

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. Dwg. M51 to M55 Incl.
Weigh Station - Foundation Plan & Details	417B-S122

9	7/5/60	R.R.	ADDED FUEL OIL LINE
8	4/23/53	AAL	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.R.	List of Reference Dwg. & Macadam Pavement Revised
5	9/3/52	W.R.	Relocated & of Weigh Station
NO.	DATE	BY	REMARKS

REVISIONS

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

REVISIONS

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

ORE TERMINAL
MOBILE ALABAMA

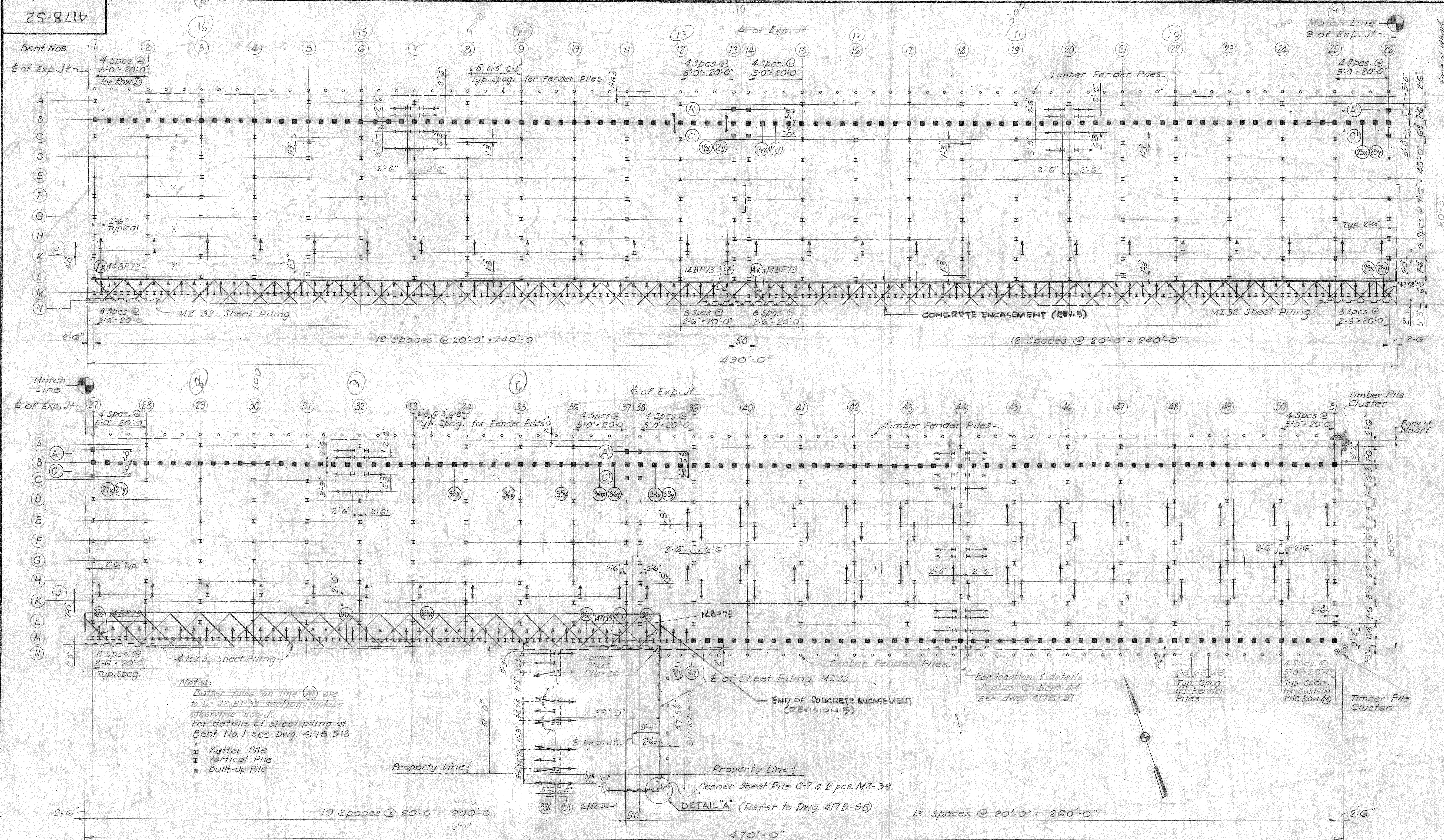
MAIN WHARF
GENERAL PLAN

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

DRAWN BY: H.R.P.
TRACED BY: H.R.P.
CHECKED BY: H.E.

SCALE: 1" = 50'-0"
DATE: February 4, 1962
APPROVED BY: *James H. Tipton*

DRAWING NO.
417B-S1



PILE SCHEDULE

LOCATION	No. Piles	Length	Remarks
14 BP 73 Vertical 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-H13, K1-K13, L1-L13	39	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, H24, L26	38	7.33	70'
E26, F26, G26	3	7.33	75'
D26	1	7.33	80'
H14-H25, K14-K25, L14-L25	36	7.33	65' For Row K for others
K26	1	7.33	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-E31, F27-F31, G27-G31	15	7.33	75'
H27-H31, K27-K31, L27-L31	15	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	7.33	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	7.33	95'
M34-M36	12	8.00	95'
A39-A43, A45-A51, C39-C43, C45-C51, D37-D43, D45-D51	36	7.33	110'
E37-E43, F37-F43, F45-F51, G37-G43, G45-G51	30	7.33	110'
H37-H43, K37-K43, K45-K51, L37-L43, L45-L51	28	7.33	110'
M37-M43x	4	7.33	110'
M38-M43y	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 & M2x	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	7.33	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 2 1/2 Batt. Design Load = 60 Tons
M1-M38x	133	8.00	80' Trans. 1 on 2 1/2 Batt. Design Load = 70 Tons
Line 35X	10	2.50	80' Batter 1 on 3 Design Load = 40 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-B25x, B27y-B33x	118	+6.50	85'
A13, A14, C13, C14, A26, A27, C26, C27	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'
A37, A38, A37, C38	4	+5.50	105'
B36y, B37, B38, B38x	4	+4.50	105'
B38y-B51	51	+6.50	105'
M39-M51	49	+6.50	105' Design Load = 100 Tons
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' CG 38B, A-B-7"
Corner C7	1	9.50	50' CG 38A, A-B-7"
Spares	5	—	50'
Line 38x - MZ-38 Sheet Piling	2	9.50	60' Use 2 spares listed on Dwg. 417B-518

Timber Fender Pile Schedule			
Location	No. Piles	Length	Remarks
North side of pier	144	11.00	60' Batter 1 on 20
South side of pier	39	11.00	60' 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'

NOTES

All elevations refer to M.L.W. E.I.O.O.
 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-56.

REFERENCE DRAWINGS

Transverse Section I 417B-56
 Transverse Section II 417B-57
 Timber Fender Details 417B-510
 Main Wharf - Deck Plans Bents 38-51 417B-55
 West Barge Wharf - Plans & Elevations 417B-513

No.	Date	By	Remarks
5			ADD CONCRETE ENCASUREMENT
4	5/13/52	W.R.	Relocated and added 12 BP 53 Piles on lines
3	4/28/52	H.E.	Revised Layout of sheet pile bulkhead at Property Line & Minor Drafting changes
2	3/28/52	W.R.	Increased width of Main Pier & revised dimensions accordingly
1	3-7-52	H.E.	Increased number of Timber Piles at North Side of Main Pier
1	3-7-52	W.R.	Plans of 14 BP 73 piles Bents 32 & 51 revised. Layout of Built-Up piles shown & welding at pile cap to be revised.
1	3-7-52	W.R.	Relocated pile 65 at Bent 38 & added 12 Long Batter pile at Bent 7. 7-20-52 Revision in Notes & Refer. Drawg.
No.	Date	By	Remarks
REVISIONS			

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

ORE TERMINAL
 MOBILE ALABAMA

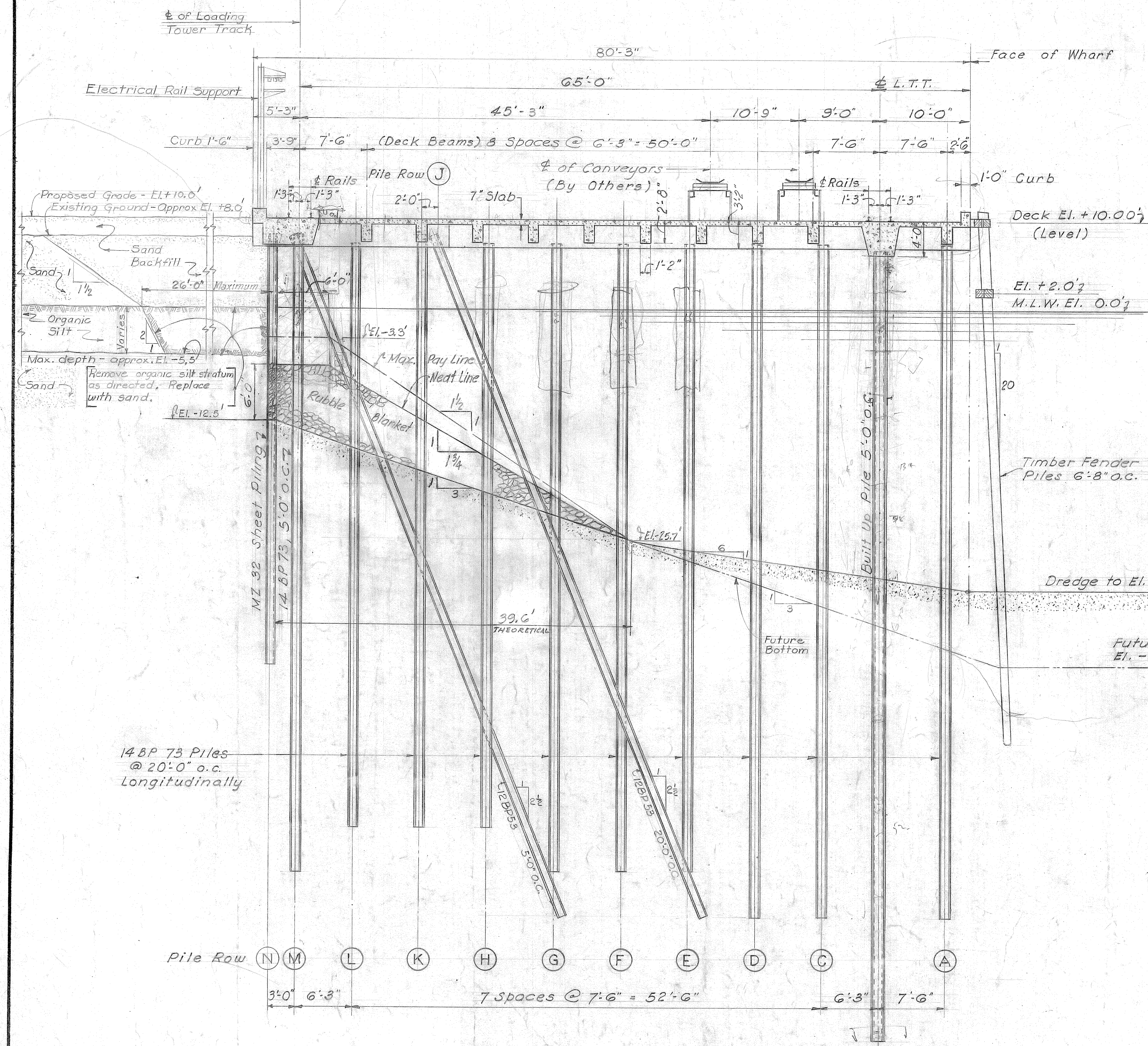
MAIN WHARF
 PILE PLAN & DETAILS

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

DRAWN BY: H. R. P.
 TRACED BY: W. R.
 CHECKED BY: H. E.

SCALE: AS NOTED
 DATE: February 4, 1952
 APPROVED BY: *James H. Trotter*

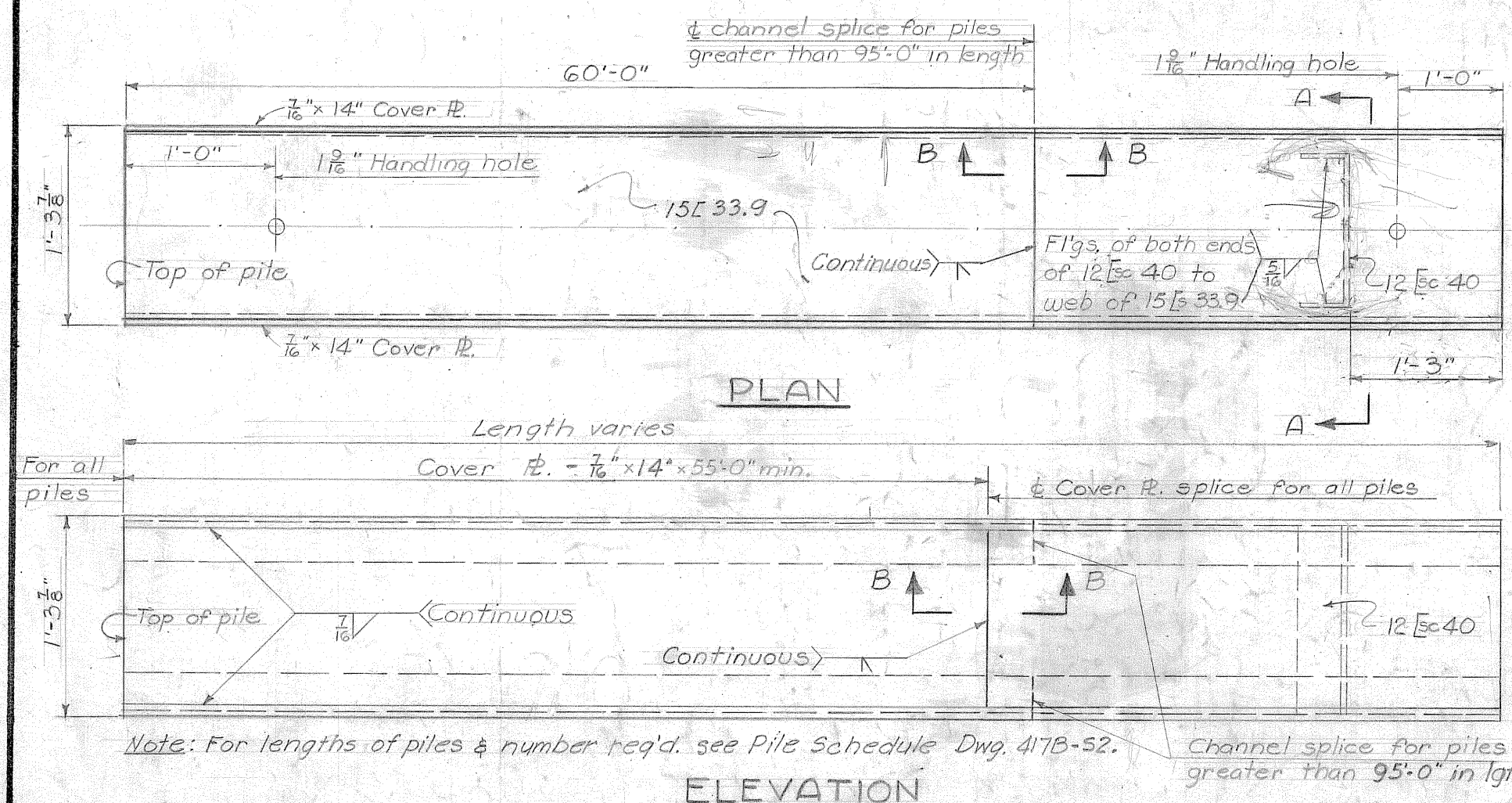
DRAWING NO.
 417B-S2



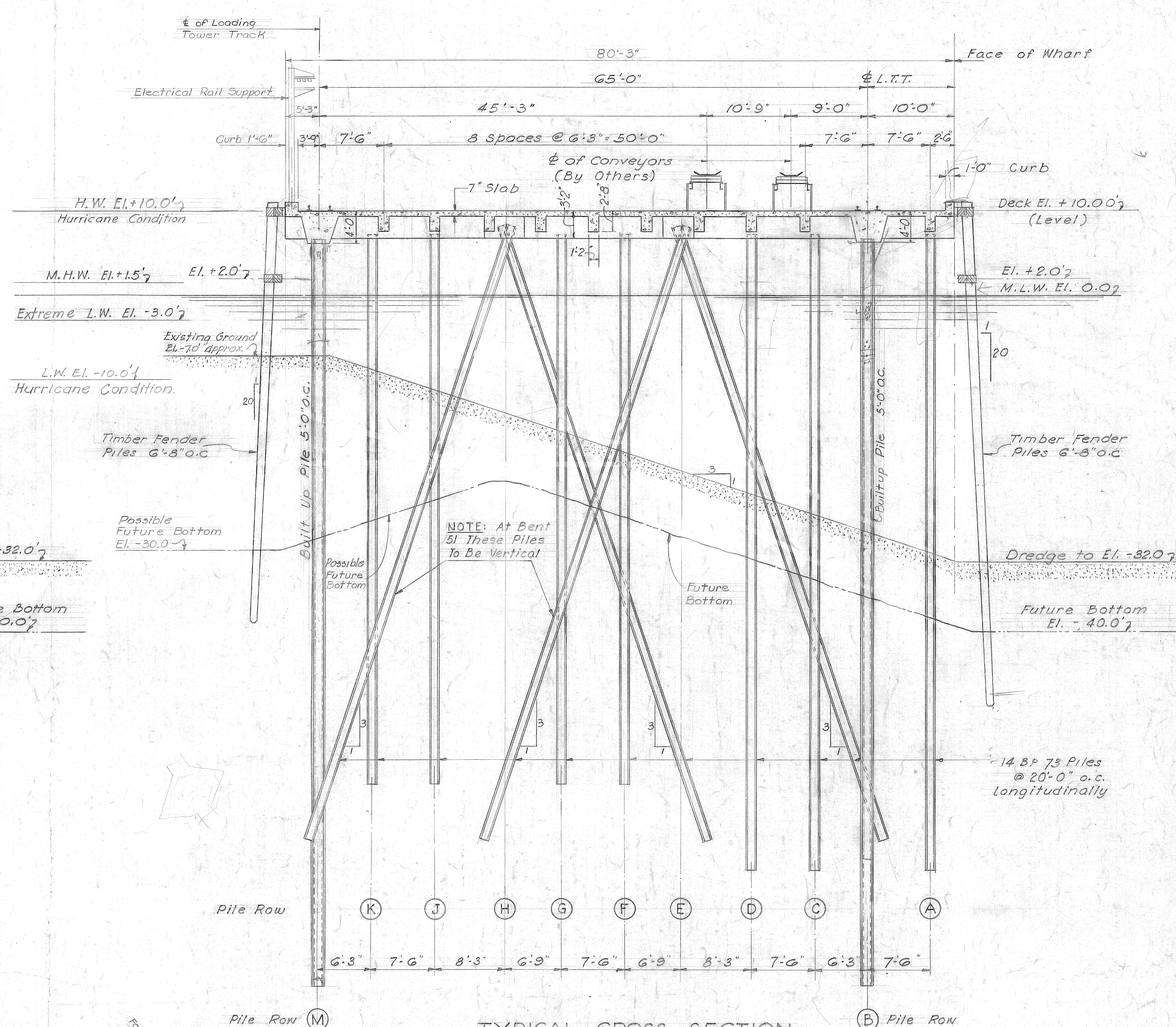
TYPICAL CROSS SECTION (B) *Pile Row*

BENTS 1 to 6, 8 to 12, 15 to 19, 21 to 25, 28 to 31, 33 to 36

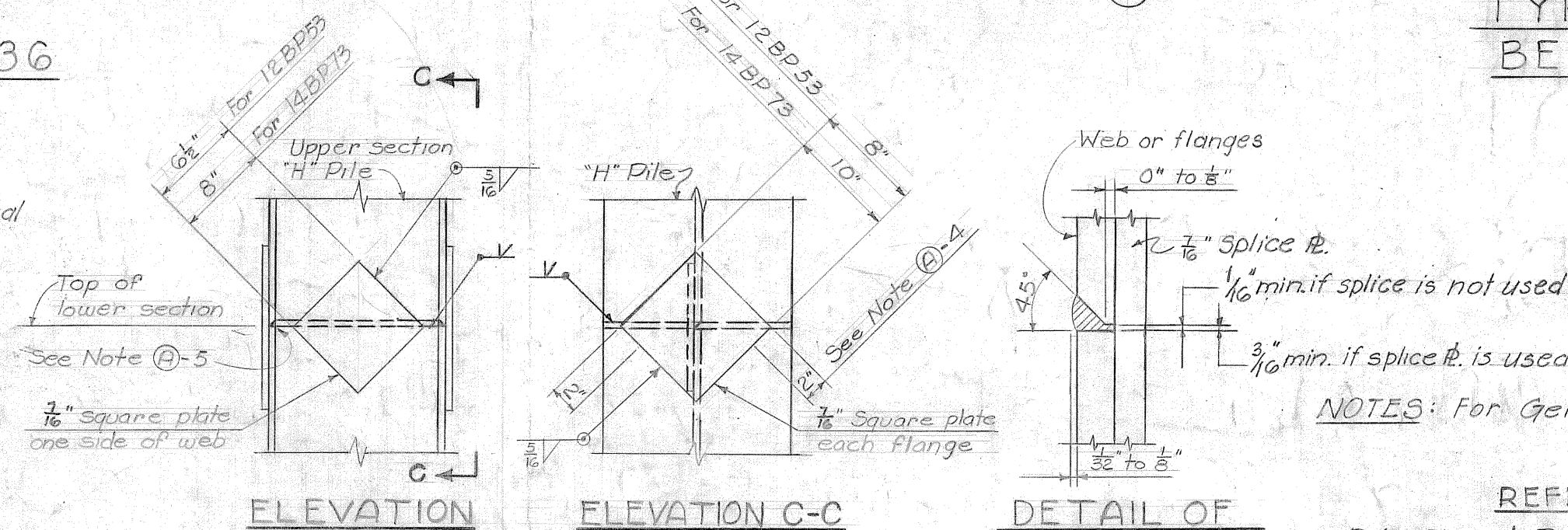
Scale $\frac{1}{8}" = 1'-0"$



DETAILS OF BUILT UP PILES
Scale: 1" = 1'-0"



TYPICAL CROSS SECTION
BENTS 39 TO 43 & 45 TO 51
Scale 1/8" = 1'-0"



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

REFERENCE DRAWINGS

Pile Plan & Details	417B-32
Deck Plan I- Bents 1 to 26	417B-33
Deck Plan II- Bents 27 to 37	417B-34
Deck Plan III- Bents 38 to 51	417B-35
Concrete Details I	417B-38

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. F.

SCALE AS NOTED

DATE: February 4, 1952

NAME: James H. St...

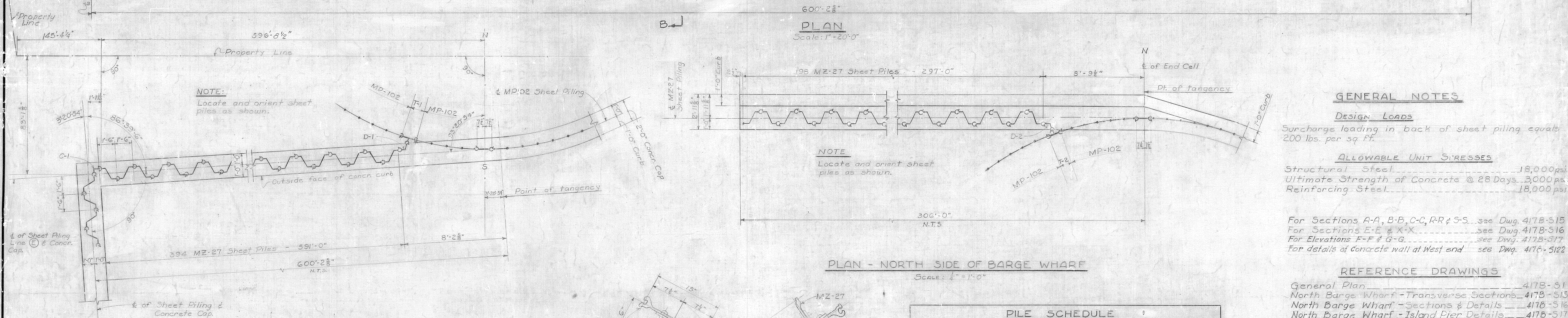
DRAWING NO.

417B-56

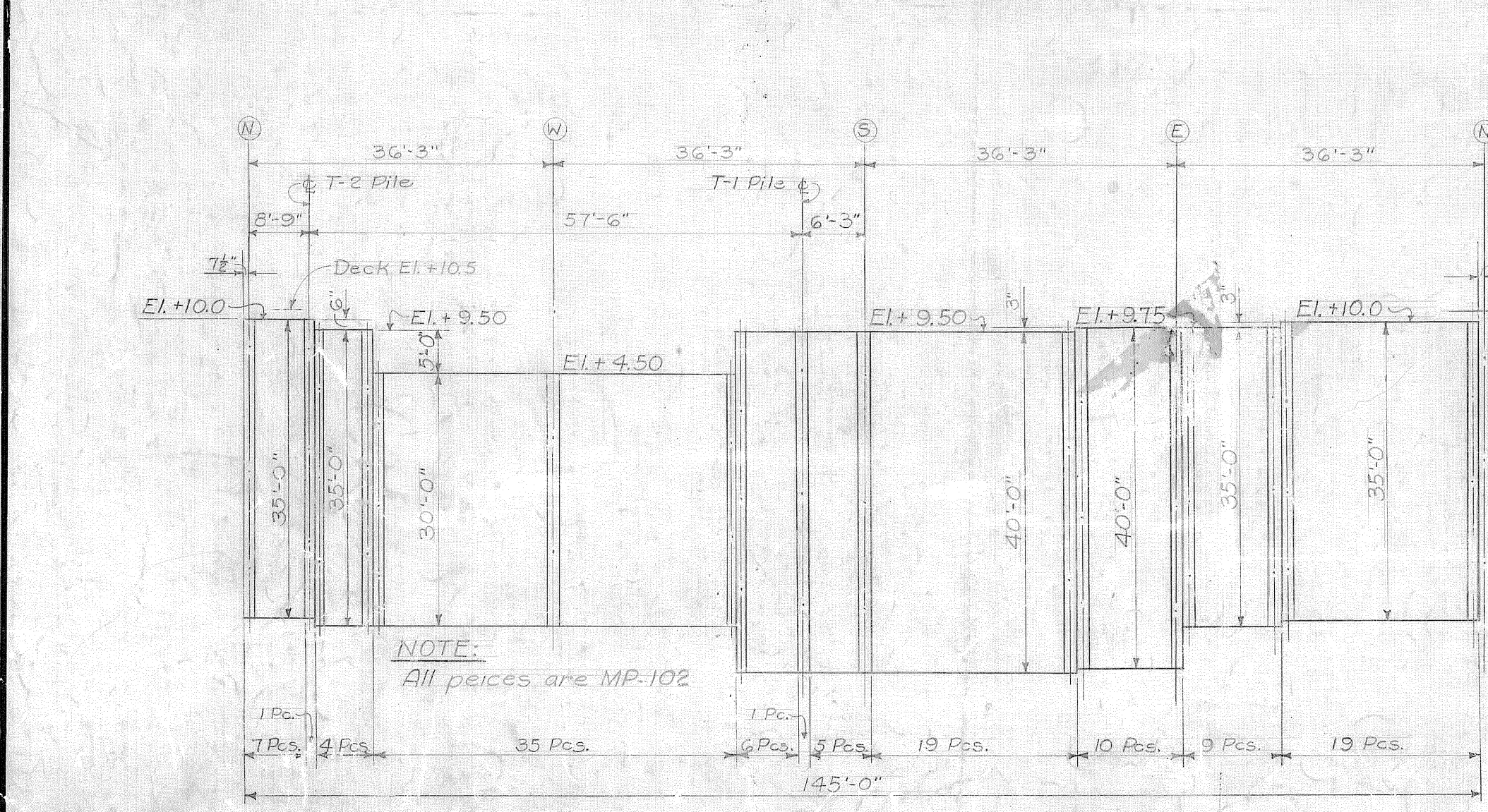
DETAILS OF SPLICES FOR "H" PILES

Scale : $1'' \approx 10''$

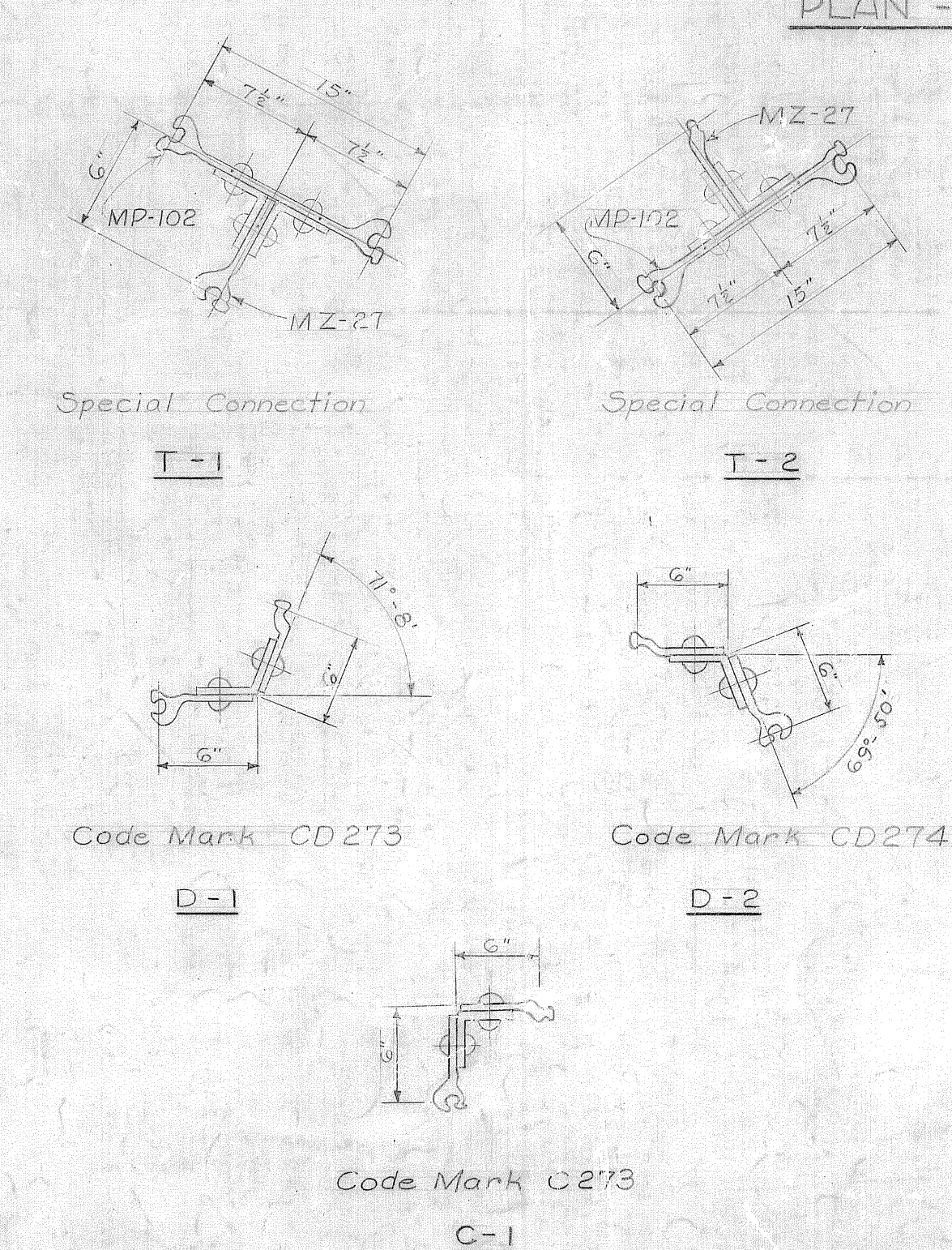
DRAWING NO.
417 B-S7



PLAN - SOUTH SIDE OF BARGE WHARF
Scale: $\frac{1}{4}" = 1'-0"$



DEVELOPMENT OF END CELL
Scale: $\frac{1}{16}'' = 1'-0''$



DETAILS OF SPECIAL SHEET PILE CONNECTIONS
N.T.S.

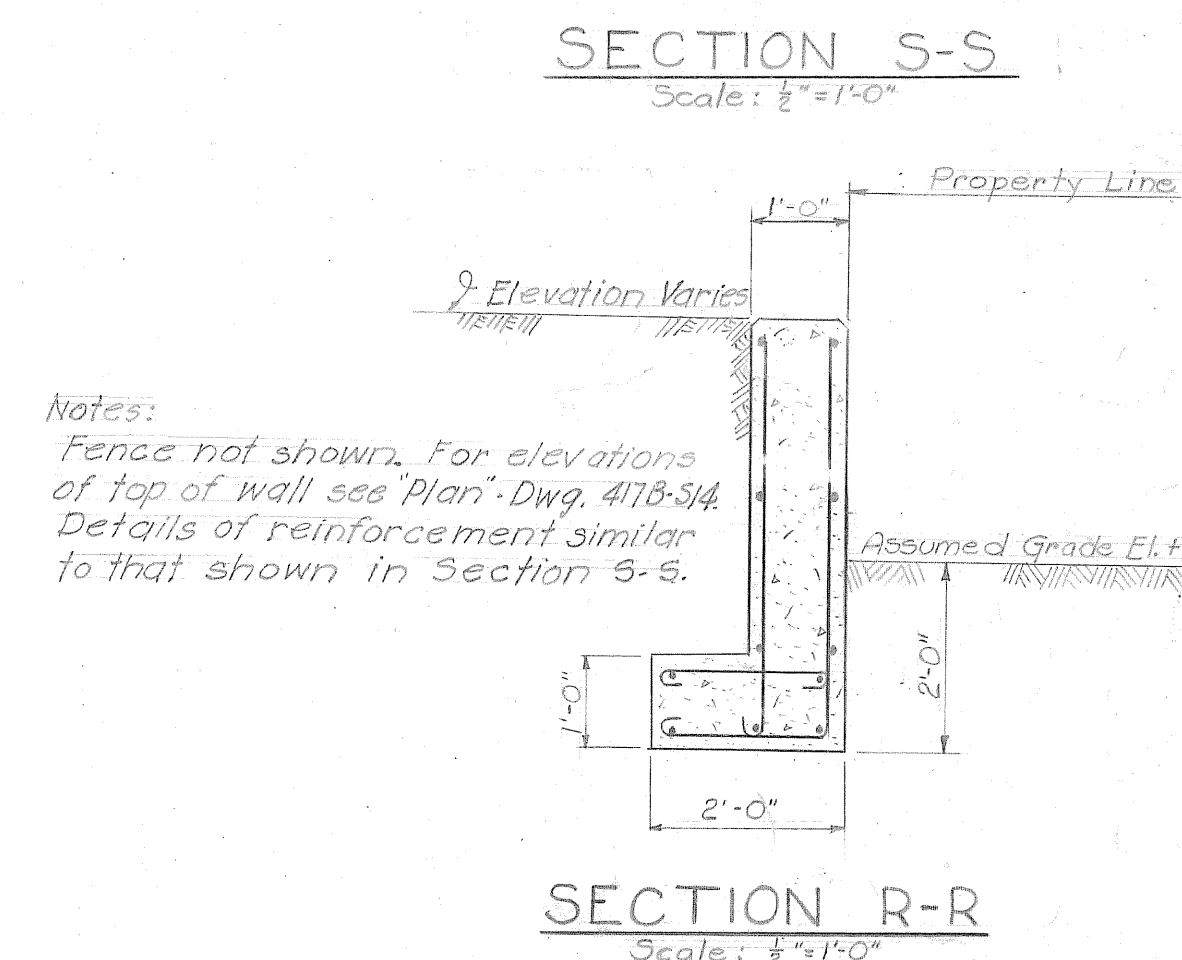
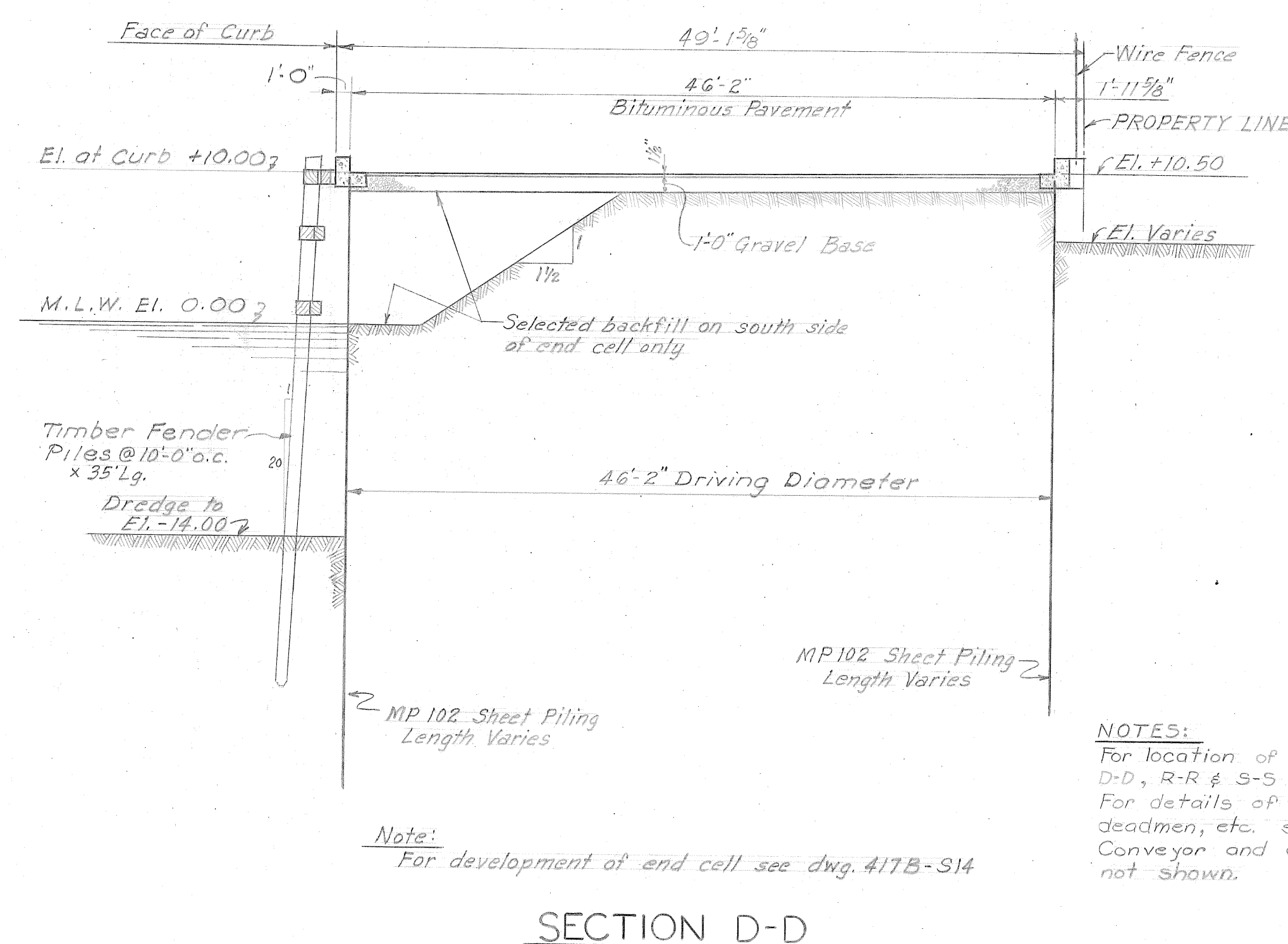
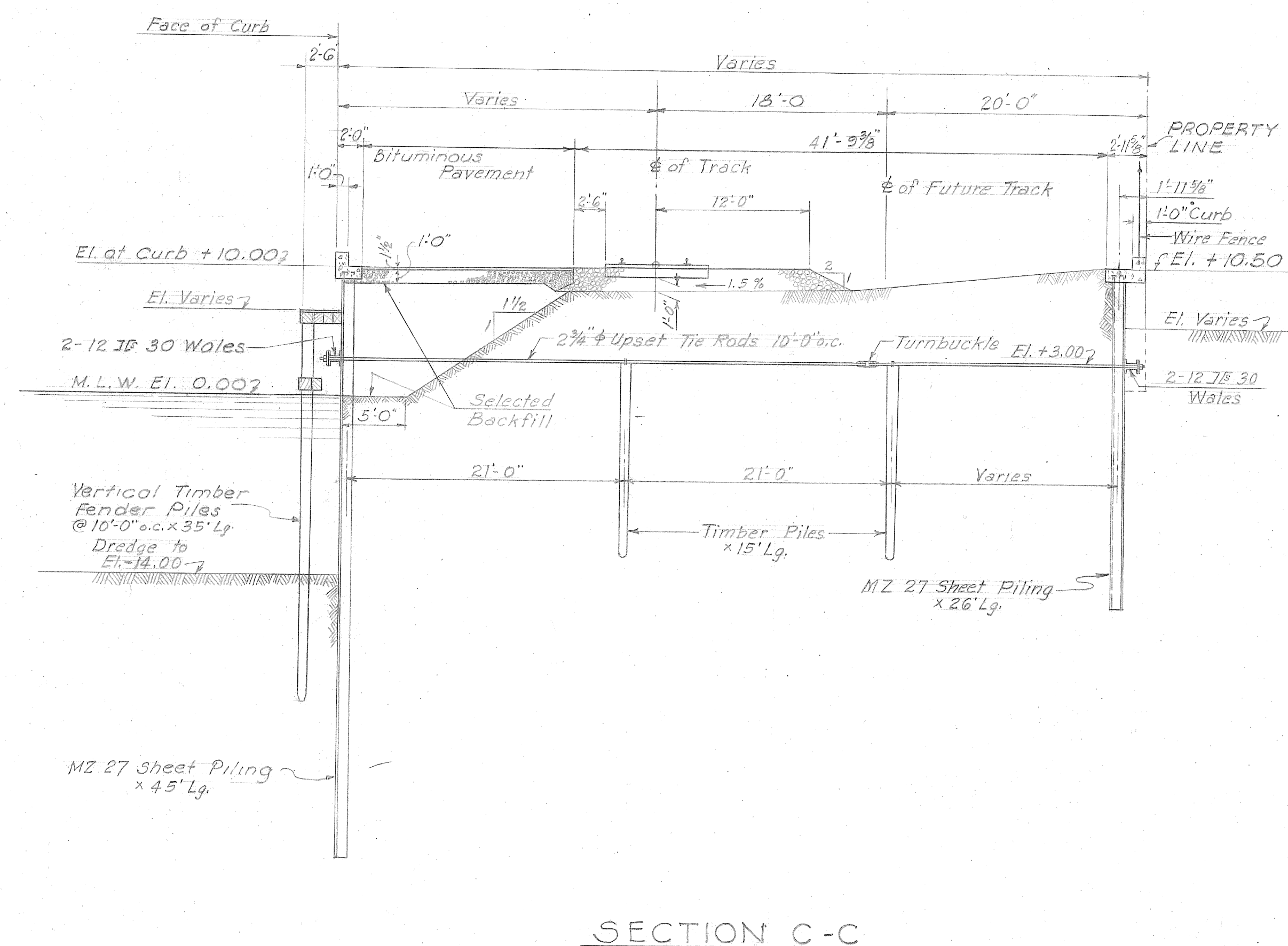
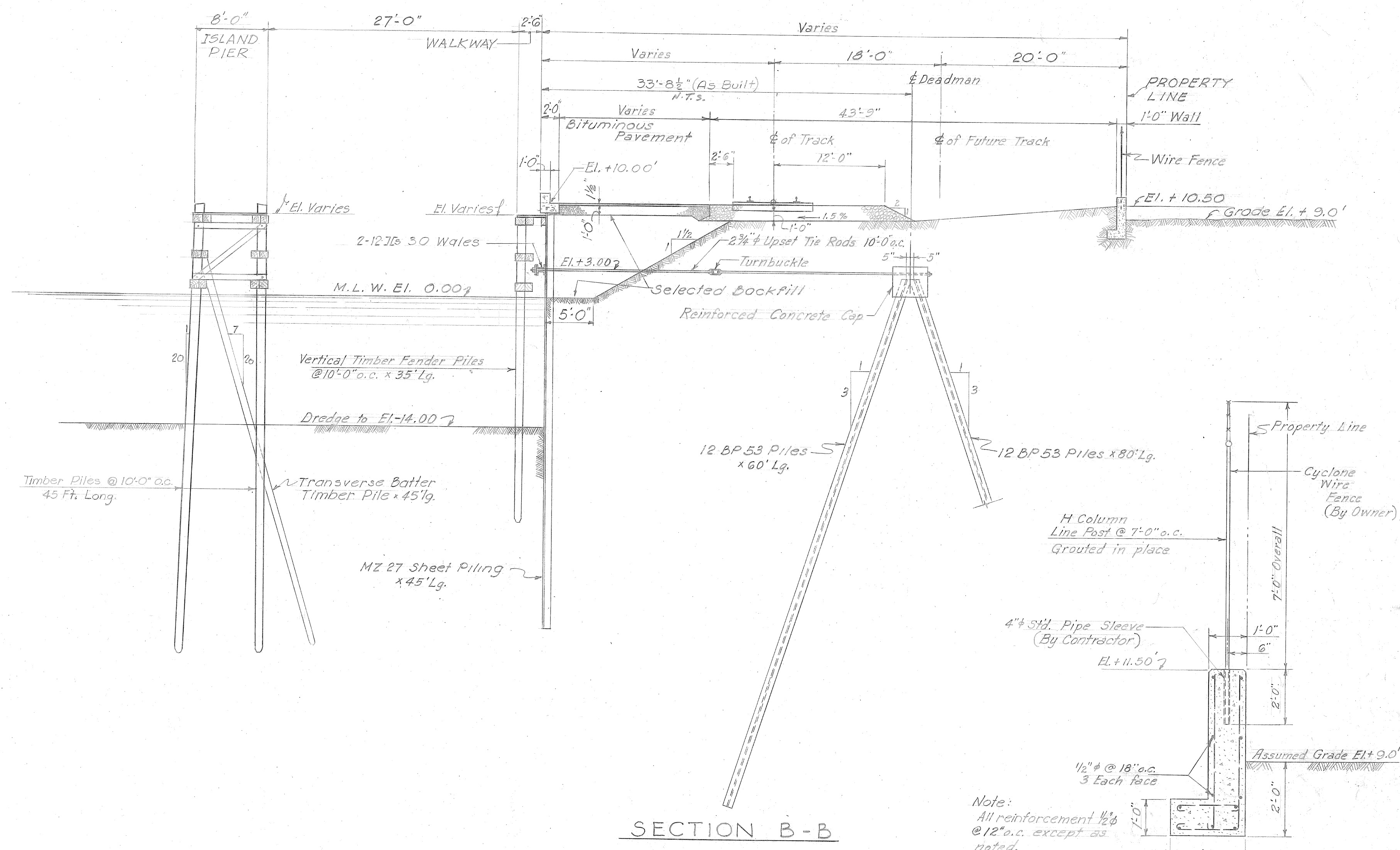
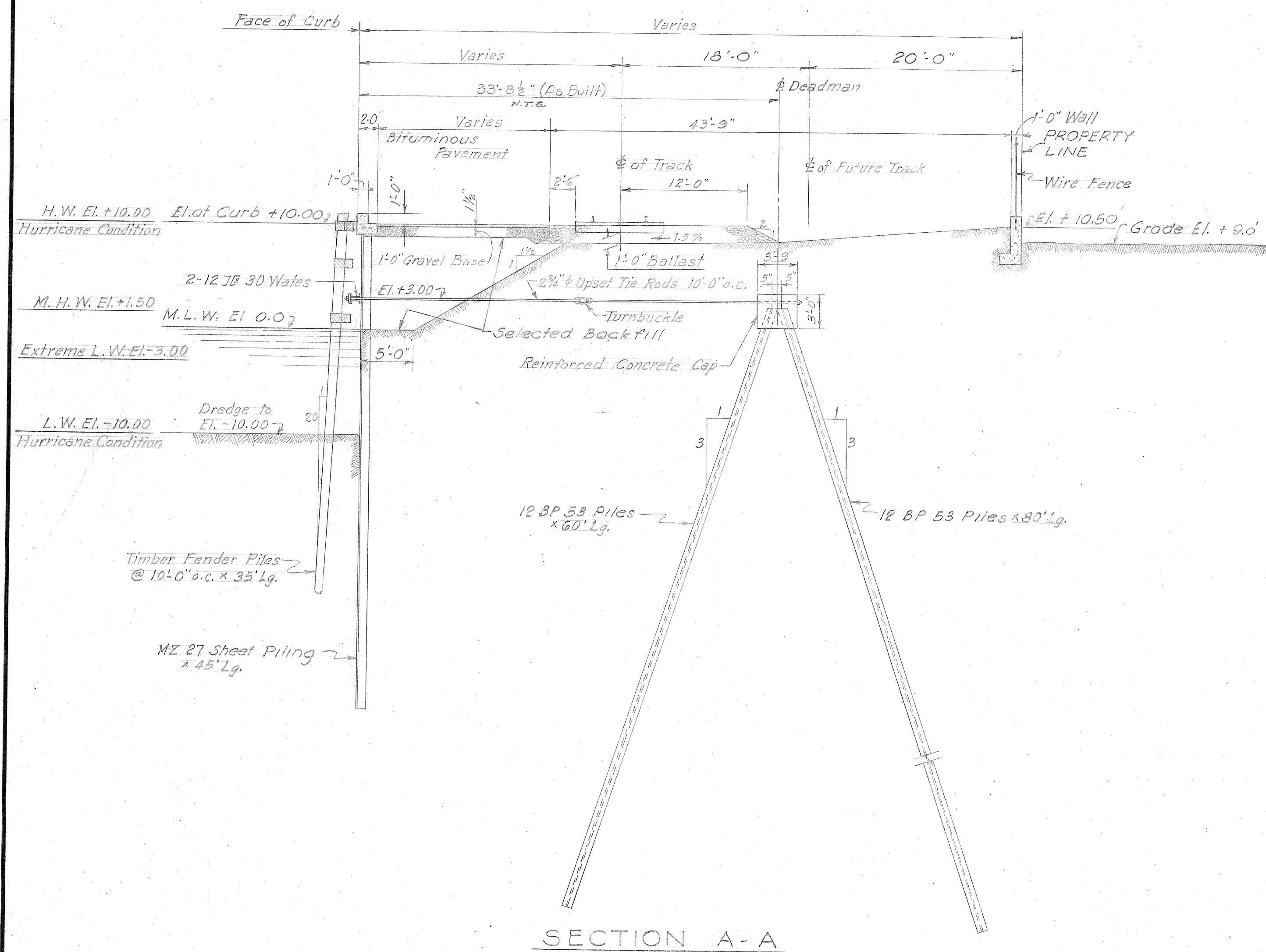
PILE SCHEDULE						
TYPE	LOCATION	Nº	SIZE	OUT OR ELEVATION	LENGTH	REMARKS
SHEET PILES	End Cell	35	MP-102	+ 4.50	30.0'	_____
	" "	4	"	+ 9.50	35.0'	_____
	" "	30	"	+ 9.50	40.0'	_____
	" "	9	"	+ 9.75	35.0'	_____
	" "	10	"	+ 9.75	40.0'	_____
	" "	26	"	+10.00	35.0'	_____
	" "	1	MP-102(T.Pile)	+ 9.50	40.0'	See Detail T-1
	" "	1	MP-102(T. Pile)	+10.00	35.0'	See Detail T-2
	" "	3	MP-102	_____	40.0'	Spares
	Line "A"	202	MZ-27	+10.00	26.0'	Includes 4 Spares
	Line "A"	1	MZ-27(Angle)	+10.00	30.0'	See Detail D-2
	Line "E"	402	MZ-27	+ 9.50	45.0'	Includes 3 Spares
BRACING PILES	Line "E"	1	MZ-27(Angle)	+ 9.50	45.0'	See Detail D-1
	Line "E" (Corner)	1	MZ-27(Angle)	+ 9.50	45.0'	See Detail C-1
	Line "C"	47	12BP53	+ 2.50	60.0'	Includes 2 Spares
	Line "D"	30	"	+ 2.50	60.0'	" " " "
	Line "C"	3	"	+ 4.25	40.0'	For Mooring Bitts
	Line "D"	3	"	+ 4.25	20.0'	" " " "
	Conveyor Support Piles	14	14BP73	See Dwg. 417B-571	60.0'	6 Vertical Piles & Batter Piles 1 to 5
	Line "F"	23	_____	_____	35.0'	Batter Piles 1 to 20
	Line "F"	42	_____	_____	38.0'	Vertical Piles at Walkway.
	Line "G"	42	_____	_____	40.0'	Vertical Piles
	Line "G"	11	_____	_____	45.0'	Longitudinal Batter Piles
	Line "H"	42	_____	_____	45.0'	Batter Piles 1 to 20
TIMBER PILES	Line "H"	9	_____	_____	45.0'	Transverse Batter Piles 1 to 20
	End Cluster	12	_____	_____	45.0'	Batter Piles 1 to 20
	Lines B-1, B-2, B-3	62	_____	+3.00	15.0'	Pile Support For Tie Rods.
	Spares	10	_____	_____	45.0'	_____

General Plan	417B-51
North Barge Wharf - Transverse Sections	417B-51
North Barge Wharf - Sections & Details	417B-51B
North Barge Wharf - Island Pier Details	417B-51
West Barge Wharf - Plans & Elevation	417B-51B

6	11/7/52	H.E.	Revised concrete wall at West end & showed spacing of Exp. Joints
5	9/30/52	W.R.	Revised location of Conveyor Support Bents & Bent Nos.
5	9/30/52	W.P.	Changed dimension between Pile Lines (E) & (G) to 28'-8"
4	7/15/52	J.J.K.	Location of deadmen changed to conform to "As built" conditions. Revised length & mark nos. other rods for deadmen
3	4/17/52	J.J.K.	Added 30'-0" Concrete Retaining Wall & Sects. RR & SS in PLAN
3	3/28/52	J.J.K.	Relocated & revised Island Pier 2 and Pile Cluster
2	2/28/52	J.J.K.	Added Conveyor Support & Transfer Batter Piles
2	2/28/52	J.J.K.	Revised Pile Schedule, for IS&D Pier only, made minor dimensional revisions.
1	3/10/52	J.E.B.	Added picture of corner; changed dim. from 43'-0" to 43'-6"
NO.	DATE	BY	REMARKS

NORTH BARGE WHARF
PLANS & ELEVATION

DRAWN BY: J.J.K.	SCALE: AS NOTED	DRAWING NO.
TRACED BY: J.J.K.	DATE: FEBRUARY 19, 1962	417B-S14
CHECKED BY: H.E.	APPROVED BY: <i>Gene H. Stratton</i>	



4	7/15/52	J.L.K.	Sec.A-A & Sec.B-B; Location of concrete deadmen changed
⑤	4/17/52	J.L.K.	Added Sect. R-R; changed title of Typical Wall Section to Sect. S-S.
2	3/28/52	J.L.K.	Revised Island Pier - Section B-B
①	3-11-52	E.G.	Ch'd. Pipe sleeves for Fence Post & Fence Height
NO.	DATE	BY	REMARKS

REVISIONS

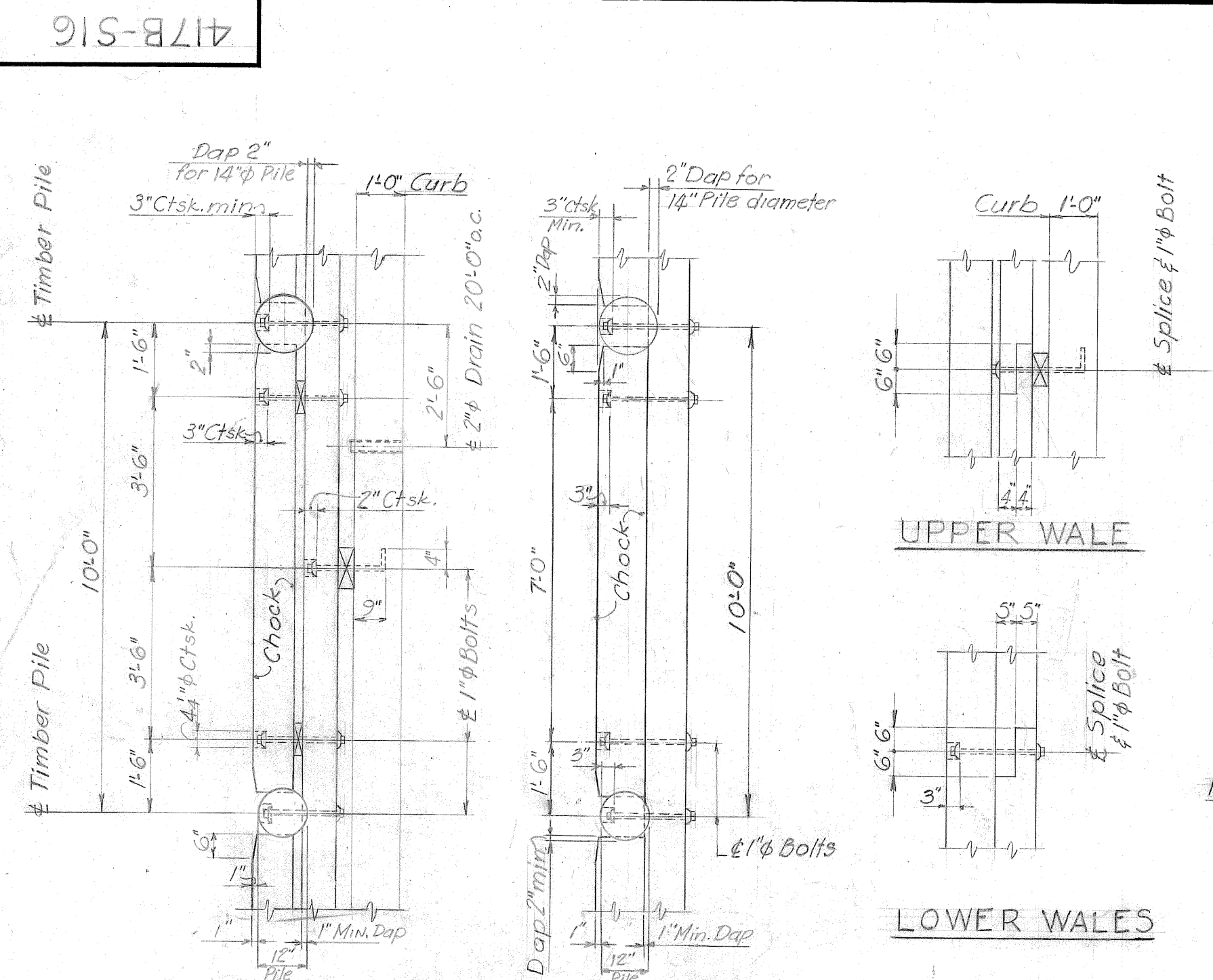
TENNESSEE COAL AND IRON DIVISION
UNITED STATES STEEL COMPANY
FAIRFIELD, ALABAMA

ORE TERMINAL
MOBILE ALABAMA
NORTH BARGE WHARF
TRANSVERSE SECTIONS

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

DRAWN BY: H.R.P. & W.P.	SCALE: $1/8" = 1'-0"$ & As noted	DRAWING NO. 417B-S15
TRACED BY: H.R.P. & W.P.	DATE: February 18, 1952	
CHECKED BY: H.E.	APPROVED BY: <i>James H. Stratton</i>	

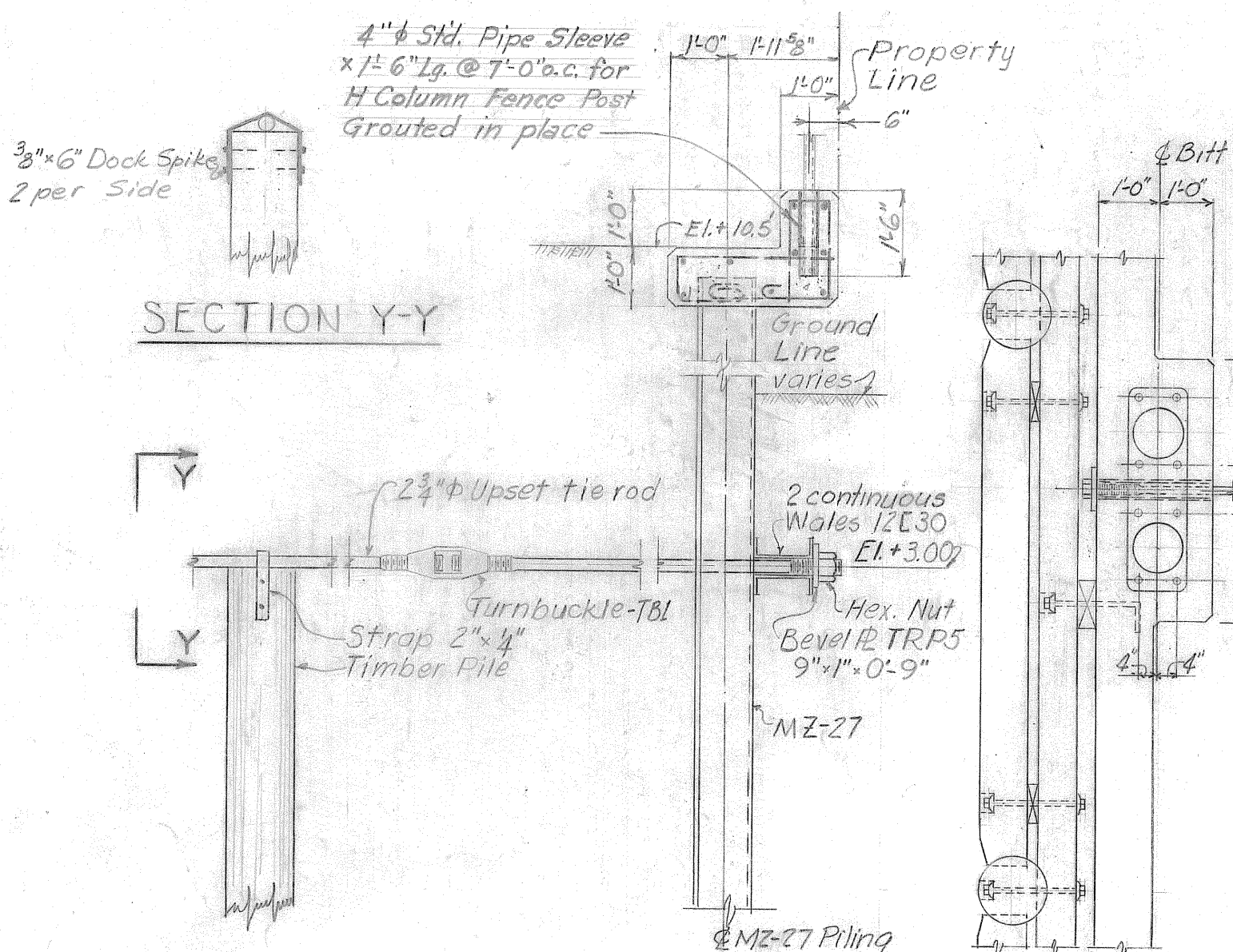
5	9/30/52	W.P.	Revised Bituminous Pavement Sect. A-A, B-B & C-C	
NO.	DATE	BY	REMARKS	
REVISIONS				



Note: Details of daps, countersinks & bolts shown are typical for all fendering, unless otherwise noted. Face of pile is not to extend beyond face of chock.

SECTION AA SECTION B-B FENDER SPLICE

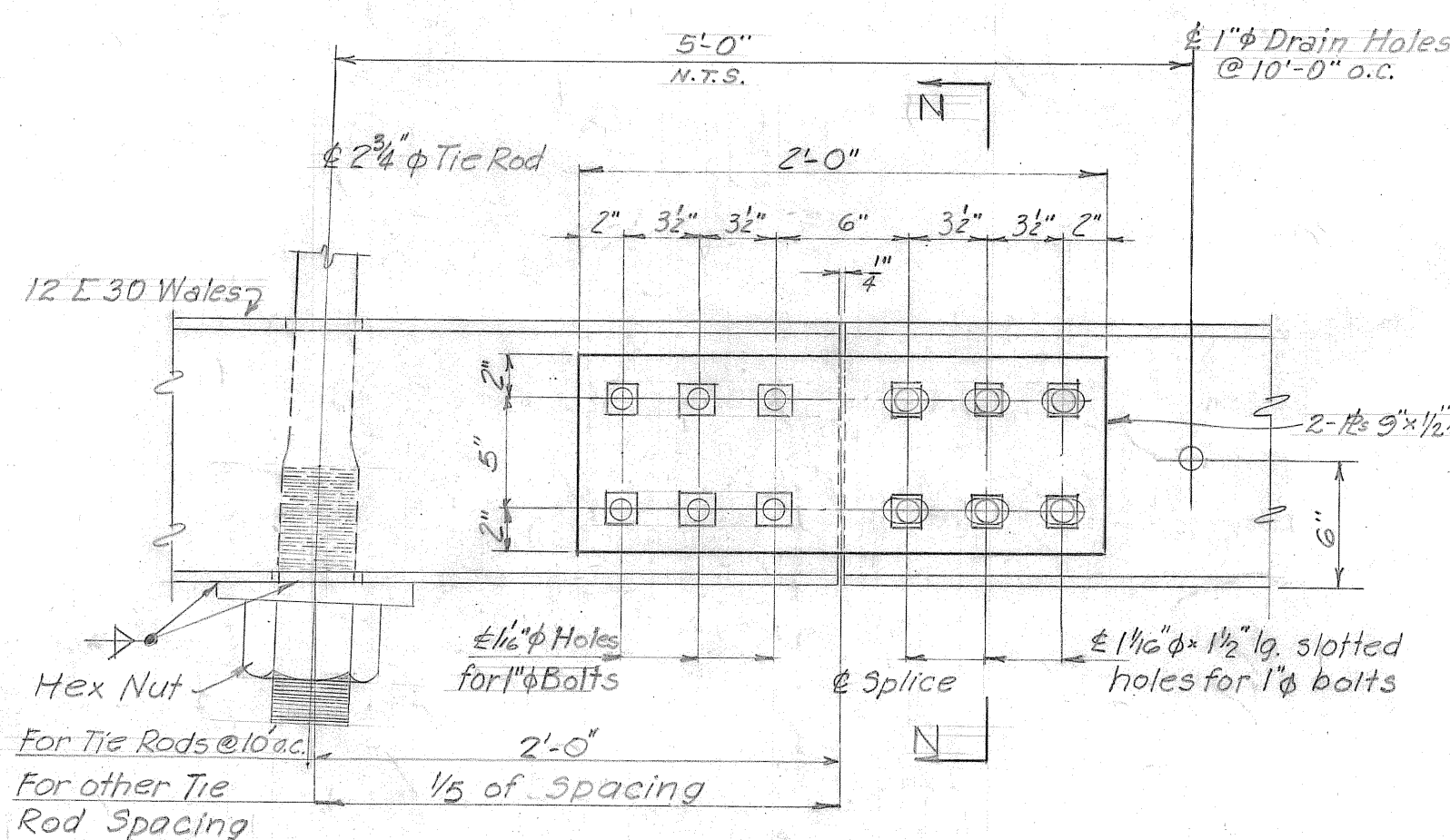
TIMBER FENDERING DETAILS



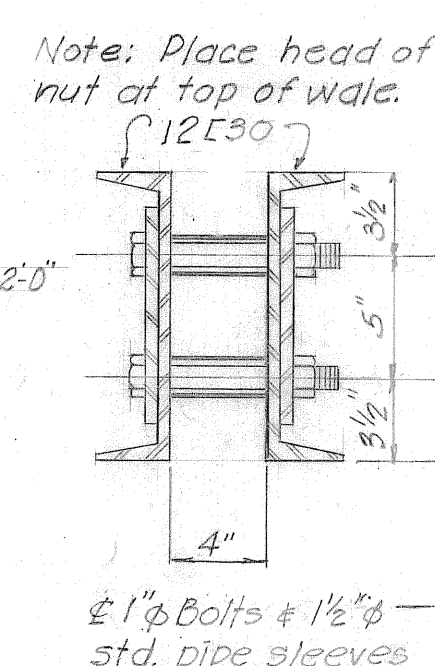
Note: Reinforcement details of concrete curb similar to that shown in TYPICAL BULKHEAD SECTION

SECTION X-X

SECTION H-H

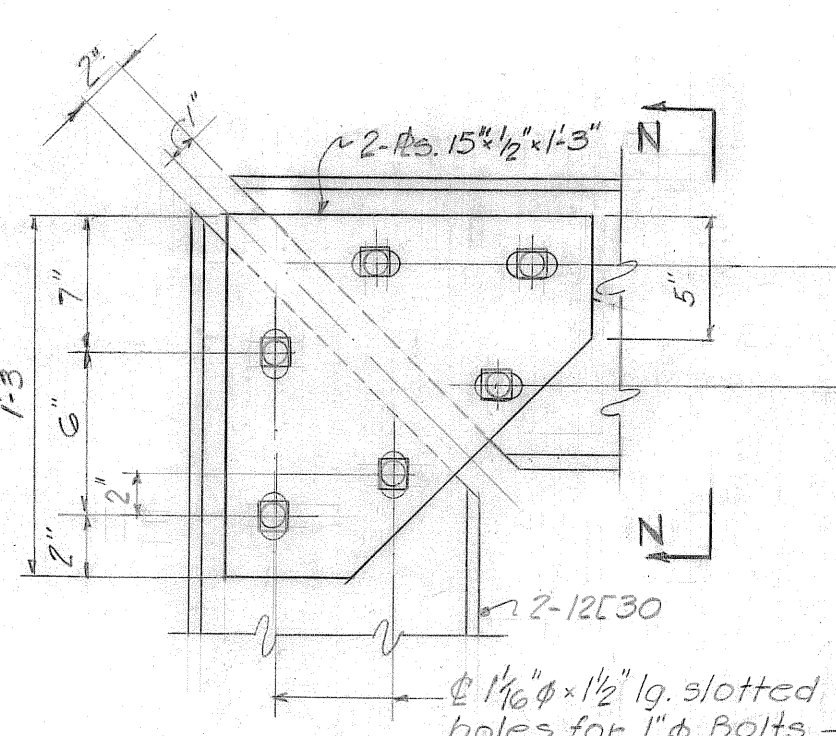


PLAN-TYPICAL SPLICE



SECTION N-N

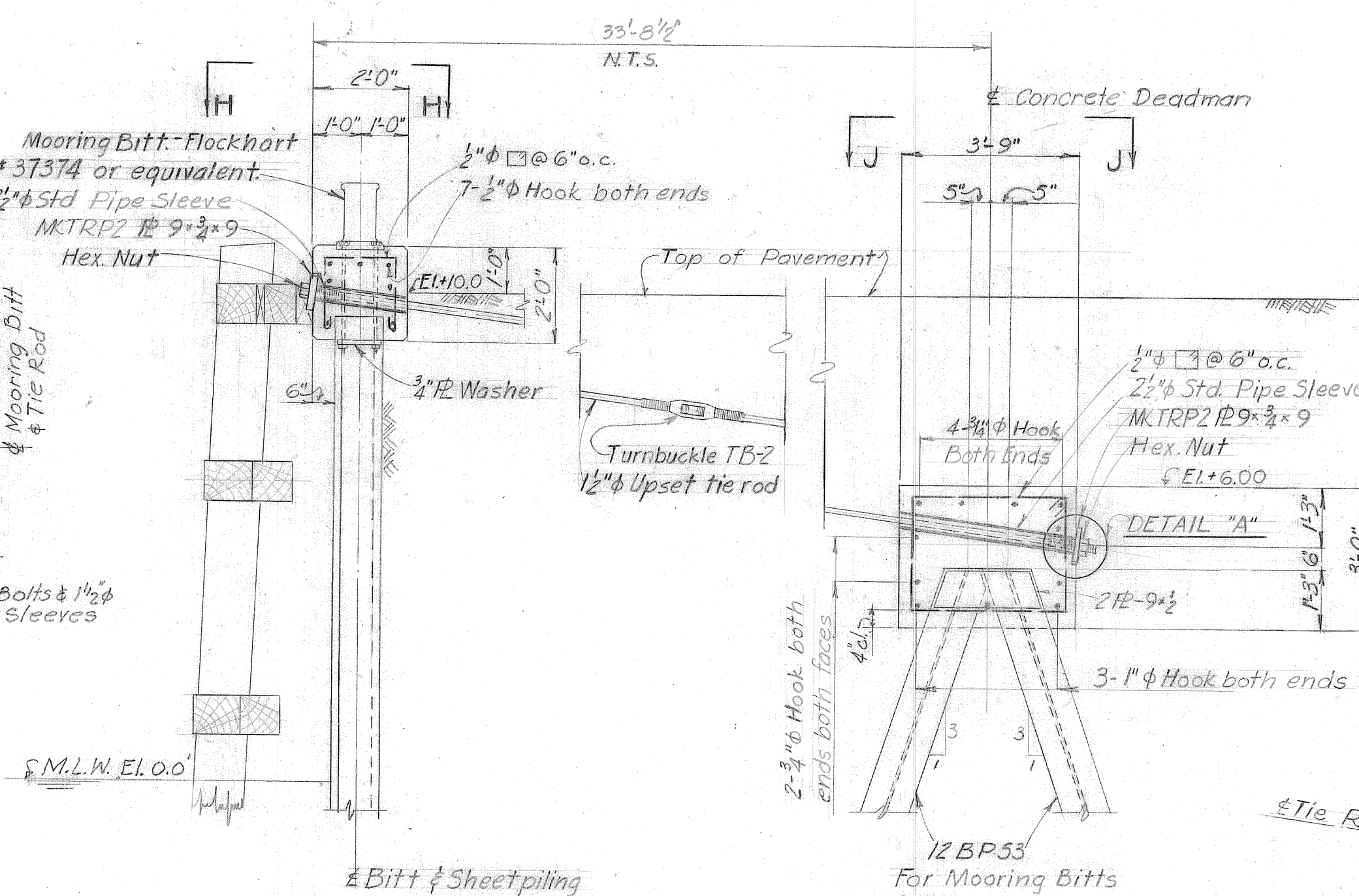
DETAILS OF 12 E 30 WALES
Scale 1/2" = 1'-0"



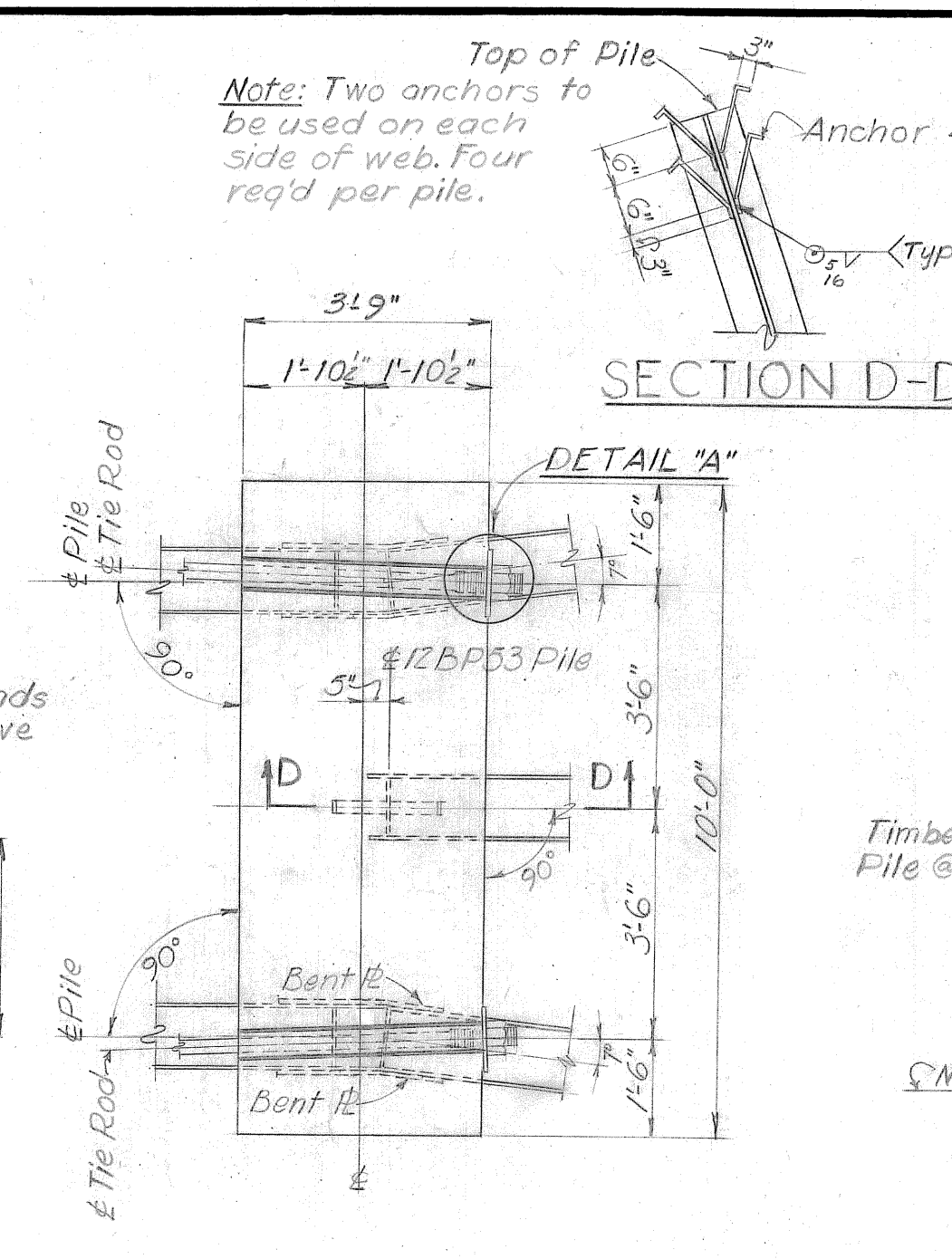
PLANS OF CORNER SPLICES

Notes: Use R TRP3 at wale instead of TRP4 on North Barge Wharf where tie rods are at right angles to sheet piling. Details shown are typical for all sheet pile bulkheads at North & West Barge Wharves & for 57' long wall at Main Wharf

TYPICAL BULKHEAD SECTION

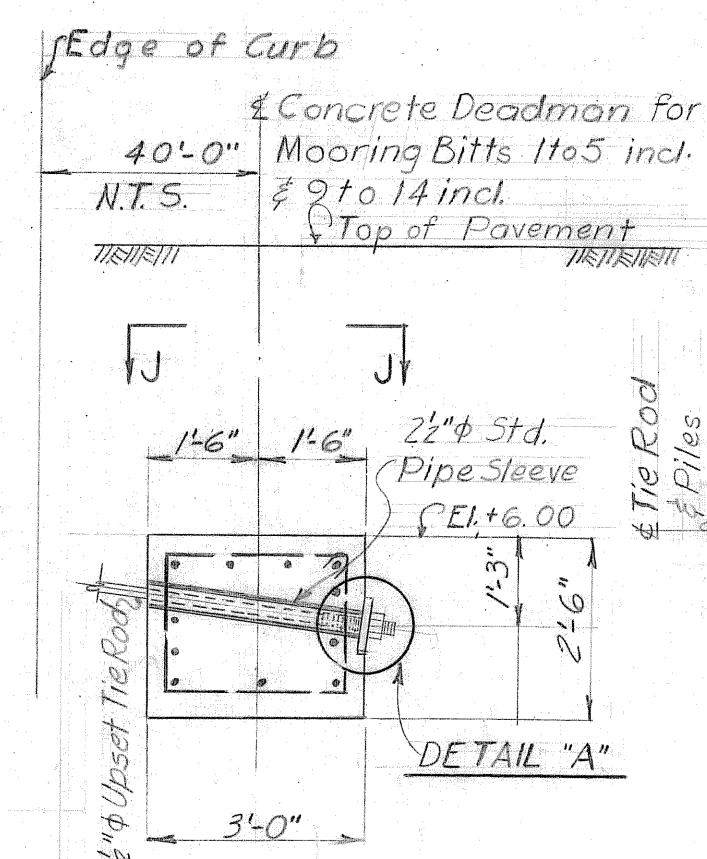


SECTION AT MOORING BITT

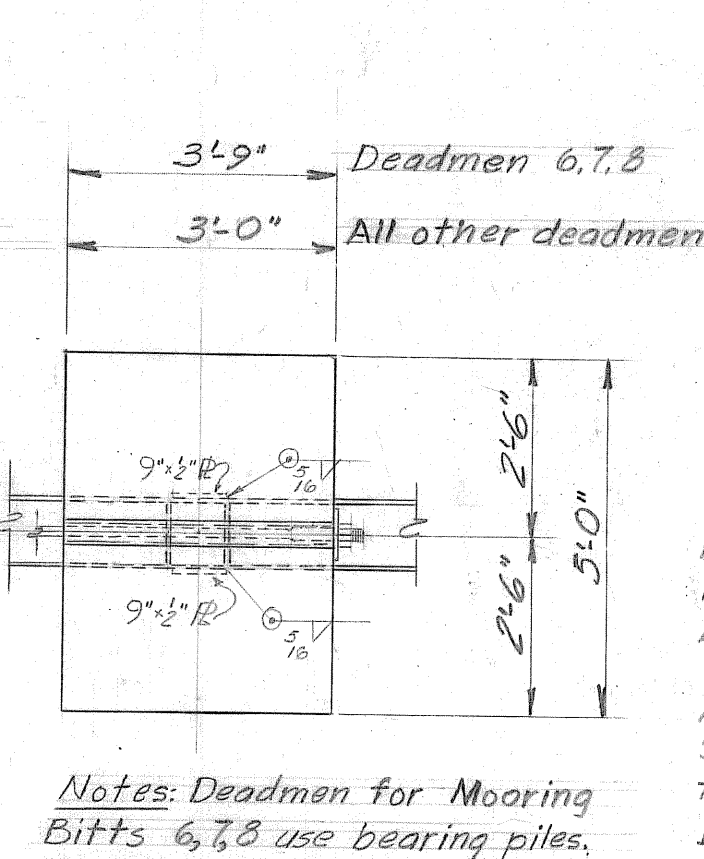


Note: Reinforcement not shown.

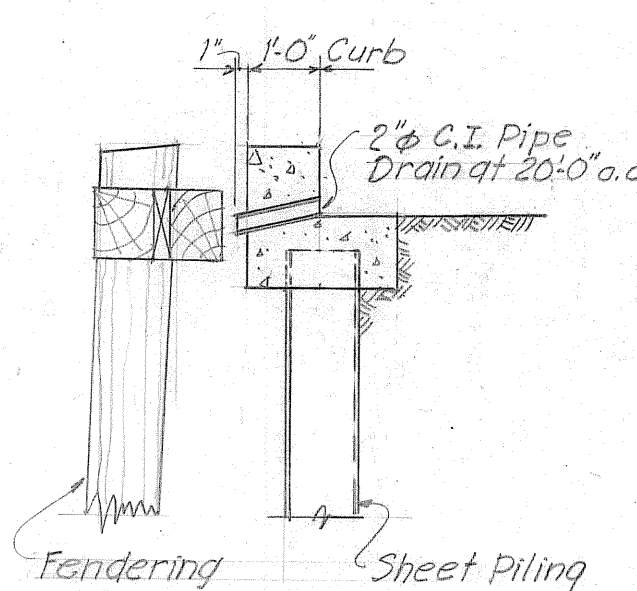
SECTION C-C



DETAIL A



SECTION J-J



DRAIN DETAIL

Note: For reinforcement at concrete curb see 'Typical Bulkhead Section' this drawing.

SECTION E-E

SECTION F-F

SECTION G-G

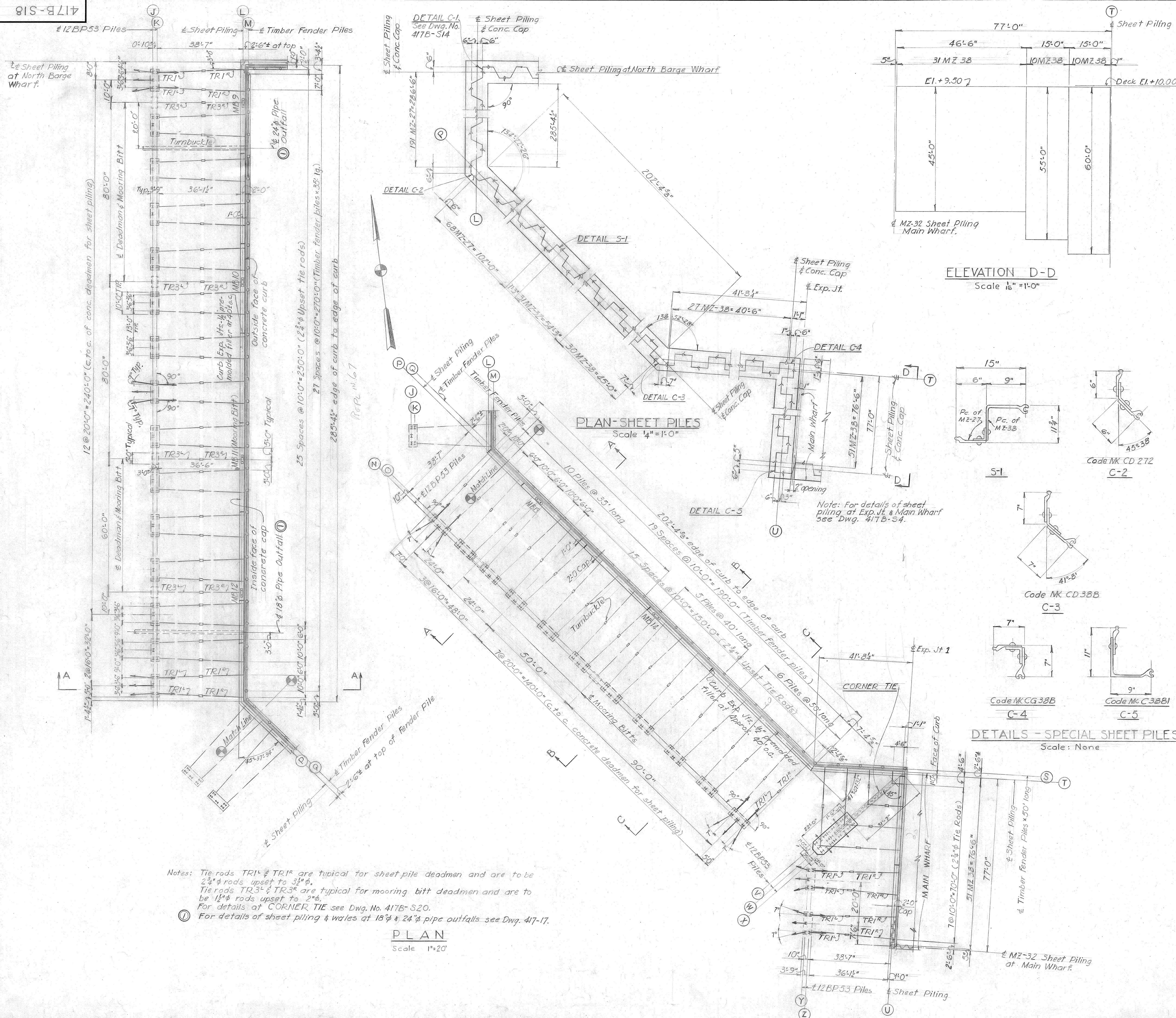
SECTION K-K

NOTES
For locations of Sections E-E & X-X see Dwg. 417B-S14. Work this dwg. with Dwg. 417B-S5, 417B-S14 & 417B-S18. All exposed edges of concrete are to be chamfered one inch unless otherwise noted. All reinforcing steel to have minimum of 2 inches cover. Surfaces of structural steel in contact with concrete are to be coated with mastic. Exposed edges of all timber fender chocks are to be chamfered 1/2 inch. All bolts, nuts & washers are to be galvanized. Unless noted, all bolts to be 1" φ. 4" φ C.I. Ogee Washers are to be used against all timber. All timber & timber fender piles are to be creosoted Southern Pine or creosoted Douglas Fir. Tie Rods, Turnbuckles, R Washers & Nuts for Tie Rods are to be furnished by owner.

REFERENCE DRAWINGS

Main Wharf-Deck Plan III Bents 36 to 51 417B-S5
North Barge Wharf-Plans & Elevation 417B-S14
North Barge Wharf-Transverse Sections 417B-S15
West Barge Wharf-Plans & Elevation 417B-S18
West Barge Wharf-Transverse Sections 417B-S19

NO.	DATE	BY	REMARKS
2	4/9/53	H.E.	Revised drawing of piles at wales & notes in Sects A-A, B-B, E-E, F-F & G-G. Located chocks in typical bulkhead section. Minor revisions.
1	7/15/52	J.H.	Location of concrete deadmen changed.
REVISIONS			
TENNESSEE COAL AND IRON DIVISION UNITED STATES STEEL COMPANY FAIRFIELD, ALABAMA			
ORE TERMINAL MOBILE ALABAMA			
NORTH BARGE WHARF SECTIONS & DETAILS			
KNAPPEN TIPPETTS ABBETT ENGINEERING COMPANY 62 WEST 47TH STREET NEW YORK, N. Y.			
DRAWN BY: S.J.D.	SCALE: 3/8" = 1'-0" & AS SHOWN	DRAWING NO. 417B-S16	
TRACED BY: S.J.D.	DATE: February 18, 1952		
CHECKED BY: H.E.	APPROVED BY: J. H. Trotter		



PILE SCHEDULE

Location	No	Section	Cut-off Elevation	Length	Remarks
Anchor Piles					
Line J	45	12BP53	+2.50	80'	Batter 1 on 3
K	30			60'	do
N	33			80'	do
O	22		+2.50	60'	Batter 1 on 3
V	6		+2.44	80'	Longit. batter 1 on 3
V	2			60'	Trans. batter 1 on 3
W	6			60'	Longit. batter 1 on 3
X	6			80'	Trans. batter 1 on 3
X	2		+2.44	60'	Batter 1 on 3
Y	6		+2.50	80'	do
Z	4		+2.50	60'	Batter 1 on 3
Spares	2			60'	
Spares	2	12BP53		80'	
Sheet Piles					
Line L	191	MZ-27	+9.50	45	
G-2	1	CD 272		45	$\phi=45^{\circ}38'$ A=B=6"
P	68	MZ-27		45	
P	1	S-1		45	See detail below
P	31	MZ-32		53	
P	30	MZ-38		60	
C-3	1	CD 38B		55	$\phi=41^{\circ}8'$ A=B=7"
T	27	MZ-38		60	
G-4	1	CG 38B		55	A=B=7"
U	10	MZ-38		60	
U	10	MZ-38		55	
U	31	MZ-38		45	
C-5	1	C38B1	+9.50	45	A=11"
Spares	5	MZ-27		45	
Spares	1	MZ-32		53	
Spares	2	MZ-38		60	
Timber Piles					
Line M	30		+11.00	35'	Batter 1 on 20
Q	10			35'	do
Q	5			40'	do
Q	6			50'	do
S	4		+11.00	50'	Batter 1 on 20
Spares	4			35'	
Spares	1			50'	

GENERAL NOTES

Design Loading

Surcharge loading in back of sheet pile bulkhead equals 200 p.s.f.

Allowable Unit Stresses

Structural steel 18,000 p.s.i.
 Ultimate strength of concrete at 28 days 3,000 p.s.i.
 Reinforcing steel 18,000 p.s.i.

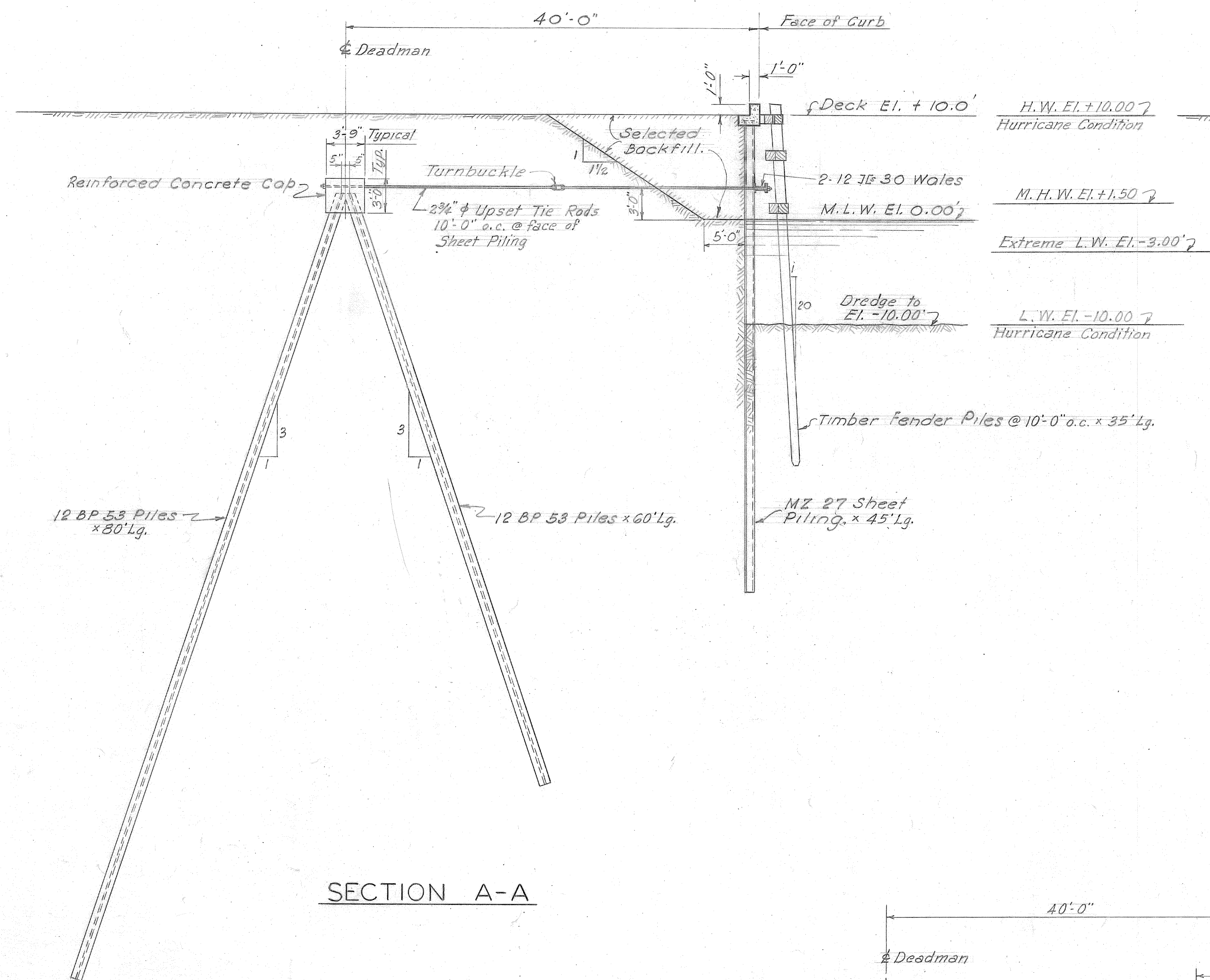
For Sections A-A, B-B, C-C, see Dwg. No. 417B-S19

For details of Fendering, Tie Rods, Deadmen, etc., see Dwg. No. 417B-S16

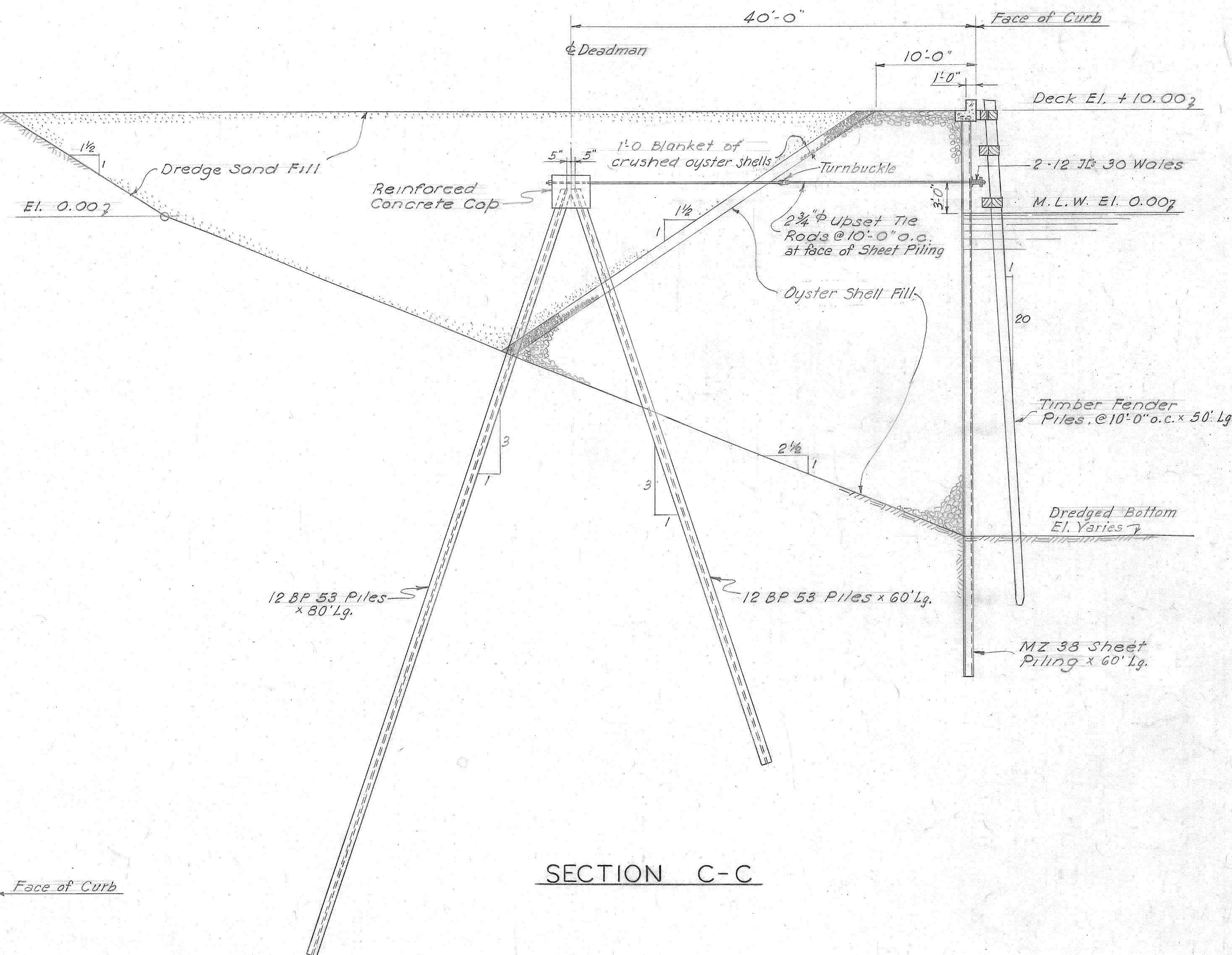
REFERENCE DRAWINGS

General Plan 417B-S1
 Main Wharf - Pile Plan & Details 417B-S2
 North Barge Wharf - Plans & Elevation 417B-S14
 North Barge Wharf - Sections & Details 417B-S16
 West Barge Wharf - Transverse Sections 417B-S19
 West Barge Wharf - Details of Corner Tie 417B-S20
 Grading & Drainage Plan 417-17

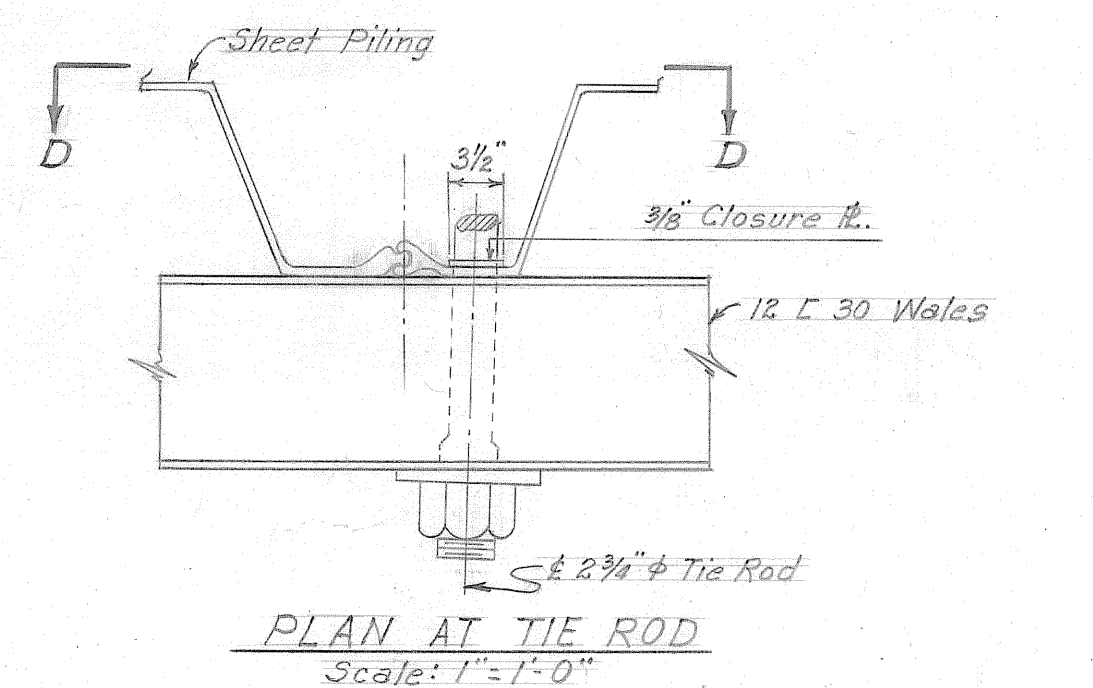
NO.	DATE	BY	REMARKS
2	11-7-52	H.E.	Showed spacing of curb expansion joints
①	4-17-52	H.E.	Located 18" & 24" pipe outfalls & added note to "PLAN".
REVISIONS			
TENNESSEE COAL AND IRON DIVISION UNITED STATES STEEL COMPANY FAIRFIELD, ALABAMA			
ORE TERMINAL MOBILE ALABAMA WEST BARGE WHARF PLANS & ELEVATION			
KNAPPEN TIPPETTS ABBETT ENGINEERING COMPANY 62 WEST 47TH STREET NEW YORK, N. Y.			
DRAWN BY: S.J.D.	SCALE: AS NOTED	DRAWING NO. 417B-S18	
TRACED BY: S.J.D.	DATE: February 18, 1952		
CHECKED BY: H.E.	APPROVED BY: <i>James H. Knapp</i>		



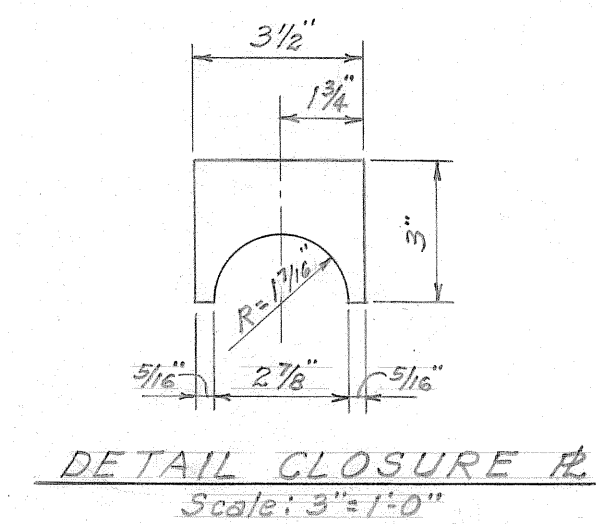
SECTION A-A



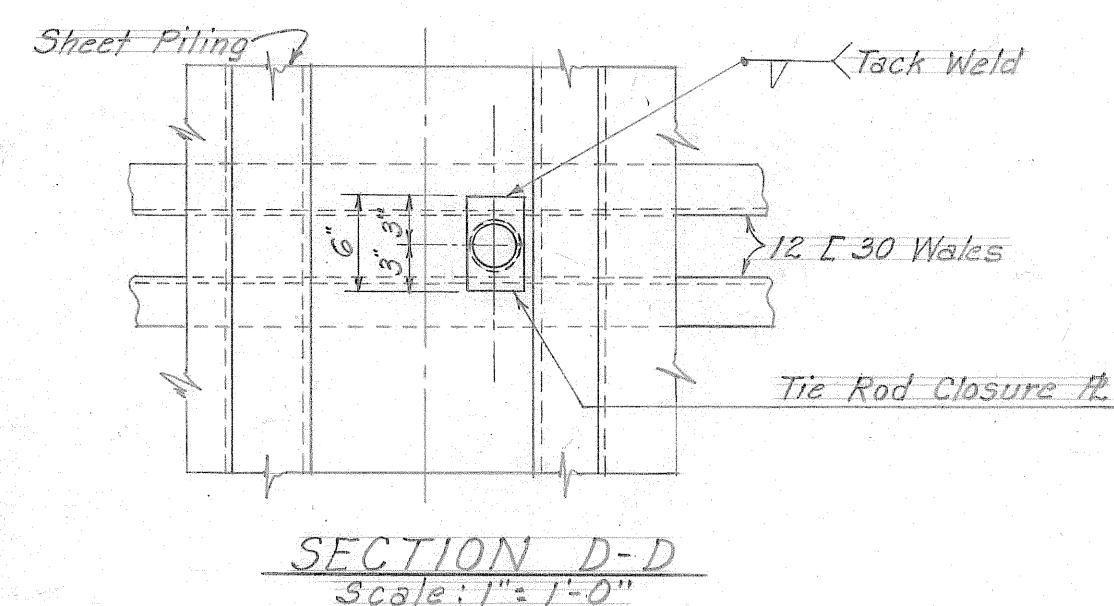
SECTION C-C



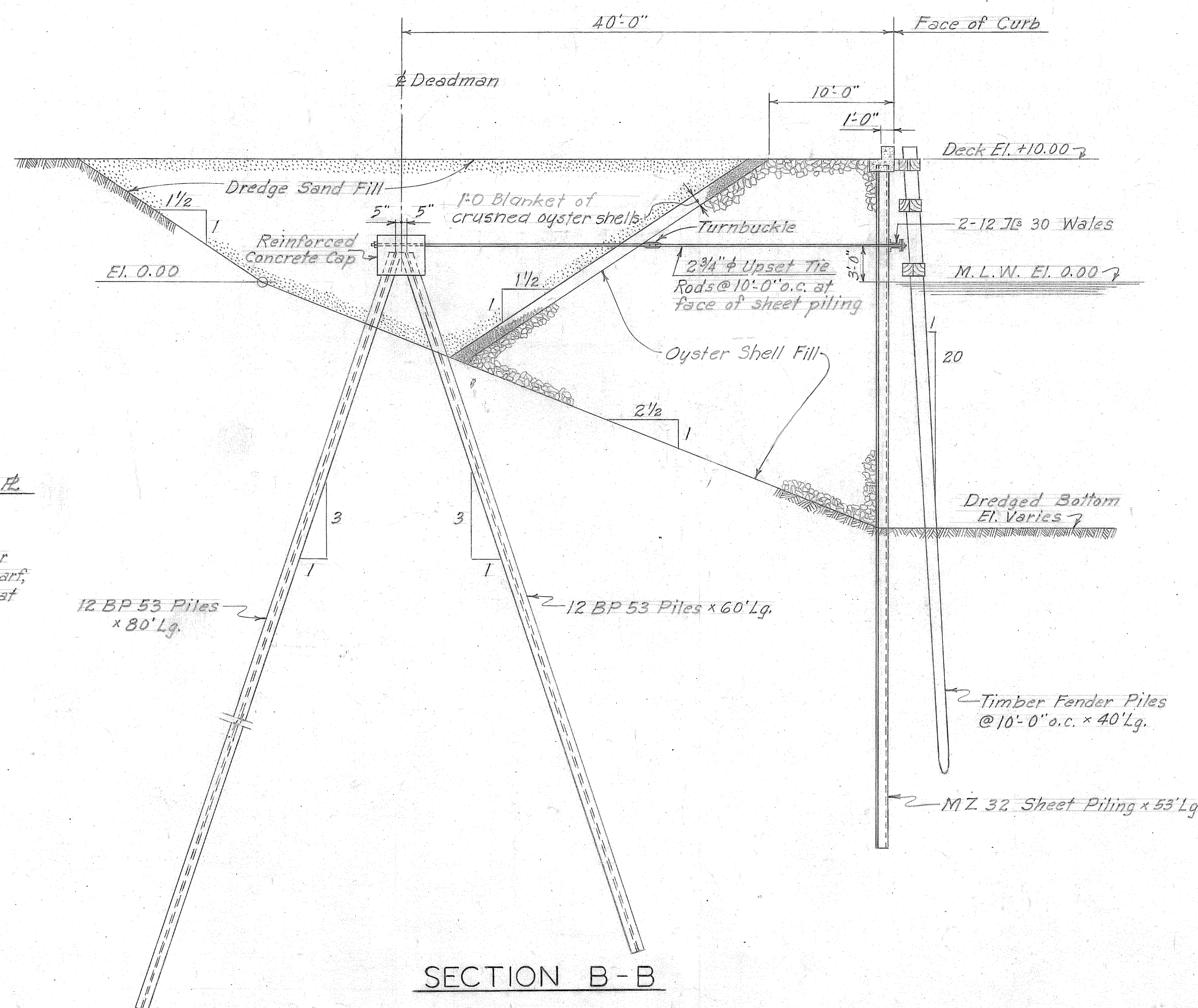
PLAN AT TIE ROD
Scale: 1" = 1'-0"



DETAIL CLOSURE FL
Scale: 3" = 1'-0"



SECTION D-D
Scale: 1" = 1'-0"

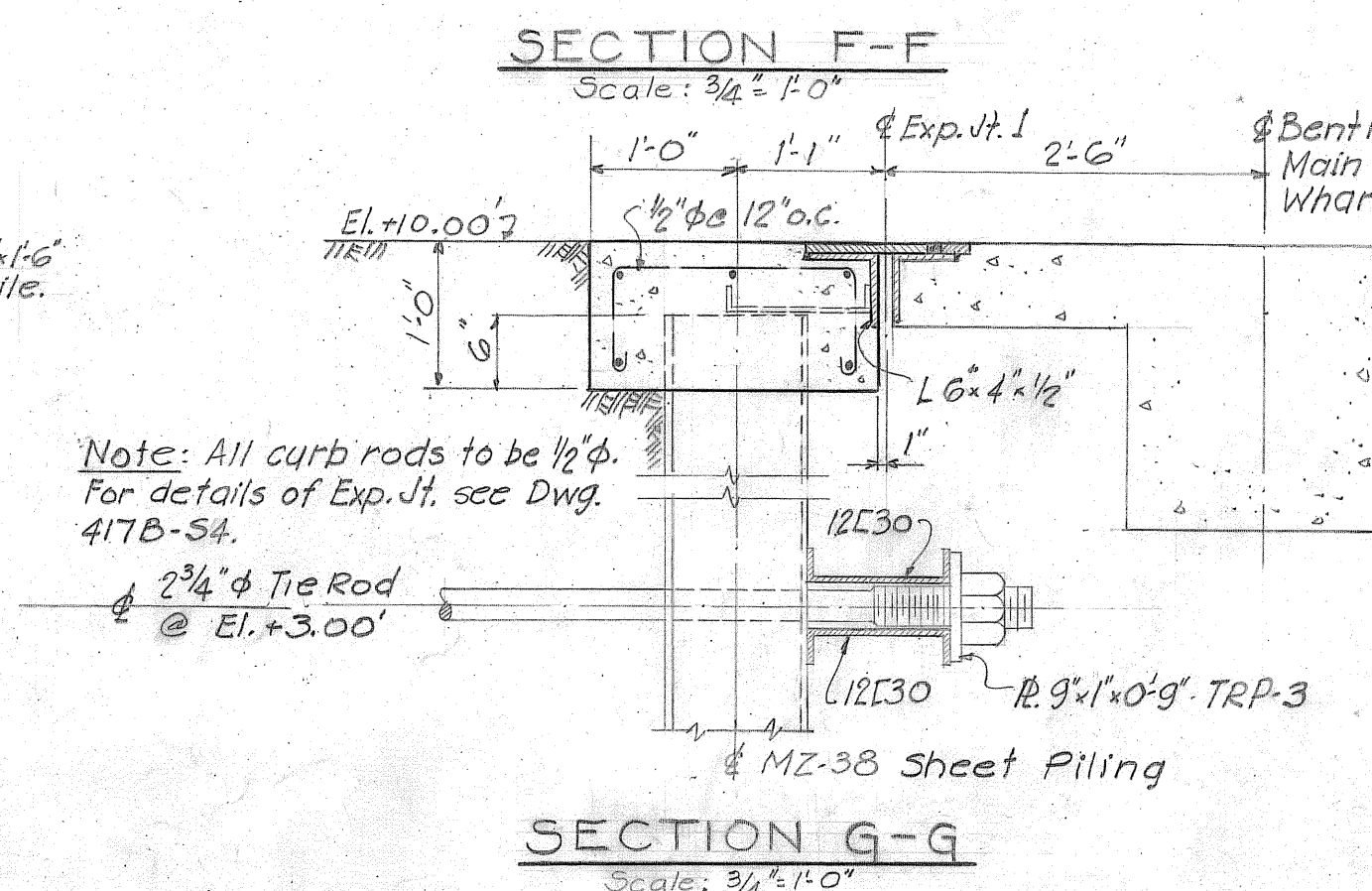
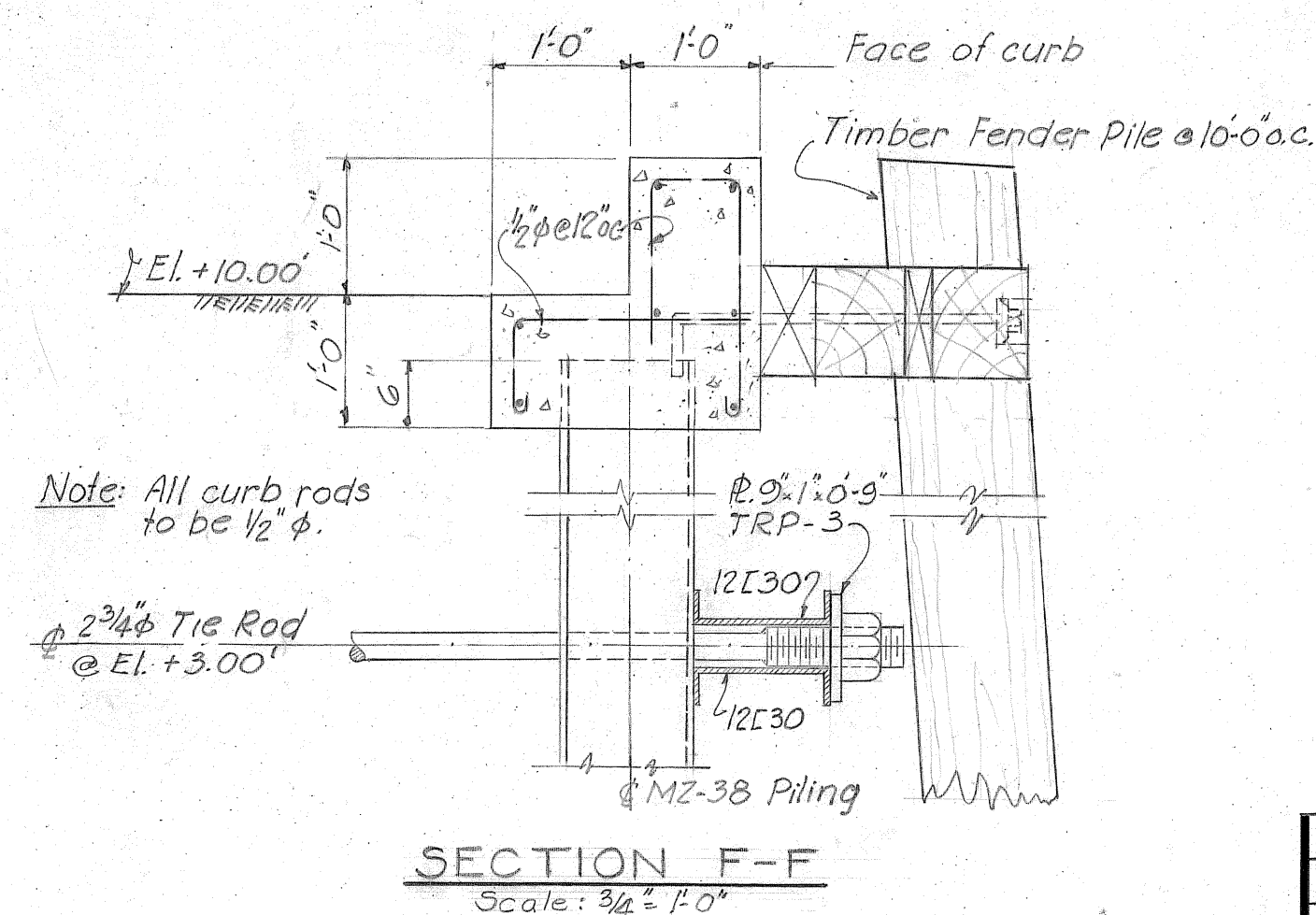
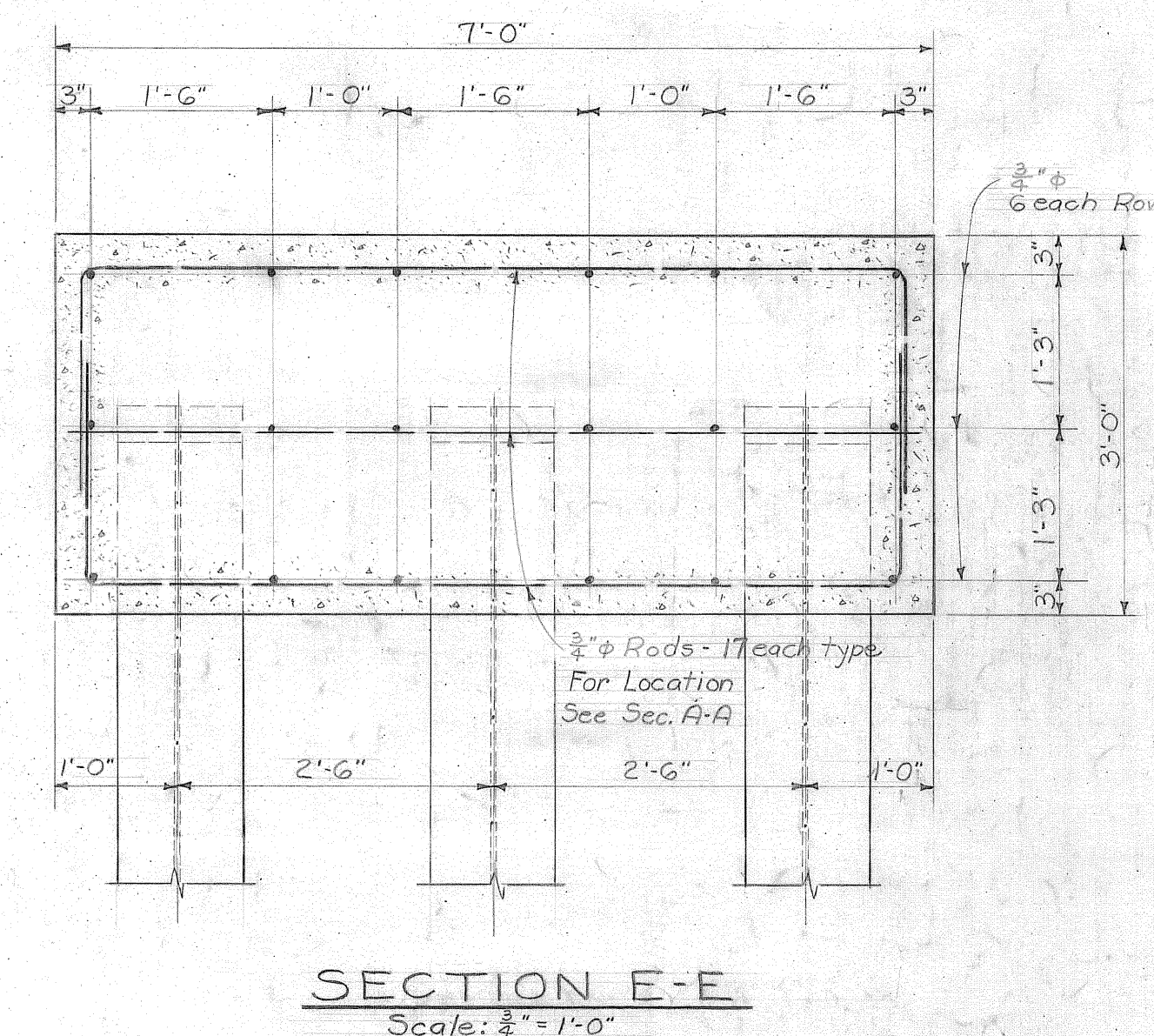
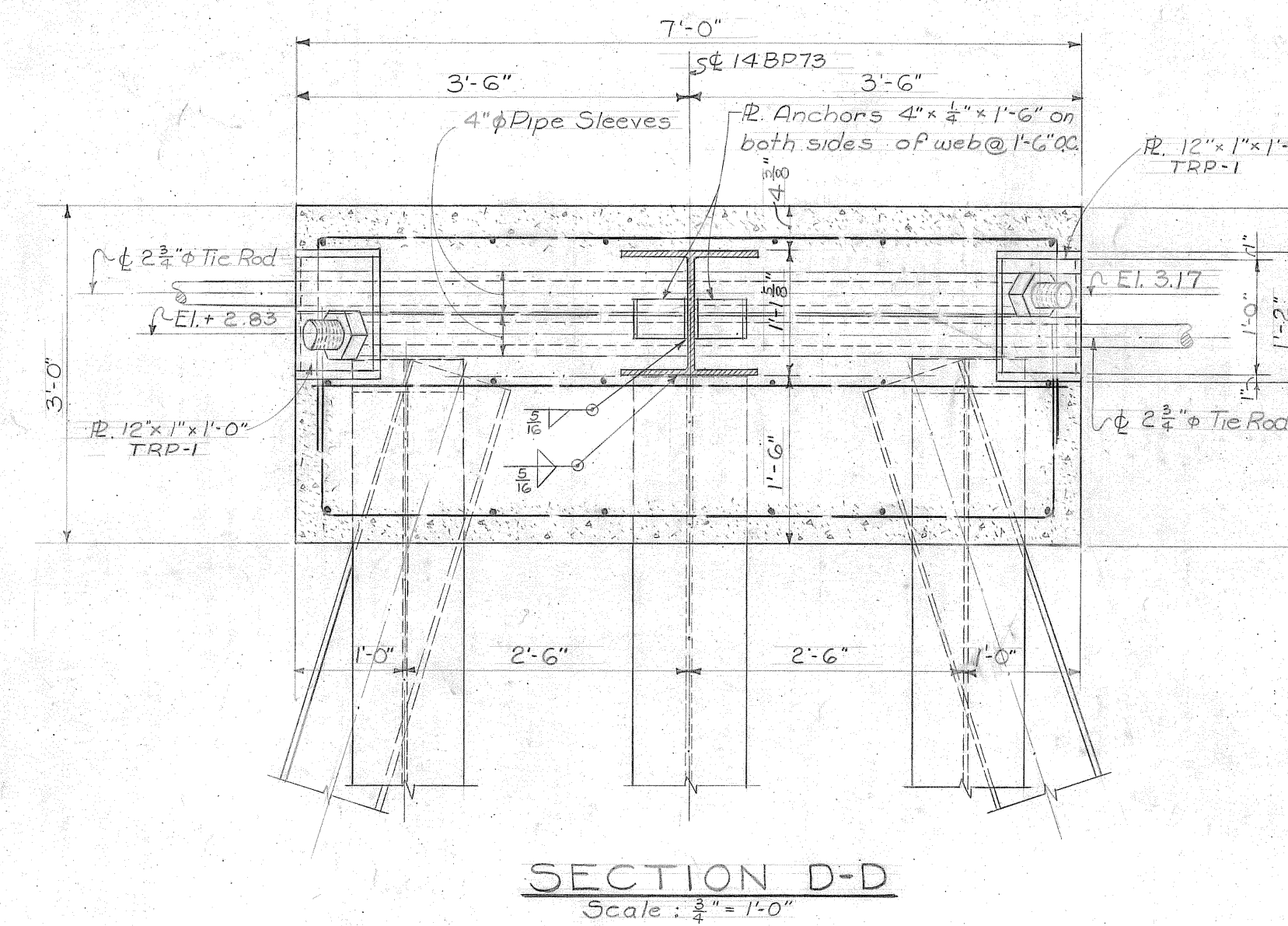
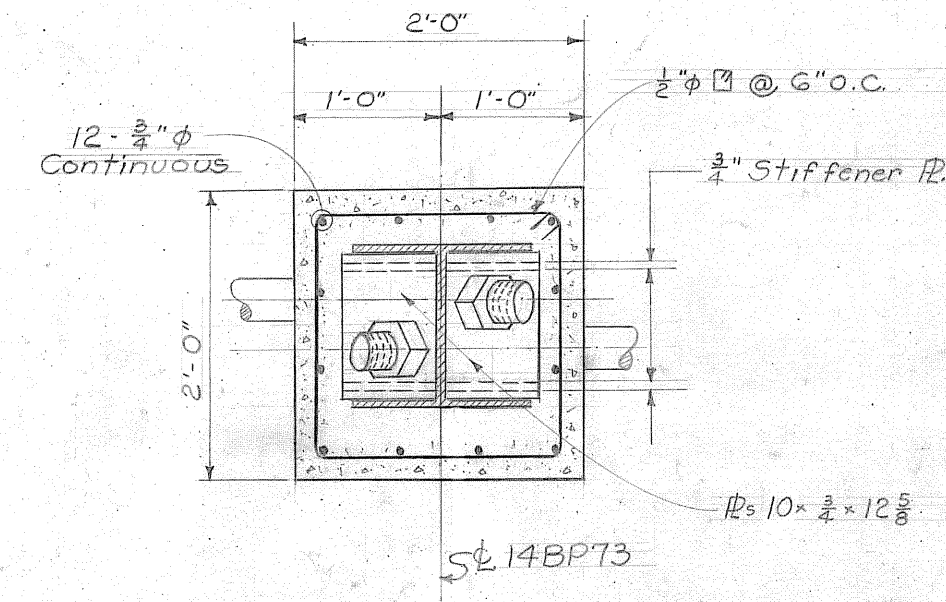
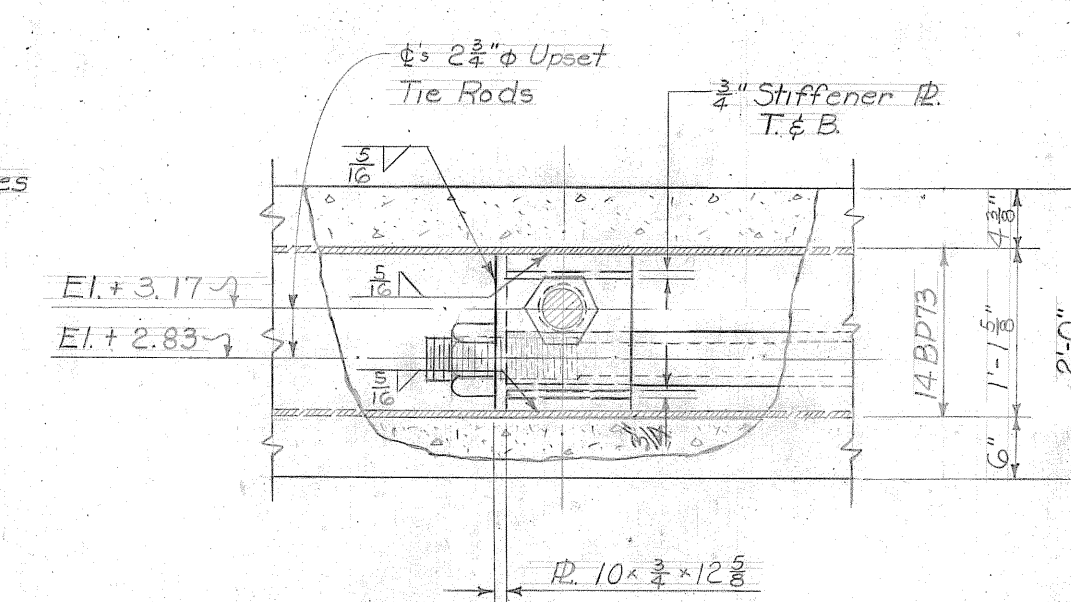
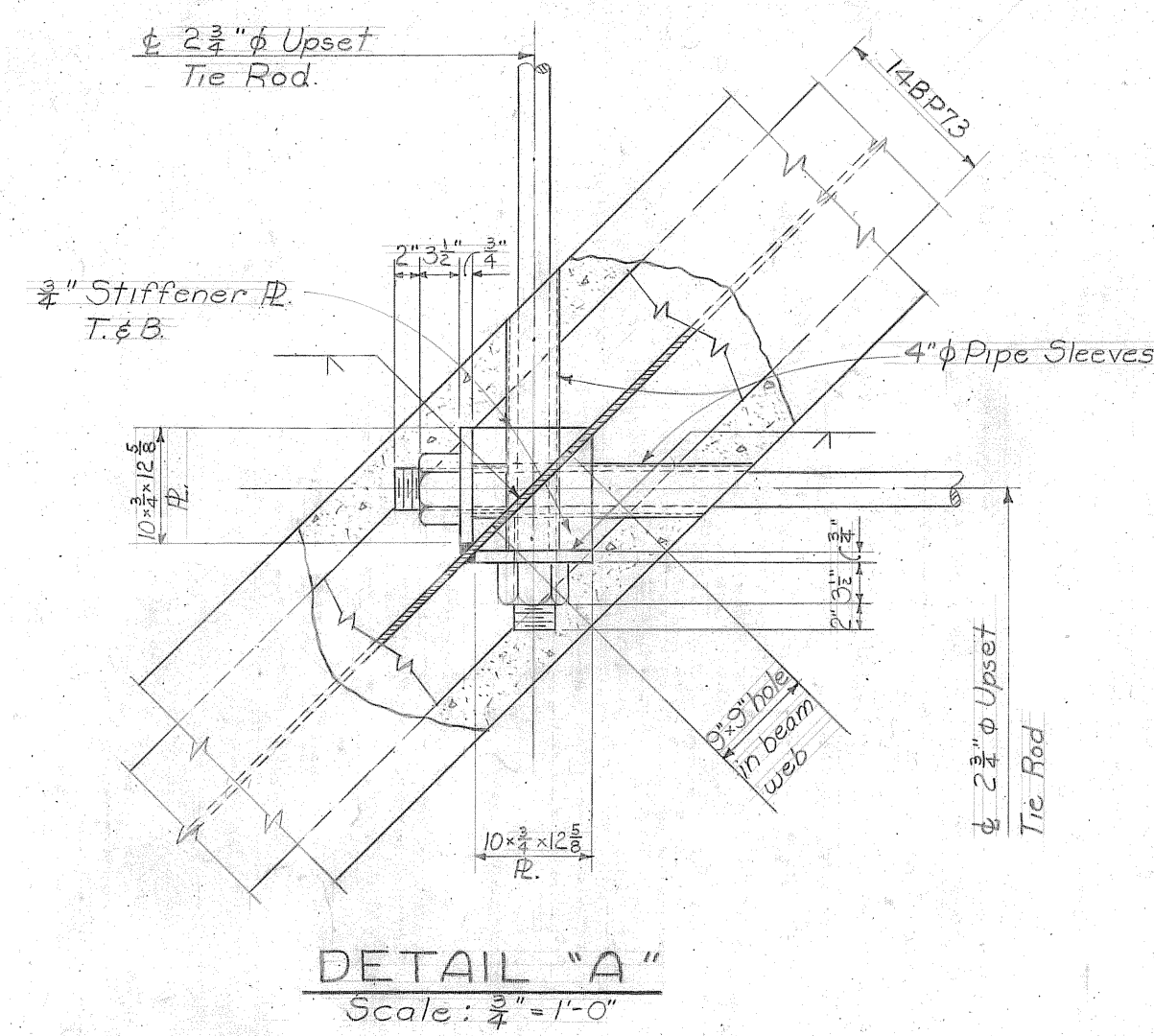
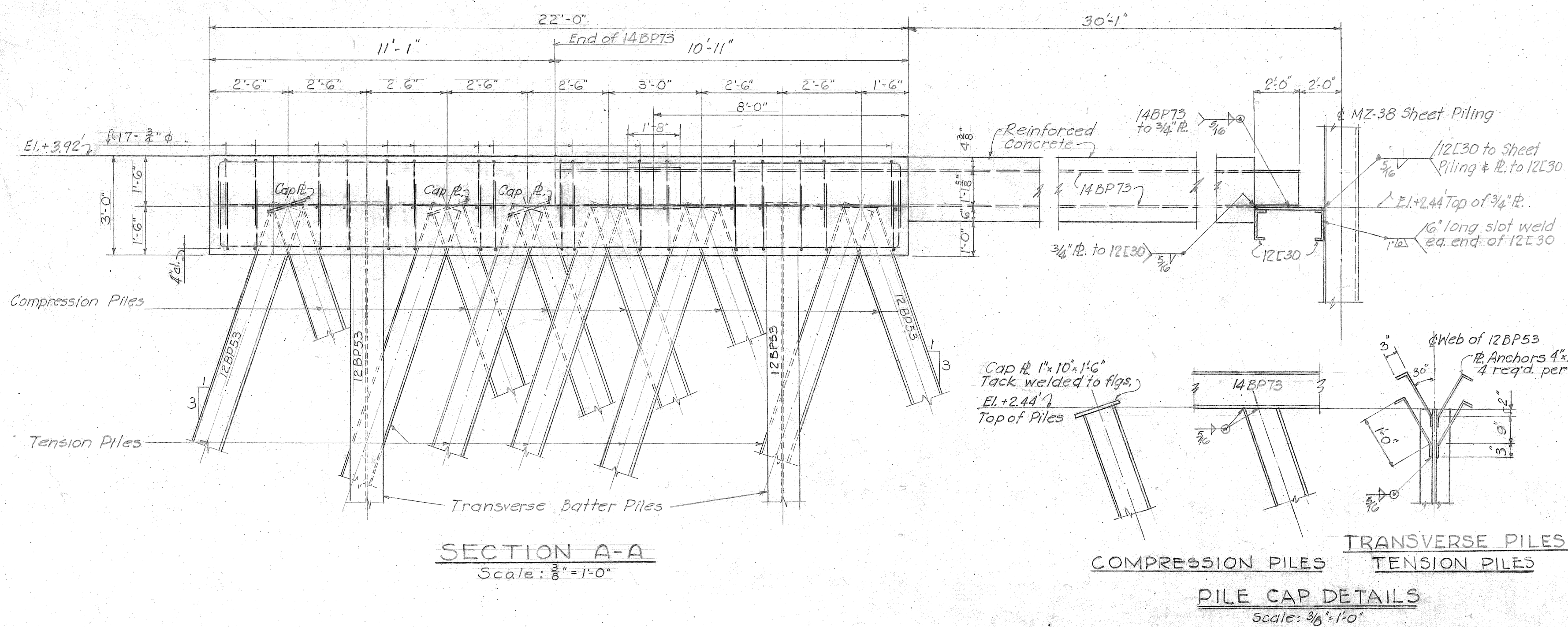
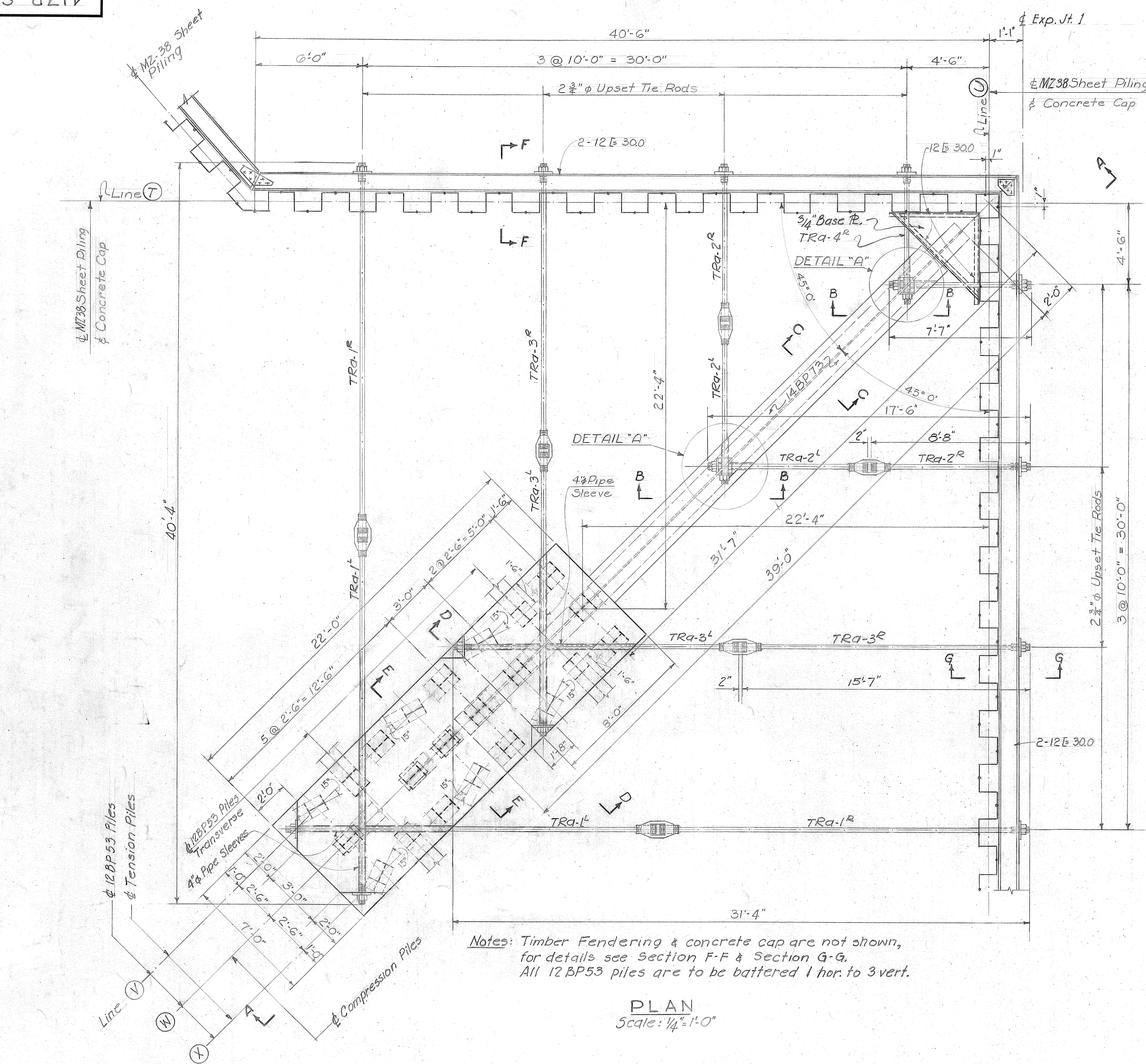


SECTION B-B

Notes:
For location of Sections A-A, B-B & C-C, see Dwg. 417B-S18
For details of Fendering, Tie Rods, Woles, Deadmen, etc. see drawing 417B-S16
Conveyor & conveyor supports are not shown.

REFERENCE DRAWINGS
North Barge Wharf - Sections & Details 417B-S16
West Barge Wharf - Plans & Elevations 417B-S18

NO.	DATE	BY	REMARKS
2	4/17/52	H.E.	In Sects. B-B & C-C, replaced slag fill with oyster shells & re-placed gravel filter blanket with crushed stone or oyster shells.
1	3/3/52	W.R.	Added details of Tie Rod Closure Fl.
REVISIONS			
TENNESSEE COAL AND IRON DIVISION UNITED STATES STEEL COMPANY FAIRFIELD, ALABAMA			
ORE TERMINAL MOBILE ALABAMA			
WEST BARGE WHARF TRANSVERSE SECTIONS			
KNAPPEN TIPPETTS ABBETT ENGINEERING COMPANY 62 WEST 47TH STREET NEW YORK, N. Y.			
DRAWN BY: H.R.R. & W.P.	SCALE: 1/8" = 1'-0"	DRAWING NO. 417B-S19	
TRACED BY: H.R.R. & W.P.	DATE: February 13, 1952		
CHECKED BY: H.E.	APPROVED BY: <i>James H. Smith</i>		

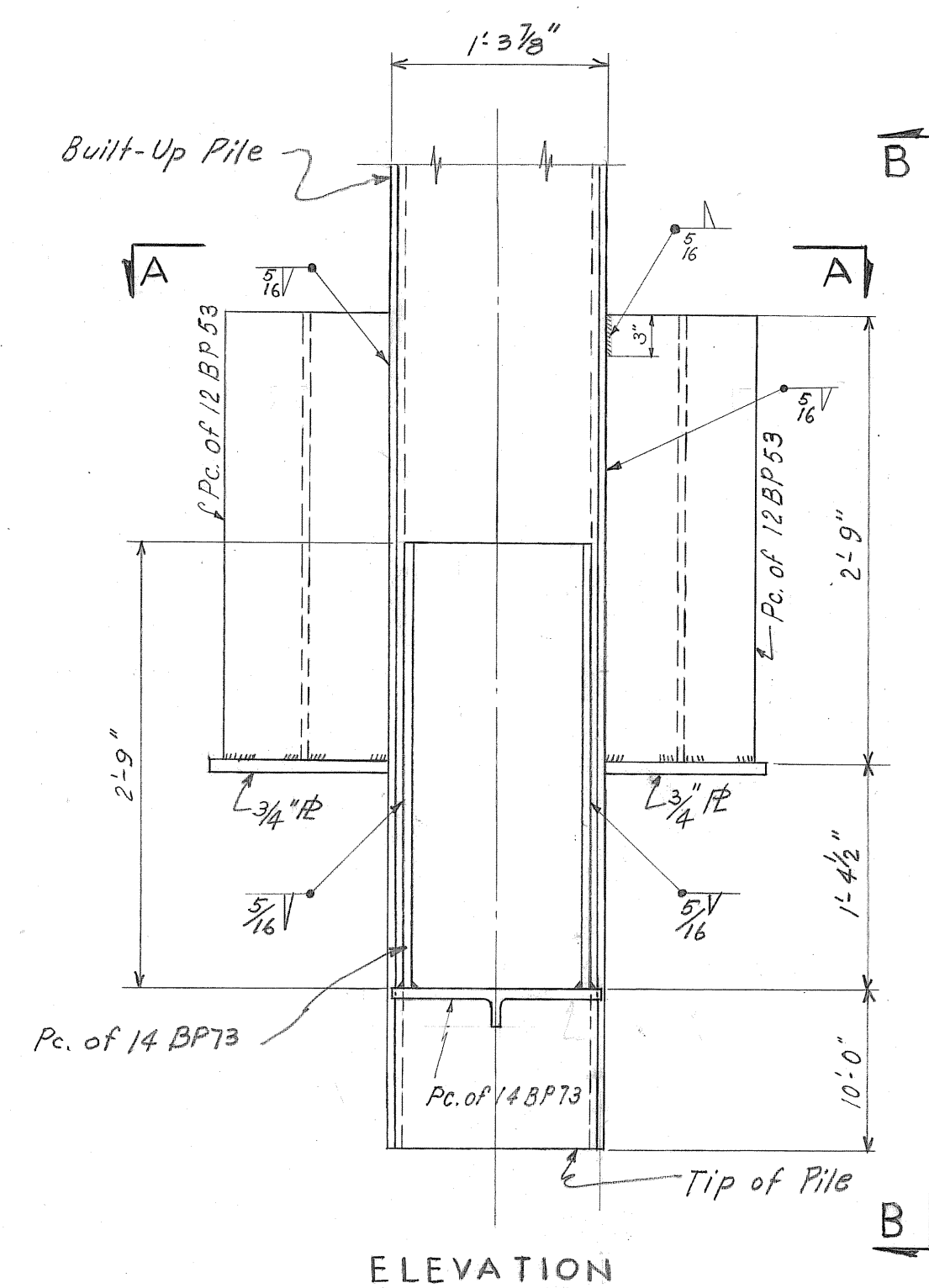


For details of rendering see Dwg. 417B-S16
Work this drawing with Dwg. 417B-S18
All concrete edges to be chamfered one inch unless
otherwise noted.
All reinforcing steel to have two inches minimum
cover unless otherwise noted.

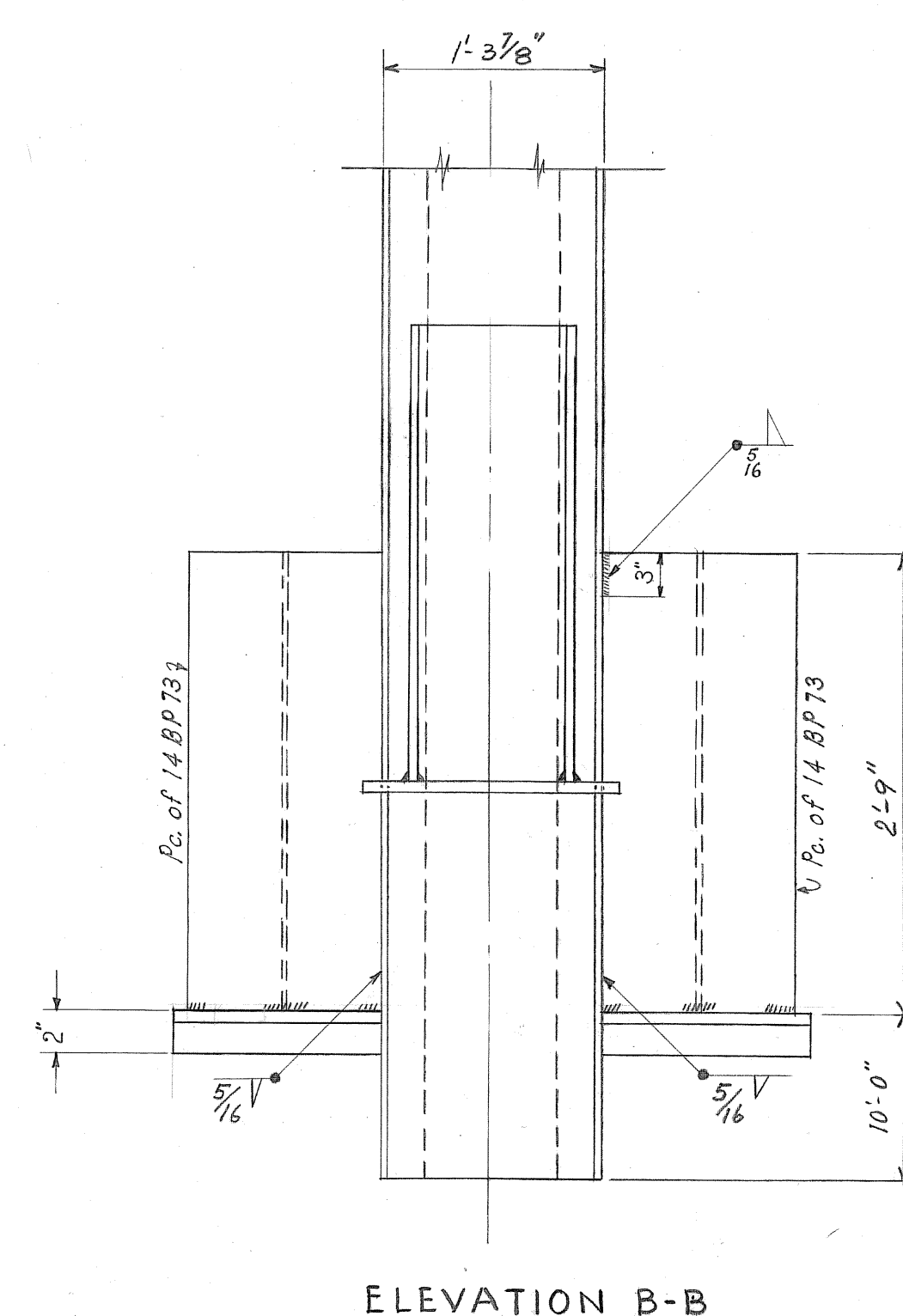
REFERENCE DRAWINGS

Main Wharf - Deck Plan I _____ 417B-53
Main Wharf - Deck Plan II _____ 417B-54
North Barge Wharf - Sections & Details _____ 417B-54
West Barge Wharf - Plans & Elevations _____ 417B-51B
West Barge Wharf - Transverse Sections _____ 417B-51B

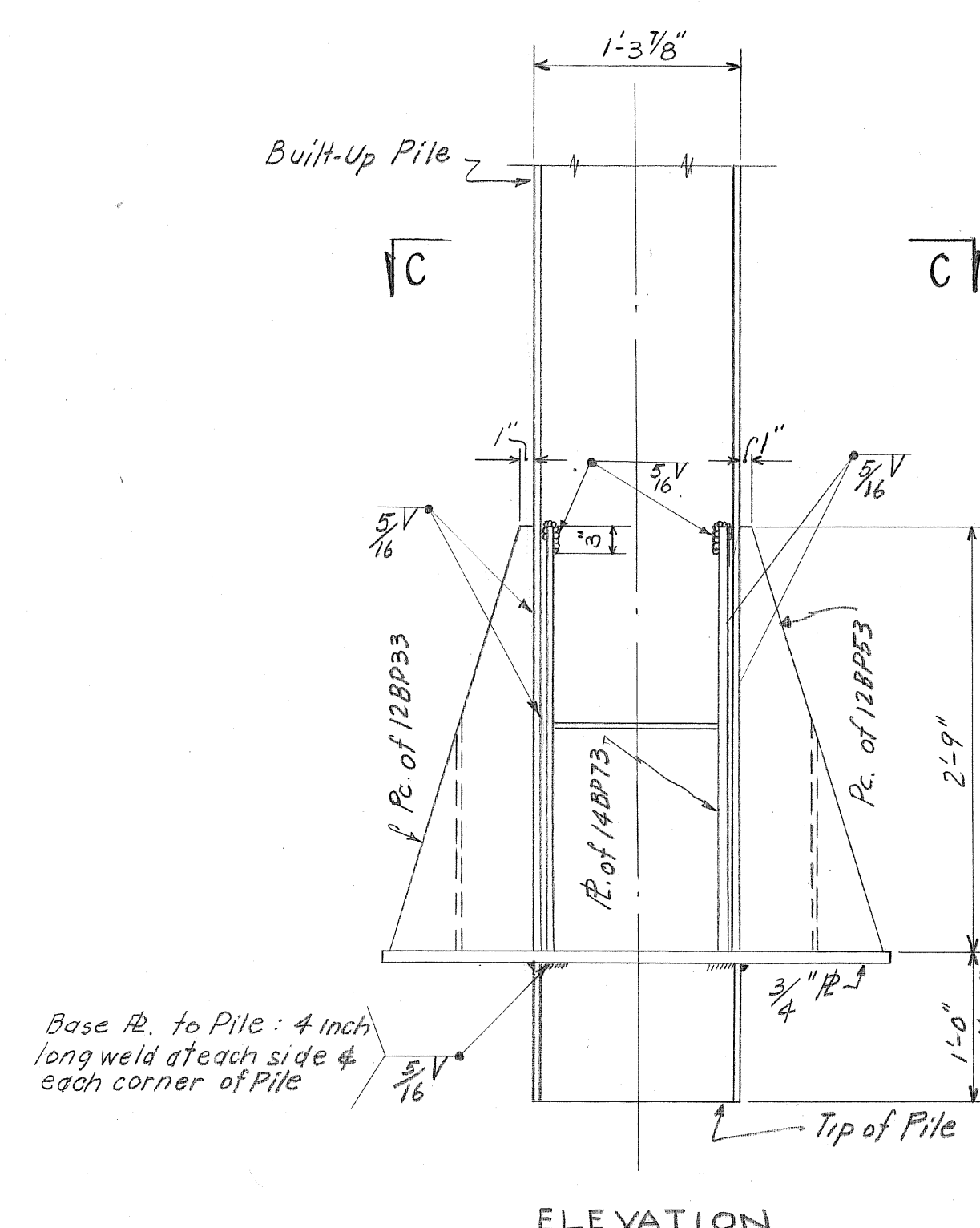
NO.	DATE	BY	REMARKS
REVISIONS			
TENNESSEE COAL AND IRON DIVISION UNITED STATES STEEL COMPANY FAIRFIELD, ALABAMA			
ORE TERMINAL MOBILE ALABAMA			
WEST BARGE WHARF DETAILS OF CORNER TIE			
KNAPPEN TIPPETTS ABBETT ENGINEERING COMPANY 62 WEST 47TH STREET NEW YORK, N. Y.			
DRAWN BY: J.K. TRACED BY: J.K. CHECKED BY: H.E.	SCALE: AS NOTED DATE: February 18, 1952 APPROVED BY: <i>H. E. Stratten</i>	DRAWING NO. 417B-S-20	



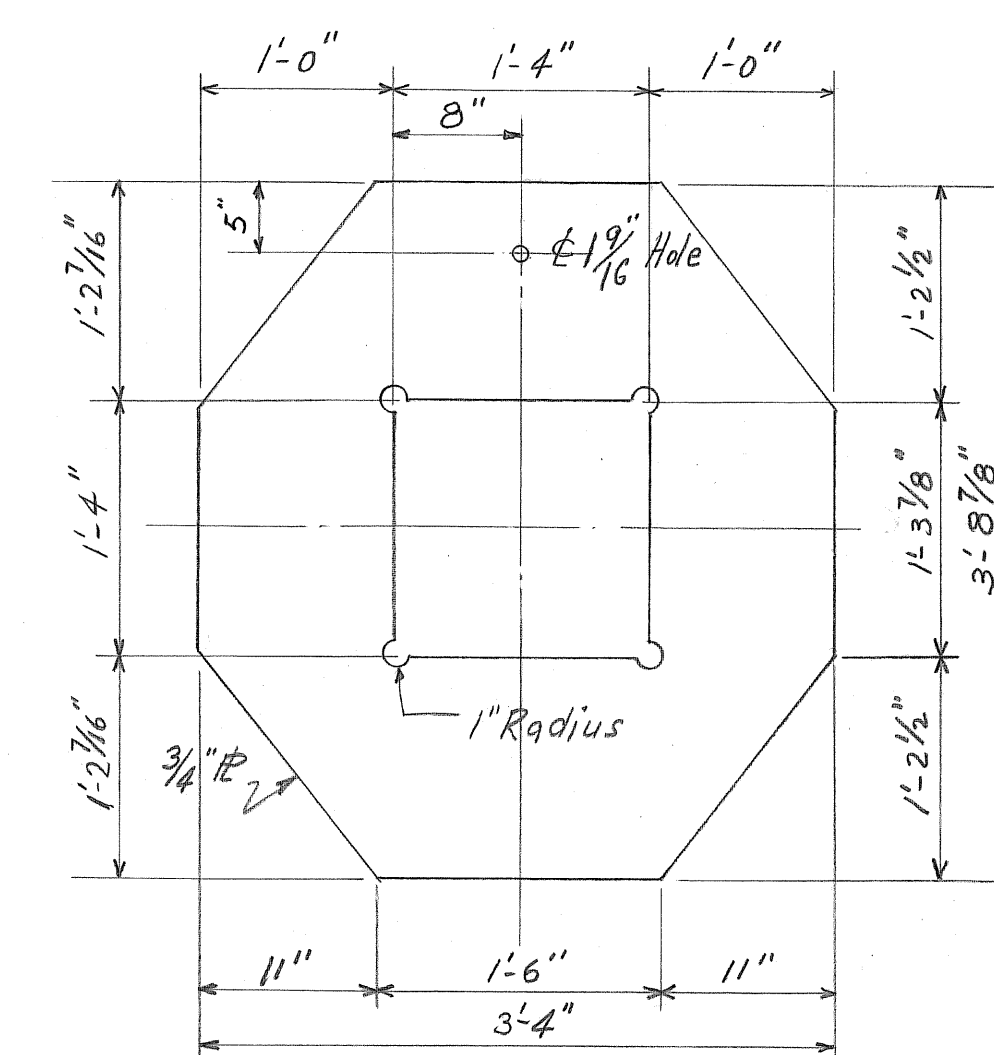
ELEVATION



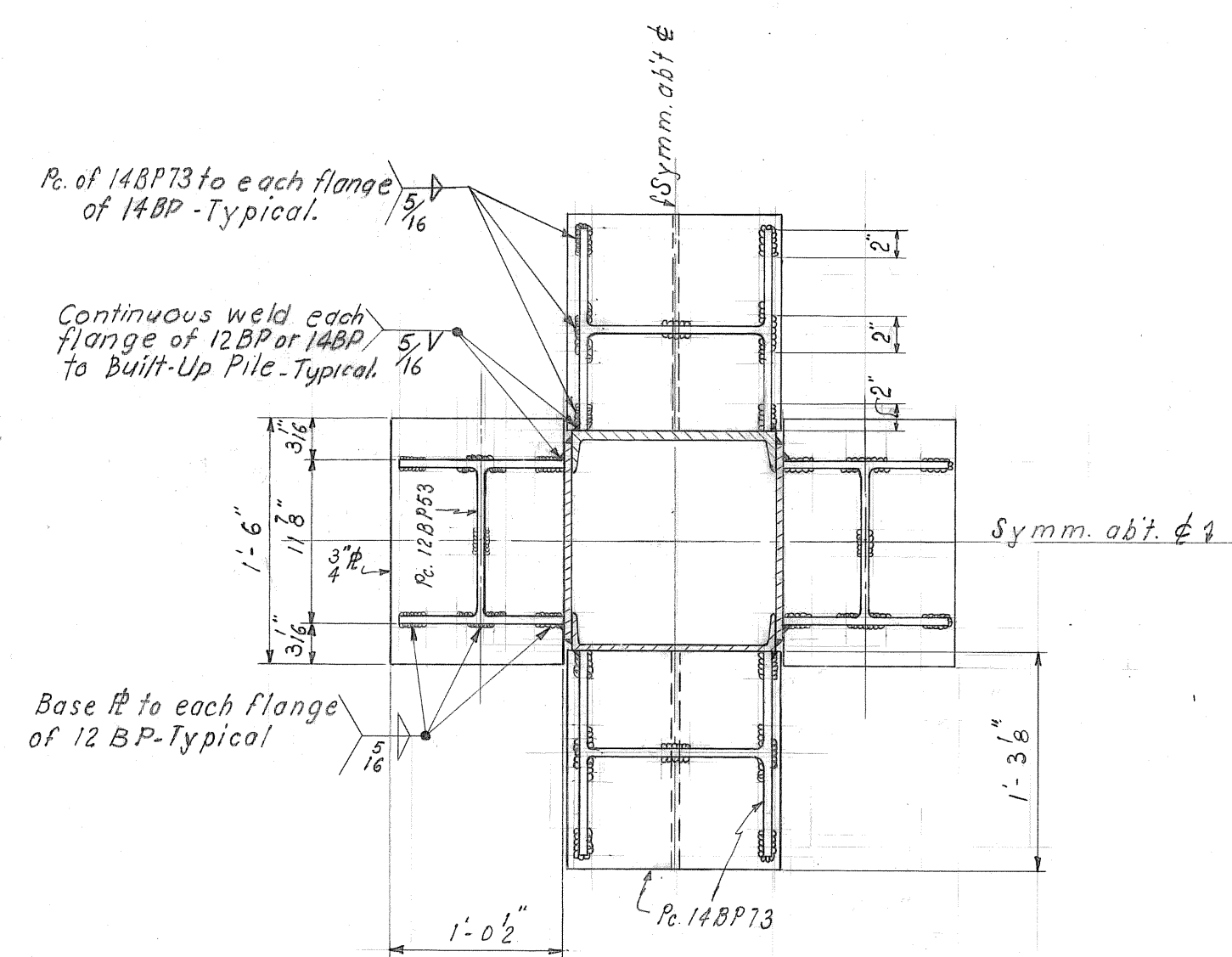
ELEVATION B-B



ELEVATION



DETAIL OF BASE PLATE

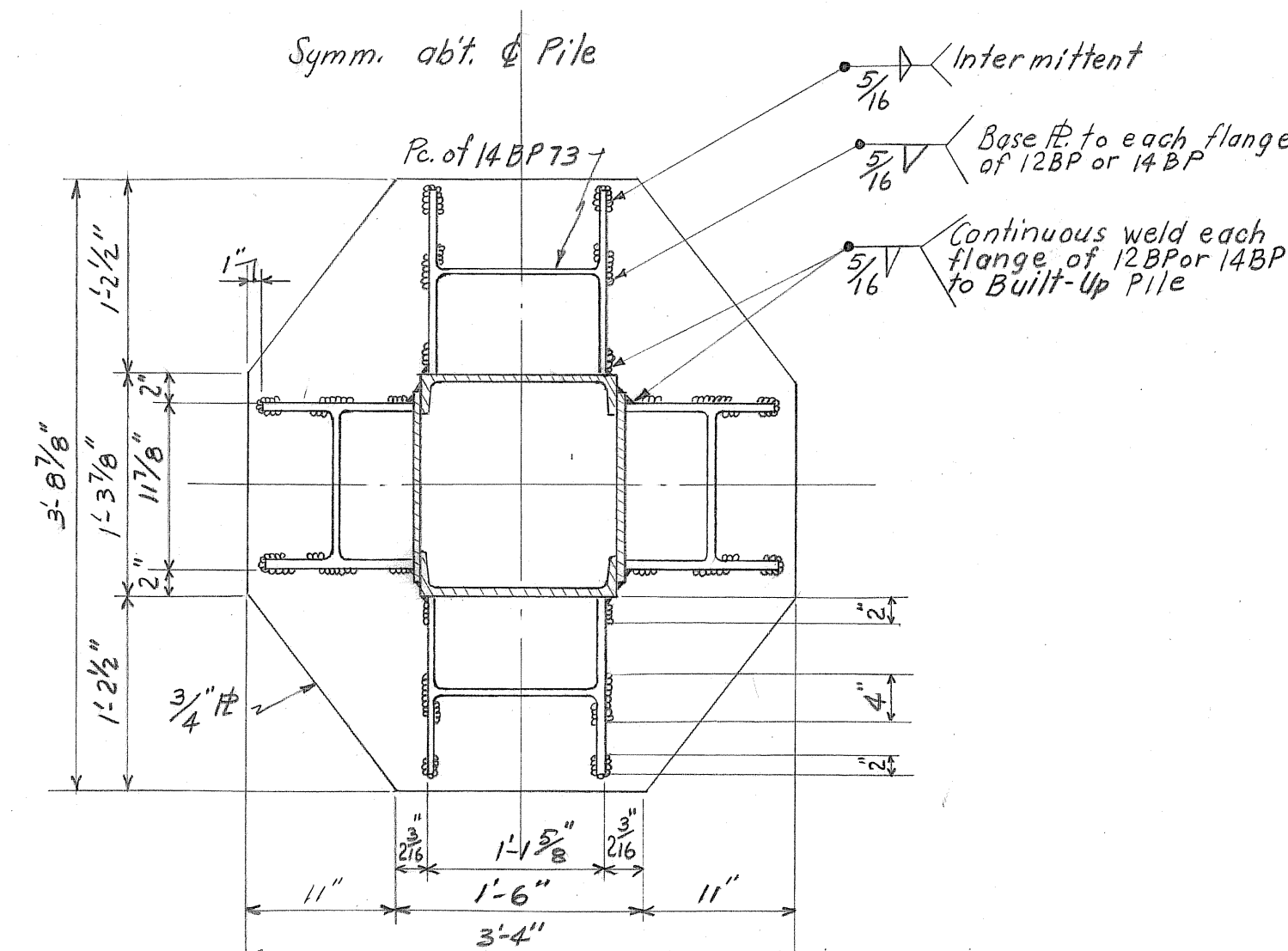


SECTION A-A

DETAILS - TYPE "A"

NOTE:

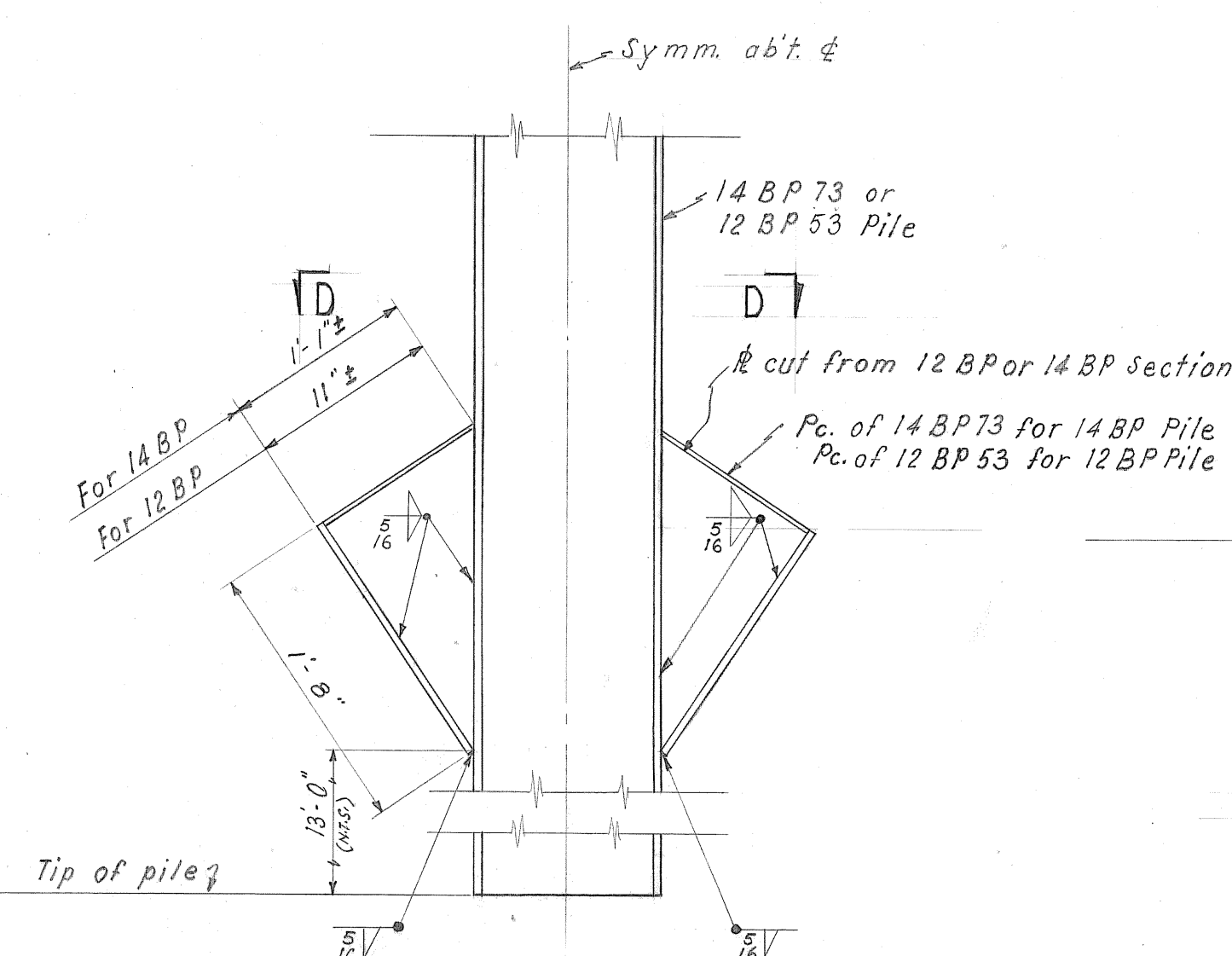
NOTE:
Both pcs. of 12BP53 & 3#s attached thereto,
may be omitted if specified pile resistance
& required minimum penetration can be
attained by the use of such a modification
of "Detail A"



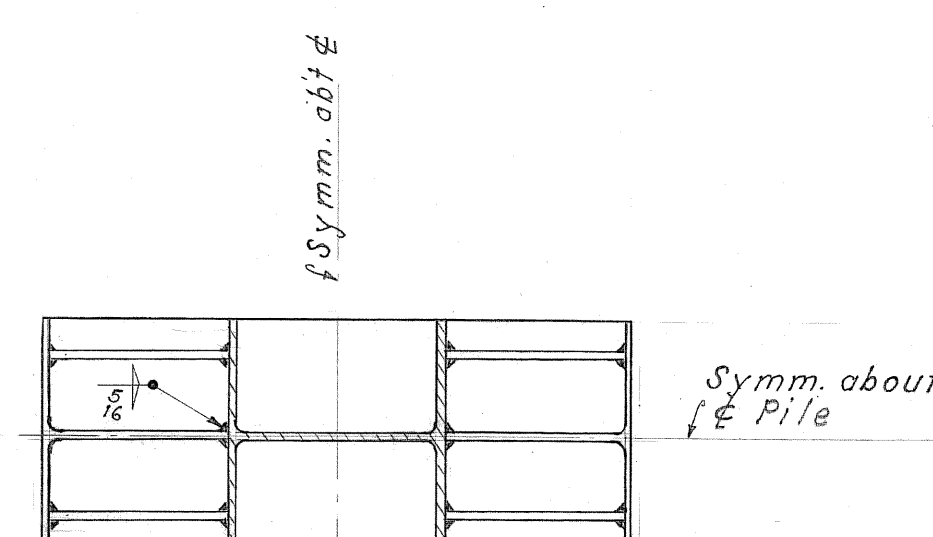
SECTION C-C

DETAILS - TYPE "B" (ALTERNATE)

DETAILS OF DRIVING POINTS FOR BUILT UP PILES



DETAILS OF DRIVING POINT FOR "H" PILES

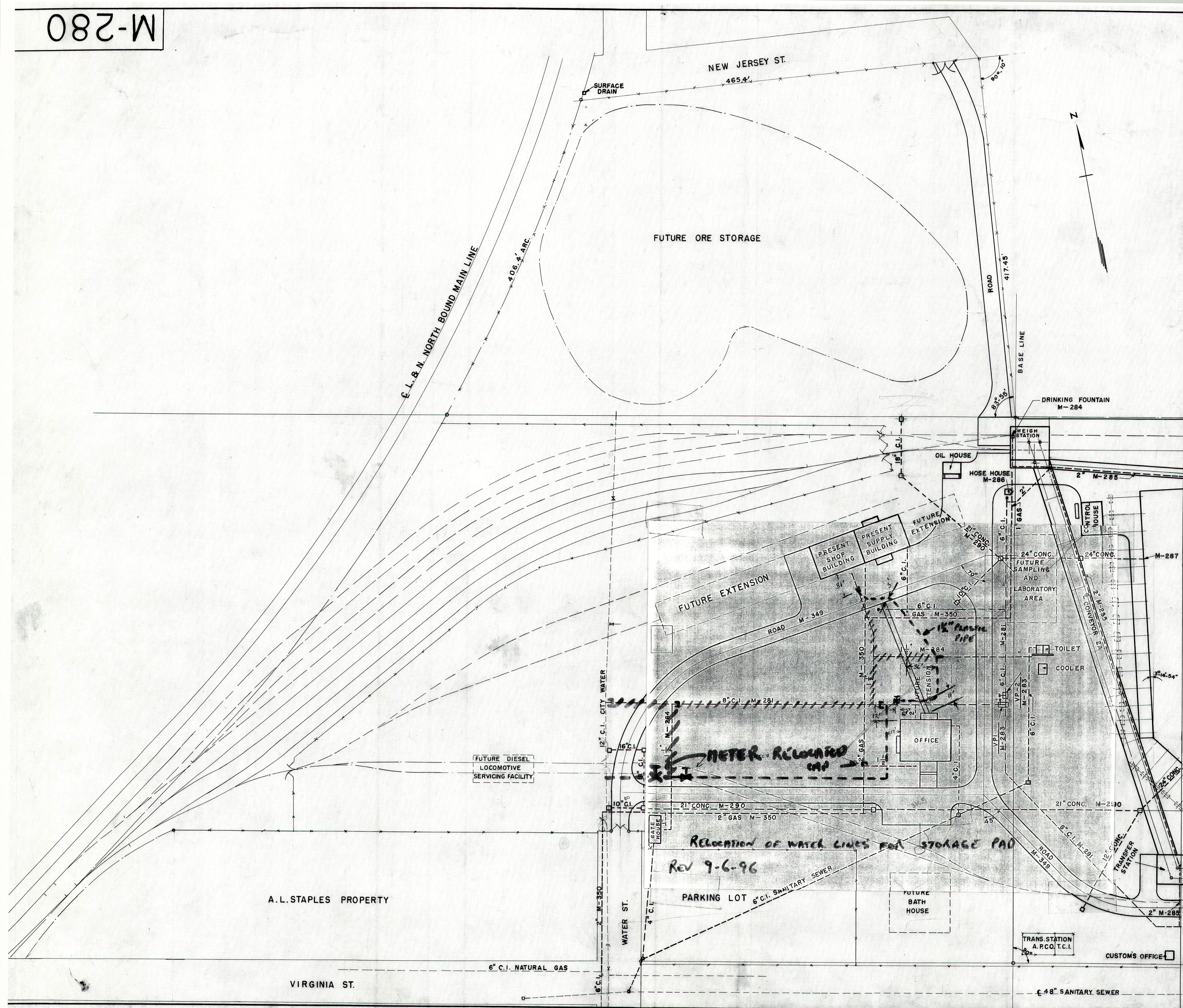


SECTION D-D

REFERENCE DRAWINGS

MAIN WHARF - PILE PLAN & DETAILS	417 B - S2
MAIN WHARF - TRANSVERSE SECTIONS	417 B - S6

NO.	DATE	BY	REMARKS		
REVISIONS					
TENNESSEE COAL AND IRON DIVISION UNITED STATES STEEL COMPANY FAIRFIELD ALABAMA					
ORE TERMINAL MOBILE ALABAMA					
DETAILS OF PILE DRIVING POINTS					
KNAPPEN TIPPETTS ABBETT ENGINEERING COMPANY 62 WEST 47TH STREET NEW YORK, N. Y.					
DRAWN BY: J.R. TRACED BY: J.P. CHECKED BY: H.E.		SCALE: 1 INCH = 1'-0" DATE: DECEMBER 5, 1952 APPROVED BY: <i>James H. Knapp</i>		DRAWING NO. 417B-S27	



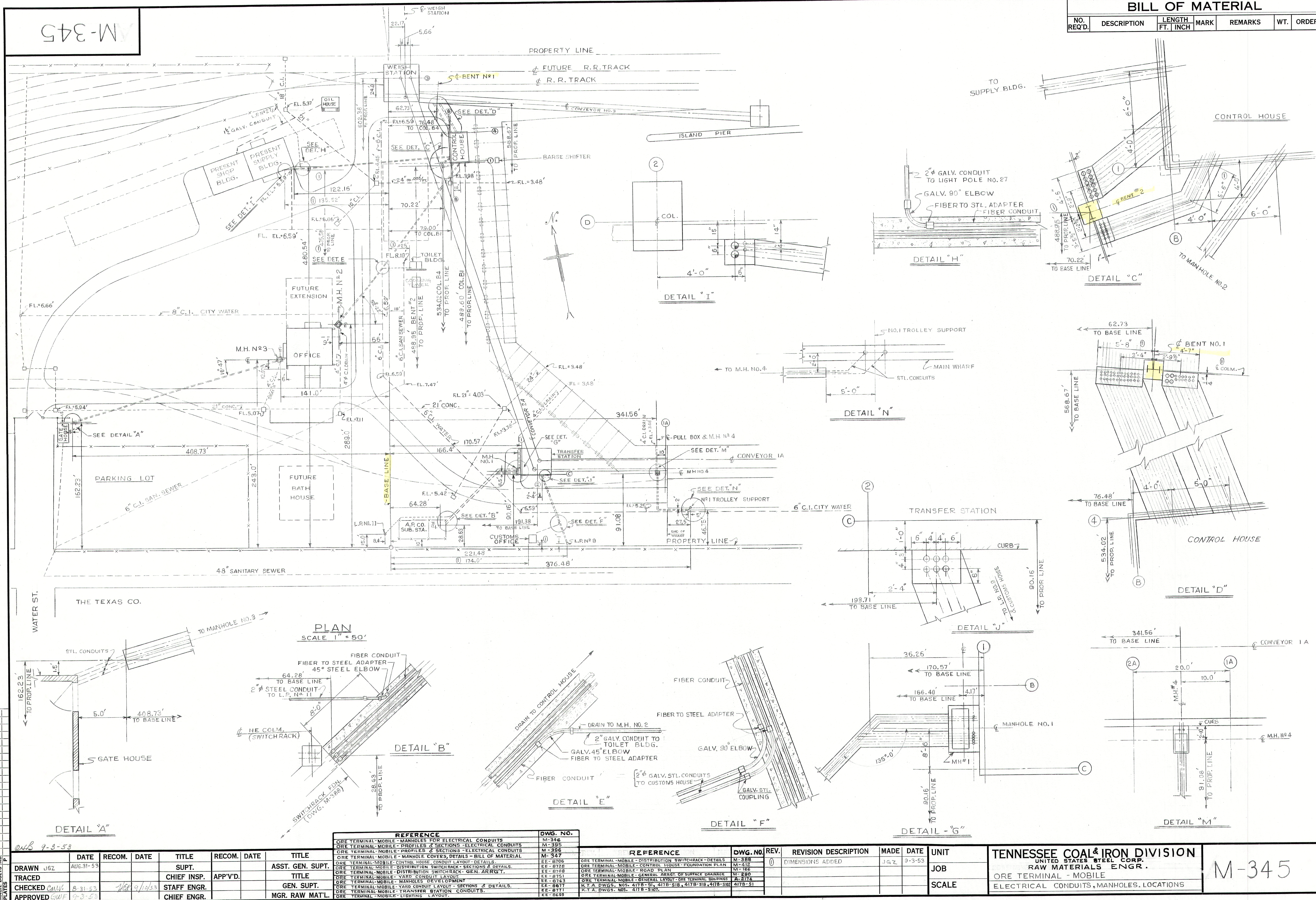
MATCH LINE SHEET NO. 2

<p>REVISIONS</p>		<p>TENNESSEE COAL & IRON DIVISION</p>	
<p>UNITED STATES STEEL CORPORATION</p>		<p>RAW MATERIAL DIVISION</p>	
<p>WORKS MOBILE</p>		<p>DEPARTMENT ORE TERMINAL</p>	
<p>SUBJECT GENERAL ARRANGEMENT OF PIPING</p>		<p>MADE A.C.H. 6-19-53 TRACED O.T.F.N. 6-23-53</p>	
<p>CHECKED-ENGINEERING & SAFETY A.C.H. 8-7-53</p>		<p>APPROVED <i>E.B. Ellis</i> 8-7-53 CHIEF DRAFTSMAN</p>	
<p>APPROVED <i>R.R. McQuinn</i> 8/11/53 CHIEF ENGINEER</p>		<p>SCALE 1"=50'-0"</p>	
<p>APPRO. NO.</p>	<p>ACCT. NO.</p>	<p># M-280</p>	
<p>ORDER NO.</p>	<p>SHEET NO.</p>	<p>SHEET 1 OF 2</p>	
<p>WORK SAFELY</p>			

M-345

BILL OF MATERIAL

NO. REQ'D.	DESCRIPTION	LENGTH FT. INCH	MARK	REMARKS	WT.	ORDER
------------	-------------	-----------------	------	---------	-----	-------



9-3-53

DATE	RECOM.	DATE	TITLE	RECOM.	DATE	TITLE
JUN 2		AUG 31-53	SUPT.			ASST. GEN. SUPT.
TRACED			CHIEF INSP.	APP'V'D.		TITLE
CHECKED	9-3-53	9-3-53	STAFF ENGR.			GEN. SUPT.
APPROVED	9-3-53		CHIEF ENGR.			MGR. RAW MAT'L

REFERENCE

DWG. NO.

REV.

REVISION DESCRIPTION

MADE

DATE

UNIT

JOB

SCALE

TENNESSEE COAL & IRON DIVISION

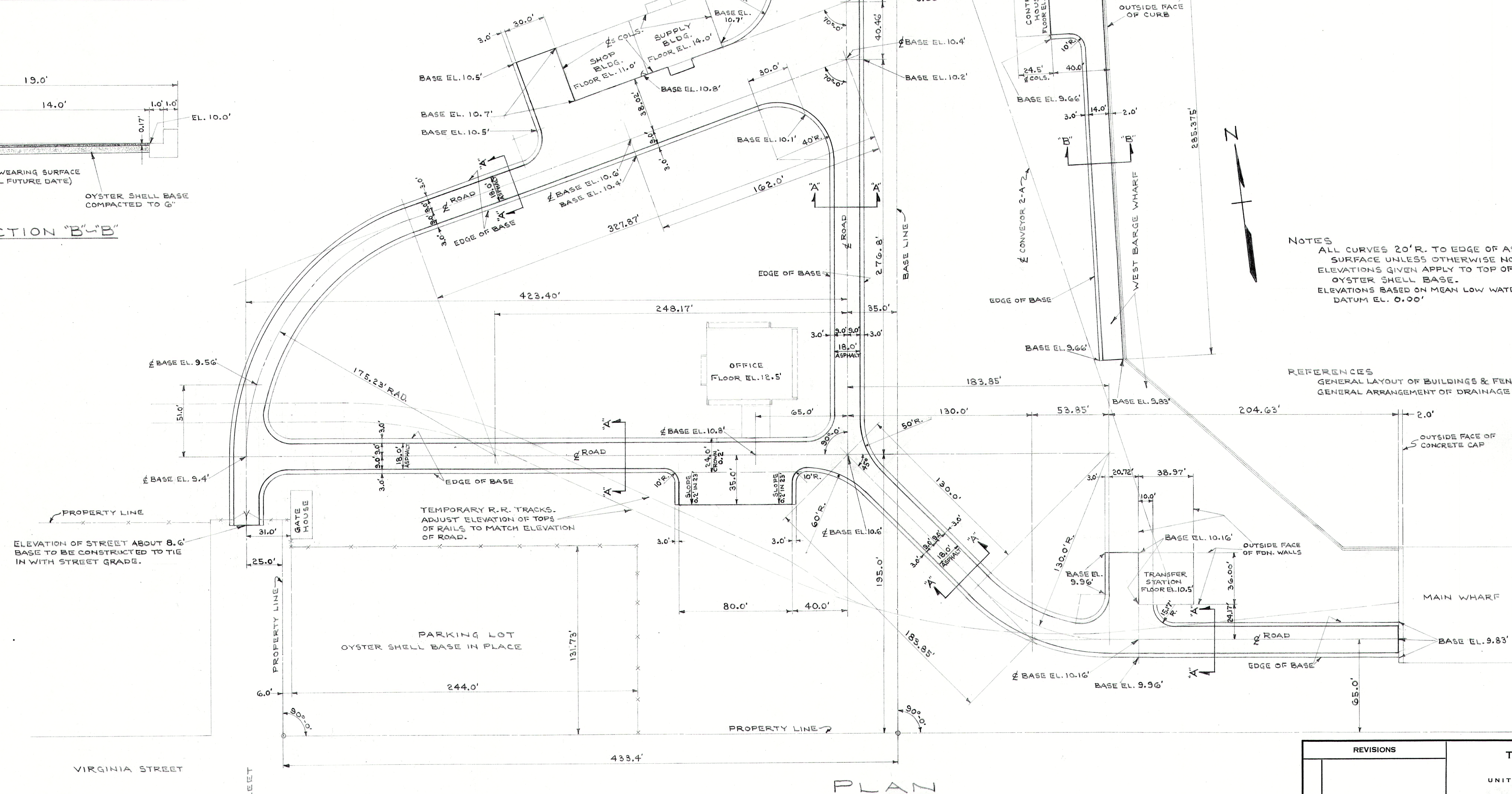
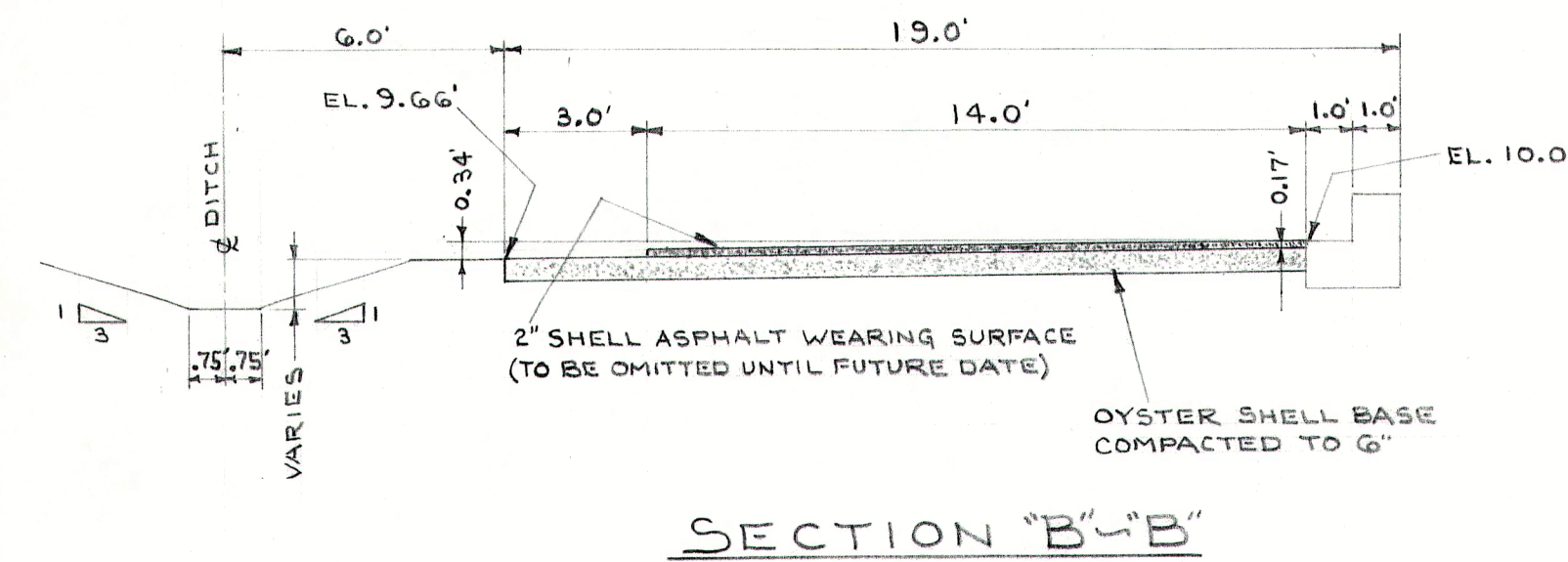
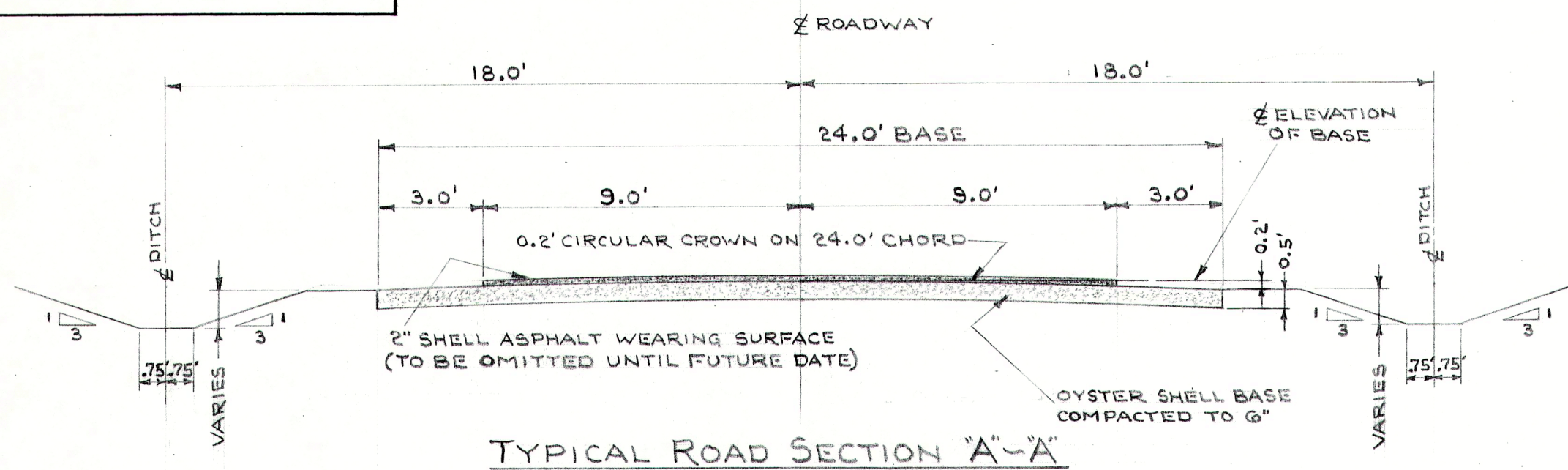
UNITED STATES STEEL CORP.

RAW MATERIALS ENGR.

ORE TERMINAL - MOBILE

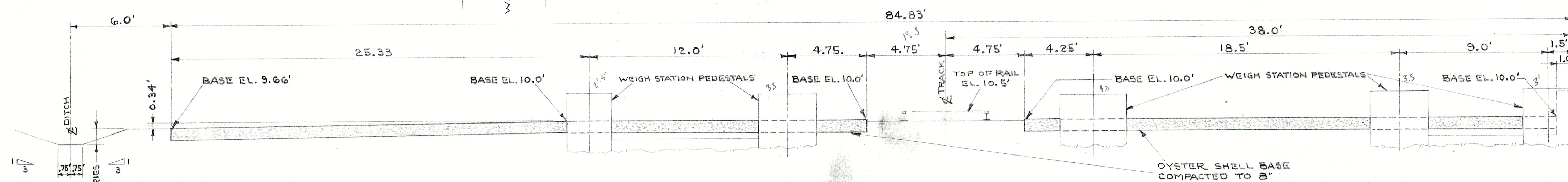
ELECTRICAL CONDUITS, MANHOLES, LOCATIONS

M-345



NOTES
ALL CURVES 20' R. TO EDGE OF ASPHALT SURFACE UNLESS OTHERWISE NOTED.
ELEVATIONS GIVEN APPLY TO TOP OF COMPACTED OYSTER SHELL BASE.
ELEVATIONS BASED ON MEAN LOW WATER DATUM EL. 0.00'

REFERENCES
GENERAL LAYOUT OF BUILDINGS & FENCES - T.C.I. DRAWING A-2174
GENERAL ARRANGEMENT OF DRAINAGE - T.C.I. DRAWING M-290



REVISIONS		TENNESSEE COAL & IRON	
		DIVISION	
		UNITED STATES STEEL CORPORATION	
		DIVISION RAW MATERIALS WORKS MOBILE	
		DEPARTMENT ORE TERMINAL	
		SUBJECT ROADS	
		PLAN AND SECTIONS	
		DRAWN P.H.G. 7-2-53 TRACED	
		CHECKED H.W.G. 7-7-53 SQUAD LEADER H.W. 7-7-53	
		APPROVED E.B. ELLIS 7/7/53 CHIEF DRAFTSMAN	
		APPROVED P.P. 7/7/53 CHIEF ENGINEER	
		SCALE 1"=40' 2 1/2"=1'-0"	
		WORKS NO.	
APPRO. NO.		M-349	
ACCT. NO.			
ORDER NO.			
SHEET NO.			
MICRO FILM			
		WORK SAFELY	