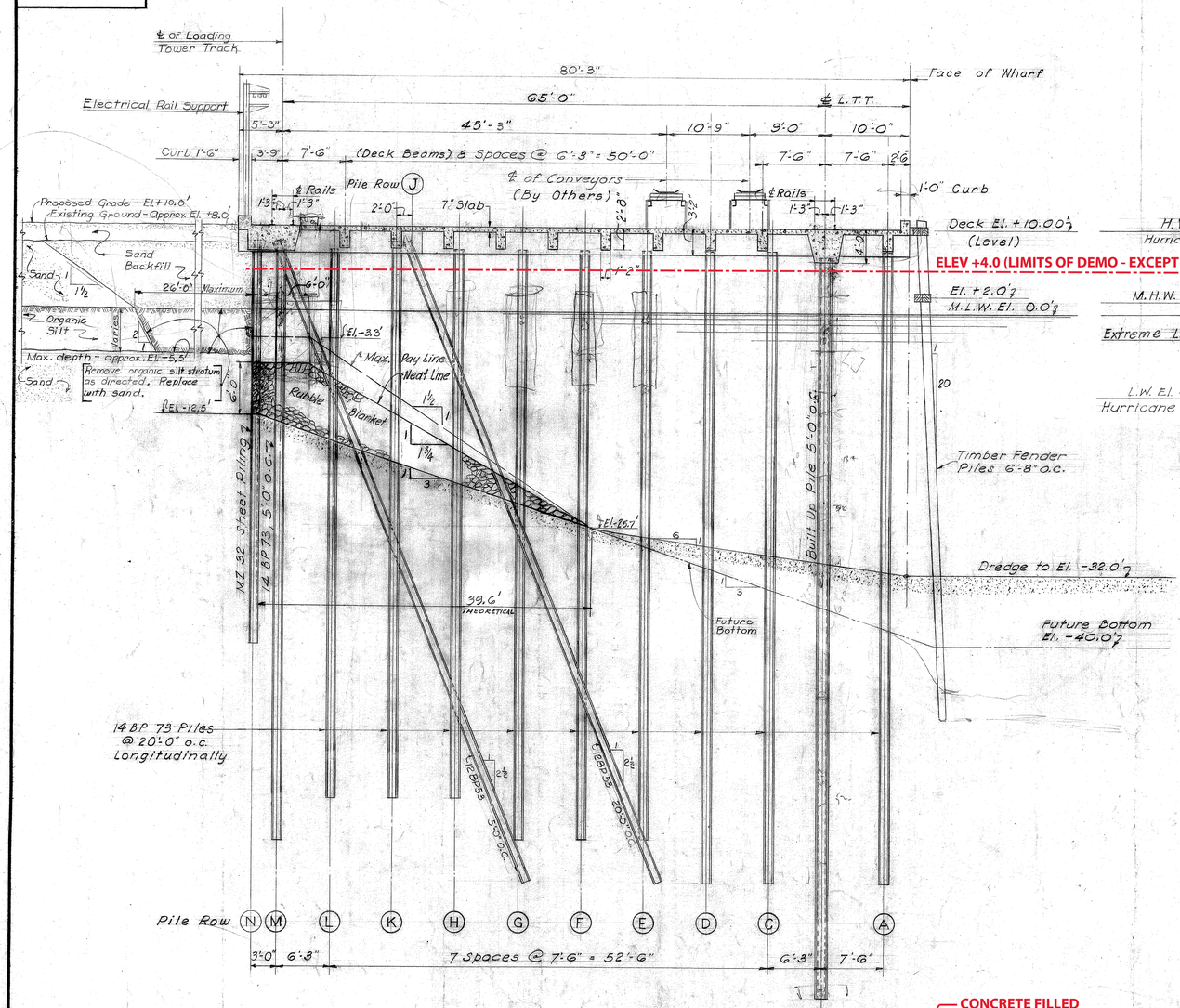
TENNESSEE COAL AND IRON DIVISION
UNITED STATES STEEL COMPANY
FAIRFIELD, ALABAMA

ORE TERMINAL
MOBILE ALABAMA
MAIN WHARF
DECK PLAN III BENTS 38 TO 51

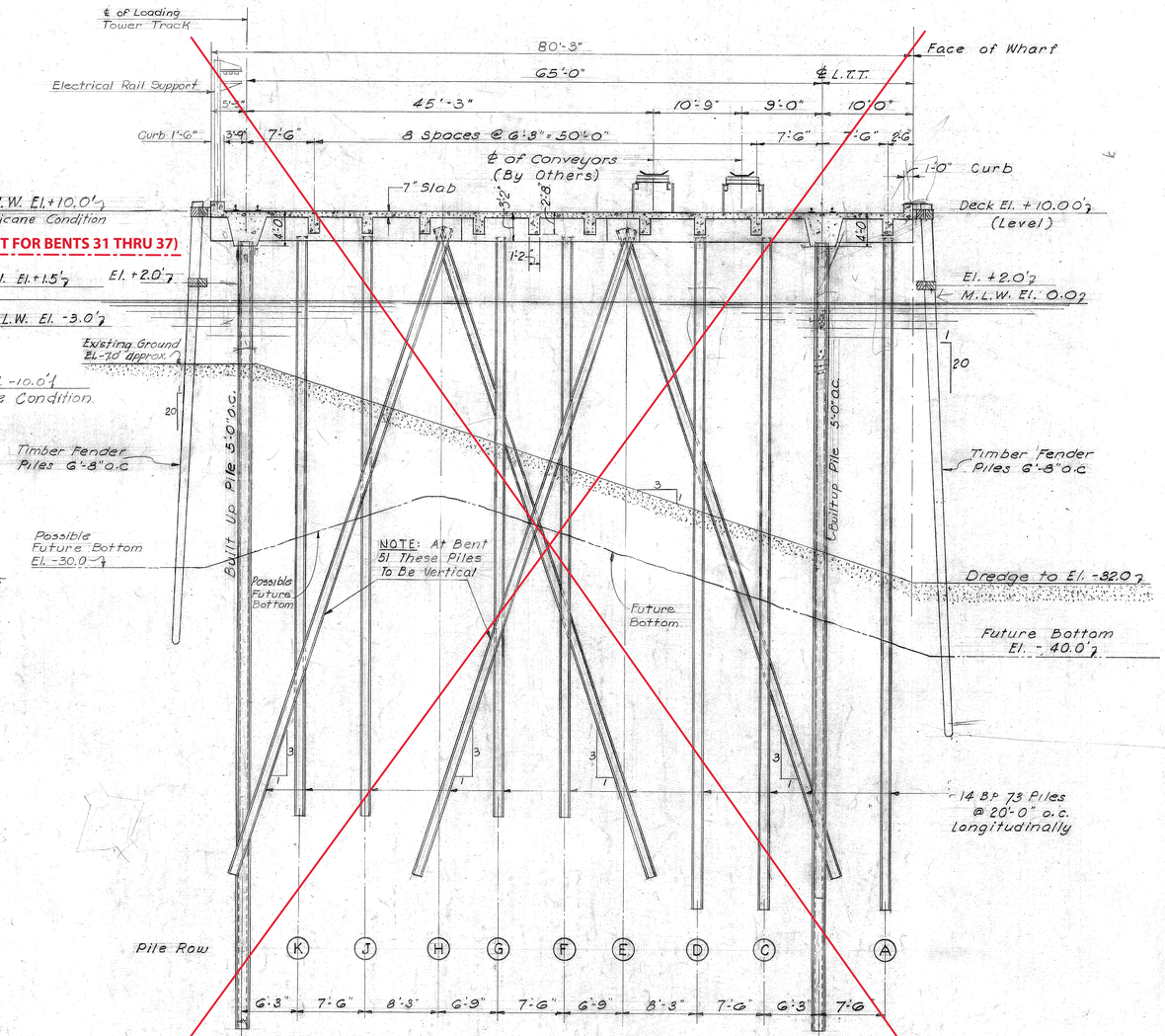
KNAPPEN TIPPETTS ABBETT ENGINEERING COMPANY
62 WEST 47TH STREET NEW YORK, N. Y.

DRAWN BY: M.K. & J.K.	SCALE: As Noted	DRAWING NO.
TRACED BY: M.K. & J.K.	DATE: February 4, 1952	417 B-55
CHECKED BY: H.E.	APPROVED BY: James A. Stratton	

417B-S6

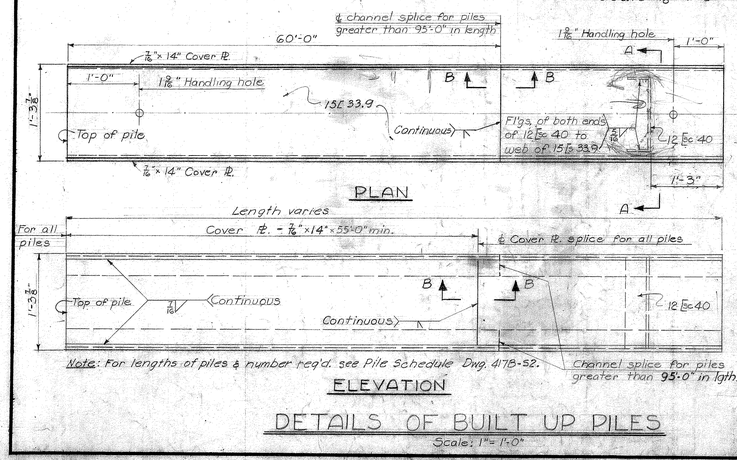


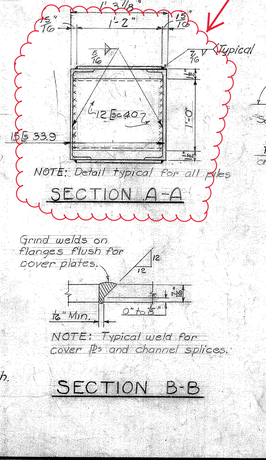
TYPICAL CROSS SECTION
BENTS 1 TO 6, 8 TO 12, 15 TO 19, 21 TO 25, 28 TO 31, 33 TO 36
Scale ⅛"=1'-0"

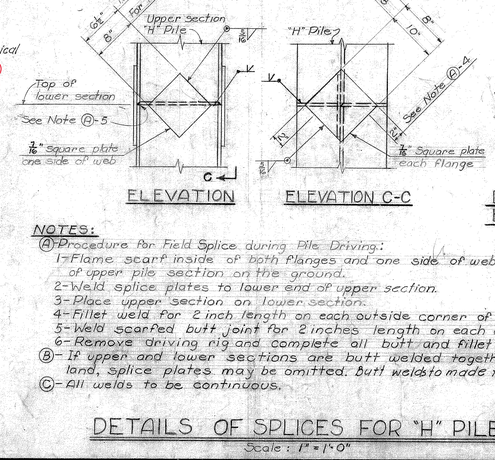


TYPICAL CROSS SECTION
BENTS 39 TO 43 & 45 TO 51
Scale ⅛"=1'-0"

CONCRETE FILLED







NOTES:
Ⓐ-Procedure for Field Splice during Pile Driving:
1-Flame scarf inside of both flanges and one side of web of lower end of upper pile section on the ground.
2-Weld splice plates to lower end of upper section.
3-Place upper section on lower section.
4-Fillet weld for 2 inch length on each outside corner of flange plates.
5-Weld scarfed butt joint for 2 inches length on each corner of flanges.
6-Remove driving rig and complete all butt and fillet welds.
Ⓑ-If upper and lower sections are butt welded together in a jig on land, splice plates may be omitted. Butt welds to made from both sides.
Ⓒ-All welds to be continuous.

DETAILS OF SPLICES FOR "H" PILES
Scale: 1"=1'-0"

NOTES: For General Notes see Dwg. No 417B-93.

REFERENCE DRAWINGS

Pile Plan & Details	417B-52
Deck Plan I - Bents 1 to 26	417B-53
Deck Plan II - Bents 27 to 37	417B-54
Deck Plan III - Bents 38 to 51	417B-55
Concrete Details I	417B-58

NO.	DATE	BY	REMARKS
3	9/3/52	W.P.	Changed backfill behind bulkhead from 2'-0" minimum to 5'-0" maximum.
2	7/15/52	J.J.K.	Revised flared typical sheet pile bulkhead & rubble blanket under wharf.
1	4/16/52	J.J.K.	Increased width of wharf and curb on South side. Added Electrical Rail Support.
1	4/16/52	J.J.K.	Changed slope of ground under wharf. Added details of Piles.

REVISIONS

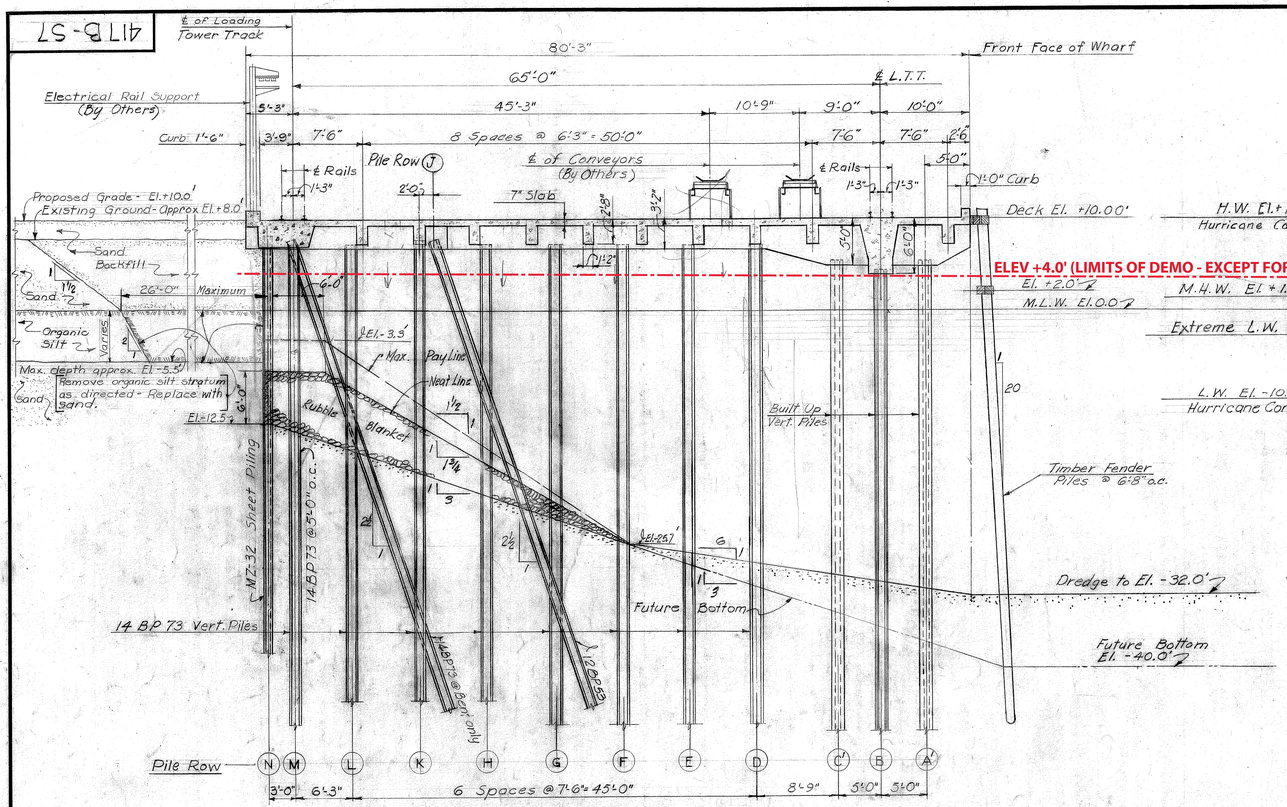
TENNESSEE COAL AND IRON DIVISION
UNITED STATES STEEL COMPANY
FAIRFIELD, ALABAMA

ORE TERMINAL
MOBILE ALABAMA
MAIN WHARF
TRANSVERSE SECTIONS I

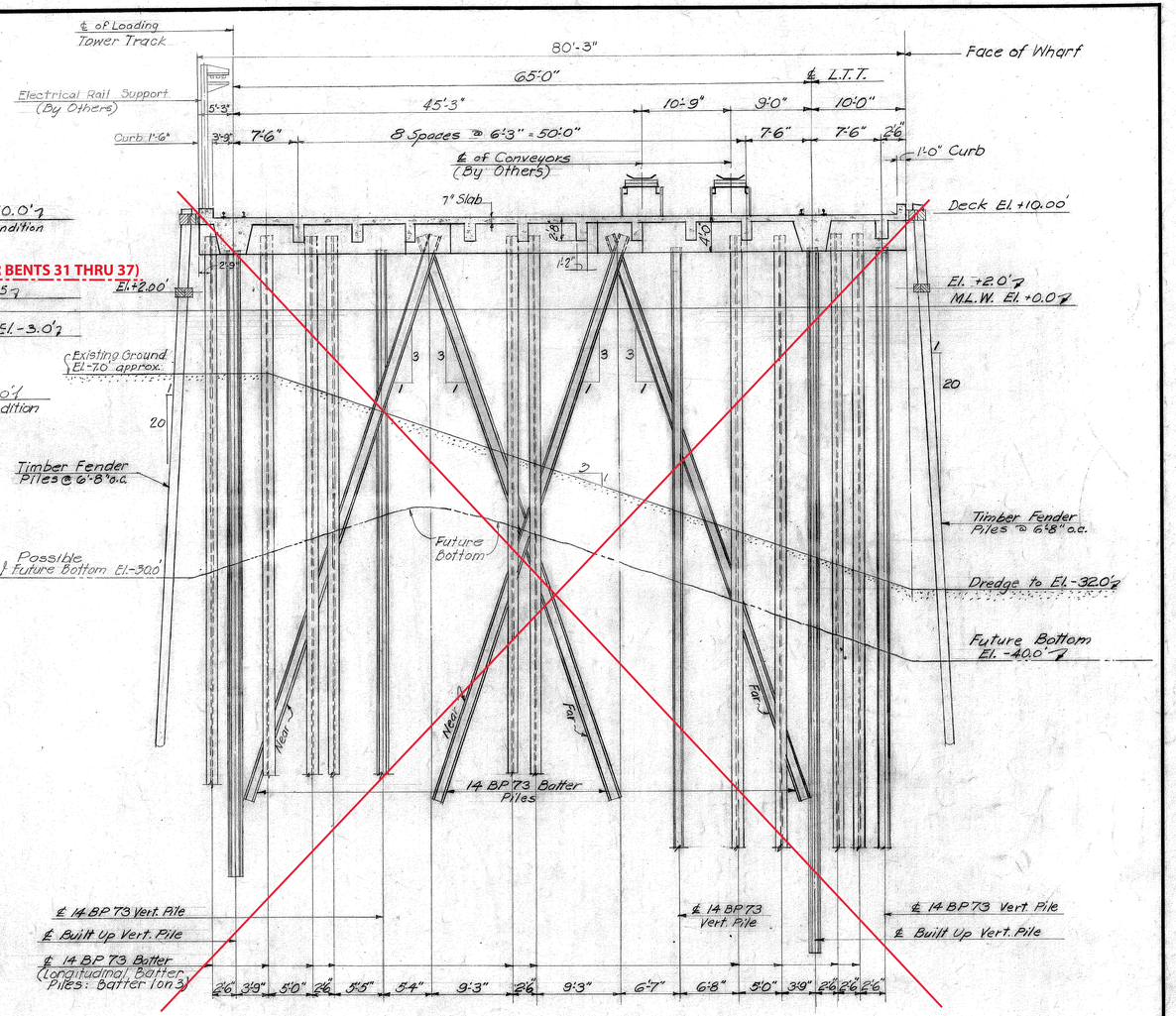
KNAPPEN TIPPETTS ABBETT ENGINEERING COMPANY
62 WEST 47TH STREET NEW YORK, N. Y.

DRAWN BY H.R.P.
TRACED BY H.R.P.
CHECKED BY H.E.
SCALE: AS NOTED
DATE: February 4, 1952
APPROVED BY: James H. Stratton
DRAWING NO. 417B-S6

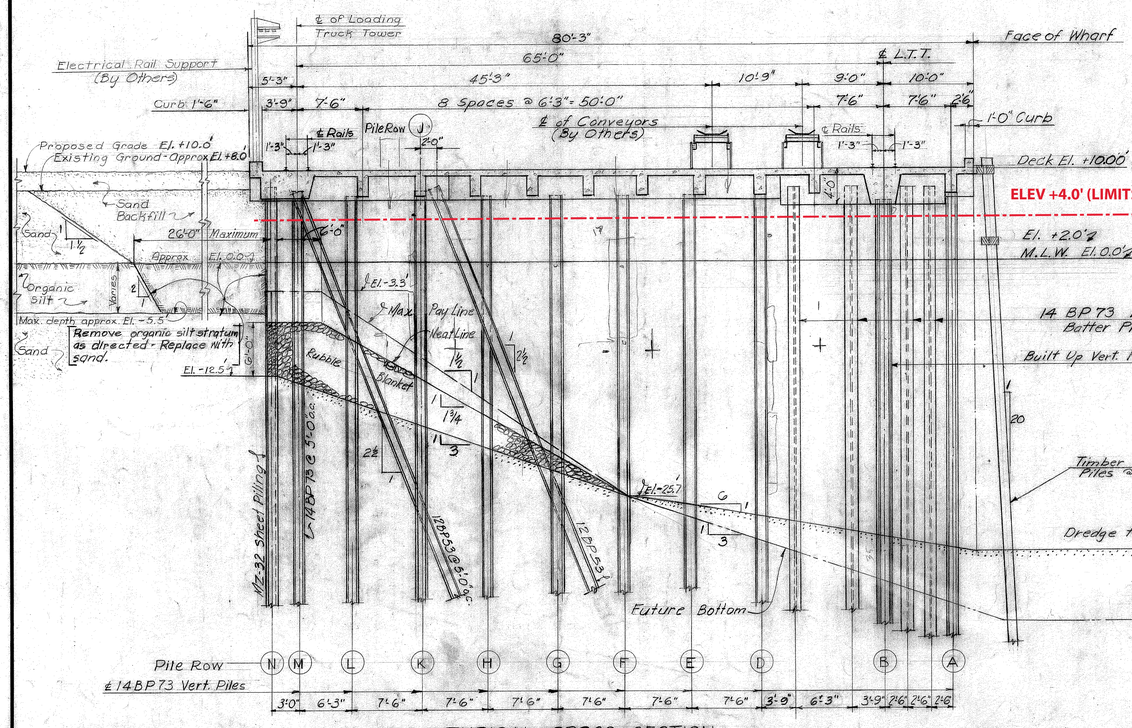
417B-S7



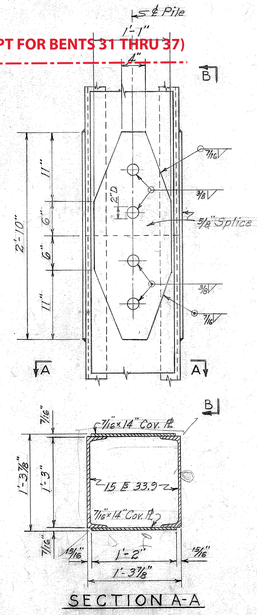
TYPICAL CROSS SECTION
BENTS 13, 14, 26, 27, 37 & 38

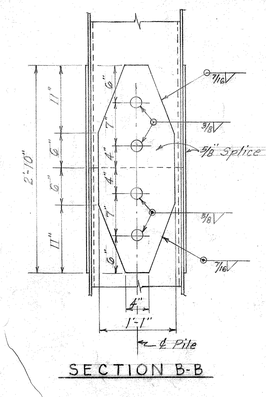


CROSS SECTION AT BENT #44.



TYPICAL CROSS SECTION
BENTS 7, 20, & 32





TYPICAL FIELD SPLICE
FOR BUILT UP PILE

Notes: For General Notes see Dwg. No. 417B-S3

REFERENCE DRAWINGS

Pile Plan & Details	417B-S2
Deck Plan I - Bents 1 to 26	417B-S3
Deck Plan II - Bents 27 to 37	417B-S4
Deck Plan III - Bents 38 to 51	417B-S5
Concrete Details II	417B-S9

NO.	DATE	BY	REMARKS
4	9/30/52	W.P.	Added details for built-up pile splice
3	3/3/52	W.P.	Changed backfill behind bulkhead from 26'-0" Minimum to 28'-0" Maximum.
2	7/15/52	J.J.H.	Revised backfill behind sheet pile Bulkhead and rubble blanket under Wharf.
1	4/16/52	W.E.	Revised slope of ground under Wharf
1	4/16/52	J.J.H.	Increased width of Wharf and curb on South Side. Added Electrical Rail Supports.
1	4/16/52	J.J.H.	Relocated longitudinal batter piles at Bents 7, 20 & 32. Minor drafting revisions.

REVISIONS

TENNESSEE COAL AND IRON DIVISION
UNITED STATES STEEL COMPANY
FAIRFIELD, ALABAMA

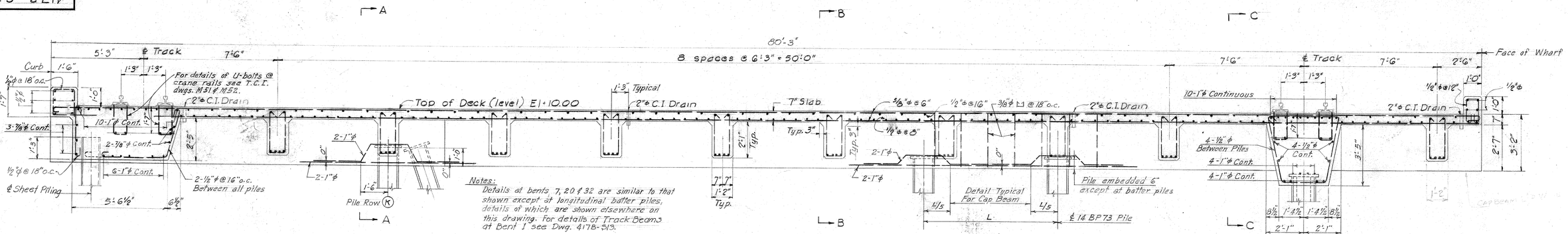
ORE TERMINAL
MOBILE ALABAMA

MAIN WHARF
TRANVERSE SECTIONS II

KNAPPEN TIPPETTS ABBETT ENGINEERING COMPANY
62 WEST 47TH STREET NEW YORK, N. Y.

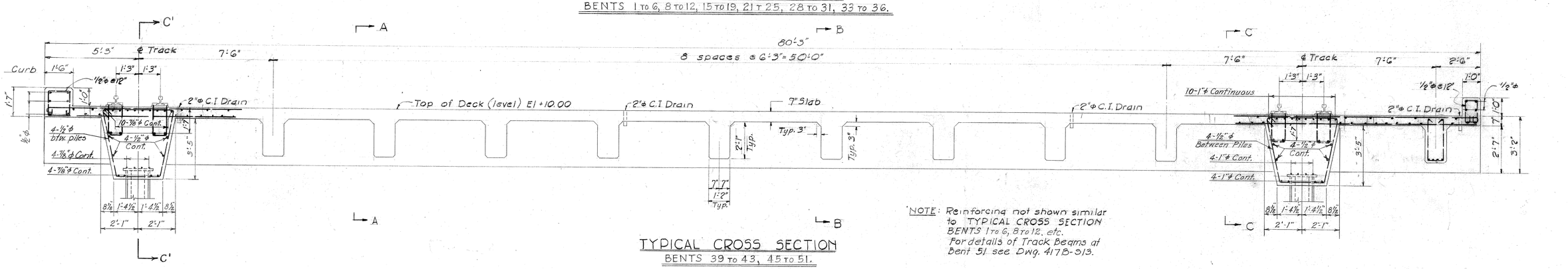
DRAWN BY: G.G.
TRACED BY: G.G.
CHECKED BY: H. E.
SCALE: 1/8" = 1'-0"
DATE: February 4, 1952
APPROVED BY: J. Lane & Stratton
DRAWING NO. 417B-S7

417B-58



TYPICAL CROSS SECTION

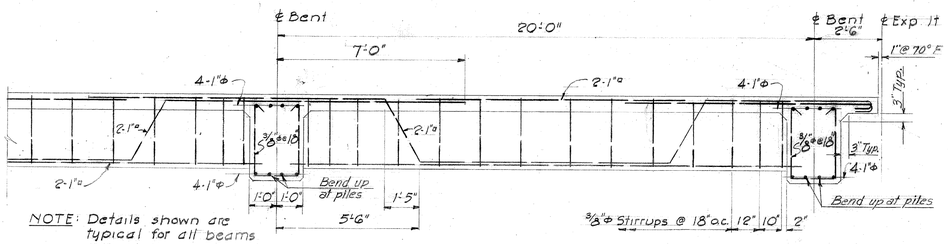
BENTS 1 TO 6, 8 TO 12, 15 TO 19, 21 T 25, 28 TO 31, 33 TO 36.



TYPICAL CROSS SECTION

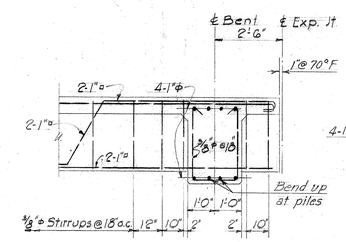
BENTS 39 TO 43, 45 TO 51.

NOTE: Reinforcing not shown similar to TYPICAL CROSS SECTION BENTS 1 TO 6, 8 TO 12, etc. For details of Track Beams at Bent 51 see Dwg. 417B-513.



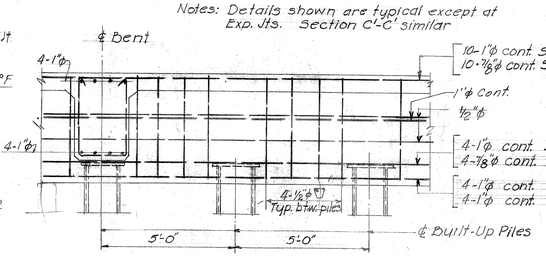
NOTE: Details shown are typical for all beams except those supporting tracks

SECTION A-A

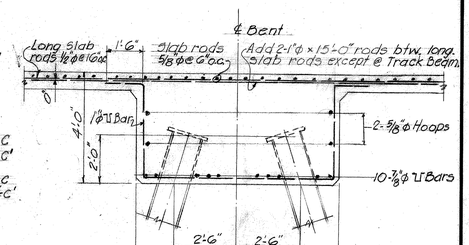


Notes: Detail Typical For Deck Beam at Exp. Jt. Key.

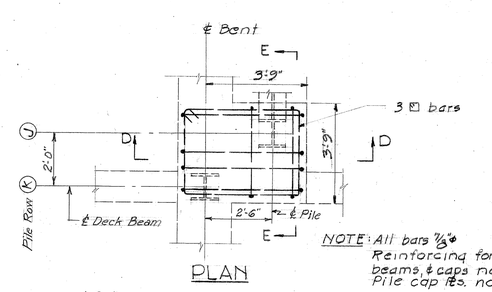
SECTION B-B



SECTION C-C

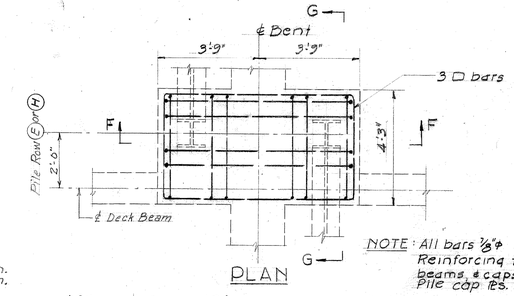


SECTION H-H



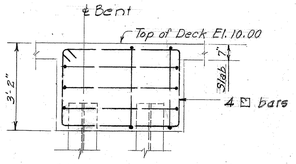
PLAN

NOTE: All bars 7/8"ϕ Reinforcing for slab, beams, & caps not shown. Pile cap ftg. not shown.

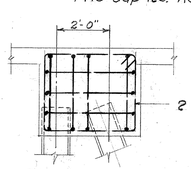


PLAN

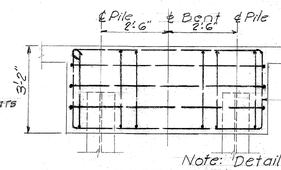
NOTE: All bars 7/8"ϕ Reinforcing for slab, beams, & caps not shown. Pile cap ftg. not shown.



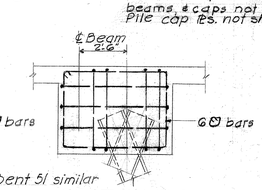
SECTION D-D



SECTION E-E



SECTION F-F



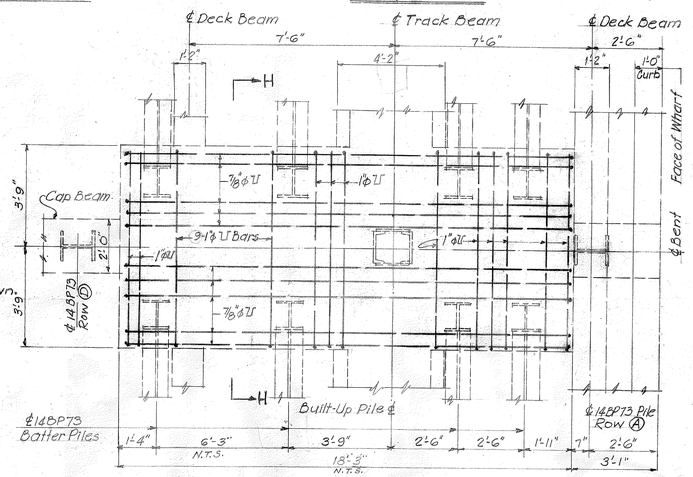
SECTION G-G

Note: Details at Bent 51 similar

BENTS 1 TO 38 INCL.

BENTS 39 TO 50 INCL.

DETAIL AT TRANSVERSE BATTER PILES



Notes: Only bottom reinforcement shown. Pile cap plates not shown.

PLAN AT LONGITUDINAL BATTER PILES - BENTS 7, 20, 32

Notes:
For General Notes & List of Reference Drawings See Dwg. 417B-S3.
Fendering, Conveyor Supports, Electrical Rail & Track Drains are not shown on this drawing.
For location of details see list of reference drawings.

NO.	DATE	BY	REMARKS
2	9-30-52	W.P.	Added longitudinal rods in track beam for rail U-bolts.
1	3-28-52	H.E.	Revised Typical Cross Sections to show increased width at curb on South side. Minor Revisions.
1	3-28-52	W.P.	Relocated Longitudinal Batter Pile @ Bents 7, 20 & 32

REVISIONS

TENNESSEE COAL AND IRON DIVISION
UNITED STATES STEEL COMPANY
FAIRFIELD, ALABAMA

ORE TERMINAL
MOBILE ALABAMA
MAIN WHARF

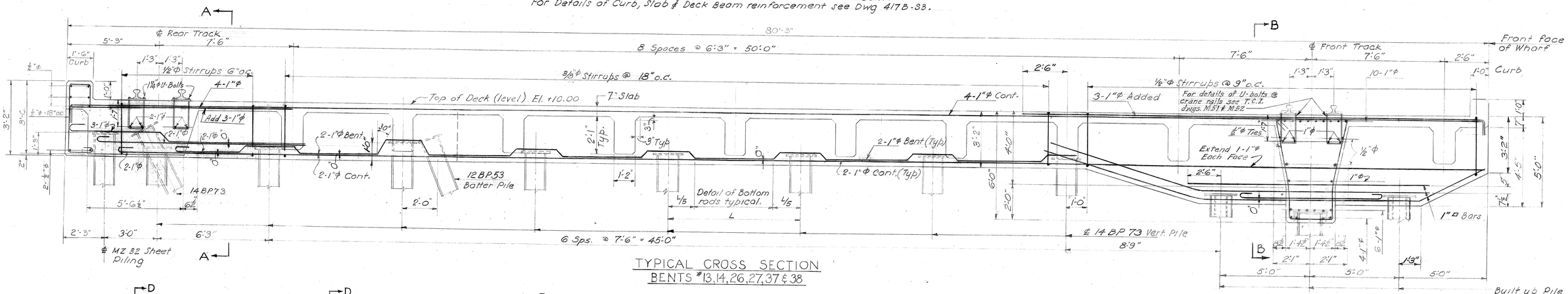
CONCRETE DETAILS I

KNAPPEN TIPPETTS ABBETT ENGINEERING COMPANY
62 WEST 47TH STREET NEW YORK, N. Y.

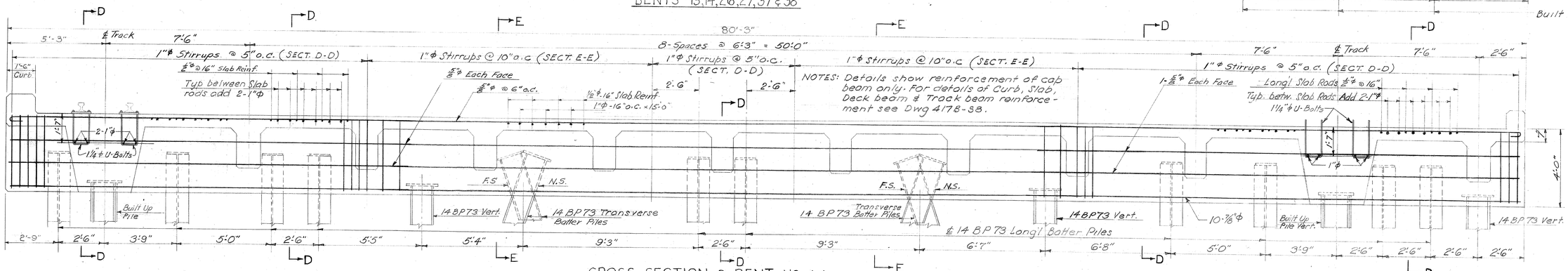
DRAWN BY: M.K.
TRACED BY: M.K.
CHECKED BY: H.E.
SCALE: 3/8" = 1'-0"
DATE: February 4 1952
APPROVED BY: James H. Stratton
DRAWING NO. 417 B-58

417B-S9

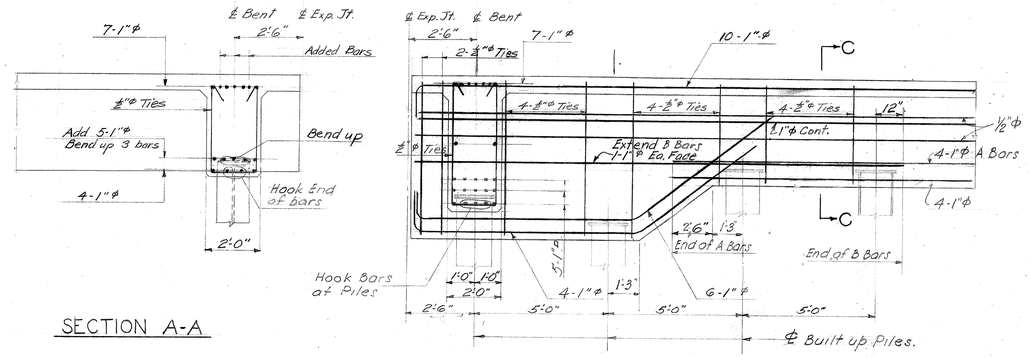
NOTES: Details show reinforcement of Cab Beam and Front Track Beam.
For Details of Curb, Slab & Deck Beam reinforcement see Dwg 417B-S8.



TYPICAL CROSS SECTION
BENTS #13, 14, 26, 27, 37 & 38

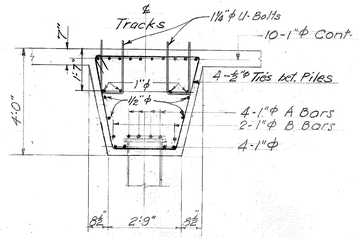


CROSS SECTION @ BENT NO. 44

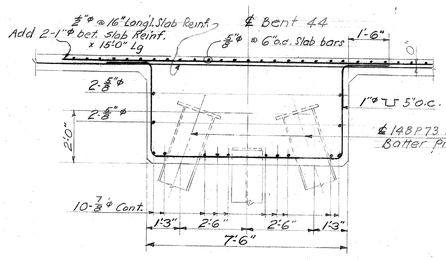


SECTION A-A

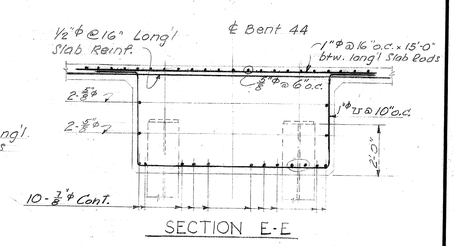
SECTION B-B



SECTION C-C

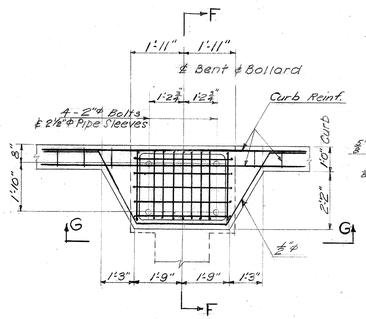


SECTION D-D

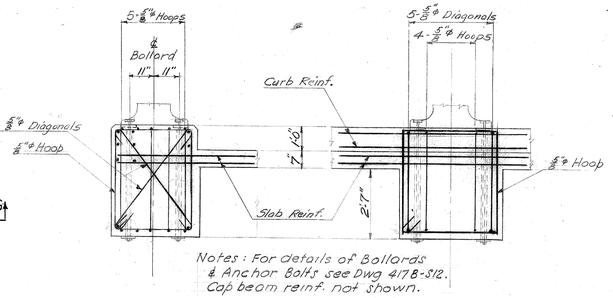


SECTION E-E

NOTES
1. For typical deck reinforcement see Dwg 417B-S8.
2. For General Notes and List of Reference Drawings see Dwg 417B-S3.



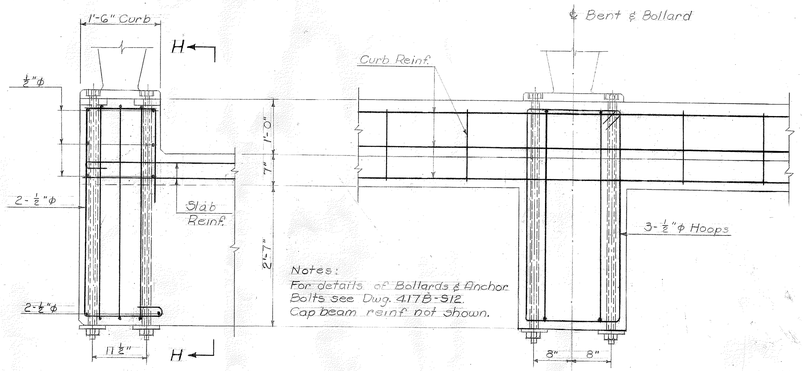
PLAN AT BOLLARD
NORTH SIDE OF WHARF



Notes: For details of Bollards & Anchor Bolts see Dwg 417B-S12.
Cap beam reinf. not shown.

SECTION F-F

SECTION G-G



Notes:
For details of Bollards & Anchor Bolts see Dwg. 417B-S12.
Cap beam reinf. not shown.

SECTION AT BOLLARD
SOUTH SIDE OF WHARF

SECTION H-H

NO.	DATE	BY	REMARKS
2	9/30/52	W.P.	Added longitudinal rods in track beam for rail U-bolts.
1	3/28/52	J.J.K.	Increased width of Wharf & curb on south side. Mooring bitt replaced by bollard on south side of Wharf

REVISIONS

TENNESSEE COAL AND IRON DIVISION
UNITED STATES STEEL COMPANY
FAIRFIELD, ALABAMA

ORE TERMINAL
MOBILE ALABAMA

MAIN WHARF

CONCRETE DETAILS II

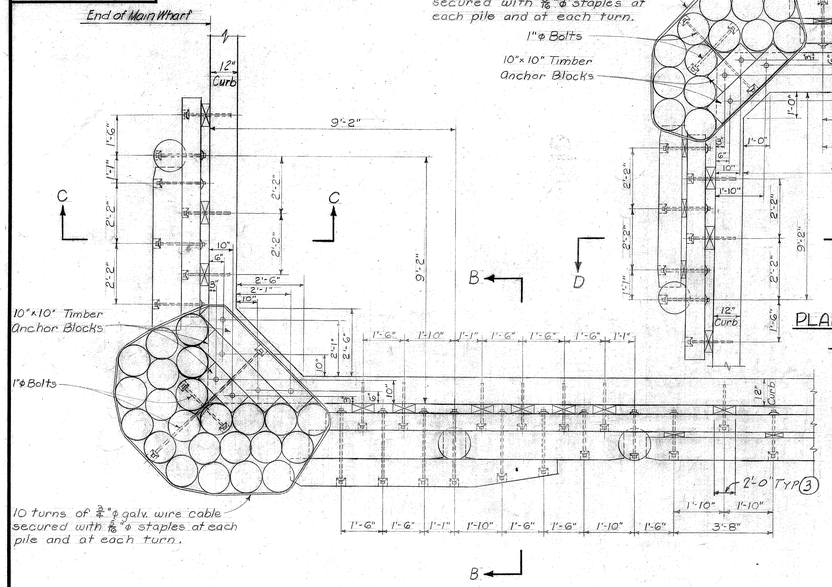
KNAPPEN TIPPETTS ABBETT ENGINEERING COMPANY
62 WEST 47TH STREET NEW YORK, N. Y.

DRAWN BY: G.G.
TRACED BY: G.G.
CHECKED BY: H.E.

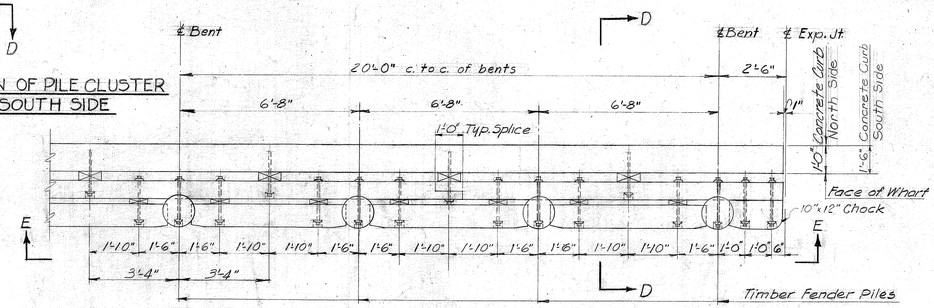
SCALE: 3/8 IN. = 1 FT. & AS NOTED
DATE: February 4, 1952
APPROVED BY: James W. Stratton

DRAWING NO. 417 B-S9

417B-S10



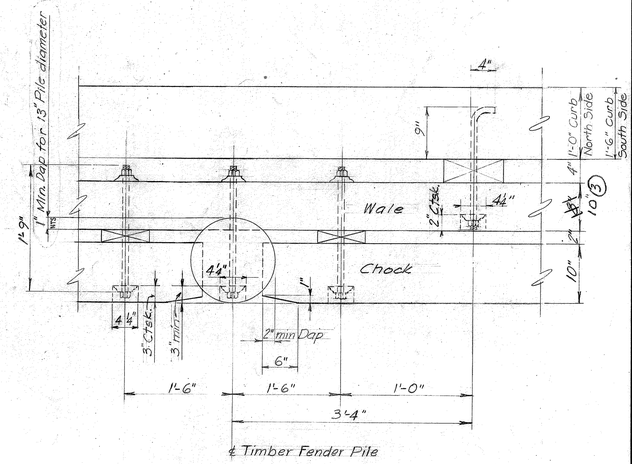
PLAN OF PILE CLUSTER - NORTH SIDE



PLAN OF PILE CLUSTER SOUTH SIDE

Note: Face of pile is not to extend beyond face of chocks.

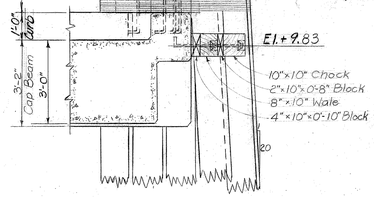
TYPICAL PLAN



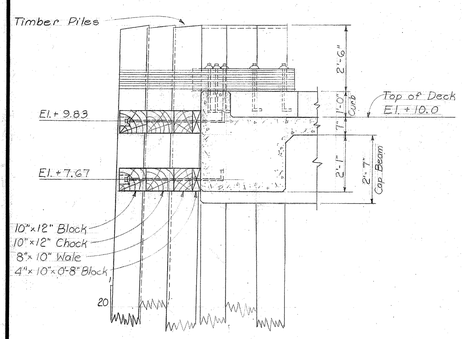
Note: Detail of bolt fastenings typical for all connections at Upper Fendering. Details at Lower Fendering are similar.

SECTION G-G

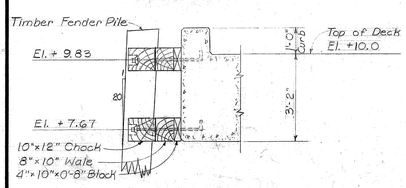
Scale 1"=1'-0"



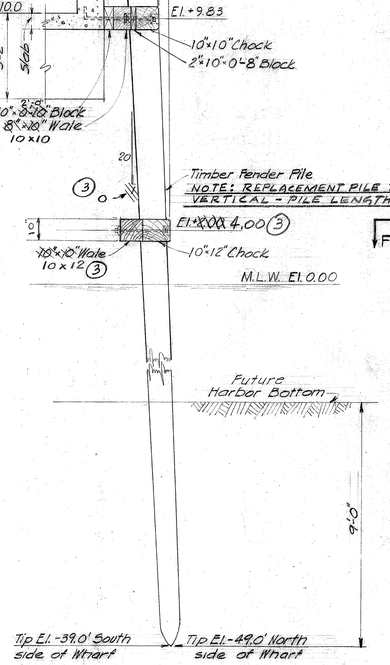
SECTION A-A



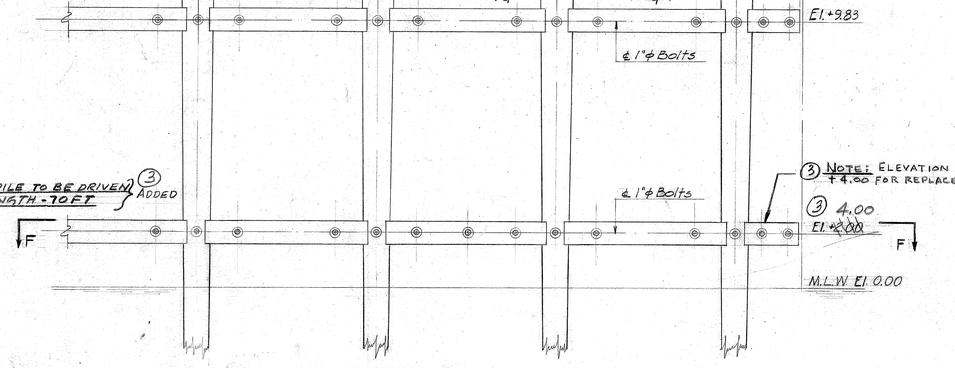
SECTION B-B



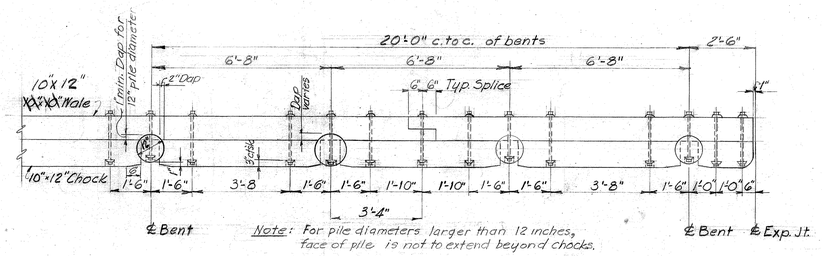
SECTION C-C



SECTION D-D



ELEVATION E-E



Note: For pile diameters larger than 12 inches, face of pile is not to extend beyond chocks.

SECTION F-F

NOTES

Exposed edges of all timber fender chocks to be chamfered ½ inch.
Unless otherwise noted all bolts to be 1"ϕ.
All bolts, nuts, staples & steel washers to be galvanized.
4" C.I. Ogee washers to be used against timber faces.
Fender piles and all other timbers at upper and lower levels on North Side of Wharf and at North Cluster are to be Greenhart only.
All other piles and all other timbers are to be Creosoted Southern Pine or Creosoted Douglas Fir.

REFERENCE DRAWINGS

Pile Plan & Details	417B-S2
Deck Plan I - Bents 1 to 26	417B-S3
Deck Plan II - Bents 27 to 37	417B-S4
Deck Plan III - Bents 38 to 51	417B-S5
Transverse Sections I	417B-S6
Transverse Sections II	417B-S7

NO.	DATE	BY	REMARKS
3	4-16-77	H.T.E.	DIMENSIONS CHANGED & NOTES ADDED FOR REPLACEMENT FENDER PILES.
2	4/3/53	H.E.	Revised minimum dap of pile at pipes in Sections G-G & F-F. Added notes to Sect. F-F & Typical Plan. Located face of chocks in Sect. D-D
1	3/20/52	J.J.K.	Added Plan Of Pile Cluster South Side also Sections B-B & C-C. Revised Plan Of Pile Cluster North Side & minor drafting revisions

REVISIONS

TENNESSEE COAL AND IRON DIVISION
UNITED STATES STEEL COMPANY
FAIRFIELD, ALABAMA

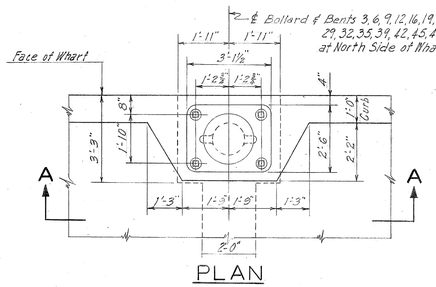
ORE TERMINAL
MOBILE ALABAMA

MAIN WHARF
TIMBER FENDER DETAILS

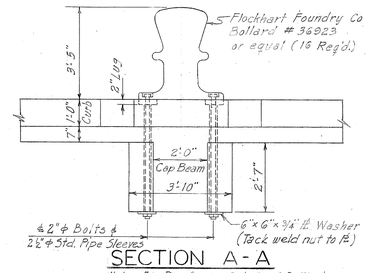
KNAPPEN TIPPETTS ABBETT ENGINEERING COMPANY
62 WEST 47TH STREET NEW YORK, N. Y.

DRAWN BY: SJD & J.J.K.
TRACED BY: SJD & J.J.K.
CHECKED BY: H.E.
SCALE: 3/8"=1'-0" & As Shown
DATE: FEBRUARY 11, 1952
APPROVED BY: James W. Stratton
DRAWING NO. 417 B-S10

417B-S12



PLAN

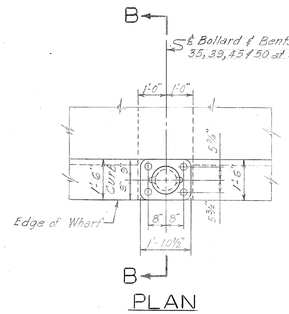


SECTION A-A

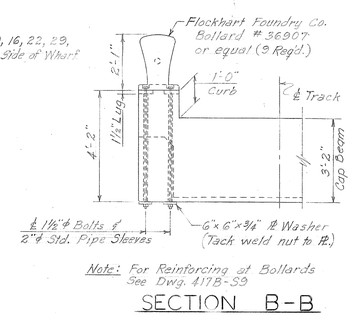
Note: For Reinforcing Details at Bollards See Dwg. 417B-S9

TYPICAL BOLLARD DETAIL NORTH SIDE OF WHARF

Scale: 3/8" = 1'-0"



PLAN

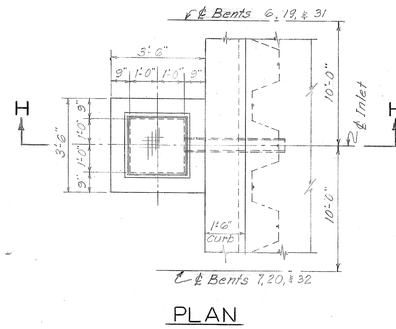


Note: For Reinforcing at Bollards See Dwg. 417B-S9

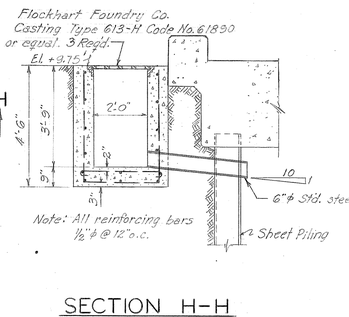
SECTION B-B

TYPICAL BOLLARD DETAIL SOUTH SIDE OF WHARF

Scale: 3/8" = 1'-0"



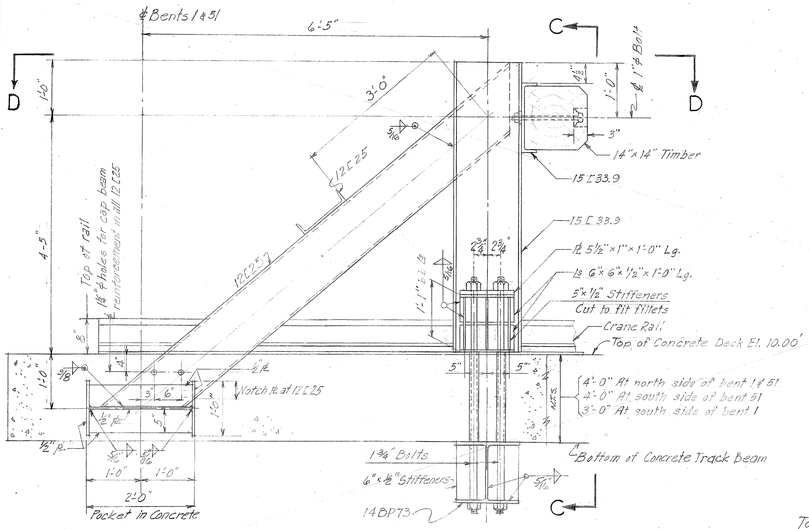
PLAN



SECTION H-H

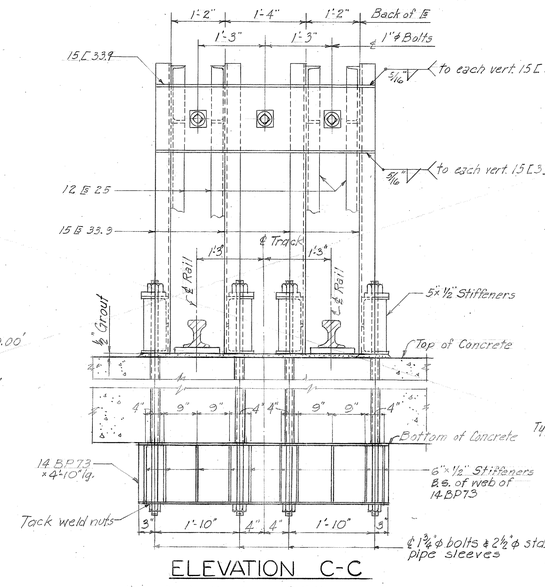
TYPICAL INLET DETAIL

Scale: 3/8" = 1'-0"



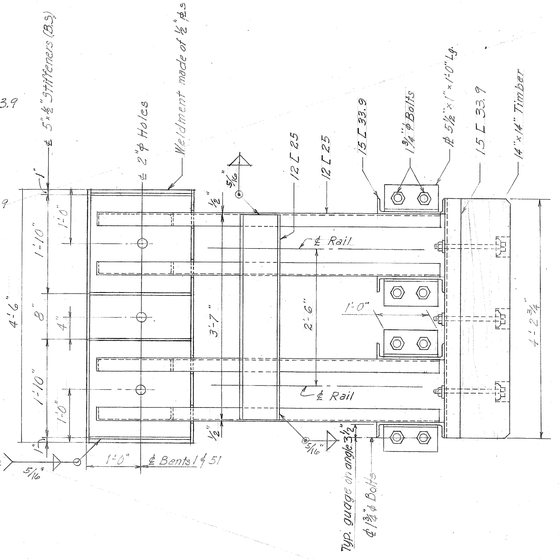
Note: Pocket to be filled with concrete after 12 L 25 is welded to built-up weldment. 4 Crane Rail Stops are req'd.

SIDE ELEVATION

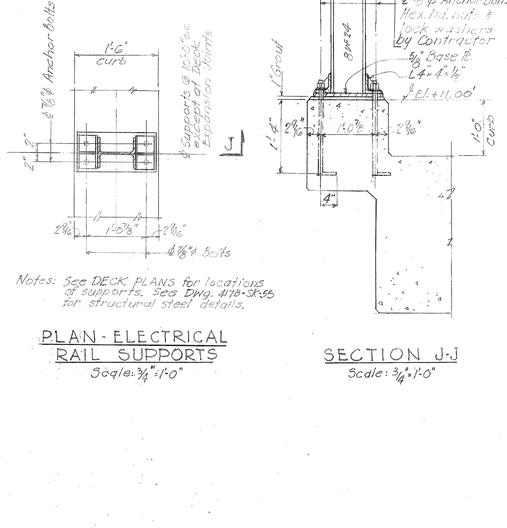


ELEVATION C-C

Note: For location of Crane Rail Stops & dimensions of Crane Rail Stops see Dwgs. 417B-S3 & 417B-S5
For Crane Rail Details see Dwg 417B-S11
Crane Rail is not fastened to Rail Stops



PLAN D-D



Notes: See DECK PLANS for locations of supports. See Dwg. 417B-SK-55 for structural steel details.

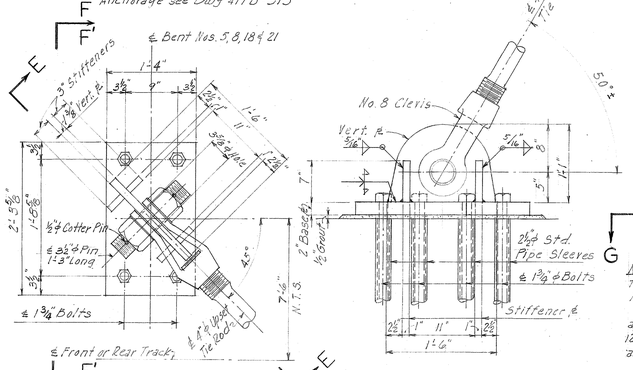
PLAN - ELECTRICAL RAIL SUPPORTS

Scale: 3/4" = 1'-0"

SECTION J-J

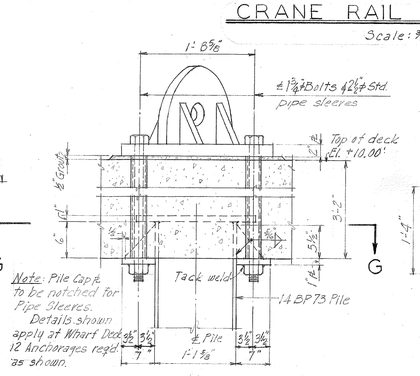
Scale: 3/4" = 1'-0"

Notes: For proper orientation of Anchorage see Deck Plan I - Dwg 417B-S3
For details of reinforcement at Anchorage see Dwg 417B-S13

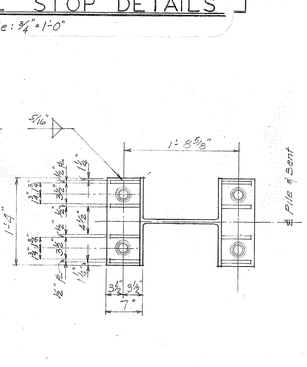


PLAN

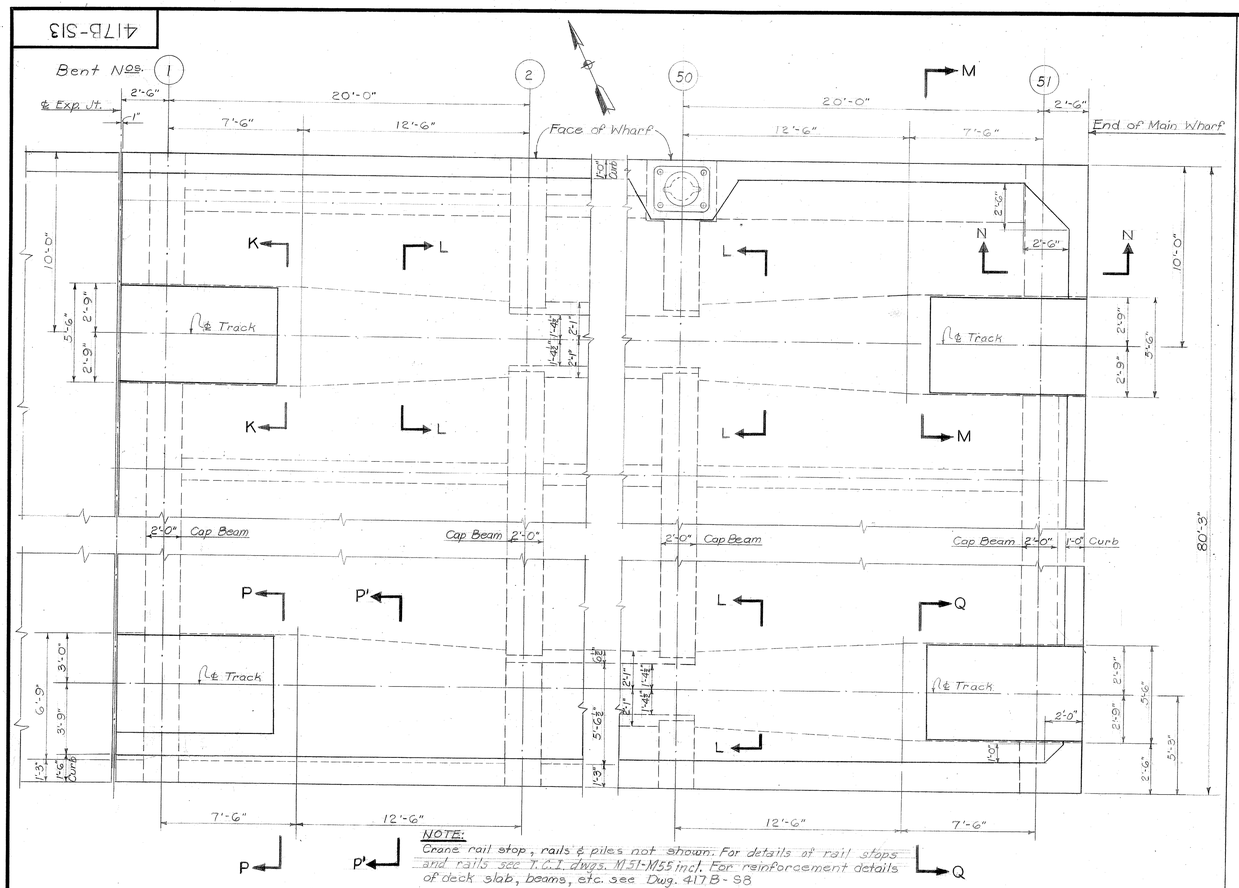
SECTION E-E



SECTION F-F


5/16
1'-8⅝"
1'-4"
℄ Pile
℄ Bent
4½"
4½"
4½"

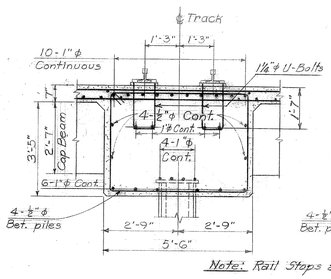
417B-S13



NOTE:
Crane rail stop, rails & piles not shown. For details of rail stops and rails see T.C.I. dwgs. M51-M55 incl. For reinforcement details of deck slab, beams, etc. see Dwg. 417B-S8

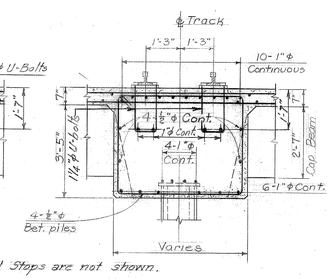
PLAN - TRACK BEAMS AT BENTS 1 & 51

Scale: ¼"=1'-0"

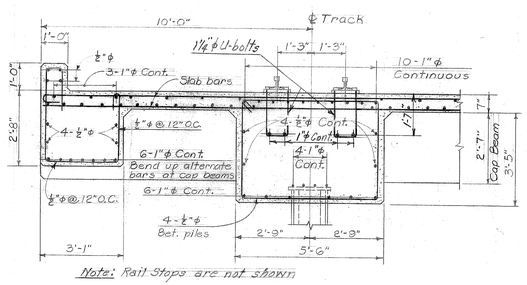


Note: Rail Stops are not shown.

SECTION K-K

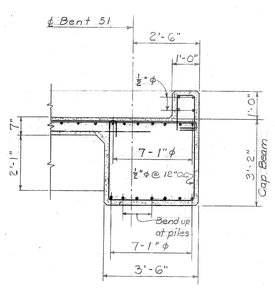


SECTION L-L

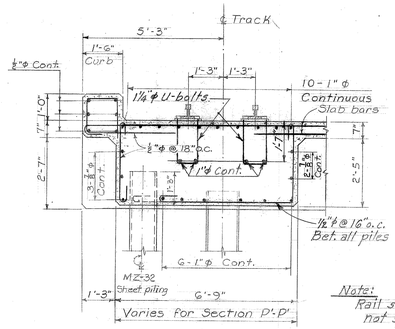


Note: Rail Stops are not shown.

SECTION M-M



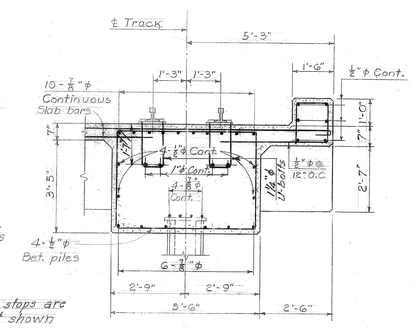
SECTION N-N



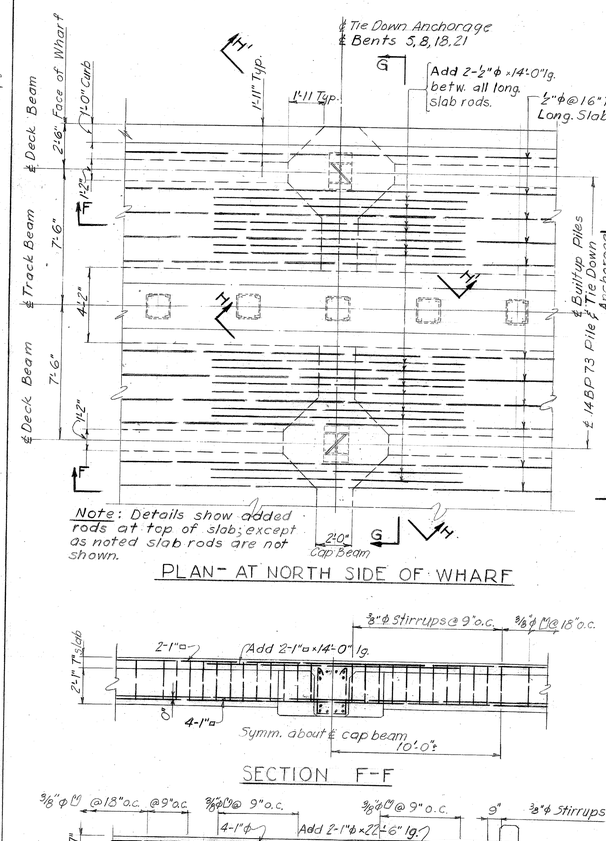
SECTION P-P

SECTION P'-P' SIMILAR

Note: Rail stops are not shown

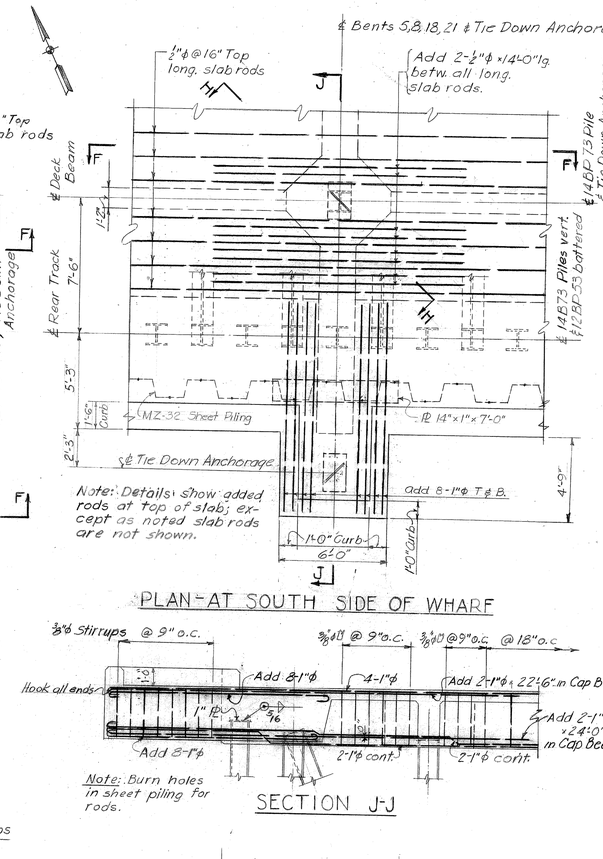


SECTION Q-Q



Note: Details show added rods at top of slab; except as noted slab rods are not shown.

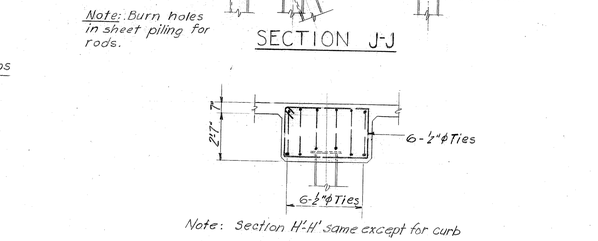
PLAN - AT NORTH SIDE OF WHARF



Note: Details show added rods at top of slab; except as noted slab rods are not shown.

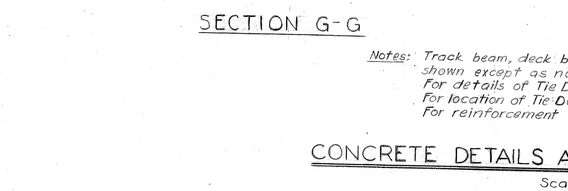
PLAN - AT SOUTH SIDE OF WHARF

SECTION F-F



Note: Burn holes in sheet piling for rods.

SECTION J-J



SECTION G-G

Note: Section H'-H' same except for curb

SECTION H-H

Notes: Track beam, deck beam, and slab reinforcing not shown except as noted.
For details of Tie Down Anchorages see Dwg. No. 417B-S12.
For location of Tie Down Anchorages see Dwg. No. 417B-S3
For reinforcement details of Deck slab, beams, etc. see Dwg. No. 417B-S8.

CONCRETE DETAILS AT TIE DOWN ANCHORAGE

Scale ¼"=1'-0"

REFERENCE DRAWINGS

General Plan _____ 417B-S1
Deck Plan I - Bents 1 to 26 __ 417B-S3
Deck Plan III - Bents 38 to 51 __ 417B-S5
Concrete Details I _____ 417B-S8
Miscellaneous Details I _____ 417B-S12
Rail Stop Details see T.C.I. dwgs. M53, M54 & M55

NO.	DATE	BY	REMARKS
2	9/30/52	W.P.	Added longitudinal bars @ track beam for rail U-bolts. Revised concrete details @ rail stops.
1	9/28/52	J.J.K.	Eliminated Walkway Details and added Plan - Track Beams at Bents 1 & 51 - Revised Plan - South Side of Wharf for 1'-6" Curb.

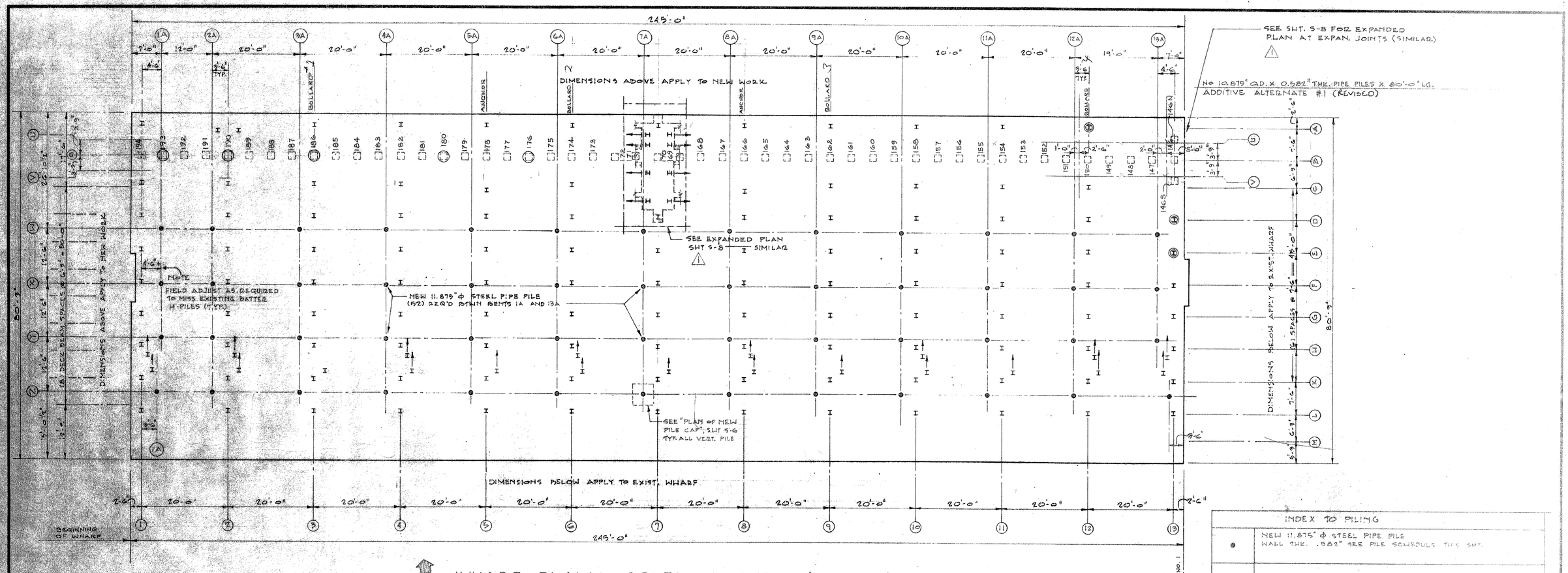
REVISIONS

TENNESSEE COAL AND IRON DIVISION
UNITED STATES STEEL COMPANY
FAIRFIELD, ALABAMA

ORE TERMINAL
MOBILE ALABAMA
MAIN WHARF
MISCELLANEOUS DETAILS II

KNAPPEN TIPPETTS ABBETT ENGINEERING COMPANY
62 WEST 47TH STREET NEW YORK, N. Y.

DRAWN BY: S.J.D. & J.J.K.
TRACED BY: S.J.D. & J.J.K.
CHECKED BY: H.E.
SCALE: ⅜"=1'-0" & As Shown
DATE: February 11, 1952
APPROVED BY: James J. Slatter
DRAWING NO. 417B-S13



WHARF PLAN — BENTS 1 THRU 13 (SECTION 1)

3/32" = 1'-0"

PILE SCHEDULE BENTS 1A THRU 13A

PILE GRID NO.	NEW 11.875"ϕ STEEL PILE	CUTOFF ELEVATION	TIP ELEVATION	NEW PILE LENGTH
1A-W	do	+7.75	-112.25	120.00
1A-X	do	do	do	do
1A-Y	do	do	-72.25	80.00
1A-Z	do	do	do	do
2A-W	do	+7.75	-112.25	120.00
2A-X	do	do	do	do
2A-Y	do	do	-72.25	80.00
2A-Z	do	do	do	do
3A-W	do	+7.75	-112.25	120.00
3A-X	do	do	do	do
3A-Y	do	do	-72.25	80.00
3A-Z	do	do	do	do
4A-W	do	+7.75	-112.25	120.00
4A-X	do	do	do	do
4A-Y	do	do	-72.25	80.00
4A-Z	do	do	do	do

— CON'T —

PILE GRID NO.	NEW 11.875"ϕ STEEL PILE	CUTOFF ELEVATION	TIP ELEVATION	NEW PILE LENGTH
5A-W	do	+7.75	-112.25	120.00
5A-X	do	do	do	do
5A-Y	do	do	-72.25	80.00
5A-Z	do	do	do	do
6A-W	do	+7.75	-112.25	120.00
6A-X	do	do	do	do
6A-Y	do	do	-72.25	80.00
6A-Z	do	do	do	do
7A-W	do	+7.75	-112.25	120.00
7A-X	do	do	do	do
7A-Y	do	do	-72.25	80.00
7A-Z	do	do	do	do
8A-W	do	+7.75	-112.25	120.00
8A-X	do	do	do	do
8A-Y	do	do	-72.25	80.00
8A-Z	do	do	do	do
9A-W	do	+7.75	-112.25	120.00
9A-X	do	do	do	do

— CON'T. —

PILE GRID NO.	NEW 11.875"ϕ STEEL PILE	CUTOFF ELEVATION	TIP ELEVATION	NEW PILE LENGTH
9A-Y	do	+7.75	-72.25	80.00
9A-Z	do	do	do	do
10A-W	do	+7.75	-72.25	80.00
10A-X	do	do	do	do
10A-Y	do	do	do	do
10A-Z	do	do	do	do
11A-W	do	+7.75	-72.25	80.00
11A-X	do	do	do	do
11A-Y	do	do	do	do
11A-Z	do	do	do	do
12A-U	—	—	—	—
12A-V	—	—	—	—
12A-W	do	do	do	do
12A-X	do	do	do	do
12A-Y	do	do	do	do
12A-Z	do	do	do	do
13A-U	—	—	—	—
13A-V	—	—	—	—
13A-W	do	do	do	do
13A-X	do	do	do	do
13A-Y	do	do	do	do
13A-Z	do	do	do	do

INDEX TO PILING

●	NEW 11.875" ϕ STEEL PIPE PILE WALL THK. .982" SEE PILE SCHEDULE THIS SHT.
I	EXIST WF14X78 (NO WORK REQ'D.)
←H	EXIST WF14X53 OR WF14X73 BATTER PILE (NO WORK REQ'D.)
Ⓔ	EXISTING CONC. ENCASED PILE (NO WORK REQ'D.)
⬚	EXISTING SQUARE STEEL PILE (NO WORK REQ'D.)

Sym.	Date	By	Description
1	3/27/98	CTL	REVISED PILE LOCATION (AS BUILT)

Revisions

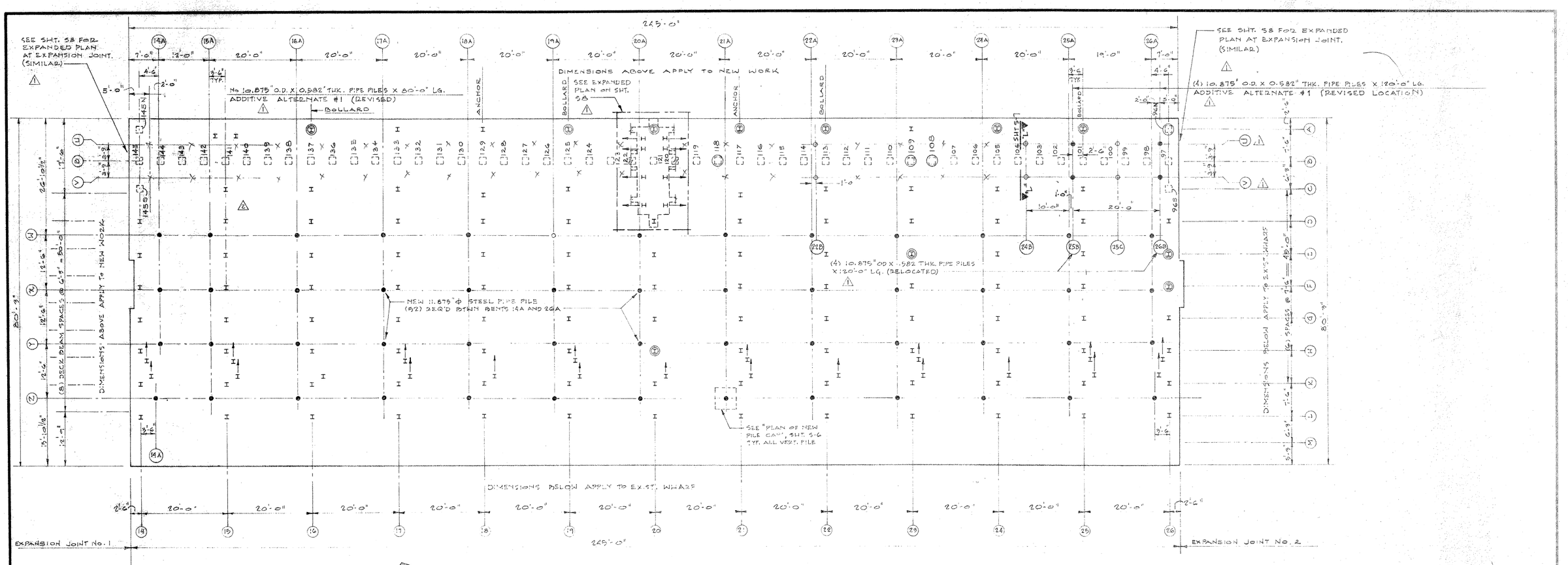
ALABAMA REGISTERED No. 12831 PROFESSIONAL ENGINEER CARSON T. LIPPOLD

First Issue	5-28-97	Designed By	CTL
Issued for Bid		Drawn By	GMB 5-12-97
Issued for Const.		Checked By	CTL
As Built	3/27/98	Approved By	CTL

CLARK, GEER, LATHAM & Associates, Inc.
ENGINEER PLANNER ARCHITECT
762 Downtowner Loop West
Ph. No. (334) 344-7073
Mobile, Alabama 36609
FAX No. (334) 343-9179

MOBILE RIVER TERMINAL COMPANY
MOBILE ALABAMA
INSTALLATION OF NEW WHARF PILING
WHARF PLAN — BENTS 1 THRU 13
Proj. No. 9866 Dwg. No. S-2

SOUTHERN BLUEPRINT 344-6262



WHARF PLAN — BENTS 14 THRU 26 (SECTION 2)

3/32" = 1'-0"

PILE SCHEDULE — BENTS 14A THRU 26A

PILE GRID NO.	NEW 11.875"Φ STEEL PILE	CUTOFF ELEVATION	TIP ELEVATION	NEW PILE LENGTH
14A – U	—	—	—	120.00
14A – V	—	—	—	do
14A – W	do	do	do	80.00
14A – X	do	do	do	do
14A – Y	do	do	do	do
14A – Z	do	do	do	do
15A – U	—	—	—	120.00
15A – V	—	—	—	do
15A – W	do	do	do	80.00
15A – X	do	do	do	do
15A – Y	do	do	do	do
15A – Z	do	do	do	do
16A – W	do	+7.75	-72.25	80.00
16A – X	do	do	do	do
16A – Y	do	do	do	do
16A – Z	do	do	do	do
17A – W	do	+7.75	-72.25	80.00
17A – X	do	do	do	do
17A – Y	do	do	do	do
17A – Z	do	do	do	do

CON'T.

PILE GRID NO.	NEW 11.875"Φ STEEL PILE	CUTOFF ELEVATION	TIP ELEVATION	NEW PILE LENGTH
18A – W	do	+7.75	-72.25	80.00
18A – X	do	do	do	do
18A – Y	do	do	do	do
18A – Z	do	do	do	do
19A – W	do	+7.75	-72.25	80.00
19A – X	do	do	do	do
19A – Y	do	do	do	do
19A – Z	do	do	do	do
20A – W	do	+7.75	-72.25	80.00
20A – X	do	do	do	do
20A – Y	do	do	do	do
20A – Z	do	do	do	do
21A – W	do	+7.75	-72.25	80.00
21A – X	do	do	do	do
21A – Y	do	do	do	do
21A – Z	do	do	do	do
22A – W	do	+7.75	-112.75	120.00
22A – X	do	do	do	do

CON'T.

PILE GRID NO.	NEW 11.875"Φ STEEL PILE	CUTOFF ELEVATION	TIP ELEVATION	NEW PILE LENGTH
22A – Y	do	+7.75	-72.25	80.00
22A – Z	do	do	do	do
22B – U	do	+3.70	-116.30	120.00
22B – V	do	+3.70	-116.30	120.00
23A – W	do	+7.75	-112.75	120.00
23A – X	do	do	do	do
23A – Y	do	do	do	80.00
23A – Z	do	do	do	do
24B – U	do	+3.70	-116.30	120.00
24B – V	do	+3.70	-116.30	120.00
24A – W	do	+7.75	-112.75	120.00
24A – X	do	do	do	do
24A – Y	do	do	do	80.00
24A – Z	do	do	do	do
25B – U	do	+3.70	-116.30	120.00
25B – V	do	+3.70	do	do
25A – W	do	+7.75	-112.75	120.00
25A – X	do	do	do	120.00
25A – Y	do	do	do	80.00
25A – Z	do	do	do	do
26B – U	do	+3.70	-118.30	120.00
26B – V	do	do	do	120.00
26A – W	do	+7.75	-112.75	120.00
26A – X	do	do	do	120.00
26A – Y	do	do	do	80.00
26A – Z	do	do	do	80.00

PILE GRID NO.	NEW 11.875" Φ STEEL PILE	CUTOFF ELEVATION	TIP ELEVATION	NEW PILE LENGTH
25C – U	do	+3.70	-116.30	120.00
25C – V	do	+3.70	-116.30	120.00

INDEX TO PILING

● O	NEW 11.875"Φ STEEL PIPE PILE WALL THK. .582" SEE PILE SCHEDULE THIS SHT. DELOCATED 11.875" Φ STEEL PIPE PILES
I	EXIST. HP14 X 73 (NO WORK REQ'D.)
—H	EXIST. HP14 X 89 OR HP14 X 73 BATTER PILE (NO WORK REQ'D.)
⊛	EXIST. CONC. ENCASED PILE (NO WORK REQ'D.)
□	EXIST. SQUARE STEEL PILE (NO WORK REQ'D.)

Sym	Date	By	Description
2	3-30-98	CTL	DELETE 15B-U & 15B-V REVISE ELEVS.
1	3-27-98	CTL	REVISE PILE LOCATIONS (AS BUILT)

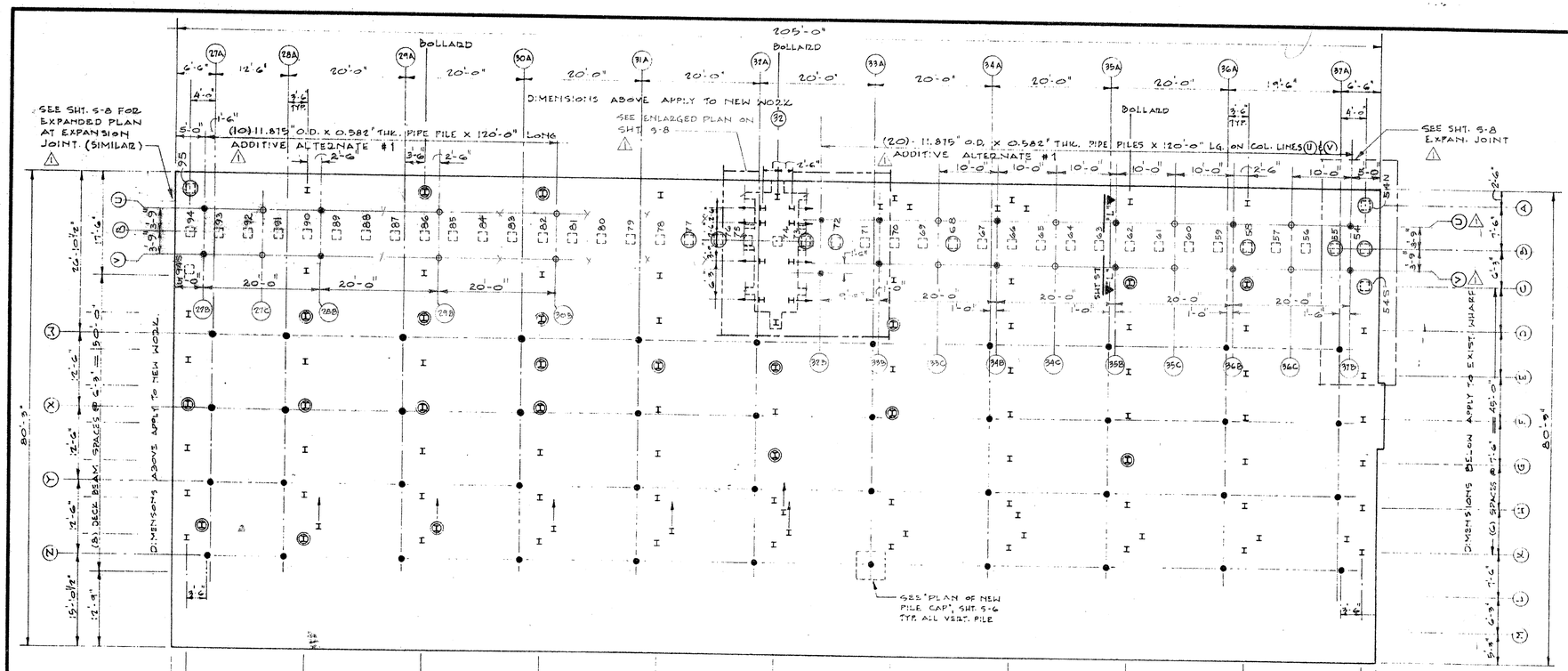
Revisions

First Issue	5-28-97	Designed By	CTL
Issued for Bid		Drawn By	GMS 5-13-97
Issued for Const.		Checked By	CTL
As Built	3/27/98	Approved By	CTL

CLARK, GEER, LATHAM
& Associates, Inc.
ENGINEER PLANNER ARCHITECT
762 Downtowner Loop West
Ph. No. (334) 344-7073
Mobile, Alabama 36609
FAX No. (334) 343-9179

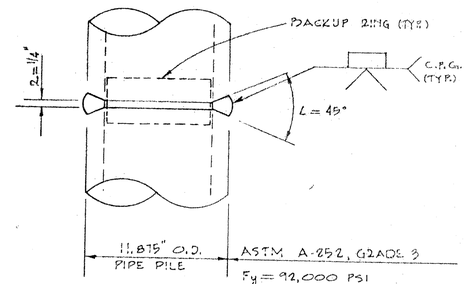
MOBILE RIVER TERMINAL COMPANY
MOBILE ALABAMA
INSTALLATION OF NEW WHARF PILING
WHARF PLAN — BENTS 14 THRU 26
Proj. No.
Dwg. No.

SOUTHERN BLUEPRINT 584553



WHARF PLAN — BENTS 27 THRU 37 (SECTION 3)

3/32" = 1'-0"



TYPICAL COMPLETE PENETRATION GROOVE WELD FOR ALL PIPE PILING

No Scale

NOTE #1: COMPLETE PENETRATION GROOVE WELD SHALL BE ACHIEVED BY USING GAS SHIELDED FLUX CORED ELECTRODE FOR CONTINUOUS HIGH DEPOSITION ARC WELDING. CONTRACTOR SHALL USE TRI-MARK - TRIPLE-7 GAS SHIELDED FLUX CORED ELECTRODE CONFORMING TO CLASS E71T-1M-H8 PER AWS A5.20-95 OR AN APPROVED EQUAL.

TYPICAL MECHANICAL PROPERTIES AS FOLLOWS:

E71T-1	SHIELDING GAS	TENSILE STRENGTH (PSI)	YIELD STRENGTH (PSI)
TRIPLE-7	75% Ar2Gen/ 25% CO_2	93,000	82,000

PILE SCHEDULE — BENTS 27A THRU 37A

PILE GRID No.	NEW 11.875"ϕ STEEL PILE	CUTOFF ELEVATION	TIP ELEVATION	NEW PILE LENGTH
27B - U	do	+1.70	-118.30	120.00
27B - V	do	do	do	do
27A - W	do	+7.75	-112.50	do
27A - X	do	do	do	do
27A - Y	do	do	-72.75	80.00
27B - Z	do	do	do	do
28B - U	do	+3.70	-116.30	120.00
28 - V	do	do	do	do
28A - W	do	+7.75	-72.25	80.00
28A - X	do	do	do	do
28A - Y	do	do	do	80.00
28A - Z	do	do	do	do
27C - U	do	+3.70	-116.30	120.00
27C - V	do	+3.70	-116.30	120.00
29A - W	do	+7.75	-72.25	80.00
29A - X	do	do	do	do
29A - Y	do	do	do	do
29A - Z	do	do	do	do
29B - U	do	+3.70	-116.30	120.00
29B - V	do	+3.70	-116.30	120.00
30A - W	do	+7.75	-72.25	80.00
30A - X	do	do	do	do

CONT.

PILE GRID No.	NEW 11.875"ϕ STEEL PILE	CUTOFF ELEVATION	TIP ELEVATION	NEW PILE LENGTH
30A - Y	do	+7.75	-72.25	80.00
30A - Z	do	do	do	do
30B - U	do	+3.70	-116.30	120.00
30B - V	do	do	-116.30	120.00
31A - W	do	+7.75	-112.50	120.00
31A - X	do	do	do	do
31A - Y	do	do	-72.25	80.00
31A - Z	do	do	do	do
32B - U	do	+3.70	-116.30	120.00
32B - V	do	do	do	do
32A - W	do	+7.75	-112.50	120.00
32A - X	do	do	do	do
32A - Y	do	do	-72.25	80.00
32A - Z	do	do	do	do
33B - U	do	+3.70	-116.30	120.00
33B - V	do	do	do	do
33A - W	do	+7.75	-112.50	120.00
33A - X	do	do	do	do
33A - Y	do	do	-72.25	80.00
33A - Z	do	do	do	do
33C - U	do	+3.70	-116.30	120.00
33C - V	do	do	do	do
34B - U	do	do	do	do
34B - V	do	do	do	do
34C - U	do	do	do	do
34C - V	do	do	do	do
35C - U	do	do	do	do
35C - V	do	do	do	do

CONT.

PILE GRID No	NEW 11.875"ϕ STEEL PILE	CUTOFF ELEVATION	TIP ELEVATION	NEW PILE LENGTH
34A - W	do	+7.75	-112.50	120.00
34A - X	do	do	do	do
34A - Y	do	do	do	do
34A - Z	do	do	do	do
35B - U	do	+3.70	-116.30	120.00
35B - V	do	do	do	do
35A - W	do	do	-112.50	do
35A - X	do	do	do	do
35A - Y	do	do	do	do
35A - Z	do	do	do	do
36B - U	do	+3.70	-116.30	120.00
36B - V	do	do	do	do
36A - W	do	do	-112.50	do
36A - X	do	do	do	do
36A - Y	do	do	do	do
36A - Z	do	do	do	do
37B - U	do	+3.70	-118.30	120.00
37B - V	do	do	do	do
37A - W	do	+7.75	-112.50	do
37A - X	do	do	do	do
37A - Y	do	do	do	do
37A - Z	do	do	do	do
36C - U	do	+3.70	-116.30	120.00
36C - V	do	do	do	do

INDEX TO PILING

●	NEW 11.875"ϕ STEEL PIPE PILE WALL THK. .582" SEE PILE SCHEDULE THIS SHT.
⚠1 o	RELOCATED 11.875"ϕ STEEL PIPE PILE (BATTERED) FROM S-4
I	EXIST. WF14 x 73 (NO WORK REQ'D.)
⟵H	EXIST. HP14x89 OR HP14 x 73 BATTER PILE (NO WORK REQ'D.)
⊕	EXIST. CONC. ENCASED PILE (NO WORK REQ'D.)
▯	EXIST. SQUARE STEEL PILE (NO WORK REQ'D.)

Sym	Date	By	Description
2	3/31/98	CTL	REVISED PILING CUT OFF/TIP ELEVS.
1	3/27/98	CTL	REVISED PILE LOCATIONS (AS BUILT)

Revisions

First Issue	5-28-97
Issued for Bid	
Issued for Const.	
As Built	3/27/98
Designed By	CTL
Drawn By	GMD 5-13-97
Checked By	CTL
Approved By	CTL

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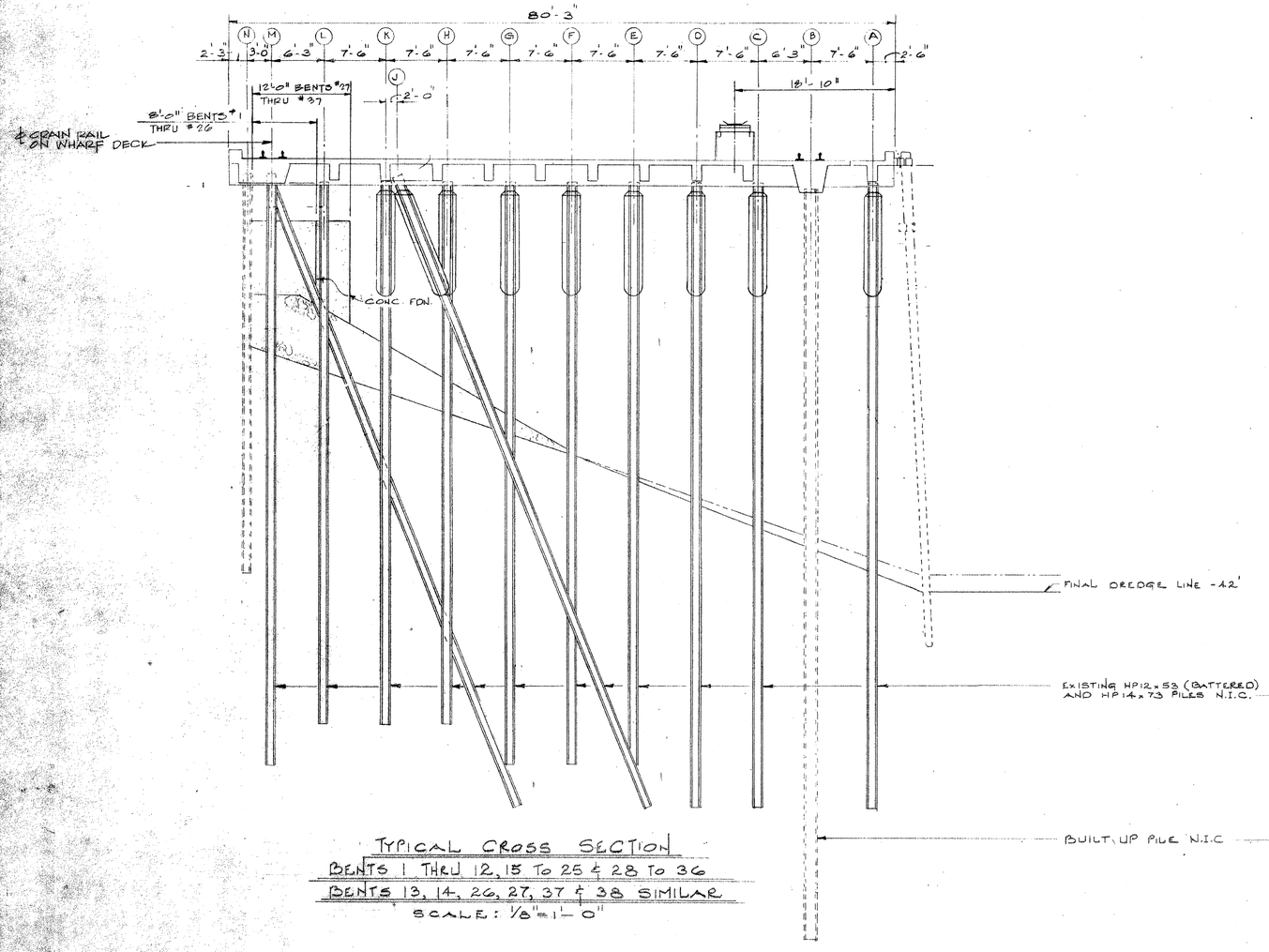
MOBILE RIVER TERMINAL COMPANY
MOBILE ALABAMA

INSTALLATION OF NEW WHARF PILING

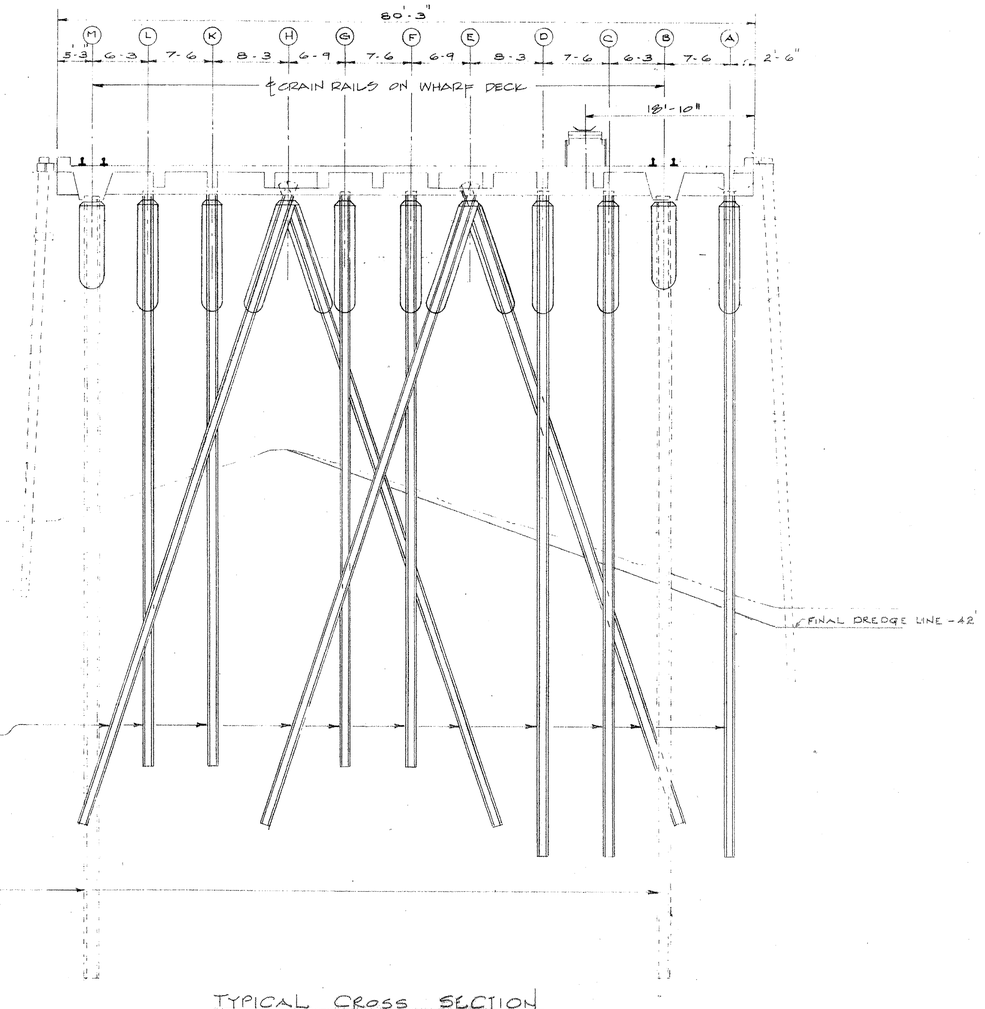
WHARF PLAN — BENTS 27 THRU 37

Proj. No. 9866 | Dwg. No. S-3

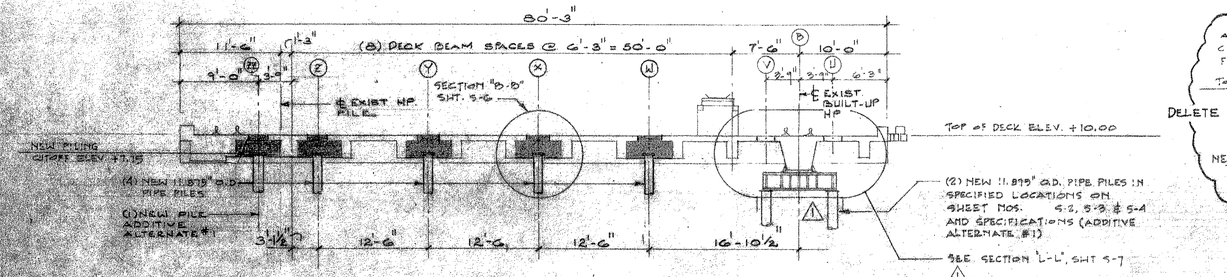
SOUTHERN BLUEPRINT 344552



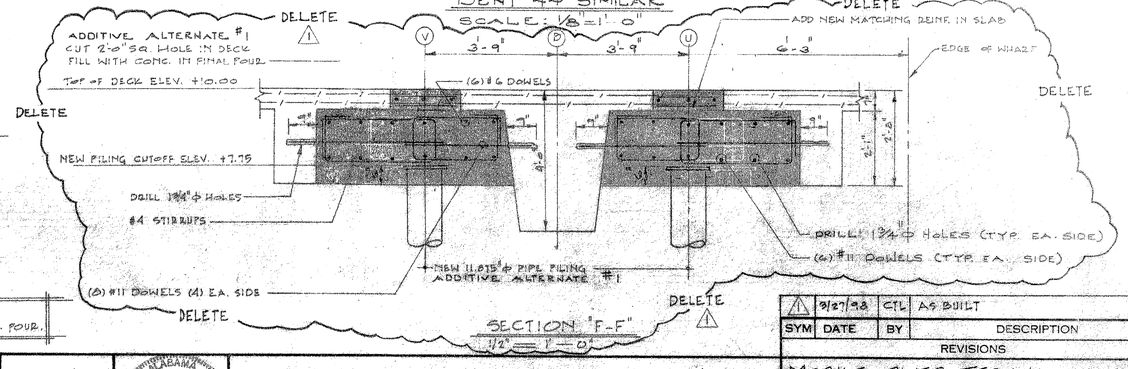
TYPICAL CROSS SECTION
BENTS 1 THRU 12, 15 TO 25 & 28 TO 36
BENTS 13, 14, 26, 27, 37 & 38 SIMILAR
SCALE: 1/8"=1'-0"



TYPICAL CROSS SECTION
BENTS 39 TO 43 & 45 TO 51
BENT 44 SIMILAR
SCALE: 1/8"=1'-0"



TYPICAL CROSS SECTION
BENTS 1 THRU 51
SCALE: 1/8"=1'-0"



SYM	DATE	BY	DESCRIPTION
			REVISIONS
1	9/27/93	CTL	AS BUILT

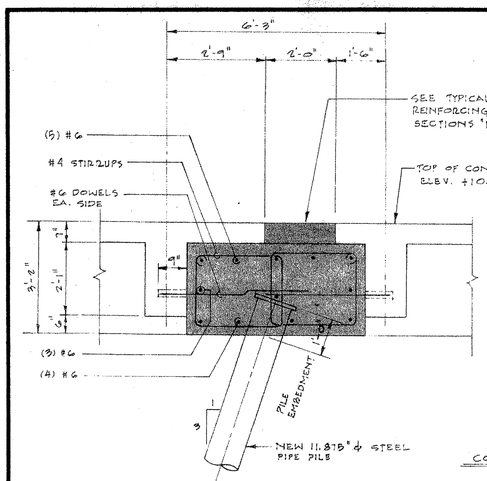
ALABAMA REGISTERED No. 12031 PROFESSIONAL ENGINEER CARSON T. LIPPOLIS

CLARK AND GEER
CONSULTING ENGINEERS
One Office Park Mobile, Alabama

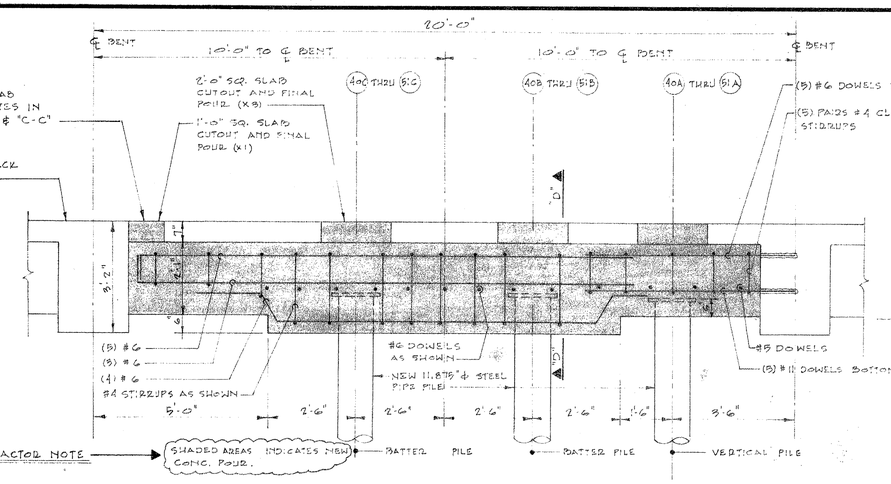
Drawn By: WFJ Job No: 9866 Sheet No: S-5
Ck'd. By: C.T.L. Date:

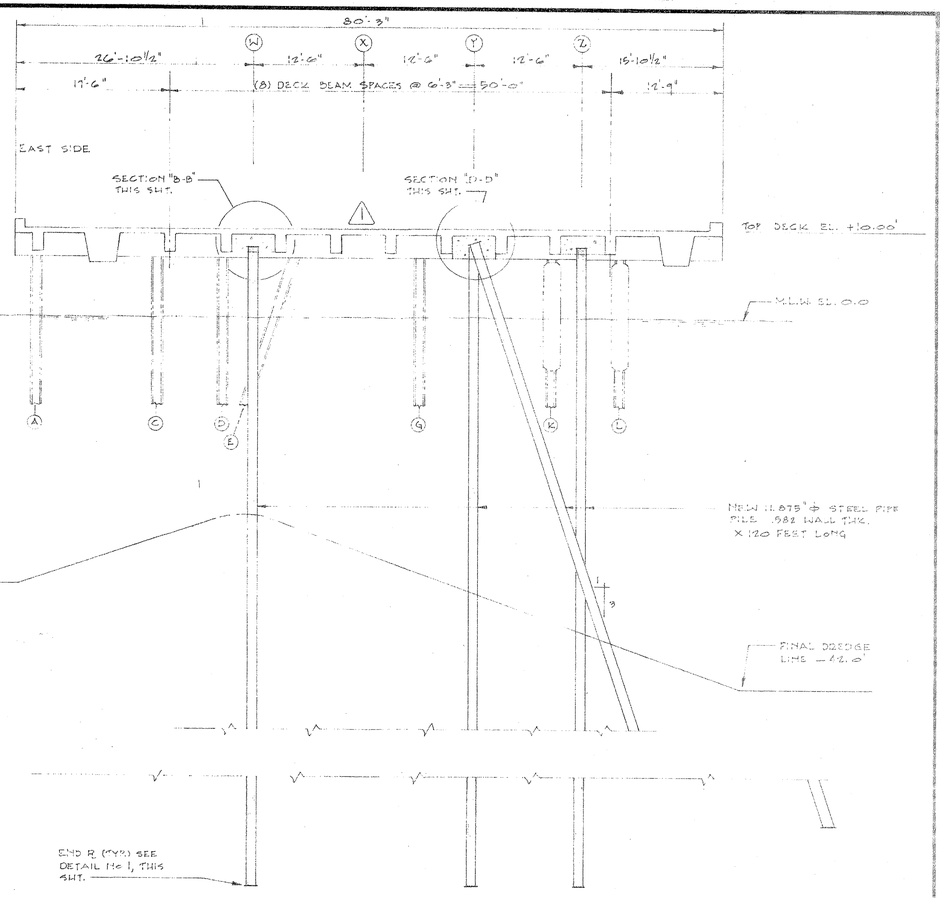
MOBILE RIVER TERMINAL COMPANY
MOBILE ALABAMA
INSTALLATION OF NEW WHARF PILING
TYPICAL CROSS SECTIONS

DRAWING 4021.4043.1

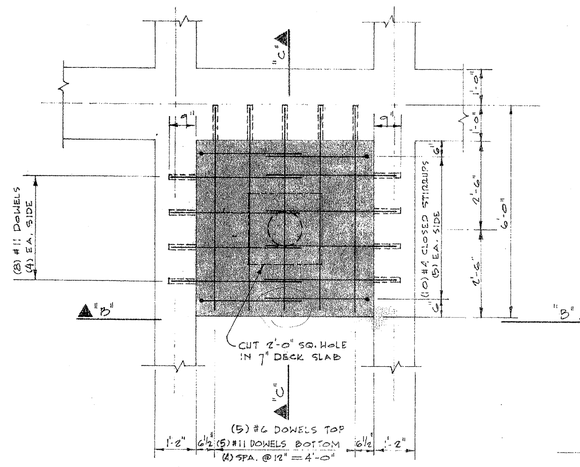


SECTION "D-D"
1/2" = 1'-0"

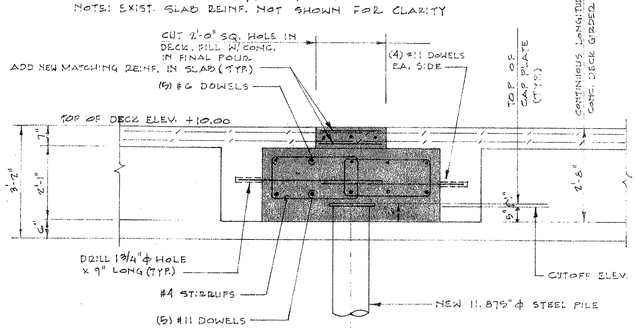




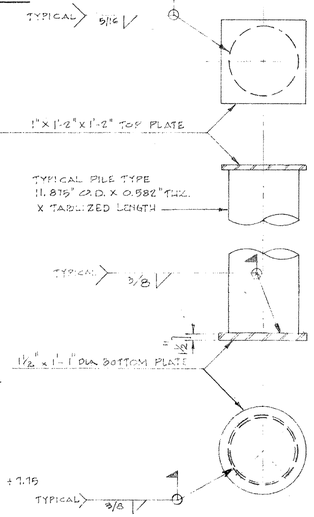
SECTION "A-A" Looking East
1/8" = 1'-0"
CUT AT COL LINE 46D, SHT. S-4



TYPICAL PLAN OF NEW PILE CAP IN EXISTING WHARF DECK
1/2" = 1'-0"
NOTE: EXIST. SLAB REINF. NOT SHOWN FOR CLARITY



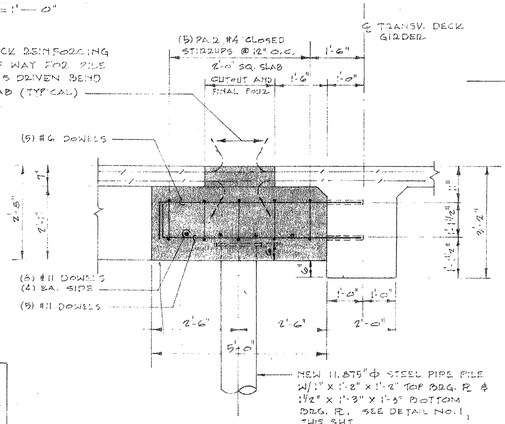
SECTION "B-B"
1/2" = 1'-0"



SEE SHT S-3 FOR TYP. PIPE SPLICE DETAIL.

DETAIL NO. 1 — TOP AND BOTTOM PLATES
No SCALE

NOTE:
FIELD BEND EXIST. DECK REINFORCING (UP OR DOWN) OUT OF WAY FOR PILE DRIVING. AFTER PILE IS DRIVEN BEND REINF. BACK INTO SLAB (TYPICAL)



SECTION "C-C"
1/2" = 1'-0"

DEVISED SCHEDULE OF PILES

SUMMARY OF PILE REQUIRED IN WHARF SECTIONS

LOCATION	REFER SHT.	VERTICAL PILE LENGTH	NO. PILE REQ'D.	BATTER PILE LENGTH	NO. PILE REQ'D	VERTICAL PILE LENGTH	NO. PILES REQ'D.
BENTS 1 THRU 13 — SECTION 1	SHEET S-1	80 FT & 120 FT	34 + 18 = 52	———	———	———	0
BENTS 14 THRU 26 — SECTION 2	" S-2	80 FT & 120 FT	42 + 10 = 52	———	———	120 FT	8 ⚠2
BENTS 27 THRU 37 — SECTION 3	" S-3	80 FT & 120 FT	11 + 30 = 44	———	———	120 FT	30
BENTS 38 THRU 51 — SECTION 4	" S-4	120 FT	56	120 FT	14	120 FT.	15
TOTAL			204				53 ⚠2

⚠1 ADDITIVE ALTERNATE PILES INSTALLED ON COLUMN LINES U AND V.

Sym	Date	By	Description
			Revisions
⚠2	8/31/98	CTL	DELETED TWO (2) PILING
⚠1	2/27/98	CTL	REVISE PILE LOCATIONS (AS BUILT)
△			
△			

First Issue	5/28/97
Issued for Bid	
Issued for Const.	
As Built	8/27/98
Designed By	CTL
Drawn By	GMB 8/14/97
Checked By	CTL
Approved By	CTL

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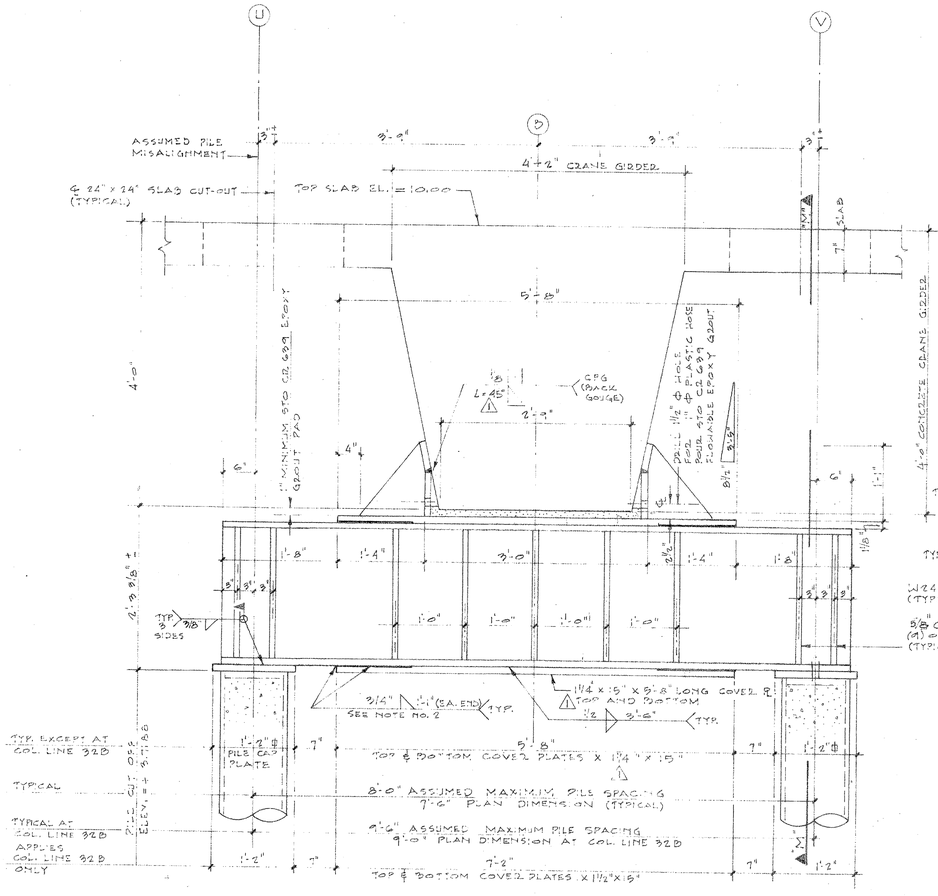
MOBILE RIVER TERMINAL COMPANY
MOBILE ALABAMA
INSTALLATION OF NEW WHARF PILING
SECTIONS, DETAILS AND SCHEDULES
Proj. No. 9866 Dwg. No. S-6

SOUTHERN BLUEPRINT 584552



SECTION "L-L" LOOKING EAST

1" = 1'-0"

SECTION "M-M"

1" = 1'-0"

NOTE No. 1 — PROTECTIVE COATING FOR STRUCTURAL STEEL. BITUMASTIC PAINT SHALL BE No. 50 BY KOPPERS. NO THINNING WILL BE PERMITTED. APPLY HEAVY COAT TO SURFACES OF ALL STRUCTURAL STEEL AND GUSSET PLATES.

NOTE No. 2 USE 3/8" FILLET WELD AT COL. LINE 32B

Sym	Date	By	Description
△			
△			
△			
1	3/31/98	CTL	CHANGED THK. OF COVER PL.

Revisions

First Issue		Designed By	CTL
Issued for Bid		Drawn By	GD
Issued for Const.		Checked By	CTL
As Built	3/27/98	Approved By	CTL

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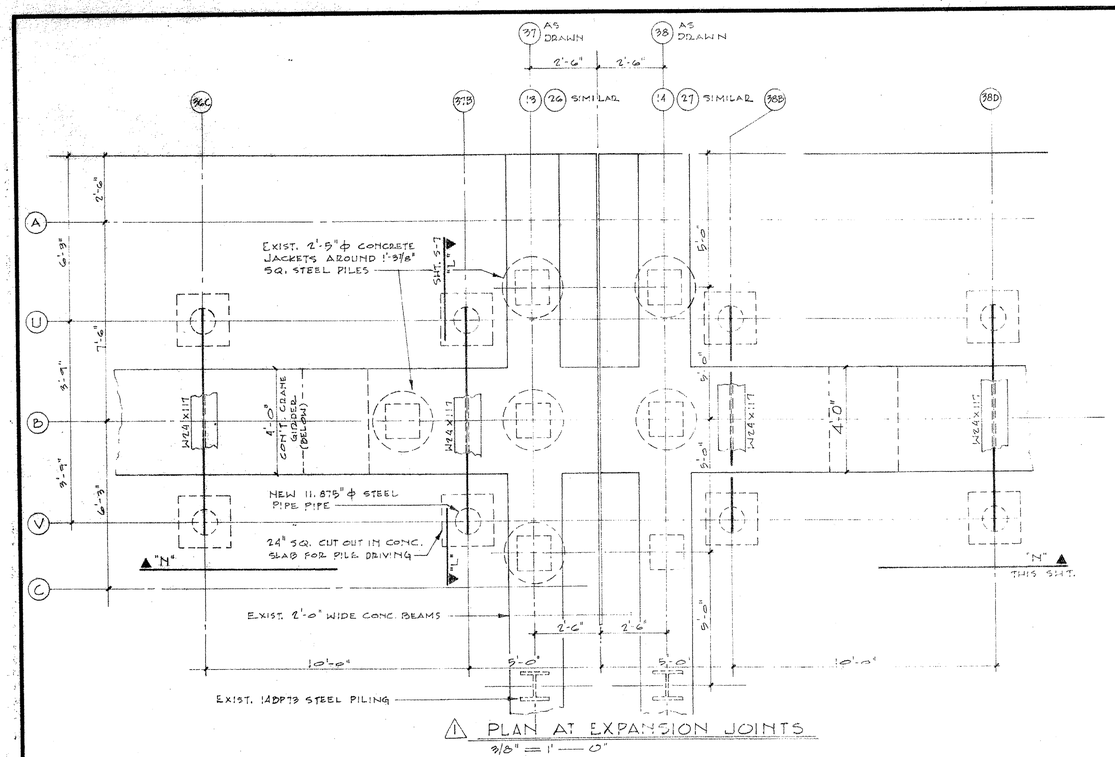
MOBILE RIVER TERMINAL COMPANY
MOBILE ALABAMA

INSTALLATION OF NEW WHARF PILING

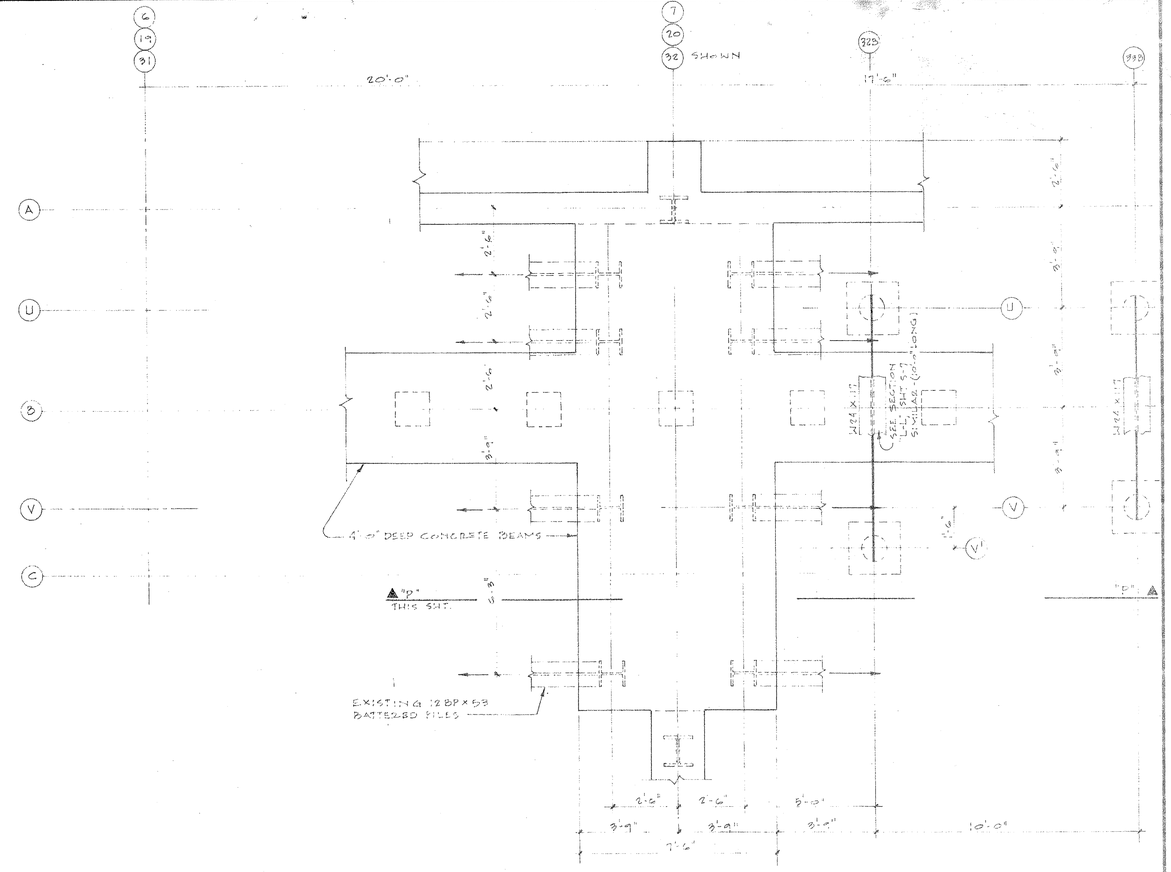
SECTIONS AND DETAILS

Proj. No. 9866 Dwg. No. S-7

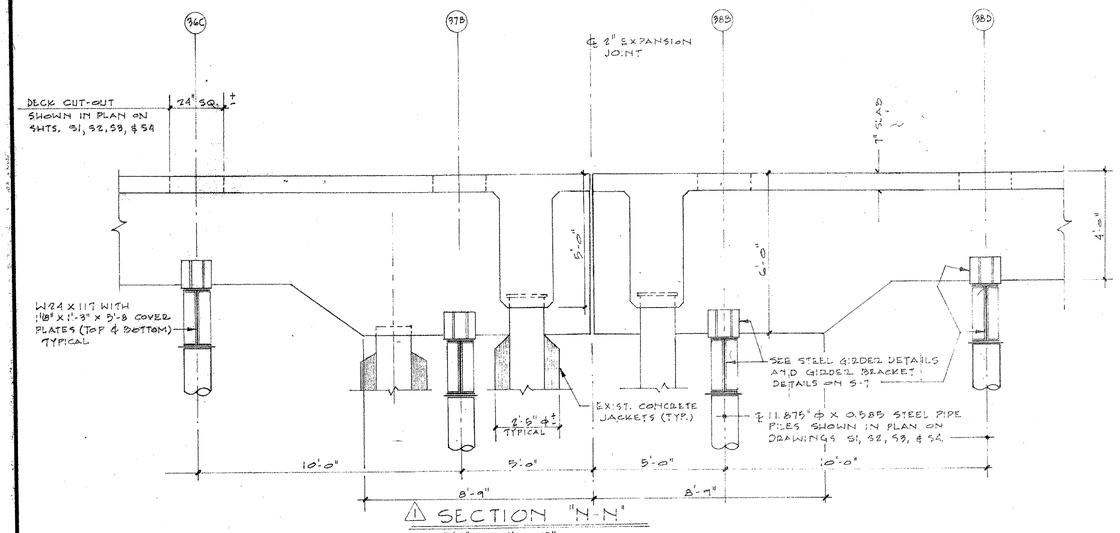
SOUTHERN BLUEPRINT 334552



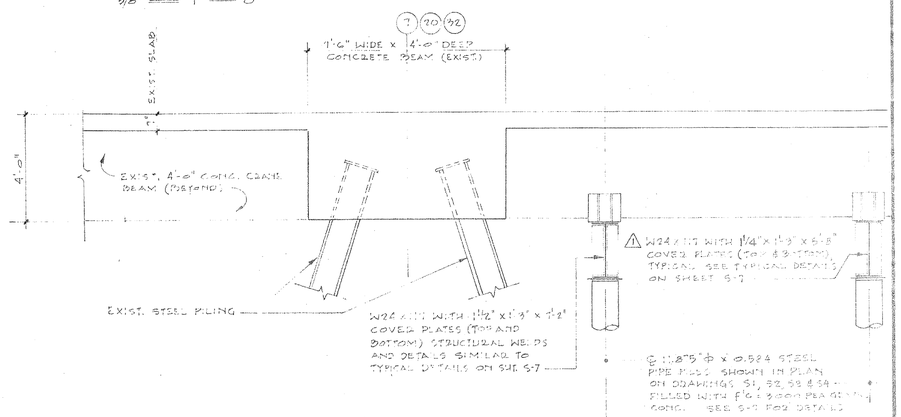
PLAN AT EXPANSION JOINTS
3/8" = 1'-0"



PLAN AT LONGITUDINAL BATTER PILES — BENTS 7, 20, & 32
3/8" = 1'-0"



SECTION "N-N"
3/8" = 1'-0"



SECTION "P-P"
3/8" = 1'-0"

Sym	Date	By	Description
△			
△			
△			
△	3/31/98	CTL	REVISED CONDITION AT EXPAN. JTS.

Revisions

First Issue		Designed By	CTL
Issued for Bid		Drawn By	GB
Issued for Const.		Checked By	CTL
As Built	3/27/98	Approved By	CTL

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MOBILE RIVER TERMINAL COMPANY
MOBILE ALABAMA
INSTALLATION OF NEW WHARF PILING
EXPANDED PLANS, SECTIONS AND DETAILS
Proj. No. [illegible] Dwg. No. S-8

SOUTHERN BLUEPRINT 584552