

EMERGENCY OPERATIONS FLOODWALL STRUCTURES

Updated 20 March 2000

These instructions do not apply to this .pdf file - For Table of Contents only.

INSTRUCTIONS: If stated (in RED), please load the correct DVD or CD disk in the internal DVD/CD drive of the NOTEBOOK or load the correct JAZ disk in the external 2GB JAZ drive before clicking the related **hypertexted (BLUE) file name TWICE**. Otherwise, the data set resides on an internal 25GB disk drive of the NOTEBOOK.

LAKE PONTCHARTRAIN, LOUISIANA AND VICINITY, LAKE PONTCHARTRAIN BARRIER PLAN

INNER HARBOR NAVIGATION CANAL WEST LEVEE

- FLORIDA AVE. TO IHNC LOCK FLOODWALL

File Number H-4-24263; Spec Number
Structures Branch Stick File Number

SHEET #	DRAWING TITLE
	GENERAL
1	General Map, Vincinity Map, And Index
File:	H-4-24263-01
2	Photo Plan
File:	H-4-24263-02
3	Log of Borings
File:	H-4-24263-03
4	Plan And Profile
File:	H-4-24263-04
5	Plan And Profile
File:	H-4-24263-05
6	Plan And Profile
File:	H-4-24263-06
7	Plan And Profile
File:	H-4-24263-07
8	Plan And Profile
File:	H-4-24263-08
9	Plan And Profile
File:	H-4-24263-09

10	Plan And Profile
File:	H-4-24263-10
11	Plan And Profile
File:	H-4-24263-11
12	Plan And Profile
File:	H-4-24263-12
13	Plan And Profile
File:	H-4-24263-13
14	Plan And Profile
File:	H-4-24263-14
15	Typical Sections
File:	H-4-24263-15
16	Typical Sections
File:	H-4-24263-16
17	Typical Sections
File:	H-4-24263-17
18	Typical Wall Sections
File:	H-4-24263-18
19	Typical Wall Joints
File:	H-4-24263-19
20	Corrosion Protection And Reference Bolts
File:	H-4-24263-20

PILING LAYOUTS

21	Steel Sheet Piling Layout
File:	H-4-24263-21
22	Steel Sheet Piling Layout
File:	H-4-24263-22
23	Steel Sheet Piling Layout
File:	H-4-24263-23
24	Piling And Monolith Layout
File:	H-4-24263-24
25	Piling And Monolith Layout
File:	H-4-24263-25
26	Piling And Monolith Layout
File:	H-4-24263-26
27	Piling And Monolith Layout
File:	H-4-24263-27
28	Piling And Monolith Layout
File:	H-4-24263-28
29	Piling And Monolith Layout

File: [H-4-24263-29](#)
30 Piling And Monolith Layout
File: [H-4-24263-30](#)

UTILITIES, ROADS & BLDG. MODIFICATIONS

31 Utility Crossings
File: [H-4-24263-31](#)
31-A Manholes
File: [H-4-24263-31A](#)
32 Road Modifications – Gates 2, 3, And 4
File: [H-4-24263-32](#)
33 Road Modifications – Gates 4, 5, And 6
File: [H-4-24263-33](#)
34 Road Modifications – Gates 10, 11, And 12
File: [H-4-24263-34](#)
35 Road Modifications – Gate 14
File: [H-4-24263-35](#)
36 Modifications To J&L Steel And Lone Star Cement Co. Structures
File: [H-4-24263-36](#)

GATE MONOLITHS – MASONRY & REINF.

37 Monolith 15 – Gate 1
File: [H-4-24263-37](#)
38 Monolith 15 – Gate 1
File: [H-4-24263-38](#)
39 Monoliths 36 & 37 – Gate 2 And 3
File: [H-4-24263-39](#)
40 Monoliths 36 & 37 – Gate 2 And 3
File: [H-4-24263-40](#)
41 Monoliths 36 & 37 – Gate 2 And 3
File: [H-4-24263-41](#)
42 Monolith 49 – Gate 4
File: [H-4-24263-42](#)
43 Monolith 49 – Gate 4
File: [H-4-24263-43](#)
44 Monolith 55 – Gate 5
File: [H-4-24263-44](#)
45 Monolith 64 – Gate 6
File: [H-4-24263-45](#)
46 Monolith 68 – Gate 7

File: [H-4-24263-46](#)
47 **Monolith 73 – Gate 8**
File: [H-4-24263-47](#)
48 **Monolith 73 – Gate 8**
File: [H-4-24263-48](#)
49 **Monolith 99 – Gate 10**
File: [H-4-24263-49](#)
50 **Monolith 99 – Gate 10**
File: [H-4-24263-50](#)
51 **Monoliths 124 & 125 – Gate 11 And 12**
File: [H-4-24263-51](#)
52 **Monoliths 124 & 125 – Gate 11 And 12**
File: [H-4-24263-52](#)
53 **Monoliths 124 & 125 – Gate 11 And 12**
File: [H-4-24263-53](#)
54 **Monolith 138 – Gate 13**
File: [H-4-24263-54](#)
55 **Monolith 145 – Gate 14**
File: [H-4-24263-55](#)
56 **Monolith 145 – Gate 14**
File: [H-4-24263-56](#)
57 **Monolith 158 – Gate 15**
File: [H-4-24263-57](#)
57A **Monolith 158 – Gate 15**
File: [H-4-24262-57A](#)
58 **Monolith 158 – Gate 15**
File: [H-4-24263-58](#)
59 **Overhead Roller Gate Latching Device**
File: [H-4-24263-59](#)
60 **Swing Gate Latching Device & Ladders**
File: [H-4-24263-60](#)
61 **Gate Guide – Gates 1,2,4,5,6,7,8,12,14 & 15**
File: [H-4-24263-61](#)
62 **Gate Guide – Gate 10**
File: [H-4-24263-62](#)

HINGED FLAPS & GATE

63 **Monoliths 74-77 – Hinged Flaps 1,2,3 & 4**
File: [H-4-24263-63](#)
64 **Monoliths 74-77 – Hinged Flaps 1,2,3 & 4**
File: [H-4-24263-64](#)

65 **Monolith 78 – Gate 9**
File: [H-4-24263-65](#)
66 **Monolith 78 – Gate 9**
File: [H-4-24263-66](#)
67 **Hinged Flaps And Gate 9 Jib Cranes**
File: [H-4-24263-67](#)

OVERHEAD ROLLER GATES

68 **Overhead Roller Gates – Gates 1, 14 & 15**
File: [H-4-24263-68](#)
69 **Overhead Roller Gates – Gates 2, 4, 5 & 6**
File: [H-4-24263-69](#)
70 **Overhead Roller Gate – Gate 7**
File: [H-4-24263-70](#)
71 **Overhead Roller Gate – Gates 8**
File: [H-4-24263-71](#)
72 **Overhead Roller Gate – Gate 10**
File: [H-4-24263-72](#)
73 **Overhead Roller Gate – Gate 12**
File: [H-4-24263-73](#)
74 **Overhead Roller Gates – Trolley And Hanger Details**
File: [H-4-24263-74](#)
75 **Overhead Roller Gates – Seals**
File: [H-4-24263-75](#)

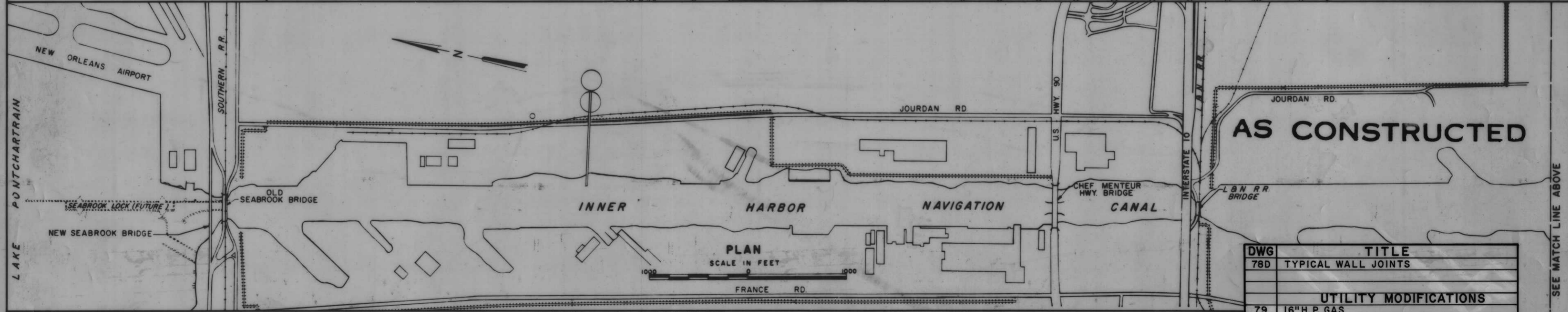
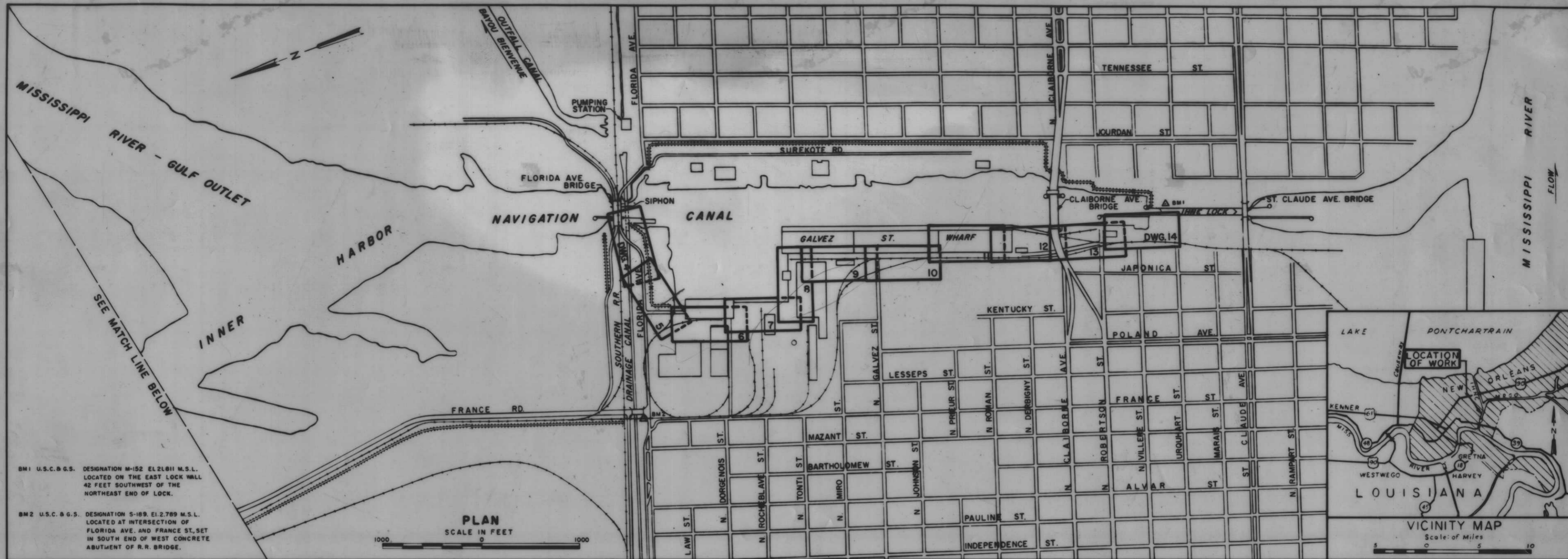
SWING GATES

76 **SWING GATES – GATES 3, 11 & 13**
File: [H-4-24263-76](#)
77 **SWING GATES – HINGE DETAILS**
File: [H-4-24263-77](#)

ROCK STORAGE BIN

78A **PLAN AND PROFILE - Rock Storage Bin**
File: [H-4-24263-78A](#)
78B **TYPICAL SECTIONS - Rock Storage Bin**
File: [H-4-24263-78B](#)
78C **SHEET PILE AND “H” PILE LAYOUTS - Rock Storage Bin**

File: [H-4-24263-78C](#)
78D Typical Wall Joints - Rock Storage Bin
File: [H-4-24263-78D](#)
79 16" H.P. GAS
File: [H-4-24263-79](#)
80 16" H.P. GAS AND TELEPHONE
File: [H-4-24263-80](#)



INDEX TO DRAWINGS			
DWG.	TITLE	DWG.	TITLE
1	GENERAL MAP, VICINITY MAP AND INDEX	36	MODIFICATIONS TO J & L STEEL AND LONE STAR CEMENT CO. STRUCTURES
2	PHOTO PLAN	37	MONOLITH 15 - GATE 1
3	LOG OF BORINGS	38	MONOLITH 15 - GATE 1
4	PLAN AND PROFILE	39	MONOLITHS 36 & 37 - GATE 2 AND 3
5	PLAN AND PROFILE	40	MONOLITHS 36 & 37 - GATE 2 AND 3
6	PLAN AND PROFILE	41	MONOLITHS 36 & 37 - GATE 2 AND 3
7	PLAN AND PROFILE	42	MONOLITH 49 - GATE 4
8	PLAN AND PROFILE	43	MONOLITH 49 - GATE 4
9	PLAN AND PROFILE	44	MONOLITH 55 - GATE 5
10	PLAN AND PROFILE	45	MONOLITH 64 - GATE 6
11	PLAN AND PROFILE	46	MONOLITH 68 - GATE 7
12	PLAN AND PROFILE	47	MONOLITH 73 - GATE 8
13	PLAN AND PROFILE	48	MONOLITH 73 - GATE 8
14	PLAN AND PROFILE	49	MONOLITH 99 - GATE 10
15	TYPICAL SECTIONS	50	MONOLITH 99 - GATE 10
16	TYPICAL SECTIONS	51	MONOLITHS 124 & 125 - GATE II AND 12
17	TYPICAL SECTIONS	52	MONOLITHS 124 & 125 - GATE II AND 12
18	TYPICAL WALL SECTIONS	53	MONOLITHS 124 & 125 - GATE II AND 12
19	TYPICAL WALL JOINTS	54	MONOLITH 138 - GATE 13
20	CORROSION PROTECTION AND	55	MONOLITH 145 - GATE 14
		56	MONOLITH 145 - GATE 14
		57*	MONOLITH 158 - GATE 15
		58	MONOLITH 158 - GATE 15
		59	OVERHEAD ROLLER GATE LATCHING DEVICE
		60	SWING GATE LATCHING DEVICE & LADDERS
		61	GATE GUIDE - GATES 1, 2, 4, 5, 6, 7, 8, 12, 14 & 15
		62	GATE GUIDE - GATE 10
		57A	MONOLITH 158 - GATE 15
		63	MONOLITHS 74 - 77 - HINGED FLAPS 1, 2, 3 & 4
		64	MONOLITHS 74 - 77 - HINGED FLAPS 1, 2, 3 & 4
		65	MONOLITH 78 - GATE 9
		66	MONOLITH 78 - GATE 9
		67	HINGED FLAPS AND GATE 9 JIB CRANES
		68	OVERHEAD ROLLER GATES - GATES 1, 14 & 15
		69	OVERHEAD ROLLER GATES - GATES 2, 4, 5 & 6
		70	OVERHEAD ROLLER GATE - GATE 7
		71	OVERHEAD ROLLER GATE - GATE 8
		72	OVERHEAD ROLLER GATE - GATE 10
		73	OVERHEAD ROLLER GATE - GATE 12
		74	OVERHEAD ROLLER GATES - TROLLEY AND HANGER DETAILS
		75	OVERHEAD ROLLER GATES - SEALS
		76	SWING GATES - GATES 3, 11 & 13
		77	SWING GATES - HINGE DETAILS
		78	SWING GATES - SEALS
		78A	PLAN AND PROFILE
		78B	TYPICAL SECTIONS
		78C	SHEET PILE AND "H" PILE LAYOUTS

DWG	TITLE
78D	TYPICAL WALL JOINTS
79	16" H.P. GAS
80	16" H.P. GAS AND TELEPHONE

REV.	DATE	DESCRIPTION	BY
1	1-2-72	ADDED DWG. 57A	L.S.
2	10-1-68	ADDED PAGES 79 C80	B

DRAWN BY	TRACED BY	CHECKED BY	U. S. ARMY ENGINEER DISTRICT, NEW ORLEANS CORPS OF ENGINEERS NEW ORLEANS, LA.
SUBMITTED			LAKE PONTCHARTRAIN, LOUISIANA AND VICINITY LAKE PONTCHARTRAIN BARRIER PLAN INNER HARBOR NAVIGATION CANAL WEST LEVEE - FLORIDA AVE. TO IHNC LOCK FLOODWALL
DATE			
APPROVED			
SCALE AS SHOWN			FILE NO H-4-24263
SPEC NO			DWG NO 1 OF 78



SCALE 1"=2,000 APPROX.
 100 0 100 200 300 400 500 FT.

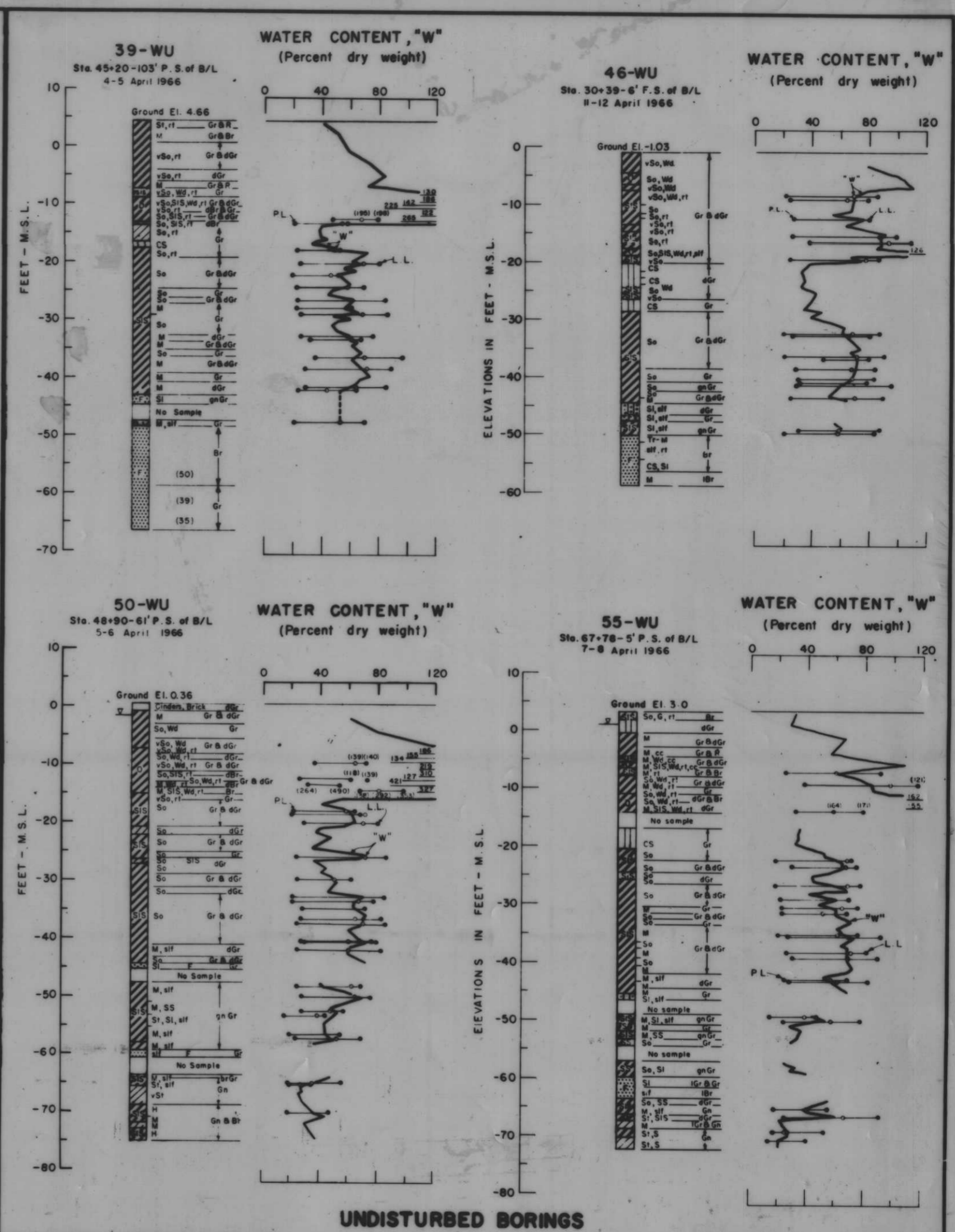
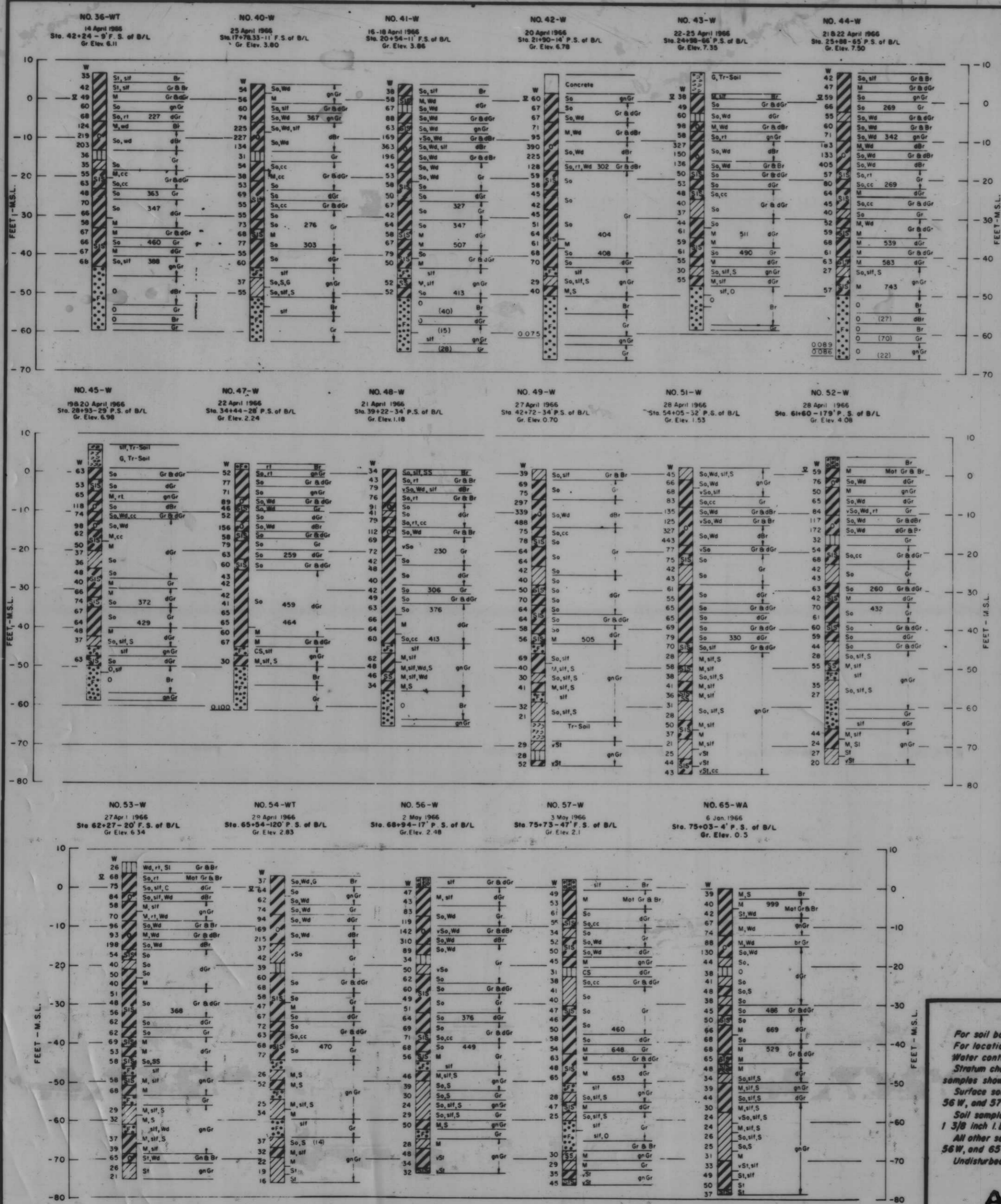
NOTE:
 Photos flown 24 October 1965

AS CONSTRUCTED

PHOTO PLAN

1 9-30-63 Changed location of gate 1		G.P.M.	
DESIGNED	DATE	DESCRIPTION	BY
DRAWN	CHECKED	CODE IDENT NO. - SIZE	FILE NO.
D.J.H.	J.S.H.		
DATE		SCALE SHOWN	SPEC. NO. DRAWING
			DWG. NO. 2 OF 78

H-4-24263



NOTES

For soil boring legend see Dwg. File No. H-2-21800.

For location of borings see Dwg. Nos. 5 thru 14.

Water contents shown are based on weight of oven dry soils.

Stratum changes are assumed to occur at an elevation halfway between elevations of samples shown, unless otherwise indicated.

Surface soil samples for borings Nos. 36 WT, 40W, 43W, 45W, 47W, 49W, 51W, 54WT, 56W, and 57W were taken with a 4 inch dia. post hole auger.

Soil samples in sand stratum boring Nos. 41W, 42W, and 44W were taken with a 1 3/8 inch I.D., 2 inch O.D. split spoon sampler using a 140 lb. hammer and a 30 inch drop.

All other samples for borings Nos. 36 WT, 40W, 45W, 47W, 48W, 49W, 51W, 54WT, 56W, and 65WA were taken with a 1 7/8 inch core barrel sampler.

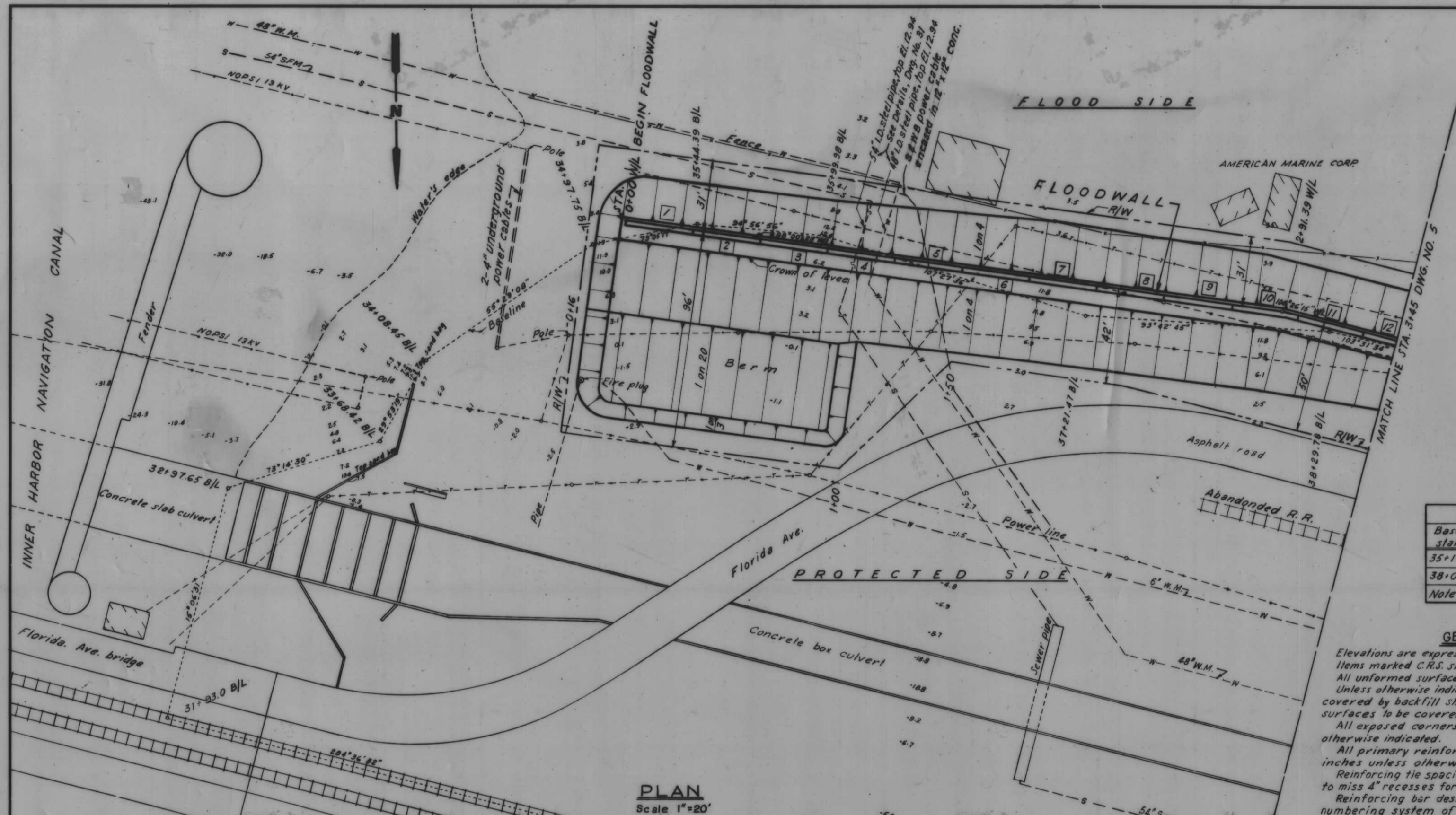
Undisturbed borings were taken with a 5 inch I.D. steel tube piston-type sampler.

AS CONSTRUCTED

LOG OF BORINGS

REVISION	DATE	CHECKED	DESCRIPTION
K.J.C.	D.J.H.	W.H.S.	H-4-24263

DATE: SCALE SHOWN: SPEC. NO. DAWNS: SHEET NO. 3 OF 78



PLAN
Scale 1"=20'

WALL LINE LAYOUT DATA			
Baseline station	Azimuth B/L to W/L	Distance B/L to W/L	Wall line P.I. station
35+14.07	349° 05' 17"	7.45'	0+100
38+07.24	3° 42' 45"	7.80'	2+91.39

Note: Wall line is flood side face of wall.

GENERAL NOTES

Elevations are expressed in feet and refer to mean sea level. Items marked C.R.S. shall be corrosion-resisting steel. All unformed surfaces shall be given a wood float finish. Unless otherwise indicated, all exterior formed surfaces not to be covered by backfill shall be class "A" finish. All exterior formed surfaces to be covered by backfill shall be class "D" finish. All exposed corners of concrete shall be chamfered 3/8 inch unless otherwise indicated. All primary reinforcement shall have a minimum cover of 2 1/2 inches unless otherwise indicated. Reinforcing tie spacing in columns shall be reduced where necessary to miss 4" recesses for gate latches. Reinforcing bar designation numbers conform to the current numbering system of the Concrete Reinforcing Steel Institute. All reinforcement splices shall be lapped according to the following tables:

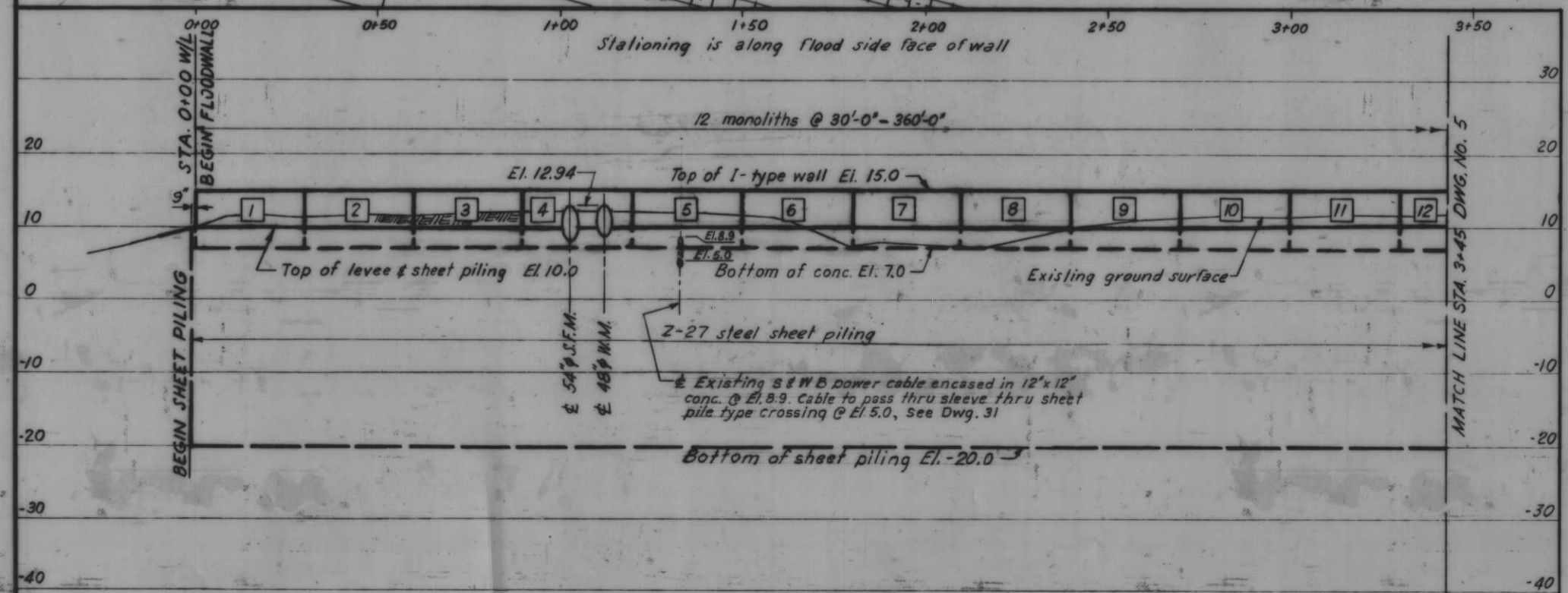
TENSION LAP SPLICE			COMPRESSION LAP SPLICE	
Bar size No.	Minimum lap length, in.	Other bars	Bar size No.	Lap length, bar dias.
3	12	12	5-11	20 D
4	14	14		
5	18	18		
6	24	22		
7	33	25		
8	43	30		
9	55	39		
10	69	49		
11	85	60		

Figures in squares **11** indicate monolith numbers. Figures in hexagon **12** indicate item number under which payment will be made. For ladder details, see Dwg. No. 60.

LEGEND

- w- Water line
- p- Power line
- s- Sewer line
- t- Telephone line
- g- Gas line

Note: All utility poles shall be removed from levee by others.



PROFILE
Scale: Hor. 1"=20', Vert. 1"=10'

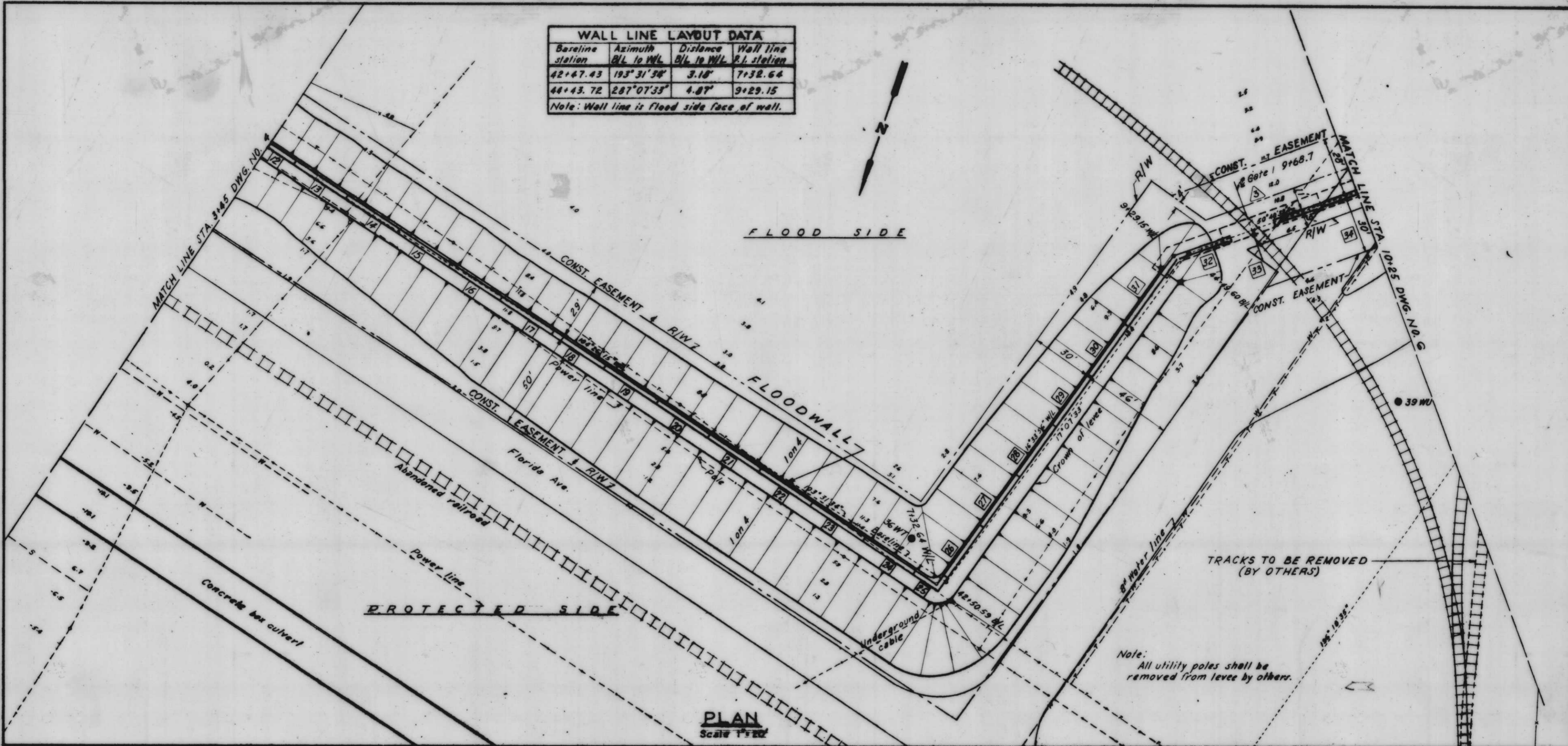
AS CONSTRUCTED

PLAN AND PROFILE

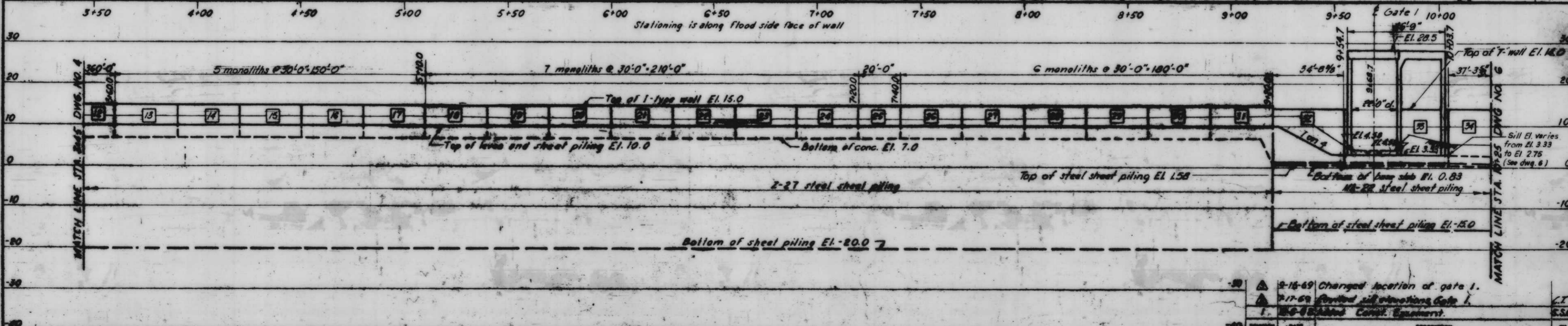
REVISION	DATE	DESCRIPTION	BY
DESIGNED: J.S.H.	DRAWN: E.J.C.	CHECKED: H.U.	FILE NO. H-4-24263
DATE:	SCALE: SHOWN	SPEC. NO. DAWES:	DWG. NO. 4 OF 78

WALL LINE LAYOUT DATA			
Baseline station	Azimuth B/L to W/L	Distance B/L to W/L	Wall line P.I. station
42+47.43	193°31'38"	3.10'	7+32.64
44+43.72	287°07'33"	4.87'	9+29.15

Note: Wall line is flood side face of wall.



PLAN
Scale 1"=20'



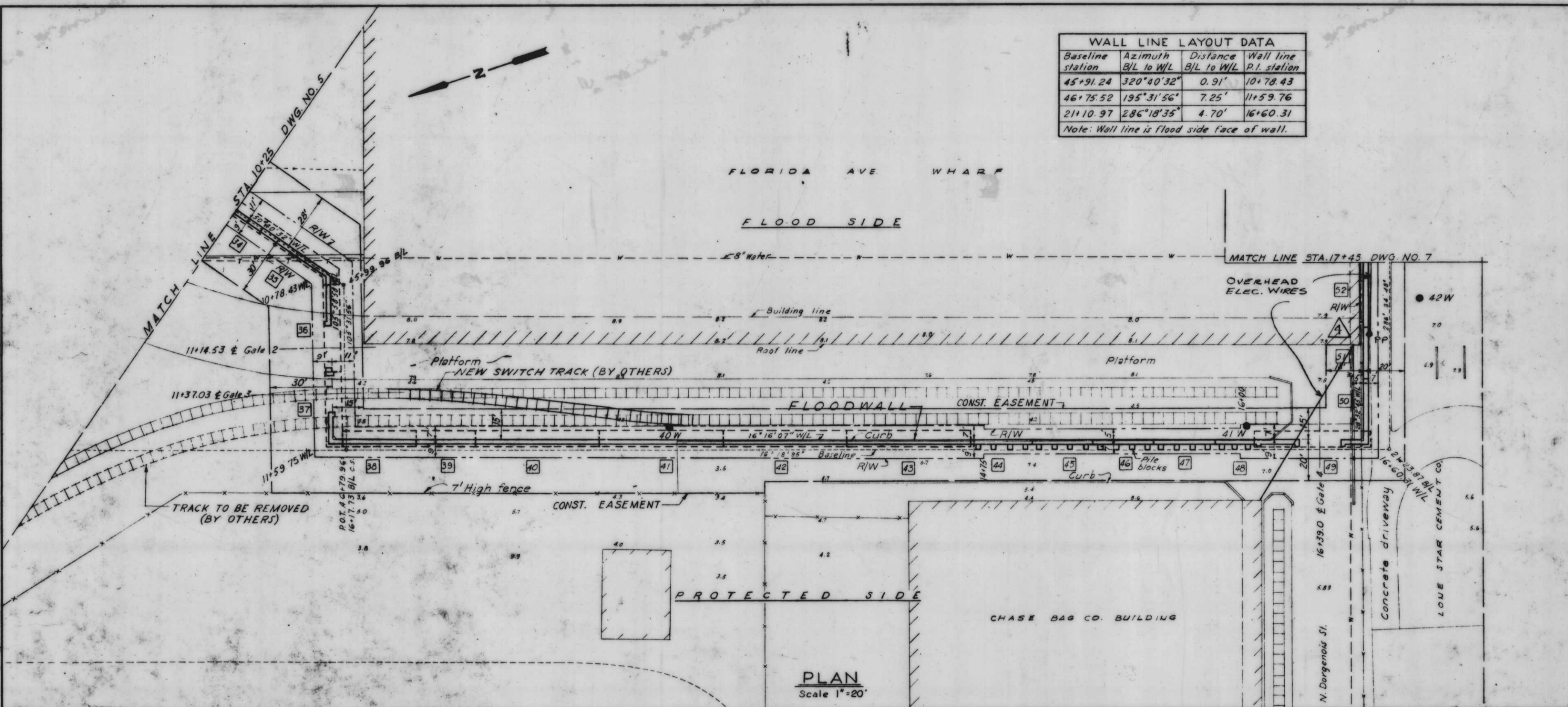
PROFILE
Scale 1"=10'

PLAN AND PROFILE

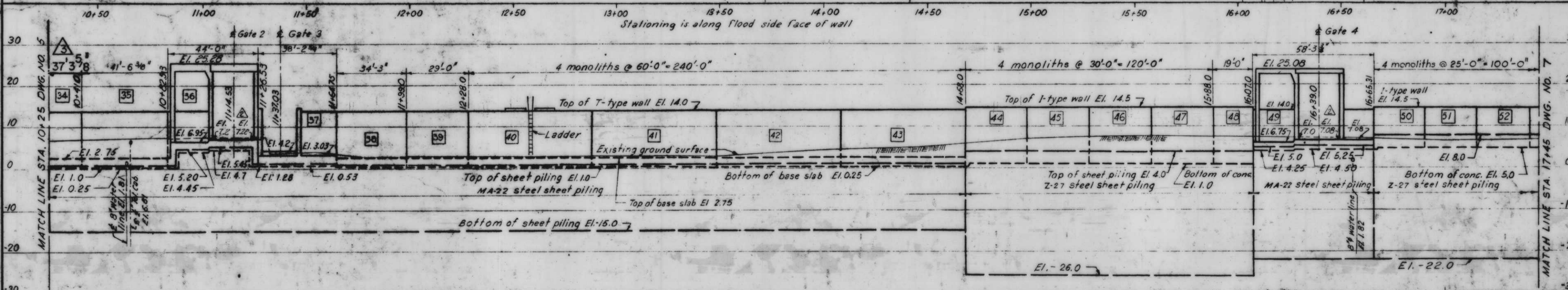
2-15-69	Changed location of gate 1.	CT
2-17-69	Revised sill elevations Gate 1.	ES6
1-	Added Const. Easement	
REVISION	DATE	DESCRIPTION
J.S.H.	D.J.H.	H.U.
H-4-24263		

WALL LINE LAYOUT DATA			
Baseline station	Azimuth B/L to W/L	Distance B/L to W/L	Wall line P.I. station
45+91.24	320°40'32"	0.91'	10+78.43
46+75.52	195°31'56"	7.25'	11+59.76
21+10.97	286°18'35"	4.70'	16+60.31

Note: Wall line is flood side face of wall.



PLAN
Scale 1"=20'



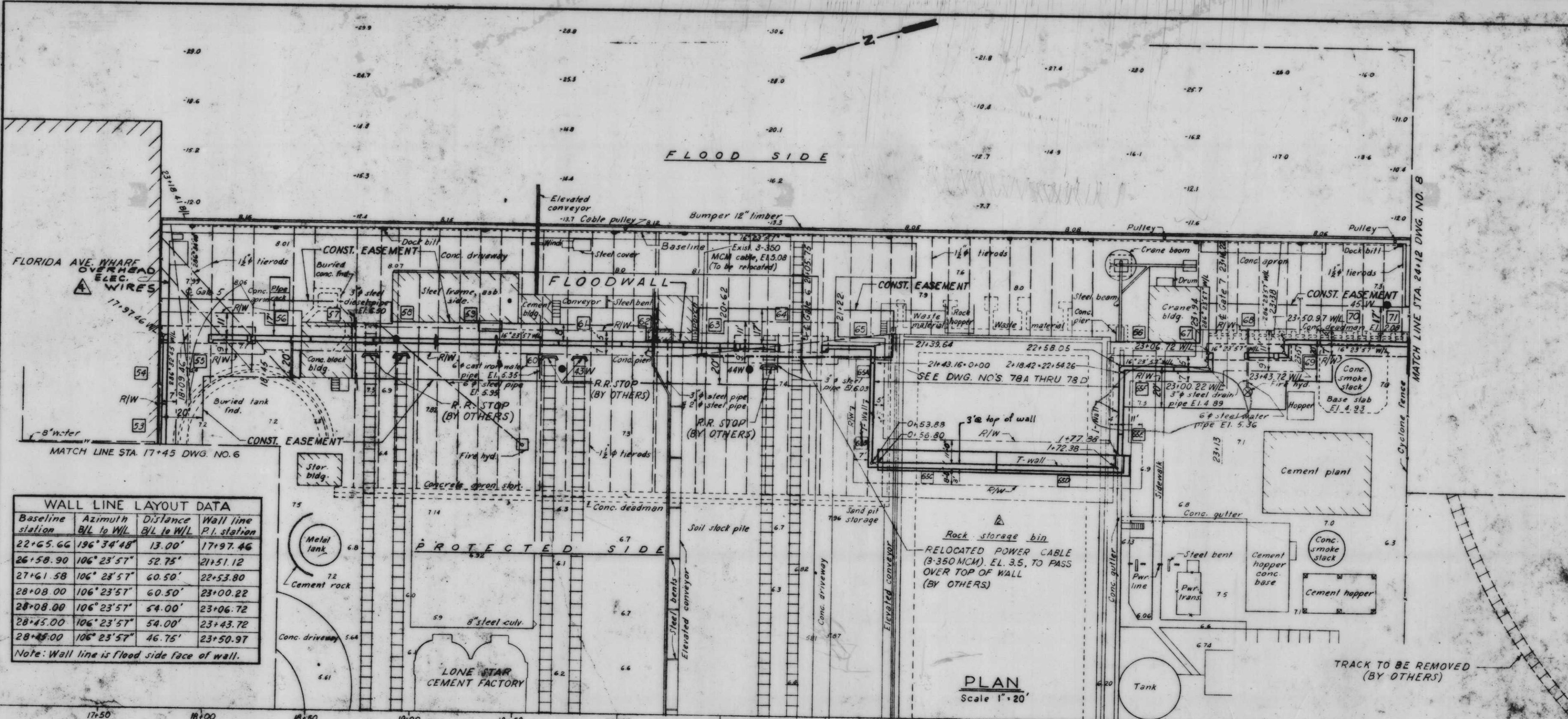
PROFILE
Scale: Hor. 1"=20'
Vert. 1"=10'

- 9-10-69 Added Elec. Lines & Power Pole LGB
- 8-9-69 REVISED DIMENSION MONO 34 LGB
- 7-16-69 Revised sill elevations Gate 2 CT
- 12-6-68 Added Const. Easement. S.S.G.

REVISION	DATE	DESCRIPTION
J.S.H.	E.J.C.	H.U.

H-4-24263

PLAN AND PROFILE

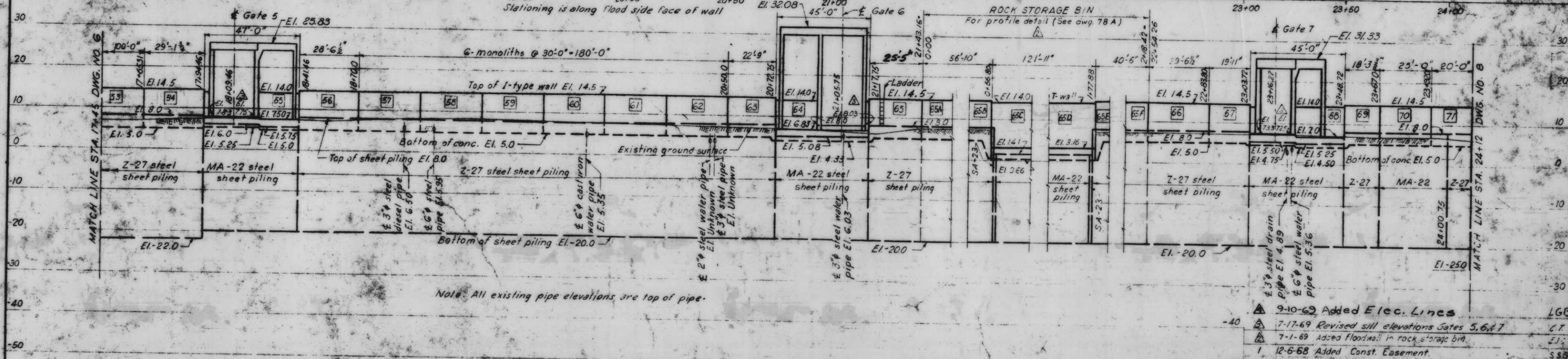


WALL LINE LAYOUT DATA

Baseline station	Azimuth	Distance B/L to W/L	Wall line P.I. station
22+65.66	196° 34' 48"	13.00'	17+97.46
26+58.90	106° 23' 57"	52.75'	21+51.12
27+61.58	106° 23' 57"	60.50'	22+53.80
28+08.00	106° 23' 57"	60.50'	23+00.22
28+08.00	106° 23' 57"	54.00'	23+06.72
28+45.00	106° 23' 57"	54.00'	23+43.72
28+85.00	106° 23' 57"	46.75'	23+50.97

Note: Wall line is flood side face of wall.

PLAN
Scale 1" = 20'

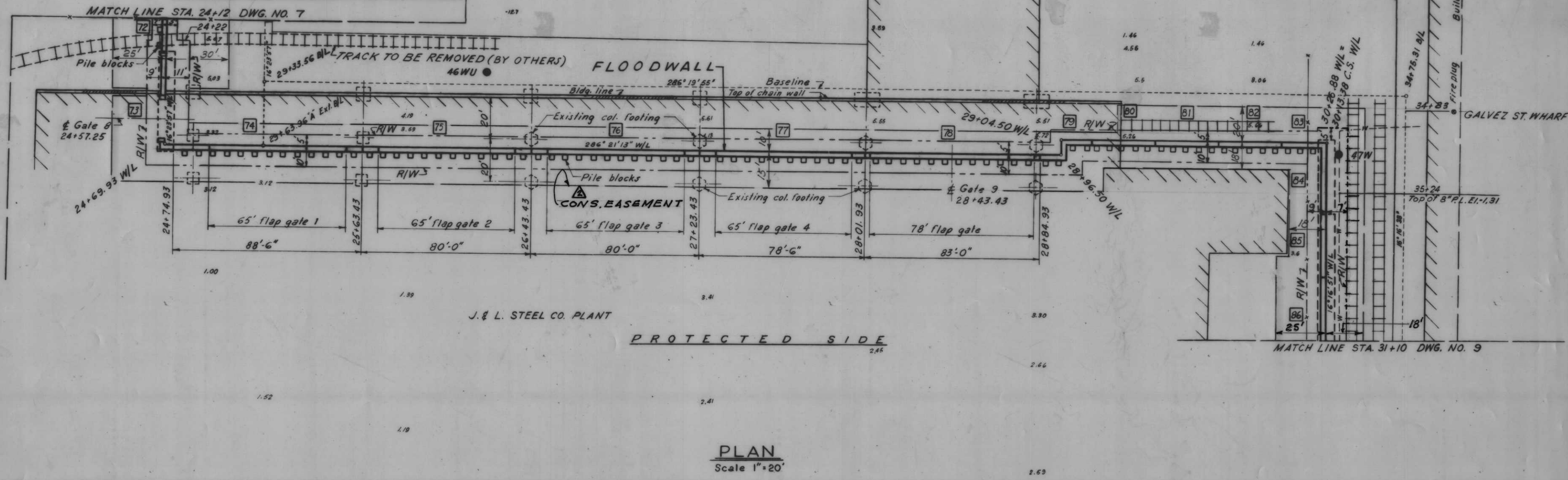


PROFILE
Scale: Hor. 1" = 20'
Vert. 1" = 10'

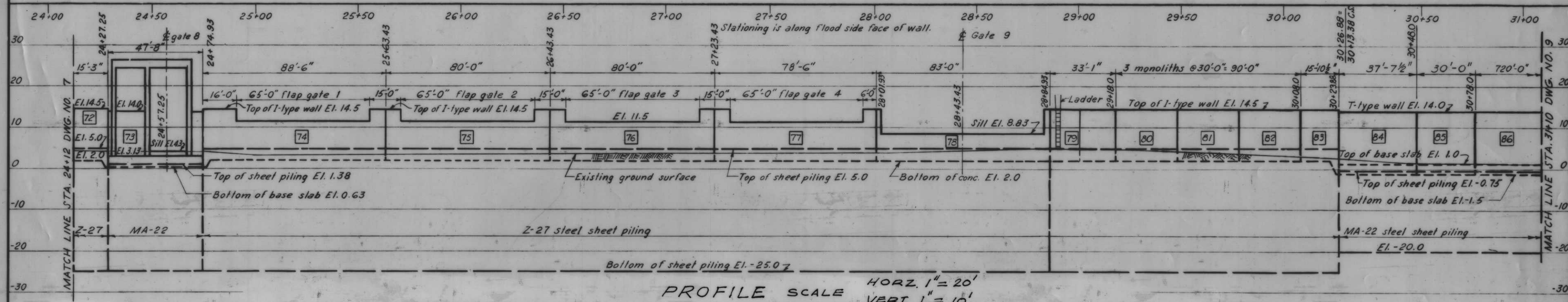
- 9-10-69 Added Elec. Lines LGB
- 7-17-69 Revised sill elevations Gates 5, 6, & 7 C.T.
- 7-1-69 Added floodwall in rock storage bin. E.J.
- 12-6-68 Added Const. Easement. S.S.B.

WALL LINE LAYOUT DATA			
Baseline station	Azimuth B/L to W/L	Distance B/L to W/L	Wall line P.I. station
29+63.96A	106°23'57"	46.75'	24+69.93
33+13.34	16°19'55"	30.55'	28+96.50
33+13.34	16°19'55"	22.55'	29+04.50
34+35.72	16°19'55"	22.55'	30+26.88=30+13.38 C.S.
34+97.83	106°16'38"	39.62'	30+26.88=30+13.38 C.S.

Note: Wall line is flood side face of wall



PLAN
Scale 1"=20'



PROFILE SCALE
HORZ. 1"=20'
VERT. 1"=10'

1 Elevations are expressed in feet and refer to mean sea level items marked C.R.S. shall be corrosion-resisting steel. All unformed surfaces shall be given a wood float finish unless otherwise indicated all exterior formed surfaces not to be covered by backfill shall be class "A" finish. All exterior formed surfaces to be covered by backfill shall be class "D" finish. All exposed corners of concrete shall be chamfered 1/4 inch unless otherwise indicated. All primary reinforcement shall have a minimum cover of 2 1/2 inches unless otherwise indicated. Reinforcing tie spacing in columns shall be reduced where necessary to miss 4" recesses for gate latches. Reinforcing bar designation numbers conform to the current numbering system of the Concrete Reinforcing Steel Institute. All reinforcement splices shall be lapped according to the adjoining tables.

BAR SIZE N°	Minimum lap length, in.	
	Other bars	
3	12	
4	14	
5	18	
6	22	
7	25	
8	30	
9	39	
10	49	
11	60	

Figures in squares [1] indicate monolith numbers. Disregard figures in hexagons [2] per item numbers were changed. For ladder details, see Dwg. No. 60.

AS CONSTRUCTED

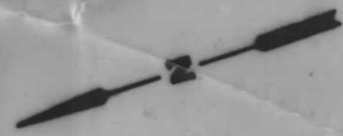
- 3 12.1.68 REVISED TABLE
- 2 11-27-68 Added const. easement addendum No. 2
- 1 10.1.68 ADDED GEN. NOTES & LAP & SPICE SCHEDULES

DESIGNED	DRAWN	CHECKED	CODE IDENT. NO.	SIZE	FILE NO.	BY
J.S.H.	D.J.H.	H.U.				

H-4-24263

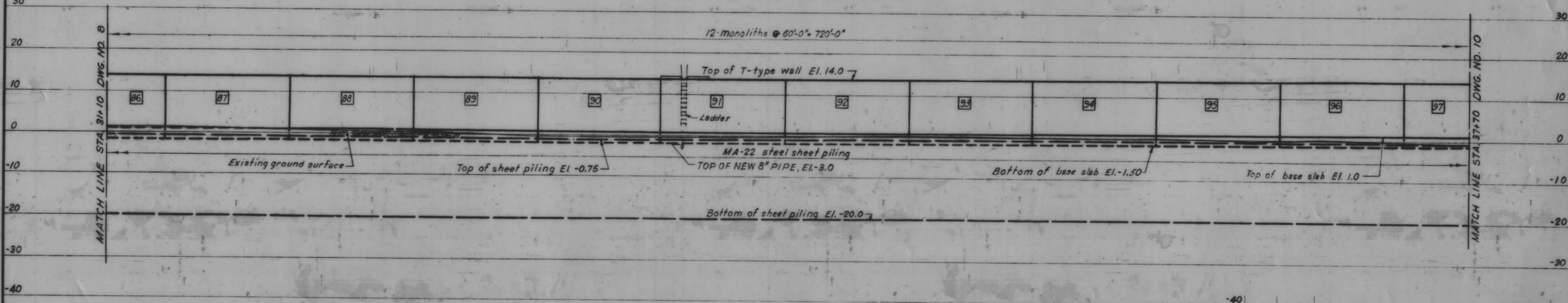
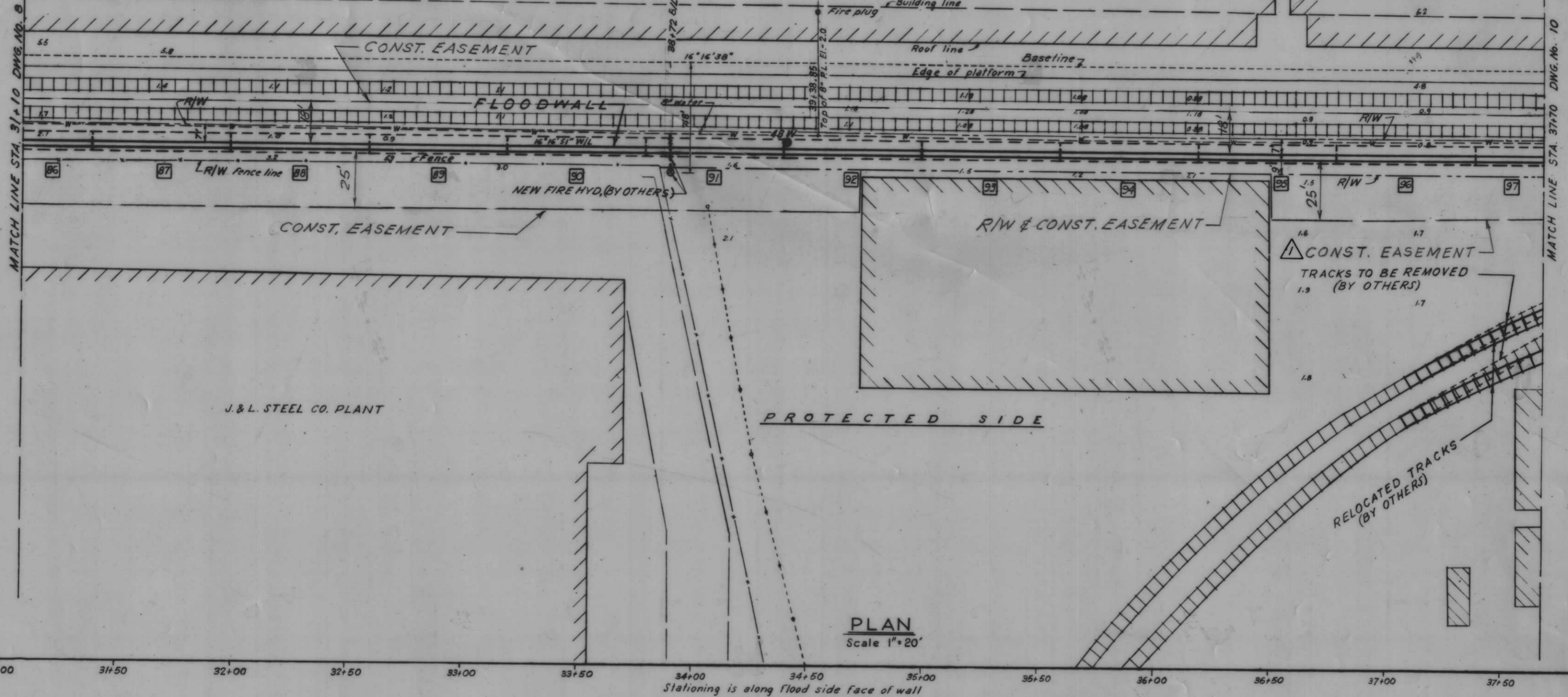
DATE: SCALE: SHOWN SPEC. NO. DACTW-8 DWG. NO. 8 OF 78

PLAN AND PROFILE



GALVEZ ST. WHARF

FLOOD SIDE



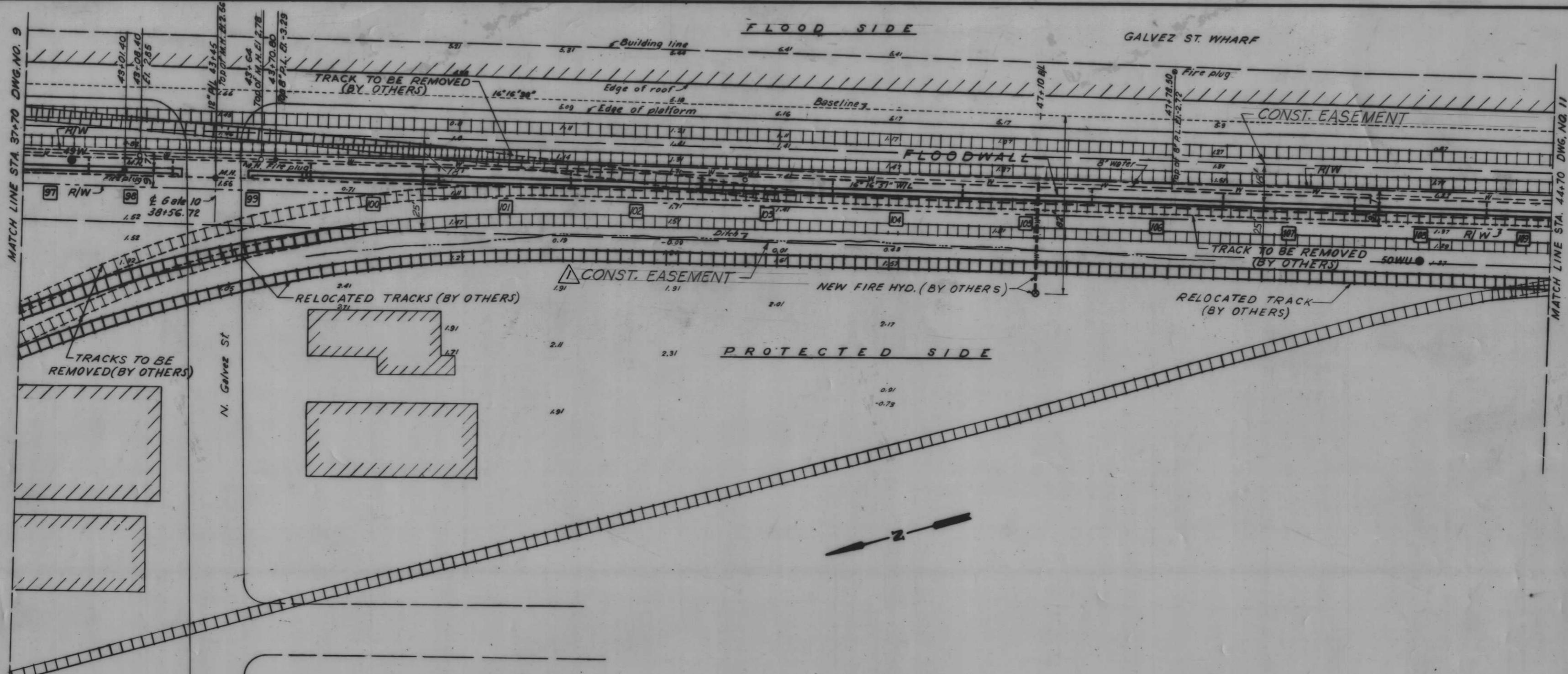
AS CONSTRUCTED

11-27-68, Added const. easement addendum No. 2 E.J.C.

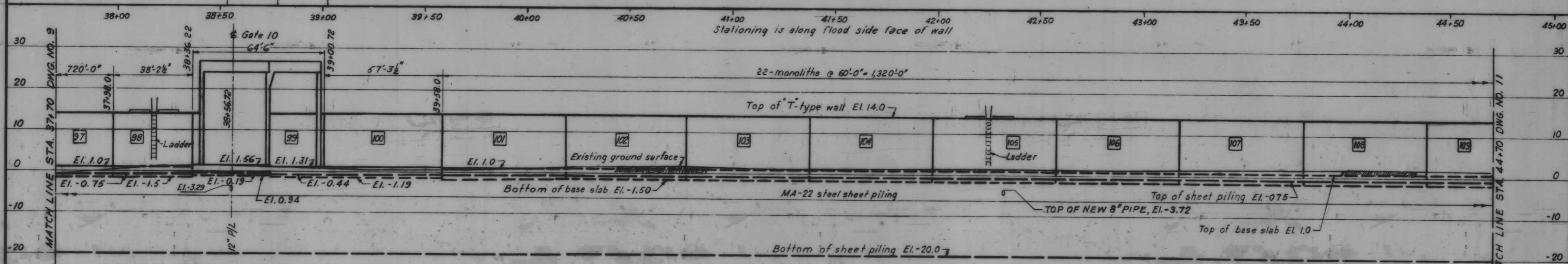
REVISION	DATE	DESCRIPTION
1	11-27-68	Added const. easement addendum No. 2 E.J.C.

DESIGNED: J.S.H. DRAWN: D.J.H. CHECKED: H.U. CODE IDENT. NO. SIZE FILE NO. H-4-24263

PLAN AND PROFILE



PLAN
Scale 1"=20'



AS CONSTRUCTED

PROFILE
Scale: Hor. 1"=20'
Ver. 1"=10'

PLAN AND PROFILE

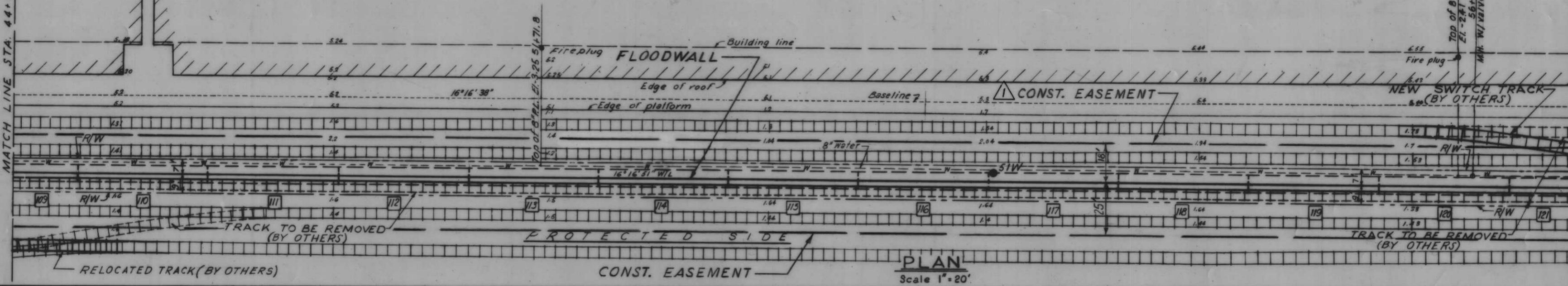
		11-28-68 ADDED CONST. EASEMENT ADDENDUM NO. 2		J.E.B.	
DESIGNED	DATE	CHECKED	CODE IDENT. NO.	SIZE	FILE NO.
J.S.H.		D.J.H.	H.U.		H-4-24263
DATE	SCALE SHOWN	SPEC. NO.	DATE	DWG. NO.	10 OF 78

MATCH LINE STA. 44+70 DWG. NO. 10

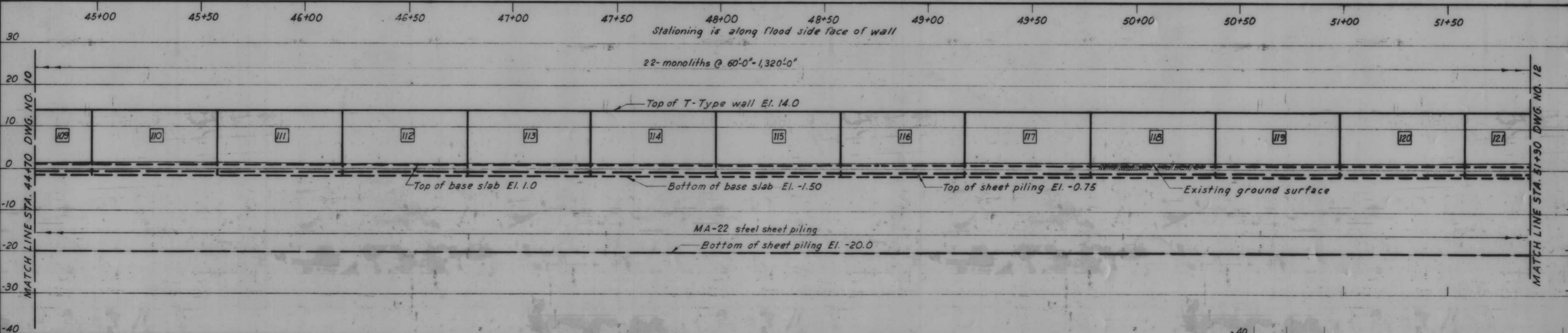
MATCH LINE STA. 51+90 DWG. NO. 12

GALVEZ ST. WHARF

FLOOD SIDE



PLAN
Scale 1"=20'



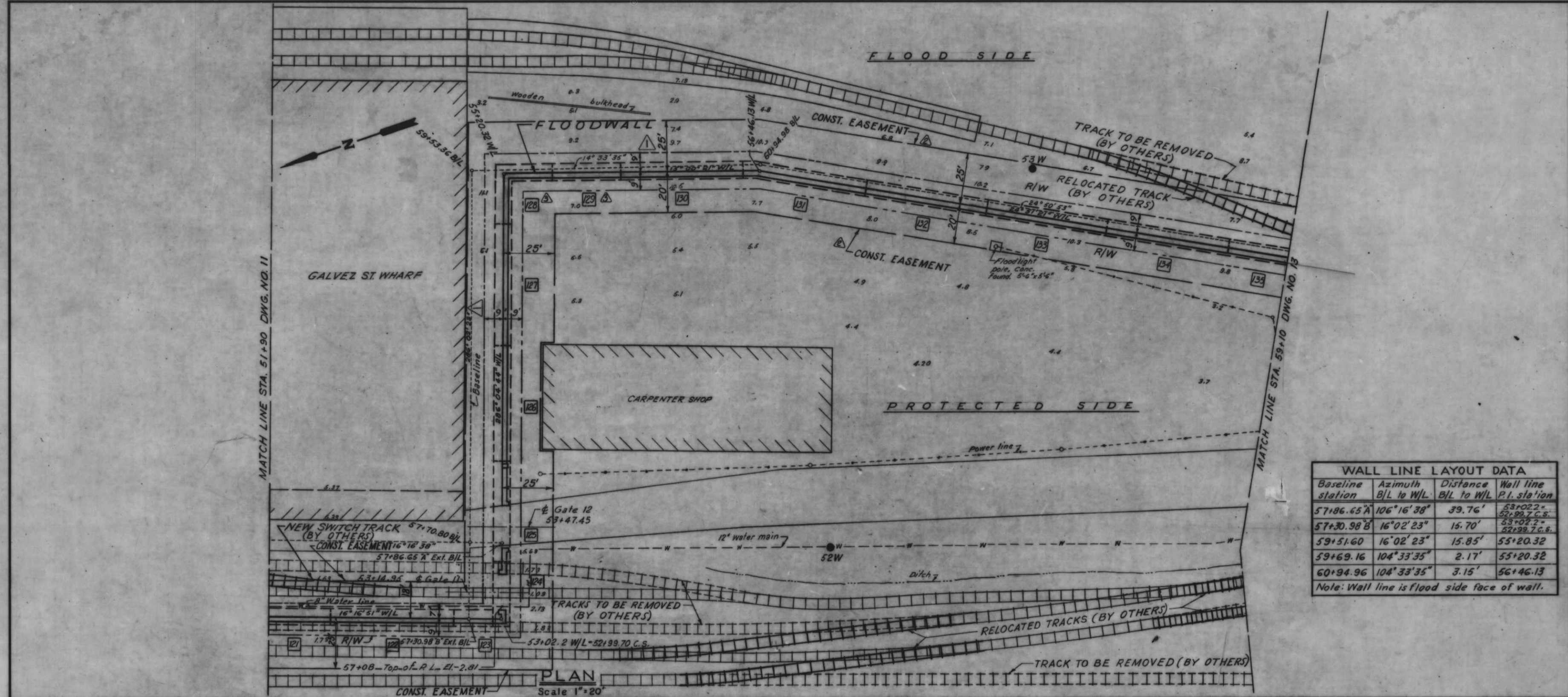
AS CONSTRUCTED

PROFILE
Scale: Hor. 1"=20'
Vert. 1"=10'

PLAN AND PROFILE

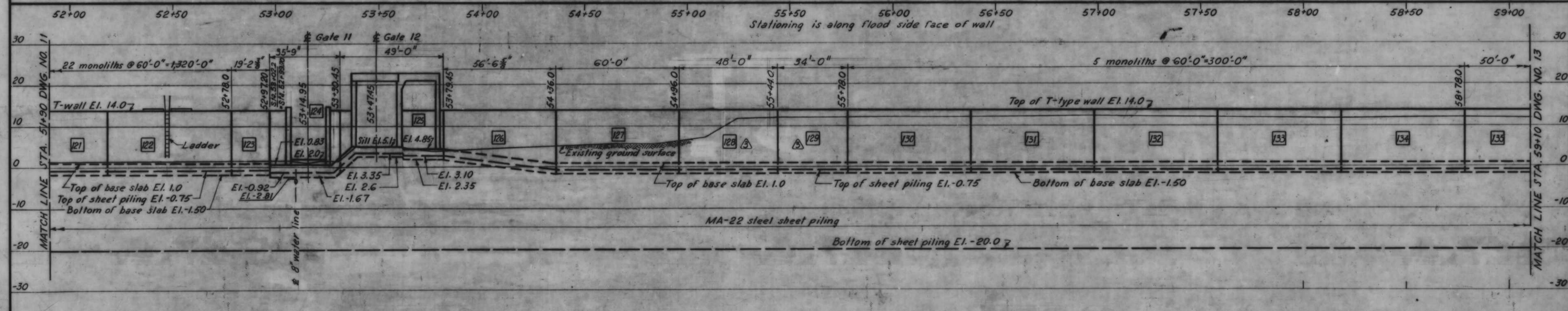
REVISION	DATE	DESCRIPTION	BY
1	11-27-68	ADDED CONST. EASEMENT. ADDENDUM No. 2. SSG	
DESIGNED	DRAWN	CHECKED	CODE IDENT. NO.
J.H.S.	E.J.C.	H.U.	
SCALE SHOWN			SPEC. NO. DACW28
DATE			DWG. NO. 11 OF 78

H-4-24263



WALL LINE LAYOUT DATA			
Baseline station	Azimuth	Distance B/L to W/L	Wall line P.I. station
57+86.65 A	106°16'38"	39.76'	53+02.2 = 52+99.7 C.S.
57+30.98 B	16°02'23"	15.70'	53+02.2 = 52+99.7 C.S.
59+51.60	16°02'23"	15.85'	55+20.32
59+69.16	104°33'35"	2.17'	55+20.32
60+94.96	104°33'35"	3.15'	56+46.13

Note: Wall line is flood side face of wall.



AS CONSTRUCTED

PROFILE
 Scale: Hor. 1" = 20'
 Ver. 1" = 10'

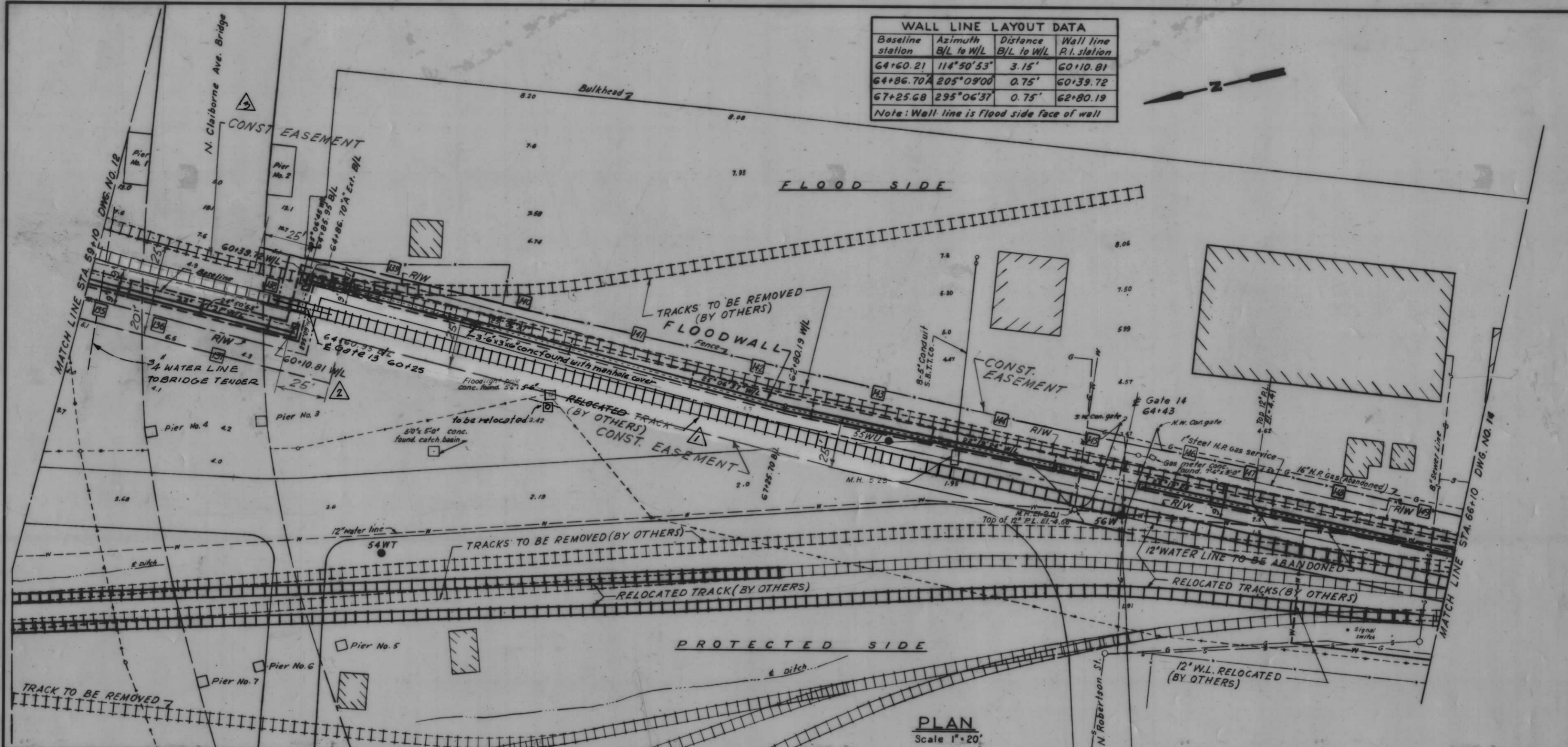
PLAN AND PROFILE

REVISION	DATE	DESCRIPTION	BY
12-68		Revised monoliths 128 & 129	J.J.P.
11-27-68		Added const. easment.	S.S.G.
10-29-68		Revised R/W	A.H.

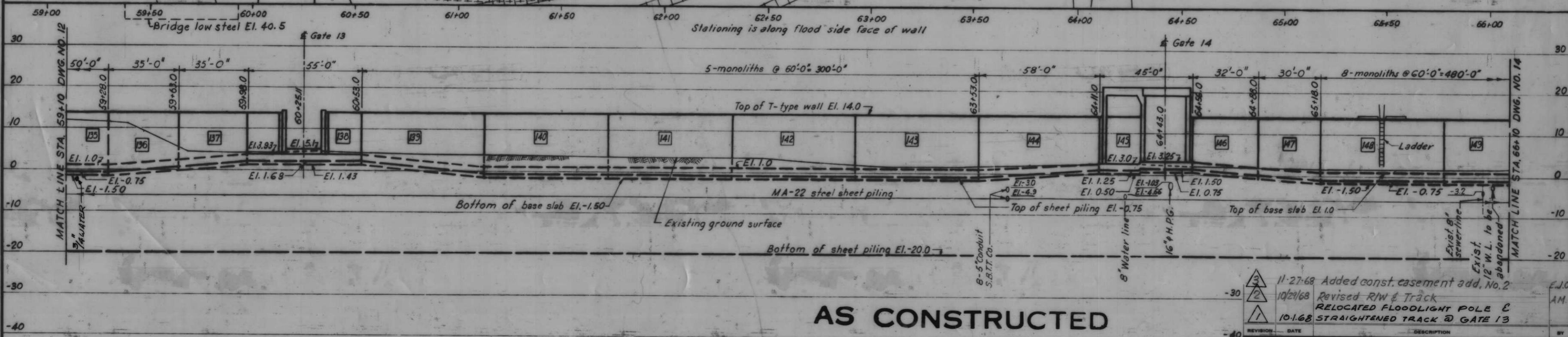
DESIGNED	DRAWN	CHECKED	CODE IDENT. NO.	SIZE	FILE NO.
J.S.H.	D.J.H.	H.U.			H-4-24263
DATE:	SCALE: SHOWN	SPEC. NO. DACTW2	DWG. NO. 12 OF 78		

WALL LINE LAYOUT DATA			
Baseline station	Azimuth B/L to W/L	Distance B/L to W/L	Wall line P.I. station
64+60.21	114°50'53"	3.15'	60+10.81
64+86.70	205°09'00"	0.75'	60+39.72
67+25.68	295°06'37"	0.75'	62+80.19

Note: Wall line is flood side face of wall



PLAN
Scale 1"=20'



PROFILE
Hor. 1"=20'
Scale: Vert. 1"=10'

AS CONSTRUCTED

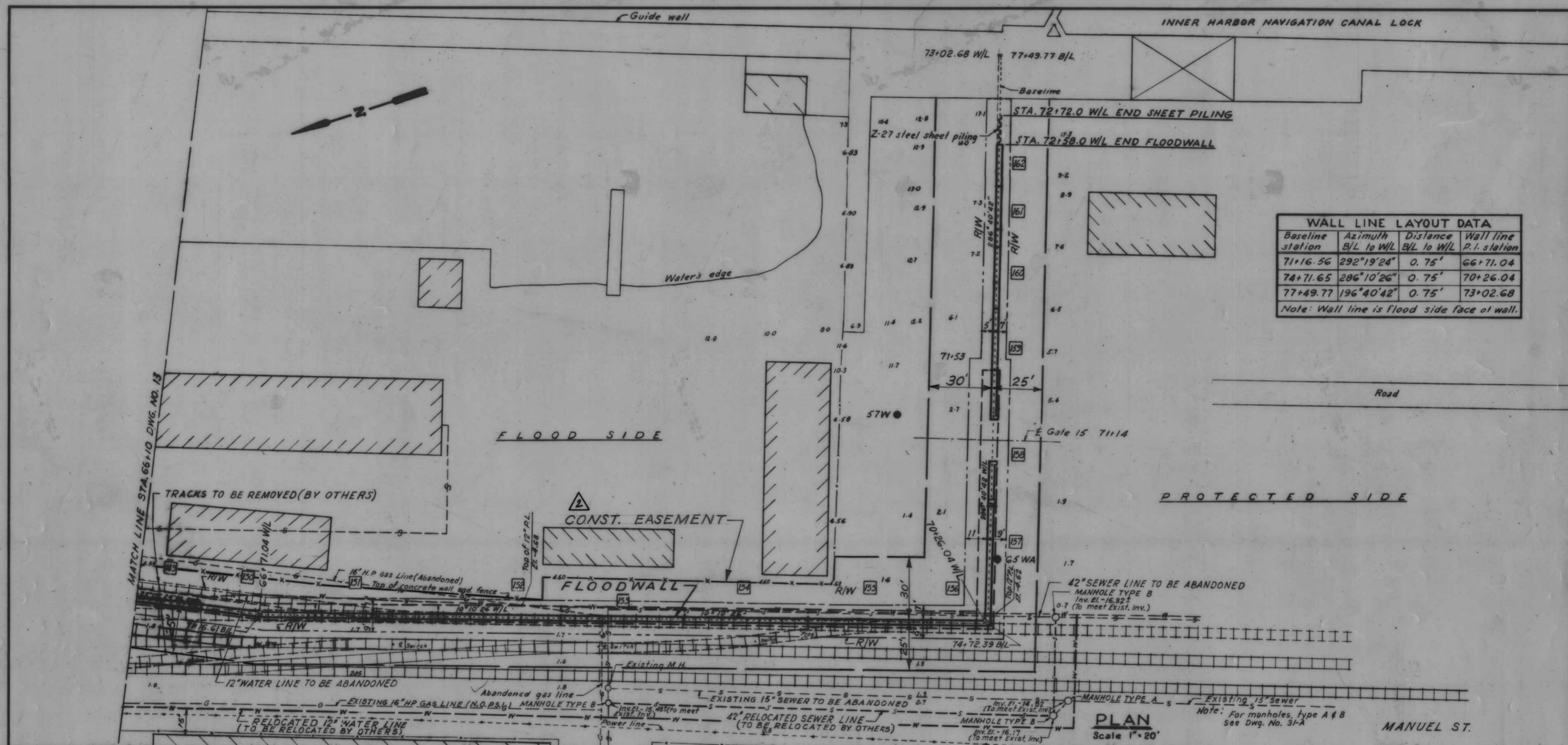
PLAN AND PROFILE

3	11-27-68	Added const. easement add. No. 2	J.C.
2	10/21/68	Revised R/W & Track	AM.
1	10-1-68	RELOCATED FLOODLIGHT POLE & STRAIGHTENED TRACK @ GATE 13	

DESIGNED	DRAWN	CHECKED	CODE IDENT. NO.	SIZE	FILE NO.
J.S.H.	E.J.C.	H.U.			

H-4-24263

DATE: _____ SCALE: SHOWN _____ SPEC. NO. DACTAB: _____ DWG. NO. 13 OF 78

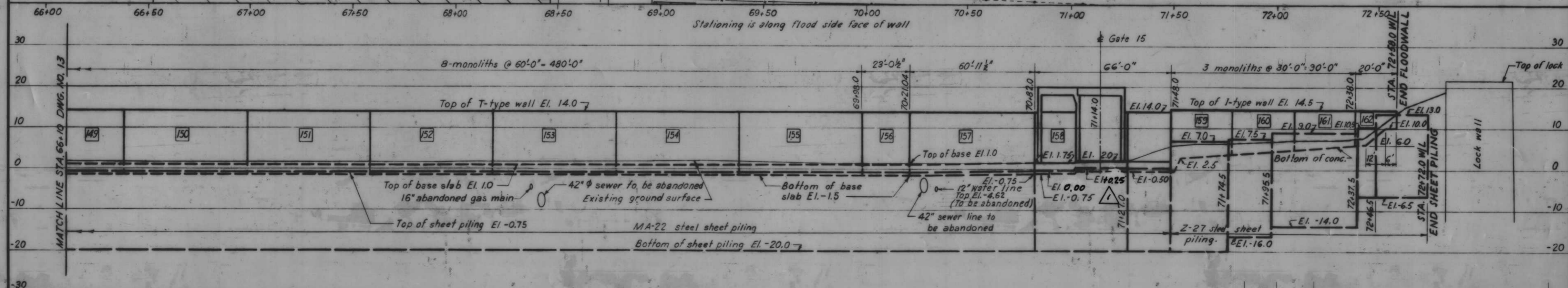


WALL LINE LAYOUT DATA

Baseline station	Azimuth B/L to W/L	Distance B/L to W/L	Wall line P.I. station
71+16.56	292°19'24"	0.75'	66+71.04
74+71.65	286°10'26"	0.75'	70+26.04
77+49.77	196°40'42"	0.75'	73+02.68

Note: Wall line is flood side face of wall.

PLAN
Scale 1" = 20'



PROFILE
Scale: Hor. 1" = 20'
Vert. 1" = 10'

AS CONSTRUCTED

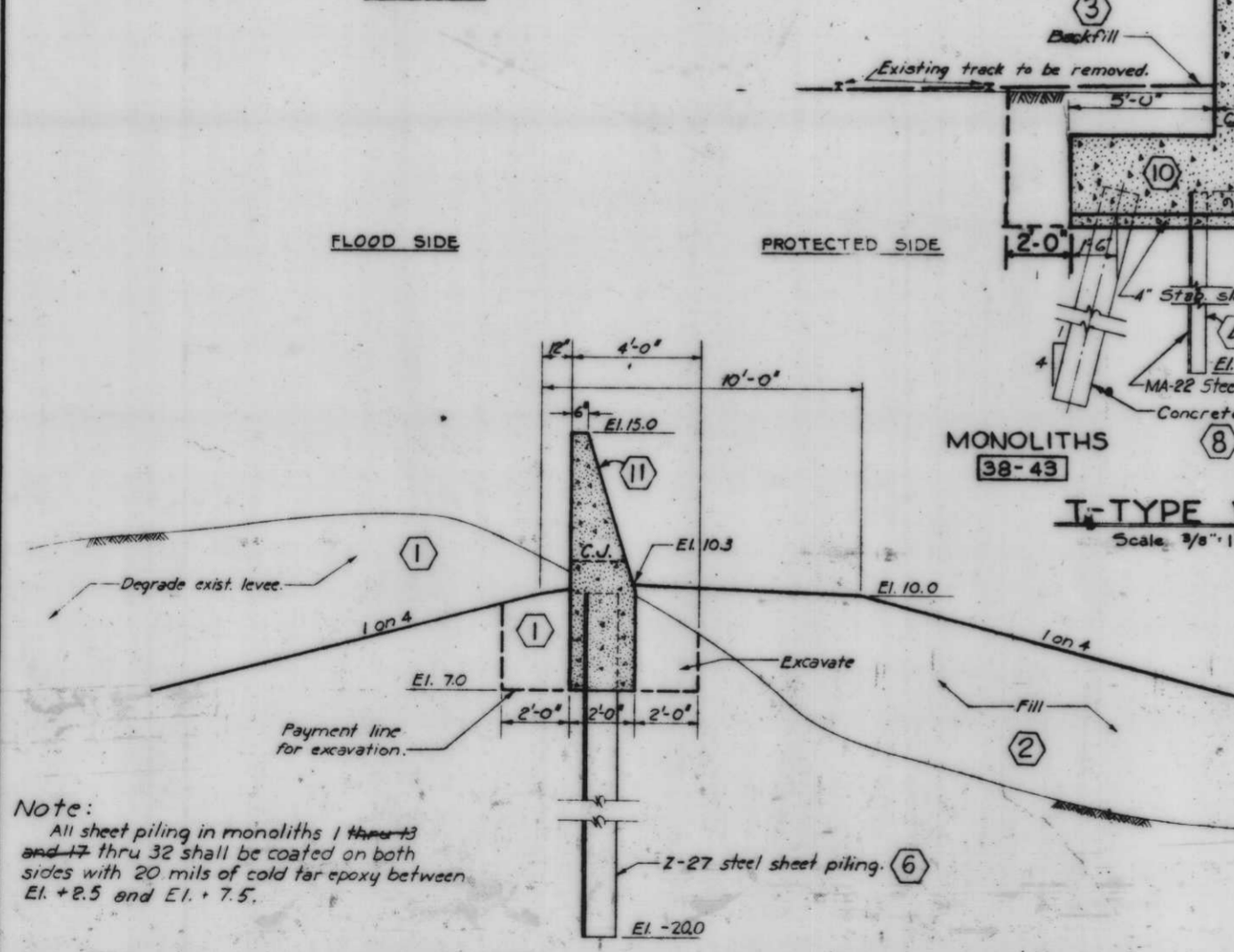
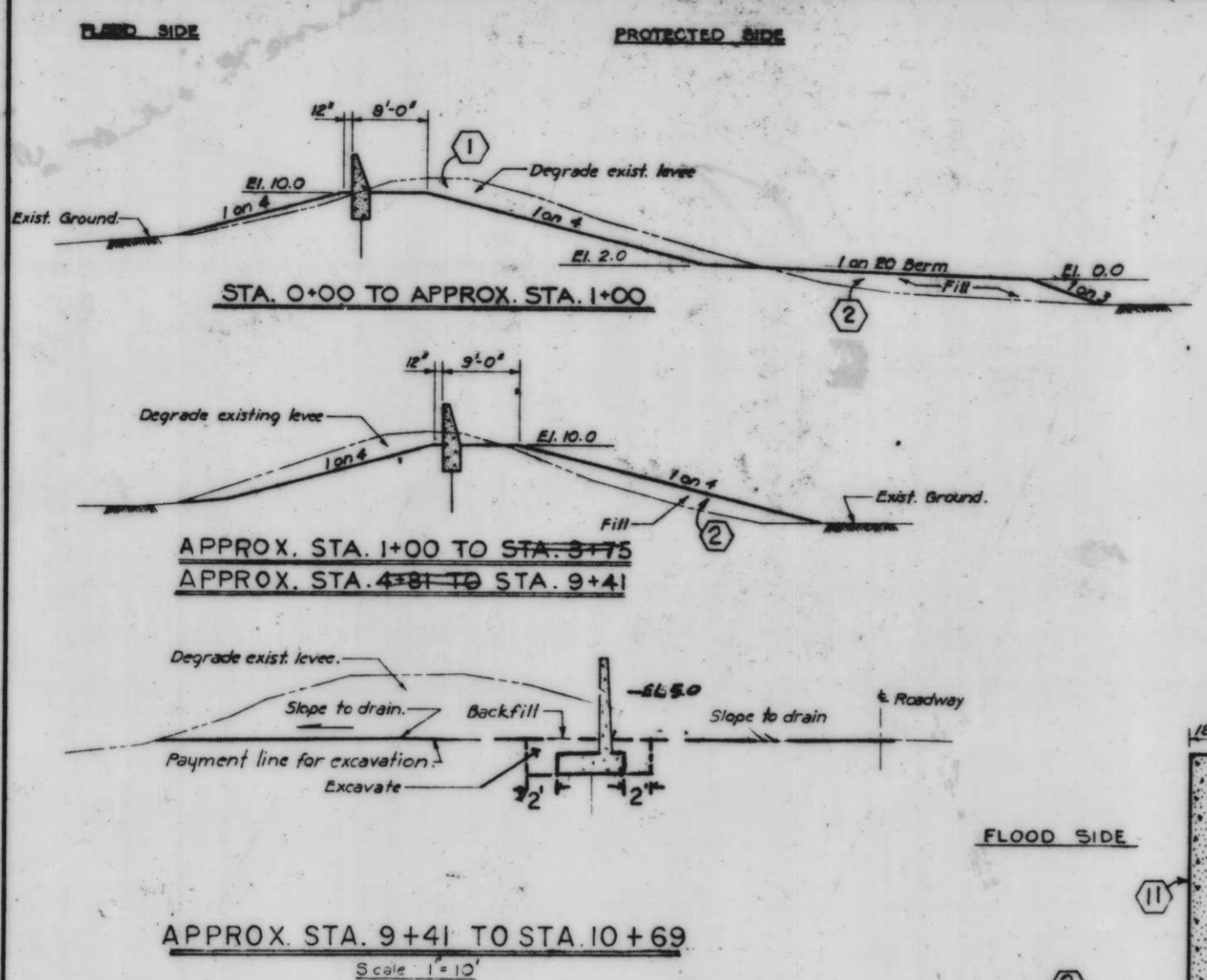
PLAN AND PROFILE

11-27-68 ADDED CONST. EASEMENT ADDENDUM NO. 2
10-1-68 CORRECTED SHEET PILE ELEV. @ GATE 15

REVISION	DATE	DESCRIPTION	BY
J.S.H.	E.J.C.	H.U.	

H-4-24263

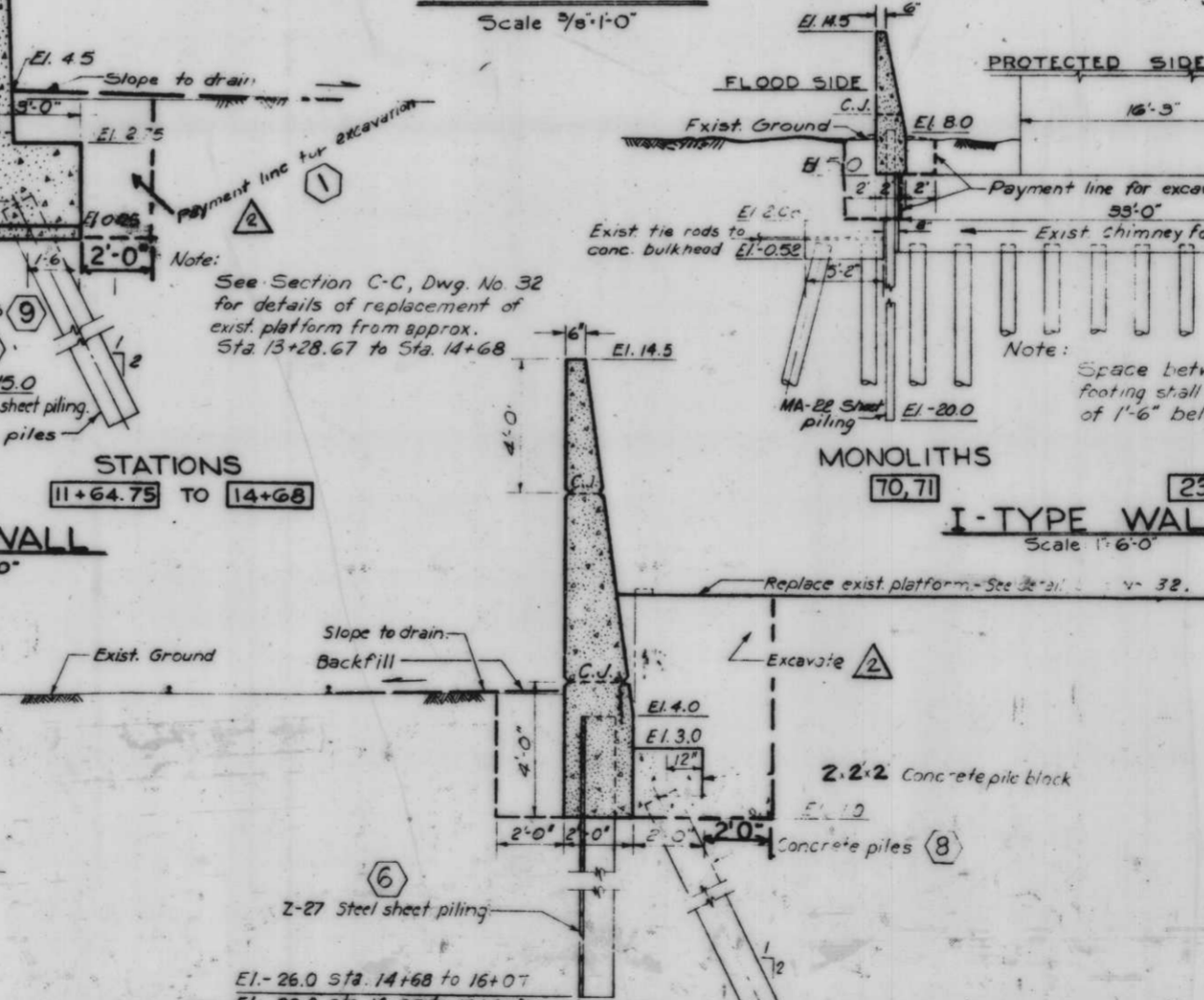
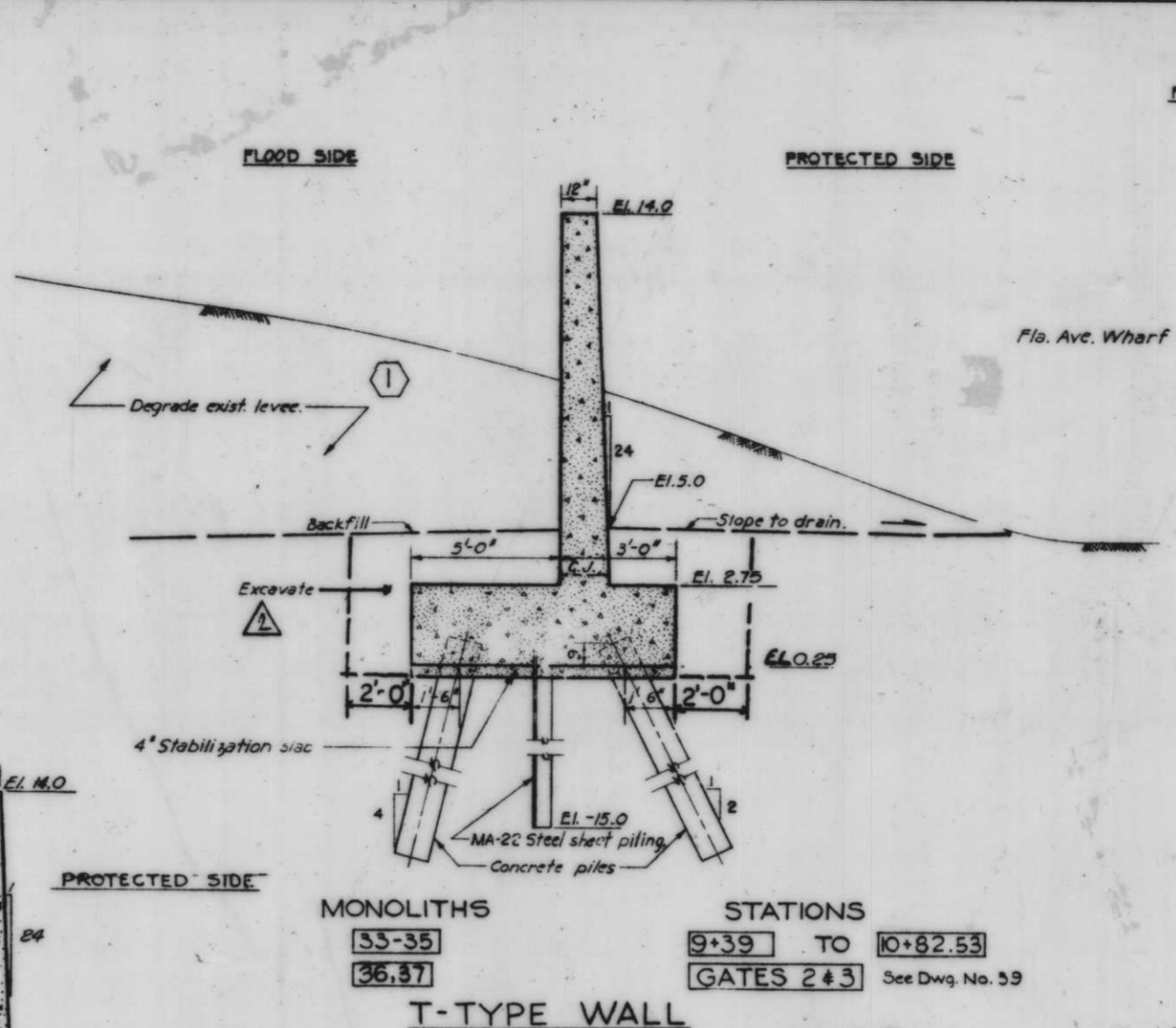
DATE: SCALE: SHOWN: SPEC. NO. DAGES: DWG. NO. 14 OF 78



I-TYPE WALL
Scale: 3/8" = 1'-0"

MONOLITHS	STATIONS
1-13	0+00 TO 3+90
14-16	3+90 TO 4+80
17-32	4+80 TO 9+39

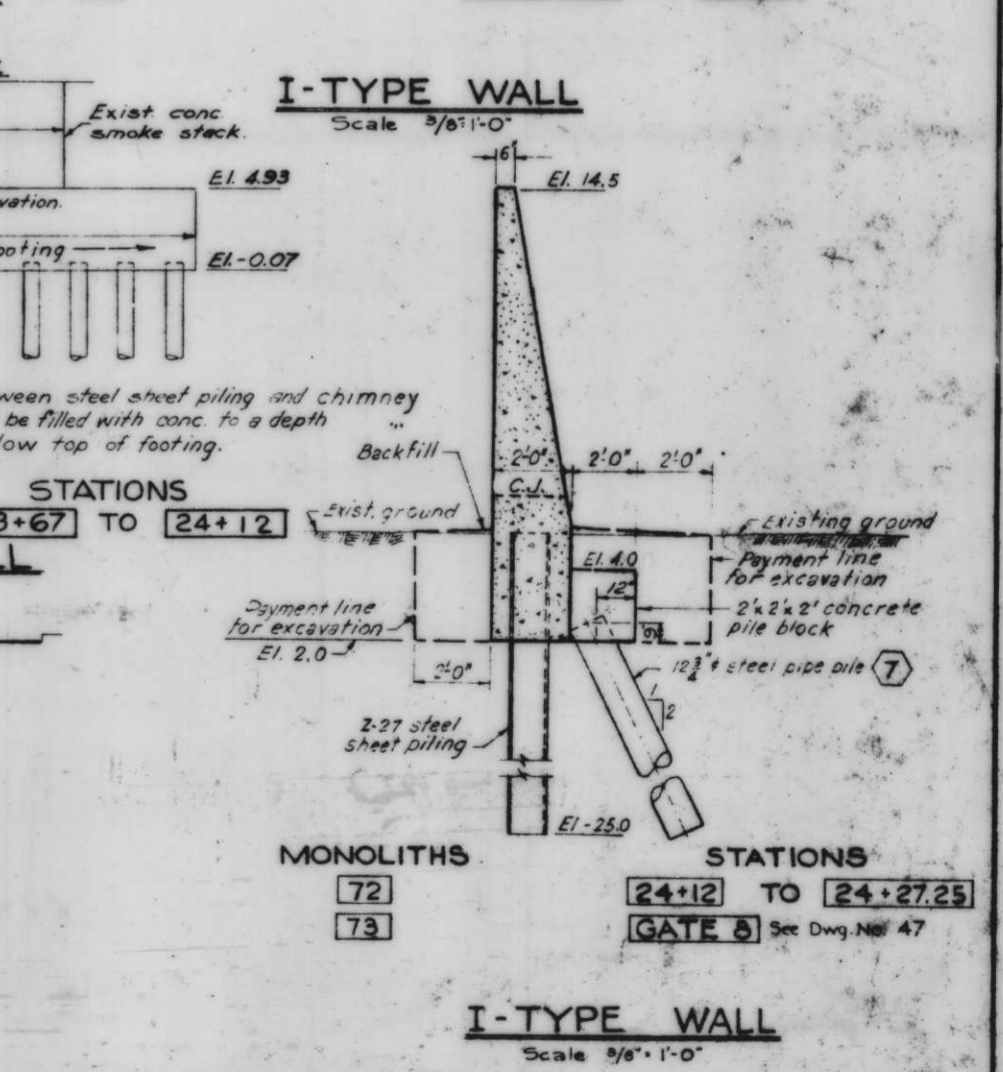
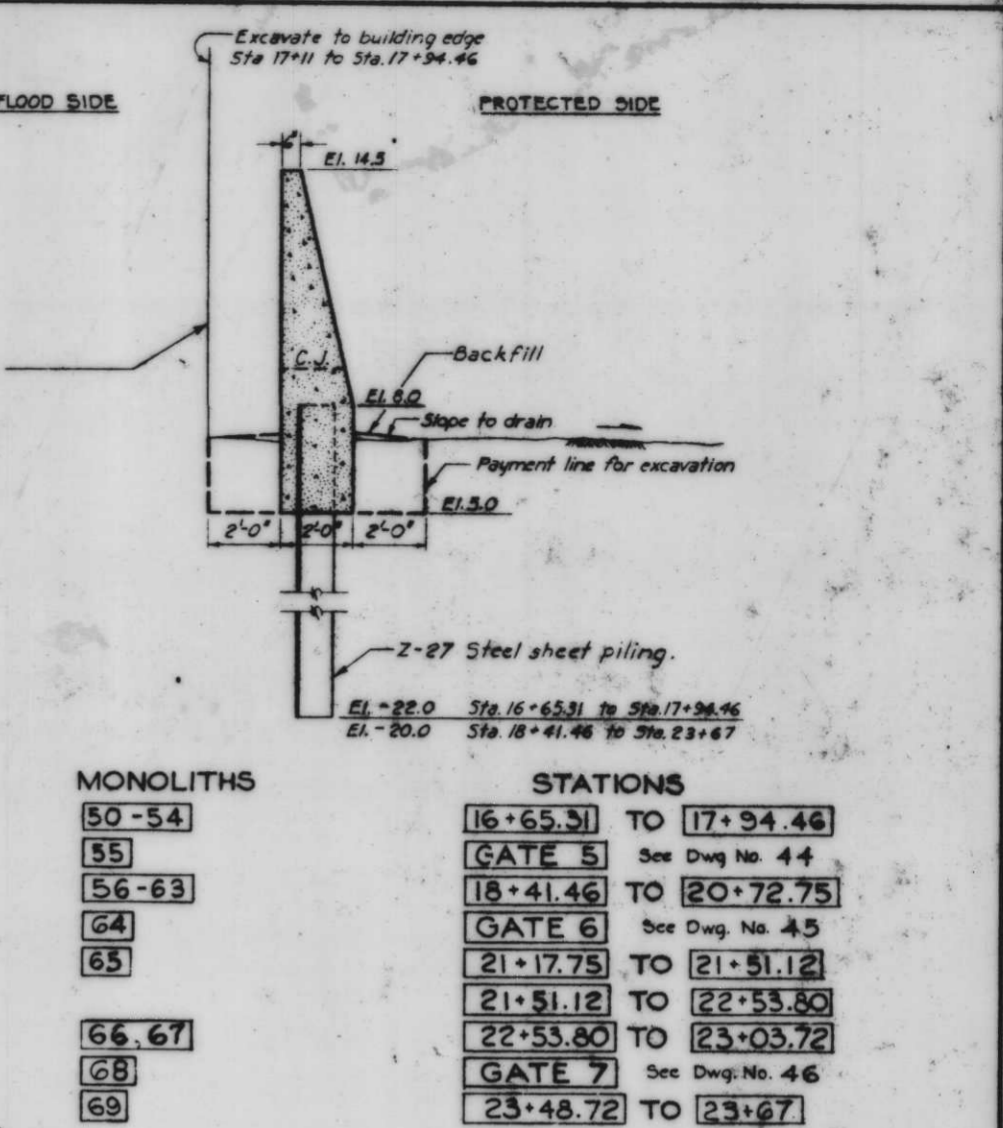
Note: All sheet piling in monoliths 1 thru 13 and 17 thru 32 shall be coated on both sides with 20 mils of cold tar epoxy between El. +2.5 and El. +7.5.



I-TYPE WALL
Scale: 3/8" = 1'-0"

MONOLITHS	STATIONS
33-35	9+39 TO 10+82.53
36-37	GATES 2 & 3
38-43	11+64.75 TO 14+68
44-48	14+68 TO 16+07
49	GATE 4 See Dwg. No. 42

Note: See Section C-C, Dwg. No. 32 for details of replacement of exist. platform from approx. Sta. 13+28.67 to Sta. 14+68.



I-TYPE WALL
Scale: 3/8" = 1'-0"

MONOLITHS	STATIONS
50-54	16+65.31 TO 17+94.46
55	GATE 5
56-63	18+41.46 TO 20+72.75
64	GATE 6
65	21+17.75 TO 21+51.12
66-67	21+51.12 TO 22+53.80
68	22+53.80 TO 23+03.72
69	GATE 7 See Dwg. No. 46
70, 71	23+67 TO 24+12
72	24+12 TO 24+27.25
73	GATE 8 See Dwg. No. 47

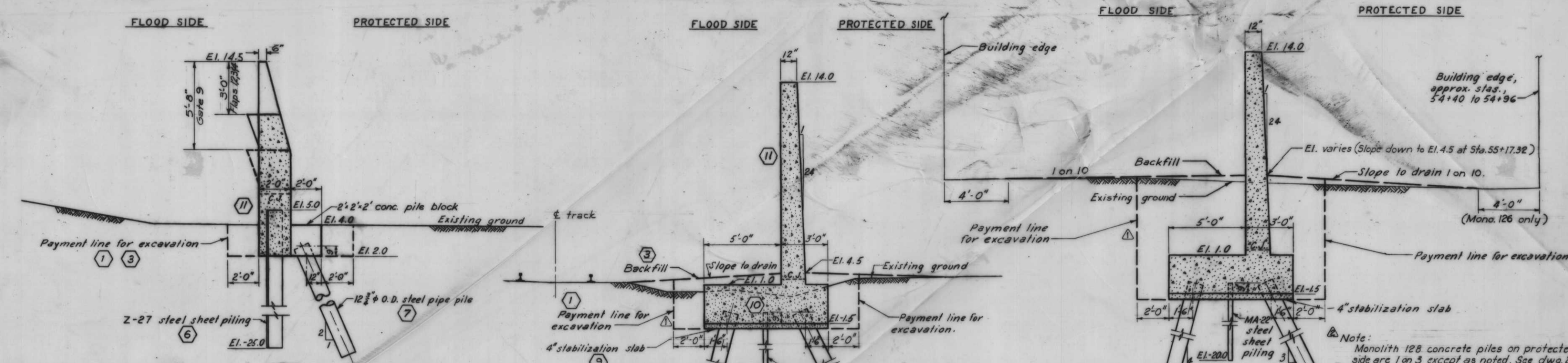
Note: Space between steel sheet piling and chimney footing shall be filled with conc. to a depth of 1'-6" below top of footing.

Note: For steel sheet piling plan, see Dwg. Nos. 21, 22, & 23. For concrete and steel pipe pile details, see Dwg. No. 30.

8-969 CHANGED EXCAVATION SLOPE & WALL STATIONS

6/1/69 Revised construction and Mon. 44-49, 43

REVISION	DATE	DESCRIPTION
DESIGNED	T.F.P.	J.J.P.
DRAWN	J.J.P.	J.S.H.
CHECKED	J.S.H.	
CODE IDENT. NO.	SIZE	FILE NO.
		H-4-24263
DATE	SCALE SHOWN	SPEC. NO. DAWSES
		DWG. NO. 15 OF 79



MONOLITHS
 74-77 HINGED FLAPS 1,2,3&4
 78 GATE 9

STATIONS
 24+74.93 TO 28+01.93 See Dwg. No. 63
 28+01.93 TO 28+84.93 See Dwg. No. 65

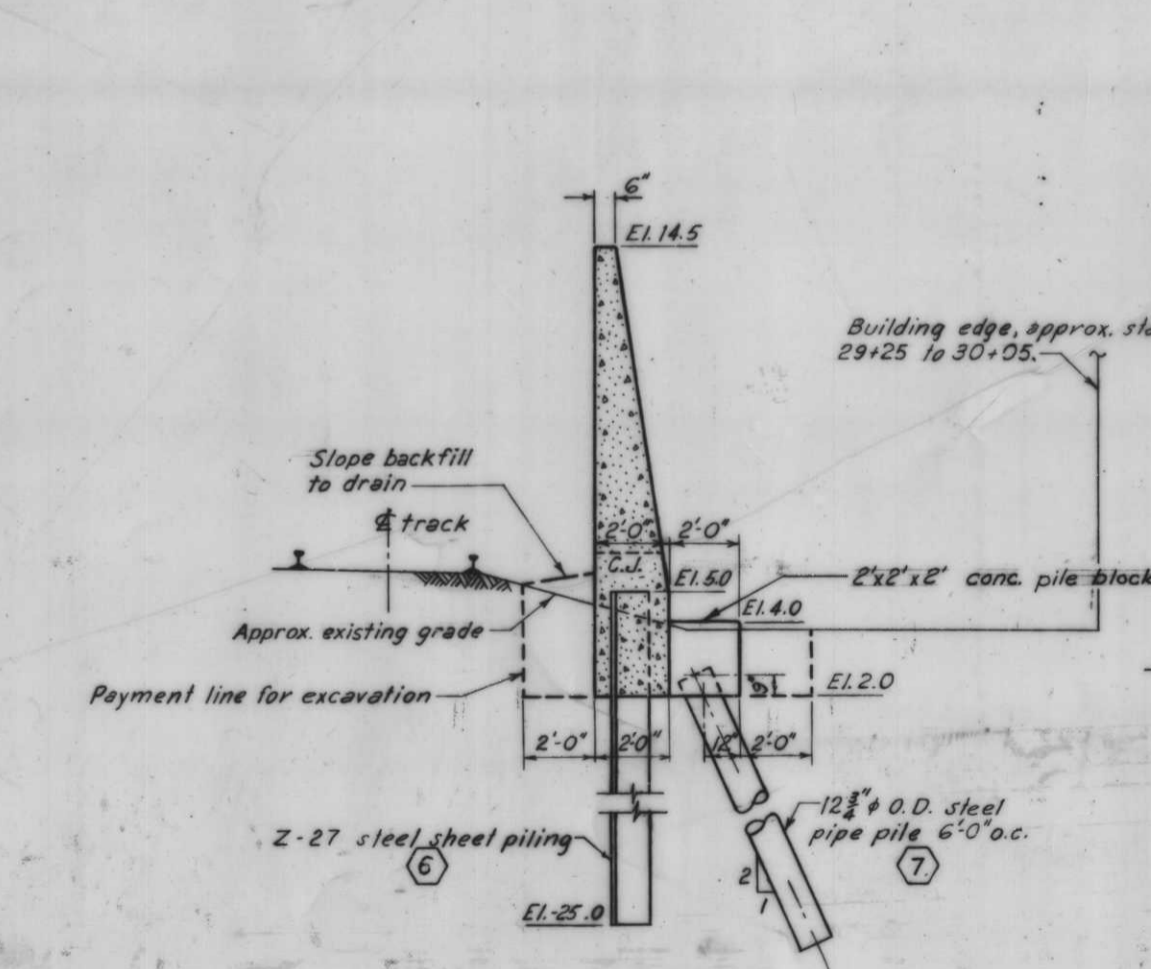
MONOLITHS
 84-98
 99

STATIONS
 30+23.88 TO 38+36.22
 GATE 10 See Dwg. No. 49

MONOLITHS
 126-128

STATIONS
 53+79.45 TO 55+44.00

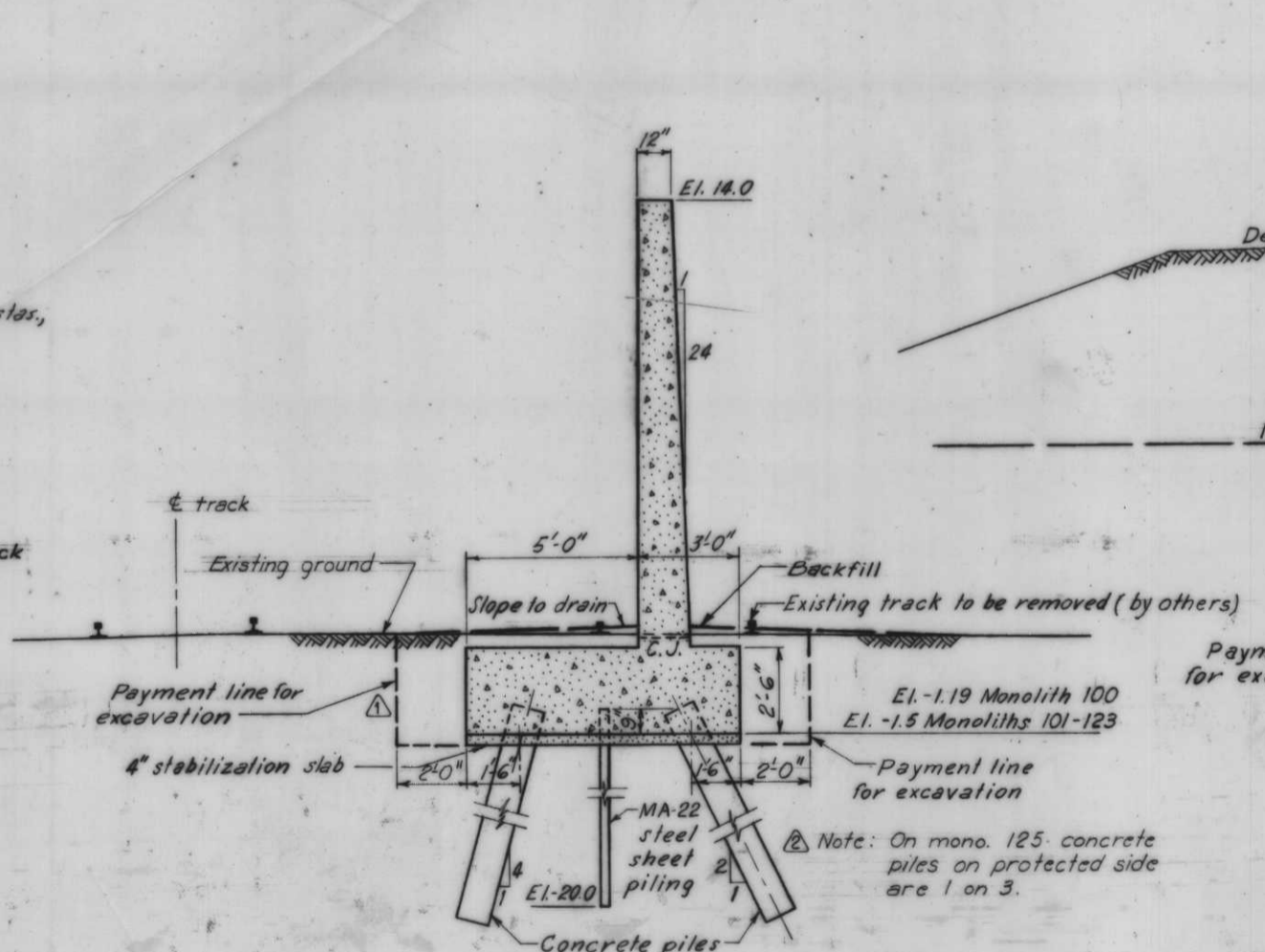
Note: Monolith 126 has a variable sill elevation, see profile Dwg. No. 12.



MONOLITHS
 79-83

STATIONS
 28+84.93 TO 30+23.88

I-TYPE WALL



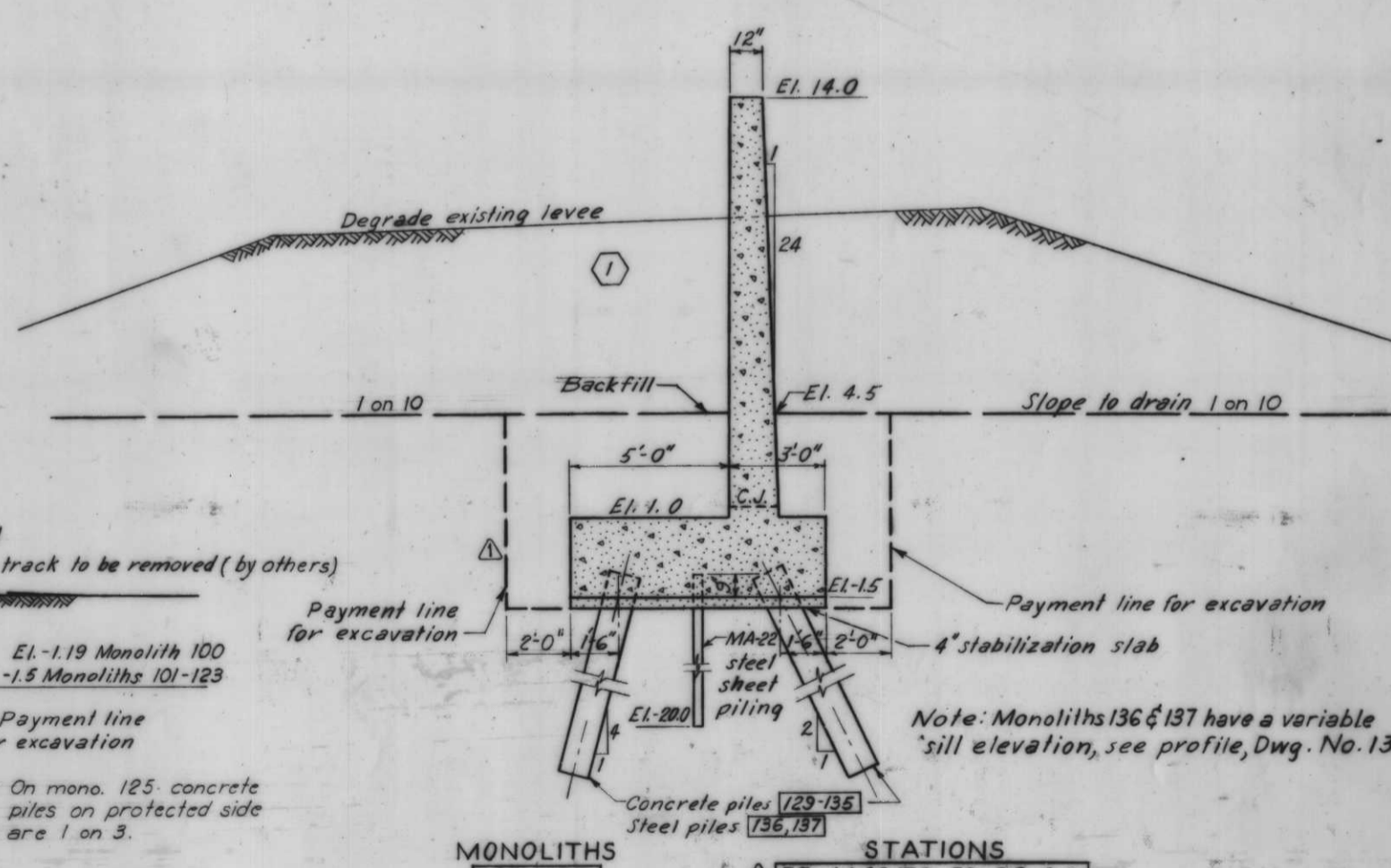
MONOLITHS
 100-123
 124,125

STATIONS
 39+00.72 TO 52+97.20
 GATES 11 & 12 See Dwg. No. 51

T-TYPE WALL

Scale 3/8"=1'-0"

AS CONSTRUCTED



MONOLITHS
 129-137
 138

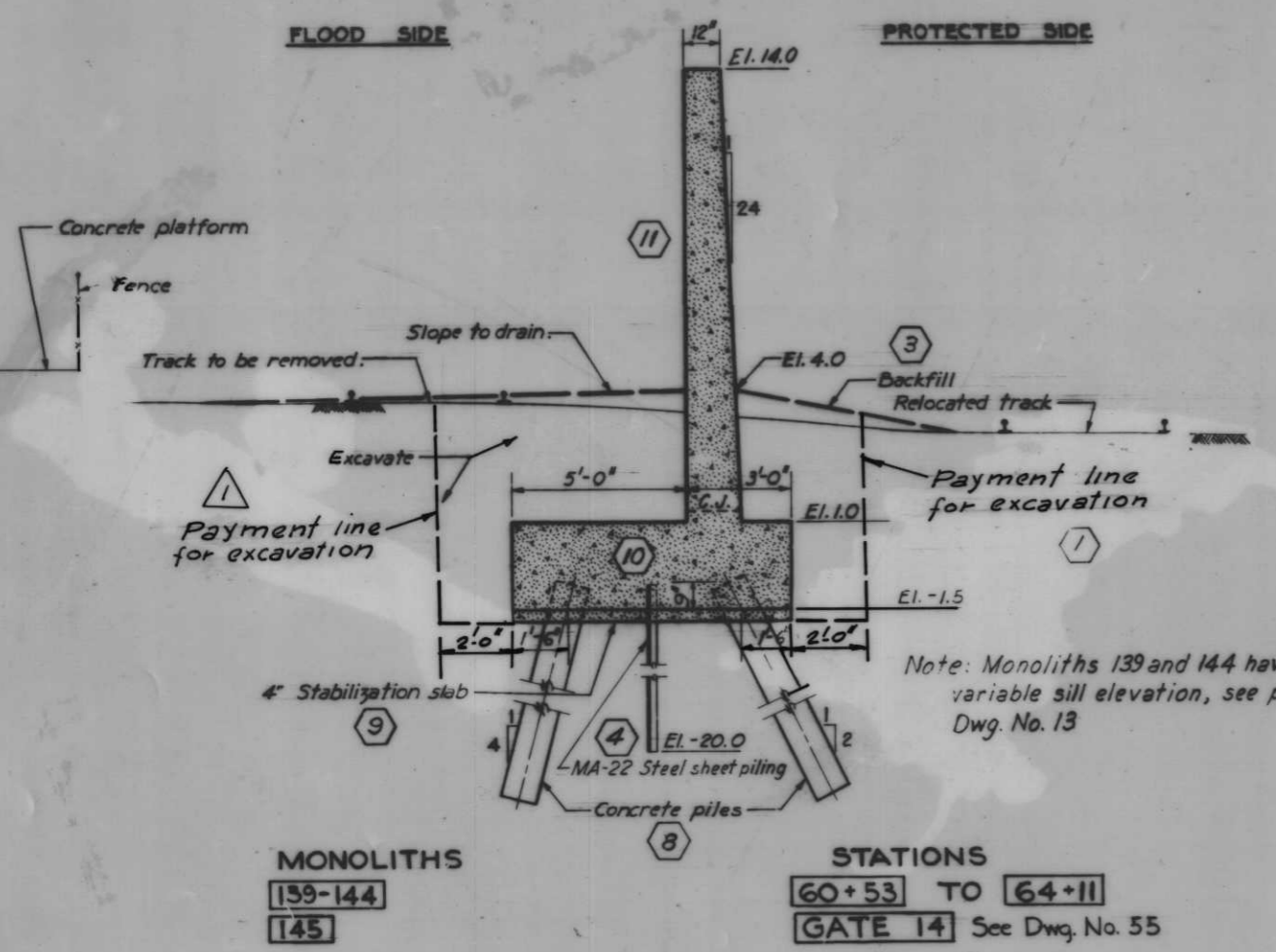
STATIONS
 55+44.00 TO 59+98.00
 GATE 13 See Dwg. No. 54

T-TYPE WALL

Note:
 For steel sheet piling plan, see Dwg. Nos. 21, 22 and 23.
 For concrete and steel pipe pile details, see Dwg. No. 30.



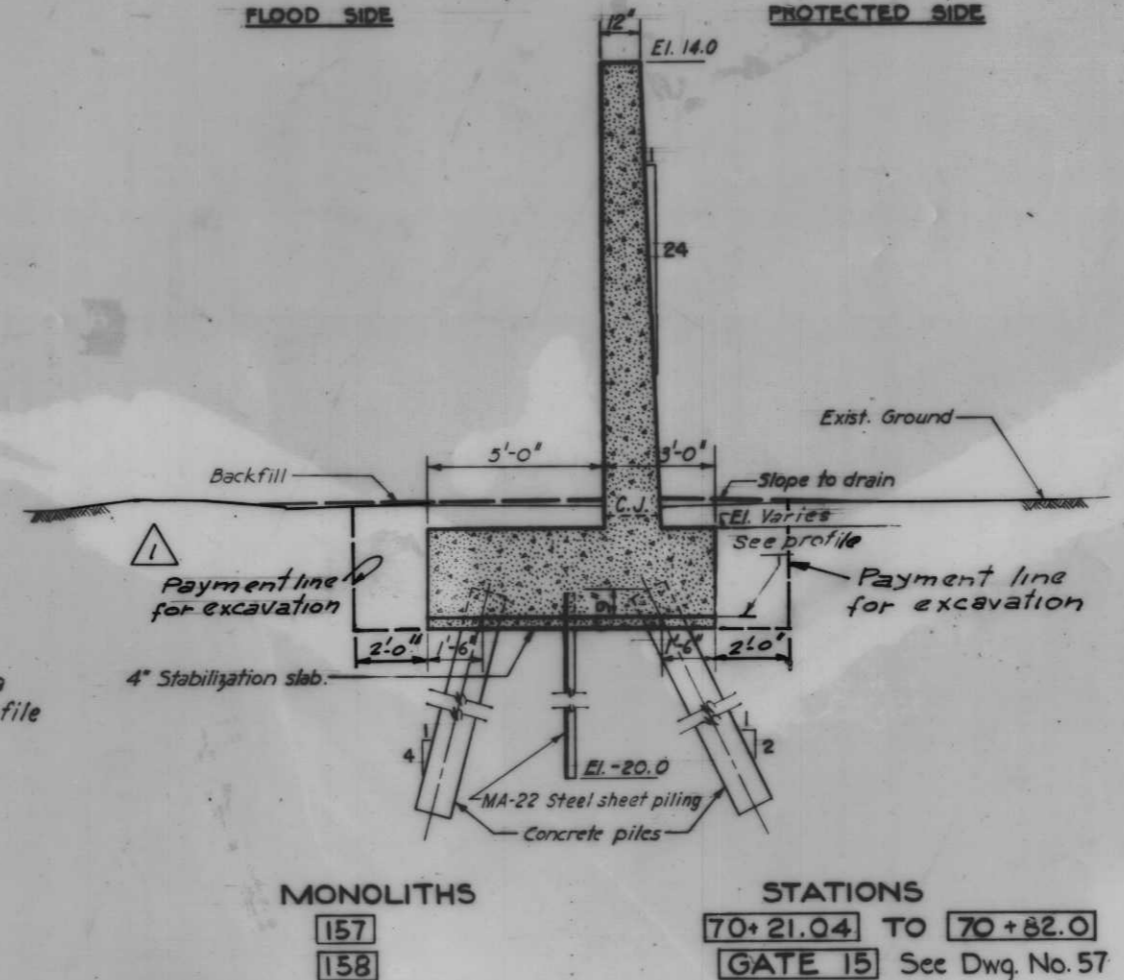
DESIGNED	DATE	DESCRIPTION	BY
T.F.P.	D.J.H.	J.S.H.	
DATE:		SCALE: SHOWN	SPEC. NO. DACW89
DWG. NO. 16 OF 78		H-4-24263	



MONOLITHS
139-144
145

STATIONS
60+53 TO 64+11
GATE 14 See Dwg. No. 55

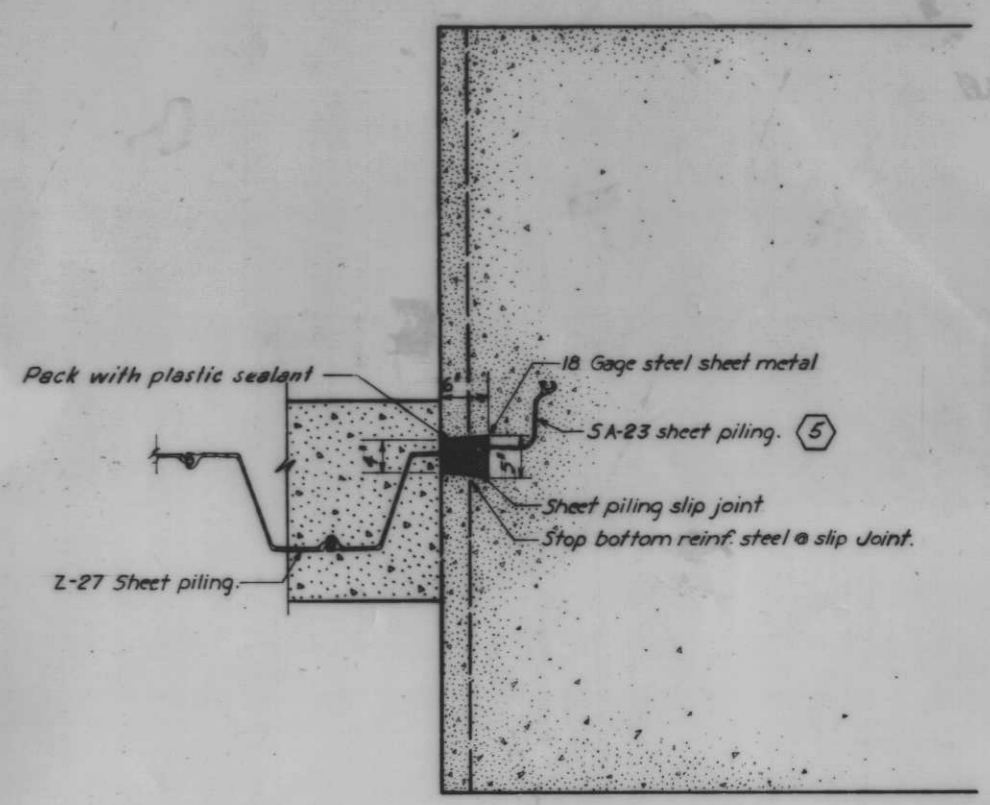
T-TYPE WALL



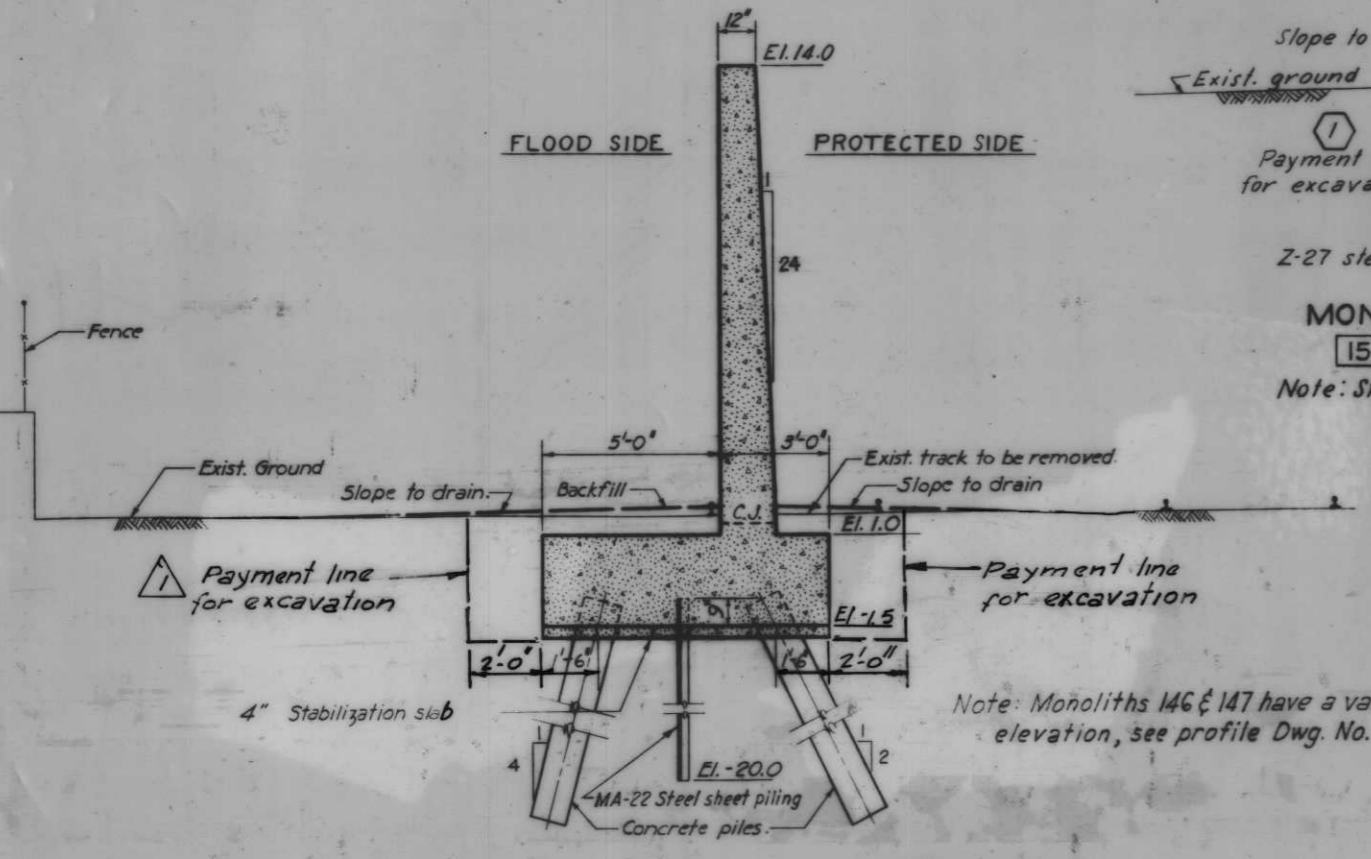
MONOLITHS
157
158

STATIONS
70+21.04 TO 70+82.0
GATE 15 See Dwg. No. 57

T-TYPE WALL



SECTION A-A
Scale 1"=1'-0"



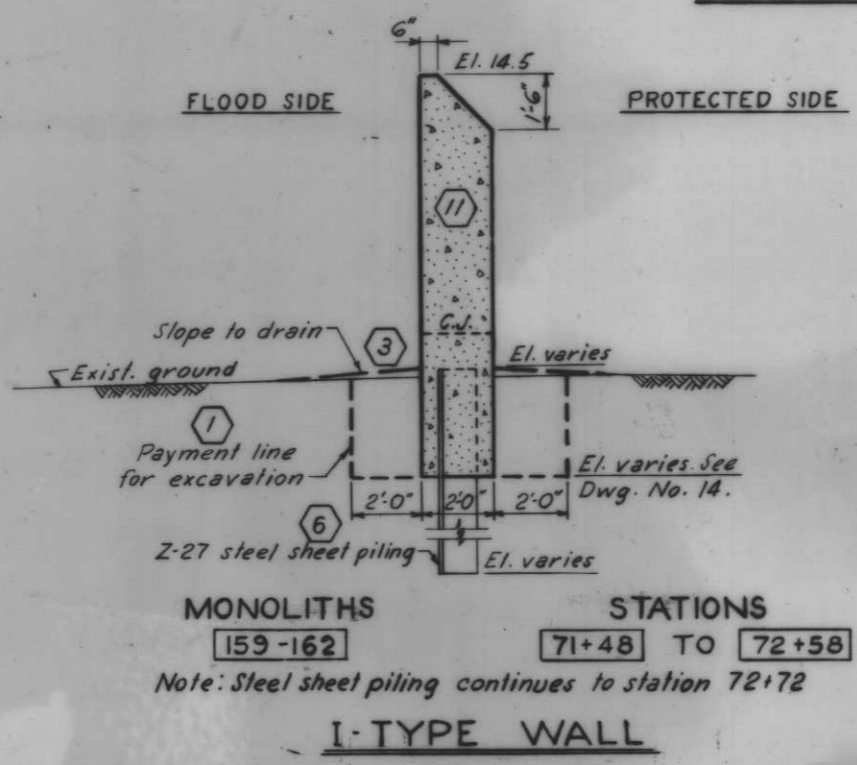
MONOLITHS
146-156

STATIONS
64+56 TO 70+21.04

T-TYPE WALL

Scale 1"=1'-0"

AS CONSTRUCTED

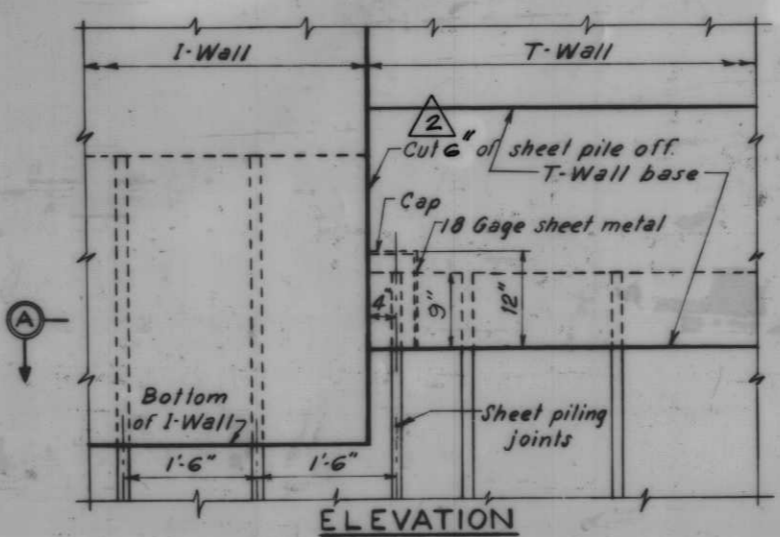


MONOLITHS
159-162

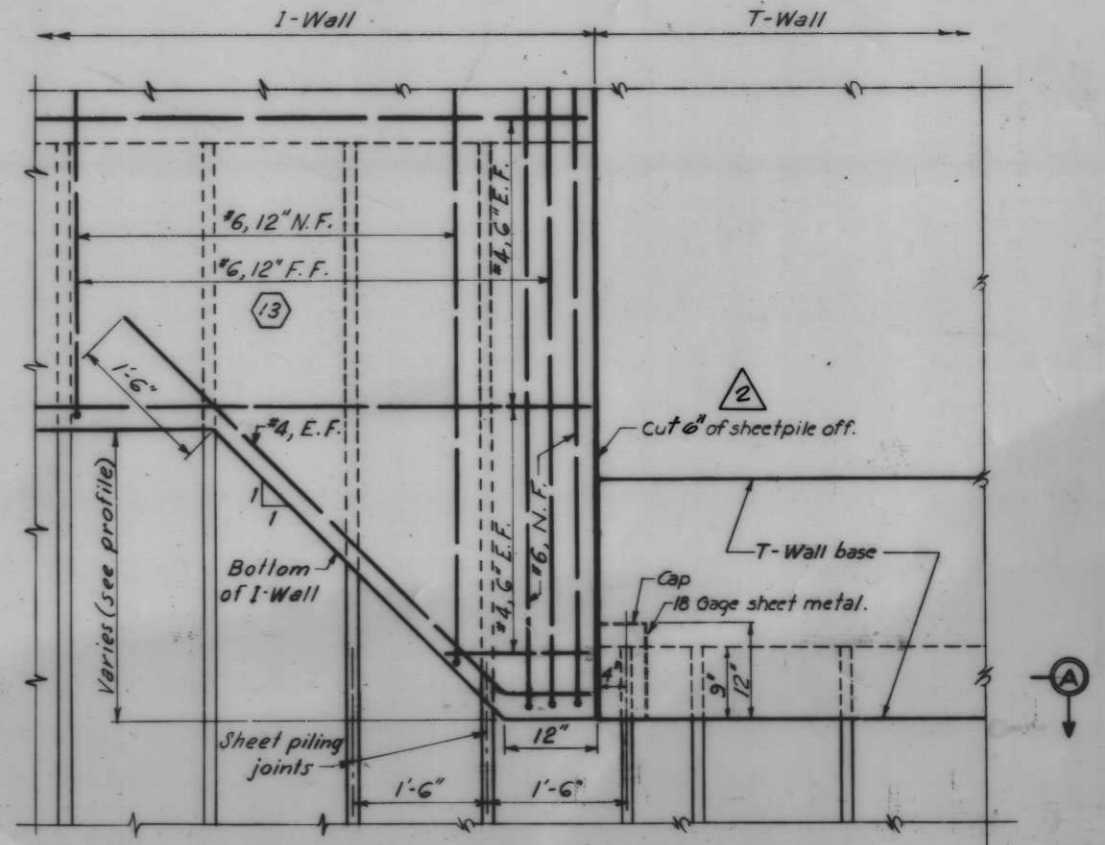
STATIONS
71+48 TO 72+58

Note: Steel sheet piling continues to station 72+72

I-TYPE WALL



TYPICAL DETAIL FOR I-WALL
TO T-WALL WHERE T-WALL BASE EL.
IS HIGHER THAN BOTTOM OF I-WALL



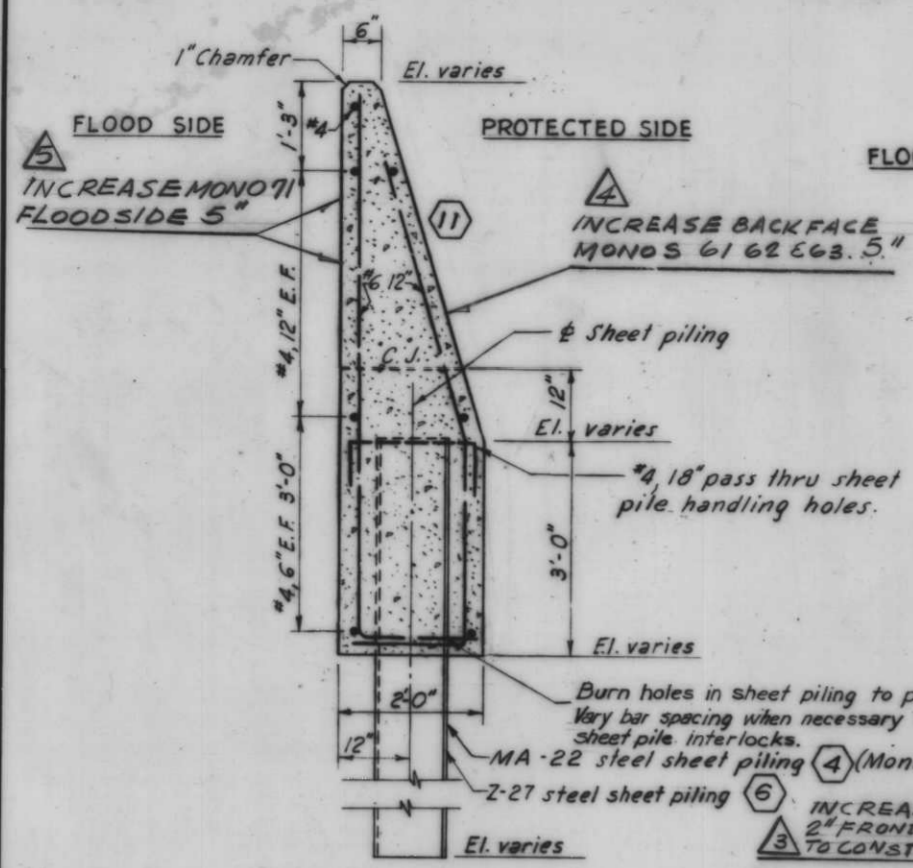
ELEVATION
DETAIL OF TRANSITION FROM I-WALL
TO T-WALL WHERE I-WALL BASE IS
HIGHER THAN BOTTOM OF T-WALL BASE
Scale 1"=1'-0"

Note: For steel sheet piling plan see Dwg. Nos. 21, 22 and 23.
For concrete pile details, see Dwg. No. 30.

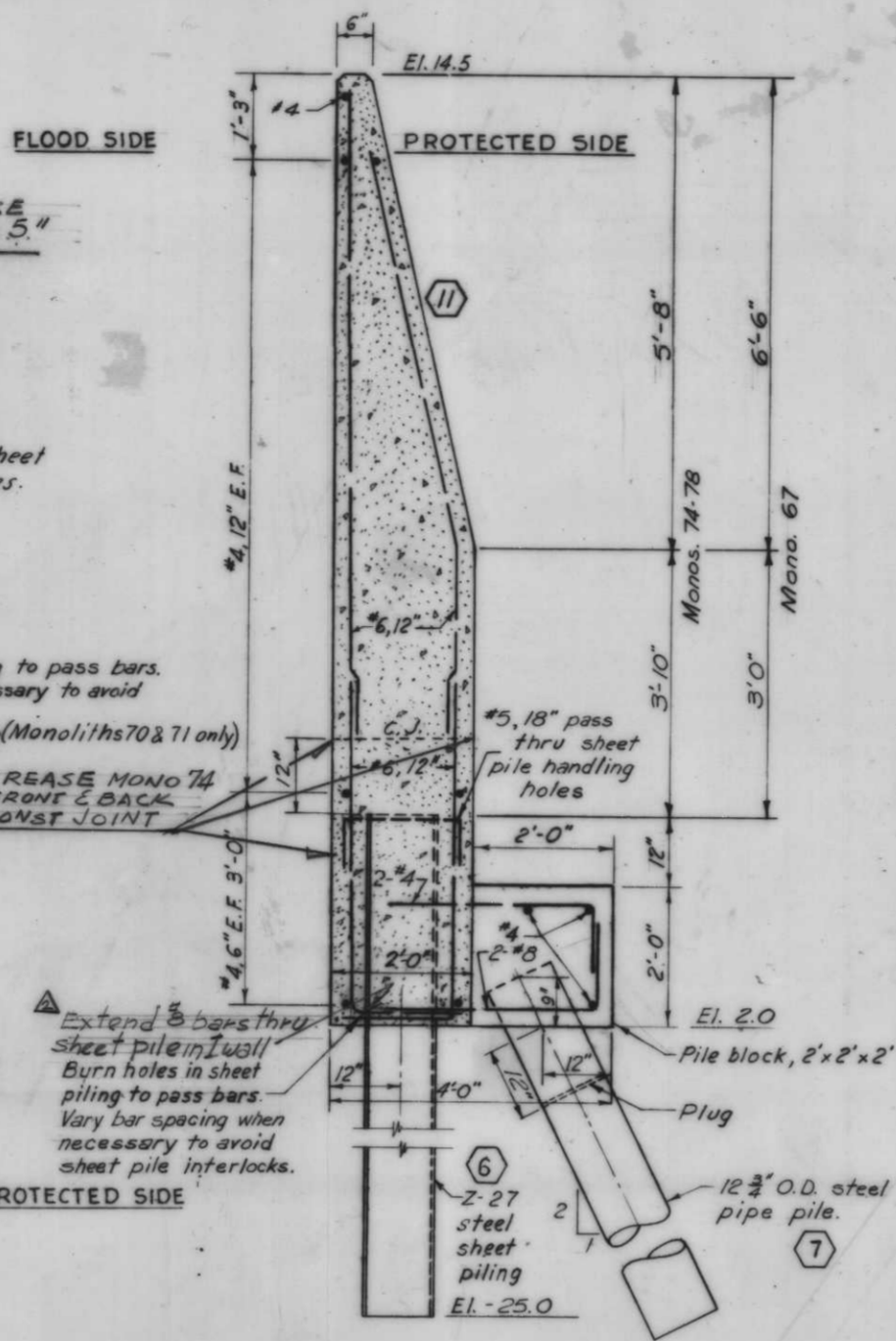
2	12.2.68	CHANGED SHEET PILE CUT OFF FROM 4 TO 6				
1	10.1.68	ADJUSTED EXC. PAYLINE ON T-WALL				
REVISION	DATE	DESCRIPTION				
DESIGNED	DRAWN	CHECKED	CODE IDENT. NO.	SIZE	FILE NO.	BY
T.F.P.	J.J.P.	J.S.H.				H-4-24263
DATE:	SCALE SHOWN	SPEC. NO. DAW28-	DWG. NO. 17 OF 78			

TYPICAL SECTIONS

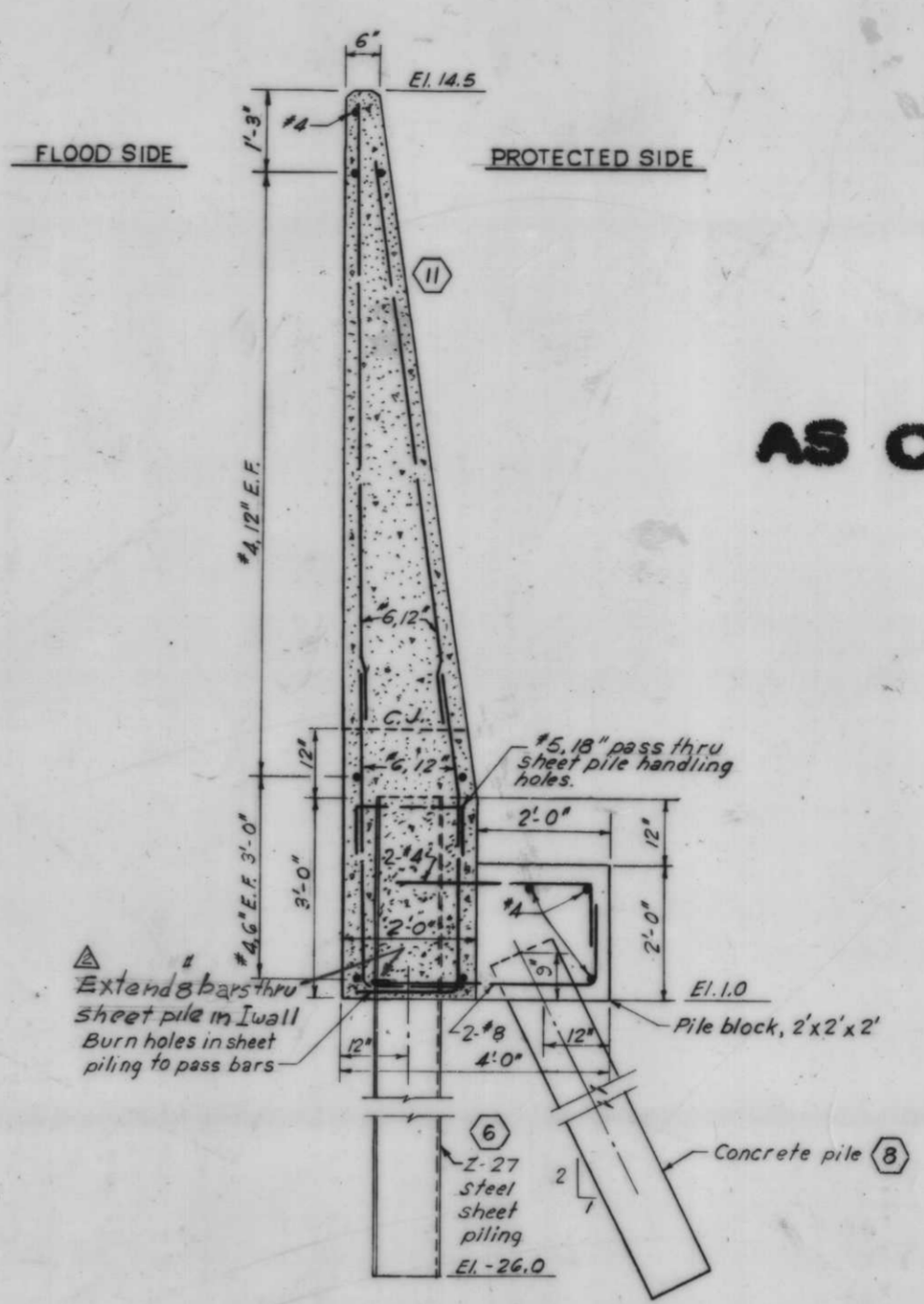
AS CONSTRUCTED



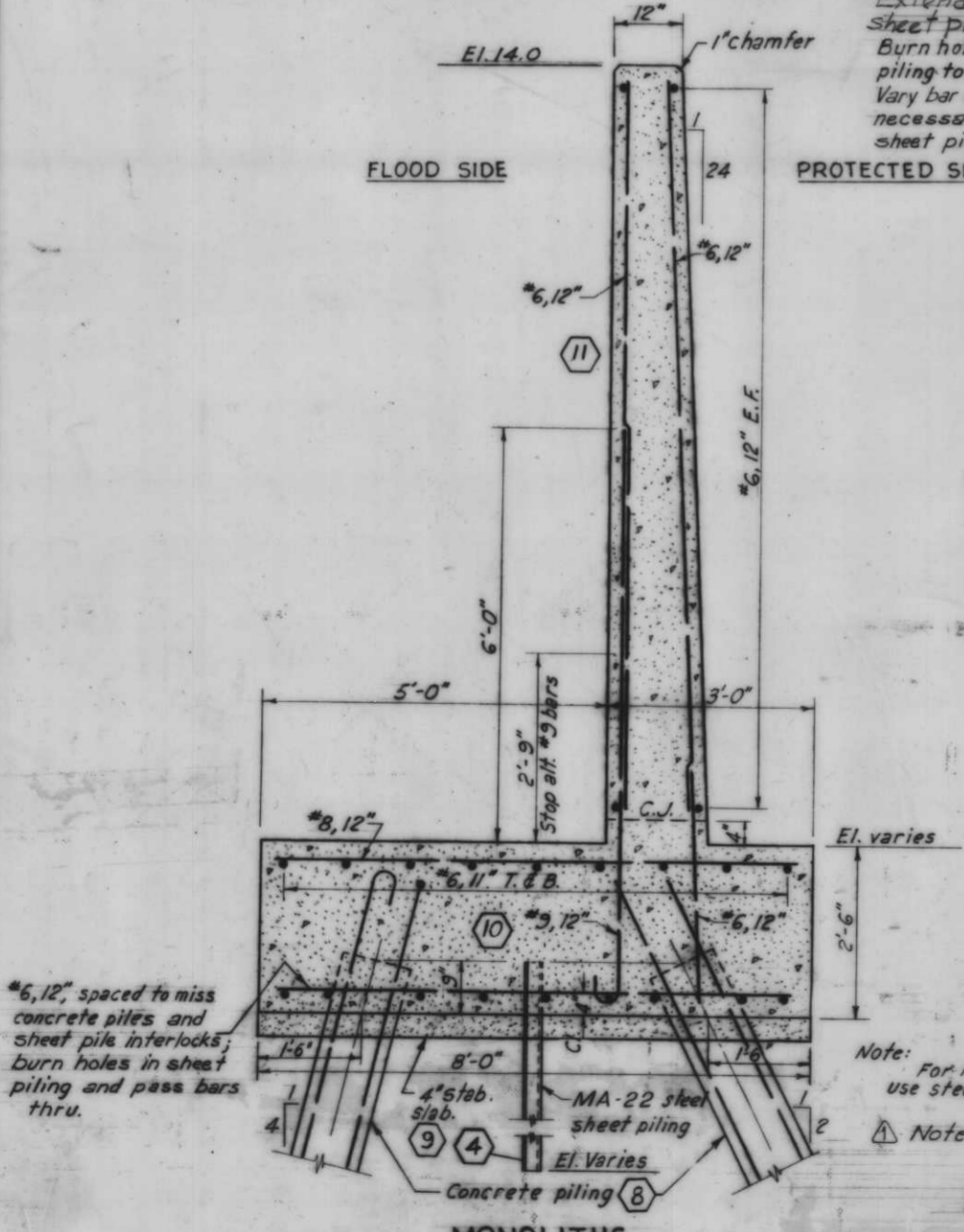
MONOLITHS
 1-13 17-32 50-54 56-63
 65-67 69-71
TYPICAL I-WALL SECTION



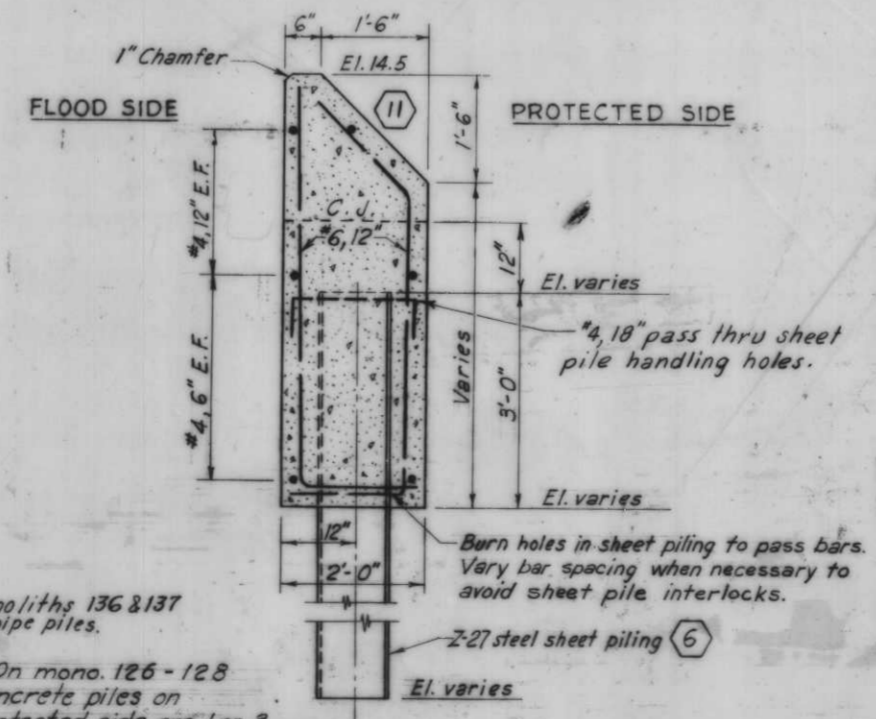
MONOLITHS
 72 79-83
TYPICAL I-WALL WITH PILE BLOCK SECTIONS



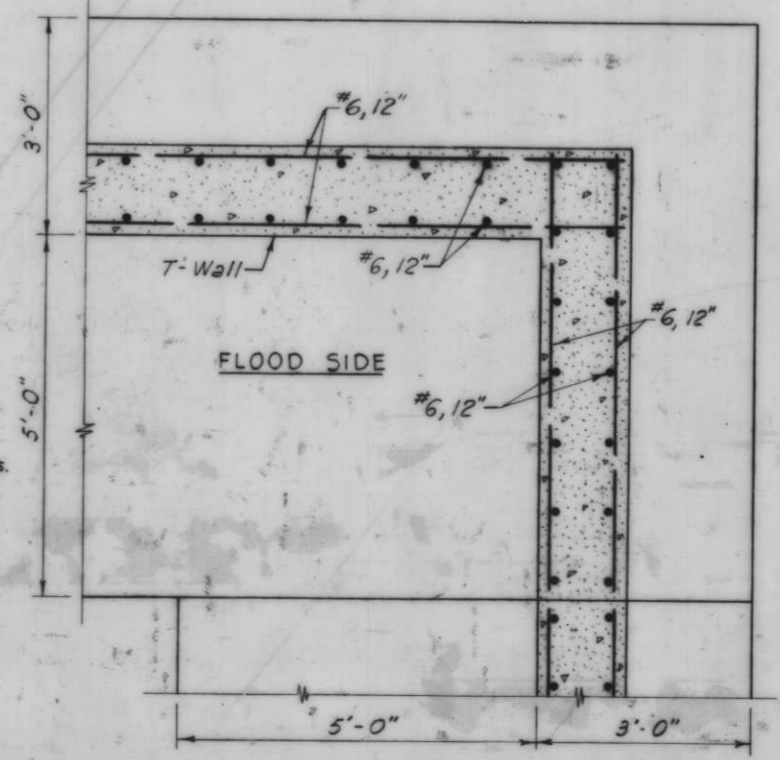
MONOLITHS
 44-48



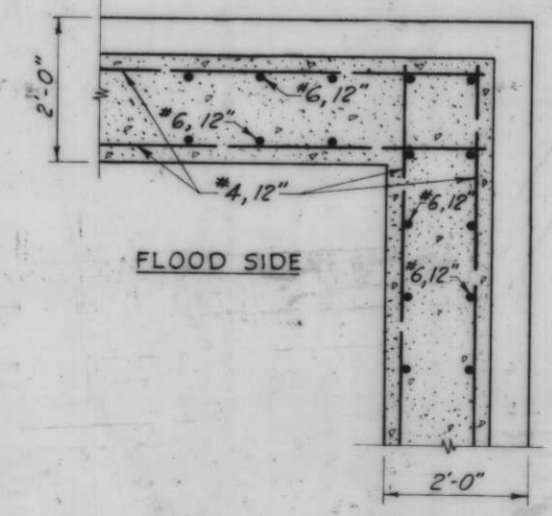
MONOLITHS
 14 16 33-35 37-43 84-98
 100-123 126-137 139-144 146-157
TYPICAL T-WALL SECTION



MONOLITHS
 159-162
TYPICAL I-WALL SECTION



TYPICAL T-WALL CORNER DETAIL



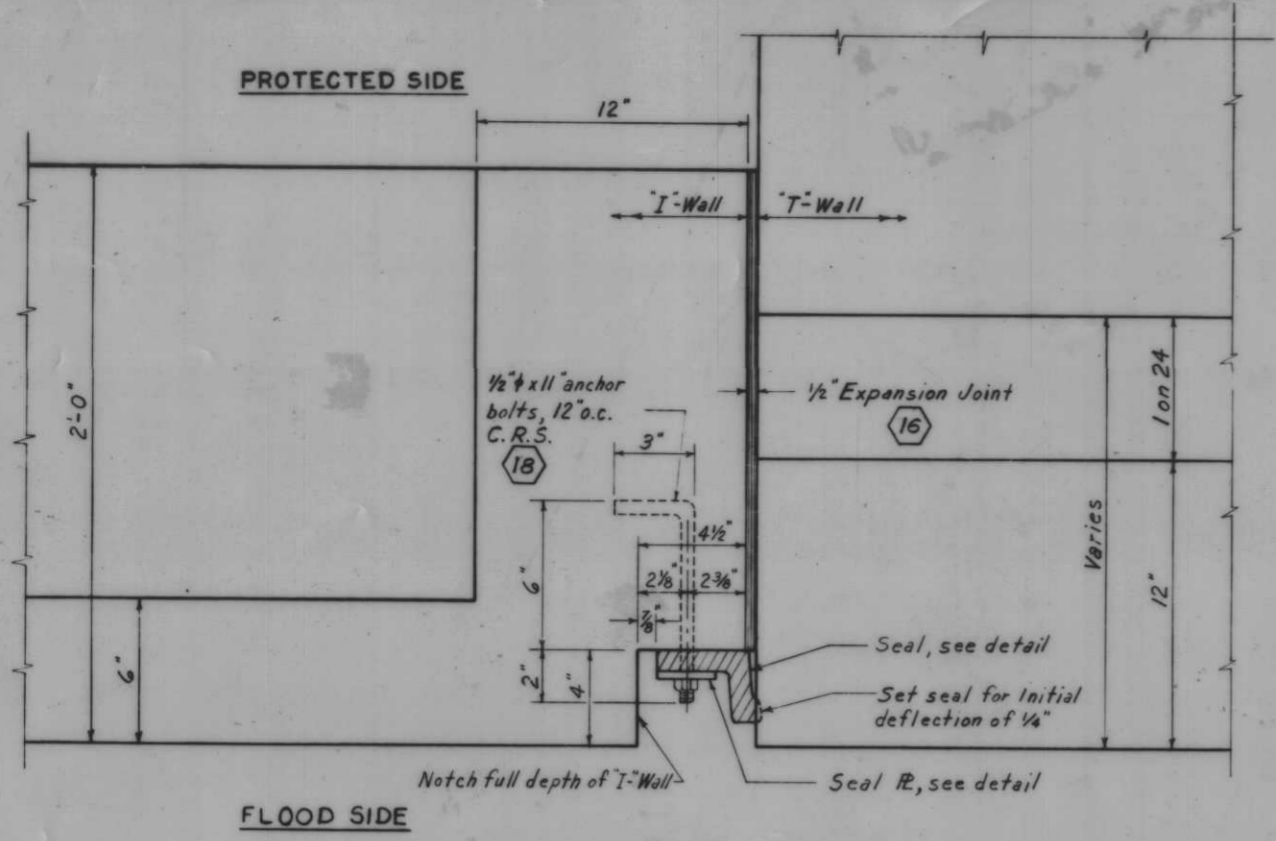
TYPICAL I-WALL CORNER DETAIL

Note:
 For steel sheet piling plan see Dwg. Nos. 21, 22 and 23.
 For concrete and steel pipe pile details, see Dwg. No. 30.
 For general notes, see Dwg. No. 4.
 Reinforcing steel, except in concrete piles will be paid for at unit price bid for item No. 13.
 All holes cut in sheet piling for reinf. shall not exceed 1/2 inch.

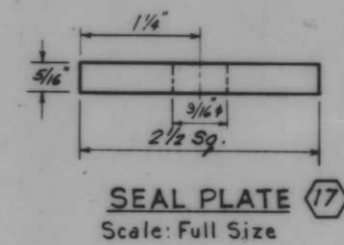
Scale: 3/4" = 1'-0"
 5.22.72 INCREASE MONOS. WIDTH

TYPICAL WALL SECTIONS

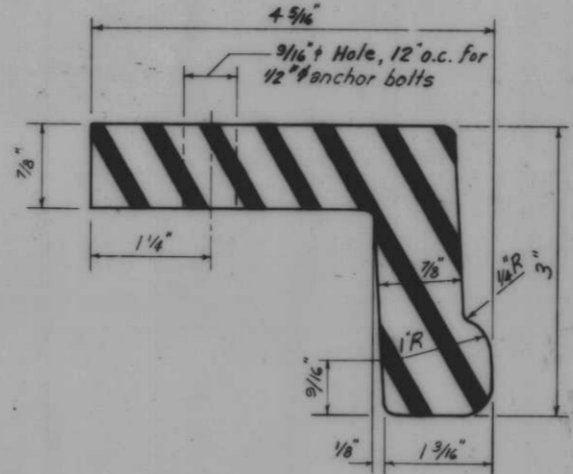
DESIGNED:		DRAWN:		CHECKED:		CODE IDENT. NO.		SIZE		FILE NO.		BY	
C.W.R.		E.M.		H.U.								H-4-24263	
DATE:		SCALE: SHOW		SPEC. NO. DASHES:		DWG. NO. 18 OF 78							



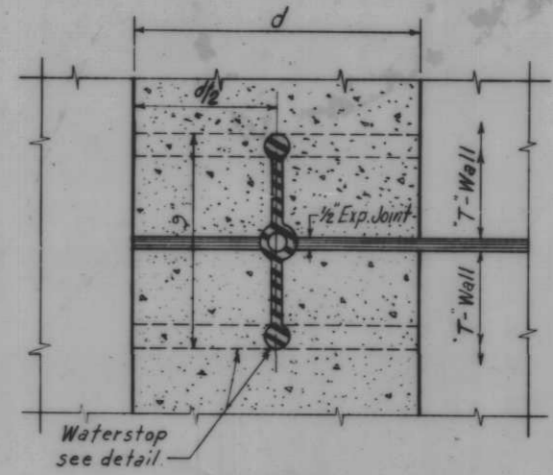
PLAN
Scale: 3" = 1'-0"



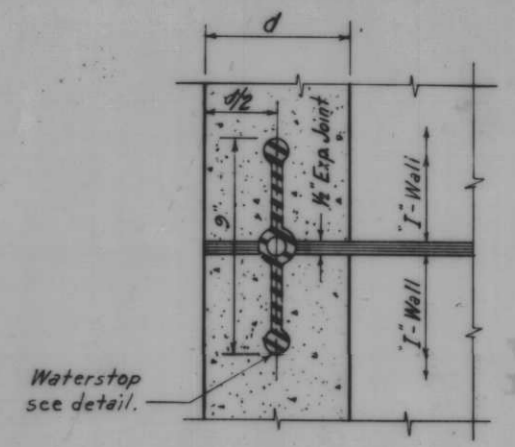
SEAL PLATE (17)
Scale: Full Size



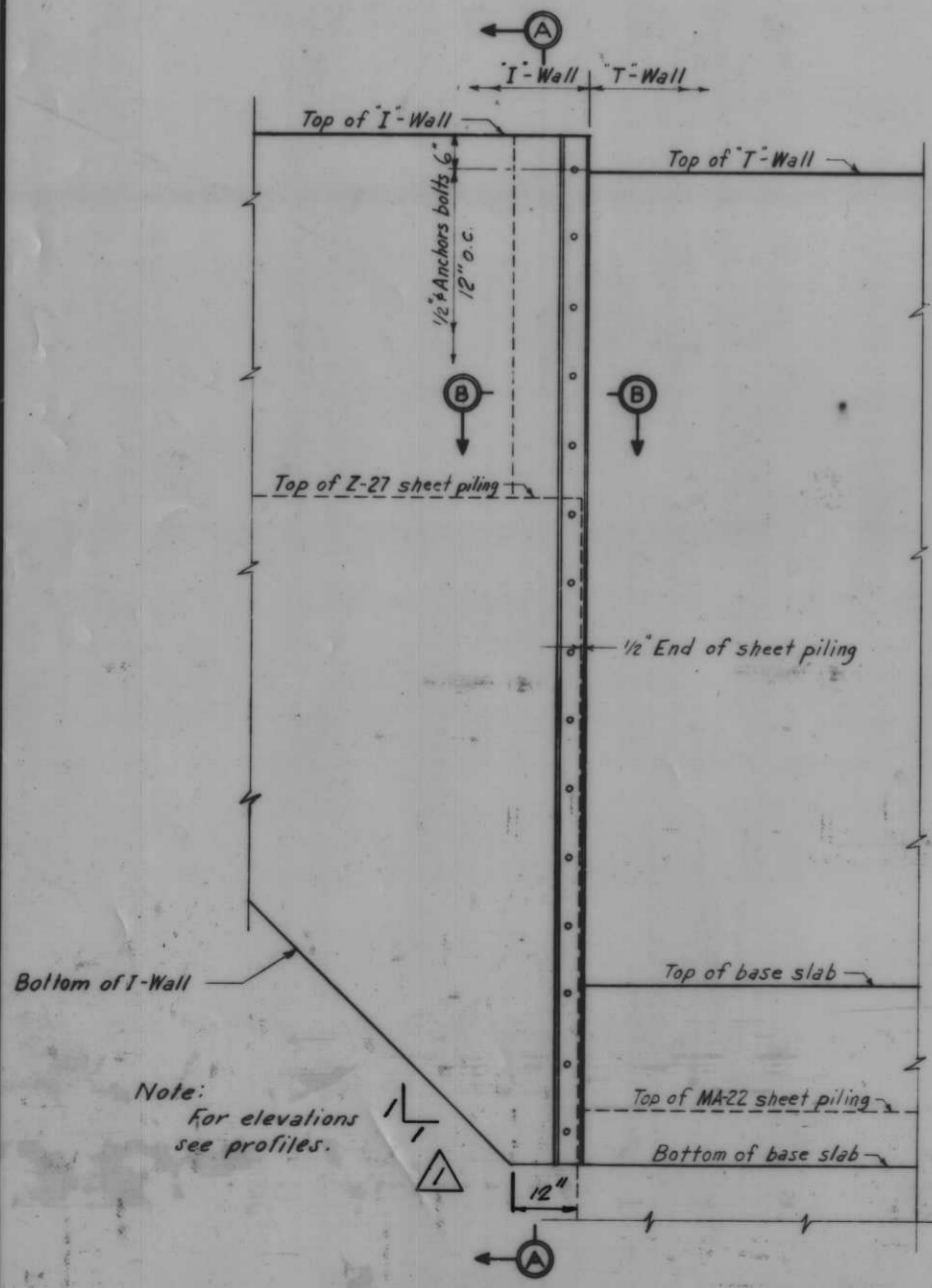
SEAL DETAIL (15)
Scale: Full Size



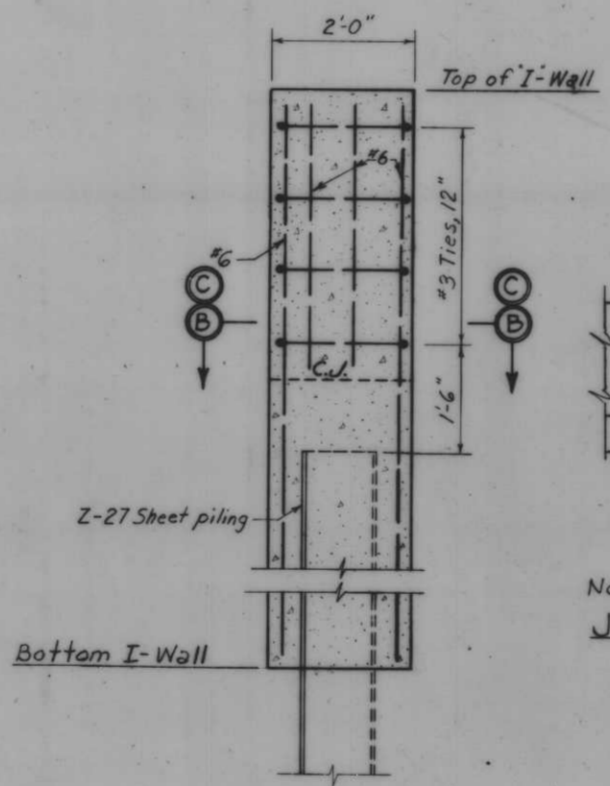
SECTION
Scale: 3" = 1'-0"



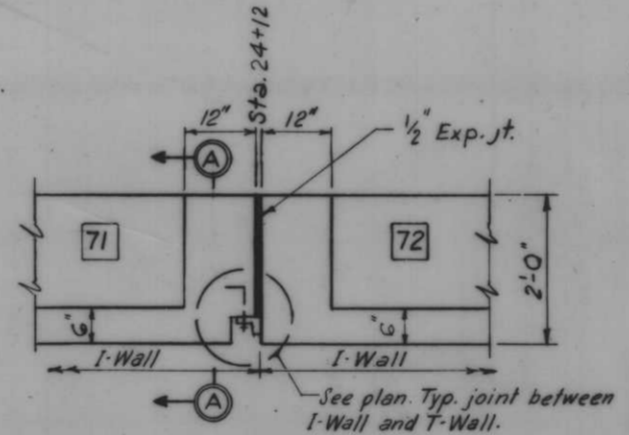
SECTION
Scale: 3" = 1'-0"



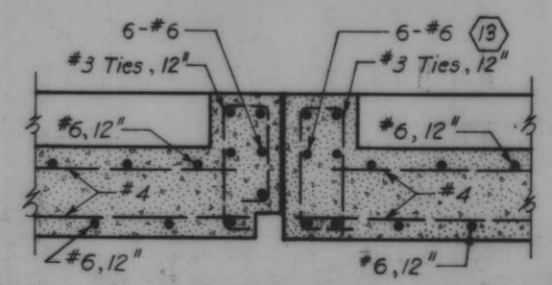
FLOOD SIDE ELEVATION
Scale 3/4" = 1'-0"



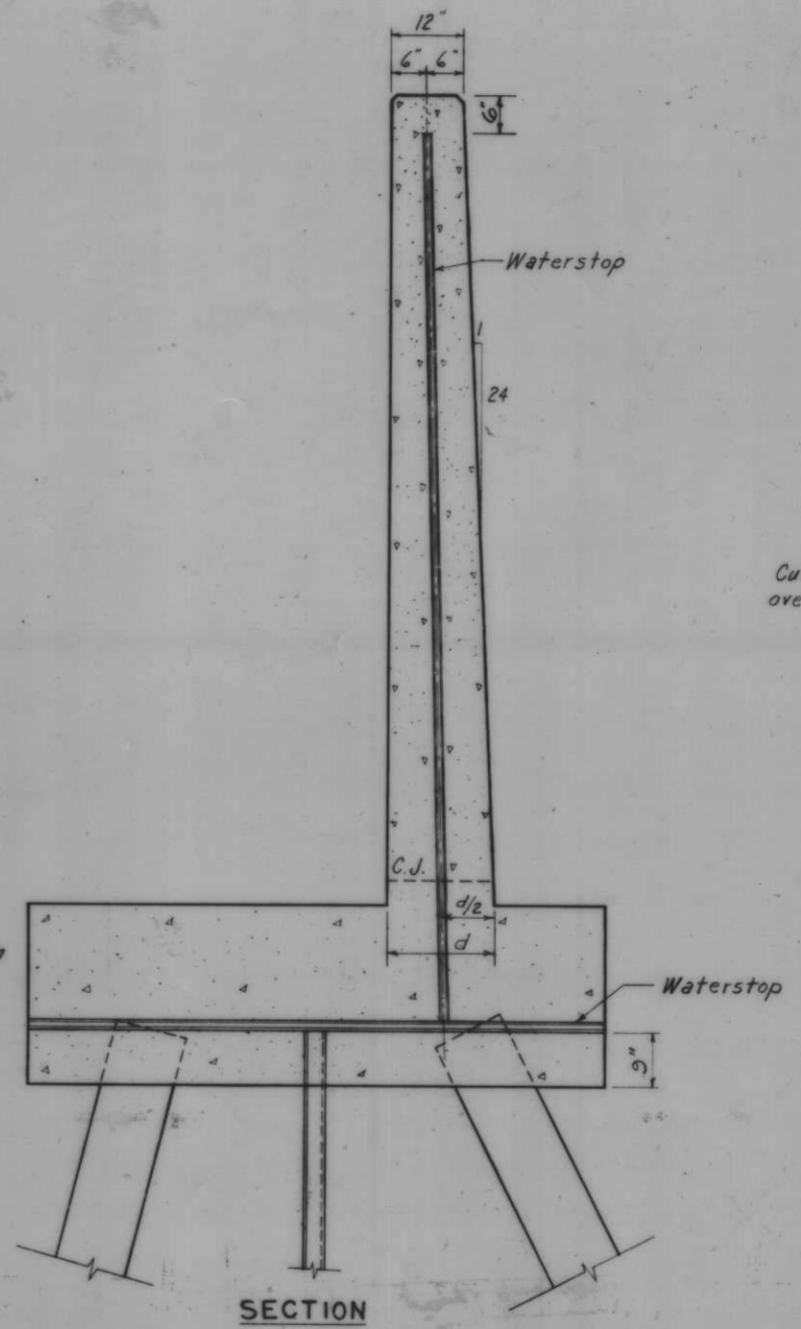
SECTION A-A
Scale: 3/4" = 1'-0"



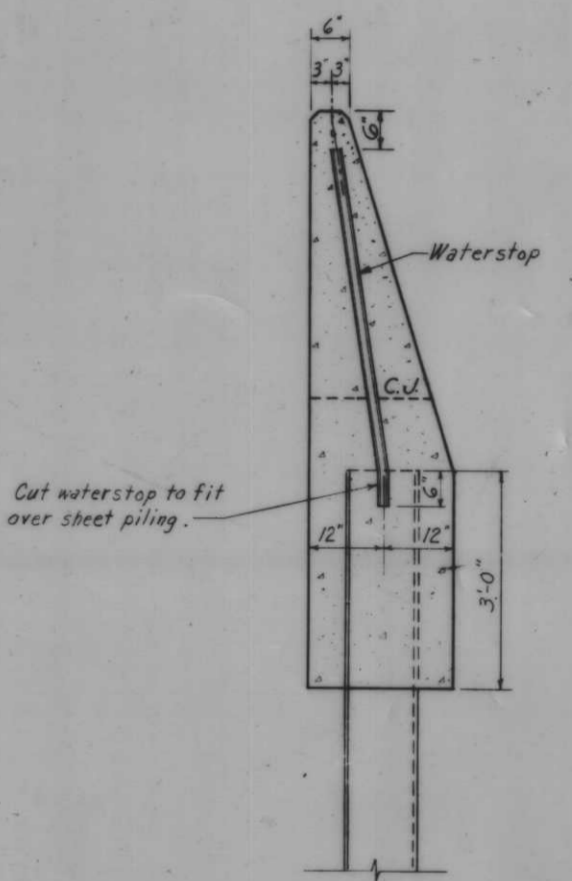
Note: Reinf. as shown Sections A-A and C-C
JOINT BETWEEN MONOLITHS (71 AND 72)
Scale: 3/4" = 1'-0"



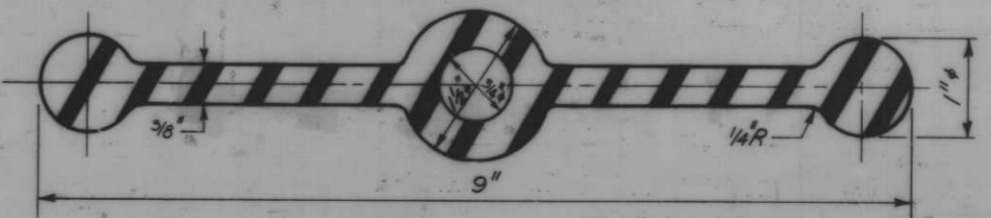
SECTION C-C
Scale: 3/4" = 1'-0"



TYPICAL T-WALL JOINT
Scale: 3/4" = 1'-0"



TYPICAL I-WALL JOINT
Scale: 3/4" = 1'-0"



WATERSTOP (14)
Scale: Full Size

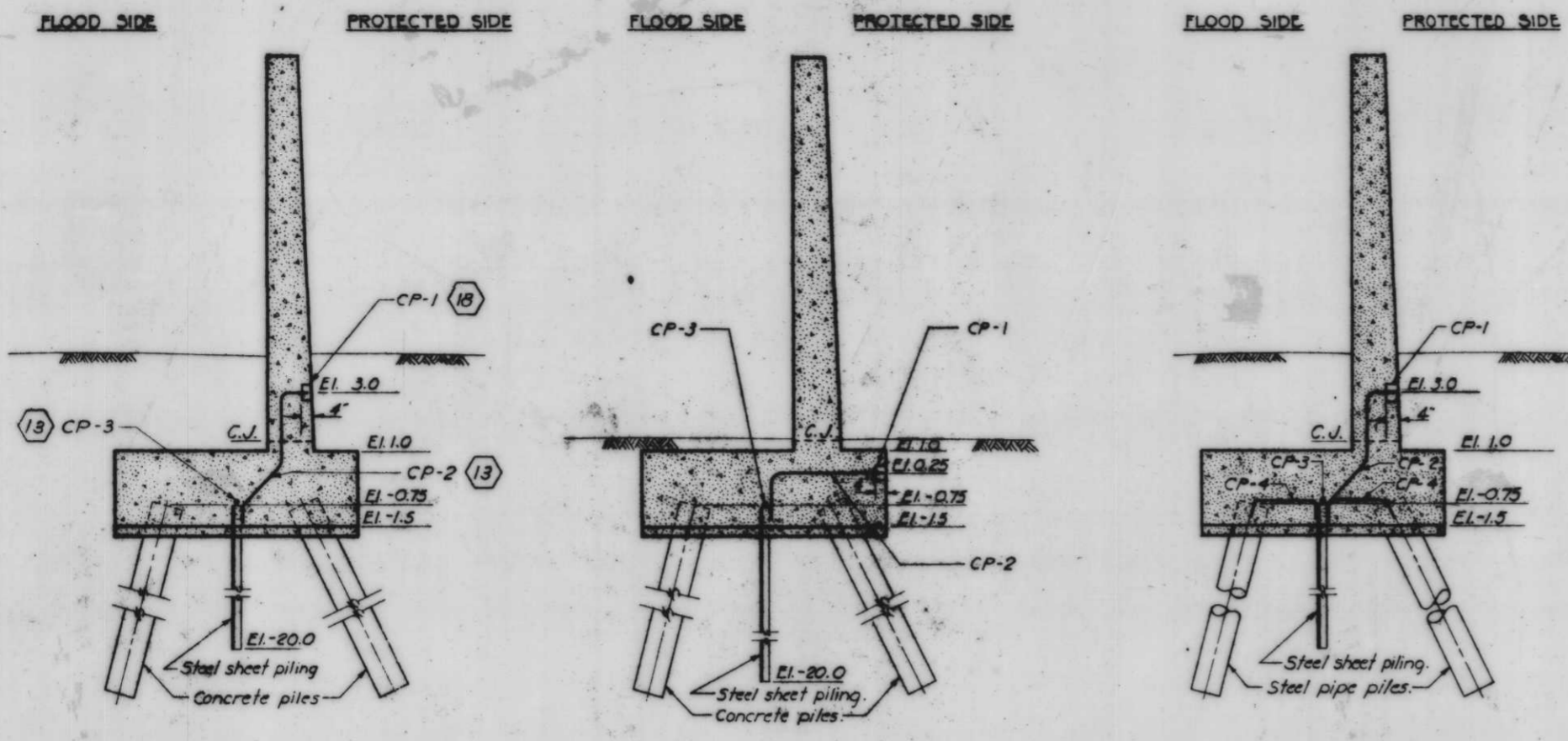
TYPICAL WALL JOINTS

TYPICAL WATERSTOP JOINTS

Note: For general notes, see Dwg. No. 4.

AS CONSTRUCTED

1	12.26.68	ADDED SLOPE DIMENSION ON I-WALL			
REVISION	DATE	DESCRIPTION	BY	DATE	SCALE SHOWN
DESIGNED:	DRAWN:	CHECKED:	CODE IDENT. NO.	SIZE	FILE NO.
D.A.M.	G.M.	H.U.			H-4-24263
DATE:	SCALE SHOWN:	SPEC. NO. D.A.C.W.S.	DWG. NO.	19 OF 78	
			IHNC, WEST LEVEE, FLA. AVE TO IHNC LOCK - FLOODWALL		



TYPICAL T-TYPE WALLS

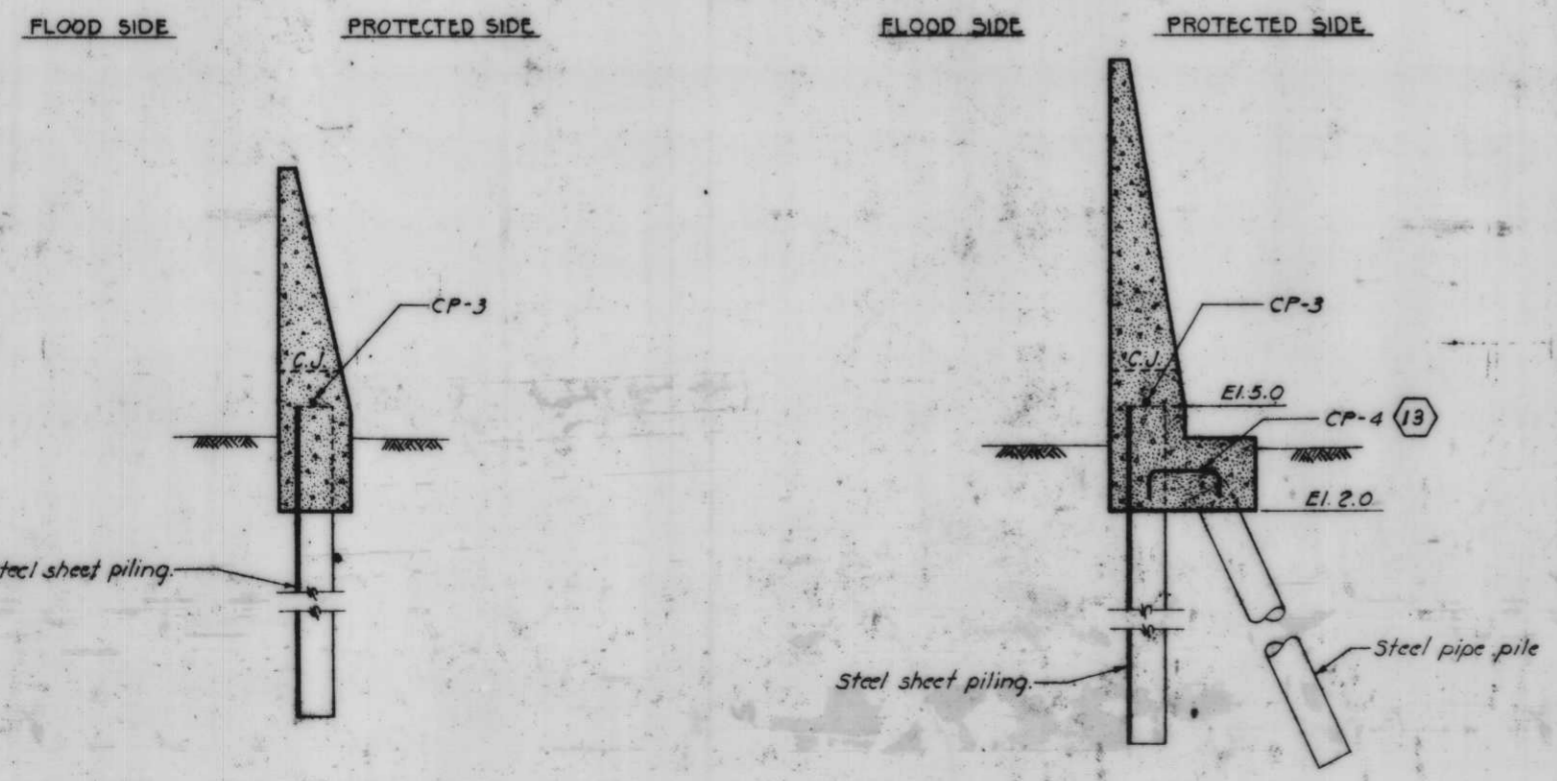
Scale: 3/8" = 1'-0"

LEGEND

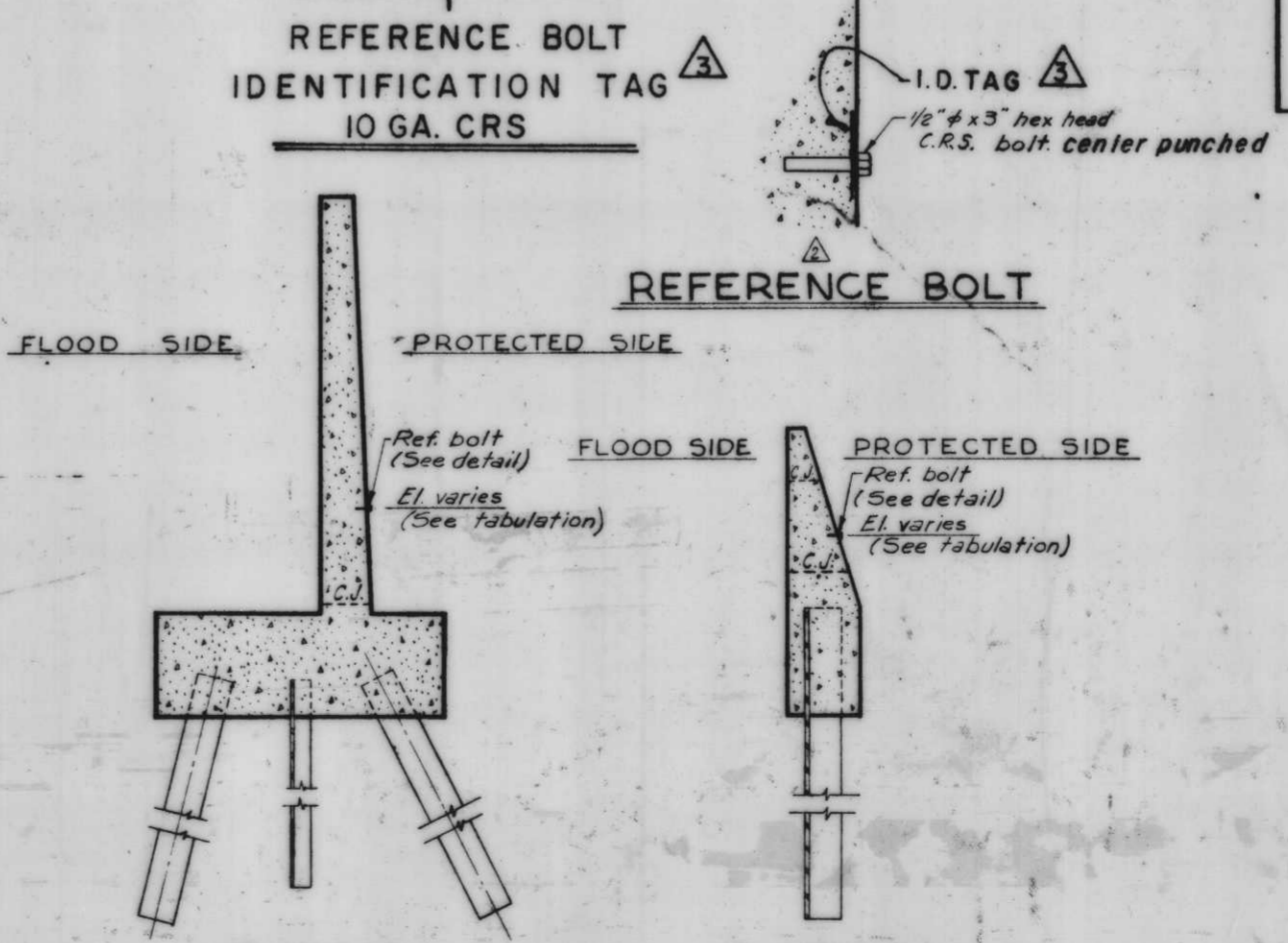
- CP-1 6" std. iron body trap screw ferrule w/ brass plug and counter-sunk nut. Location and elevation of ferrule as shown in the table.
- CP-2 No. 6 reinf. bar welded to sheet pile and terminated in the ferrule within 1/2" of the cover.
- CP-3 No. 6 reinf. bar welded to the top of each sheet pile. Install flexible jumpers at the expansion joints approximately 120 ft apart. Jumpers shall be No. 6 Awg. stranded 36 inch copperweld rail bond type, thermit welded to the sheet piles 6" below the pile cutoff and embedded in the concrete.
- CP-4 No. 6 reinf. bar welded to each pipe pile and the sheet pile wall.

TABULATION OF SETTLEMENT REF. BOLTS							
BOLT NO.	MONOLITH NO.	STATION	BOLT ELEV.	BOLT NO.	MONOLITH NO.	STATION	BOLT ELEV.
1	1	0+10	12.0	36	76	26+47	6.0
2	6	1+65	12.0	37	76	27+20	6.0
3	12	3+45	12.0	38	77	27+27	6.0
4	14	3+90	7.0	39	78	28+84	7.0
5	16	4+65	8.0	40	79	28+86	7.0
6	18	5+25	12.0	41	81	29+58	7.0
7	24	7+05	12.0	42	83	30+16	6.0
8	30	8+75	12.0			30+26.88*	
9	33	9+45	10.0			30+13.386*	
10	35	10+75	8.0	43	84	30+20	5.0
11	36	10+85	8.0	44	91	34+10	3.0
12	37	11+60	7.0	45	98	38+35	4.0
13	38	11+70	6.0	46	99	38+38	4.0
14	41	13+18	6.0	47	100	39+05	3.0
15	43	14+60	7.0	48	108	44+10	4.0
16	44	14+75	8.0	49	115	48+30	4.0
17	46	15+43	10.0	50	123	52+96	4.0
18	49	16+60	10.0	51	124	53+00	4.0
19	50	16+70	9.0	52	125	53+79	7.0
20	52	17+35	9.0	53	126	53+81	7.0
21	55	17+95	10.0	54	128	55+43	7.0
22	56	18+55	10.0	55	129	55+45	7.0
23	59	19+45	10.0	56	132	57+30	3.0
24	63	20+70	9.0	57	138	60+00	6.0
25	64	21+17	9.0	58	138	60+50	7.0
26	65	21+45	10.0	59	139	60+55	7.0
27	66	22+55	10.0	60	141	62+25	6.0
28	68	23+05	9.0	61	144	64+10	5.0
29	68	23+45	9.0	62	145	64+12	5.0
30	69	23+50	9.0	63	146	64+60	5.0
31	70	23+80	9.0	64	152	67+85	4.0
32	72	24+25	7.0	65	157	70+80	4.0
33	73	24+72	7.0	66	158	71+45	7.0
34	74	24+76	6.0	67	159	71+63	9.0
35	75	26+40	6.0	68	160	71+93	9.0
				69	161	72+23	9.0
				70	162	72+48	12.0

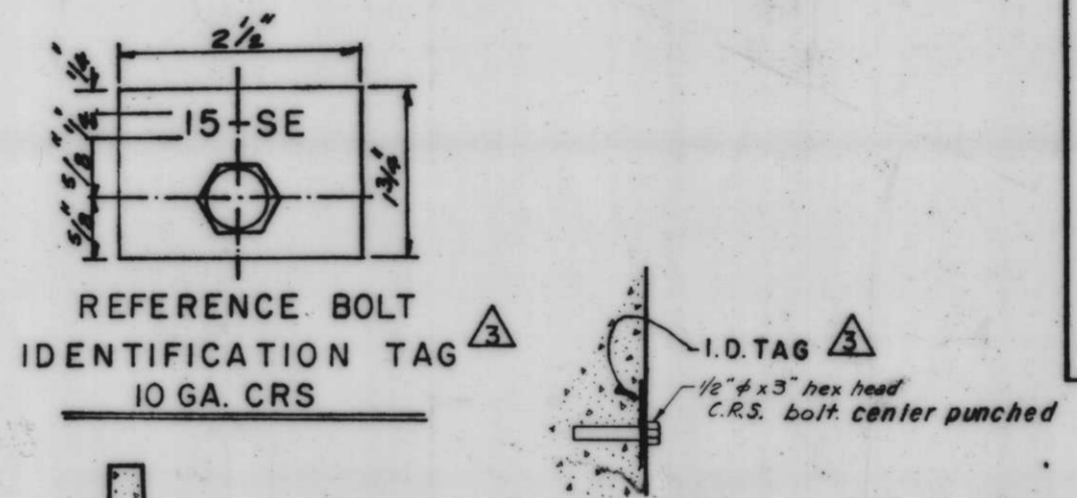
CORROSION PROTECTION T-WALL			
MONOLITH NO.	FERRULE LOCATION - STATION	ELEVATION	
		FLOOD SIDE	PROTECTED SIDE
15	4+10.0	-	+1.75
16	4+64.0	+1.75	-
33	9+49.0	-	+3.5
35	10+49.0	+3.5	-
37	11+49.0	-	+2.0
40	12+49.0	+3.5	-
42	13+49.0	-	+3.5
43	14+49.0	+3.5	-
49	16+17.0	-	+6.0
49	16+56.0	+6.0	-
55	18+32.0	-	+6.0
64	20+77.0	-	+6.5
68	23+42.0	-	+6.0
73	24+32.0	-	+3.0
85	30+70.0	-	+0.25
86	31+20.0	+0.25	-
88	32+20.0	-	+0.25
90	33+20.0	+0.25	-
91	34+20.0	-	+0.25
93	35+20.0	+0.25	-
95	36+20.0	-	+0.25
96	37+20.0	+0.25	-
98	38+20.0	-	+0.25
100	39+20.0	+0.25	-
102	40+20.0	-	+0.25
103	41+20.0	+0.25	-
105	42+20.0	-	+0.25
107	43+20.0	+0.25	-
108	44+20.0	-	+0.25
110	45+20.0	+0.25	-
112	46+20.0	-	+0.25
113	47+20.0	+0.25	-
115	48+20.0	-	+0.25
117	49+20.0	+0.25	-
118	50+20.0	-	+0.25
120	51+20.0	+0.25	-
122	52+20.0	-	+0.25
123	52+95.0	+0.25	-
126	54+00.0	+3.0	-
126	54+20.0	-	+3.0
129	55+20.0	+3.0	-
130	56+20.0	-	+3.0
132	57+20.0	+3.0	-
134	58+20.0	-	+3.0
135	59+20.0	+3.0	-
138	60+10.0	-	+3.0
140	61+20.0	+3.0	-
141	62+20.0	-	+3.0
143	63+20.0	+2.0	-
145	64+20.0	-	+2.0
148	65+20.0	+0.25	-
149	66+20.0	-	+0.25
151	67+20.0	+0.25	-
153	68+20.0	-	+0.25
154	69+20.0	+0.25	-
156	70+18.0	-	+0.25
158	71+30.0	+0.5	-



TYPICAL I-TYPE WALLS
Scale: 3/8" = 1'-0"
CORROSION PROTECTION



T-WALL
Scale: 3/8" = 1'-0"
I-WALL
Scale: 3/8" = 1'-0"
SETTLEMENT REFERENCE BOLTS

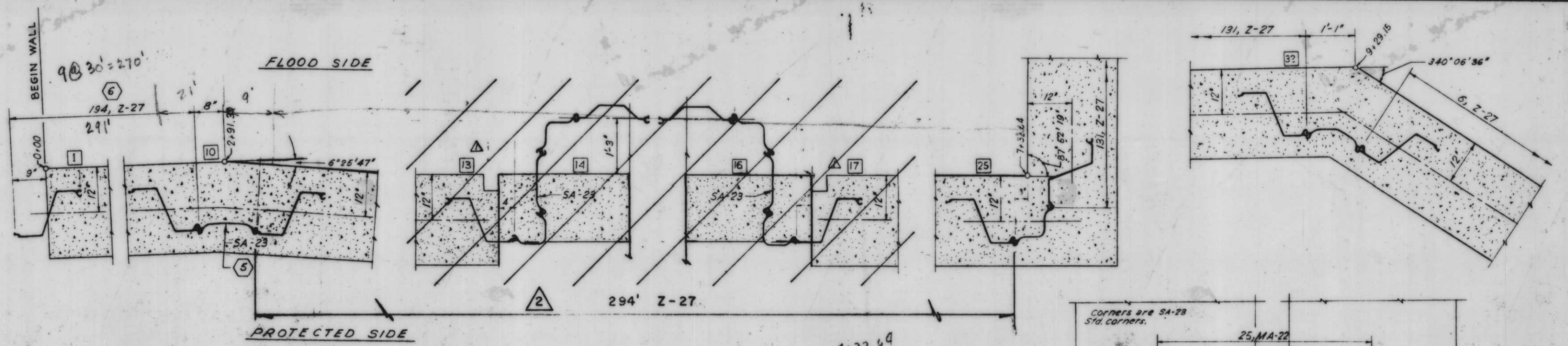


REFERENCE BOLT IDENTIFICATION TAG
10 GA. CRS
REFERENCE BOLT

Notes:
See Dwg. No. 15 for sheet piling to be coated.
See Dwg. No. 30 for steel pipe piling to be coated.
Reinforcing bars will be paid for at the contract price for Item No. (13), "Steel Reinforcement."
Ferrules and flexible jumpers will be paid for at the contract price for Item No. (18), "Miscellaneous Metalwork."
Reference bolts will be paid for at the contract price for item No. (18), "Miscellaneous Metalwork."

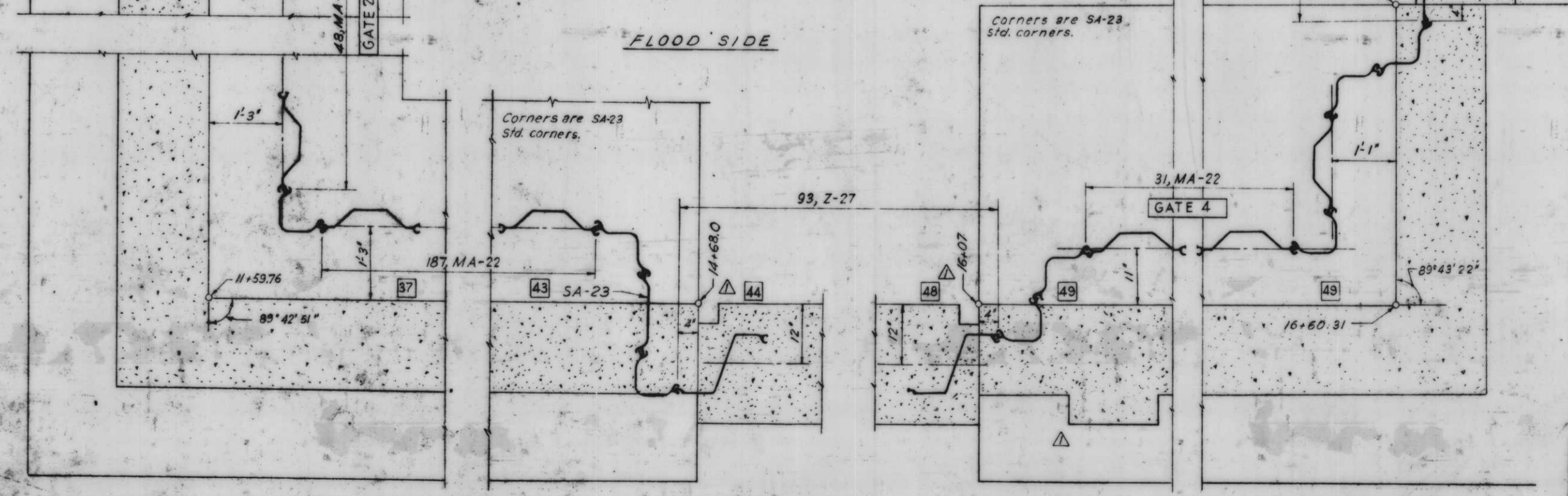
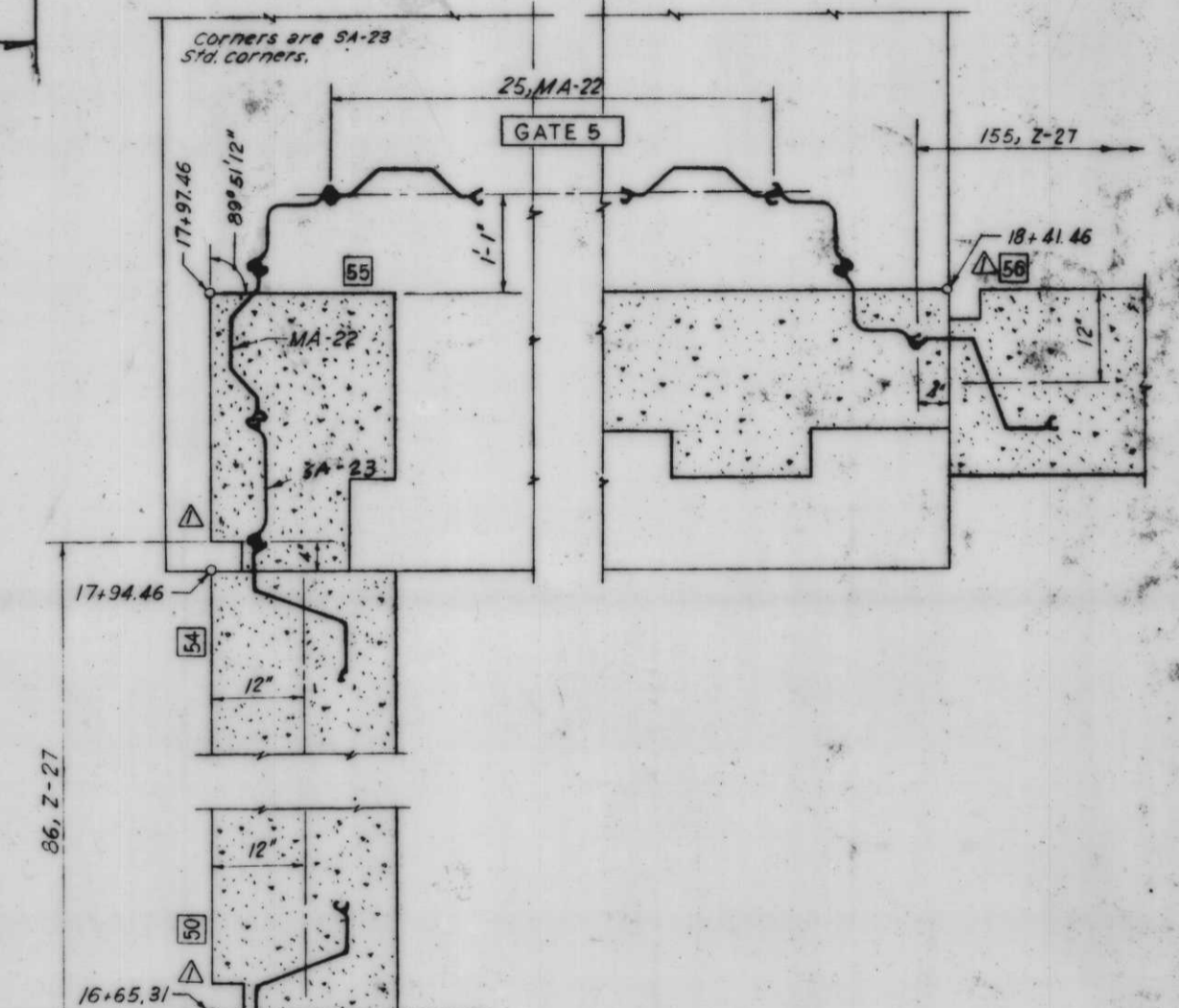
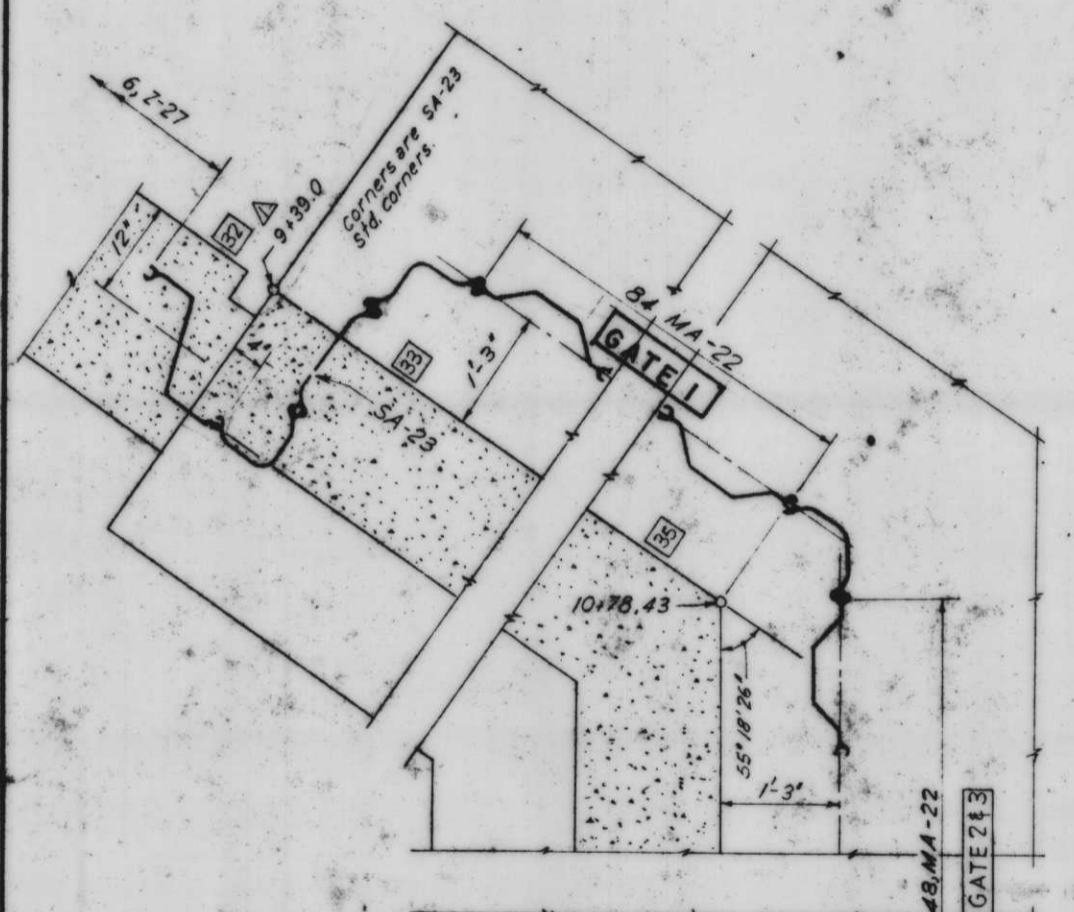
DESIGNED:	DRAWN:	CHECKED:	CODE IDENT. NO.	SIZE	FILE NO.
G.P.J.	J.J.P.	G.P.J.			
H-4-24263					
DATE:	SCALE: SHOWN	SPEC. NO. DACTWR	DWS NO. 20 OF 78		
			IHNC, WEST LEVEE, FLA. AVE. TO IHNC LOCK - FLOODWALL		

CORROSION PROTECTION AND REFERENCE BOLTS



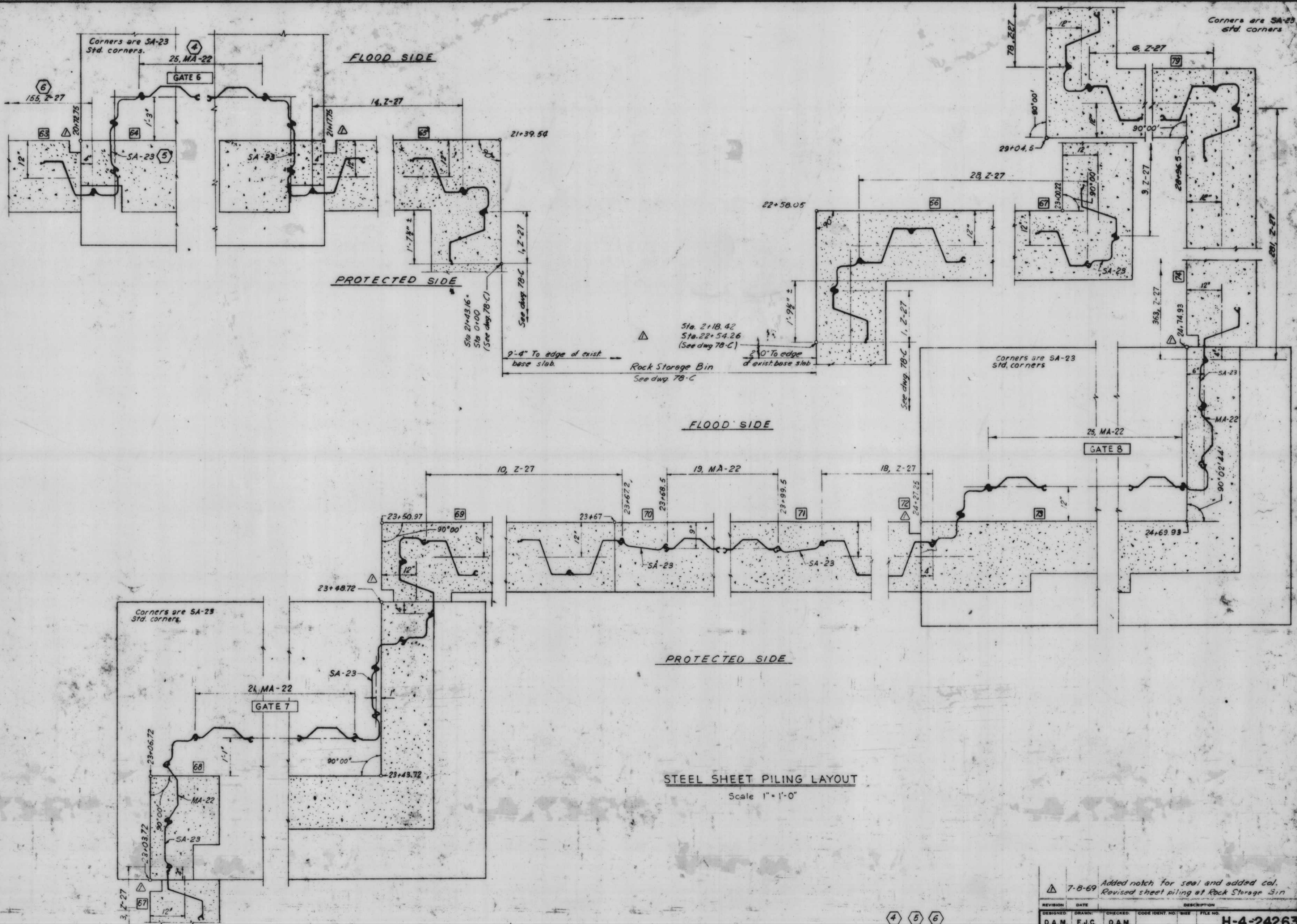
7+32.69
2+91.39
4+41.25

STEEL SHEET PILING LAYOUT
Scale 1"=1'-0"



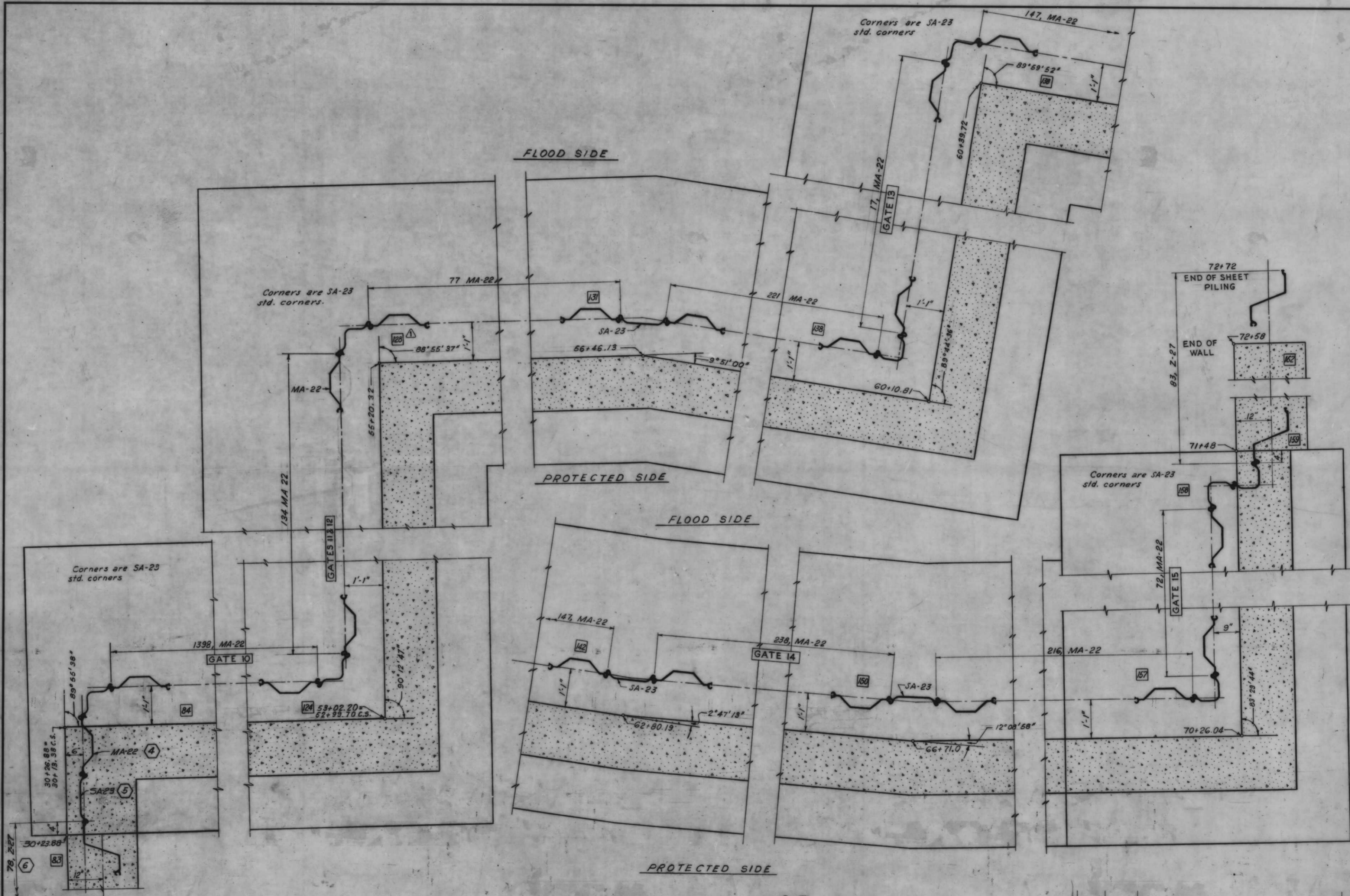
STEEL SHEET PILING LAYOUT

8-9-69	REVISED I-WALL STA 291.39 TO 732.64	
7-5-69	Added notch for seal & add col.	(VOID)
DESIGNED	DATE	DESCRIPTION
D.A.M.	E.J.C.	D.A.M.
SCALE: SHOWN	SPEC. NO. BACWS-	DWG. NO. 21



REVISION	DATE	CHECKED	CODE IDENT. NO.	SIZE	FILE NO.
DESIGNED	D.A.M.	DRAWN	E.J.C.	D.A.M.	H-4-24263
7-8-69 Added notch for seal and added col. Revised sheet piling at Rock Storage Bin.					
DATE	SCALE SHOWN	SPEC. NO. D.A.M.	D.W.G. NO. 22 OF 78		

4 5 6
STEEL SHEET PILING LAYOUT

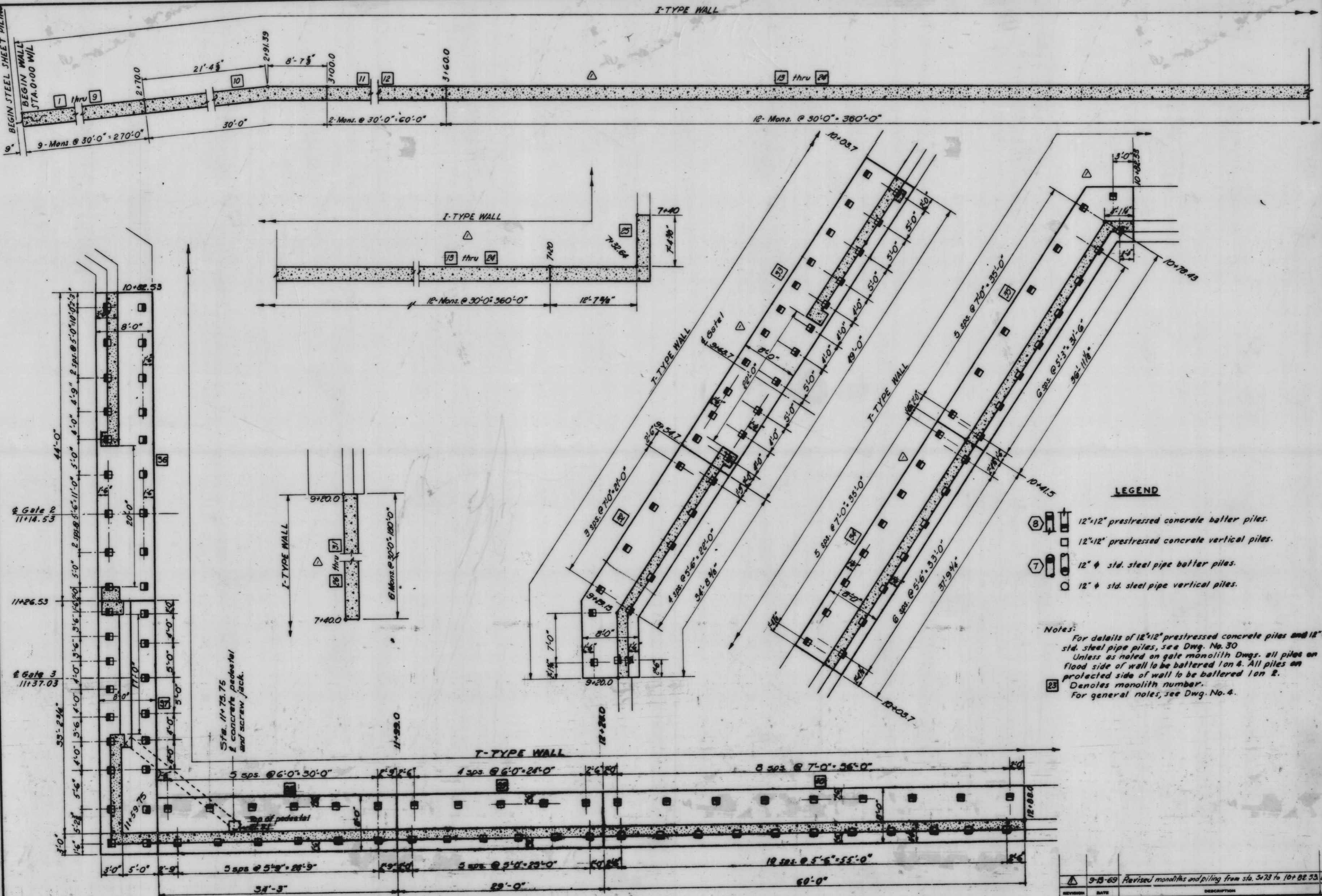


STEEL SHEET PILING LAYOUT
Scale 1"=1'-0"

AS CONSTRUCTED

STEEL SHEET PILING LAYOUT

DESIGNED:	D.A.M.	DRAWN:	D.J.H.	CHECKED:	D.A.M.	CODE IDENT. NO.:	SIZE:	FILE NO.:	H-4-24263
DATE:		SCALE: SHOWN:		SPEC. NO. DACW23:		DWG. NO. 23	78	IHNC, WEST LEVEE, FLA. AVE. TO IHNC LOCK - FLOODWALL	



LEGEND

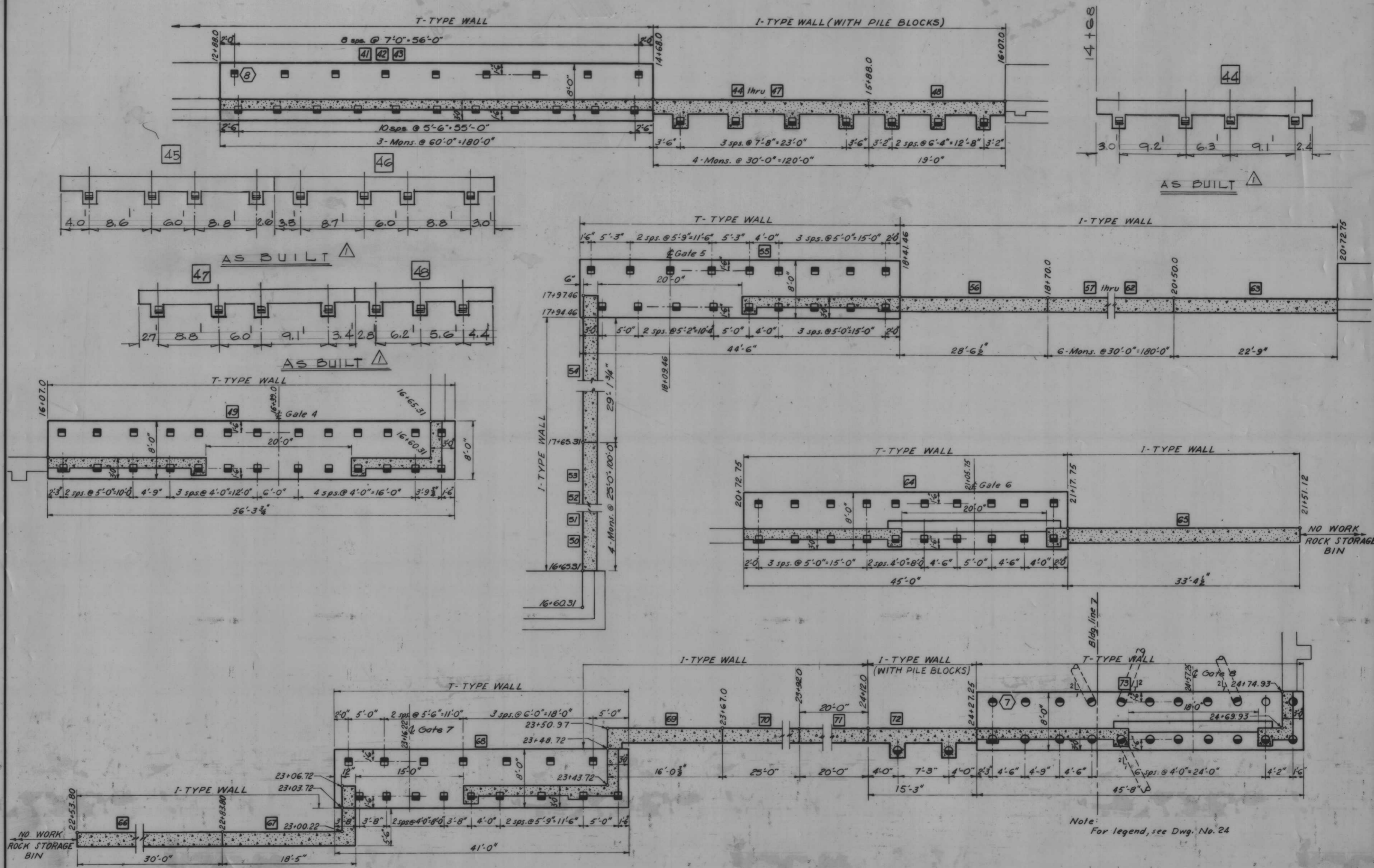
- ⑧ 12"x12" prestressed concrete batter piles.
- 12"x12" prestressed concrete vertical piles.
- ⑦ 12" std. steel pipe batter piles.
- 12" std. steel pipe vertical piles.

Notes:
 For details of 12"x12" prestressed concrete piles and 12" std. steel pipe piles, see Dwg. No. 30
 Unless as noted on gate monolith Dwg., all piles on flood side of wall to be battered 1 on 4. All piles on protected side of wall to be battered 1 on 2.
 ②③ Denotes monolith number.
 For general notes, see Dwg. No. 4.

PLAN
 Scale: 1" = 5'

PILING AND MONOLITH LAYOUT

REVISION	DATE	DESCRIPTION	BY
①	9-13-69	Revised monoliths and piling from sta. 3+73 to 10+82.53 B.M.D.	
DRAWN	CHECKED	CODE IDENT. NO.	FILE NO.
C.W.R.	D.A.H.	D.A.M.	H-4-24263
DATE	SCALE SHOWN	SPEC. NO. DRAWN	SHEET NO. 24 OF 78



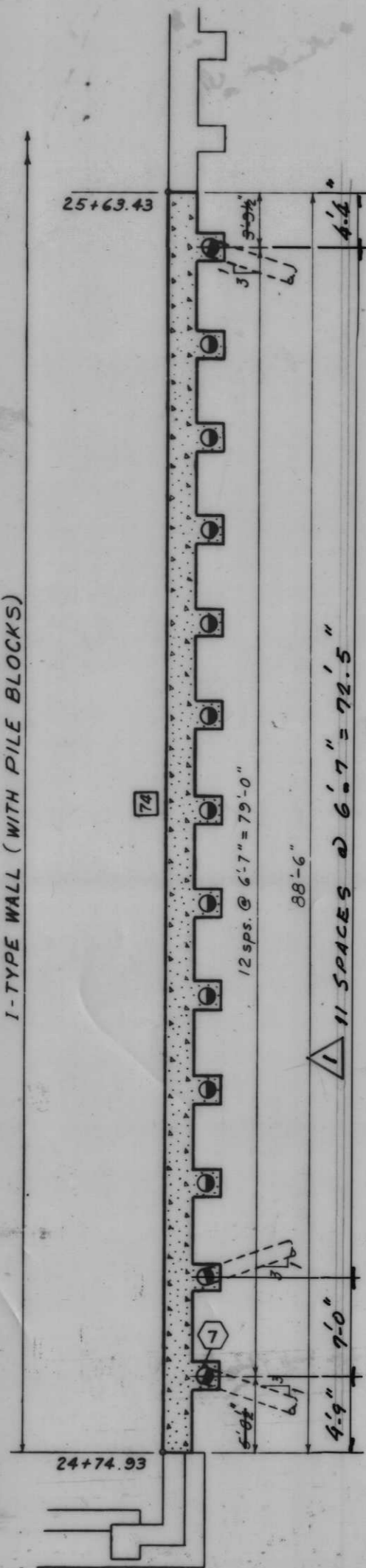
PLAN
Scale 1" = 5'

AS CONSTRUCTED

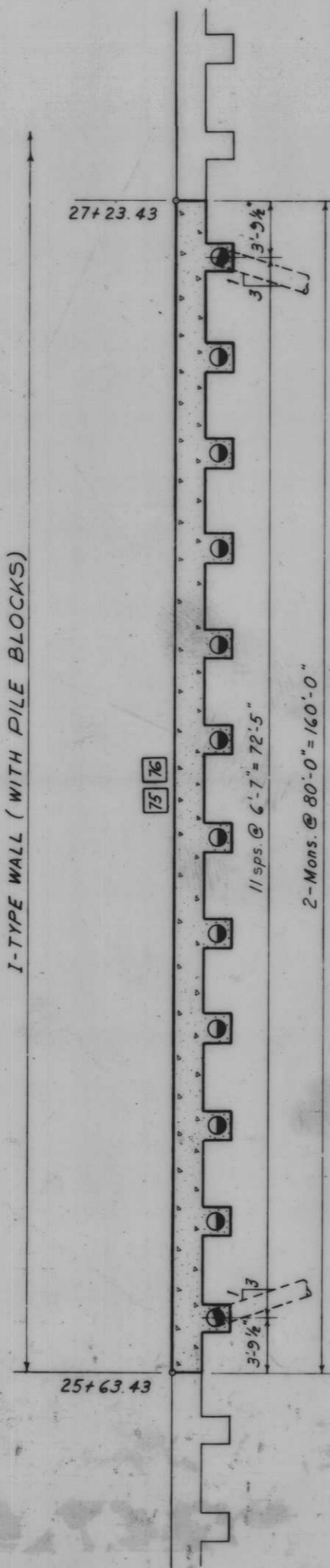
7 8
PILING AND MONOLITH LAYOUT

REVISION		DATE	DESCRIPTION		BY
42472			REVISE PILE LOCATIONS MONS 44 THRU 48		
DESIGNED	DRAWN	CHECKED	CODE IDENT. NO.	SIZE	FILE NO.
C.W.R.	D.J.H.	D.A.M.			H-4-24263
DATE	SCALE SHOWN	SPEC. NO. DACTER	Dwg. No. 25 of 78		

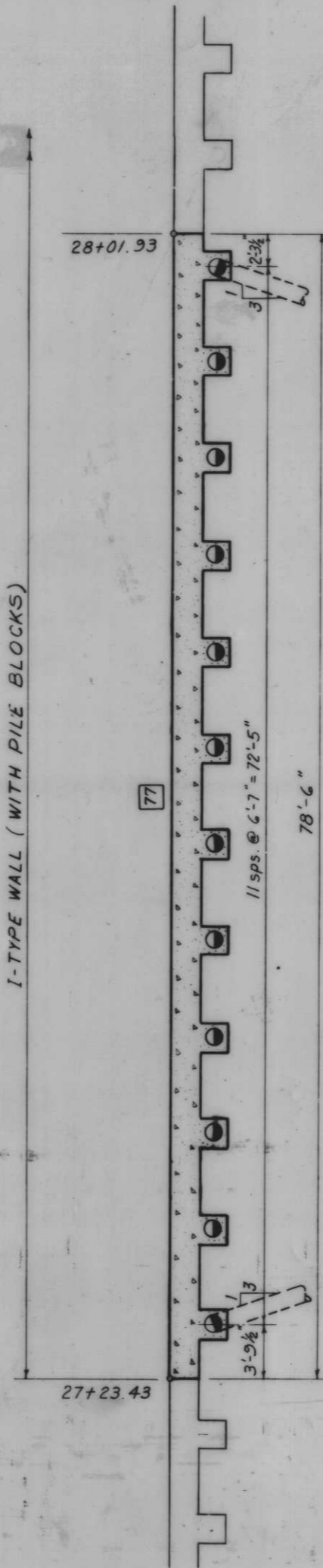
I-TYPE WALL (WITH PILE BLOCKS)



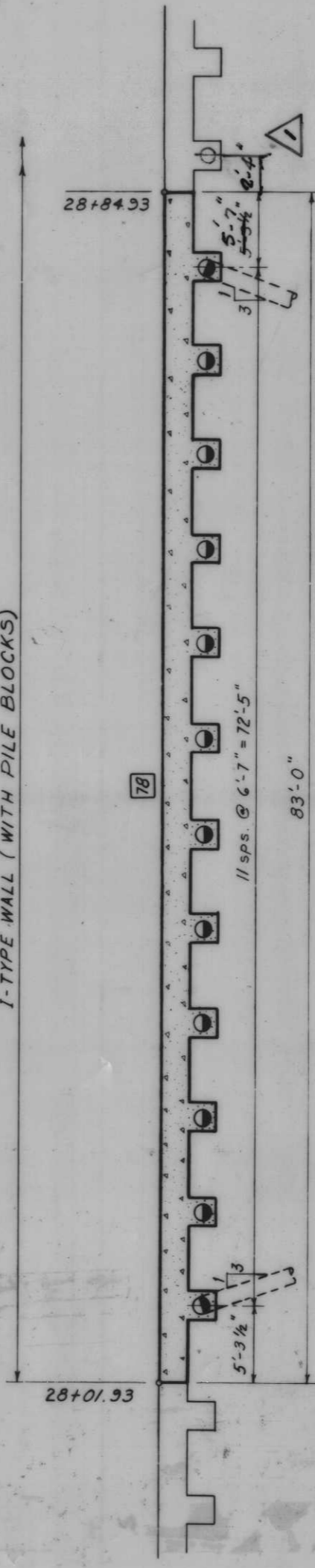
I-TYPE WALL (WITH PILE BLOCKS)



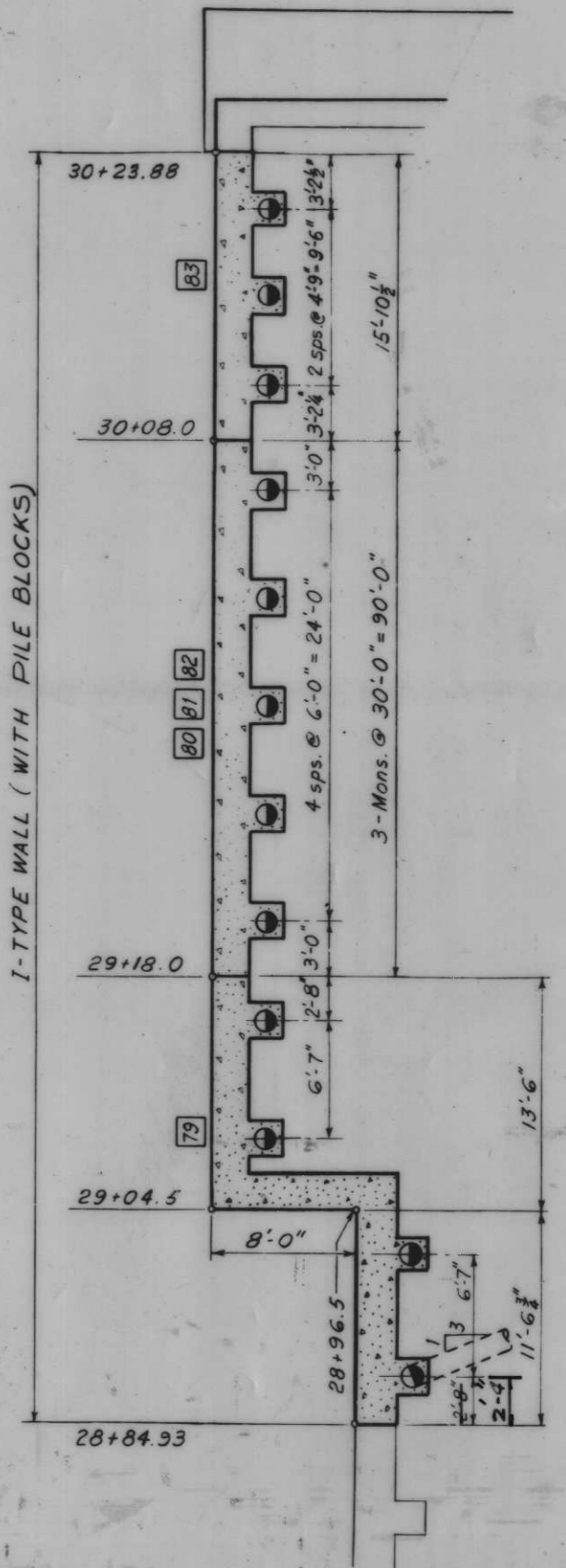
I-TYPE WALL (WITH PILE BLOCKS)



I-TYPE WALL (WITH PILE BLOCKS)



I-TYPE WALL (WITH PILE BLOCKS)



PLAN
Scale: 1" = 5'

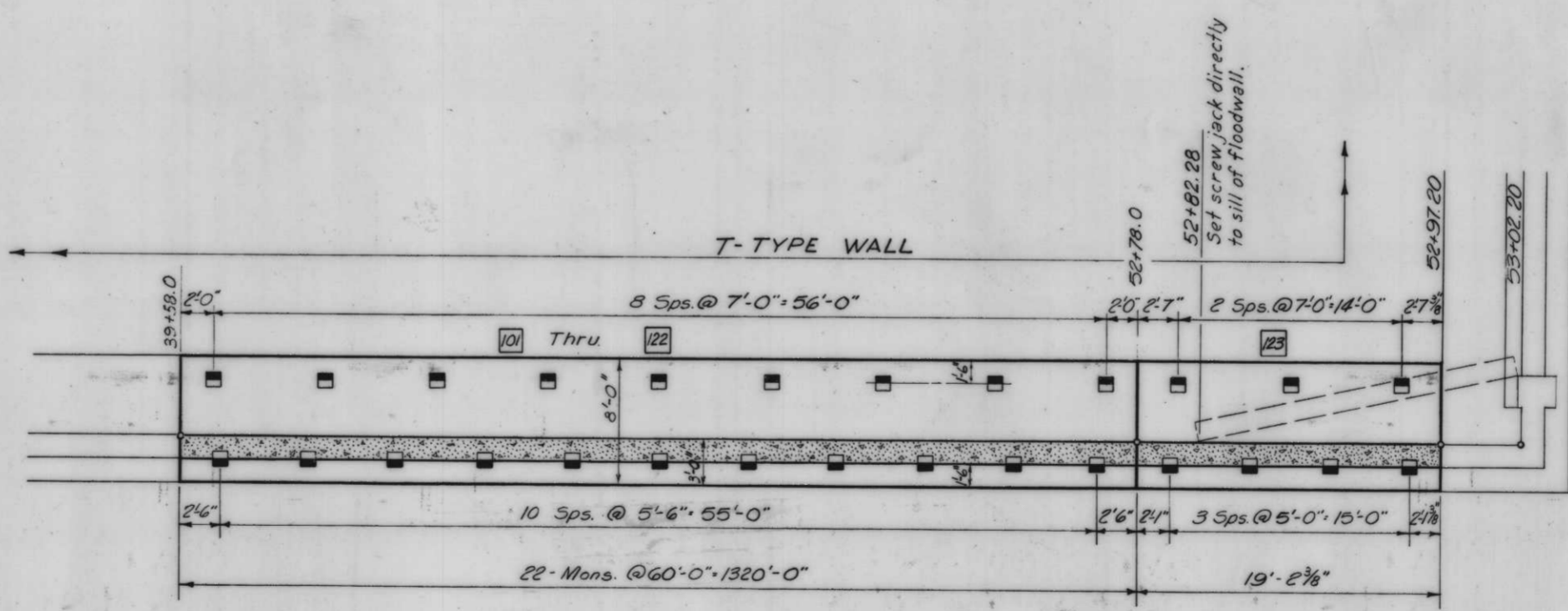
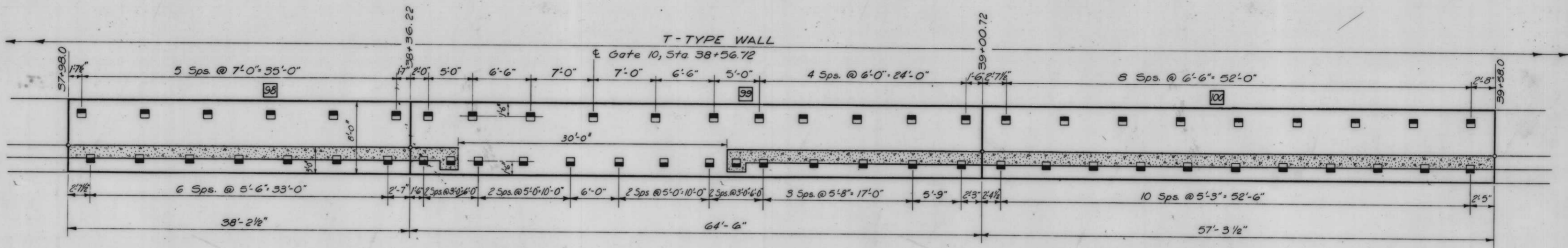
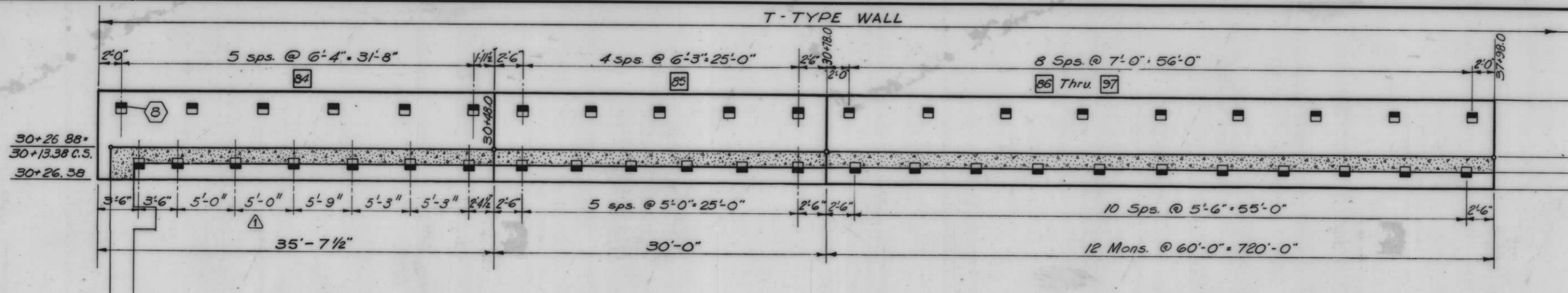
AS CONSTRUCTED

PILING AND MONOLITH LAYOUT

Note:
For legend, see Dwg. No. 24.
For all skewed piles on this Dwg.
axial batter is 1:2.5

REVISION	DATE	DESCRIPTION	BY
1	1/24/70	REVISED PILE LOCATION	

DESIGNED:	DRAWN:	CHECKED:	CODE IDENT. NO.	SIZE	FILE NO.
C.W.R.	G.M.	D.A.M.			H-4-24263
DATE:	SCALE: SHOWN	SPEC. NO. DACTAB.	DWG. NO. 26 OF 78		



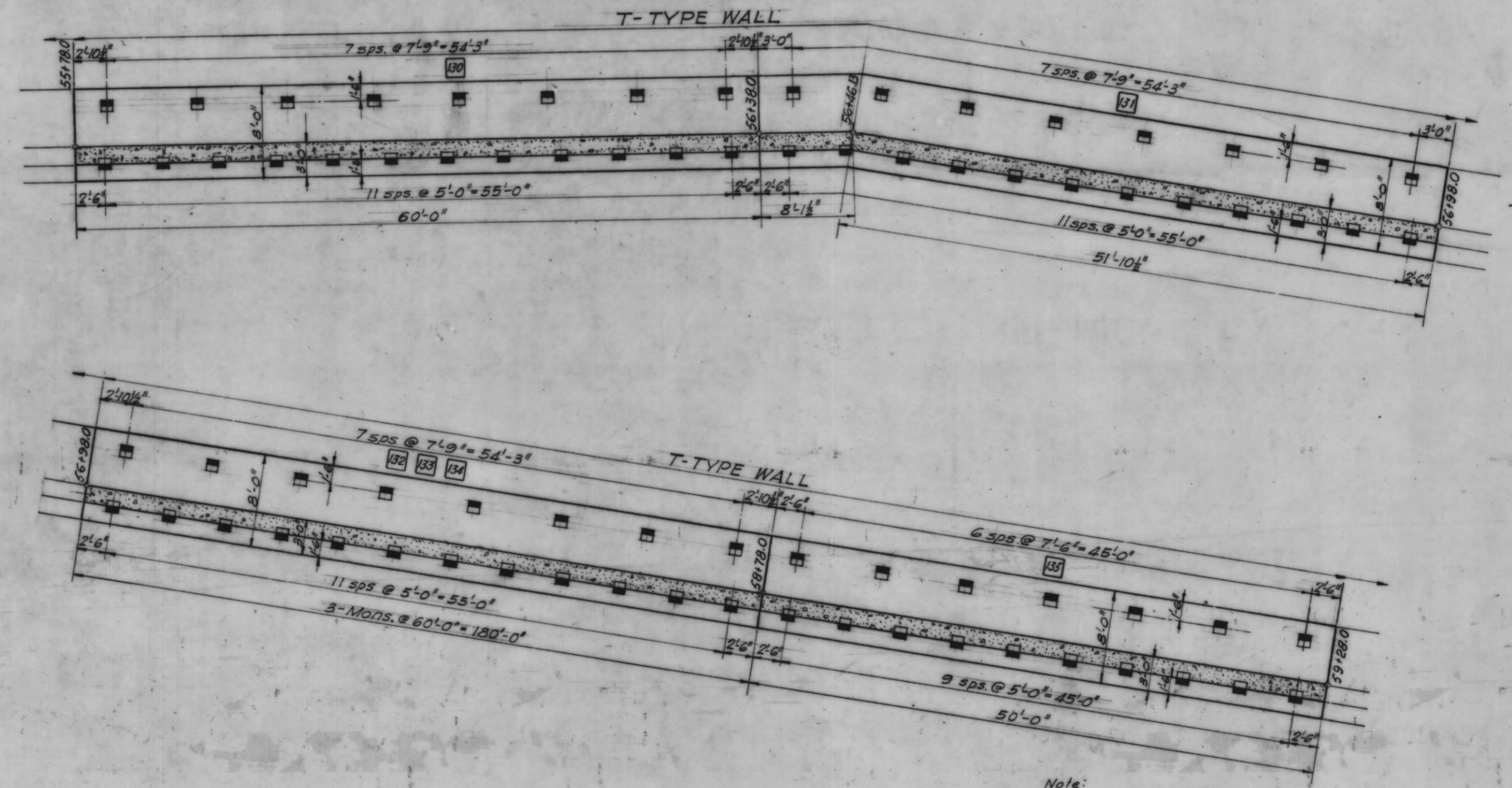
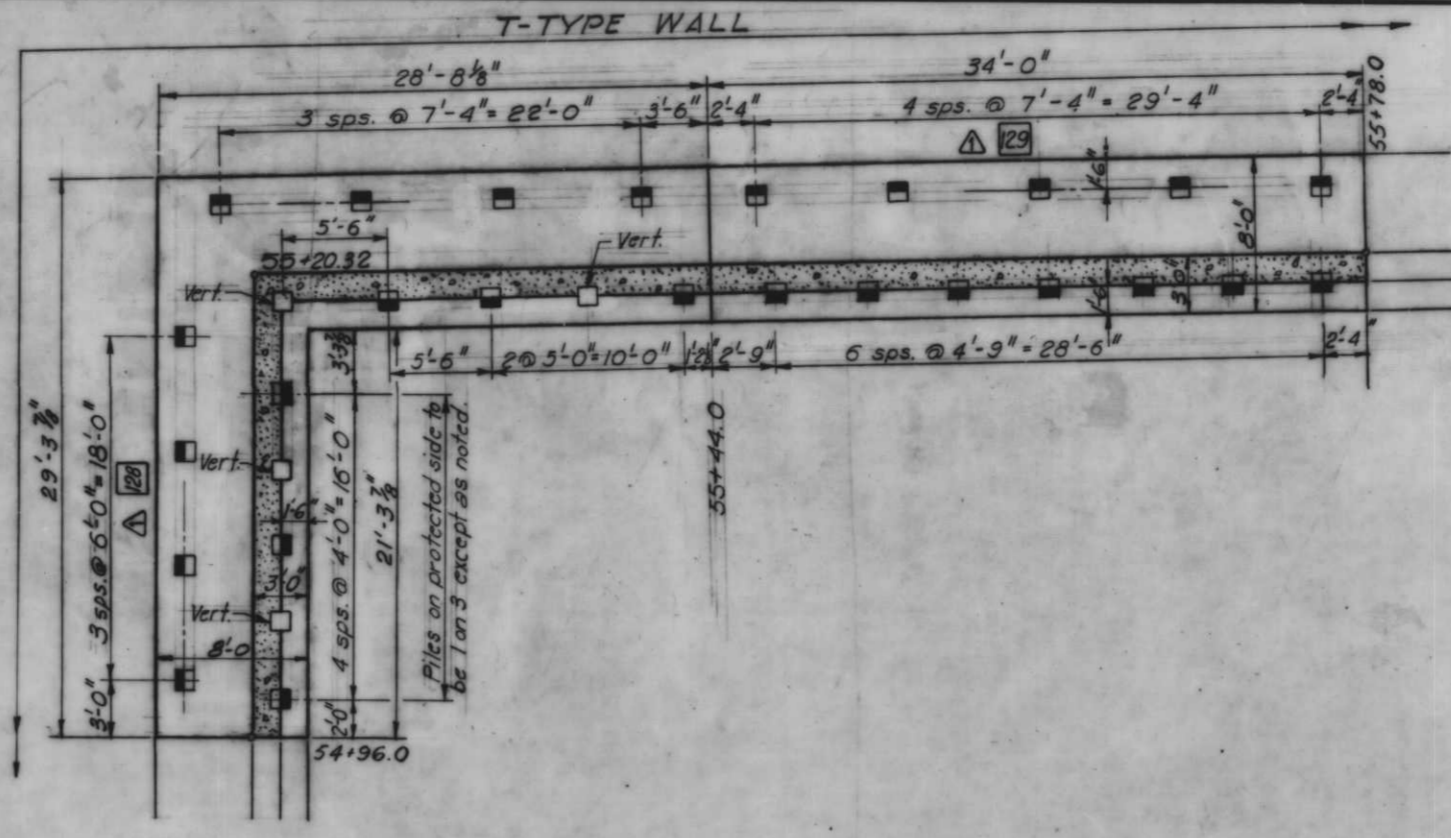
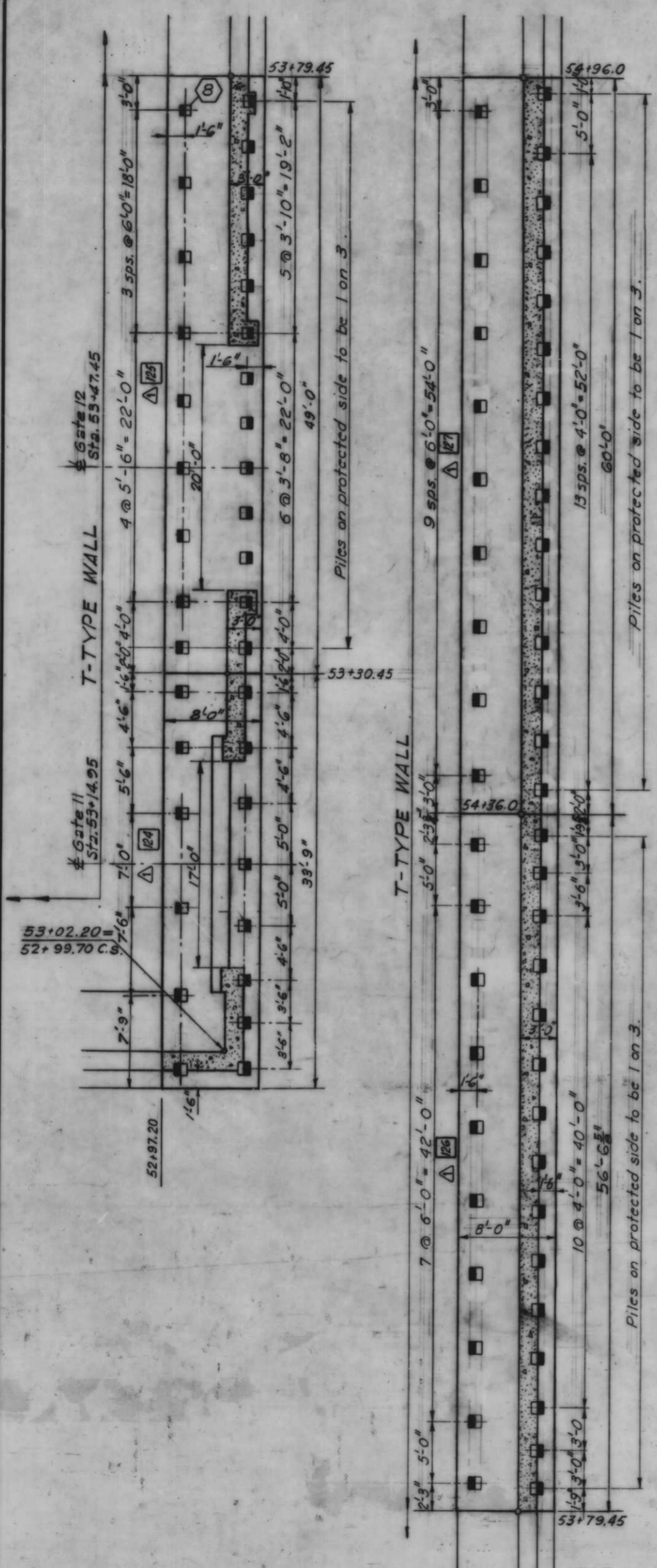
PLAN
Scale: 1" = 5'

Note:
For legend, see Dwg. No. 24

AS CONSTRUCTED

PILING AND MONOLITH LAYOUT

DESIGNED: C.W.R.		DRAWN: J.J.P.		CHECKED: D.A.M.		DATE:	
REVISION: 12-68		DATE:		DESCRIPTION: Revised pile spacing on monolith 84		BY: J.J.P.	
H-4-24263				Dwg. No. 27 of 78			



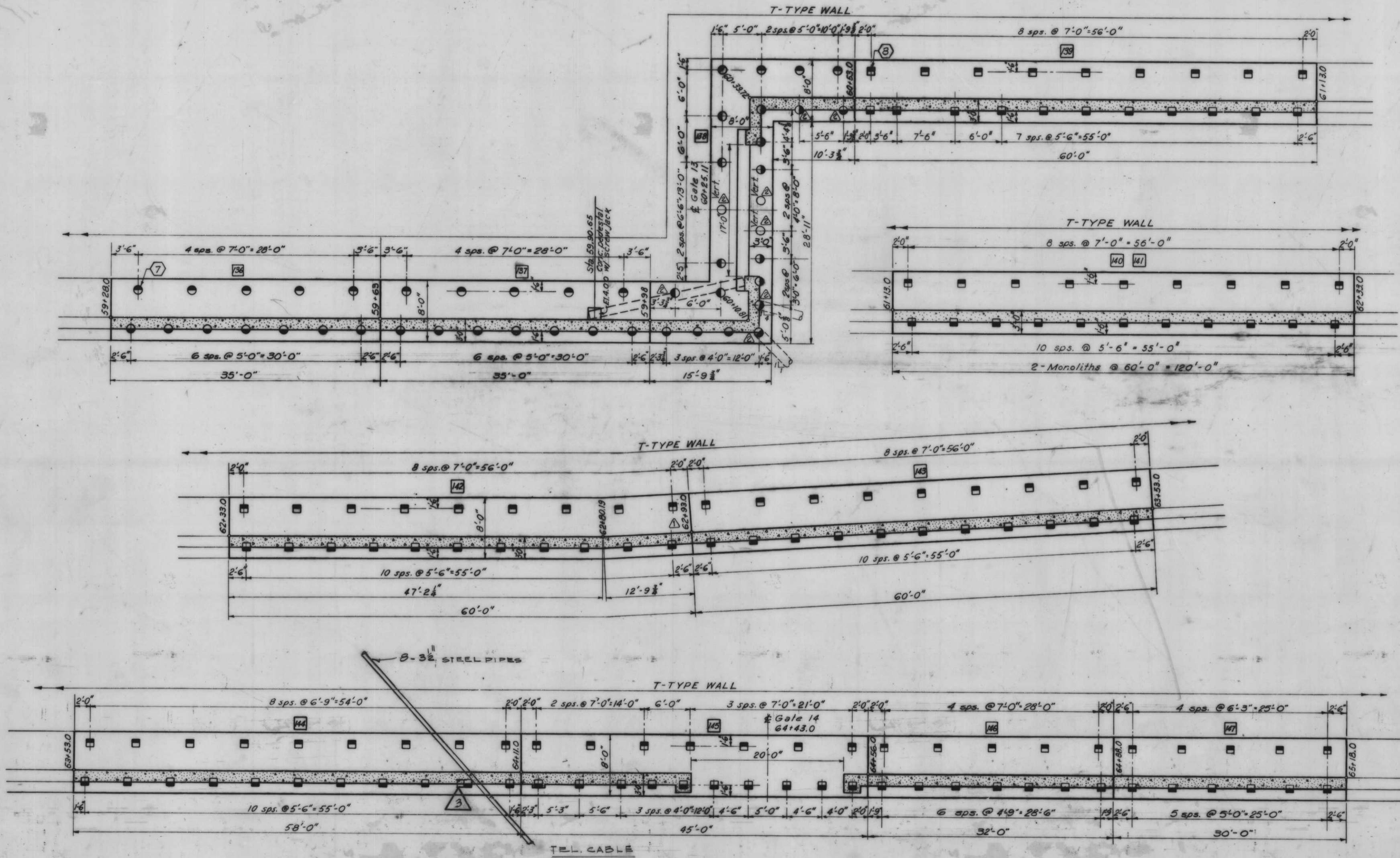
Note:
For legend, see Dwg. No. 24.

AS CONSTRUCTED

PLAN
Scale 1" = 5'

PILING AND MONOLITH LAYOUT

DESIGNED: C.W.R.	DRAWN: H.H.	CHECKED: D.A.M.	CODE IDENT. NO.	SIZE	FILE NO.	DATE	SCALE SHOWN	SPEC. NO. BACKS	DWG. NO. 28 OF 78	
							12-68	Revised pile spacings and monoliths 128 & 129	JUP	
							H-4-24263			



PLAN
Scale: 1" = 5'

Note:
For legend, see Dwg. No. 24

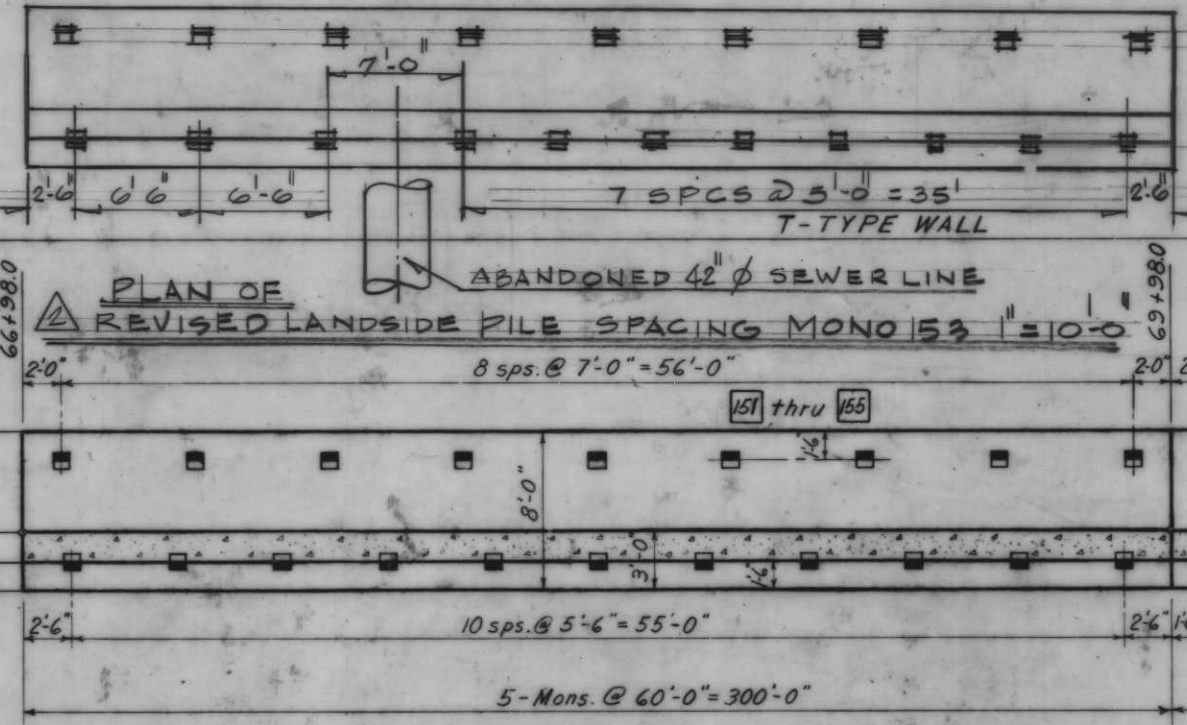
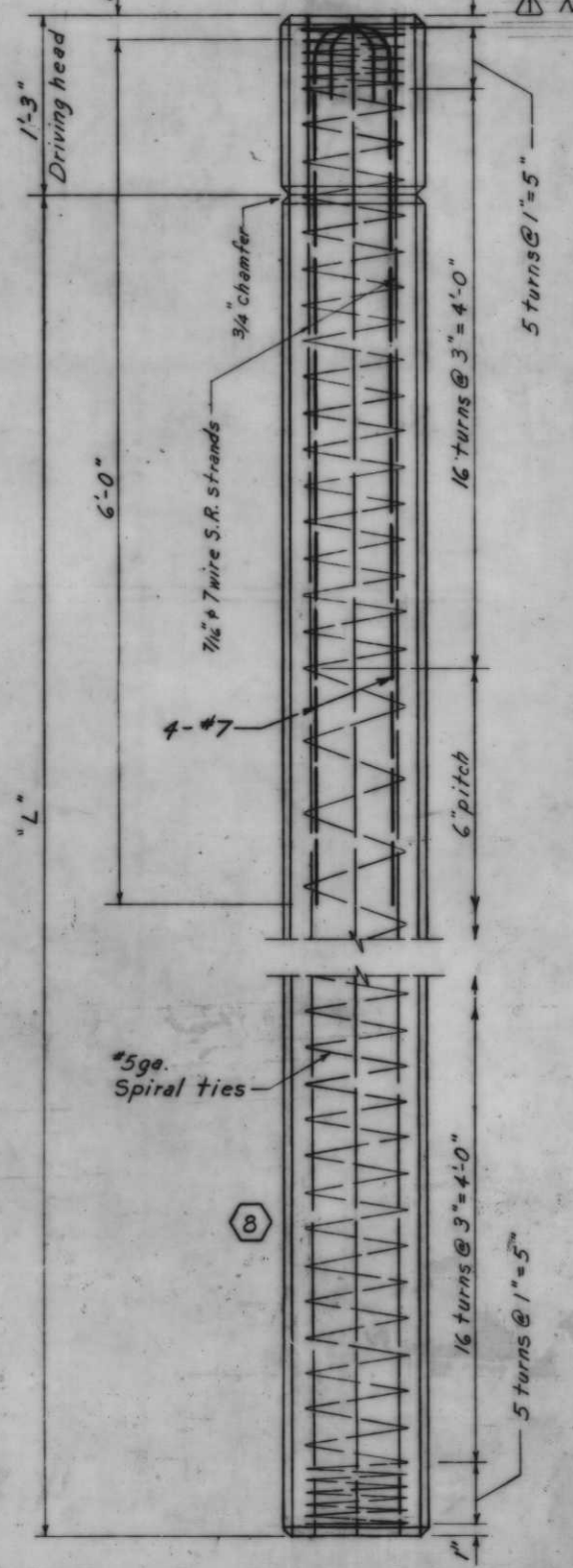
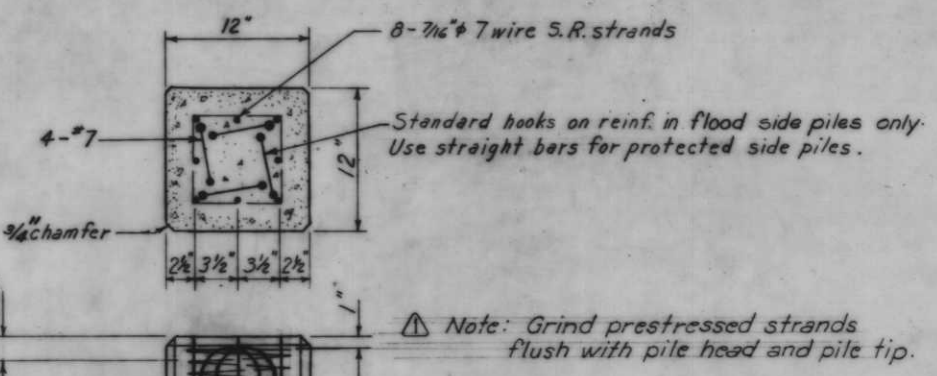
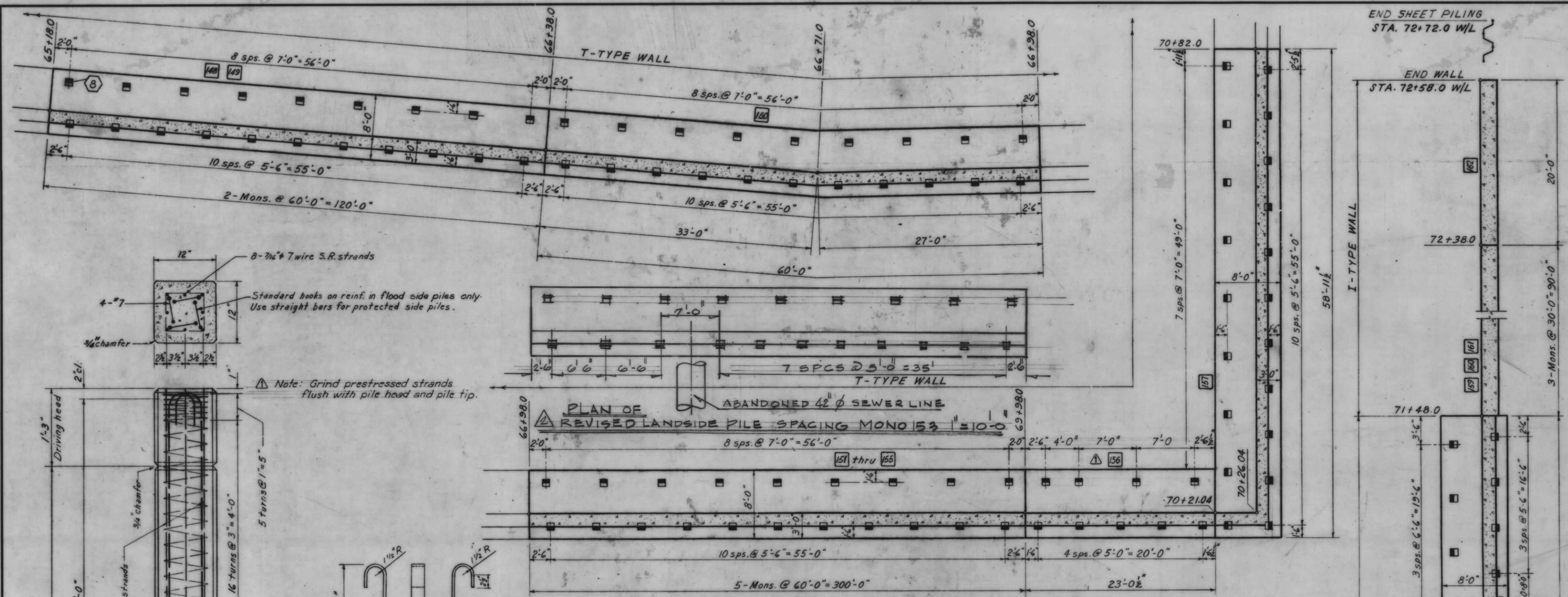
AS CONSTRUCTED

PILING AND MONOLITH LAYOUT

1.2.72 SHIFTED PILE 12 FOR TEL PIPE
12-68 Revised piling in monos. 138 and 139
10-1-68 Corrected sta. 62+93.0 from 63+93.

DESIGNER	DATE	CHECKED	CODE IDENT. NO.	SIZE	FILE NO.	BY
C.W.R.	D.J.H.	D.A.M.				

H-4-24263



PLAN
Scale: 1" = 10'-0"

CONCRETE PILES

Monolith No.	Protected Side		Flood Side		Remarks	Monolith No.	Protected Side		Flood Side		Remarks
	Len.	Tip El.	Len.	Tip El.			Len.	Tip El.	Len.	Tip El.	
14	60'	-52.92	55'	-52.61		125	75'	-63.73	75'	-69.41	See Dwg. 12
15	60'	-52.92	55'	-52.61	See Dwg. 5	126	75'	-63.98	75'	-69.66	See Dwg. 12
16; 33-35; 38-43	60'	-52.67	55'	-52.36		139	70'	-60.93	75'	-71.08	See Dwg. 13
44-48	60'	-51.92				144	70'	-61.36	75'	-71.51	See Dwg. 13
49	65'	-53.14	60'	-53.21	See Dwg. 6	145	70'	-61.36	75'	-71.51	See Dwg. 13
55	65'	-52.14	60'	-52.21	See Dwg. 7	146-147	65'	-56.64	60'	-56.71	See Dwg. 13
64	65'	-53.06	60'	-53.13		148-156	65'	-58.89	60'	-58.96	
68	65'	-52.64	60'	-52.71	See Dwg. 7	157	65'	-58.89	60'	-58.96	See Dwg. 14
84-98; 101-123; 127-135; 140-143	70'	-63.96	75'	-73.51		158	65'	-58.64	60'	-58.71	See Dwg. 14
99	70'	-62.61	75'	-72.95	See Dwg. 10						
100	70'	-63.05	75'	-73.20							
124	70'	-63.53	75'	-73.68	See Dwg. 12						

Note: For pile lengths & tip elevations for Mono. 36, see Secs. A-A, B-B, C-C & G-G on Dwg. 40#41

STEEL PIPE PILES

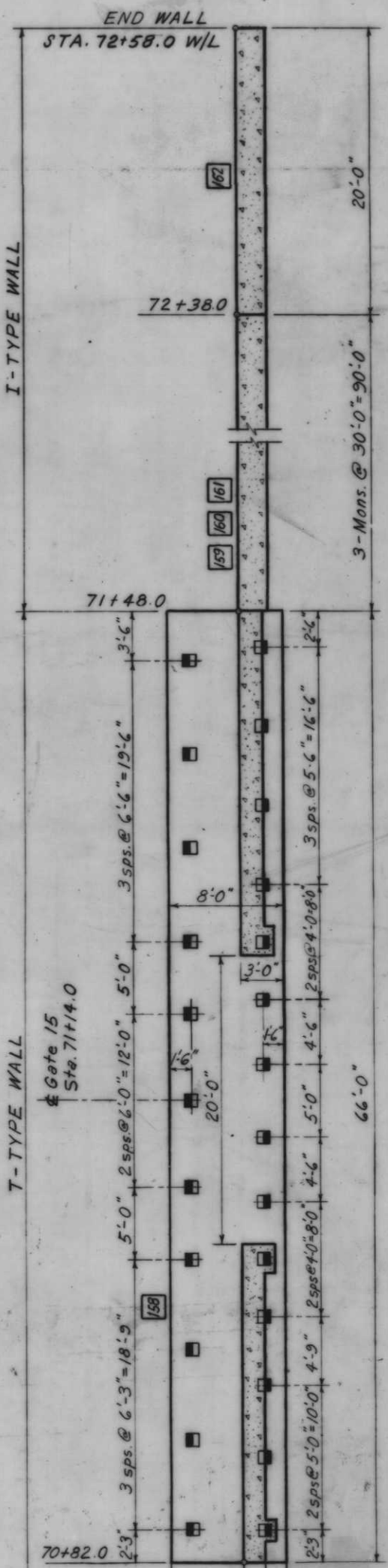
Monolith No.	1:2		1:4		Remarks
	Len.	Tip El.	Len.	Tip El.	
72	60'	-50.92			
73	60'	-53.04	60'	-57.58	
74-83	60'	-50.92			
136-137	75'	-67.83	75'	-73.51	See Dwg. 13
138	75'	-65.40	75'	-71.08	

Note: The exterior of all steel pipe piles shall be coated with 20 mils of coal tar epoxy. The coating shall be applied 6 inches below the top of the pile and extend 12-feet down the pile.

Note: For legend, see Dwg. No. 24. For general notes see Dwg. No. 4.

AS CONSTRUCTED

PILING AND MONOLITH LAYOUT



CONCRETE PILE

FLOOD SIDE PILE

PROTECTED SIDE PILE

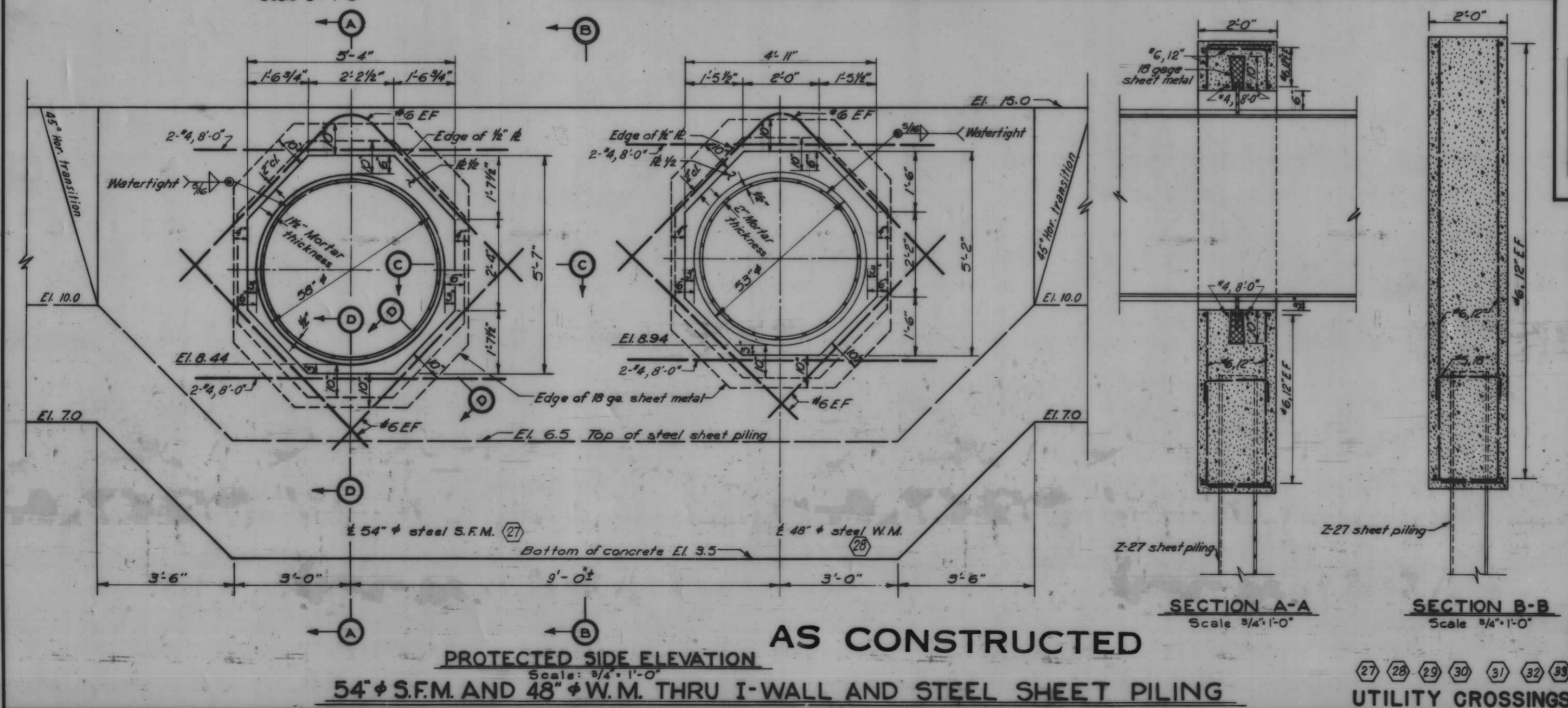
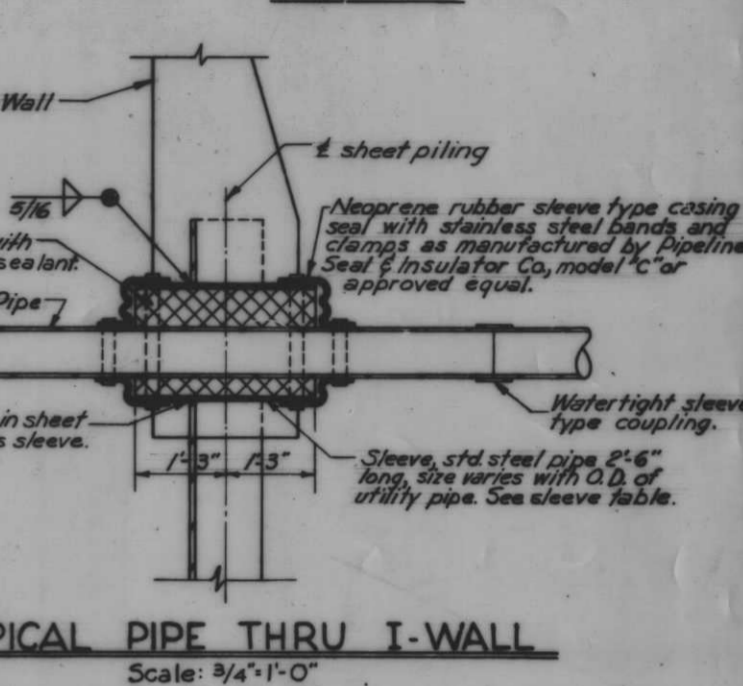
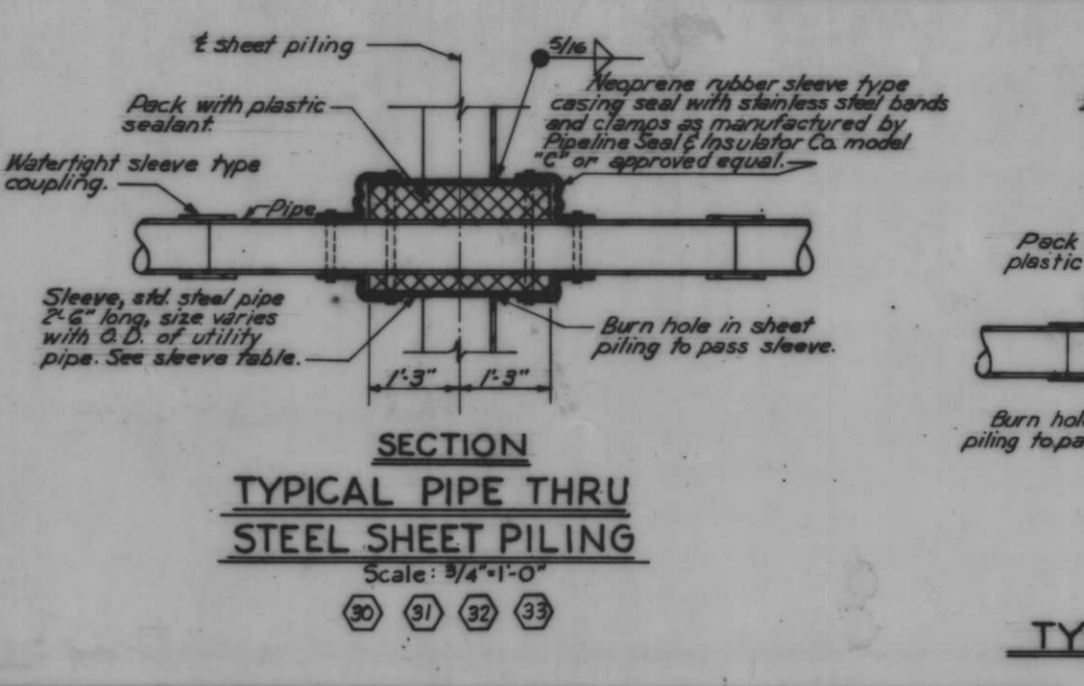
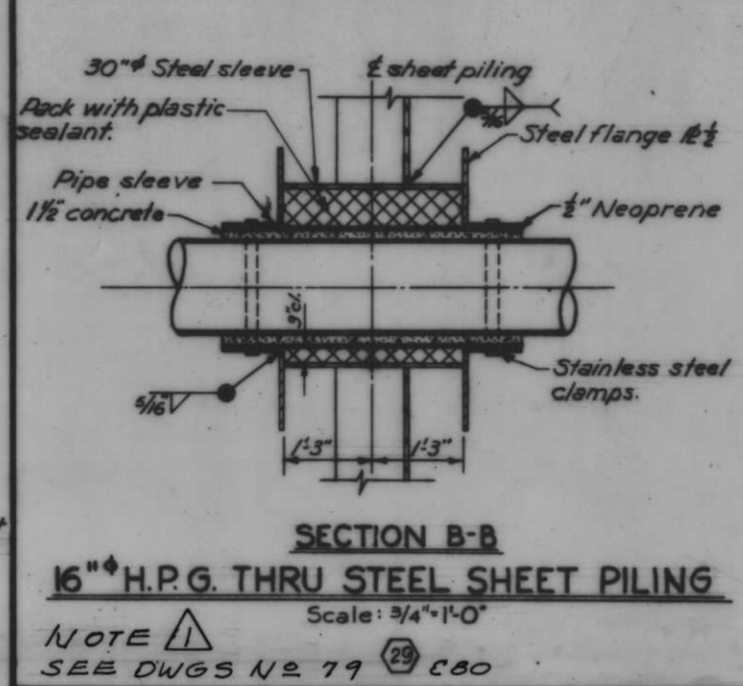
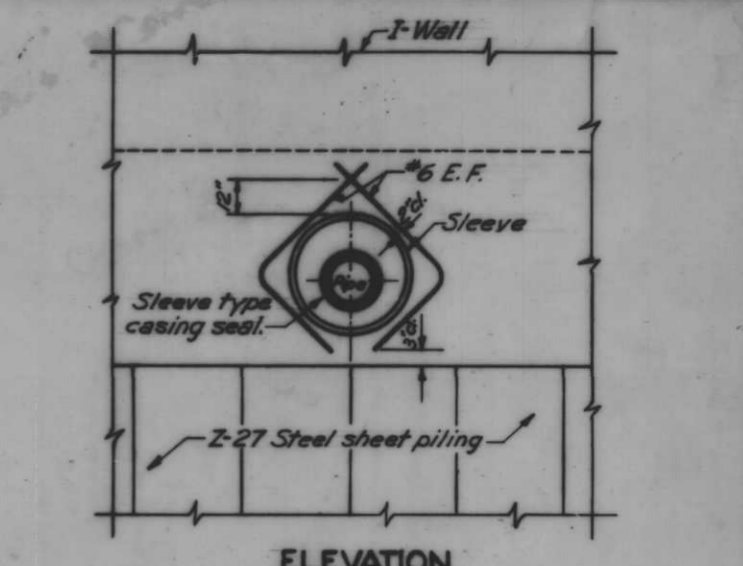
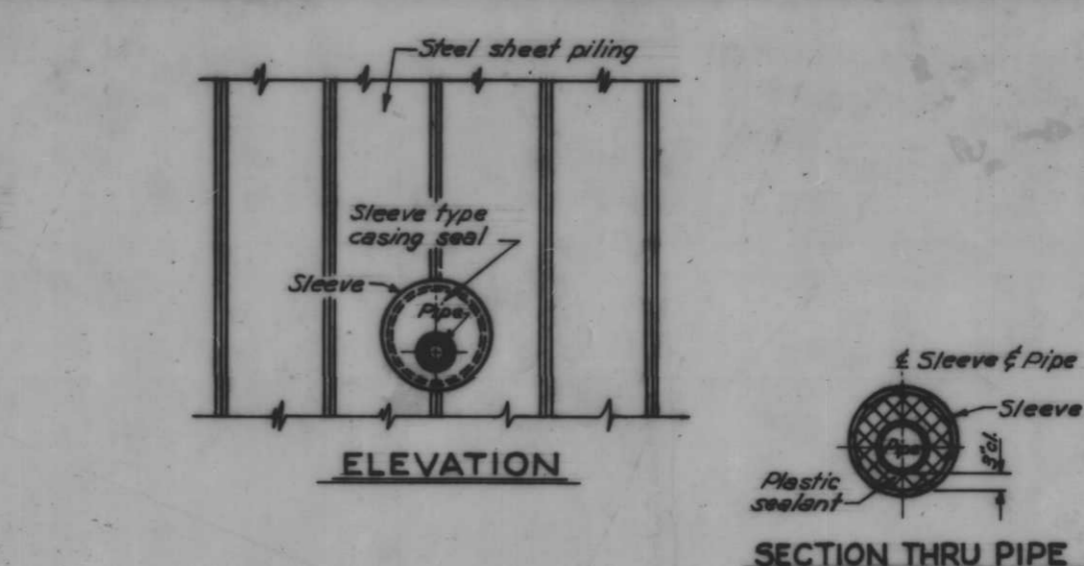
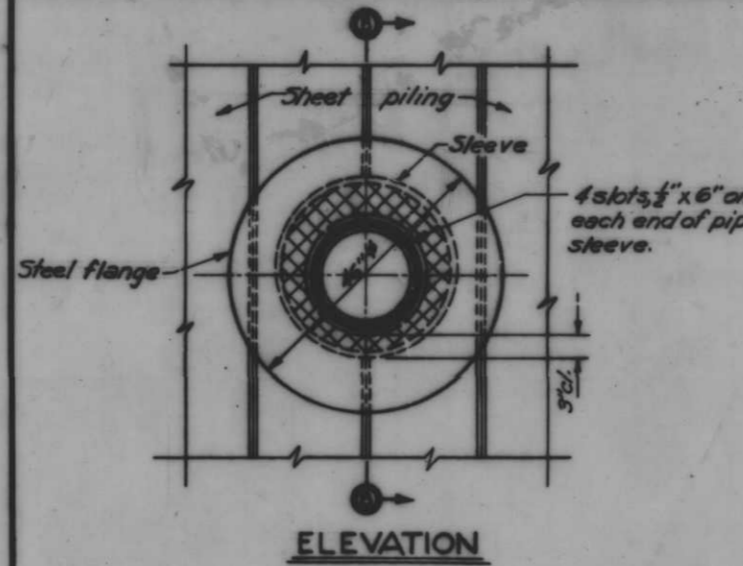
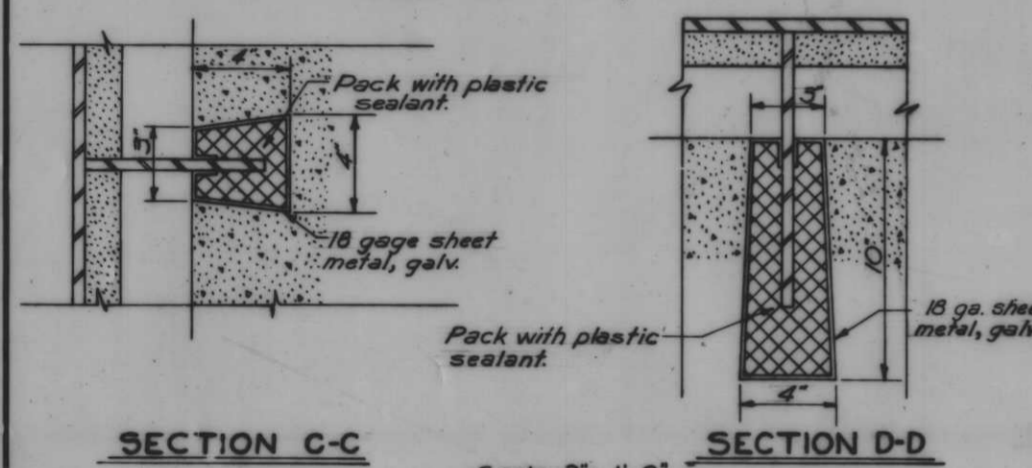
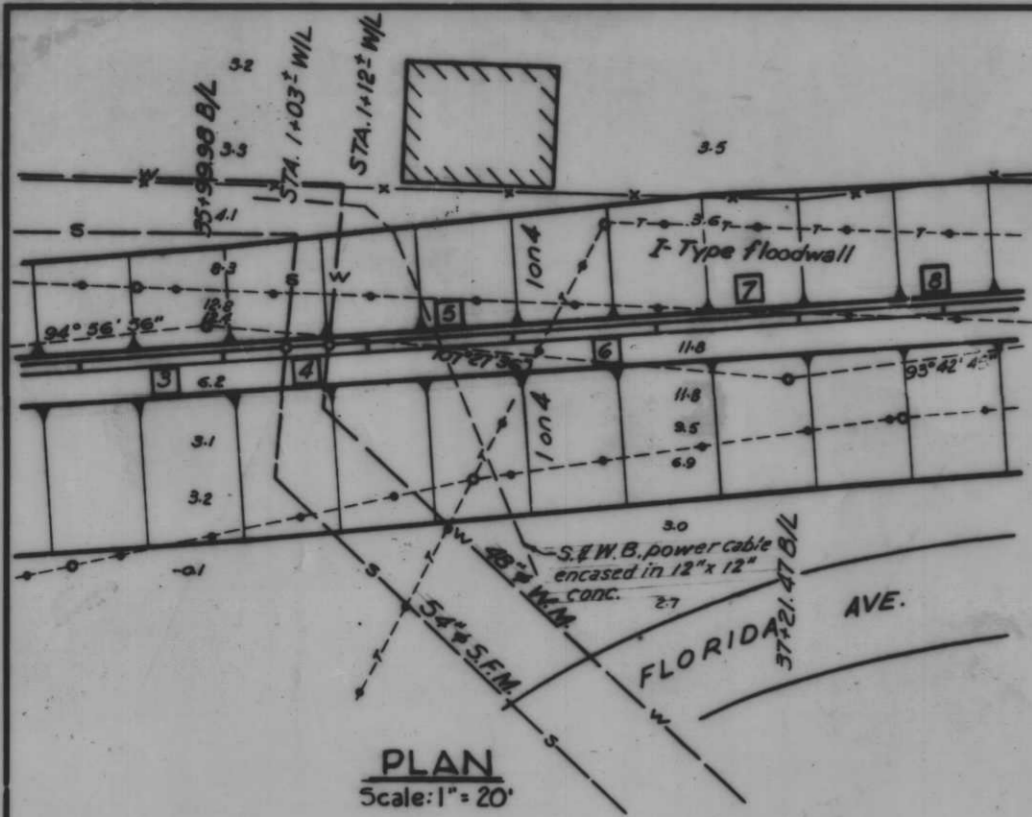
STEEL PIPE PILES

Scale: 1/2" = 1'-0"

2.172 REVISED PILE SPACING MONO 153
 12'-68" Revised pile spacing mono. 156, pile length mono. 126 & added note J.J.P.

REVISION	DATE	DESCRIPTION	BY
C.W.R.	G.M.	D.A.M.	

H-4-24263
 DATE: SCALE: SHOWN SPEC. NO. DACW29- DWG. NO. 30 OF 78



SLEEVE TABLE					
Existing Pipe O.D.	Min. Sleeve Size		Existing Pipe O.D.	Min. Sleeve Size	
	Nominal Size	I.D.		Nominal Size	I.D.
2"	10"	10.020"	8"	18"	17.250"
3"	12"	12.000"	9"	18"	17.250"
4"	12"	12.000"	10"	20"	19.250"
5"	14"	13.250"	11"	20"	19.250"
6"	16"	15.250"	12"	24"	23.250"
7"	18"	17.250"	13"	24"	23.250"

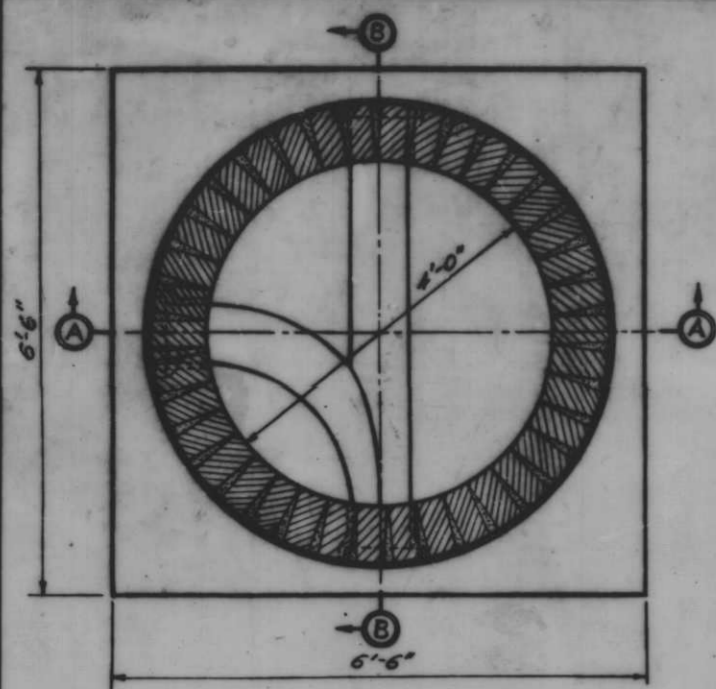
Note: For general notes, see Dwg. No. 4.

Δ 10.168 SEE NOTE AT IGH.R. GAS MOD.

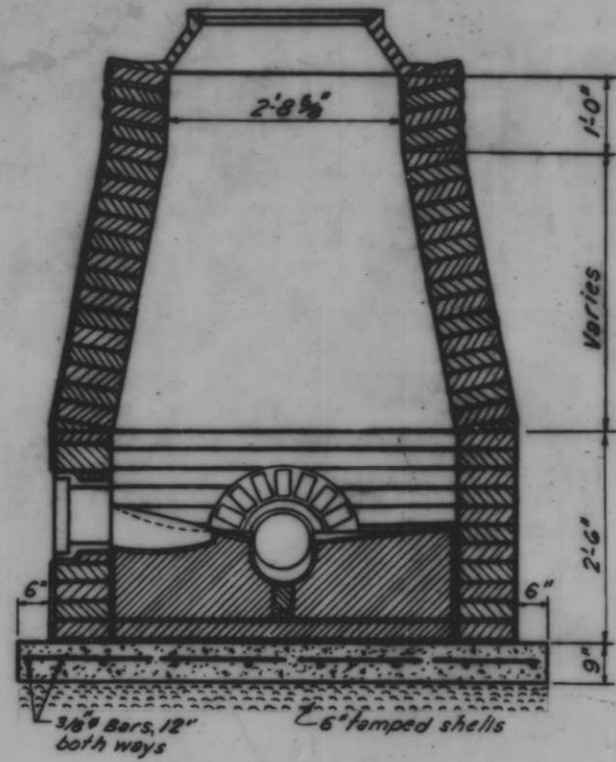
REVISION	DATE	CHECKED	CODE IDENT. NO.	SIZE	FILE NO.	BY
D.A.M.		B.H.D.	J.S.H.			

H-4-24263

SCALE SHOWN SPEC. NO. D.A.C.H.S. DWG. NO. 31 OF 78

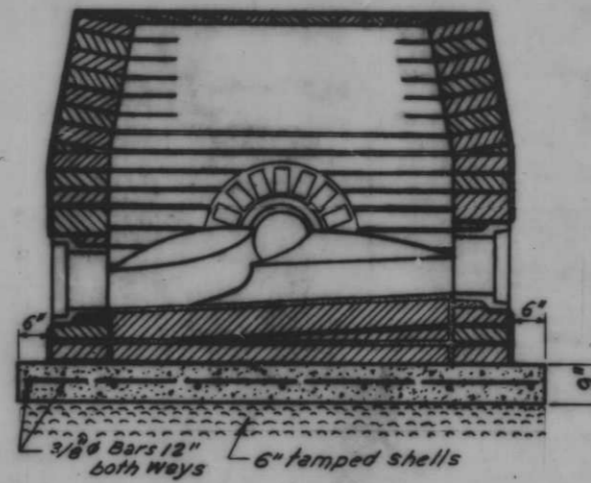


PLAN

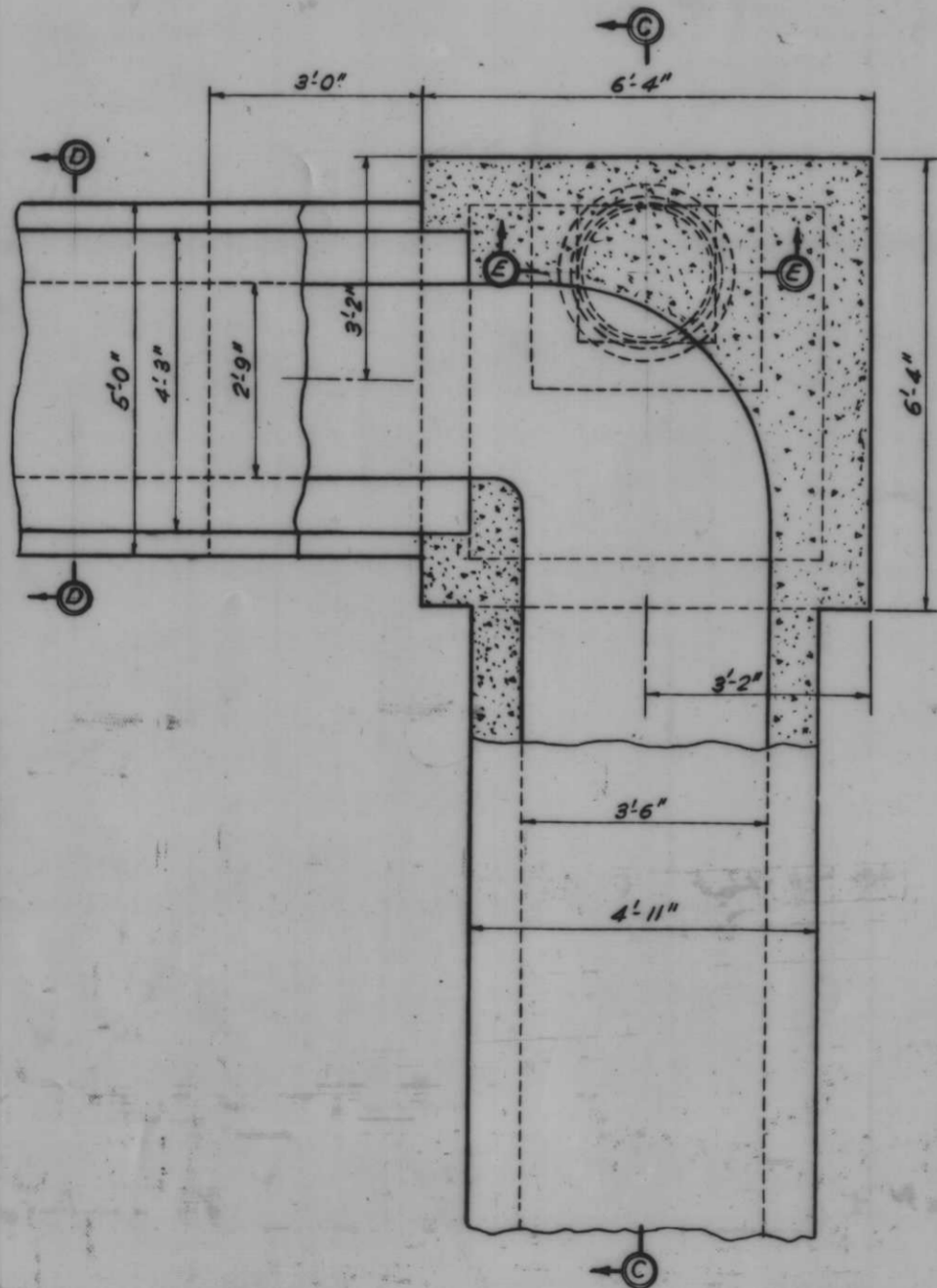


SECTION A-A

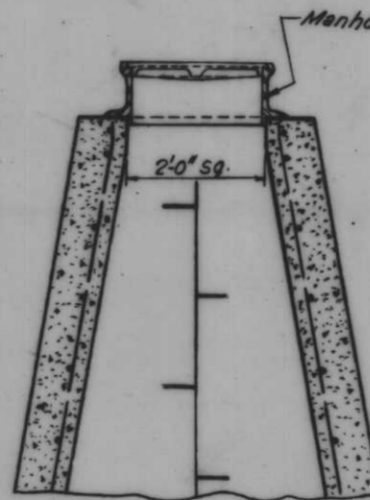
TYPE A MANHOLE



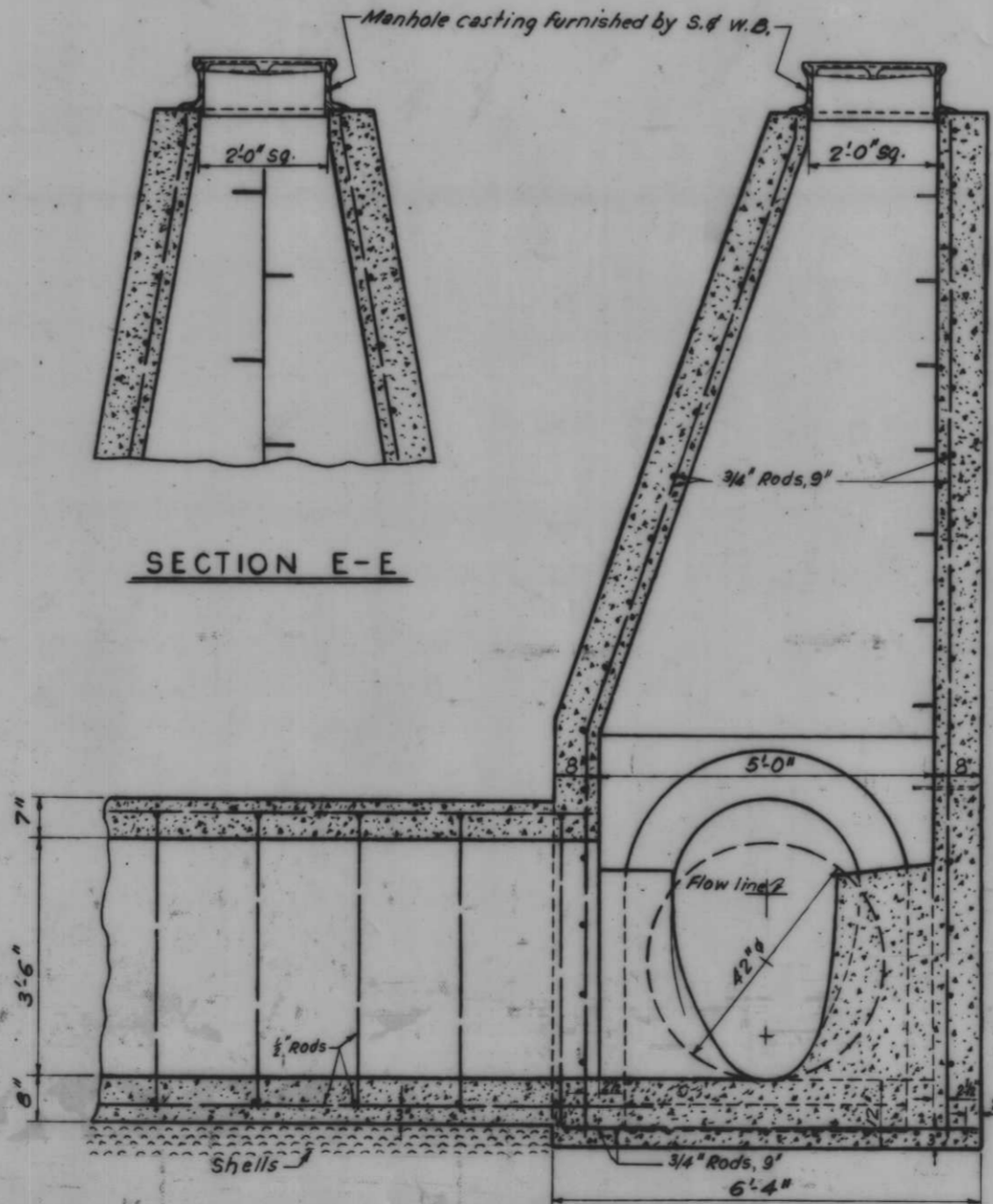
SECTION B-B



PLAN



SECTION E-E

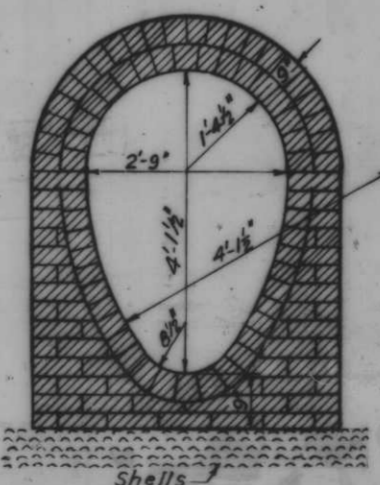


SECTION C-C

TYPE B MANHOLE

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

Note: Egg shaped manhole shown for manhole at Villere street only. Remaining type B manholes are 42" ϕ round.



SECTION D-D

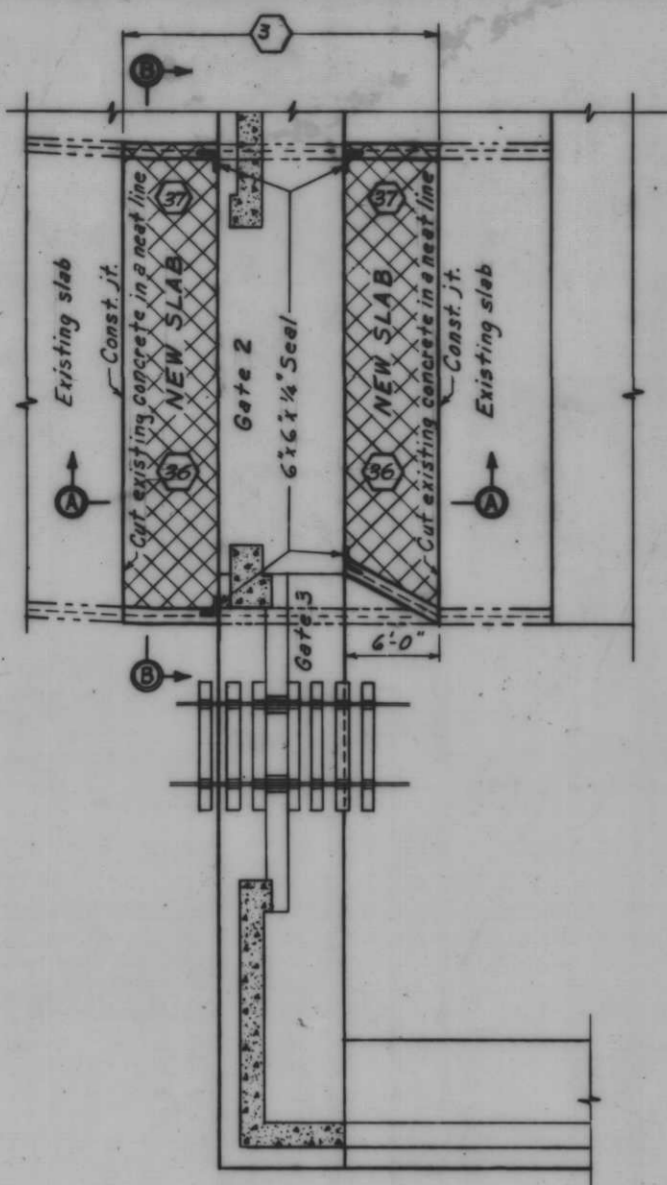
Note: All work on this sheet to be done by others.

AS CONSTRUCTED

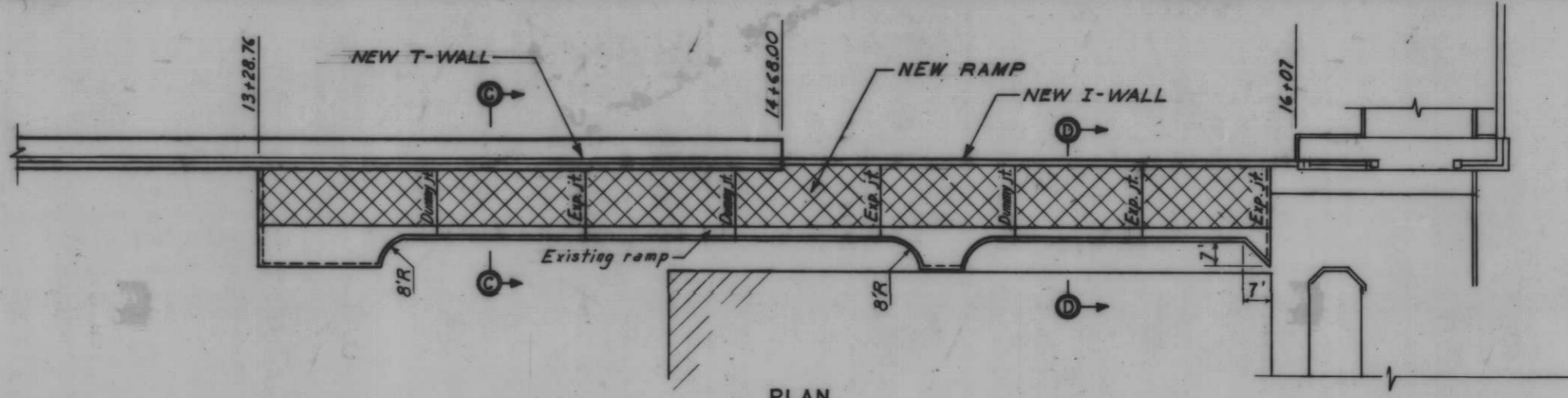
MANHOLES

REVISION	DATE	DESCRIPTION	BY
DESIGNED:	DRAWN:	CHECKED:	CODE IDENT. NO.
Se. W. B.	E. J. C.	D. A. M.	SIZE
			FILE NO.
			H-4-24263
DATE:	SCALE SHOWN:	SPEC. NO. DASHES:	DWG. NO. 314 OF 78

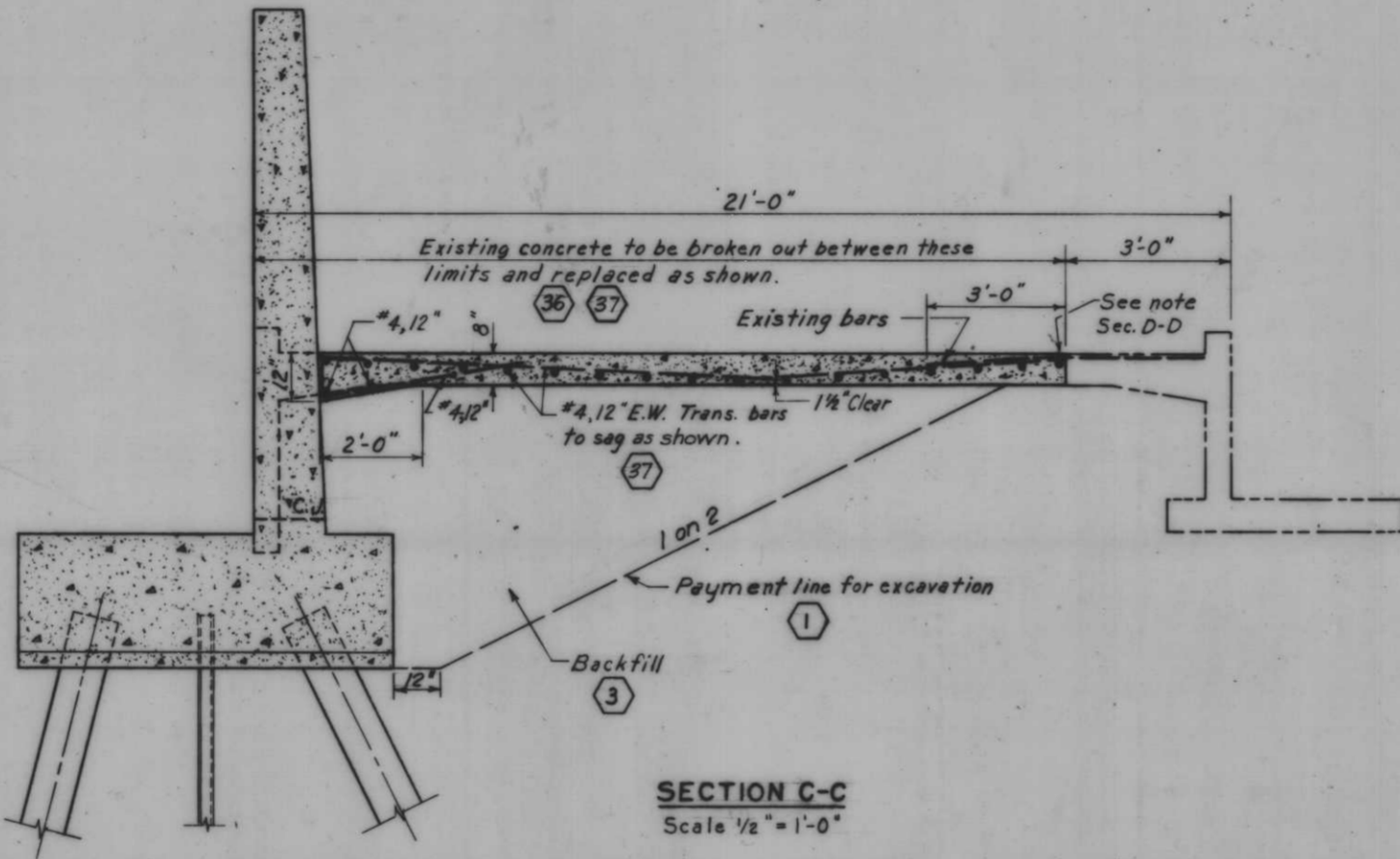
IHNC, WEST LEVEE, FLA. AVE. TO IHNC LOCK-FLOODWALL



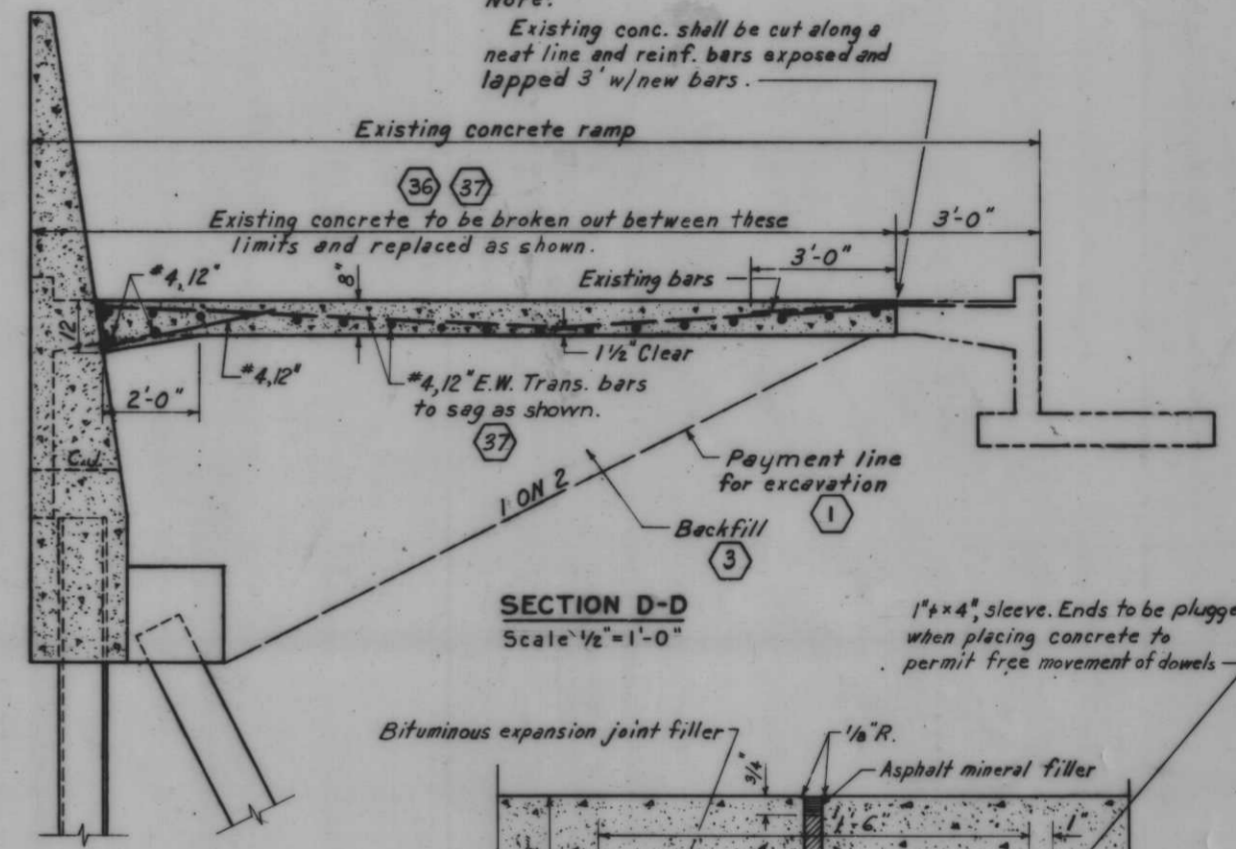
PLAN
Scale 1"=6'



PLAN
Scale 1"=20'



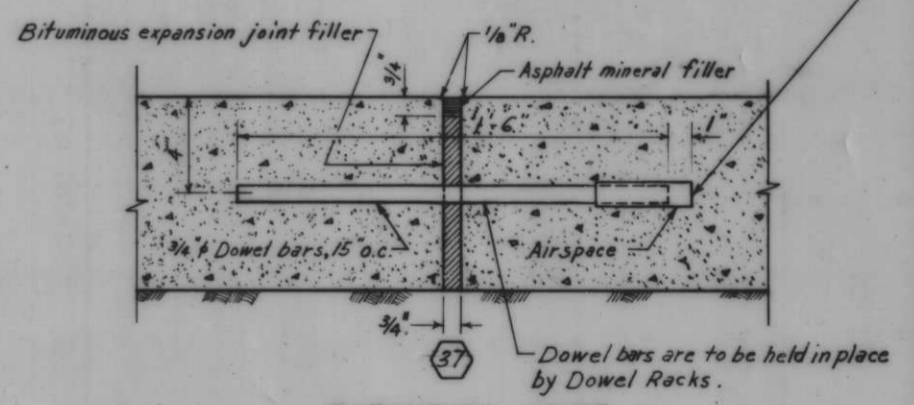
SECTION C-C
Scale 1/2"=1'-0"



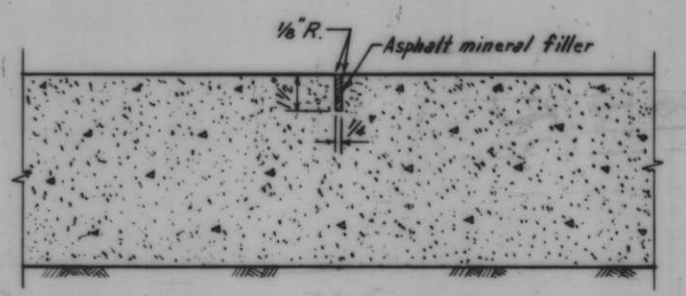
SECTION D-D
Scale 1/2"=1'-0"

Note:
Existing conc. shall be cut along a neat line and reinf. bars exposed and lapped 3' w/new bars.

1"x4" sleeve. Ends to be plugged when placing concrete to permit free movement of dowels.

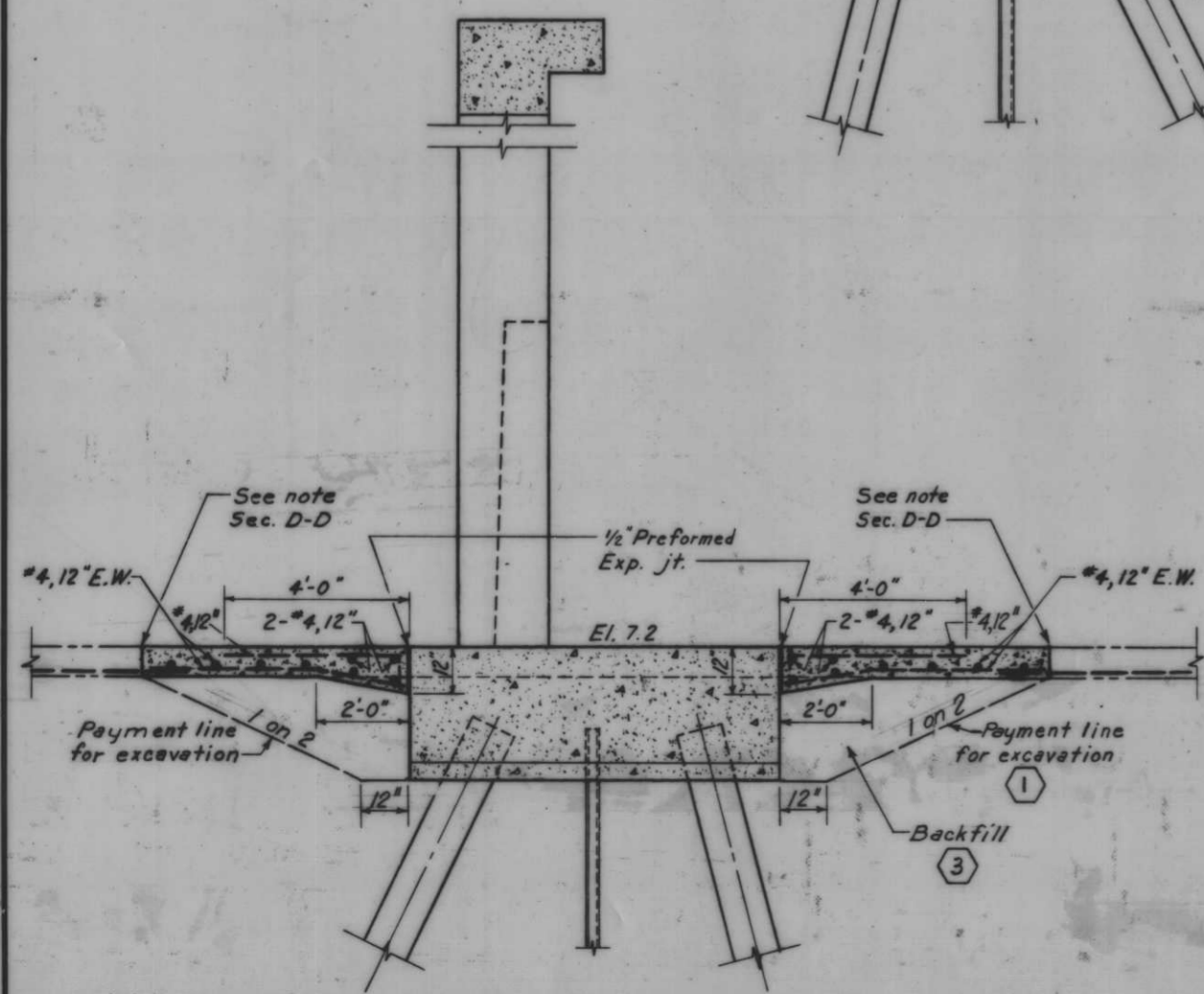


EXPANSION JOINT



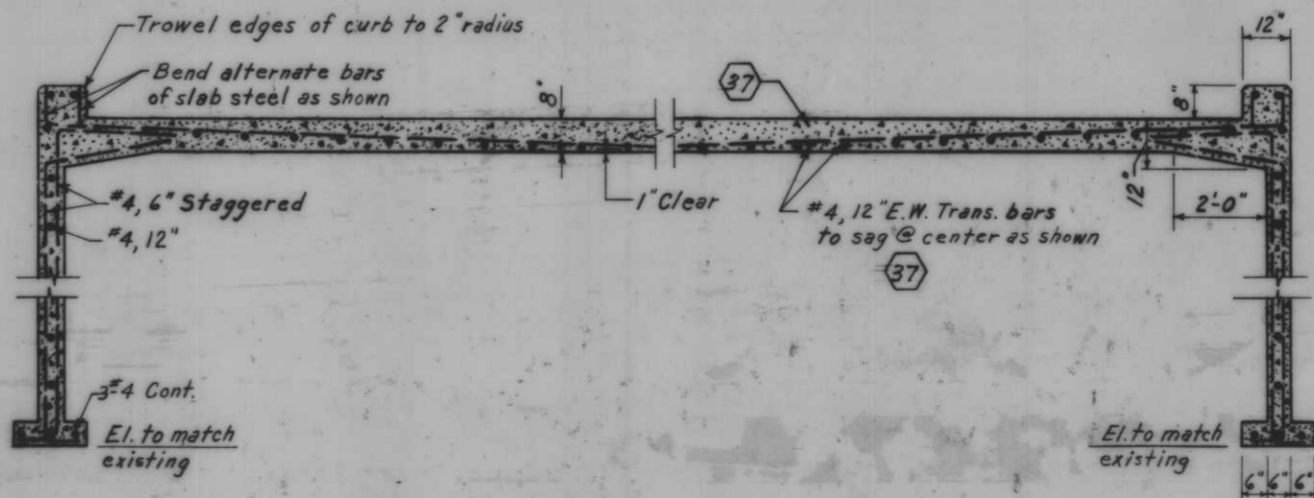
DUMMY JOINT
Scale 3"=1'-0"

Note:
For general notes, see Dwg. No. 4.



SECTION A-A
Scale 1/2"=1'-0"

RAMP AT GATE 4



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

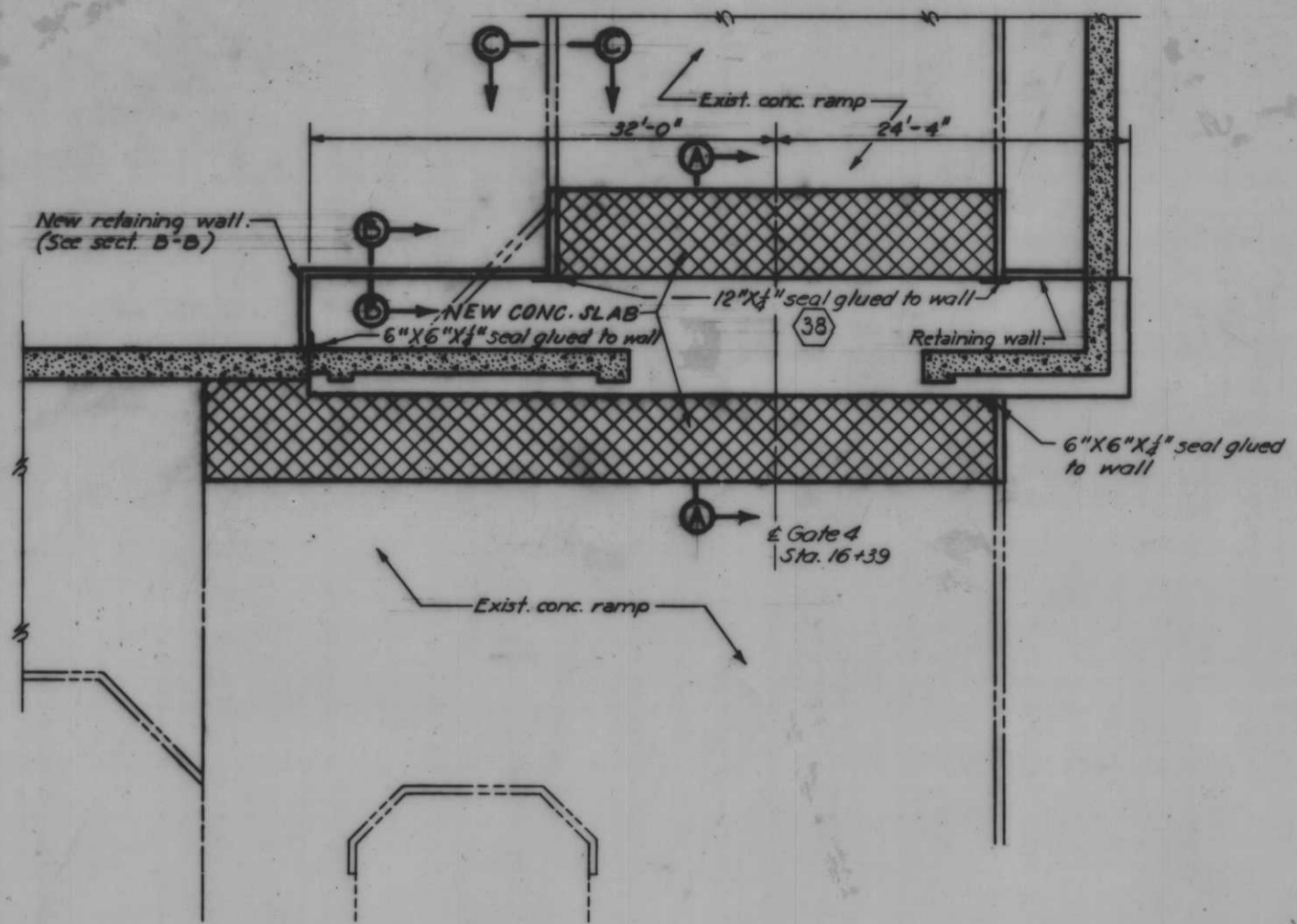
GATES 2 AND 3

AS CONSTRUCTED

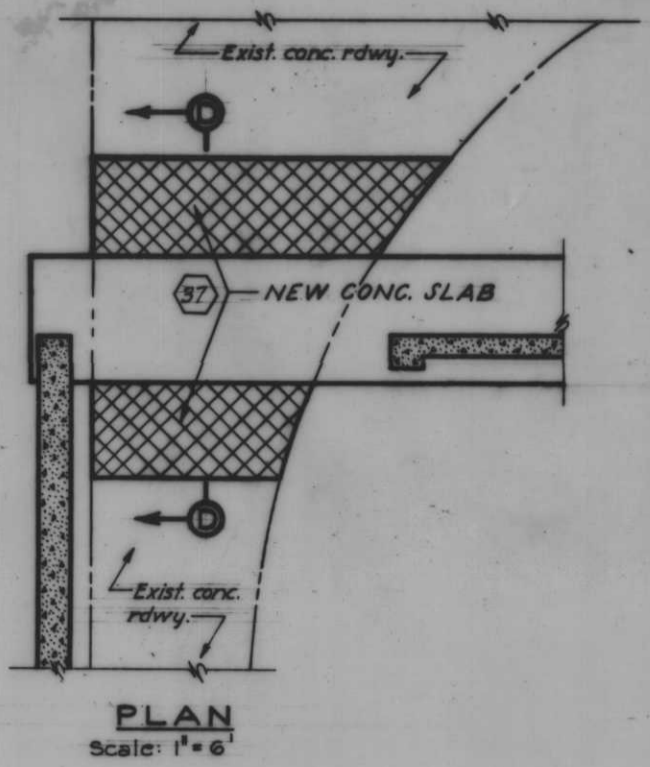
1 3 36 37

ROAD MODIFICATIONS-GATES 2,3 AND 4

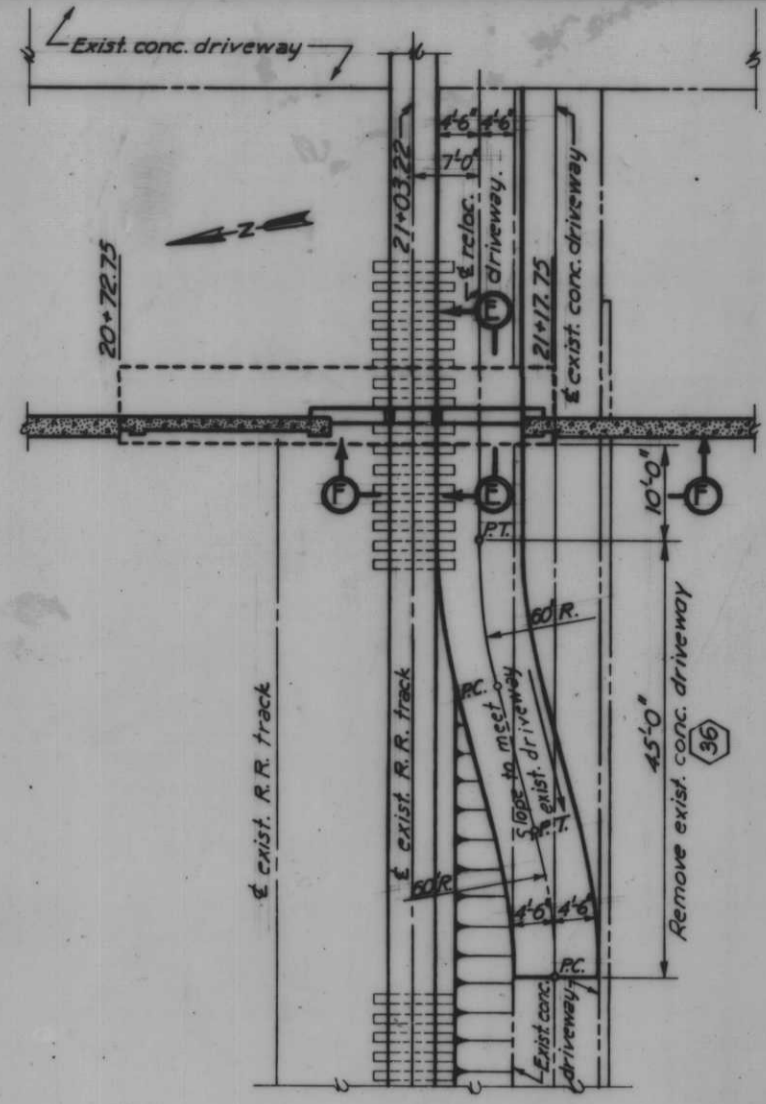
REVISION	DATE	DESCRIPTION	BY
DESIGNED	DRAWN	CHECKED	CODE IDENT. NO.
D.A.M.	G.M.	J.S.H.	FILE NO.
			H-4-24263
DATE:	SCALE: SHOWN	SPEC. NO. DAWES-	DWG. NO. 32 OF 78



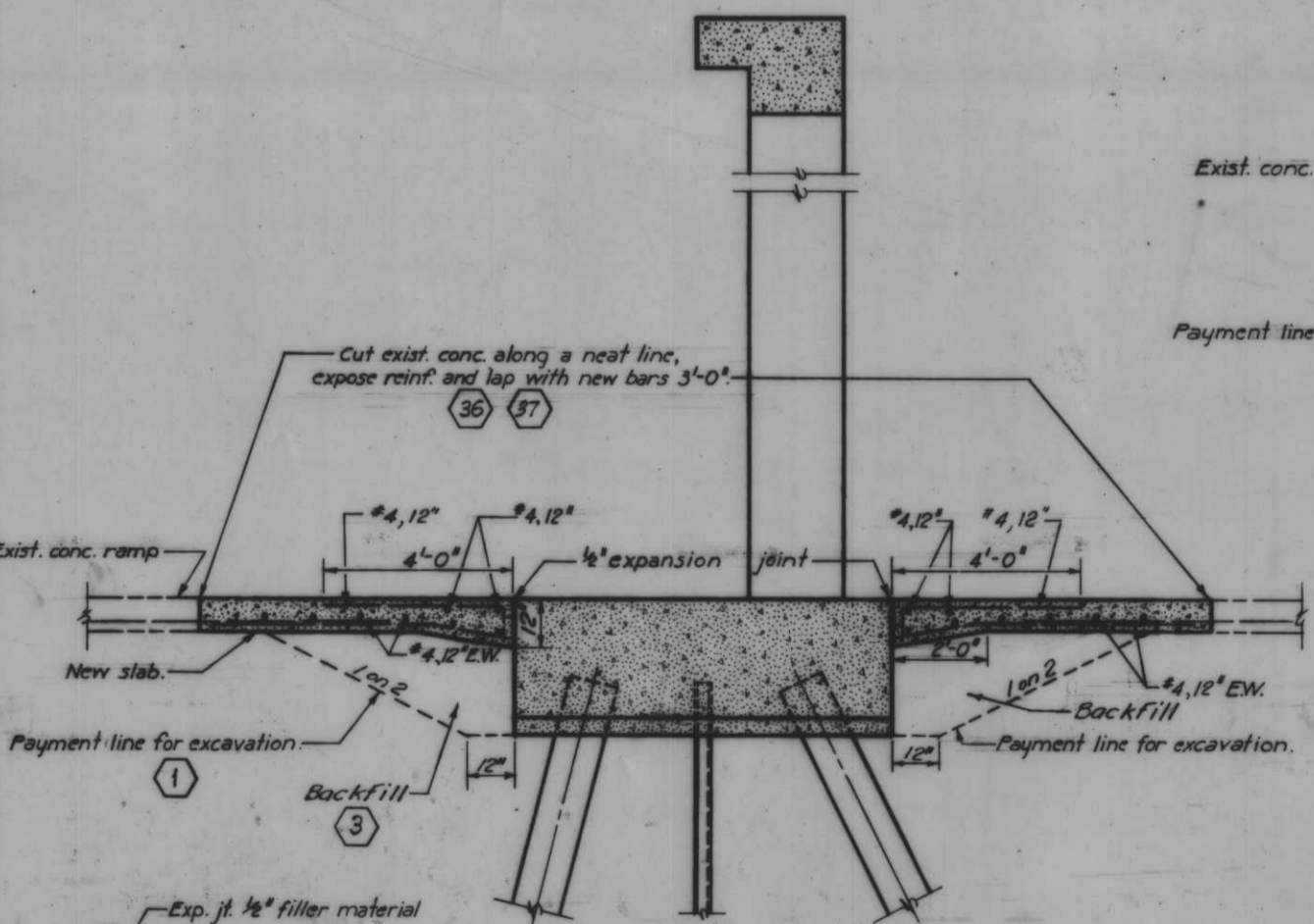
PLAN
Scale: 1" = 6'



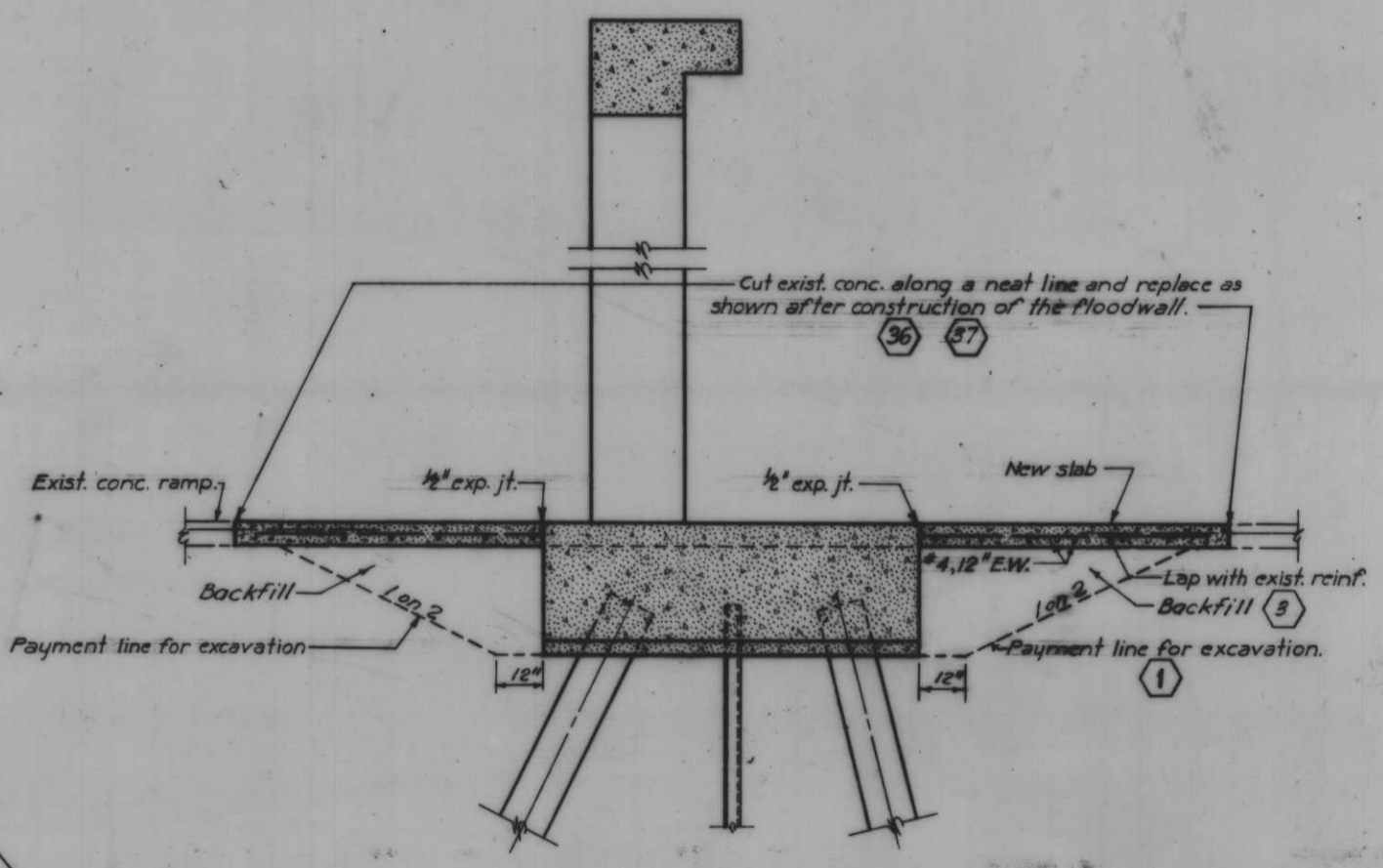
PLAN
Scale: 1" = 6'



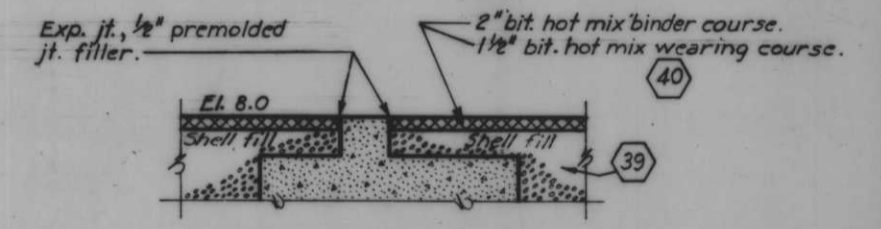
PLAN
Scale: 1" = 10'



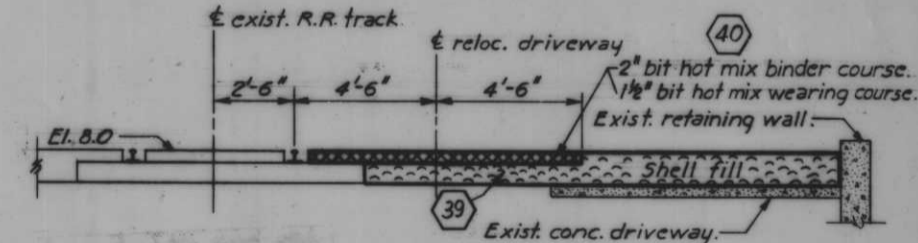
SECTION A-A
Scale: 1/2" = 1'-0"



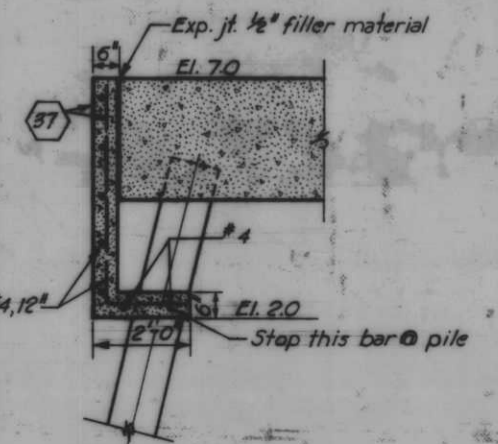
SECTION D-D
Scale: 1/2" = 1'-0"



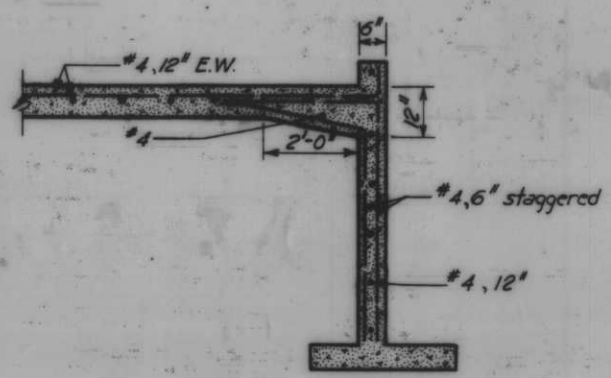
SECTION E-E
Scale: 1" = 3'-0"



SECTION F-F
Scale: 1" = 3'-0"



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



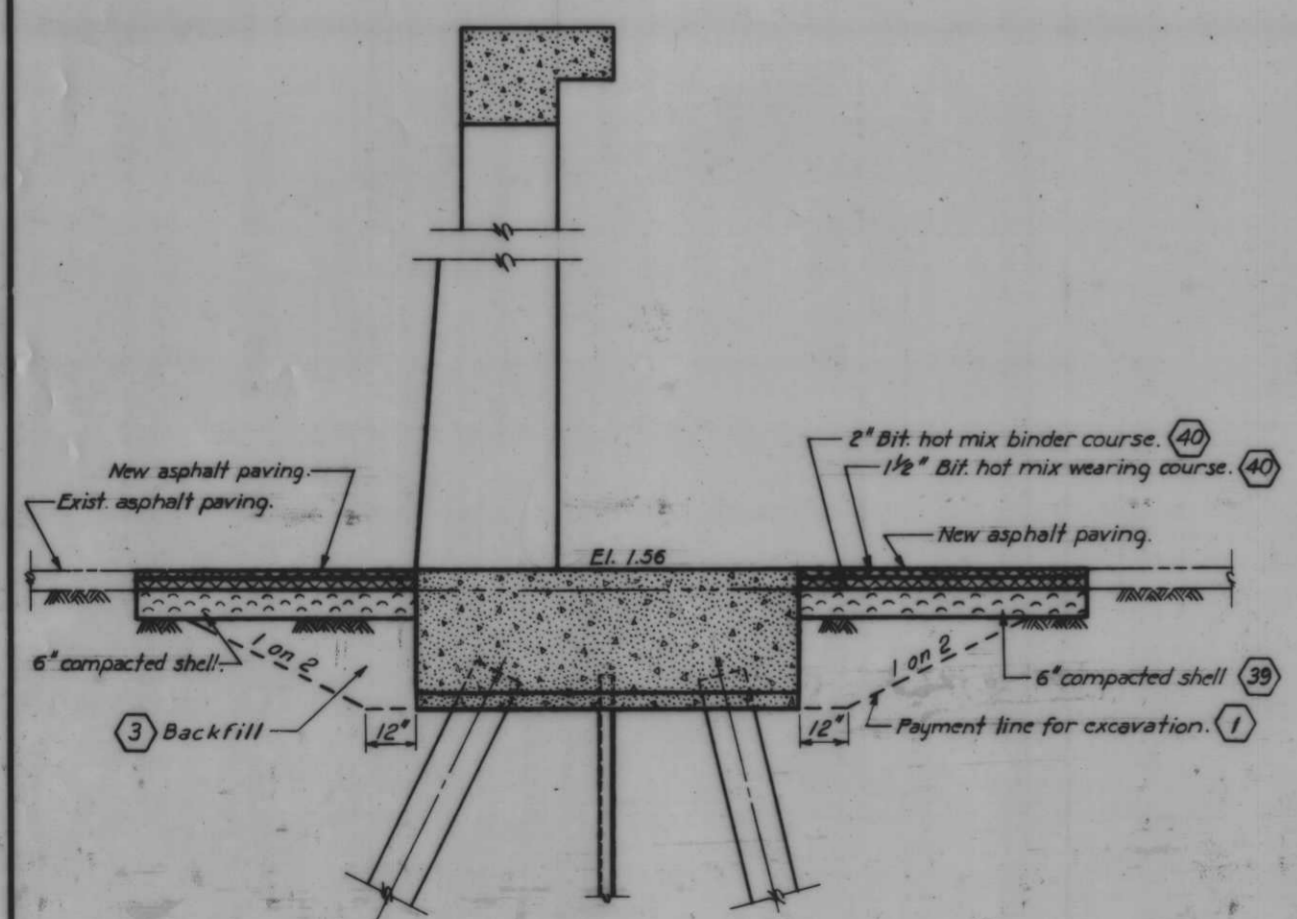
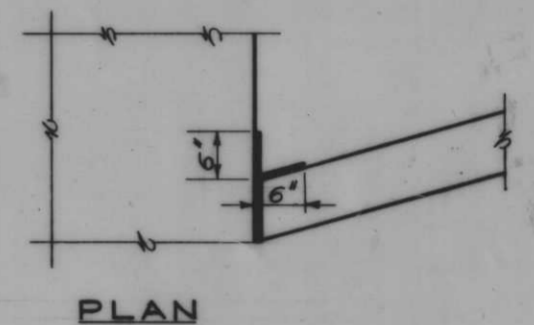
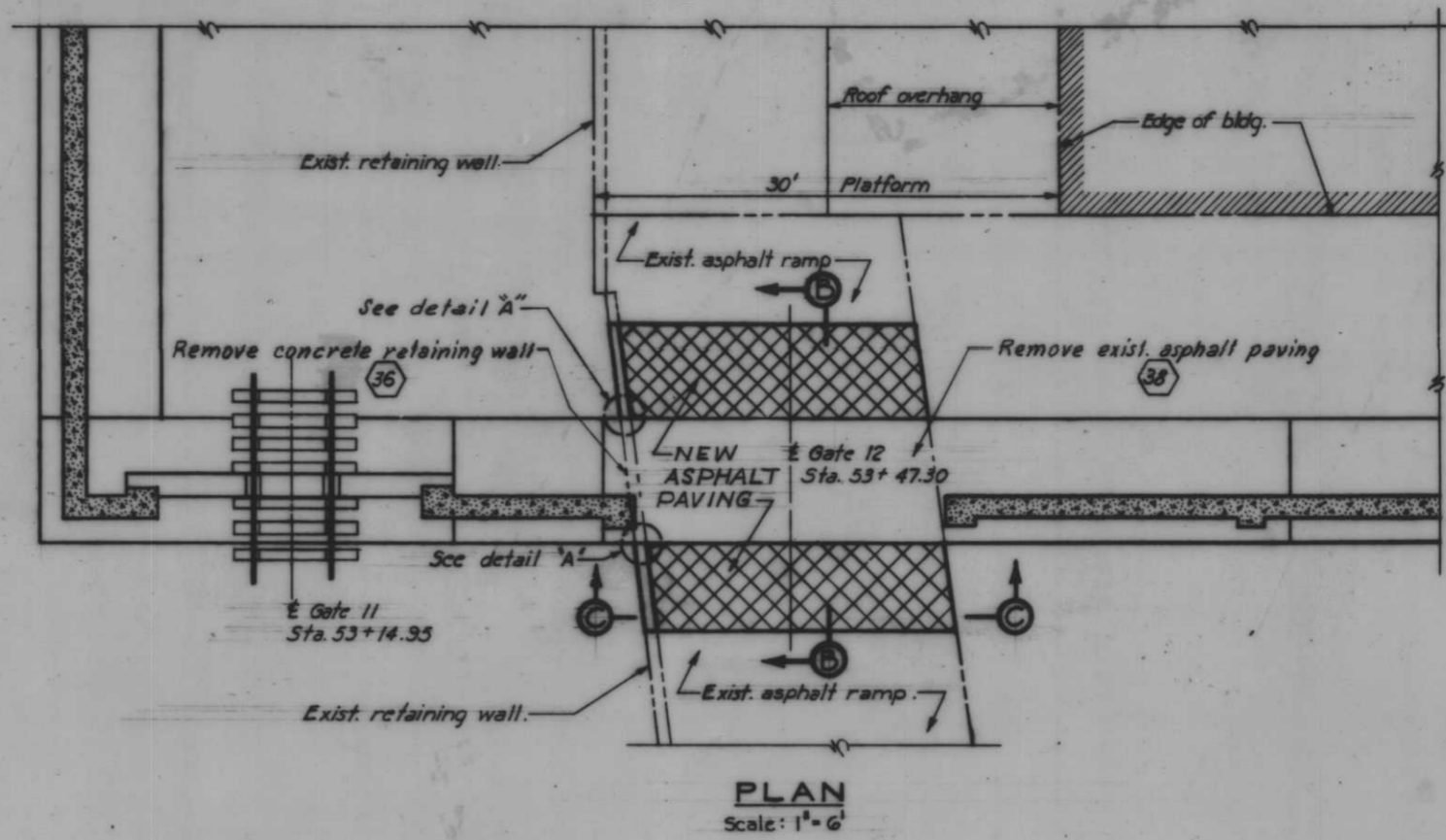
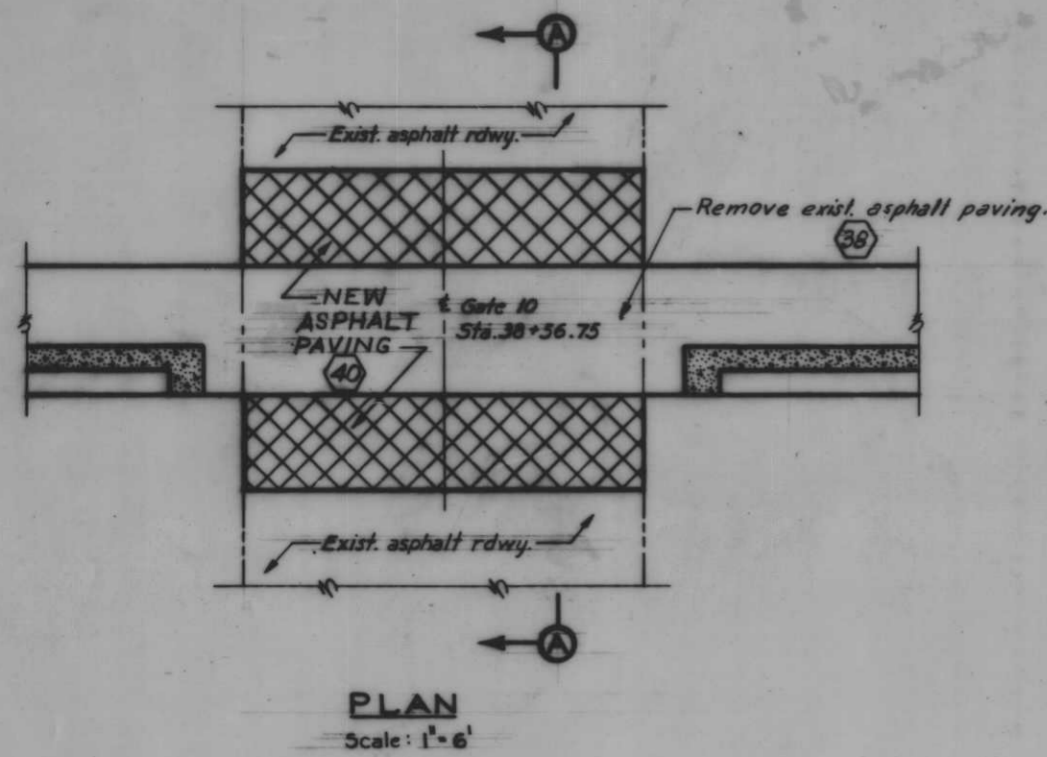
SECTION C-C
Scale: 1/2" = 1'-0"

Note:
For general notes, see Dwg. No. 4.

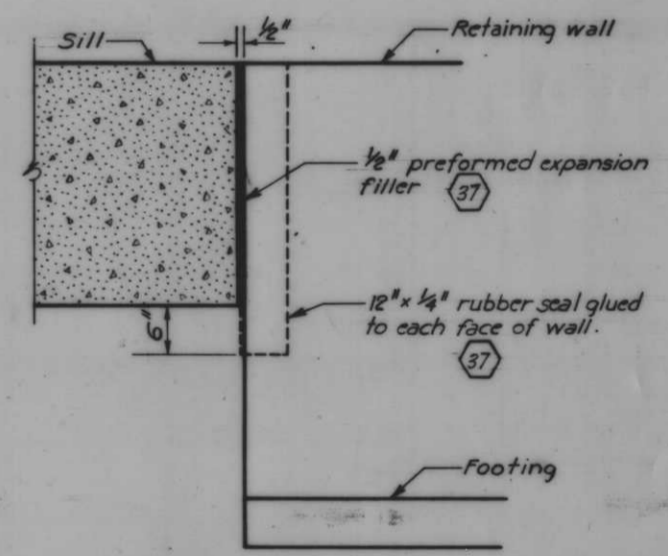
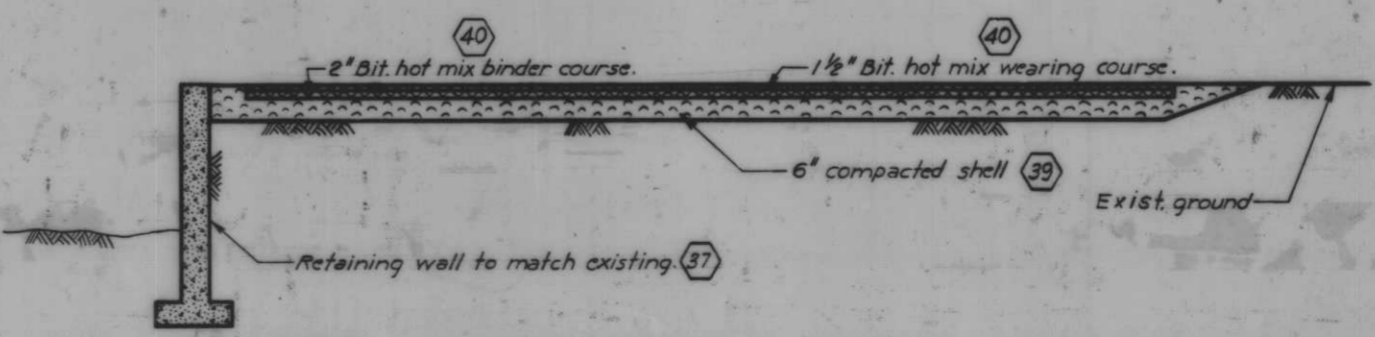
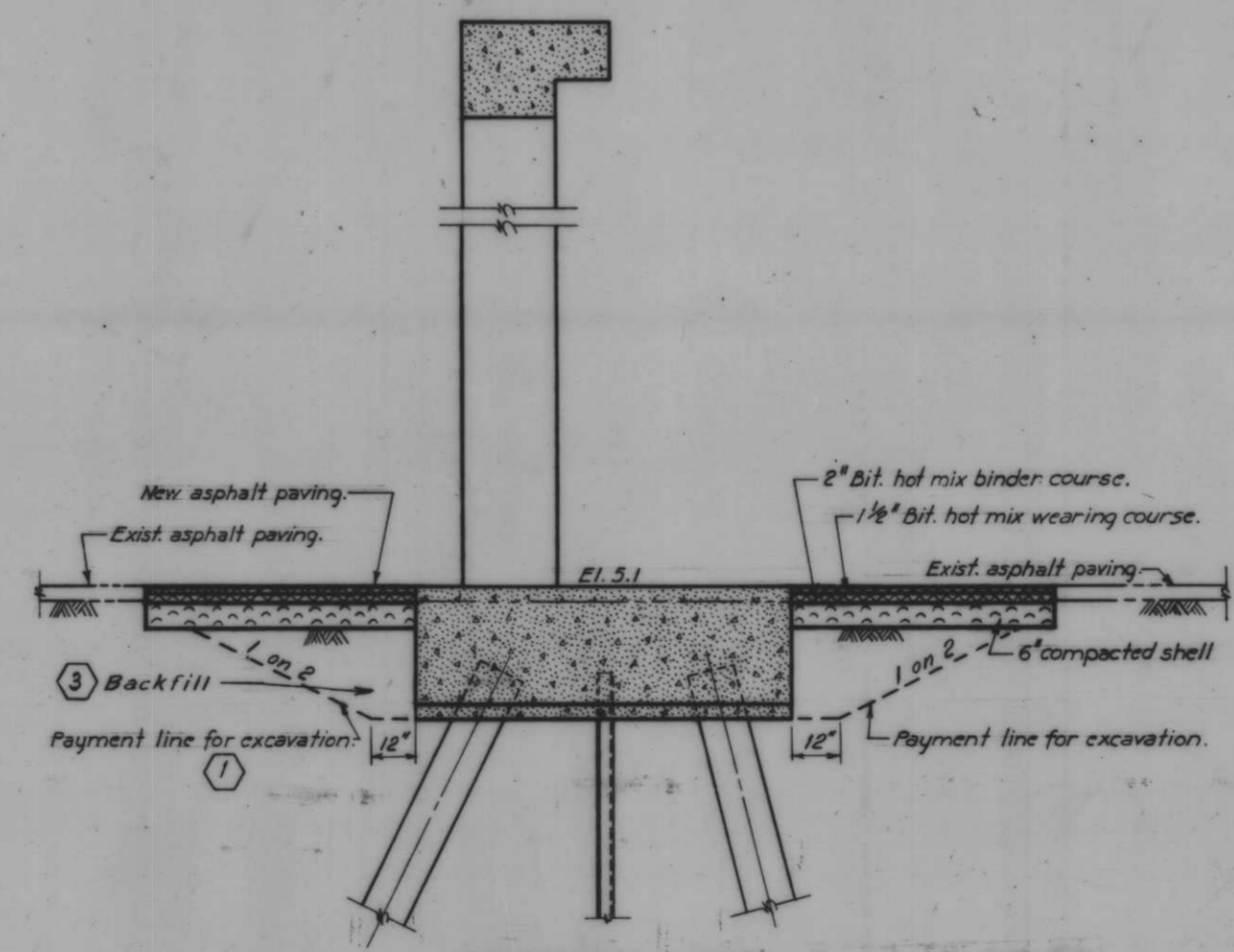
AS CONSTRUCTED

1 3 36 37 39 40
ROAD MODIFICATIONS-GATES 4, 5 AND 6

REVISION	DATE	CHECKED	CODE IDENT. NO.	SIZE	FILE NO.	BY
DESIGNED	D.A.M.	DRAWN	J.J.P.	CHECKED	J.S.H.	
H-4-24263						
DATE:	SCALE: SHOWN	SPEC. NO. DASHES:	Dwg. No. 33 of 78			



GATE 10



ELEVATION

DETAIL A

Note: For general notes, see Dwg. No. 4.

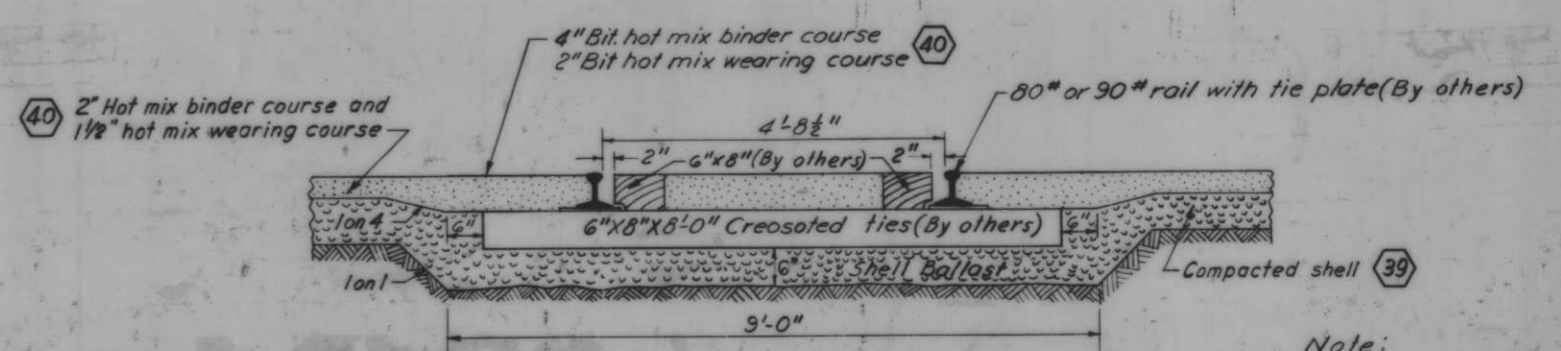
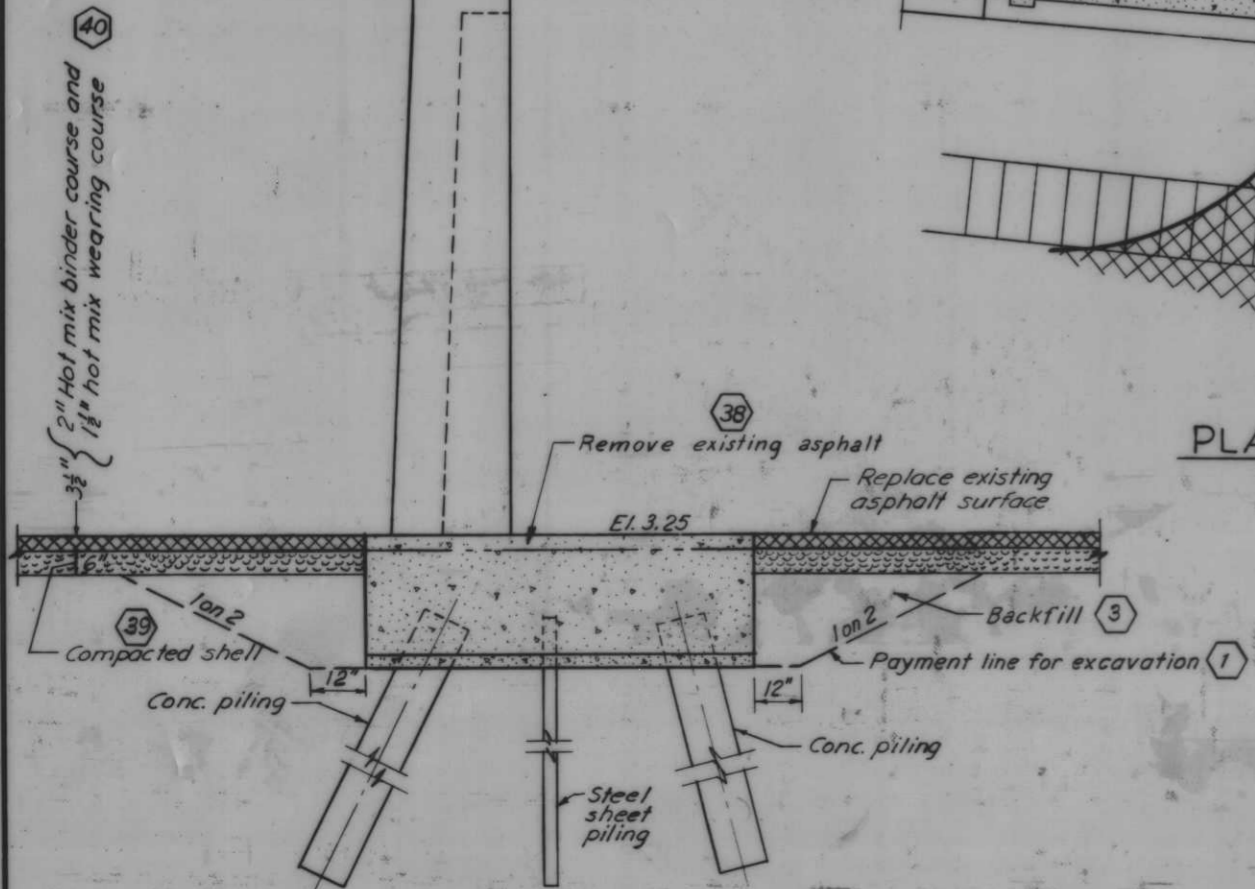
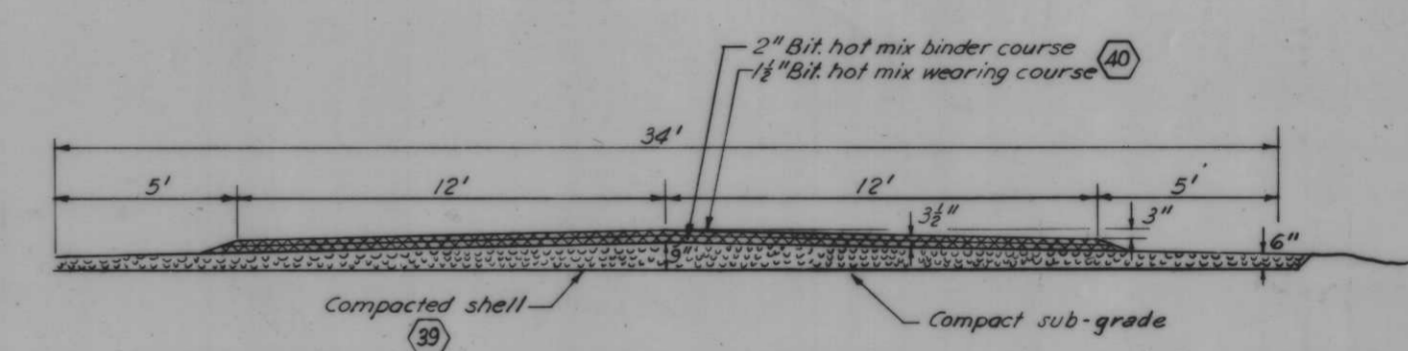
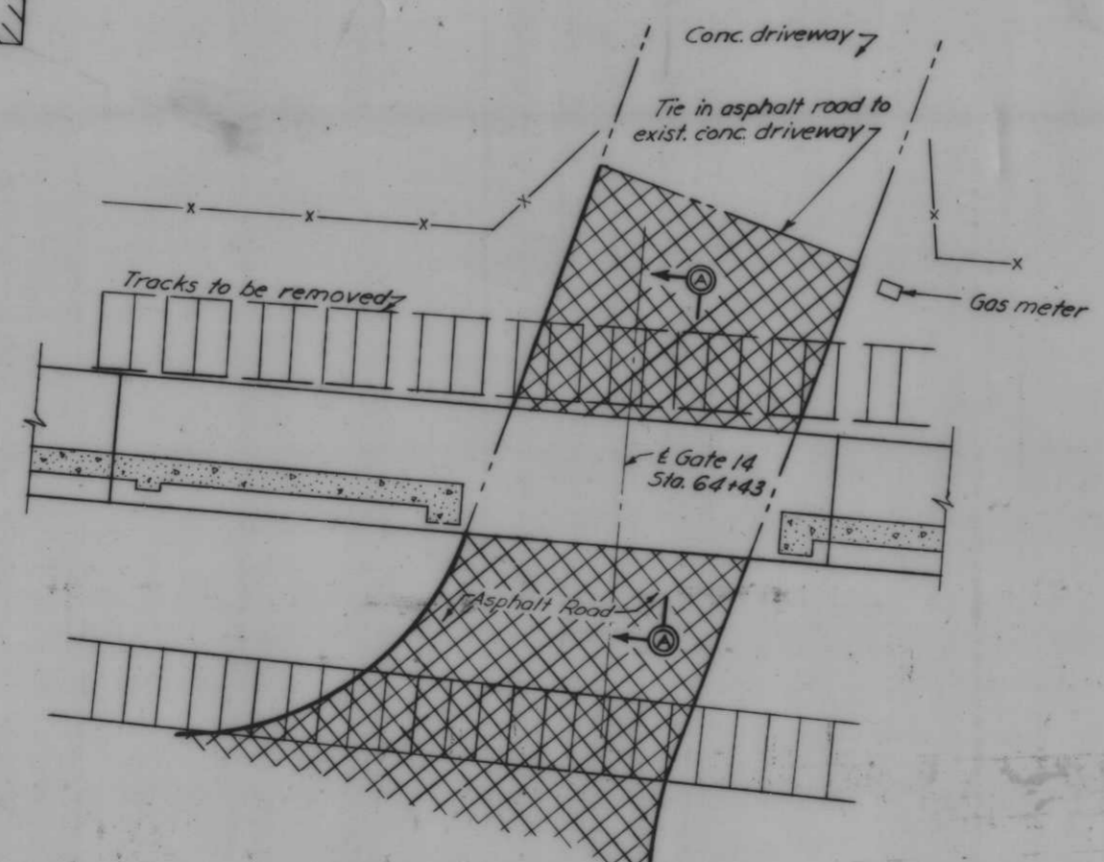
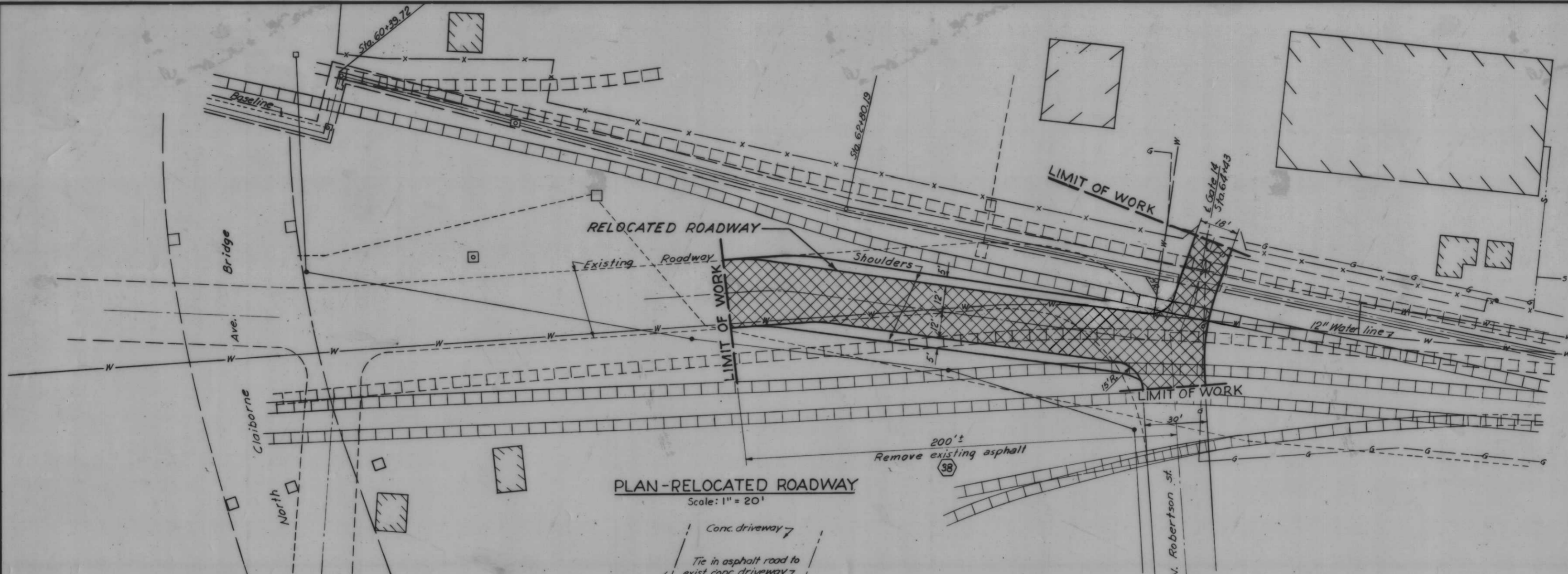
AS CONSTRUCTED

GATES 11 & 12

ROAD MODIFICATIONS-GATES 10, 11 AND 12

REVISION	DATE	CHECKED	DESCRIPTION	BY
DESIGNED				
D.A.M.	J.J.P.	J.S.H.		
DATE:				
SCALE SHOWN	SPEC. NO. DRAWN	DWG. NO.	34 OF 78	

H-4-24263

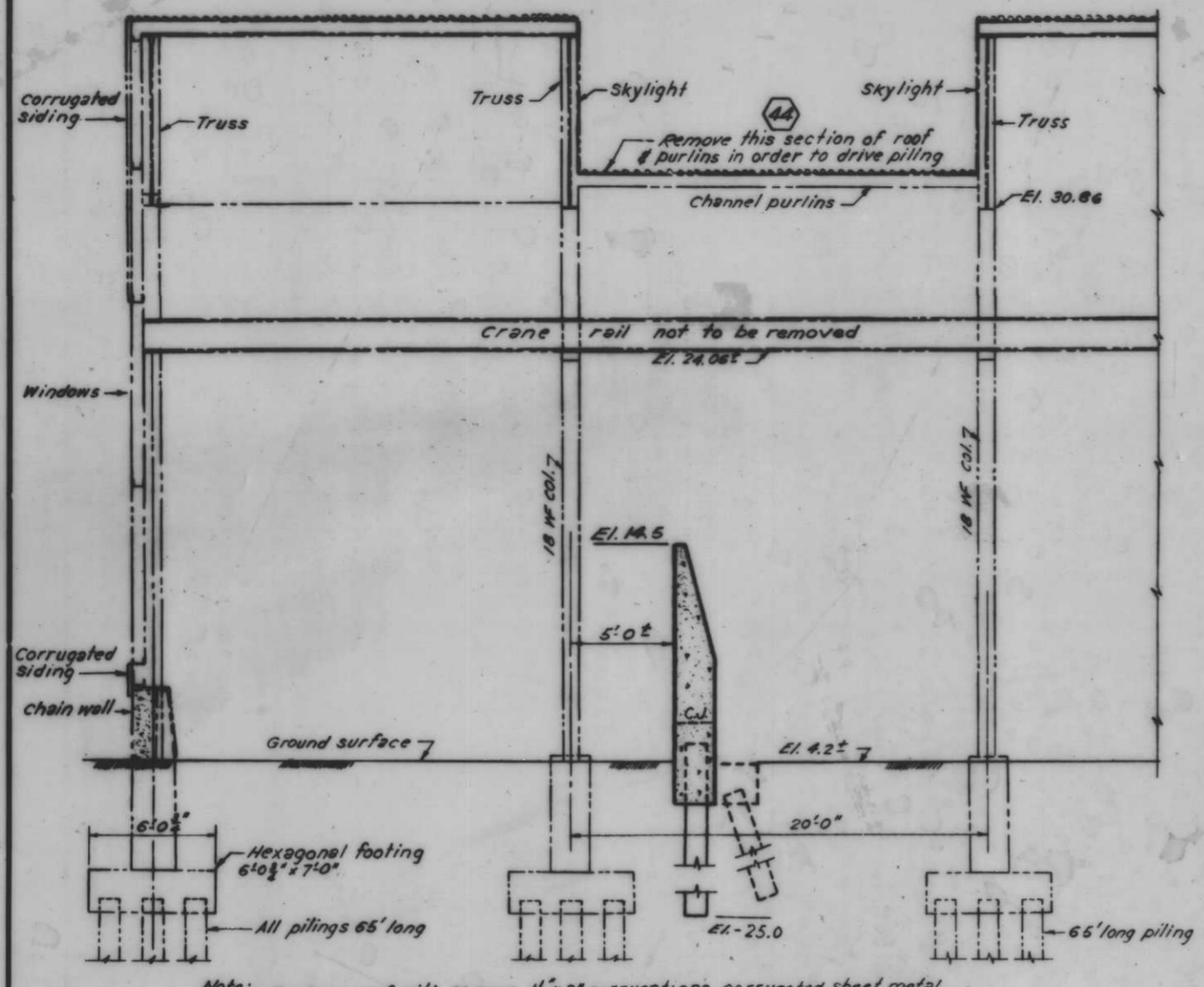


Note:
For general notes, see
Dwg. No. 4.

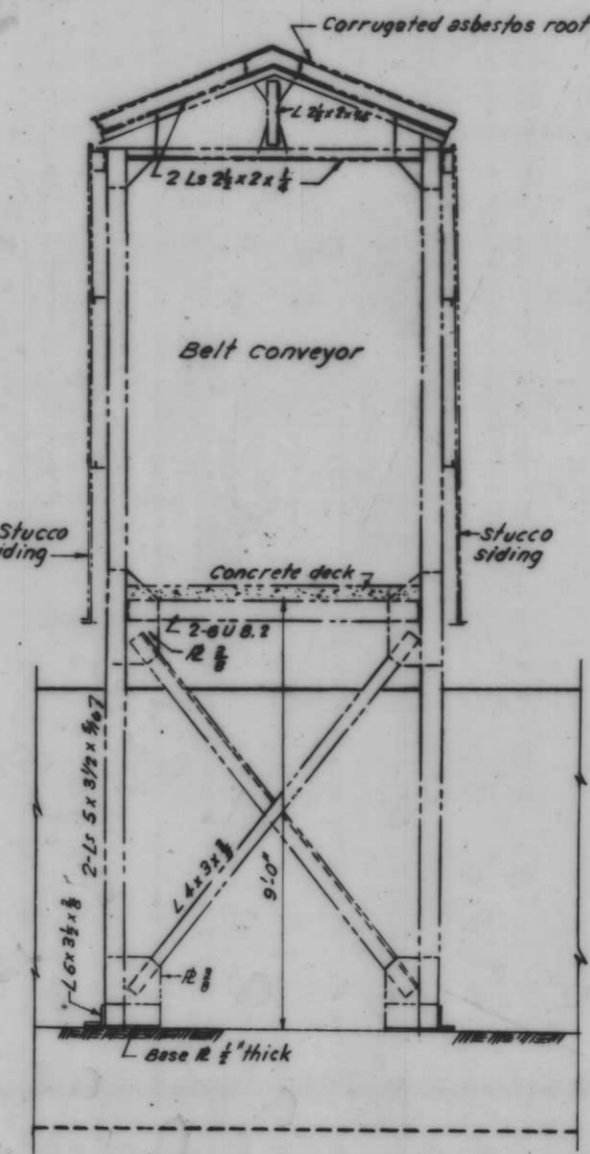
AS CONSTRUCTED

ROAD MODIFICATIONS-GATE 14

REVISION	DATE	DESCRIPTION	BY						
DESIGNED	T.F.P.	DRAWN	C.E.M.	CHECKED	J.S.H.	CODE IDENT. NO.	SIZE	FILE NO.	H-4-24263
DATE:	SCALE: SHOWN	SPEC. NO. DACWS-	DWG. NO. 35 OF 78						

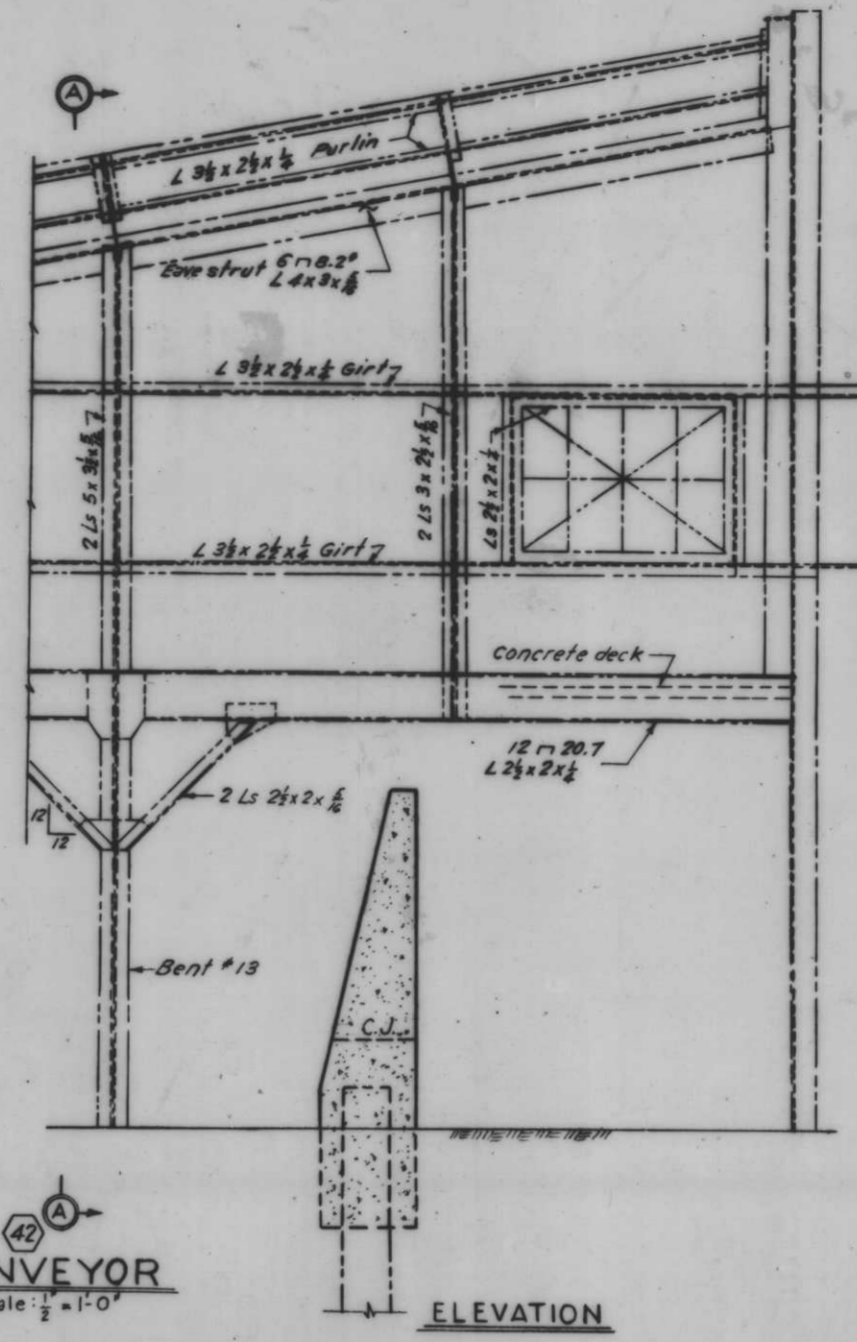


SECTION THRU J&L STEEL WAREHOUSE
Scale: 1/4" = 1'-0"

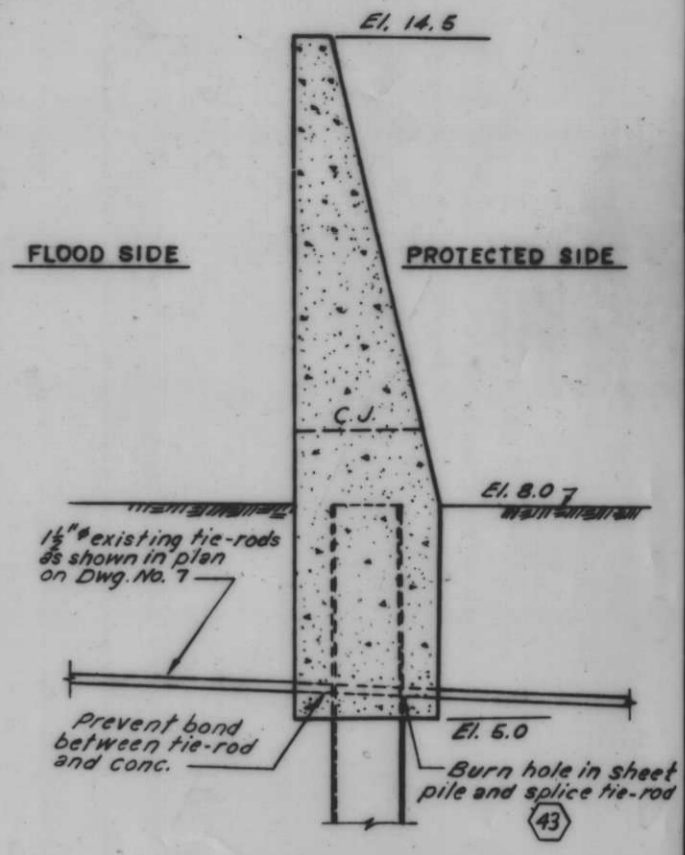


SECTION A-A

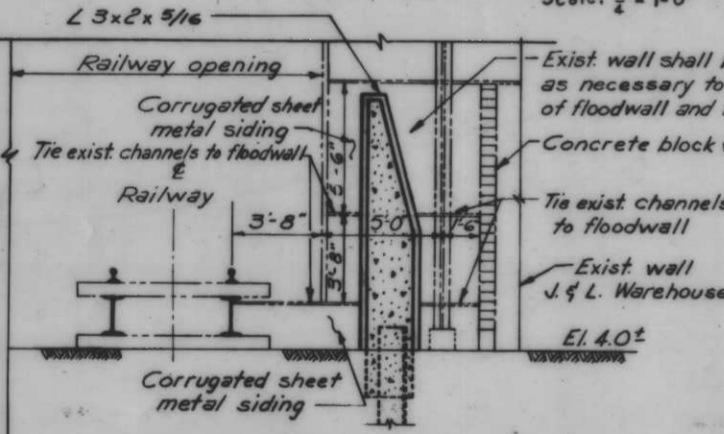
CONVEYOR
Scale: 1/2" = 1'-0"



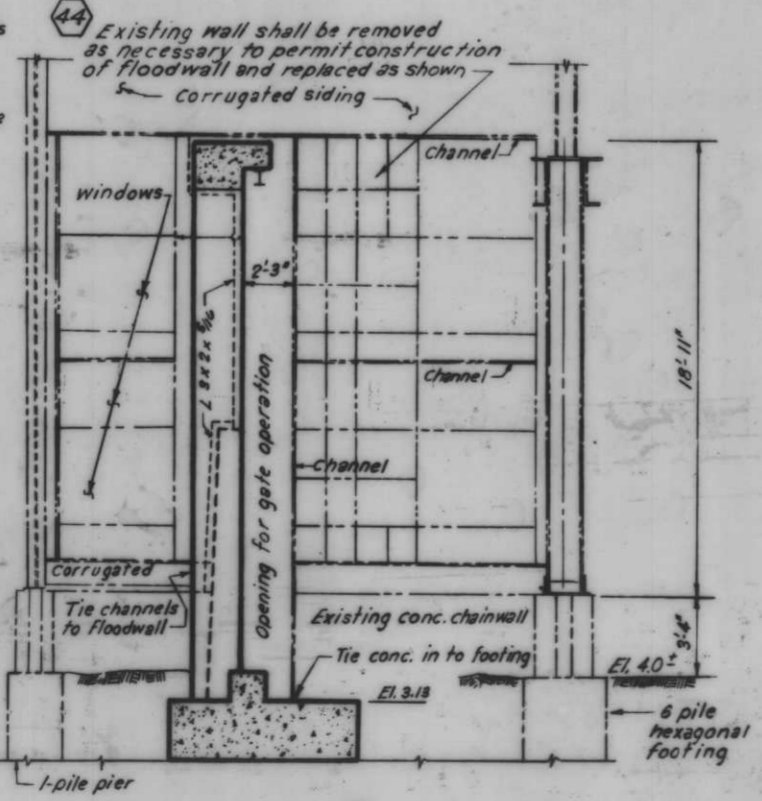
ELEVATION



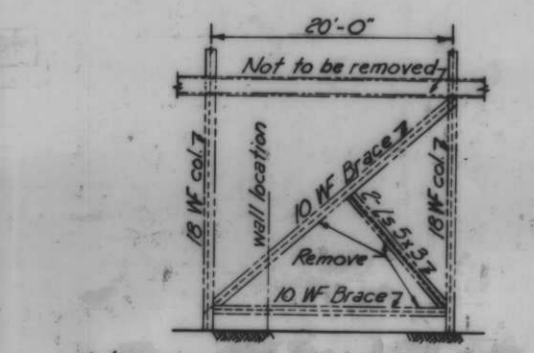
SECTION AT TIE-ROD
Scale: 3/8" = 1'-0"



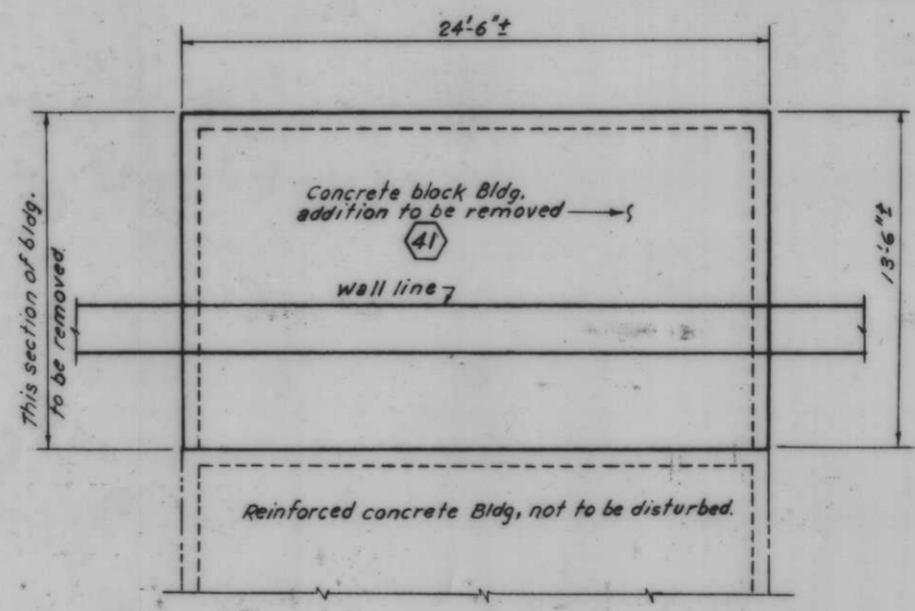
SECTION THRU FLOODWALL AT EAST END OF J. & L. WAREHOUSE
Scale: 1/4" = 1'-0"



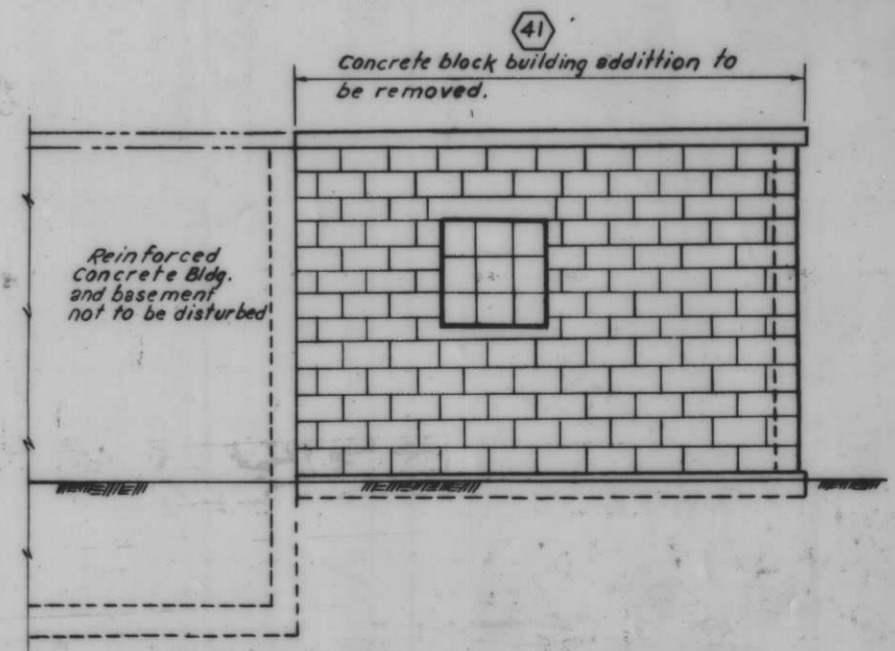
SECTION THRU GATE 8
Scale: 1/2" = 1'-0"



CROSS BRACING AT GATE 9
Scale: 1/8" = 1'-0"



PLAN OF BUILDING
Scale: 1/2" = 1'-0"



SIDE ELEVATION OF BUILDING
Scale: 3/8" = 1'-0"

MODIFICATIONS TO BUILDING

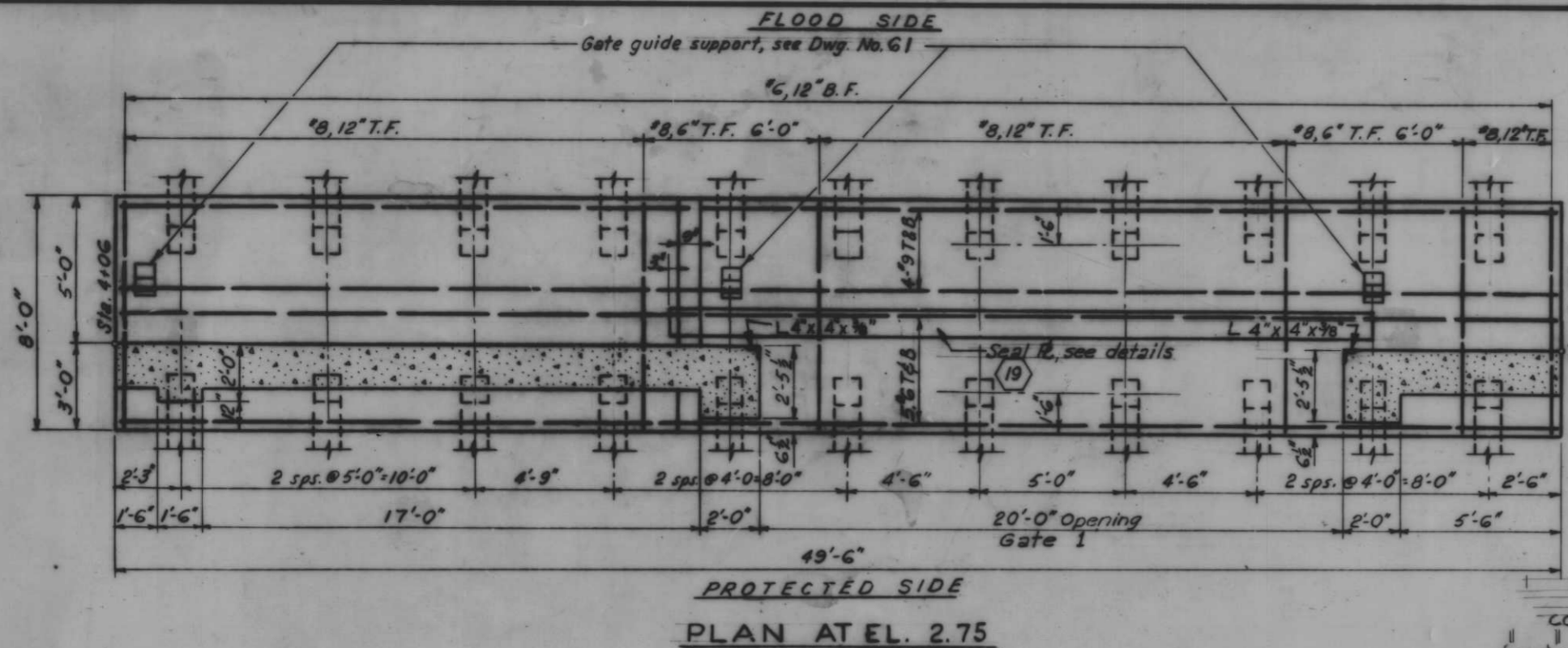
STRUCTURE MODIFICATIONS - LONE STAR CEMENT CO.

MODIFICATIONS TO JONES & LAUGHLIN STEEL WAREHOUSE

AS CONSTRUCTED

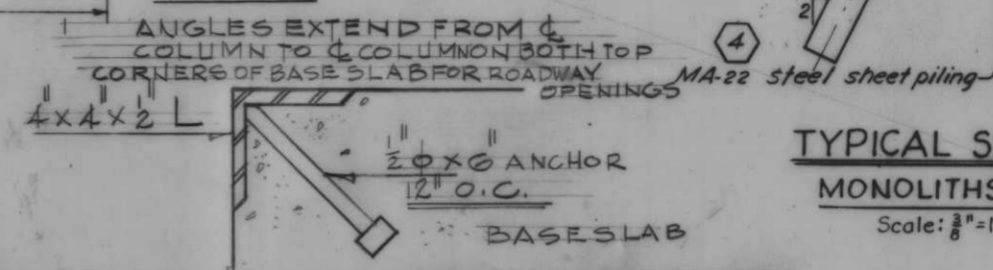
MODIFICATIONS TO J&L STEEL AND LONE STAR CEMENT CO. STRUCTURES

REVISION	DATE	DESCRIPTION	BY
DESIGNED	D.A.M.	DRAWN	E.J.C.
CHECKED	J.S.H.	CODE IDENT. NO.	SIZE
FILE NO.	H-4-24263		
DATE:	SCALE: SHOWN	SPEC. NO. DACW-	DWG. NO. 36 OF 78



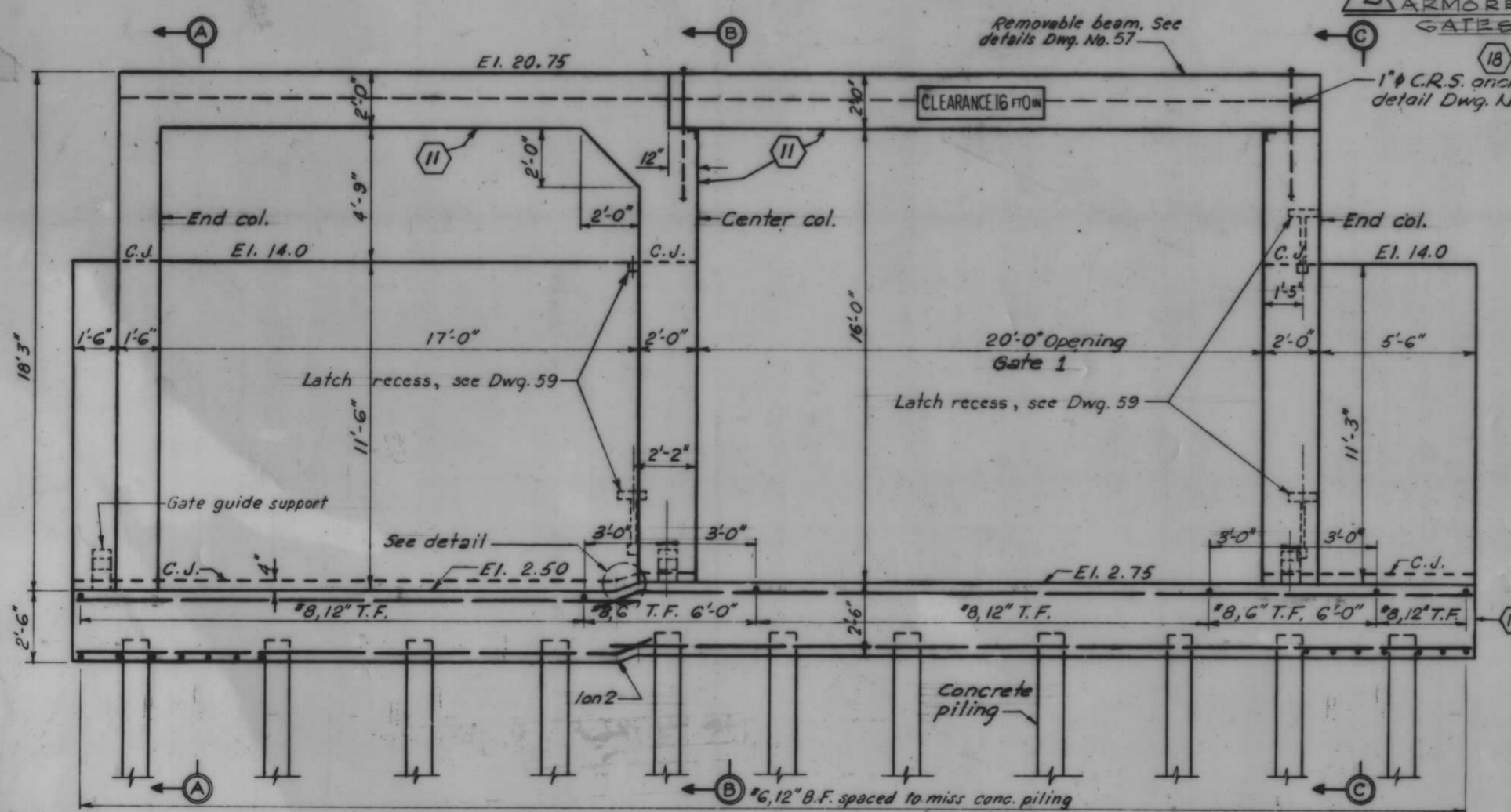
PLAN AT EL. 2.75

NOTE: ANGLES EXTEND FROM COLUMN TO COLUMN BOTH TOP AND CORNERS OF BASE SLAB FOR ROADWAY OPENINGS



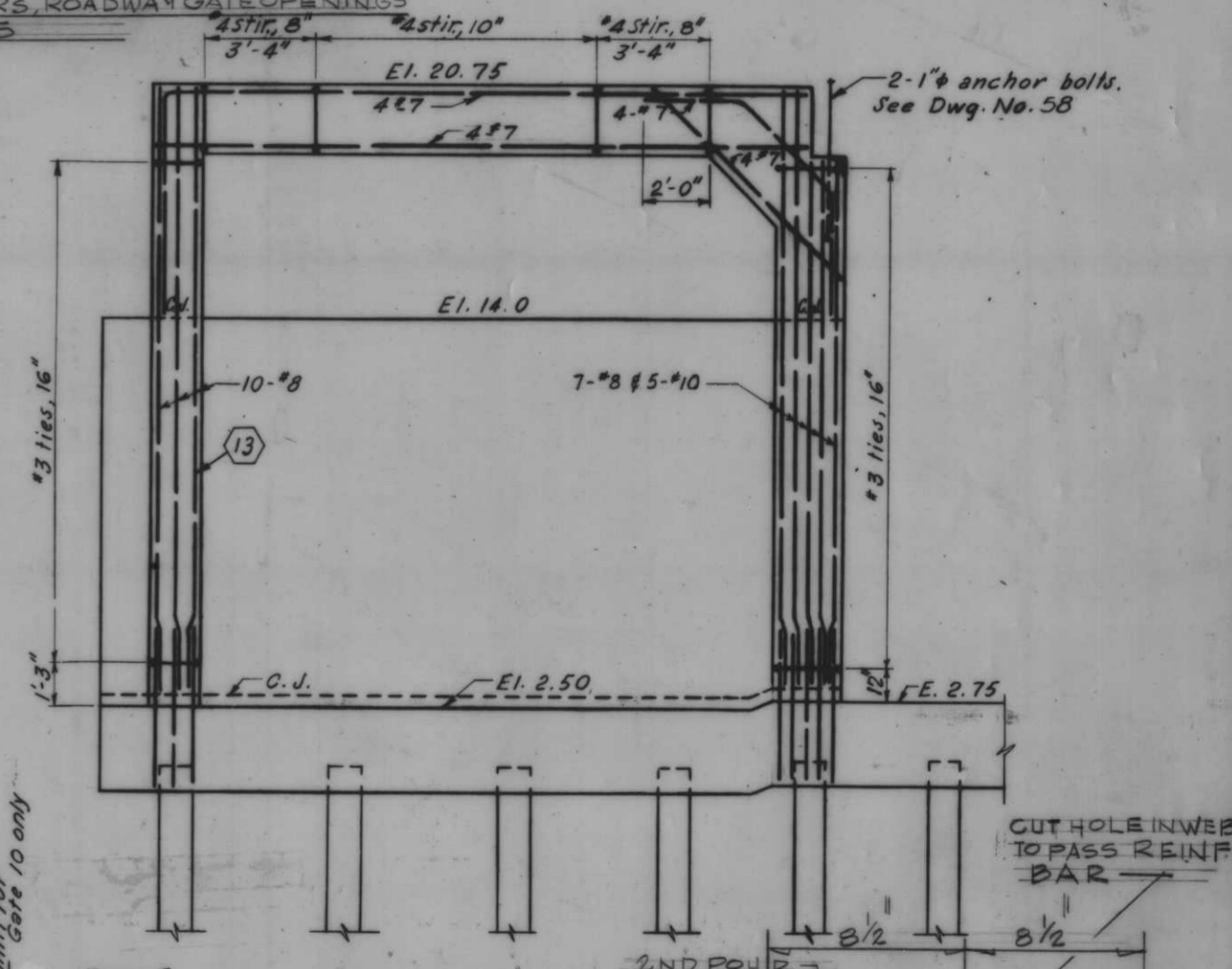
TYPICAL SECTION MONOLITHS 14, 15, 16

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



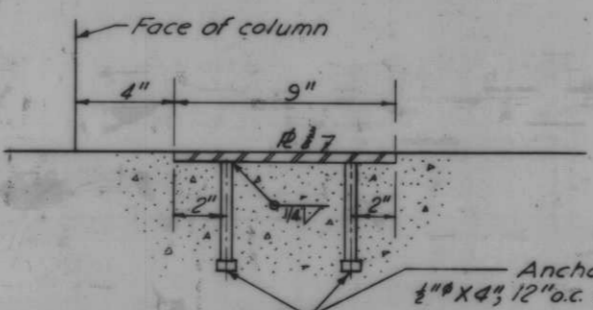
PROTECTED SIDE ELEVATION

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



STORAGE MONOLITH REINF.

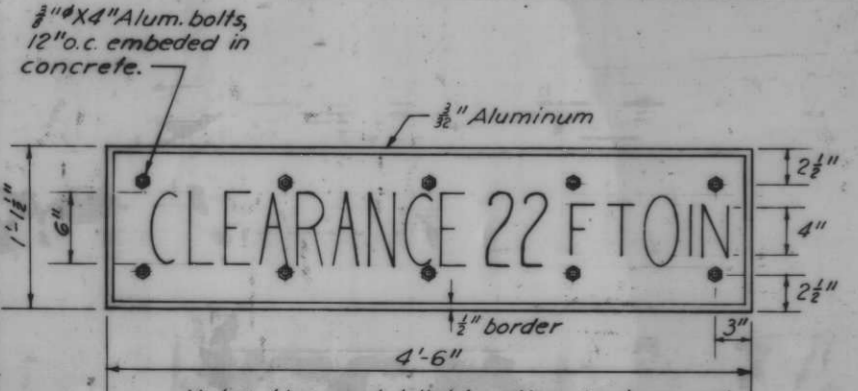
Scale: 3/8" = 1'-0"



TYPICAL DETAIL OVERHEAD ROLLER GATE SEAL PLATE

Scale: 3" = 1'-0"

NOTE: R.S. IN REV. Δ SET WITHIN 1/8" VERT. TOLERANCE, FOR THE LENGTH OF THE SEAL PLATE



VERTICAL CLEARANCE SIGNS

Scale: 1 1/2" = 1'-0"

Note: Use scotchlight yellow background with 3/8" width black letters. Sign to be put on flood and protected side of overhead beams. See table for vert. clearance.

GATE NO.	VERTICAL CLEARANCE
1	16'-0"
2	16'-0"
4	16'-0"
5	16'-0"
7	22'-0"
10	22'-0"
12	16'-0"
14	16'-0"
15	16'-0"

AS CONSTRUCTED

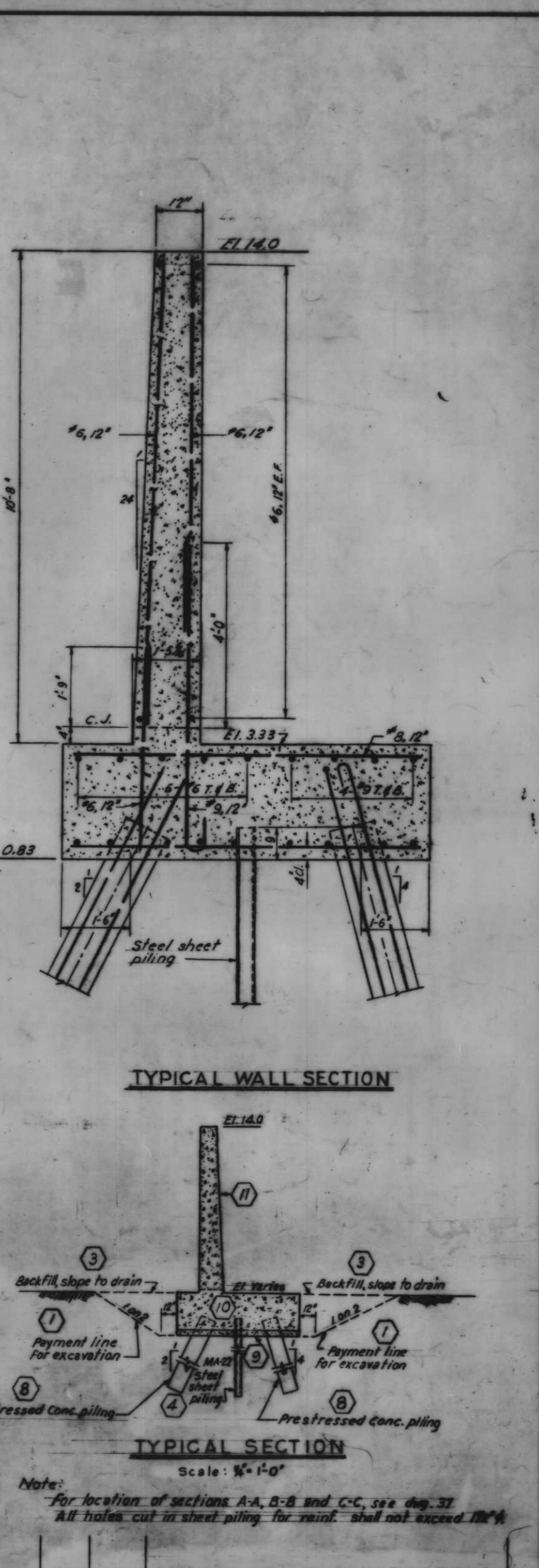
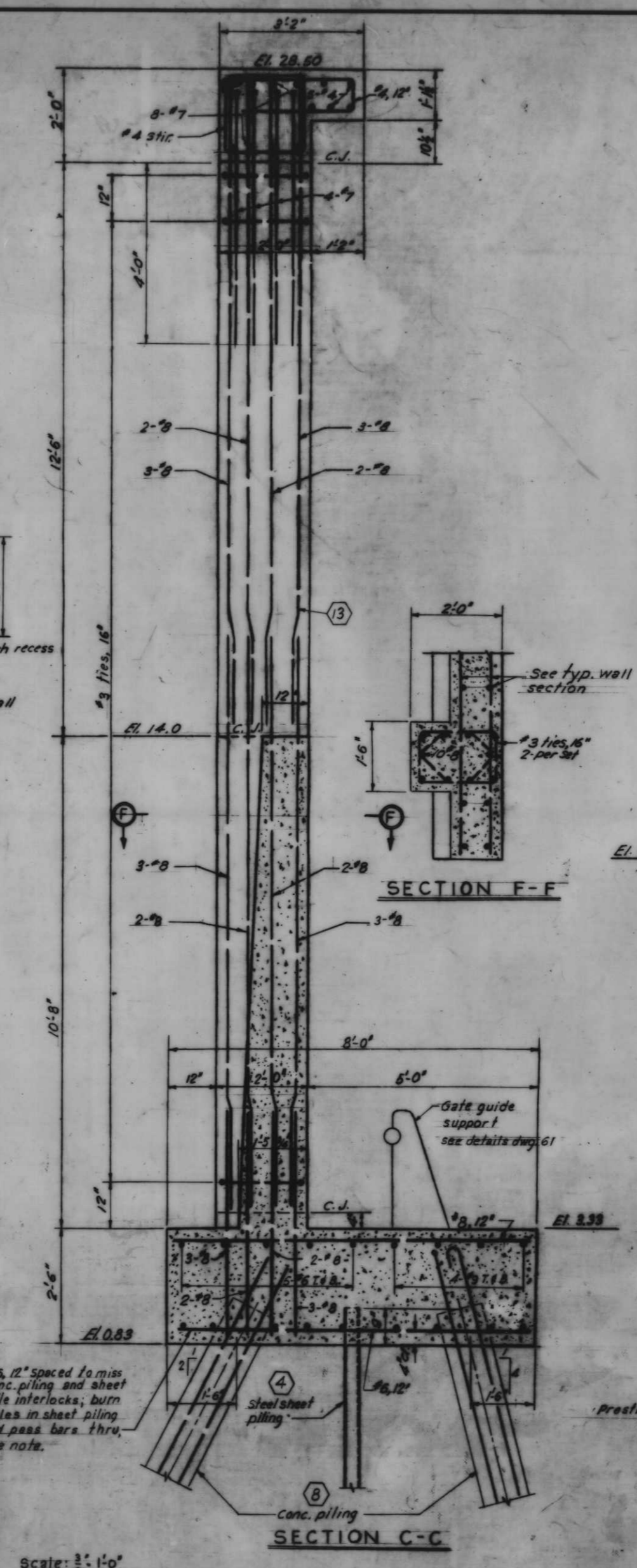
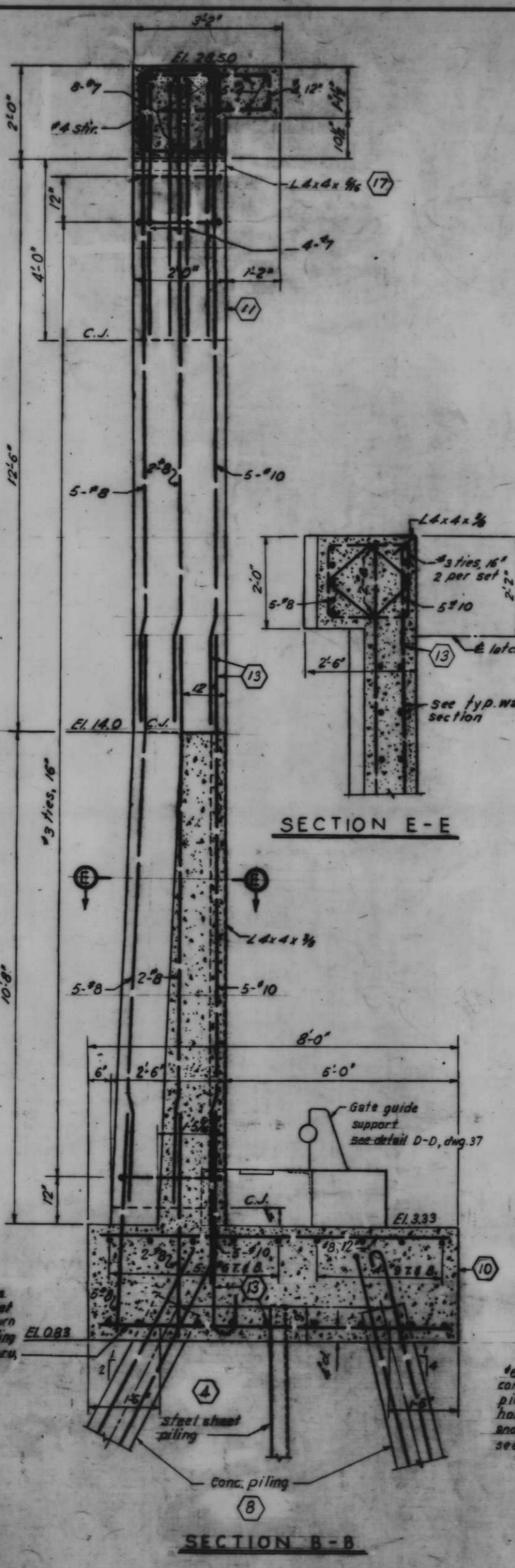
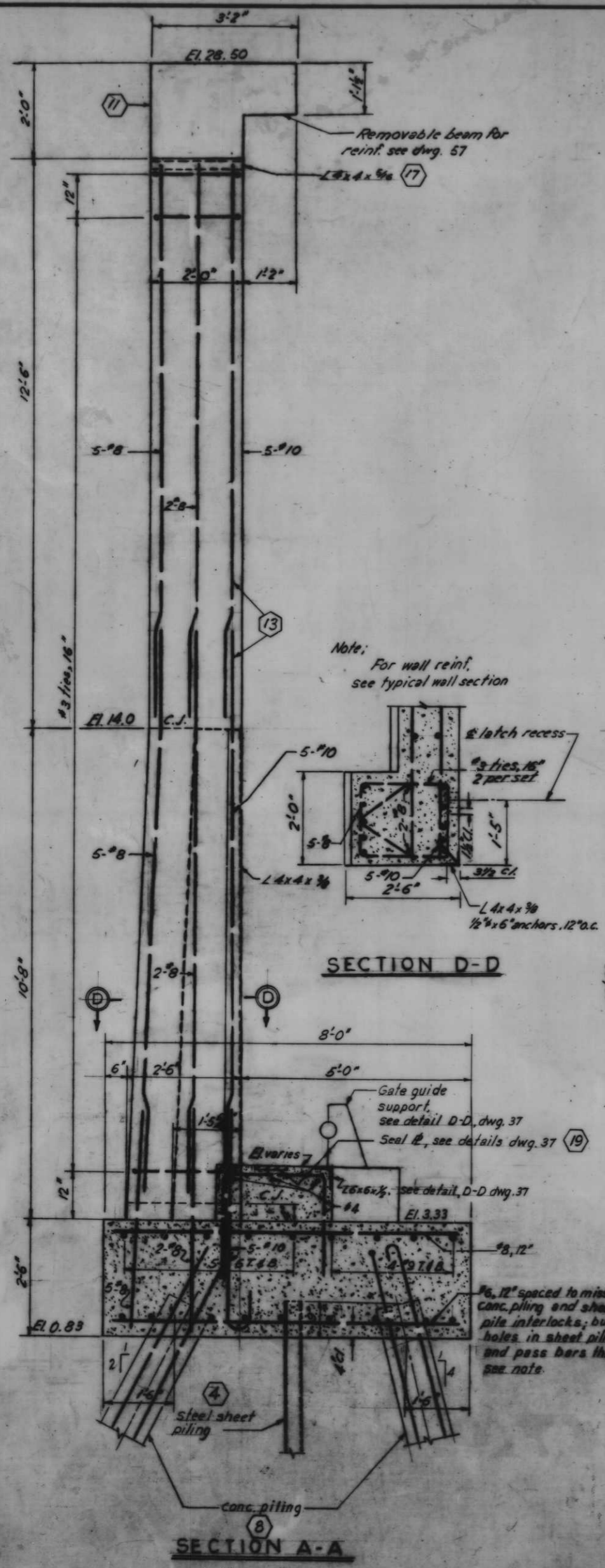
MONOLITH 15 - GATE 1

REVISION	DATE	DESCRIPTION	BY
1		SEAL PL. MOD. GATES 10, 12, 14	
2	2.17.72	ARMORED CORNERS	

DESIGNED	DRAWN	CHECKED	CODE IDENT. NO.	SIZE	FILE NO.
D.A.M.	E.J.C.	H.U.			

H-4-24263

DATE: SCALE: SHOWN: SPEC. NO. DATED: DWG. NO. 37 OF 78



AS CONSTRUCTED

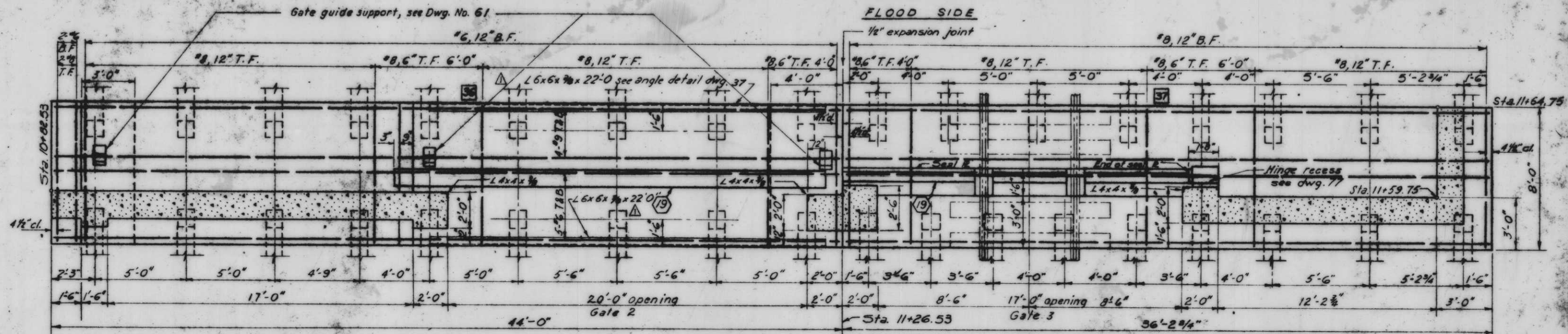
MONOLITH 33 - GATE 1

REVISION	DATE	DESCRIPTION	BY
1	9-20-69	Deleted gate in mono. 18 and relocated gate in mono. 33	FJK
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			

H-4-24263

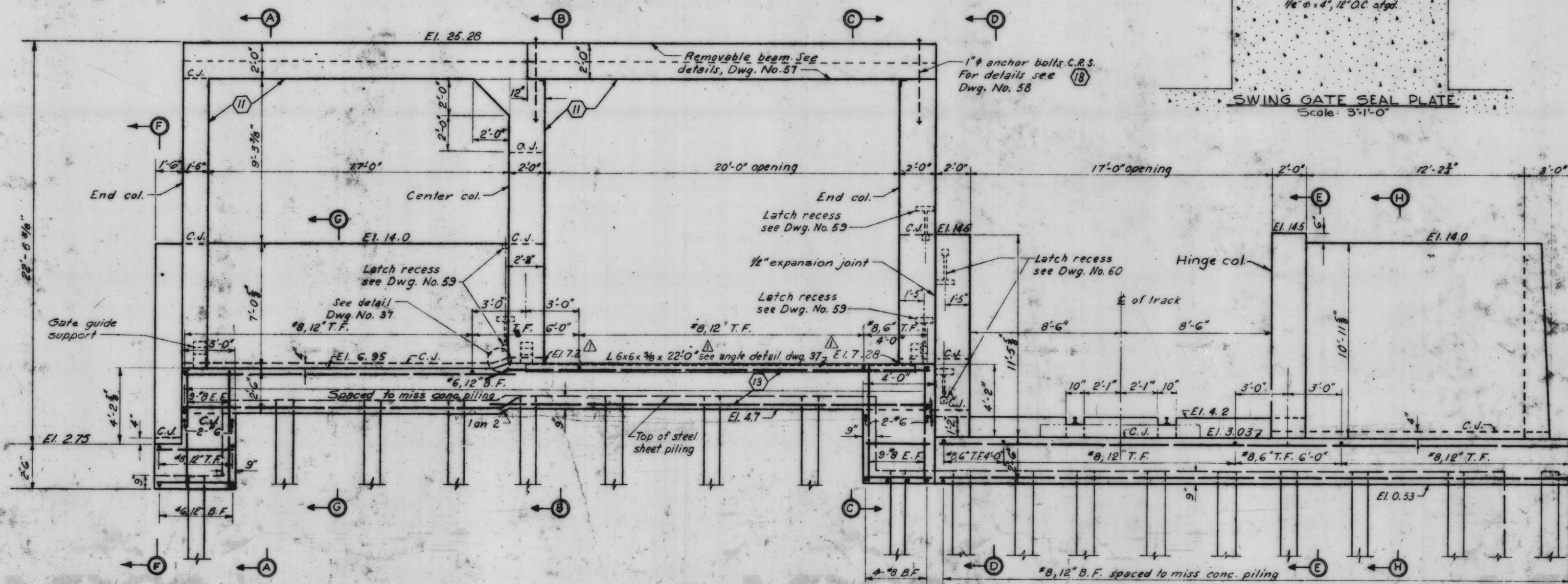
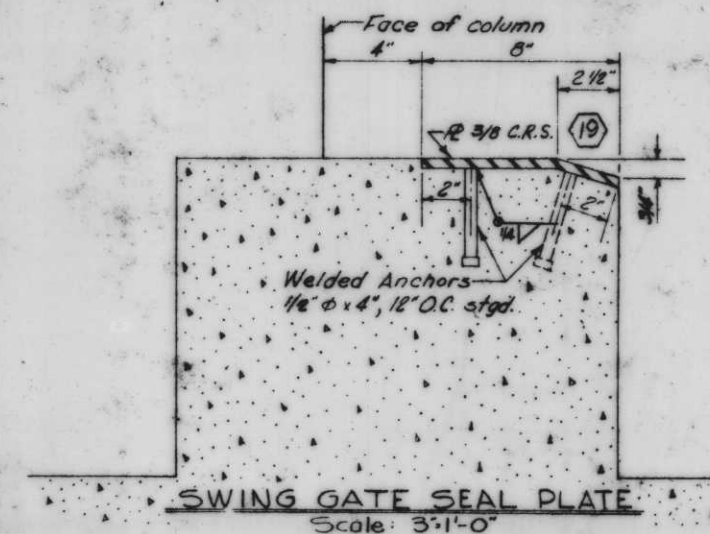
DATE: _____

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



PLAN AT EL. 7.2

PROTECTED SIDE



PROTECTED SIDE ELEVATION

Scale 3/8"=1'-0"

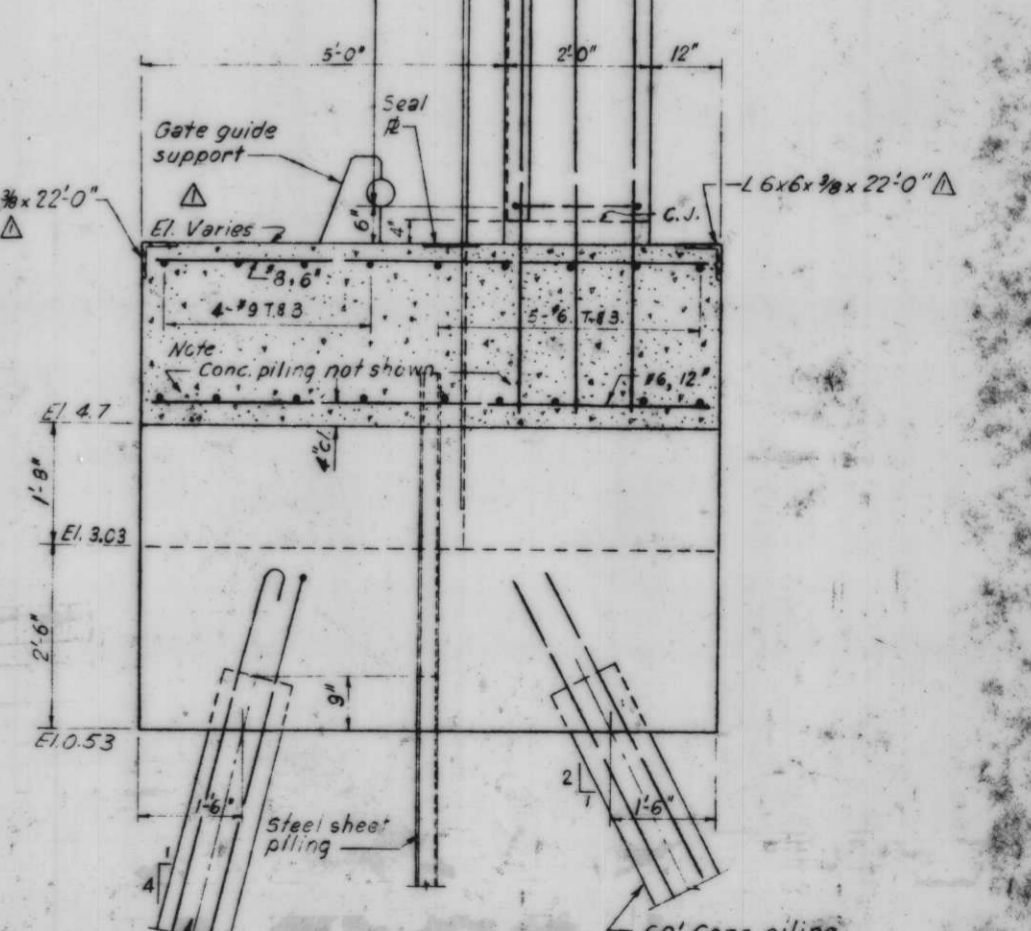
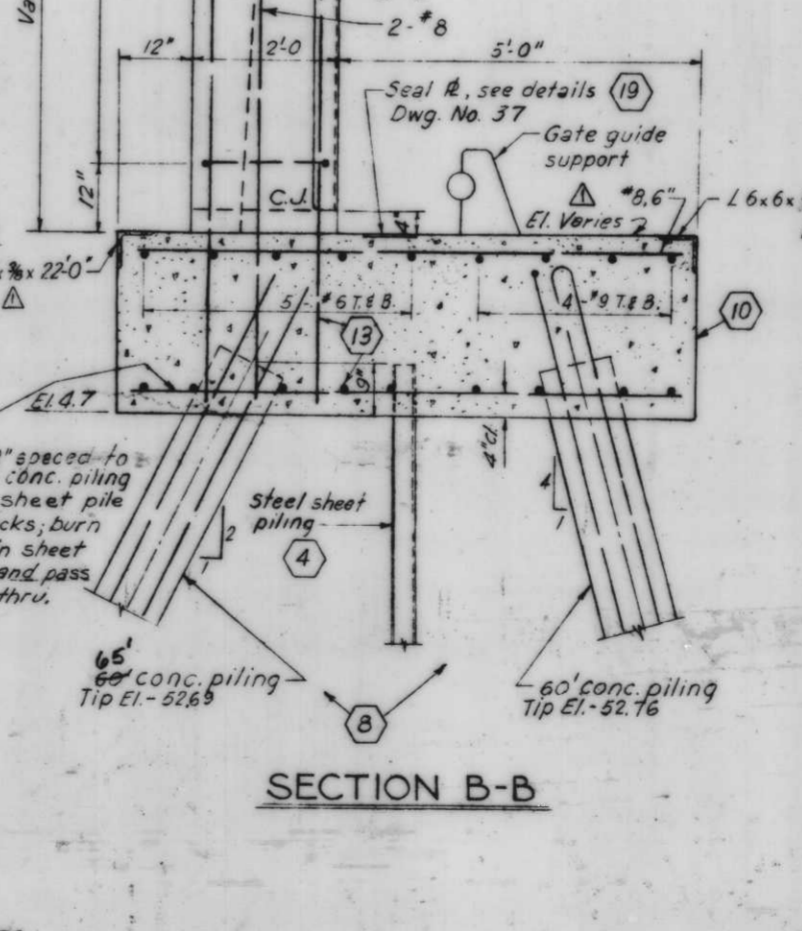
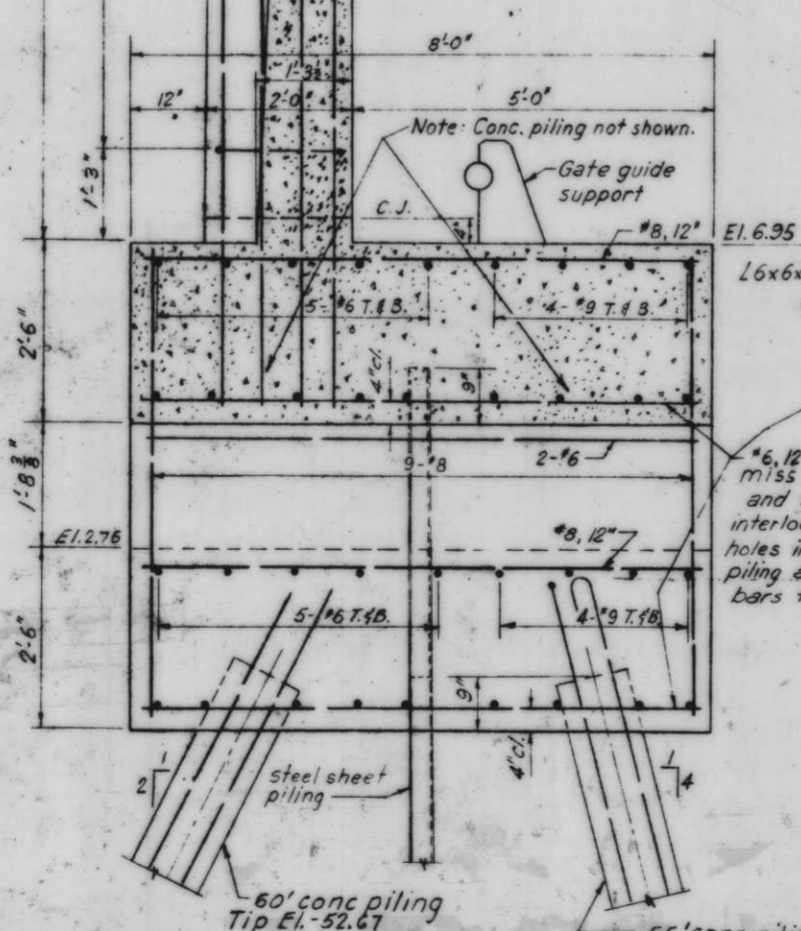
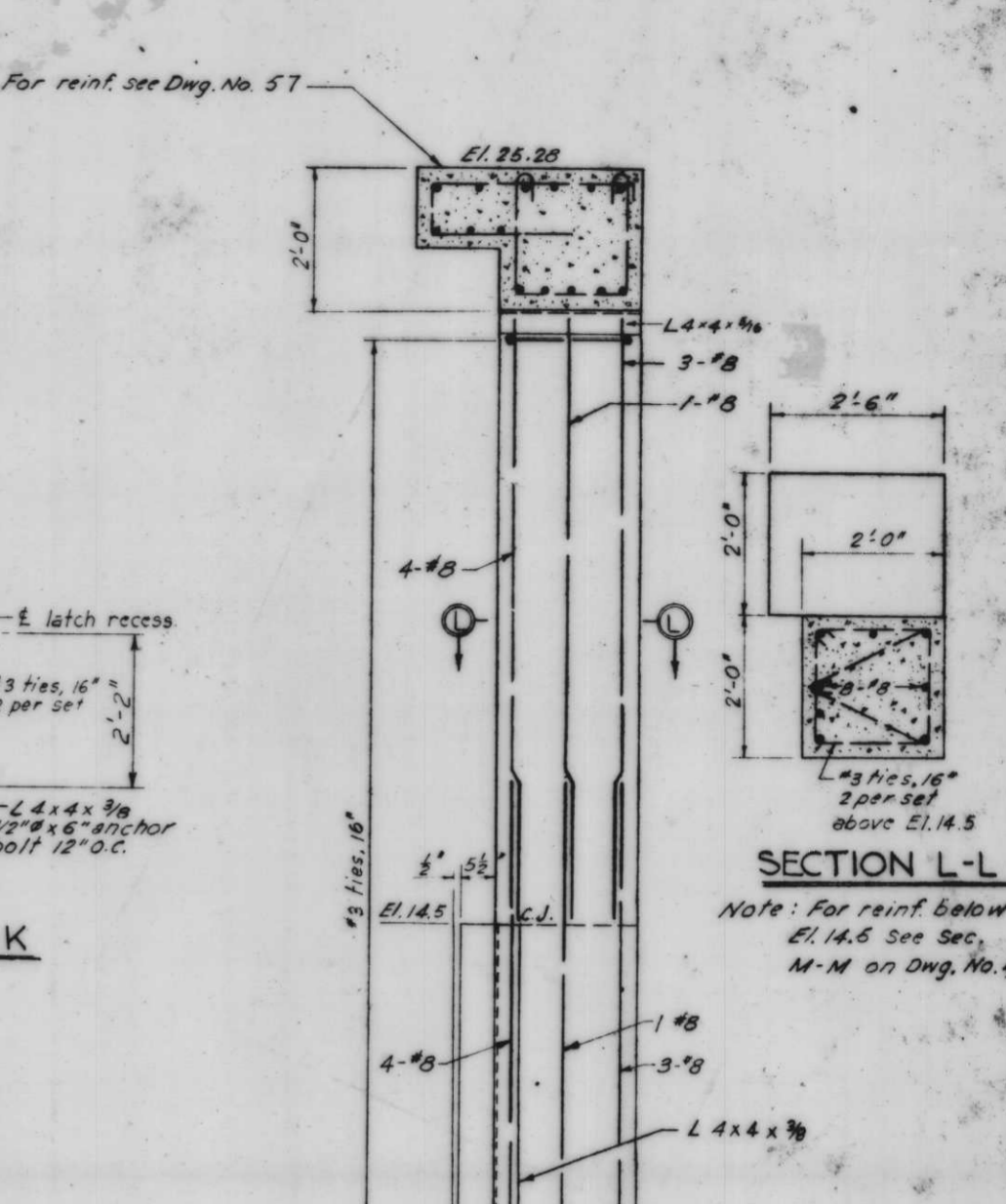
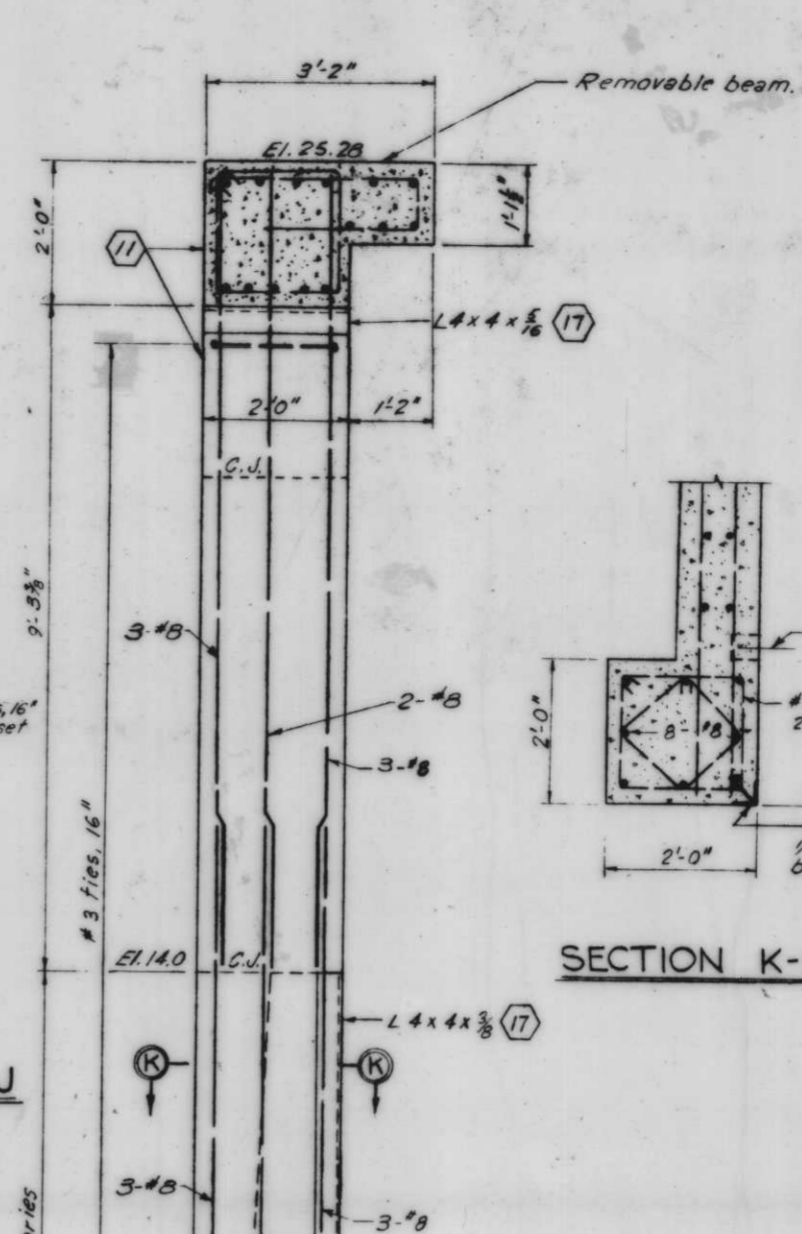
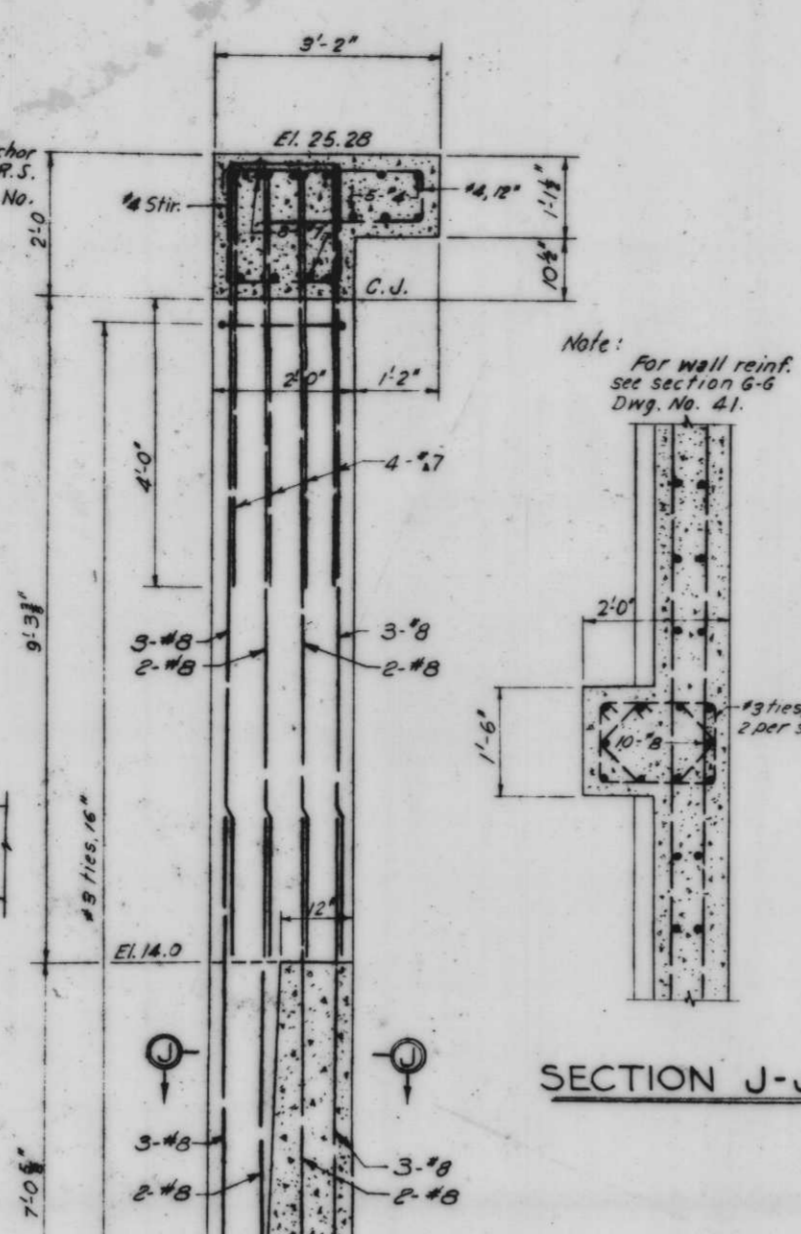
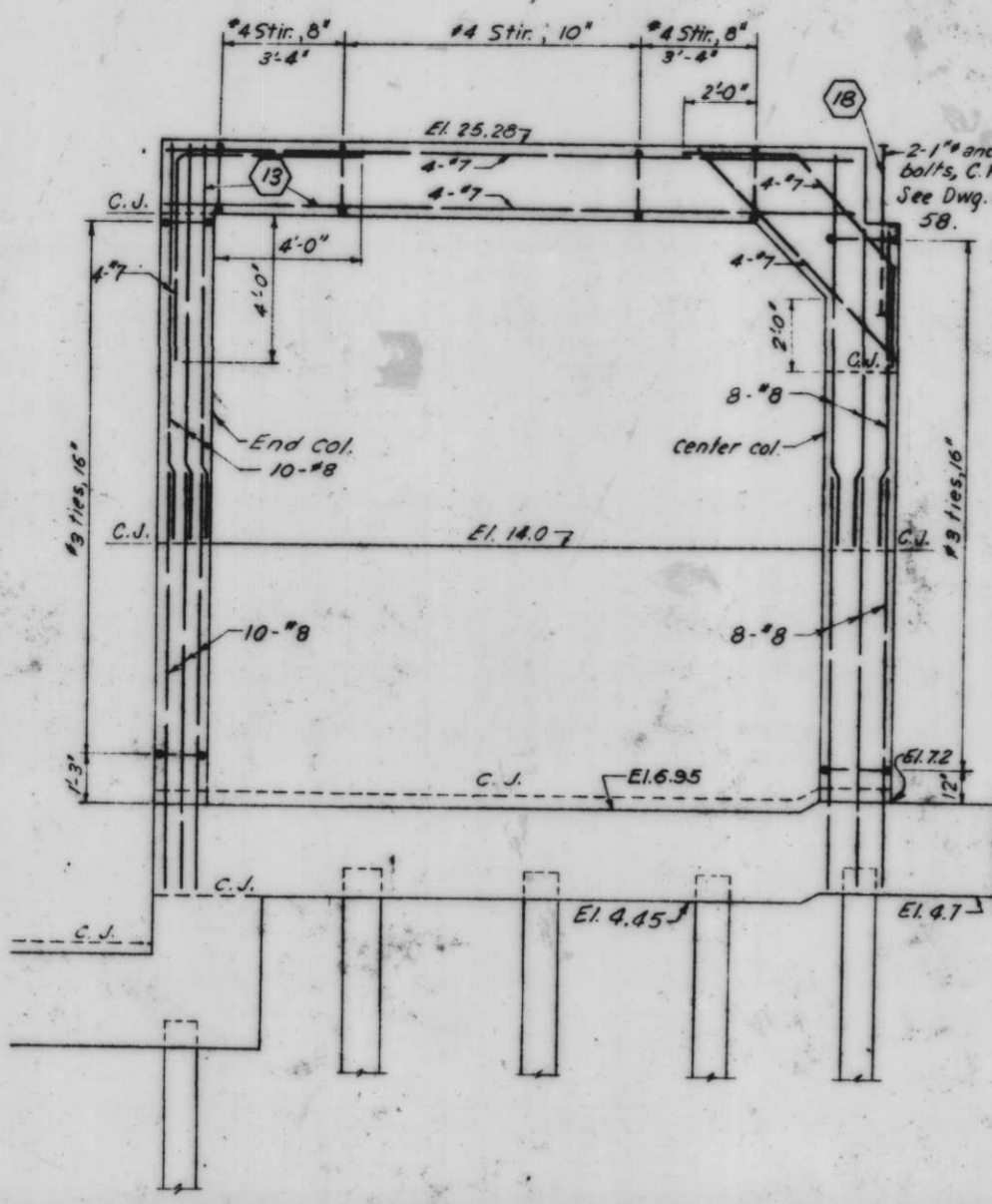
Note:
For general notes, see Dwg. No. 4.
All holes cut in sheet piling for reinf. shall not exceed 1 1/2" φ.

11 13 18 19

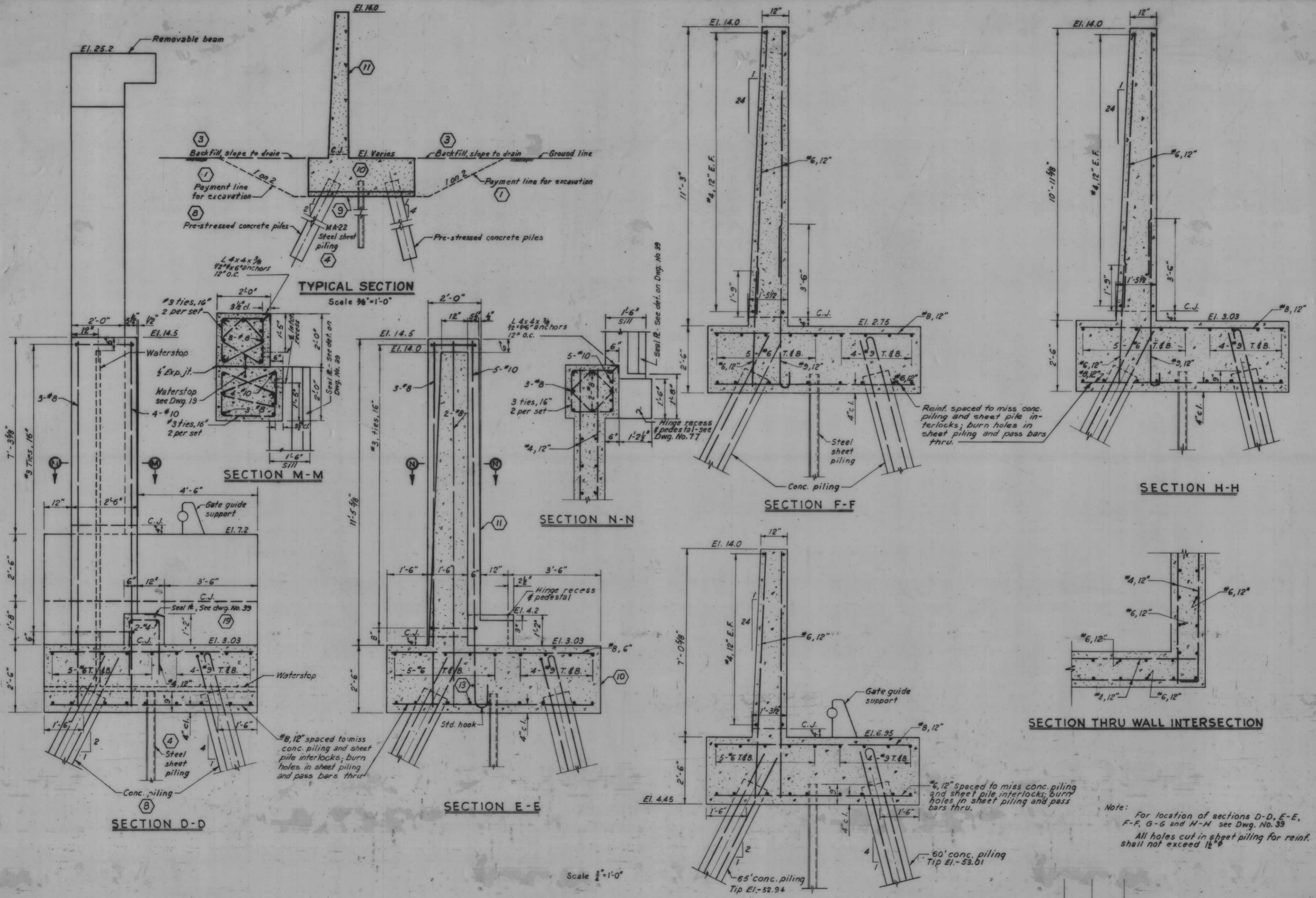
MONOLITHS 36 AND 37 - GATE 2 AND 3

REVISION	DATE	DESCRIPTION
1	7-17-69	Revised sill elevation & added angle

DESIGNED	DRAWN	CHECKED	CODE IDENT. NO.	SIZE	FILE NO.
D.A.M.	D.J.H.	H.U.			H-4-24263



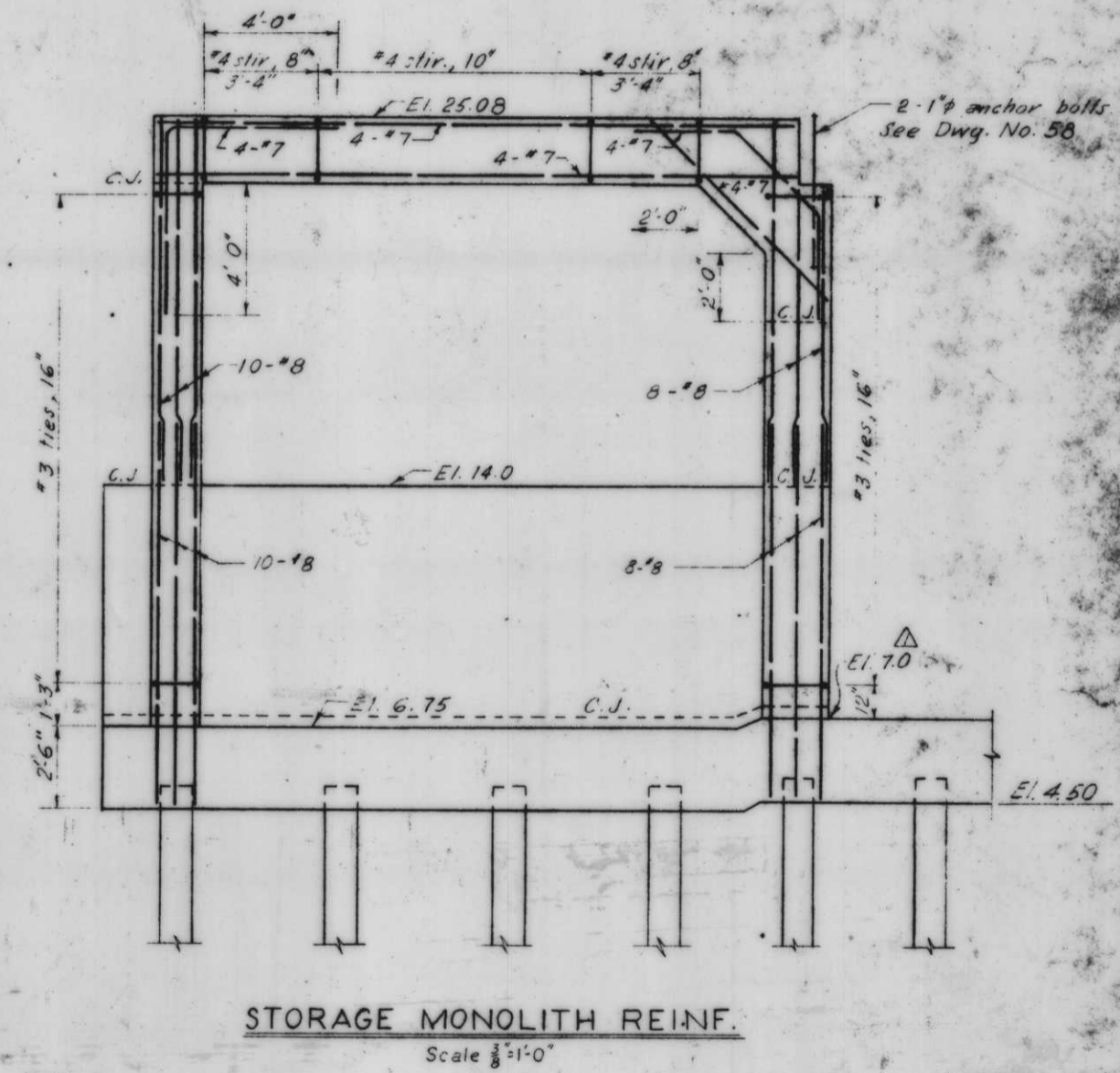
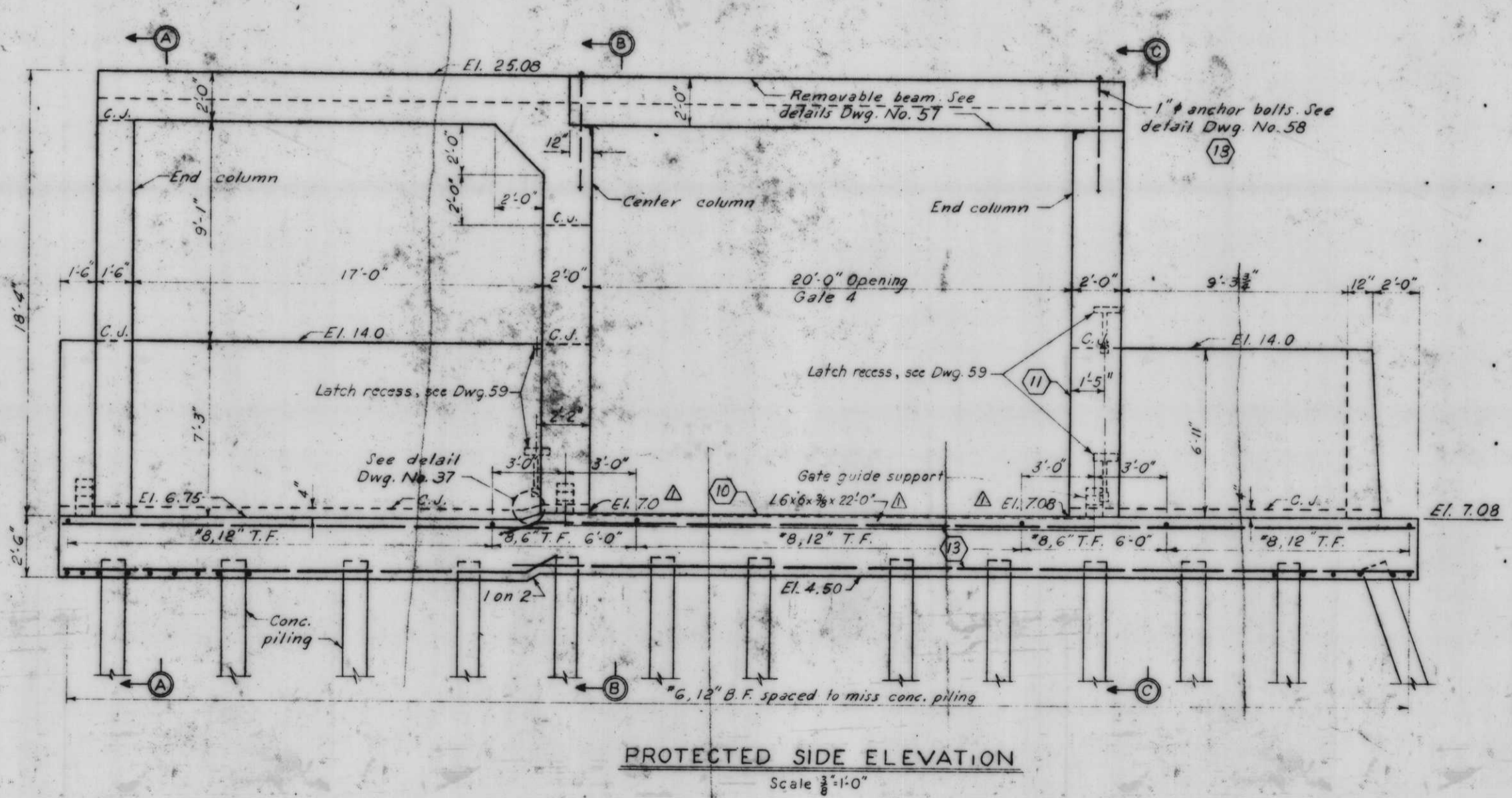
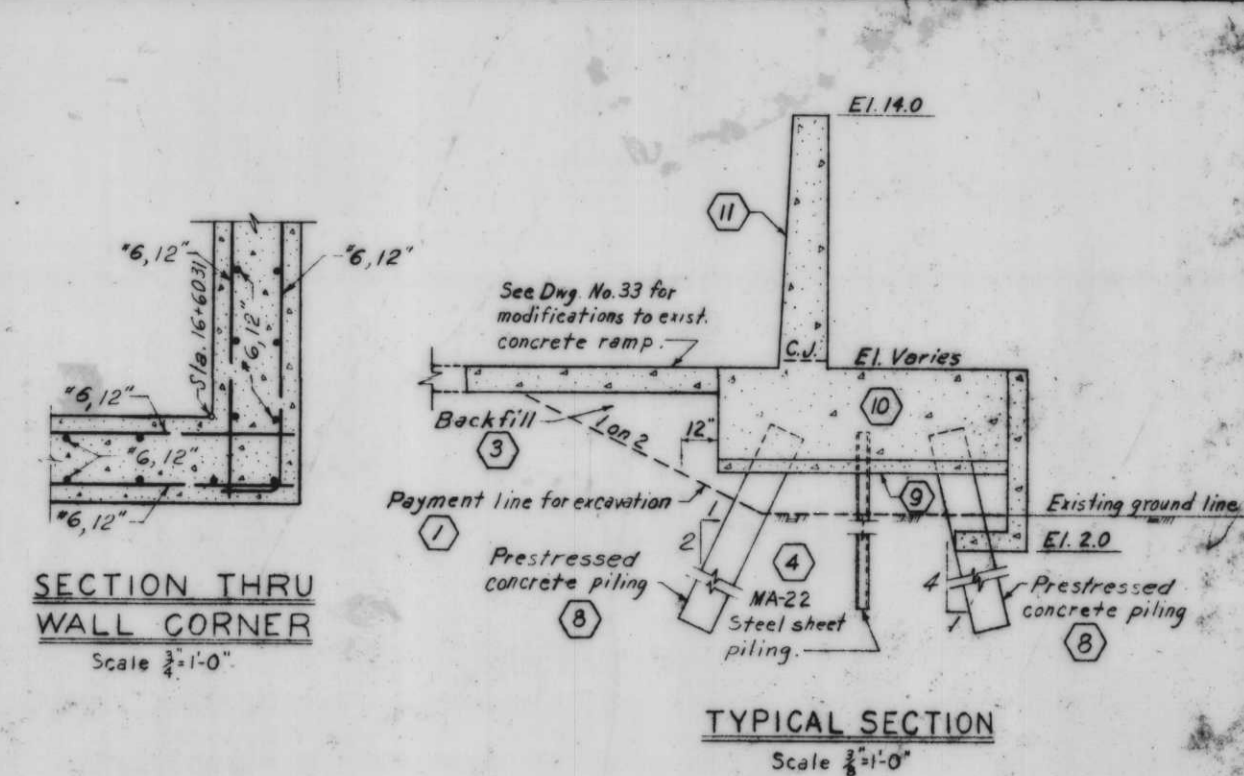
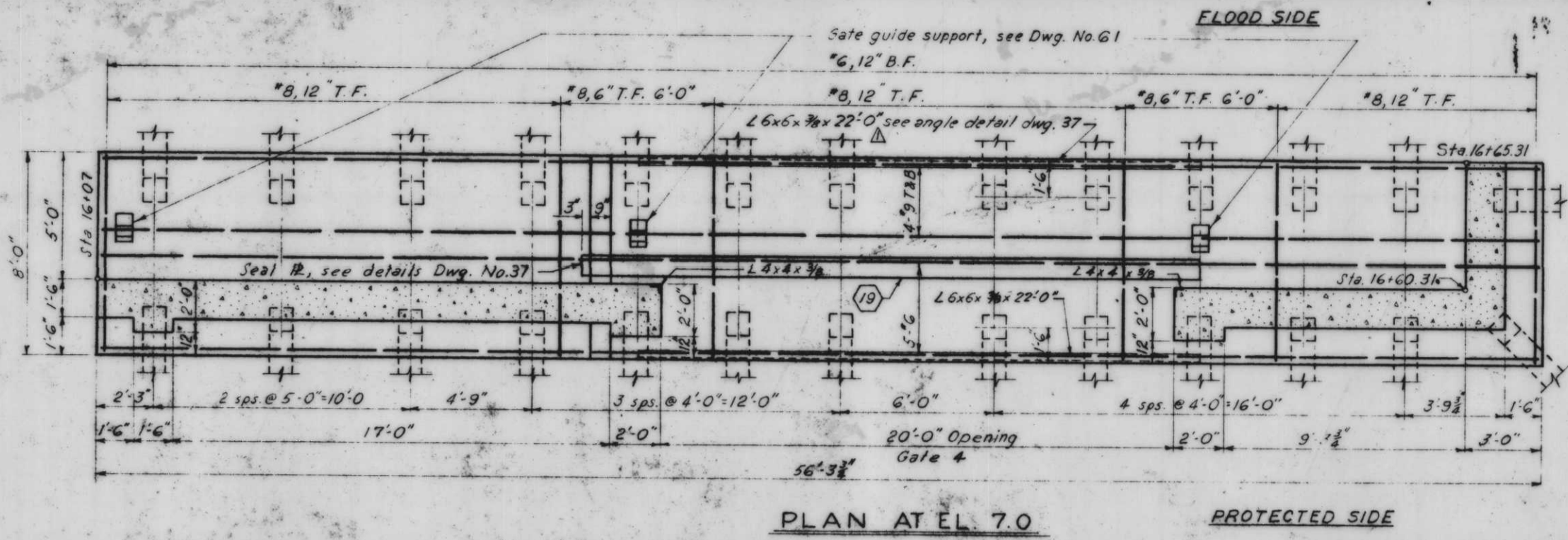
Note: For location of sections A-A, B-B and C-C, see Dwg. No. 39. All holes cut in sheet piling for reinf. shall not exceed 1/2" dia.



AS CONSTRUCTED

SECTION G-G 1 3 4 8 9 10 11 13 19
MONOLITHS 36 & 37-GATE 2 AND 3

REVISION	DATE	DESCRIPTION	BY
DESIGNED	D.A.M.	DRAWN	E.J.C.
CHECKED	H.U.	CODE IDENT. NO.	SIZE
FILE NO.	H-4-24263		
DATE:	SCALE: SHOWN	SPEC. NO. DAWES-	DWG. NO. 41 OF 78



Note:
For general notes, see Dwg. No. 4.
All holes cut in sheet piling for reinf. shall not exceed 1 1/2" ϕ

7-17-69 Revised sill elevations & 50000 sq. ft.

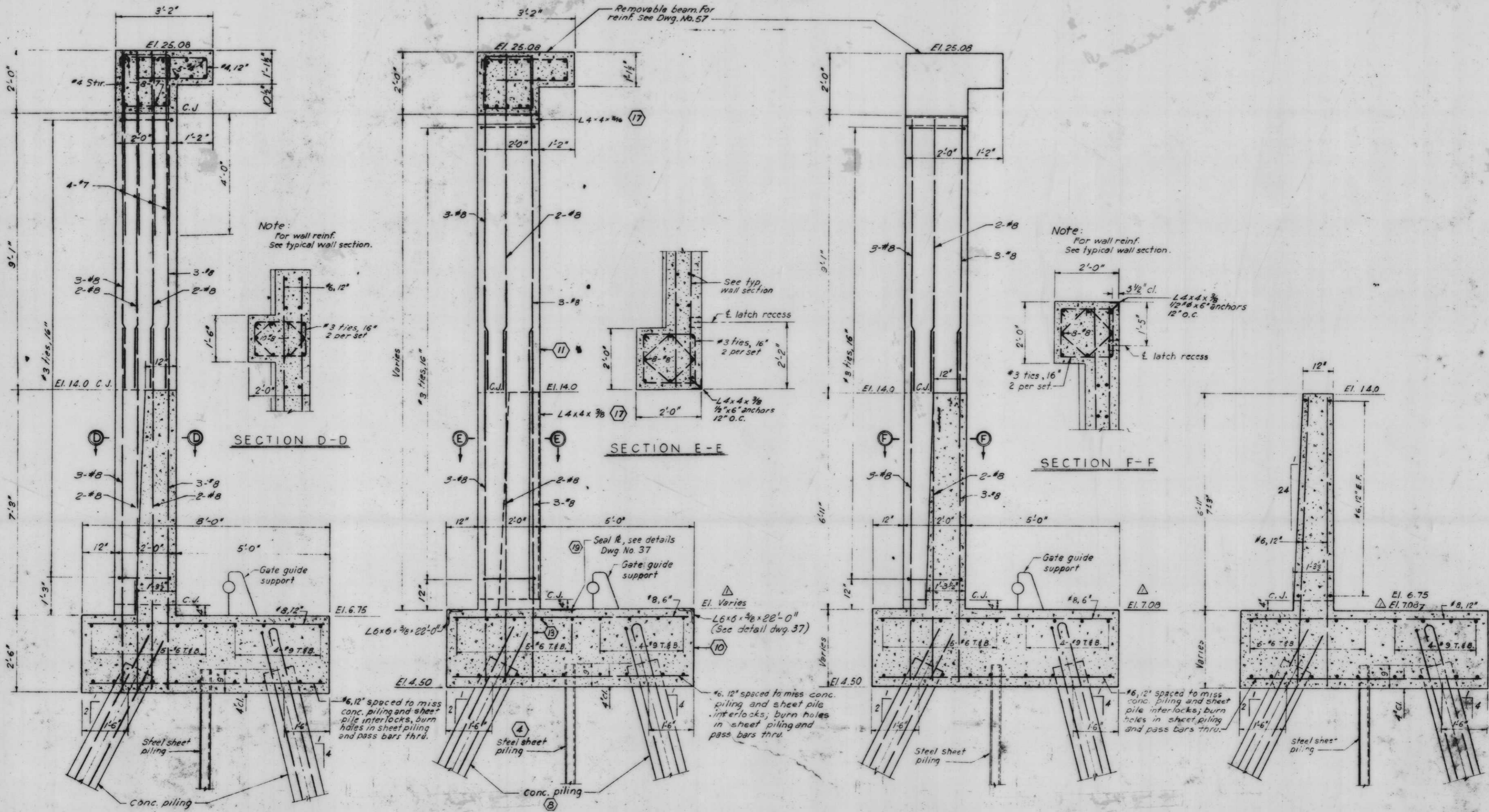
REVISION	DATE	DESCRIPTION
DESIGNED	D.A.M.	DRAWN
CHECKED	D.J.H.	H.U.
CODE IDENT. NO.		
SITE FILE NO.		

H-4-24263

MONOLITH 49-GATE 4

SCALE SHOWN SPEC NO. DAWSES DWG NO. 42 OF 78

IHNC, WEST LEVEE, FLA. AVE TO IHNC LOCK-FLOODWAY



SECTION A-A

SECTION B-B

SECTION C-C

SECTION D-D

SECTION E-E

SECTION F-F

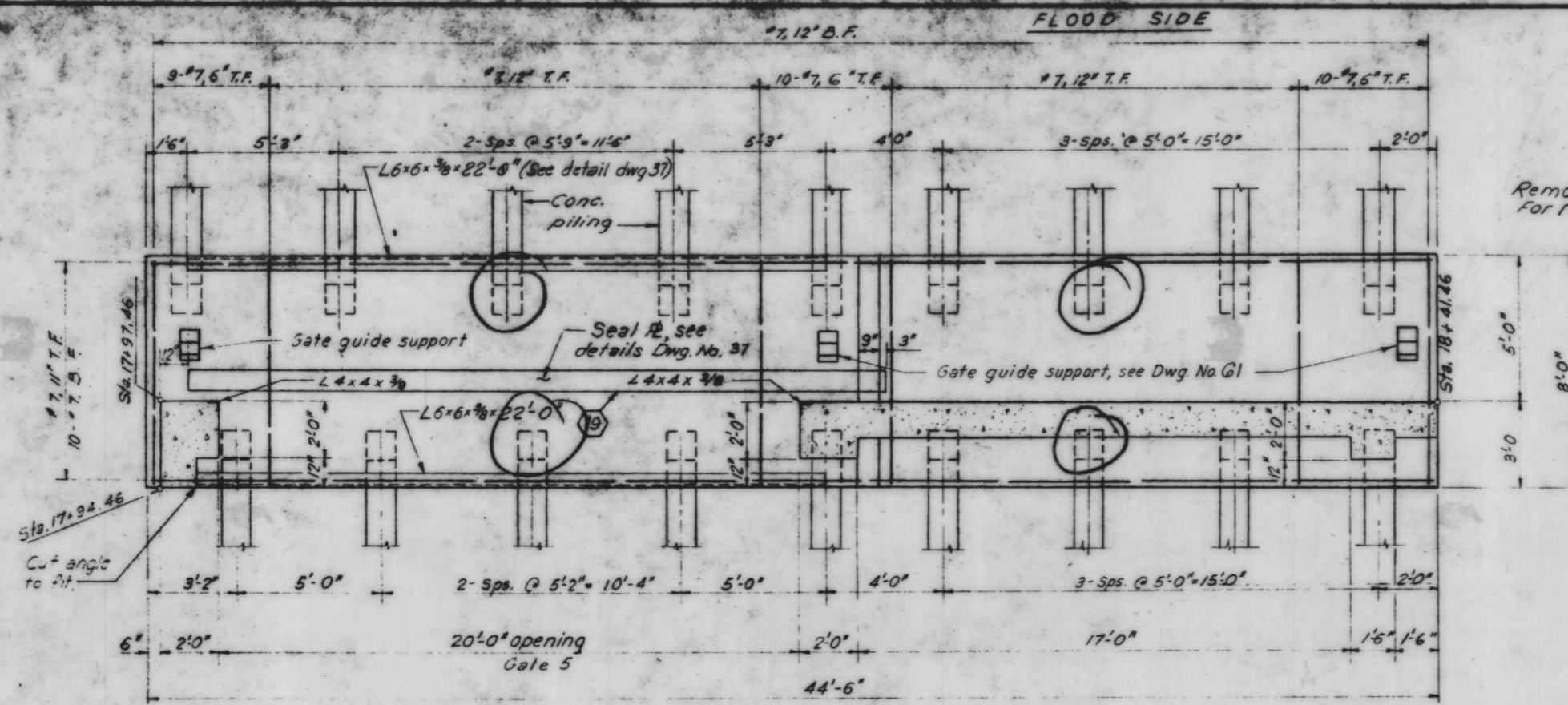
TYPICAL WALL SECTION

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

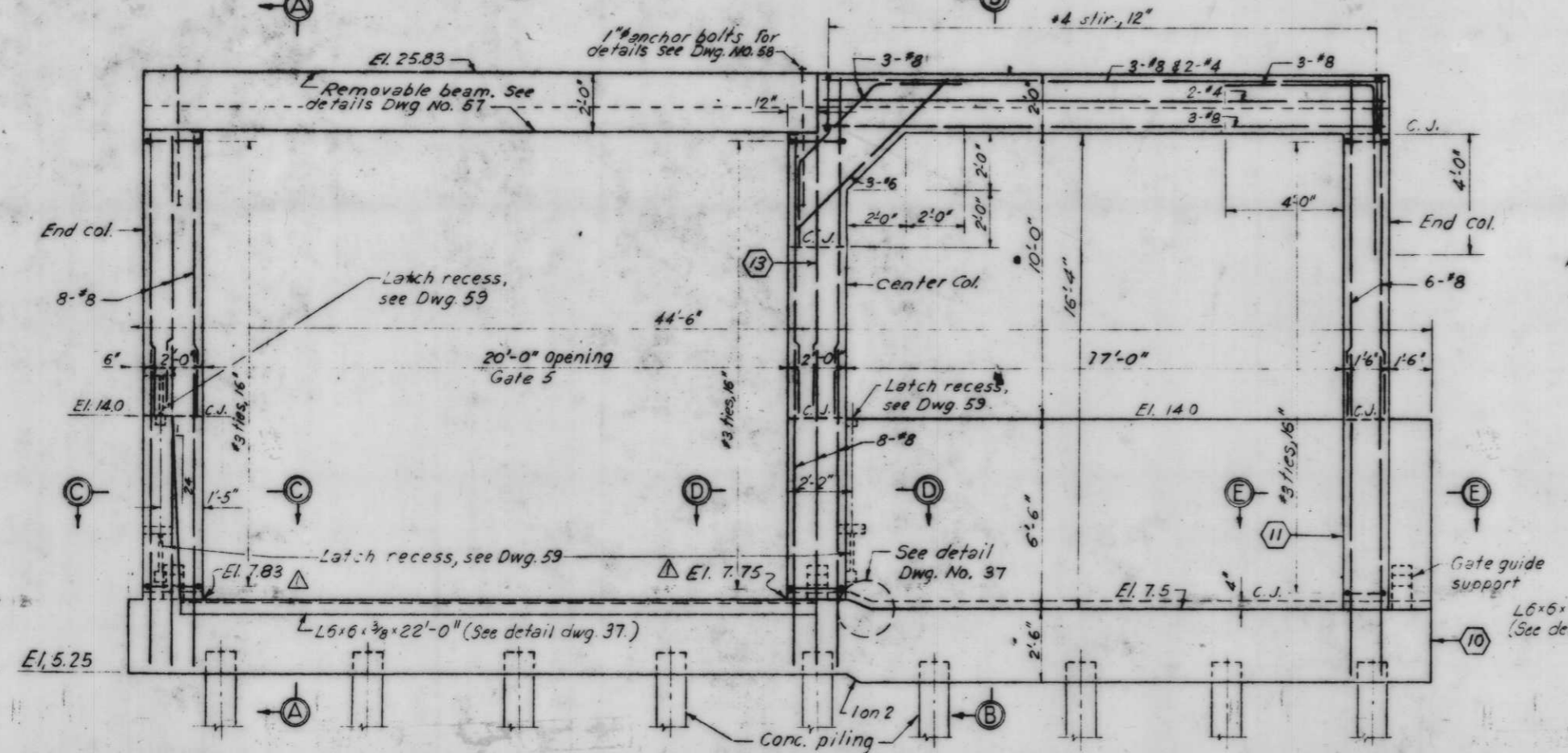
Note:
For location of sections A-A, B-B and C-C, see Dwg. No. 42.
All holes cut in sheet piling for reinf. shall not exceed 1/2" φ.

MONOLITH 49-GATE 4

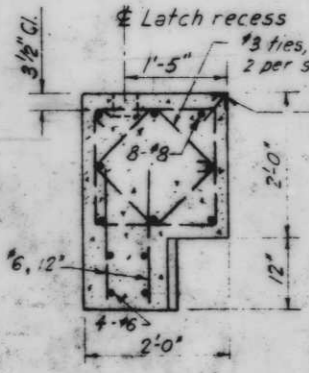
DESIGNED	DRAWN	CHECKED	CODE IDENT. NO.	SIZE	FILE NO.
D.A.M.	E.J.C.	H.U.			H-4-24263
DATE	SCALE SHOWN	SPEC NO.	DATE	SCALE	NO. 43



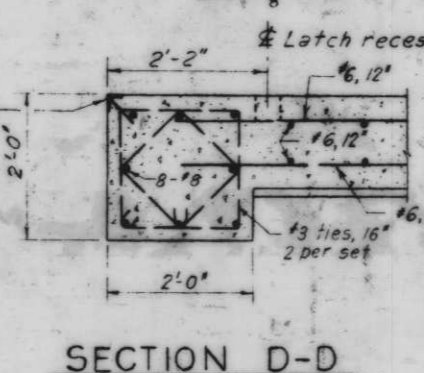
PLAN AT EL. 7.75
Scale: 1/8" = 1'-0"



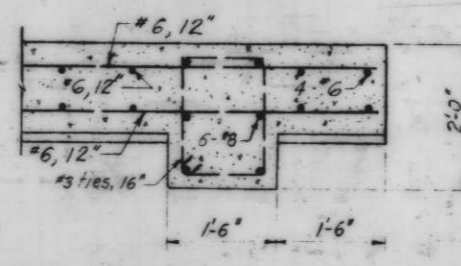
PROTECTED SIDE ELEVATION
Scale: 3/8" = 1'-0"



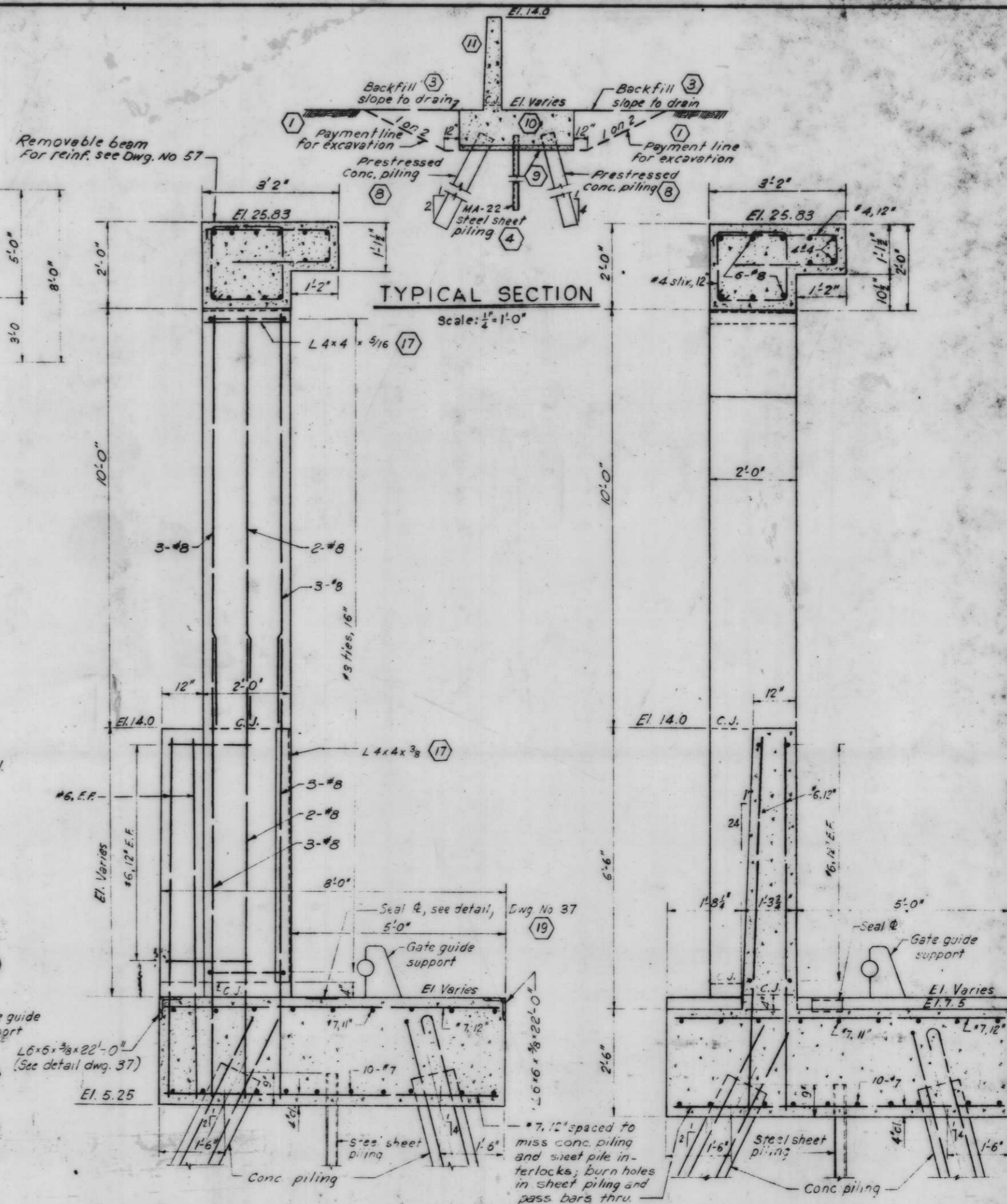
SECTION C-C



SECTION D-D



SECTION E-E



TYPICAL SECTION
Scale: 1/4" = 1'-0"

SECTION A-A

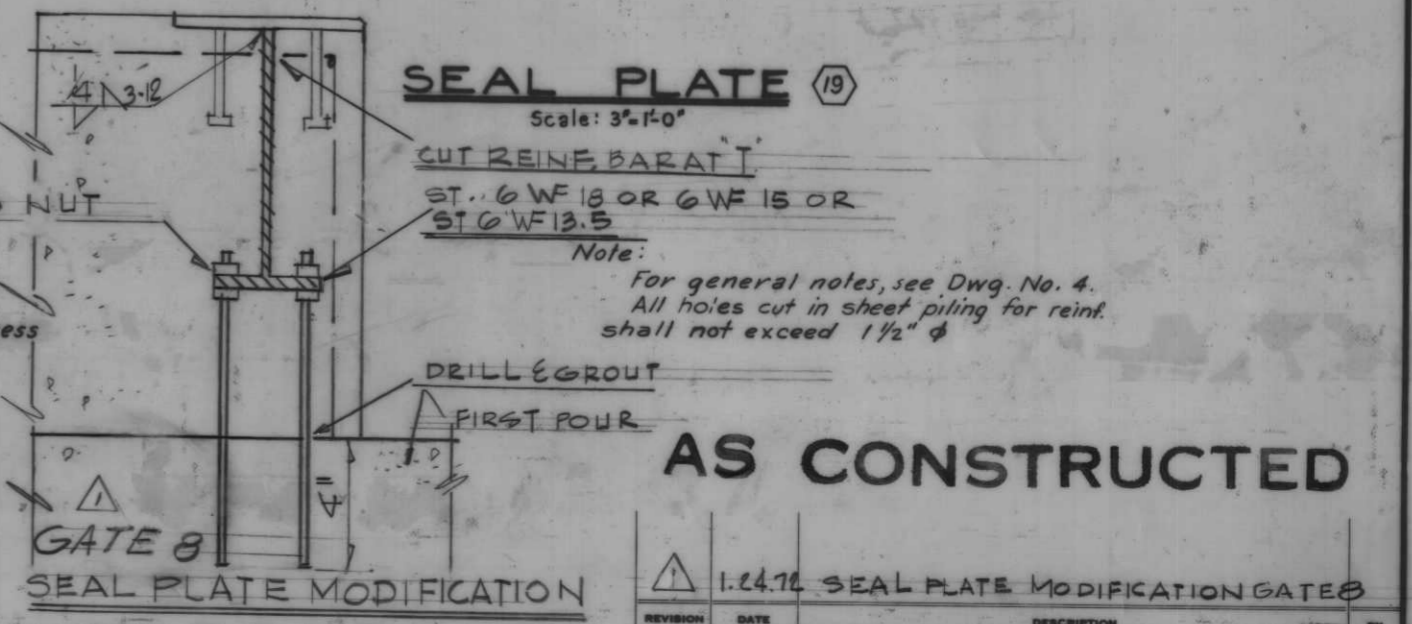
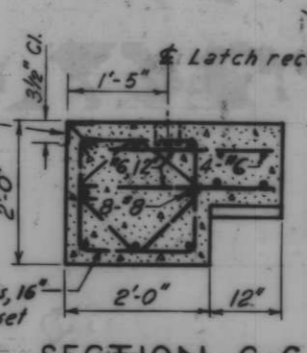
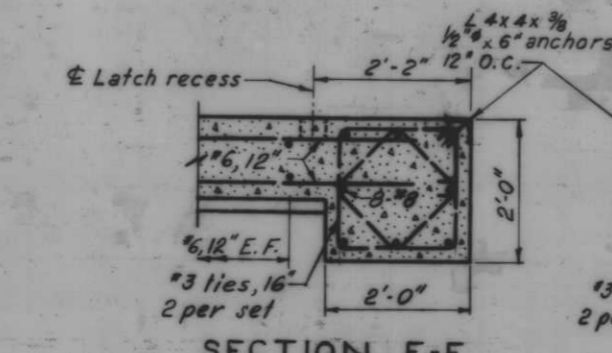
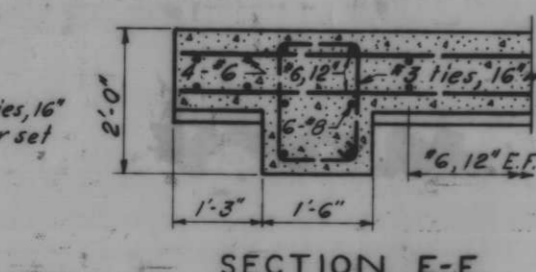
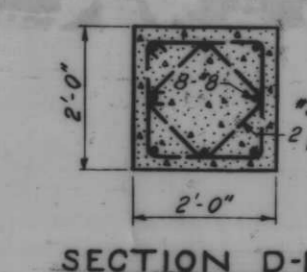
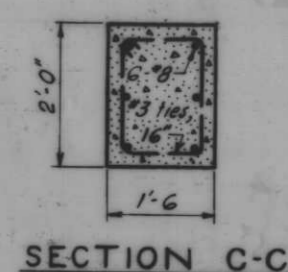
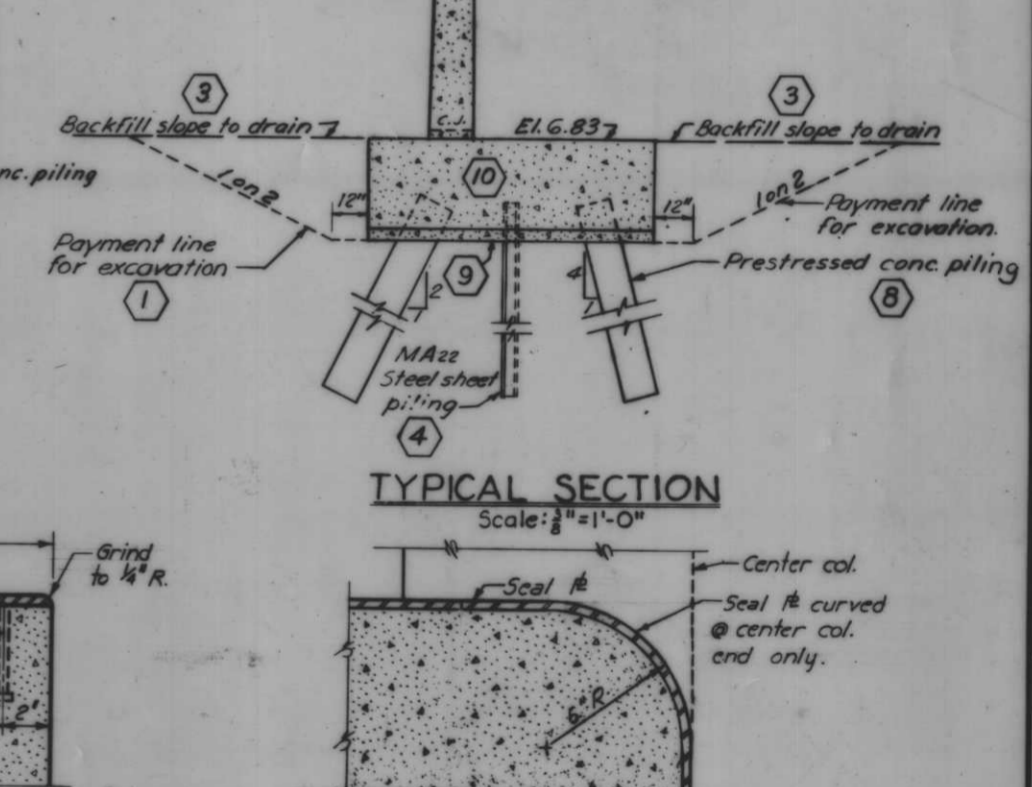
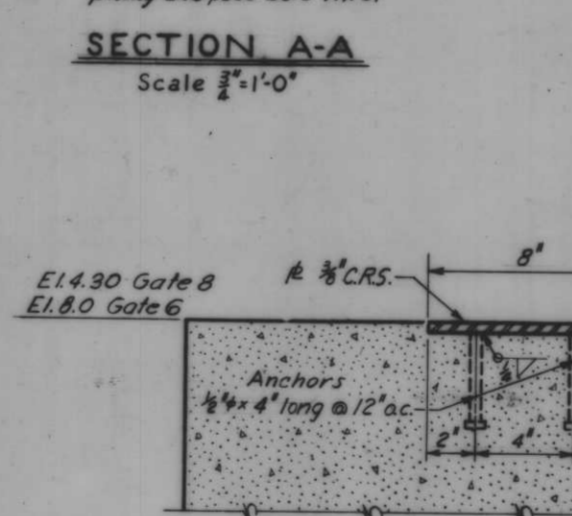
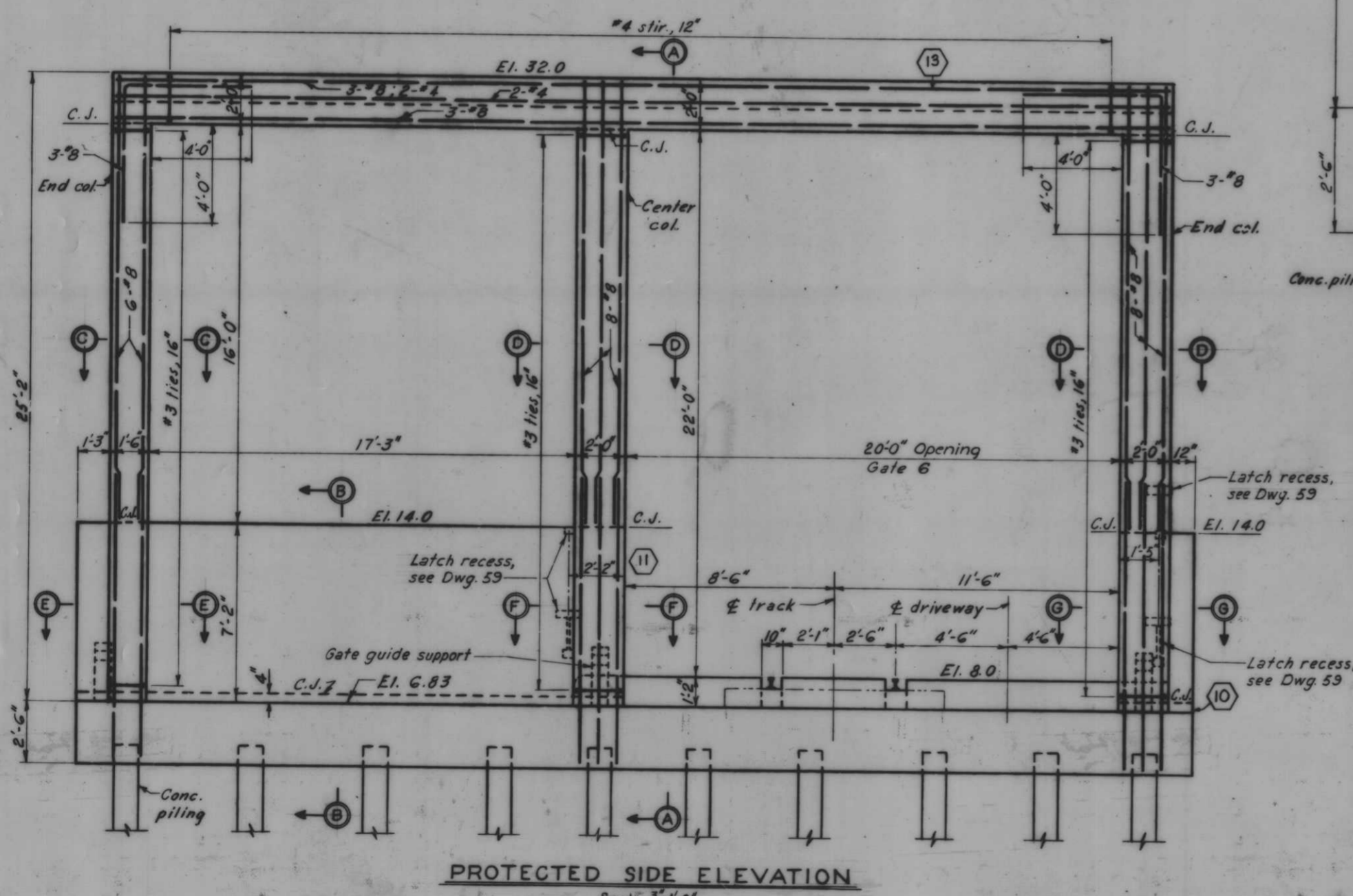
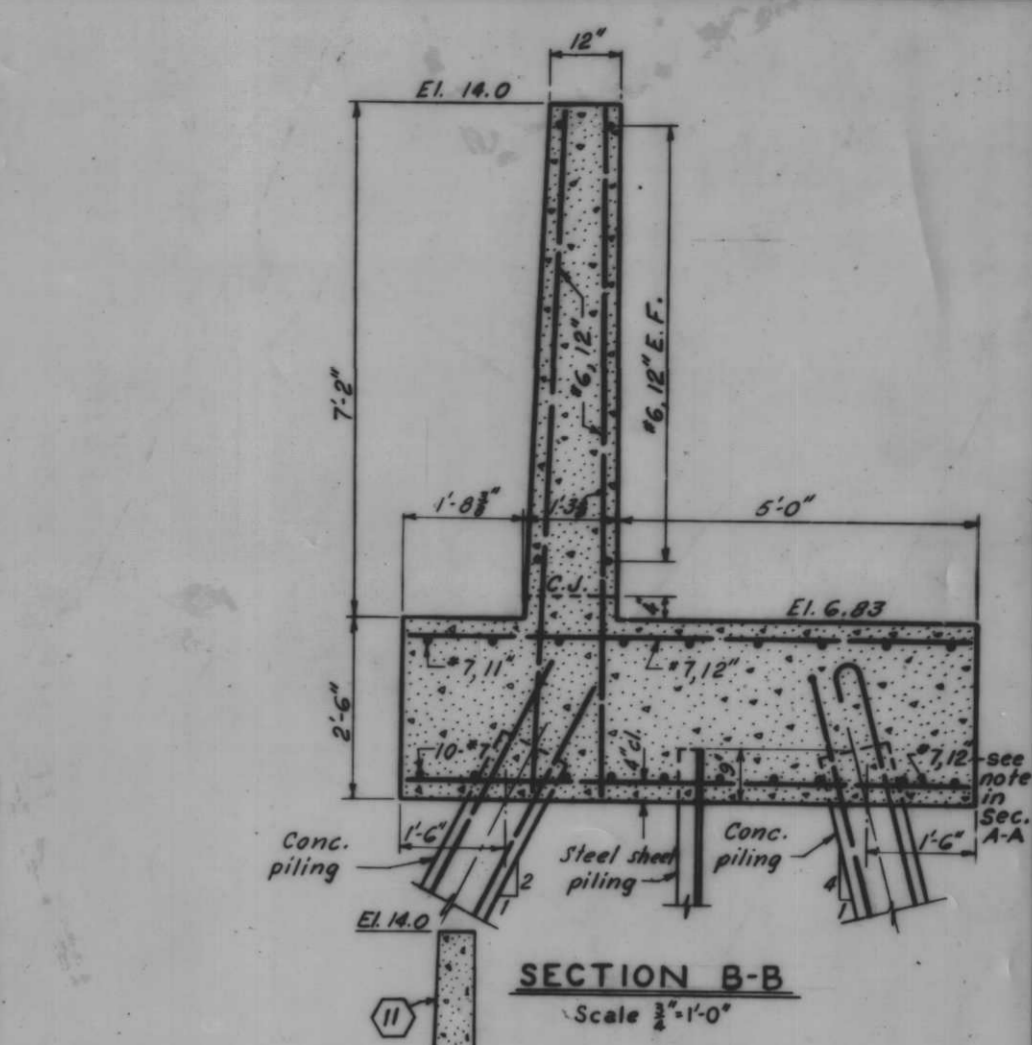
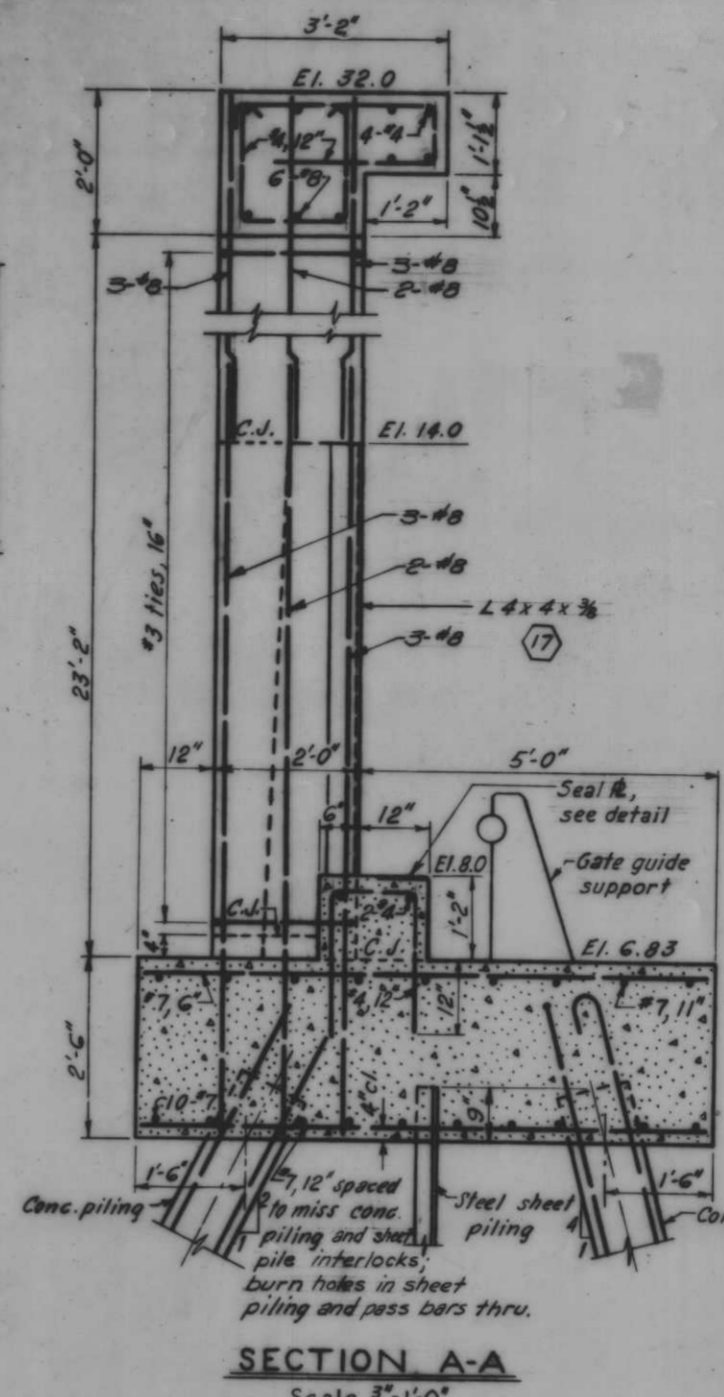
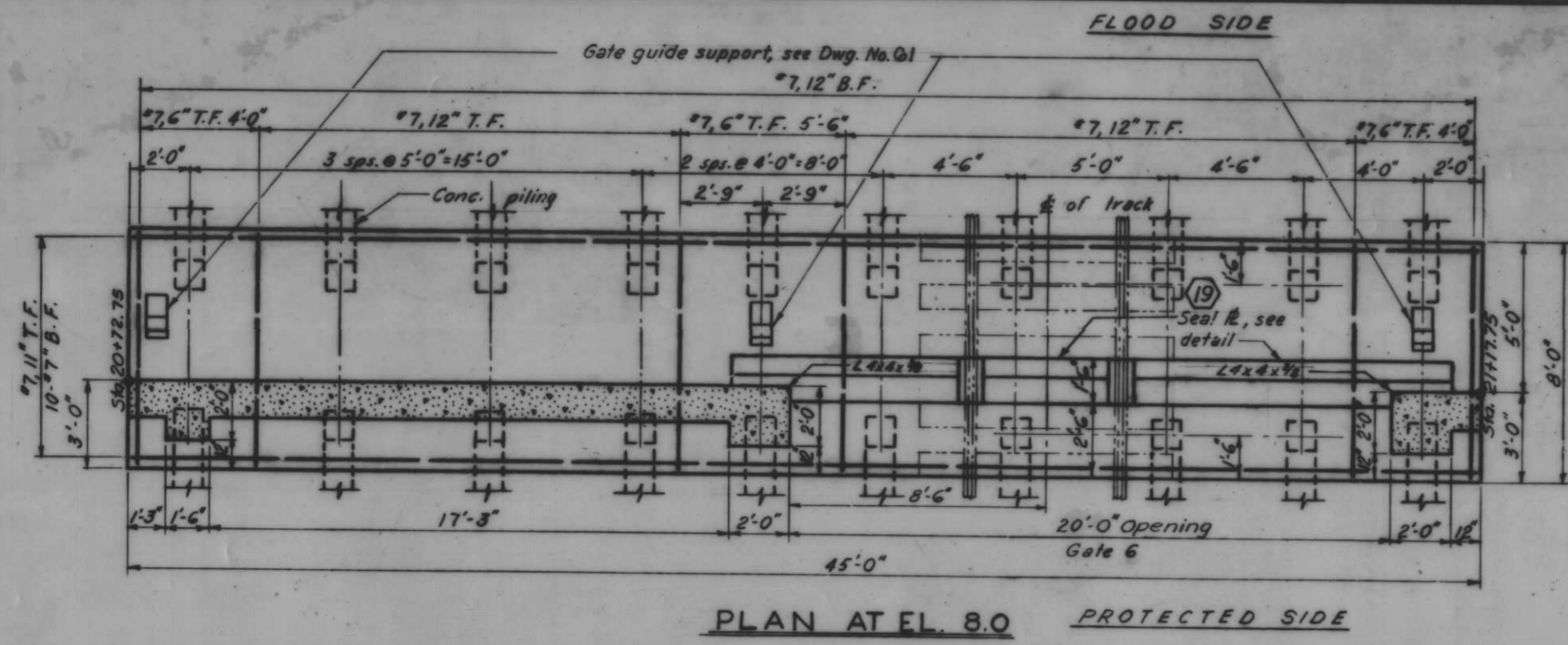
SECTION B-B

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

Note:
For general notes, see Dwg. No. 4.
All holes cut in sheet piling for reinf. shall not exceed 1 1/2" dia.

7-18-69 Revised sill elevations & added angle detail C.I.

REVISION	DATE	CHECKED	CODE IDENT. NO.	SIZE	FILE NO.	DESCRIPTION
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						



AS CONSTRUCTED

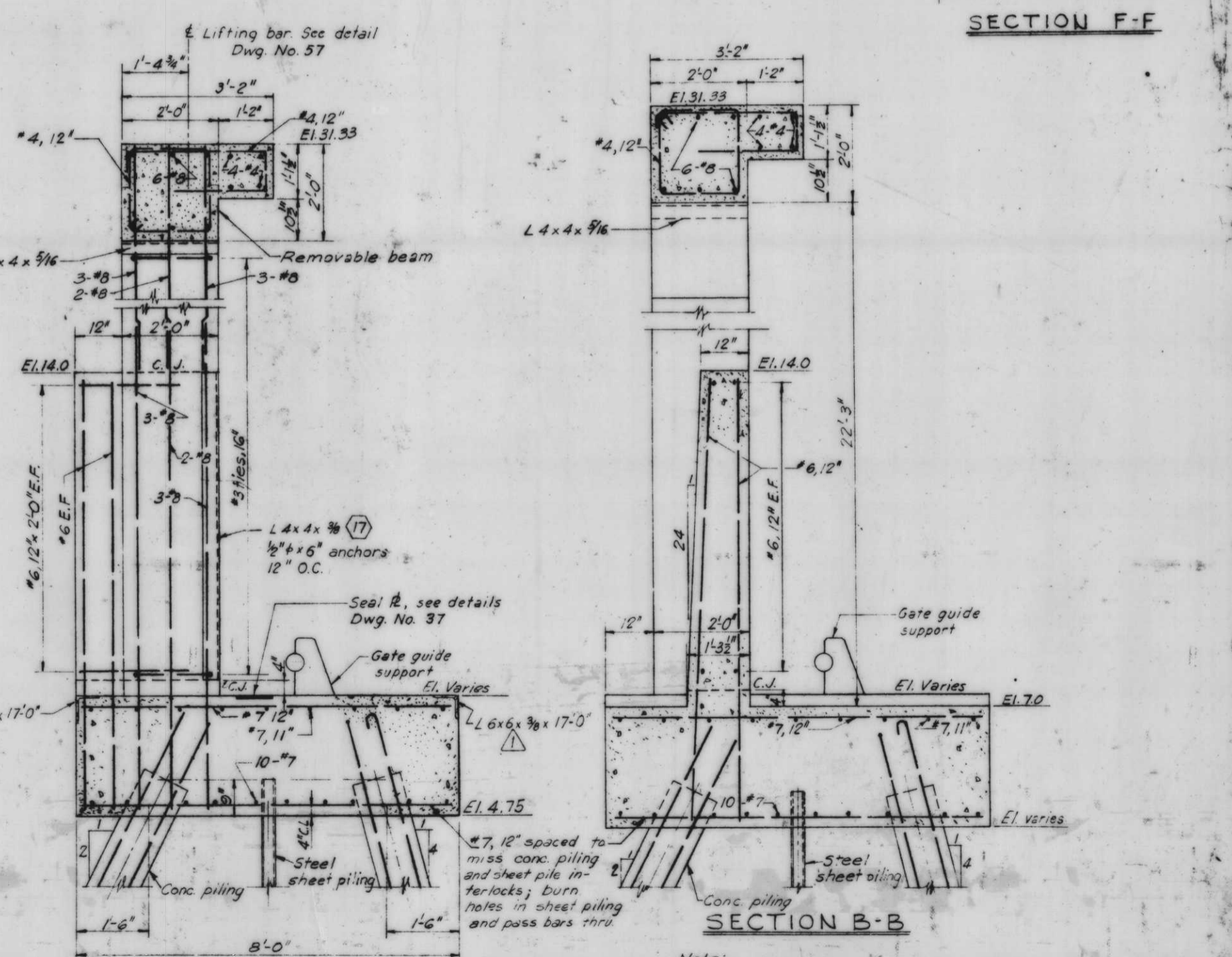
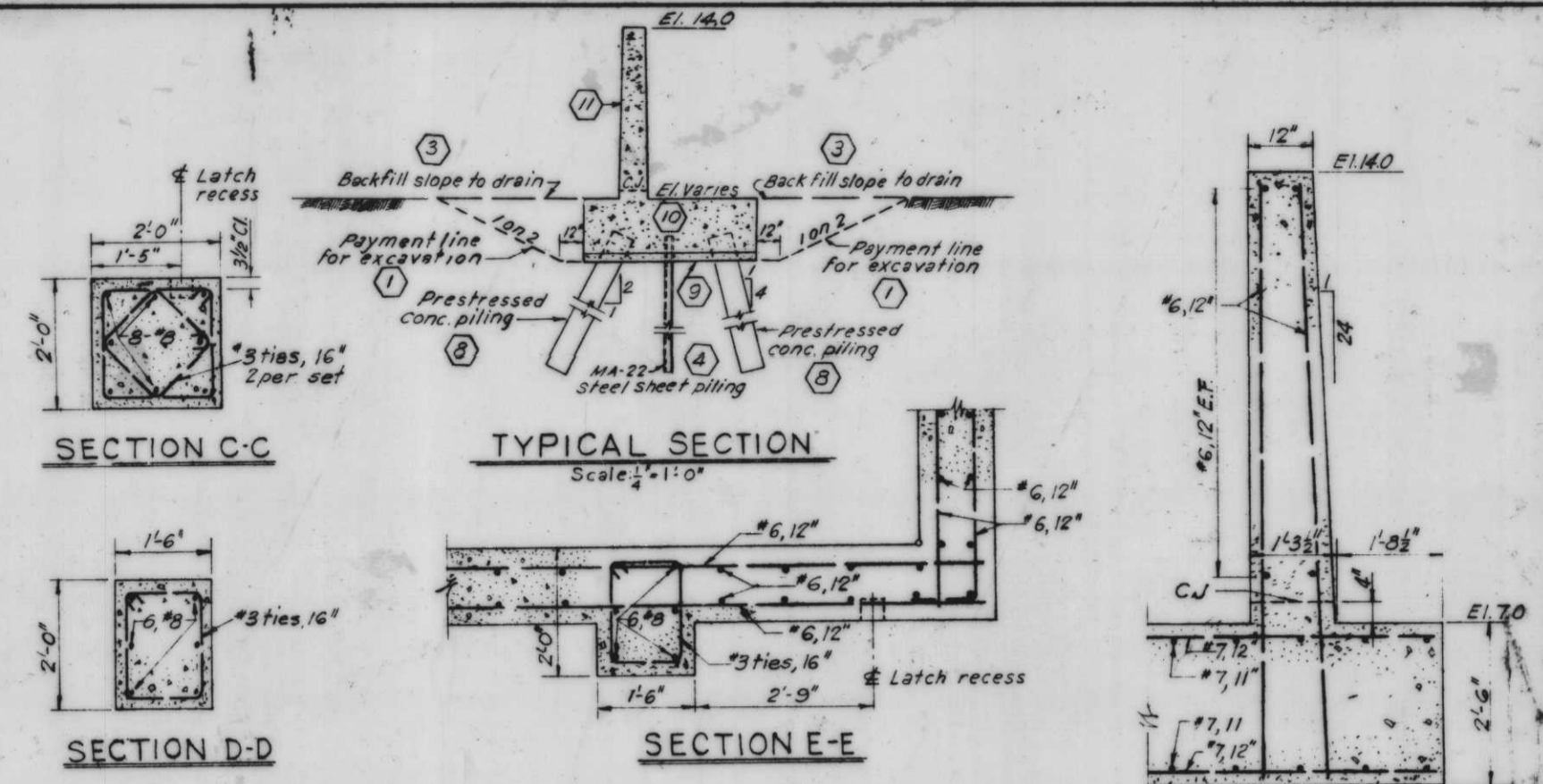
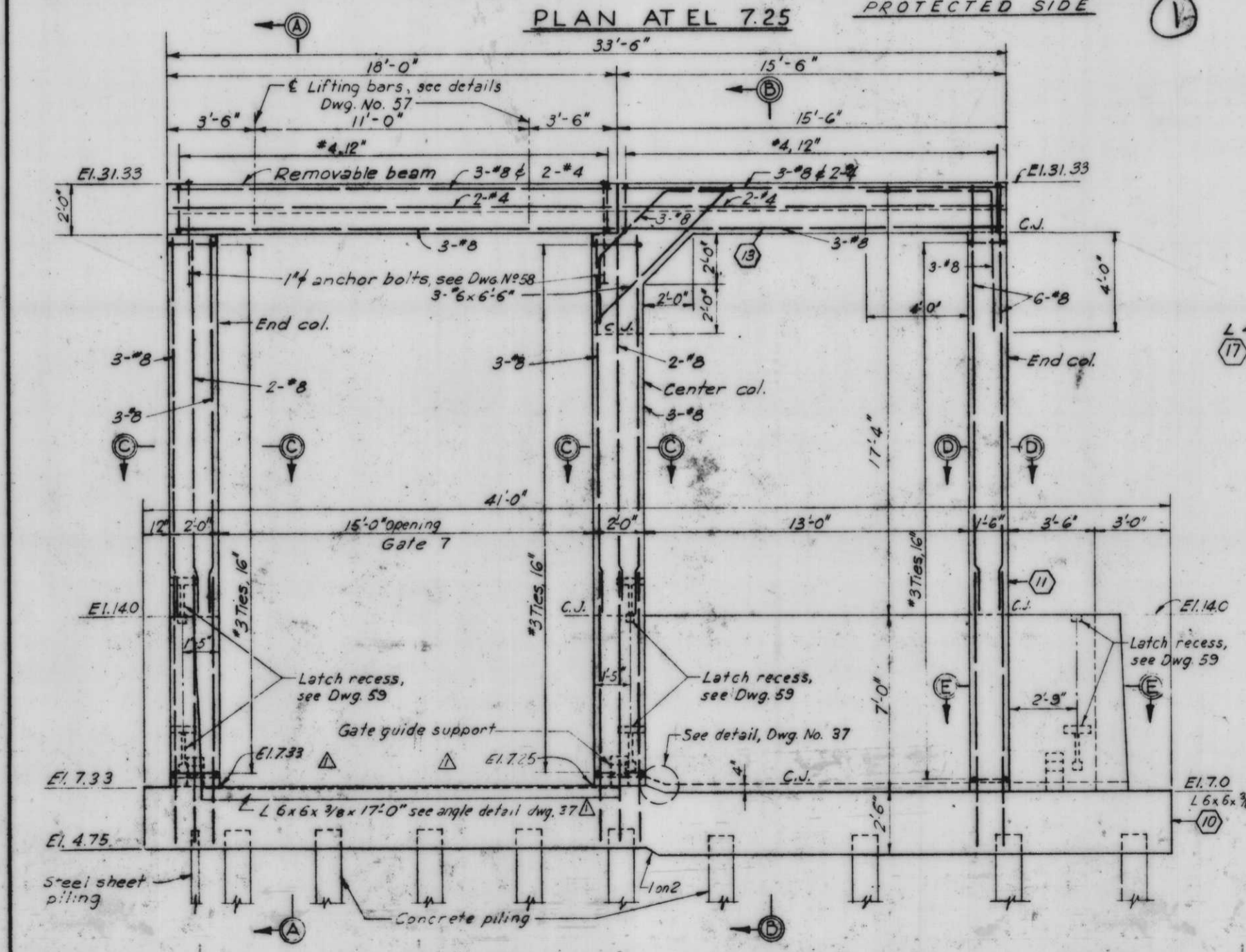
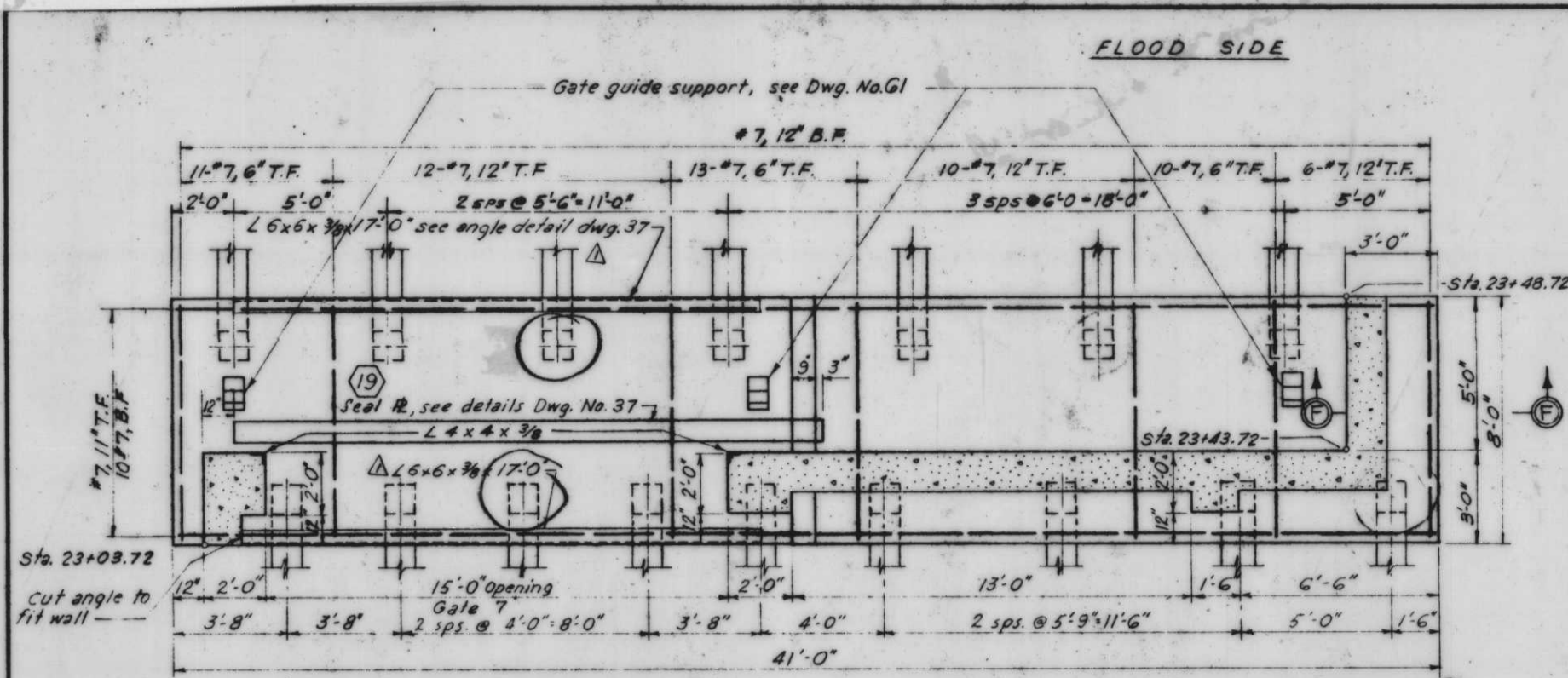
1.24.76 SEAL PLATE MODIFICATION GATES

REVISION	DATE	CHECKED	CODE IDENT. NO.	SIZE	FILE NO.	BY
DESIGNED	D.M.B.	D.J.H.	H.U.			

H-4-24263

SCALE SHOWN SPEC. NO. DATED BY

INHC, WEST LEVEE, FLA. AVE. TO INHC LOCK-FLOODWALL

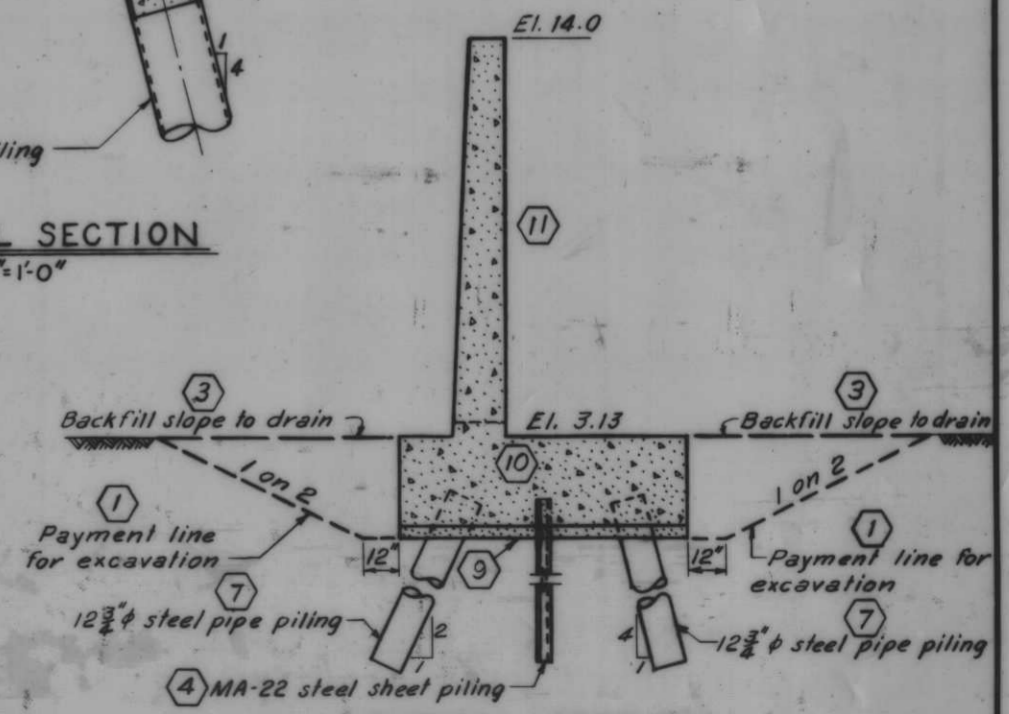
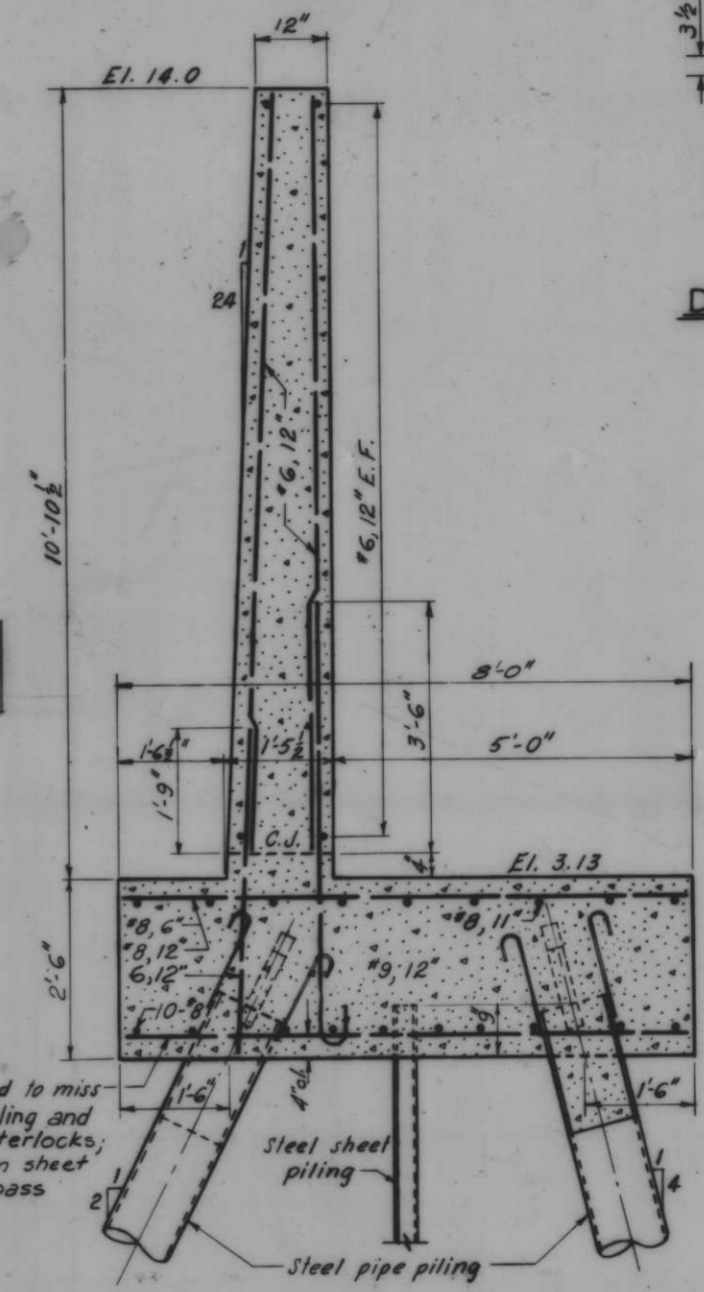
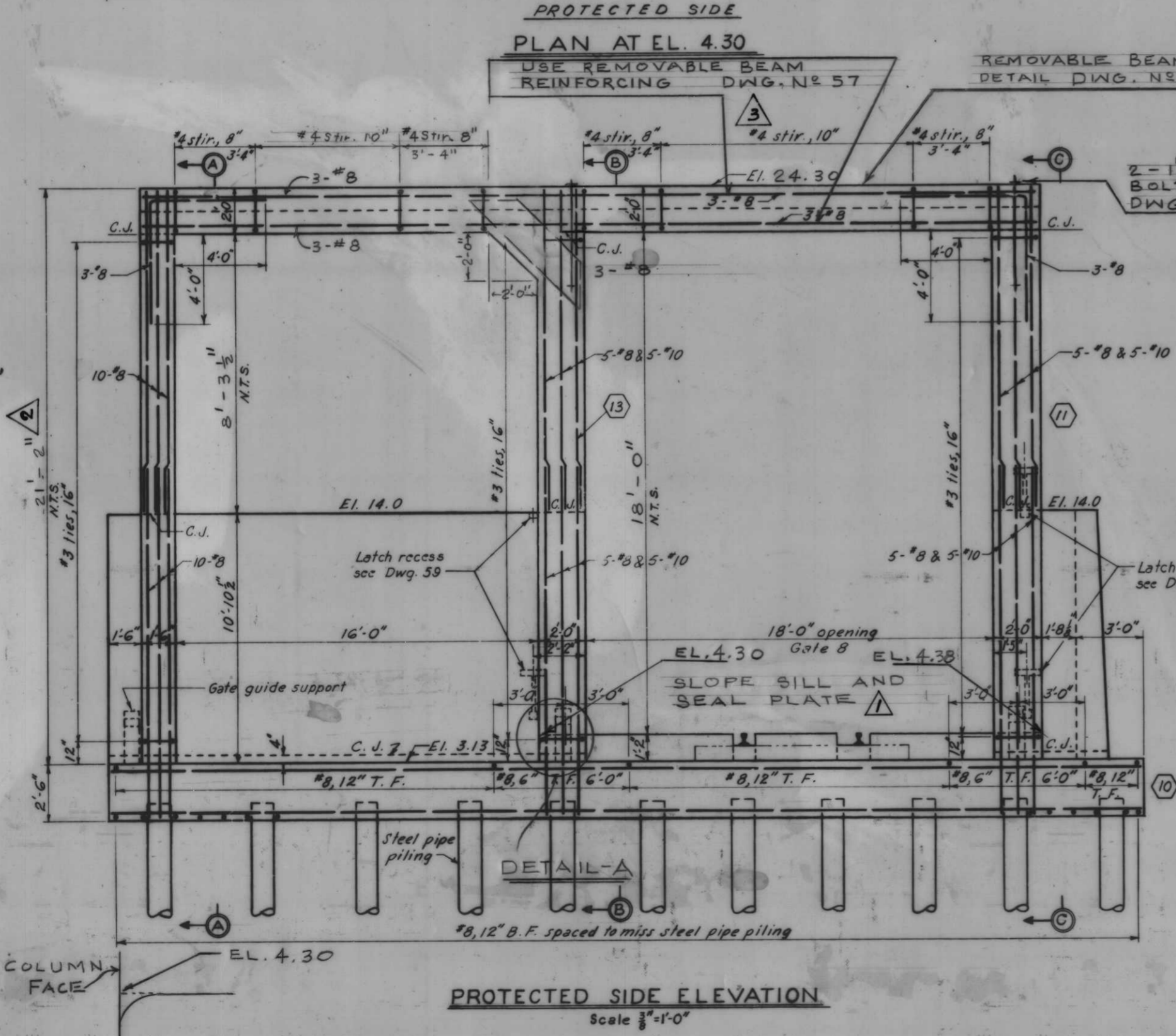
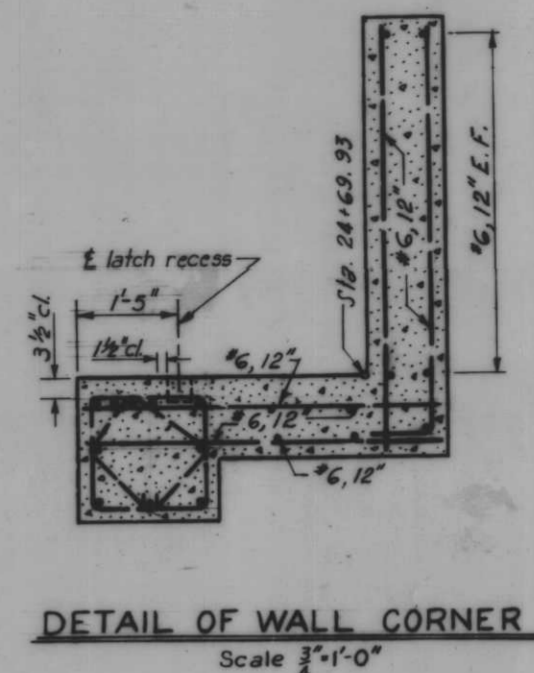
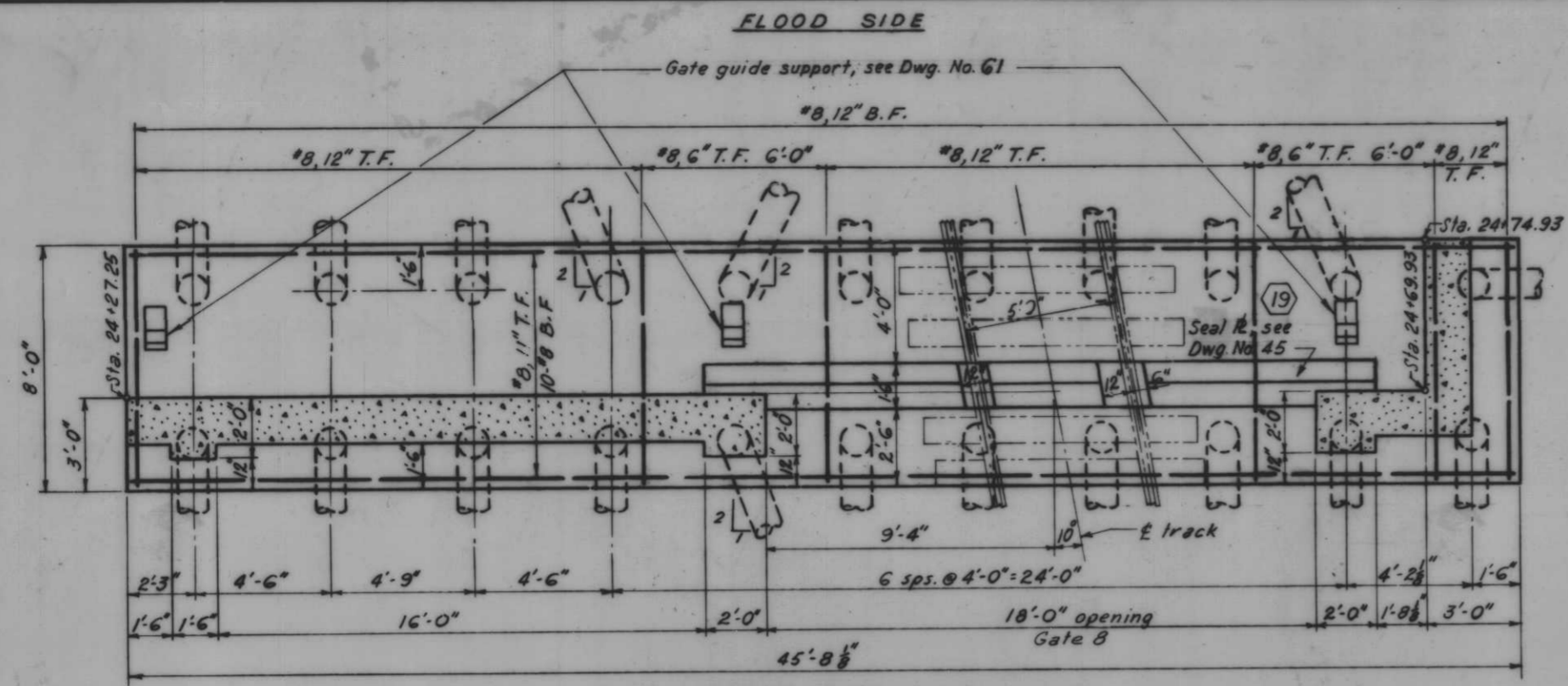


Note: For general notes, see Dwg. No. 4.
 All holes cut in sheet piling for reinf. shall not exceed 1/2"

7-18-69 Revised sill elevation & added angle

REVISION	DATE	CHECKED	DESCRIPTION
DESIGNED	D.M.B.	DRAWN	E.J.C.
			H.U.

MONOLITH 68 - GATE 7
 H-4-24263
 INHC, WEST LEVEE, FLA. AVE. TO INHC LOCK - FLOODWALL

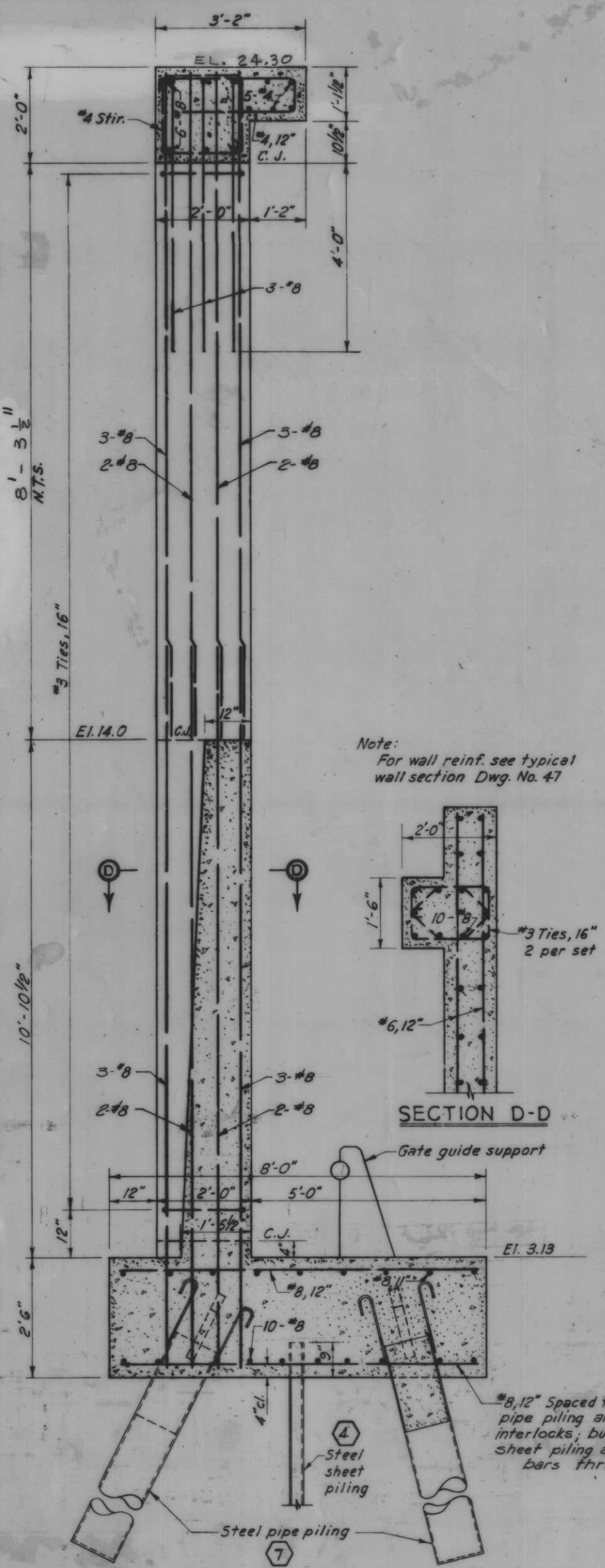


Note:
For general notes, see Dwg. No. 4.
All holes cut in sheet piling for reinf. shall not exceed 1 1/2" ϕ .

AS CONSTRUCTED

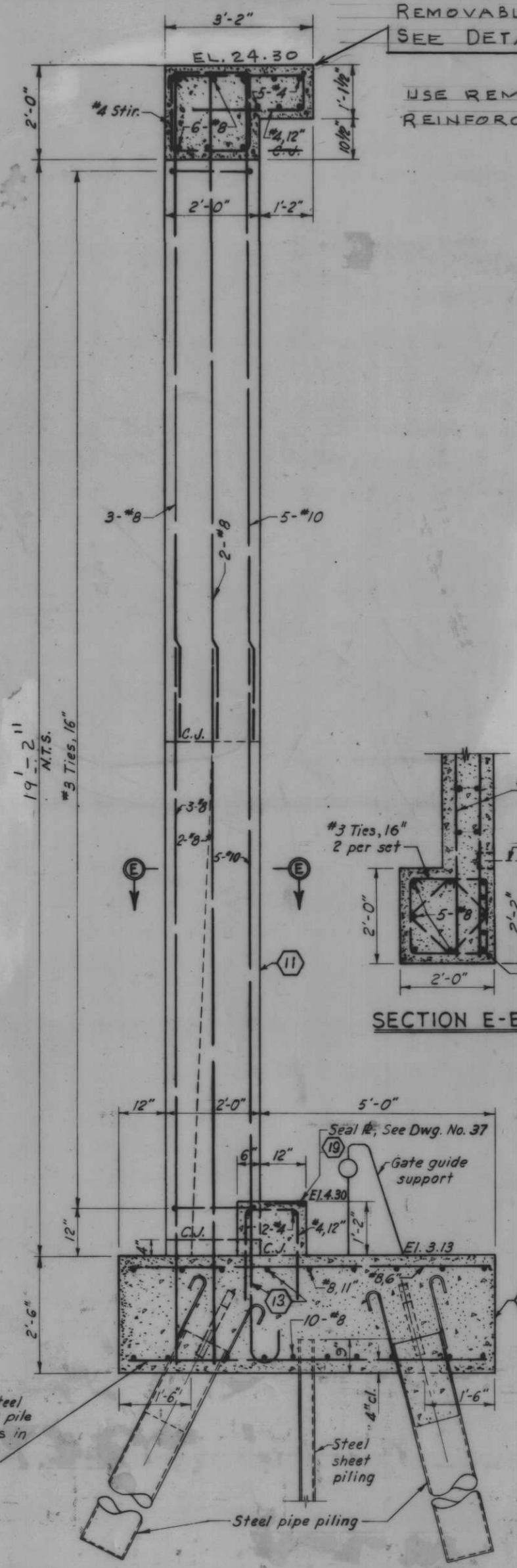
MONOLITH 73 - GATE 8

DESIGNED	DATE	CHECKED	CODE IDENT. NO.	SIZE	FILE NO.	BY
D.A.M.	6-12-69	D.J.H.	H.U.			H-4-24263
<p>REVISION</p> <p>1 6-12-69 REMOVABLE BEAM</p> <p>2 6-4-69 REDUCED GATE HEIGHT</p> <p>3 6-4-69 GATE SEAL ELEVATIONS</p>						
DATE	SCALE SHOWN	SPEC. NO. DAWES	DWG. NO. 47 OF 78			



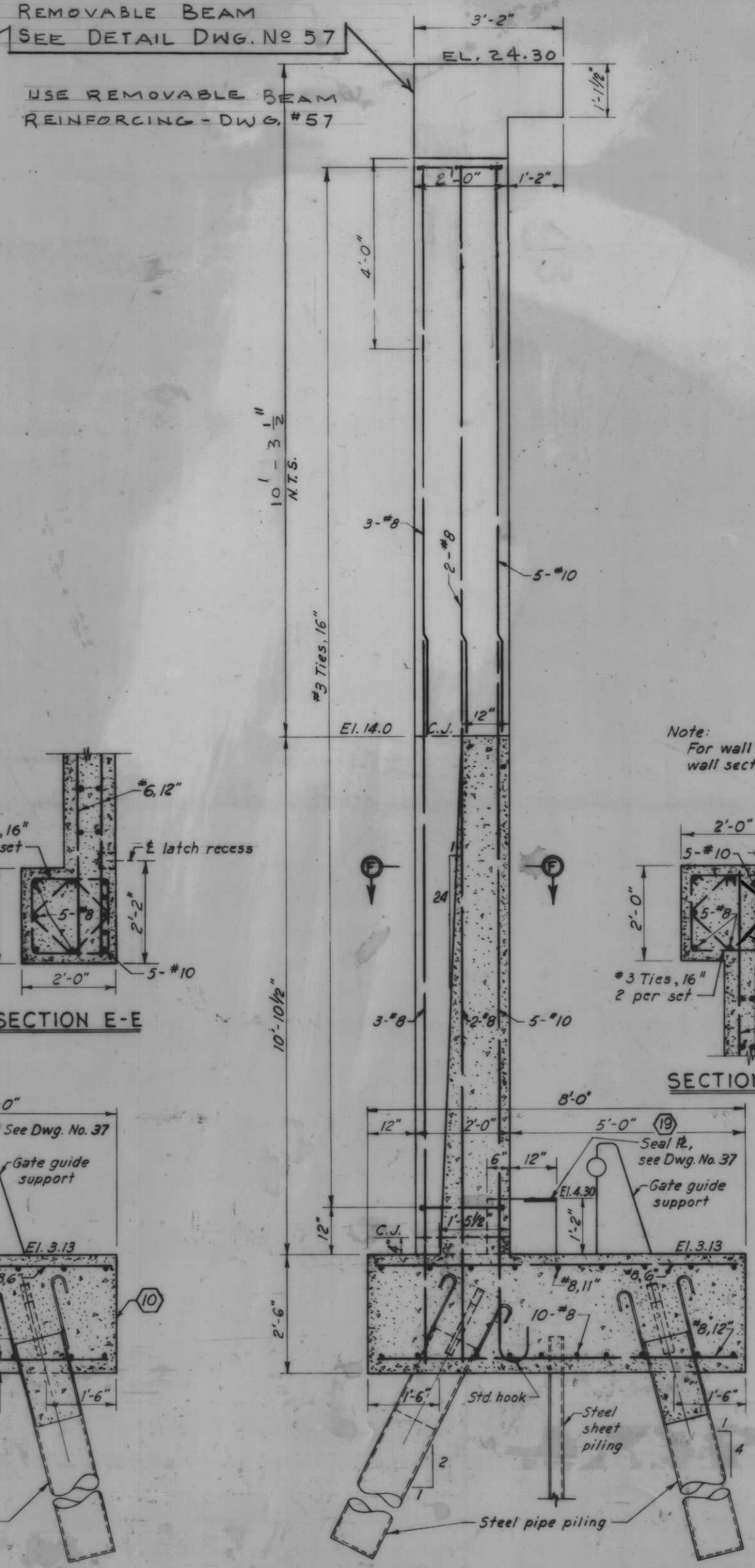
SECTION A-A

AS CONSTRUCTED



SECTION B-B

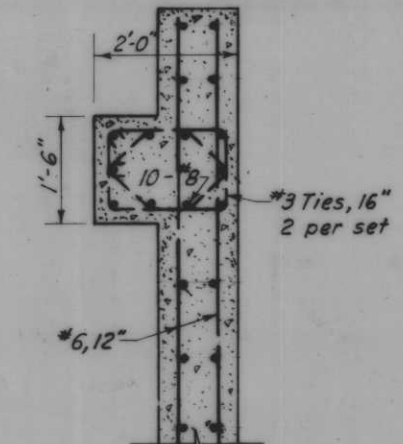
Scale: 3/4" = 1'-0"



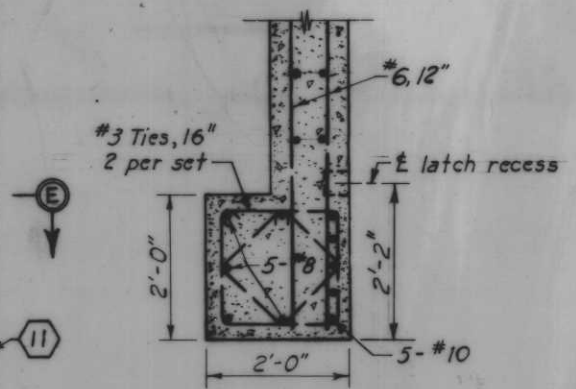
SECTION C-C

REMOVABLE BEAM
SEE DETAIL DWG. NO. 57
USE REMOVABLE BEAM
REINFORCING - DWG. #57

Note:
For wall reinf. see typical
wall section Dwg. No. 47

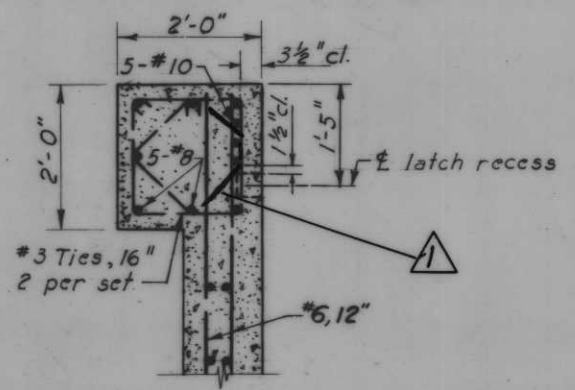


SECTION D-D



SECTION E-E

Note:
For wall reinf. see typical
wall section Dwg. No. 47

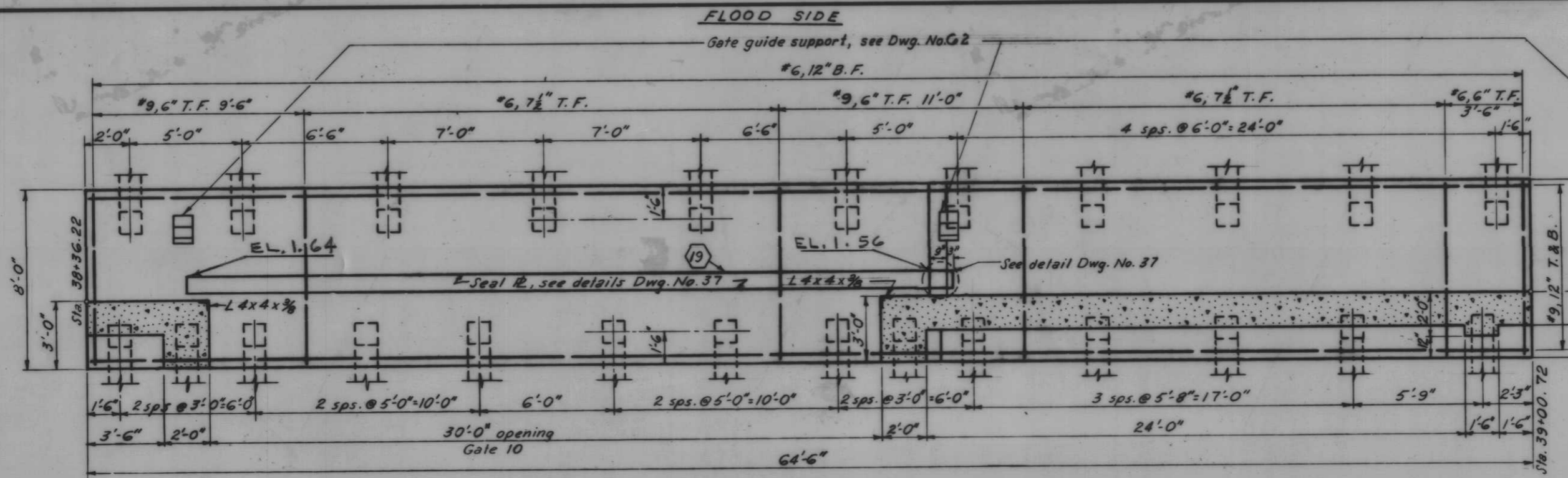


SECTION F-F

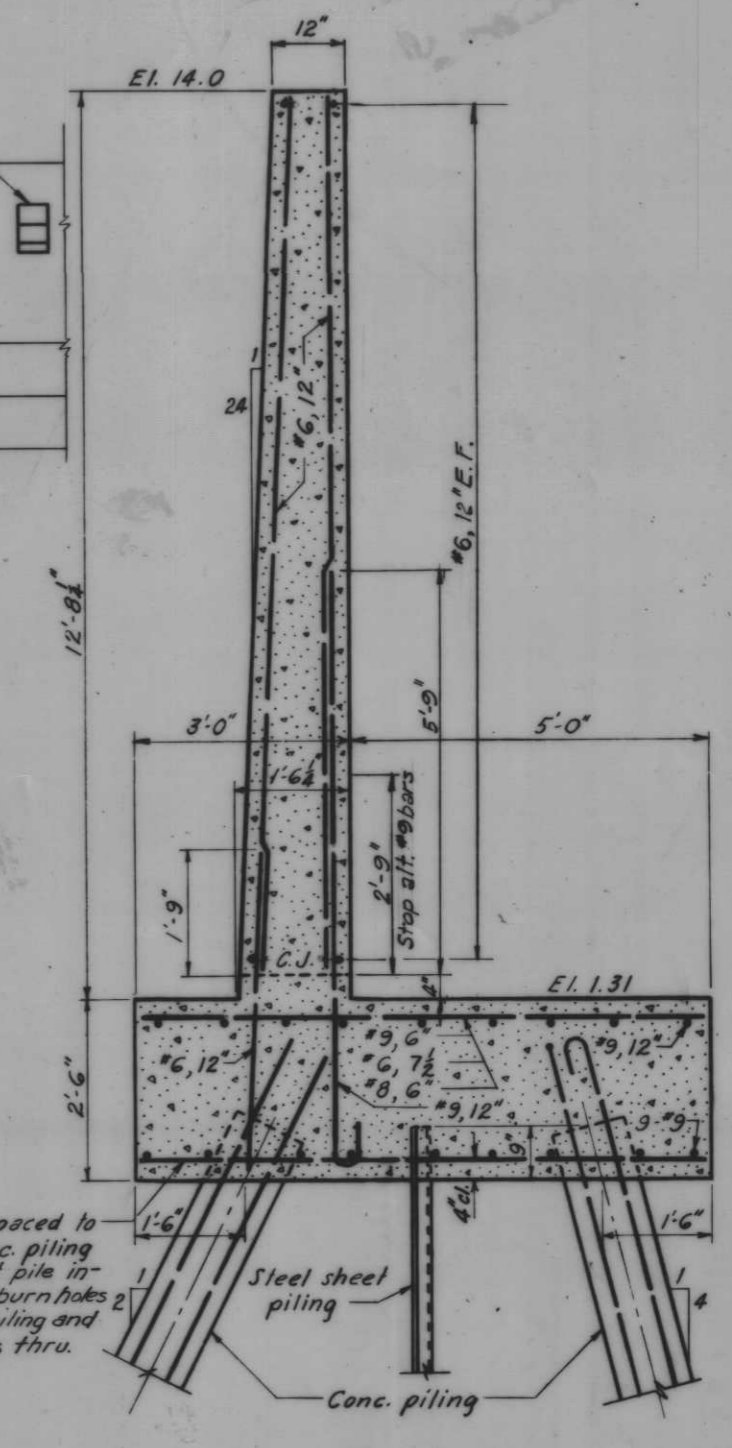
Note:
For location of sections A-A, B-B and C-C, see Dwg. No. 47.
All holes cut in sheet piling for reinf. shall not exceed 1 1/2"

3	6-12-69	REMOVABLE BEAM			
2	6-4-69	REDUCED GATE HEIGHT			
1	12-2-68	SHOWN DIAGONAL TIE			
DESIGNED	DATE	CHECKED	CODE IDENT. NO.	SIZE	FILE NO.
D.A.M.	E.J.C.	H.U.			H-4-24263
DATE:	SCALE SHOWN	SPEC. NO. D.A.C.W.S.	DWG. NO. 48 OF 78		

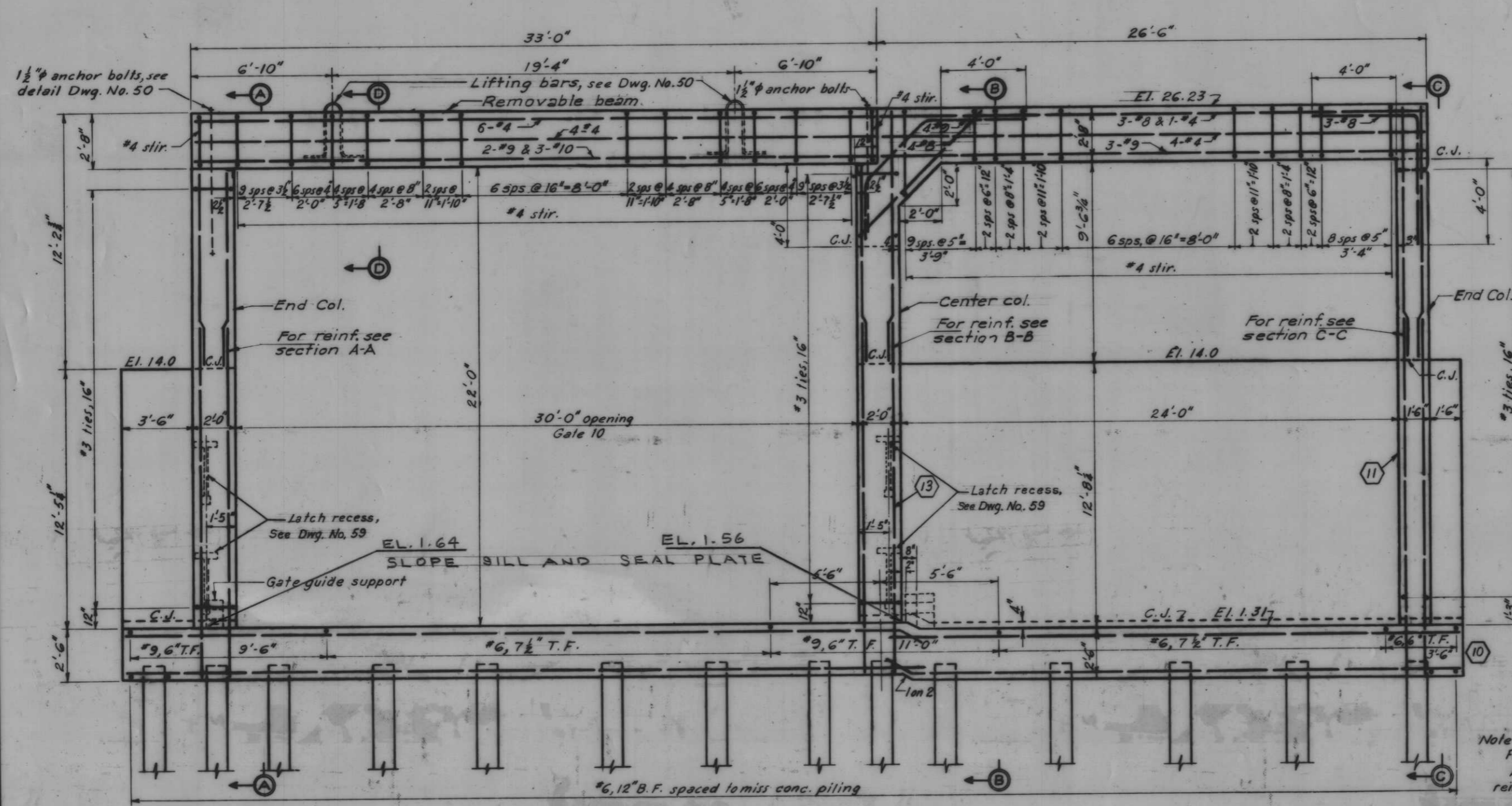
MONOLITH 73-GATE 8



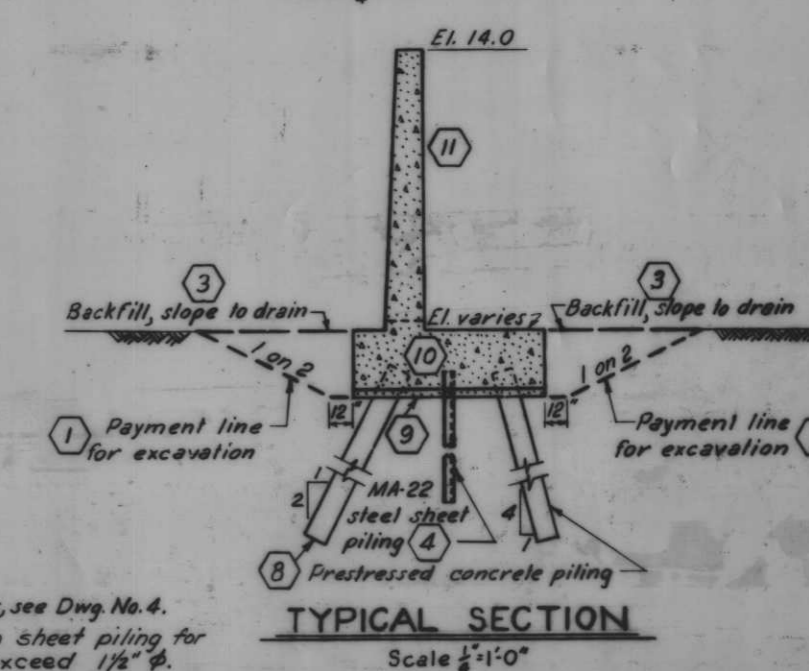
PROTECTED SIDE
PLAN AT EL. 1.56



TYPICAL WALL SECTION
Scale: 3/4"=1'-0"



PROTECTED SIDE ELEVATION
Scale: 3/4"=1'-0"



TYPICAL SECTION
Scale: 1/2"=1'-0"

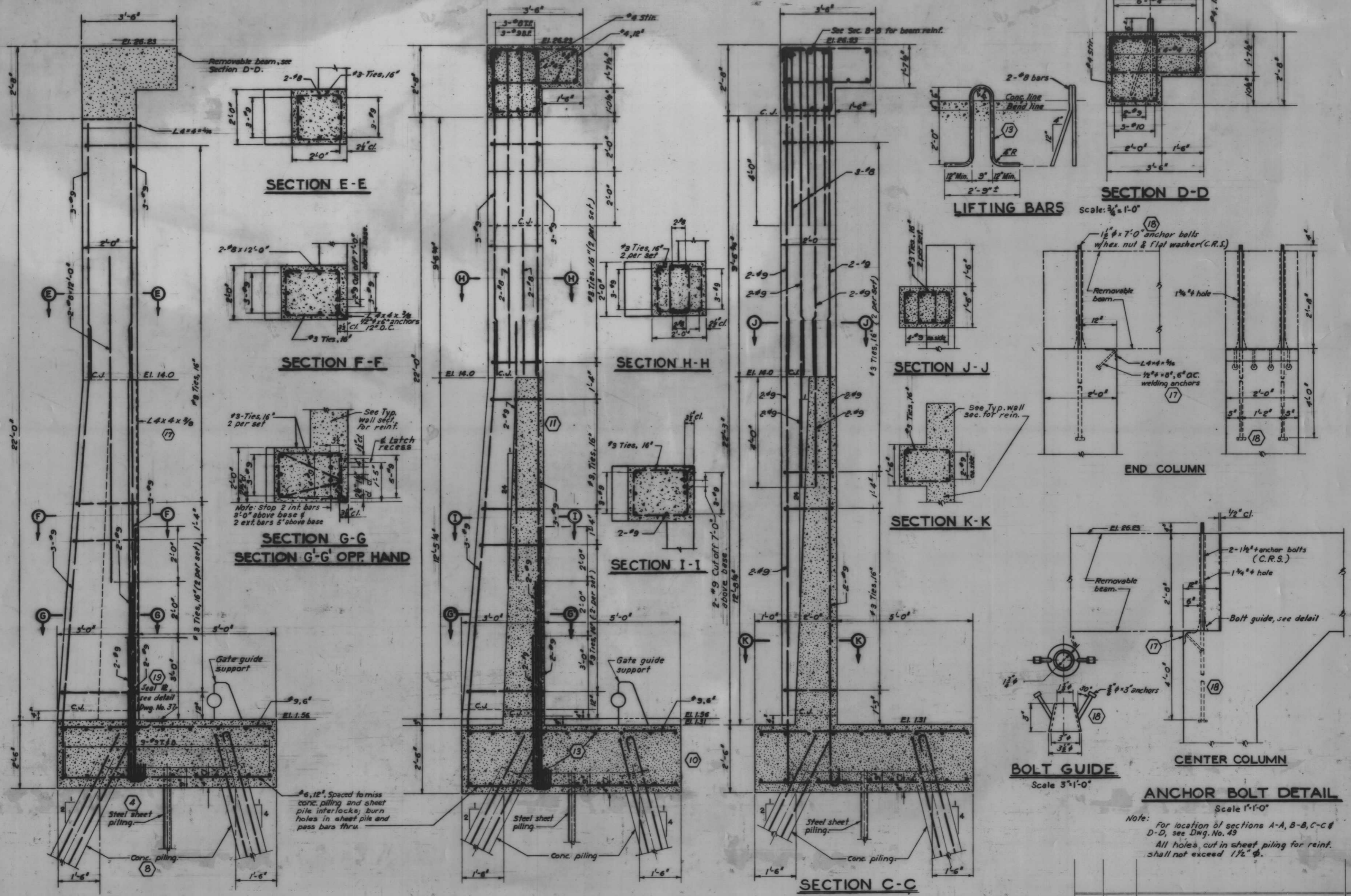
AS CONSTRUCTED

MONOLITH 99 - GATE 10

REVISION	DATE	DESCRIPTION	BY
6-4-69		GATE SEAL ELEVATIONS	
DESIGNED: C.W.R.	DRAWN: D.J.H.	CHECKED: H.U.	FILE NO. H-4-24263
DATE:			DWG. NO. 49 OF 79

INHC, WEST LEVEL, FLA. AVE. TO INHC LOCK-FLOODWALL

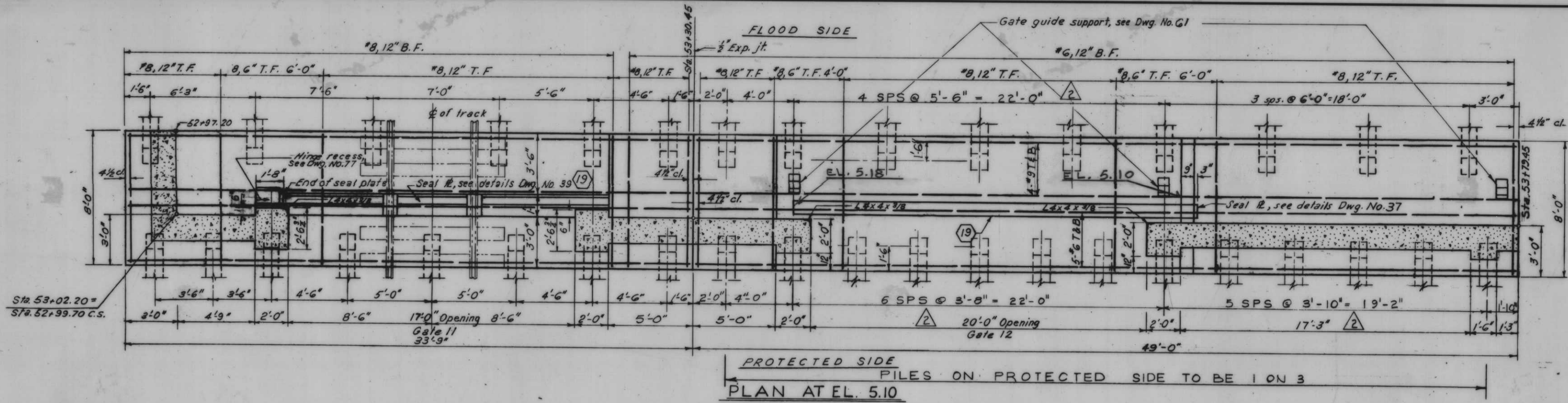
AS CONSTRUCTED



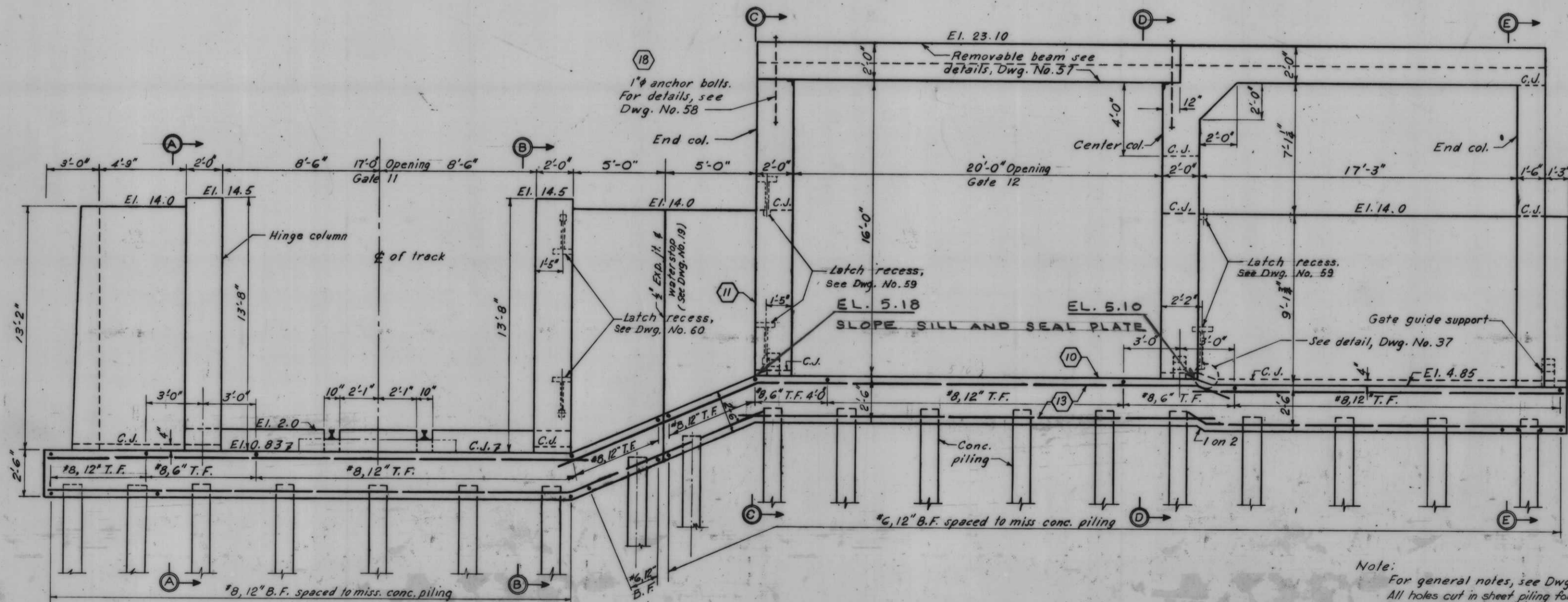
Note: For location of sections A-A, B-B, C-C & D-D, see Dwg. No. 49
All holes, cut in sheet piling for reinf. shall not exceed 1 1/2" φ.

4 8 10 11 13 17 18 19
MONOLITH 99 - GATE 10

REVISION	DATE	DESCRIPTION
DESIGNED: C.W.R.	DRAWN: J.J.P.	CHECKED: H.U.
H-4-24263		
DATE:	SCALE: SHOWN	SPEC. NO. DATED:
		DWG. NO. 50 OF 78



PROTECTED SIDE
PILES ON PROTECTED SIDE TO BE 1 ON 3
PLAN AT EL. 5.10



PROTECTED SIDE ELEVATION

Scale 3/8\"/>

AS CONSTRUCTED

Note:
For general notes, see Dwg. No. 4.
All holes cut in sheet piling for reinf. shall not exceed 1 1/2\"/>

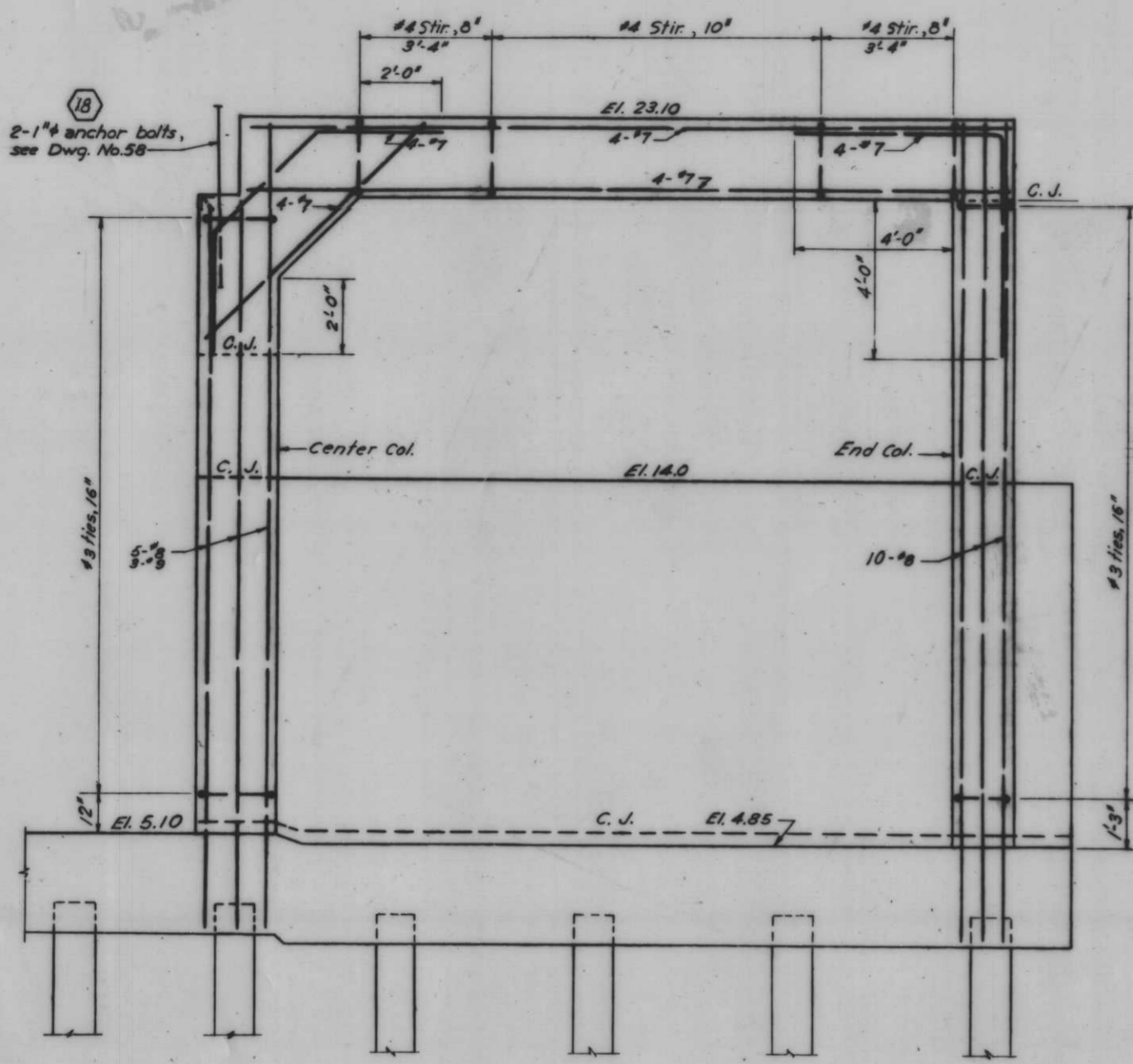
REVISION	DATE	DESCRIPTION	BY
1	6-4-69	GATE SEAL ELEVATIONS	
2	1-11-69	REVISED PILE LAYOUT GATE 12 ADDED 3 PILES	C.F.F.
3	12-68	Revised pile spacing Gate 11.	J.J.P.

DESIGNED	DRAWN	CHECKED	CODE IDENT. NO.	SIZE	FILE NO.
T.F.P.	D.J.H.	H.U.			H-4-24263

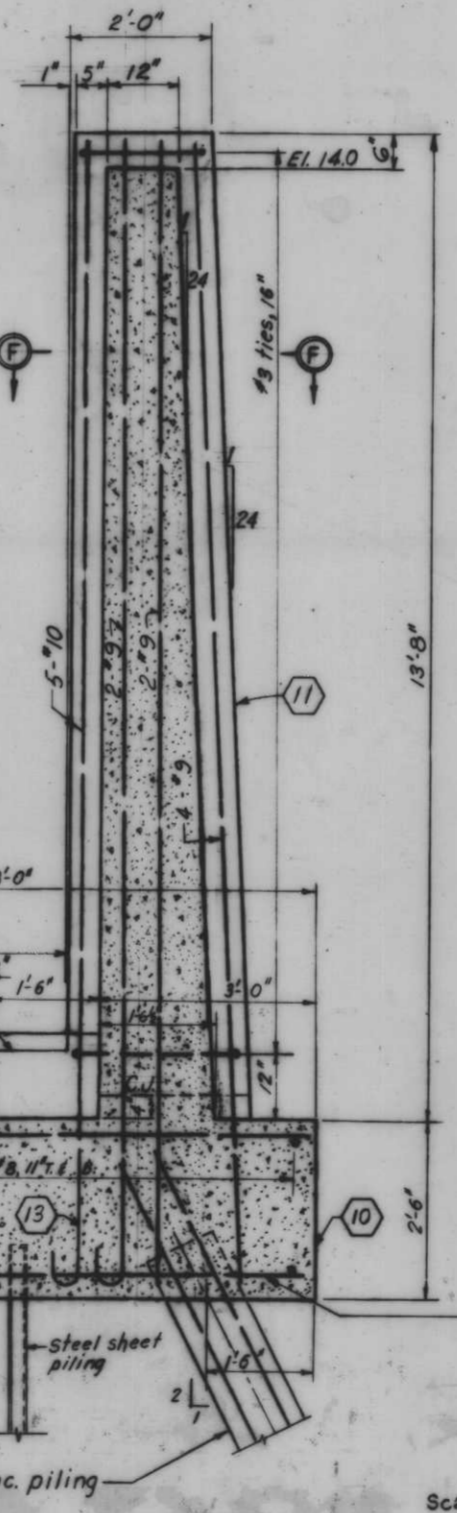
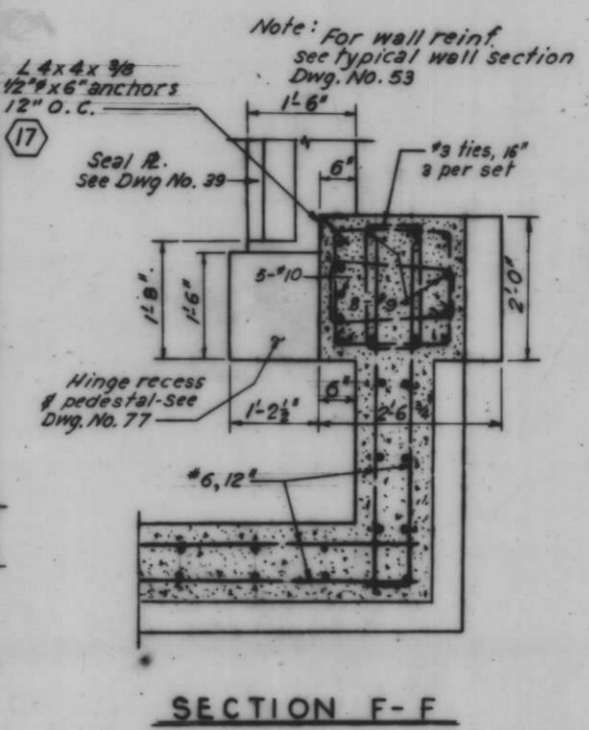
DATE	SCALE SHOWN	SPEC. NO. SACWS-	DWG. NO.
			51 OF 78

MONOLITHS I24 & I25 - GATE II AND 12

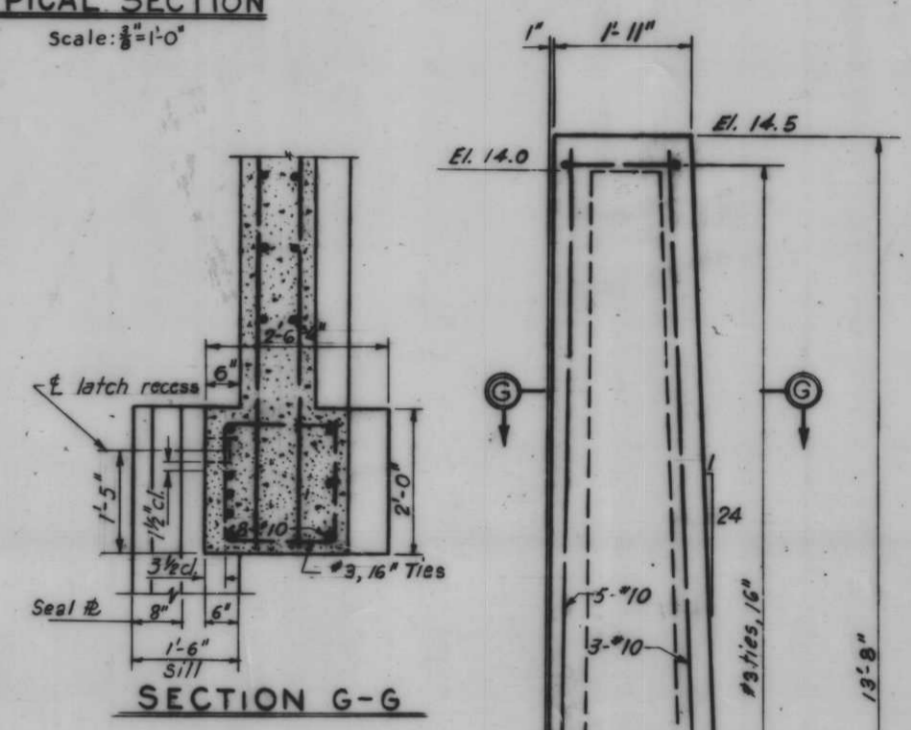
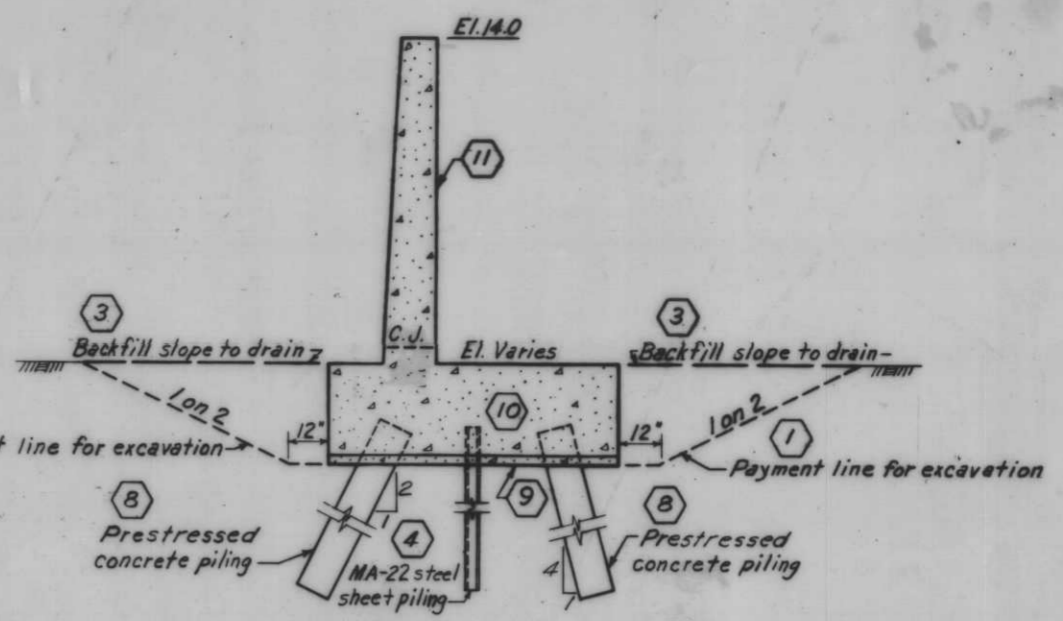
IHNC, WEST LEVEE, FLA. AVE. TO IHNC LOCK - FLOODWALL



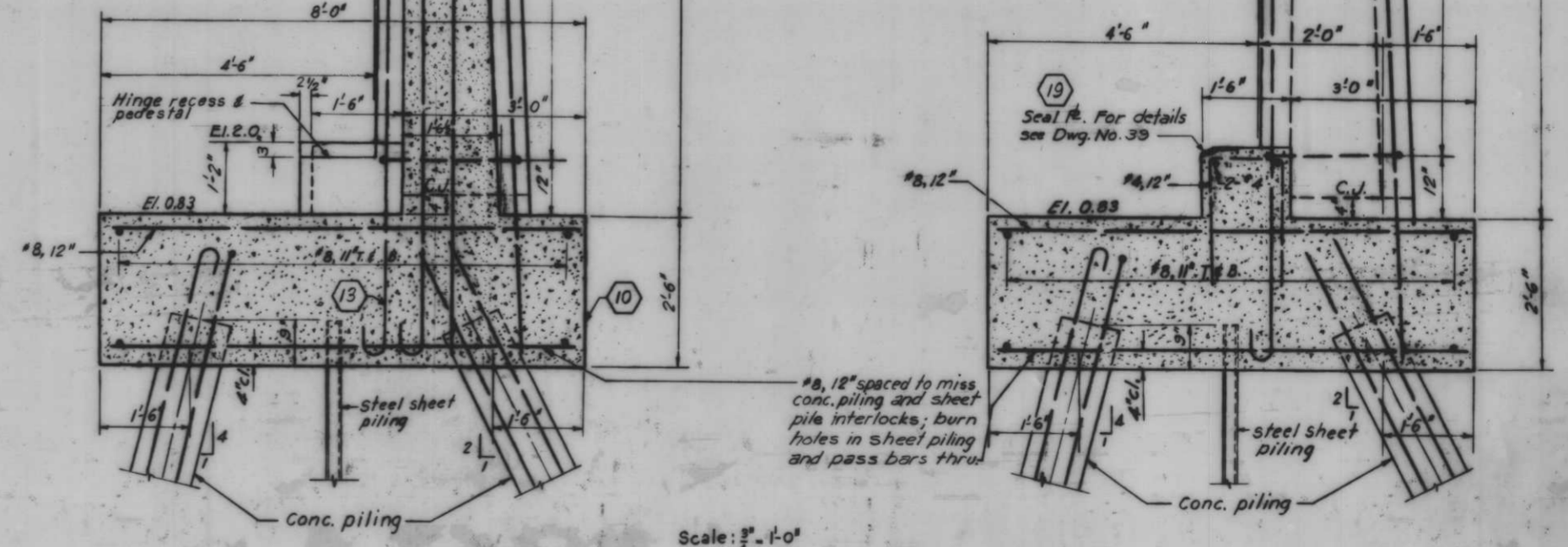
STORAGE MONOLITH REINF.
Scale: 1/4" = 1'-0"



SECTION A-A



SECTION G-G



SECTION B-B

Note:
For location of sections A-A and B-B, see Dwg. No. 51.
All holes cut in sheet piling for reinf. shall not exceed 1 1/2" dia.

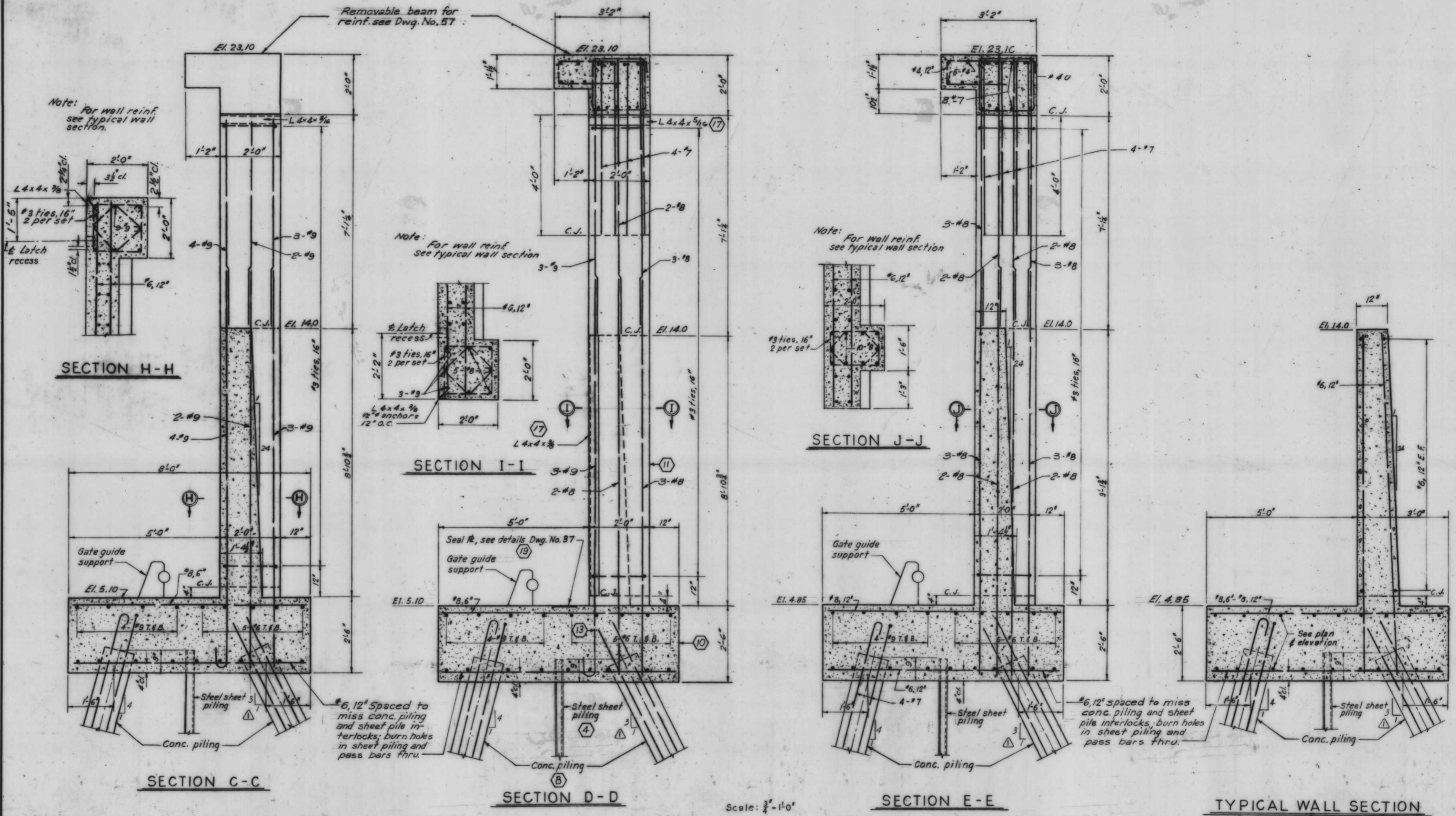
AS CONSTRUCTED

MONOLITHS 124 & 125-GATE II AND 12

1 3 4 8 9 10 11 13 17 18 19

REVISION	DATE	DESCRIPTION	BY
DESIGNED			
DRAWN			
CHECKED			
CODE IDENT. NO.		FILE NO.	
T.F.R.	E.J.C.	M.U.	
DATE		SCALE SHOWN	SPEC. NO. DRAWING
			DWG. NO. 82 OF 78

H-4-24263

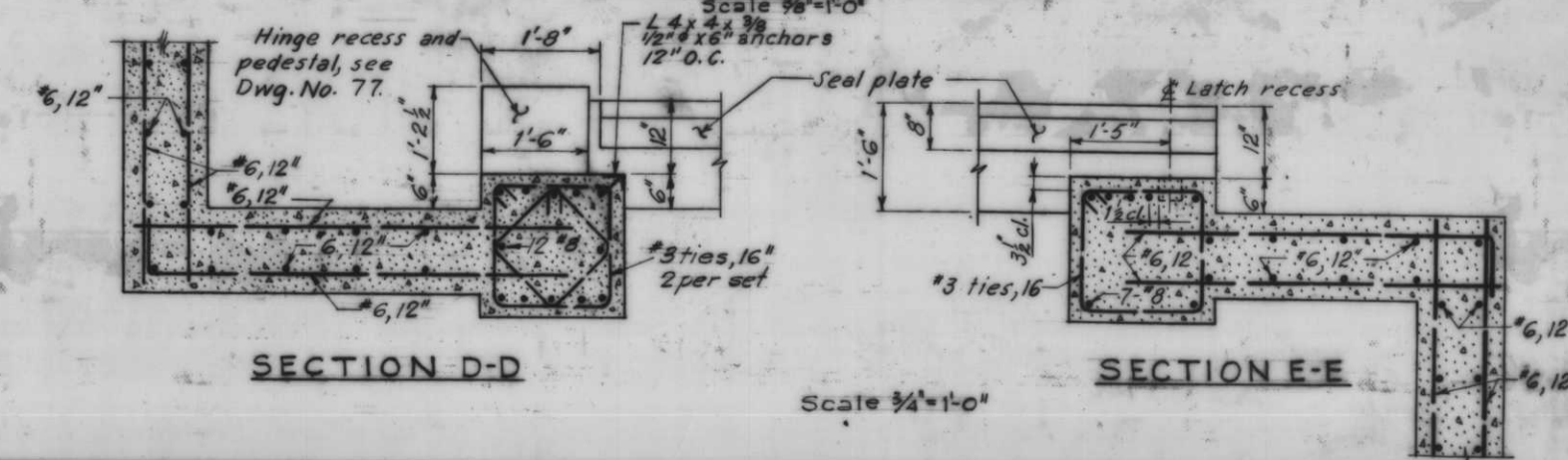
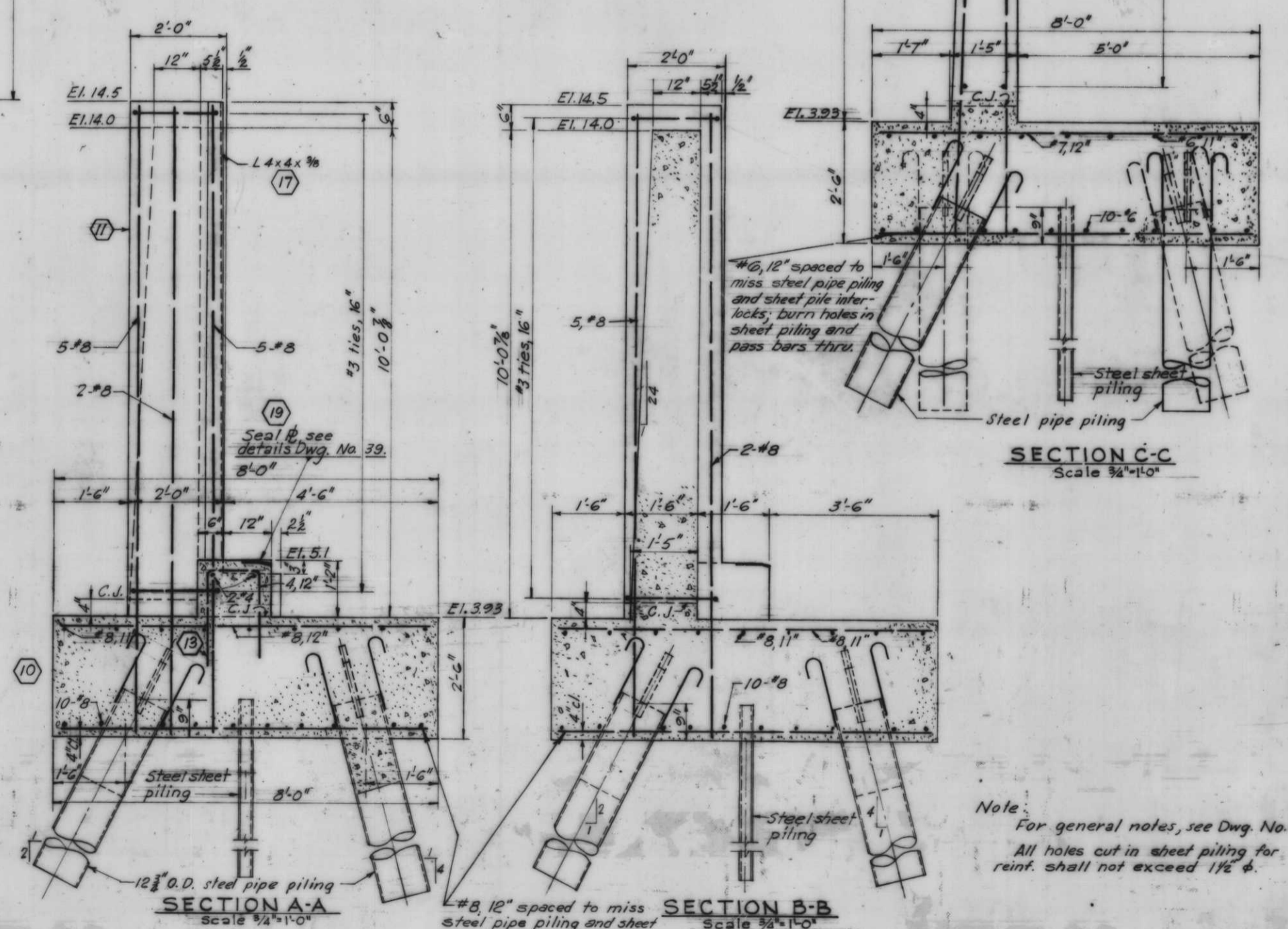
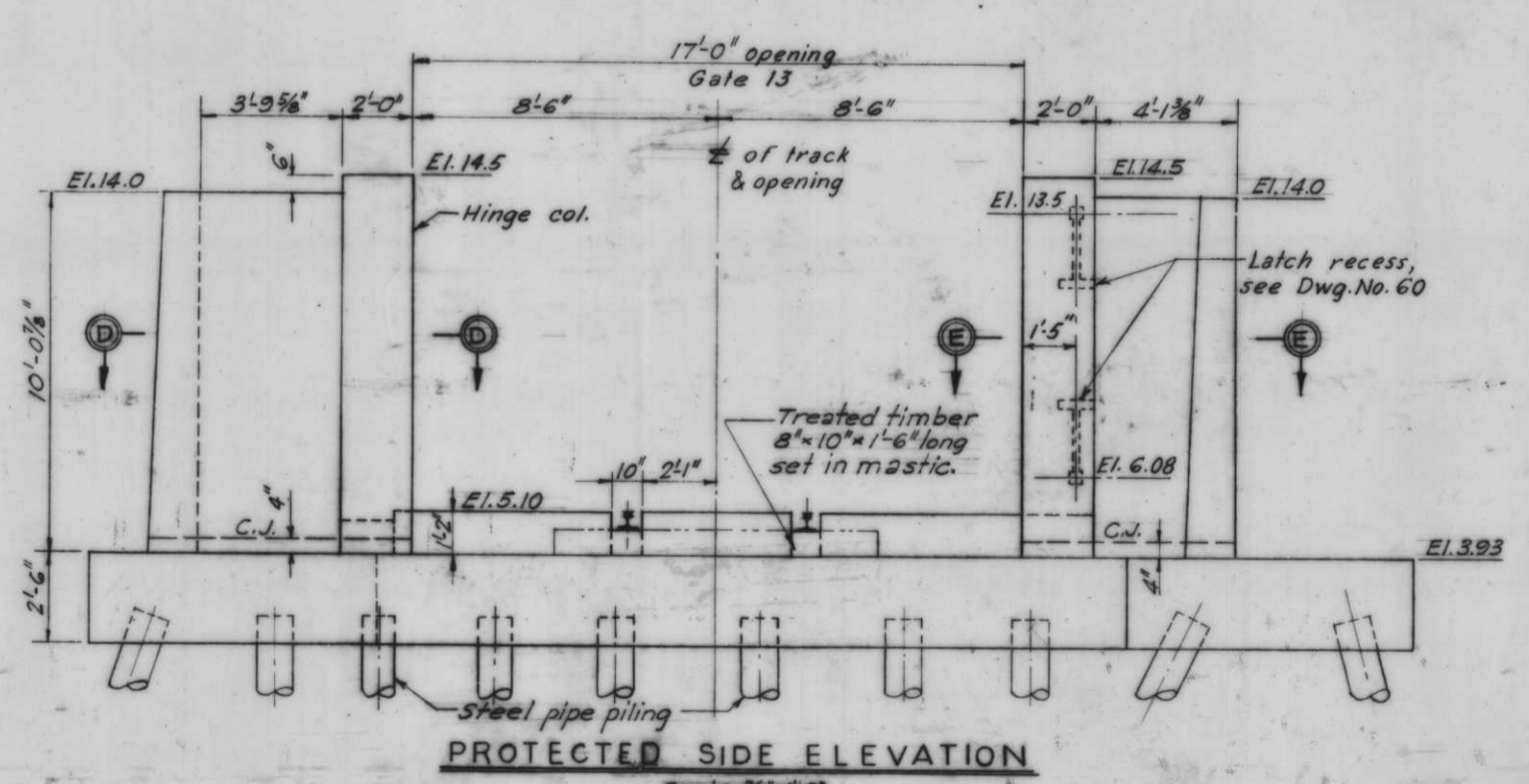
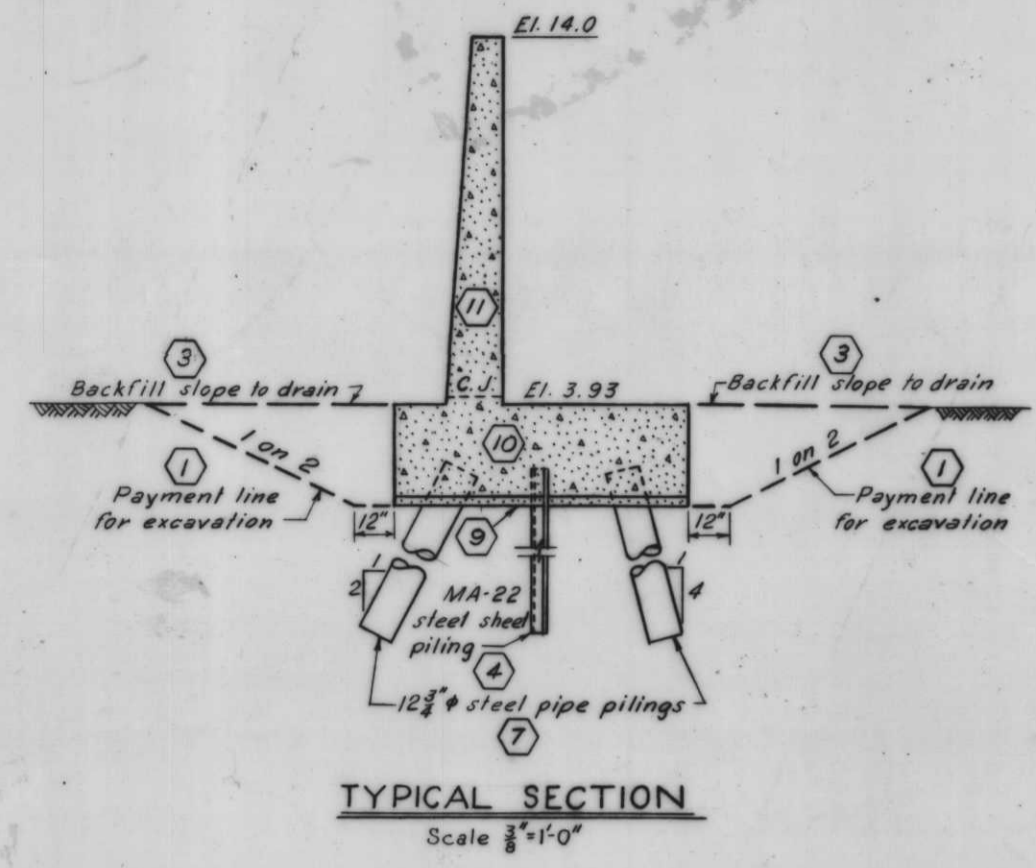
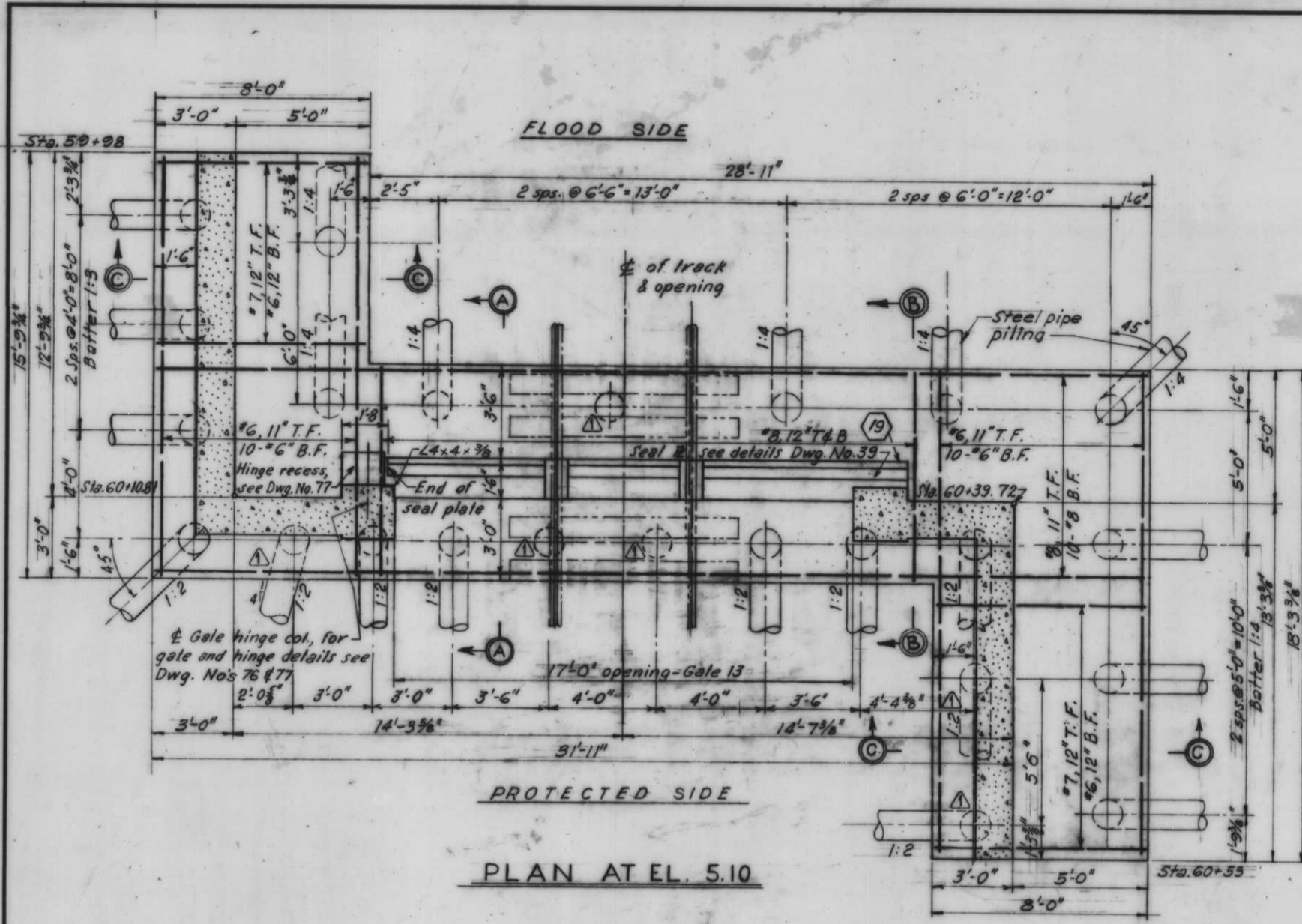


AS CONSTRUCTED

MONOLITHS 124 & 125 - GATE II AND 12

Note:
For location of sections C-C, D-D, and E-E see Dwg. No. 51
All holes cut in sheet piling for reinf. shall not exceed 1/2" ϕ .

12-68 Change pile batter on protected side to 1 on 3. JJP			
REVISION	DATE	DESCRIPTION	BY
DESIGNED:	DRAWN:	CHECKED:	CODE/IDENT. NO. SIZE FILE NO.
T.F.P.	E.J.C.	H.U.	H-4-24263
DATE:	SCALE SHOWN	SPEC. NO. DAWES	DWG. NO. 53 OF 78

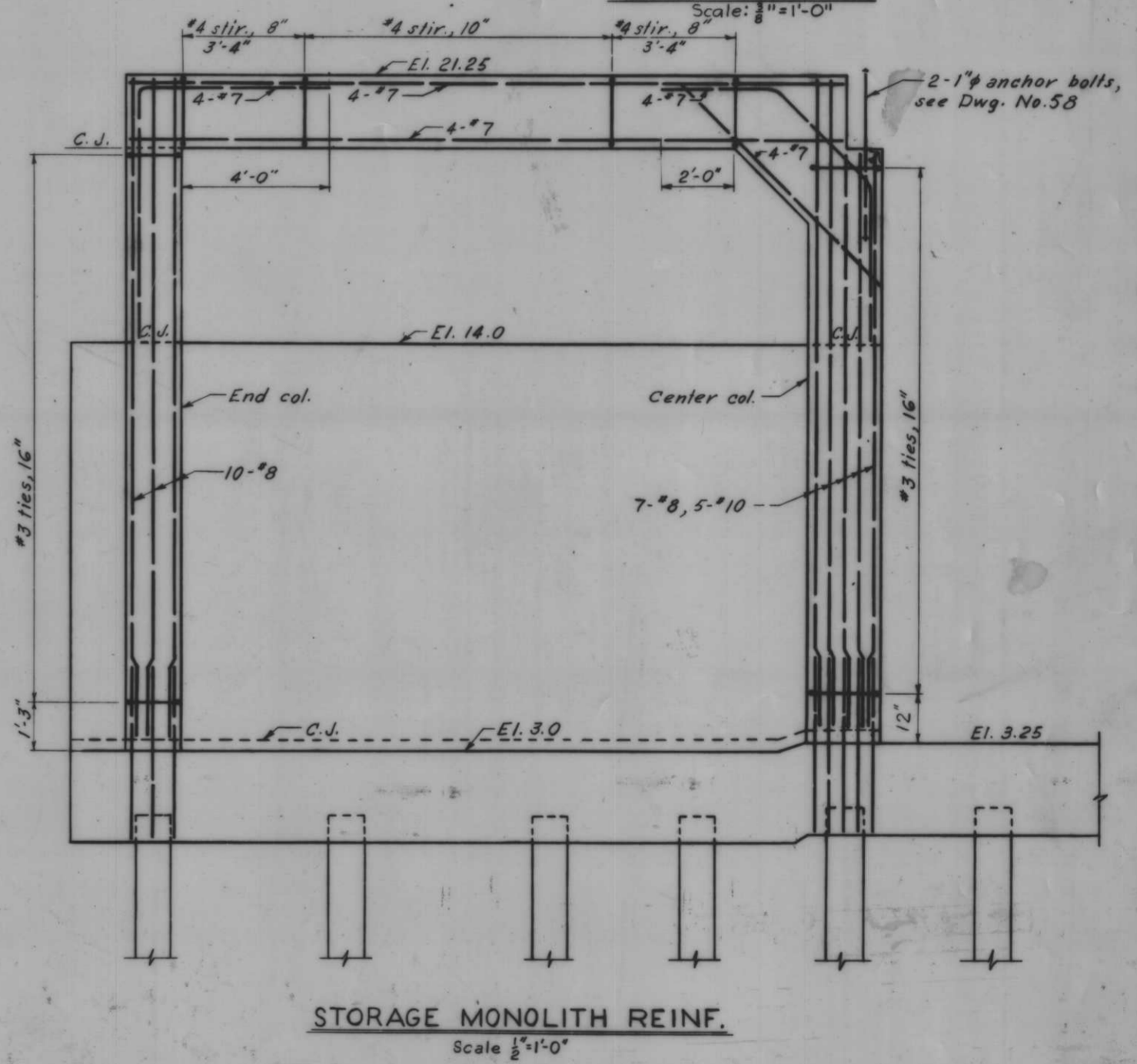
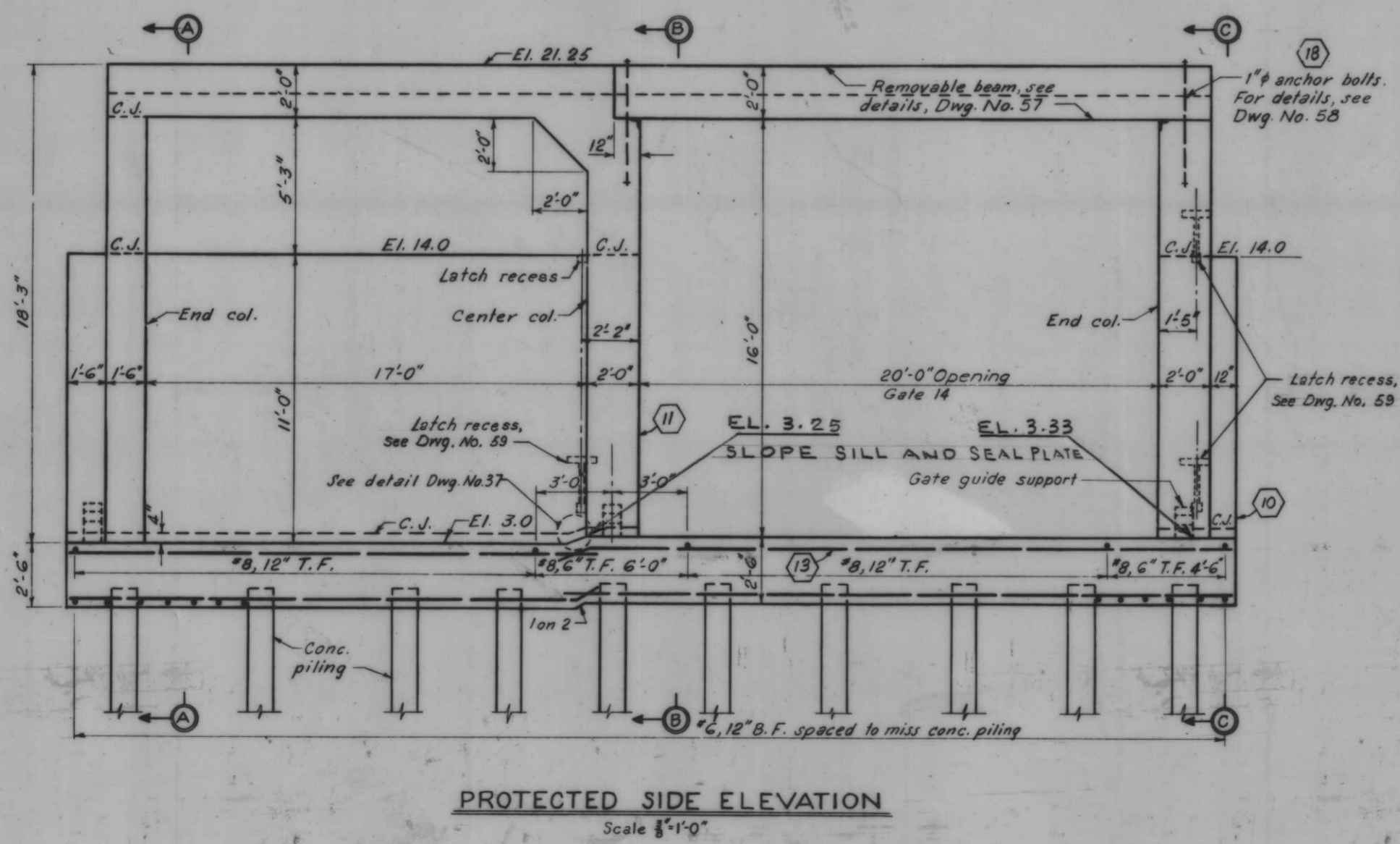
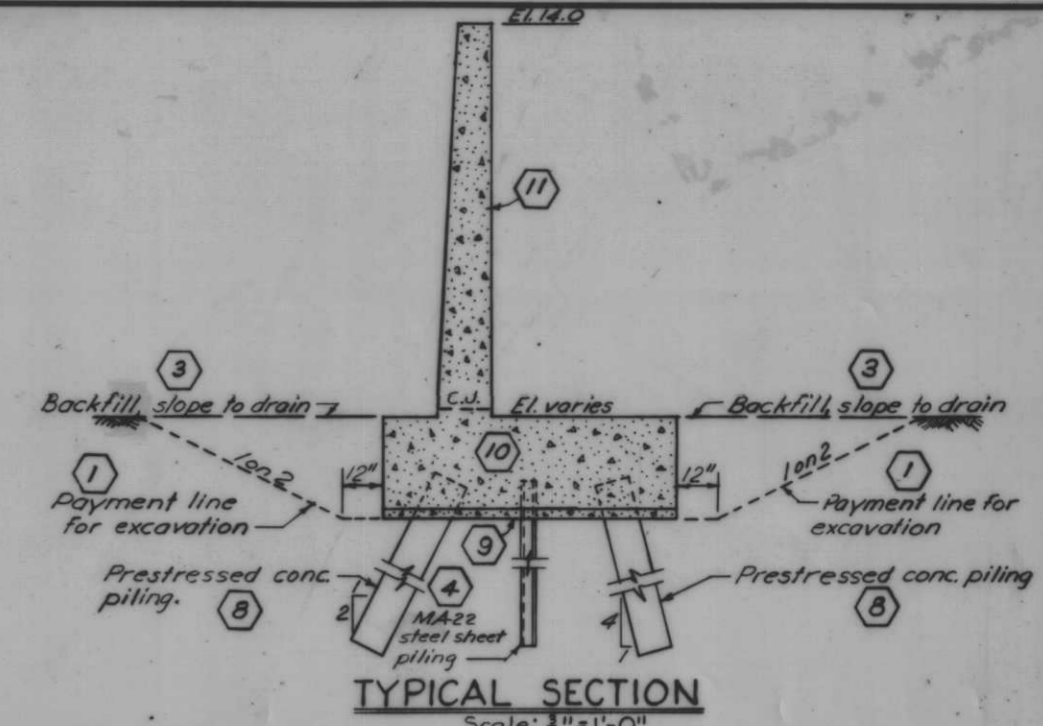
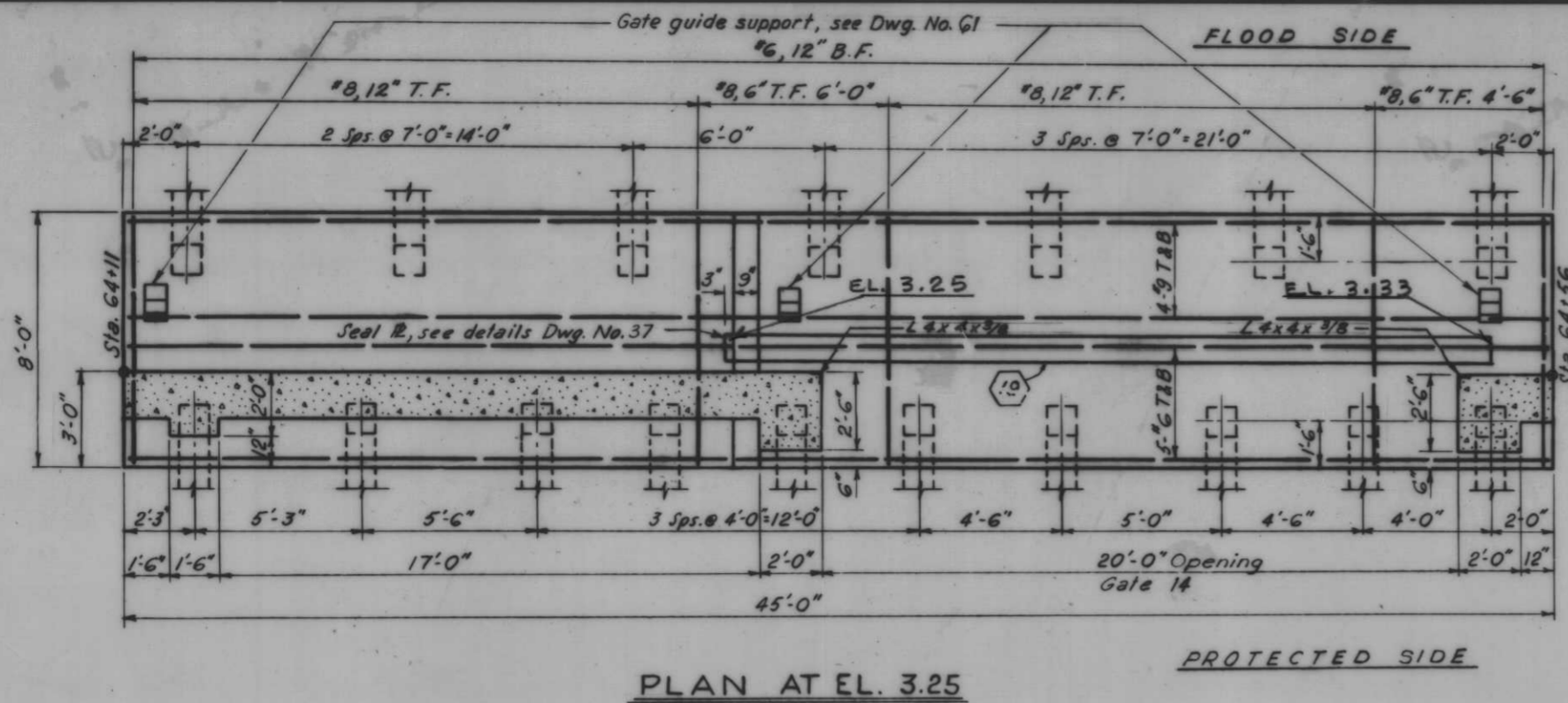


AS CONSTRUCTED

Note:
For general notes, see Dwg. No. 4.
All holes cut in sheet piling for reinf. shall not exceed 1 1/2" φ.

1 3 4 7 9 10 11 13 17 19
MONOLITH 138 - GATE 13

12-68 Revised pilings in plan.				J.U.P.			
DESIGNED	DATE	CHECKED	CODE IDENT. NO.	SIZE	FILE NO.	BY	
D.M.B.	H.H.	H.U.					H-4-24263
DATE:	SCALE: SHOWN	SPEC. NO. DACTED:	DWG. NO. 54 OF 78				

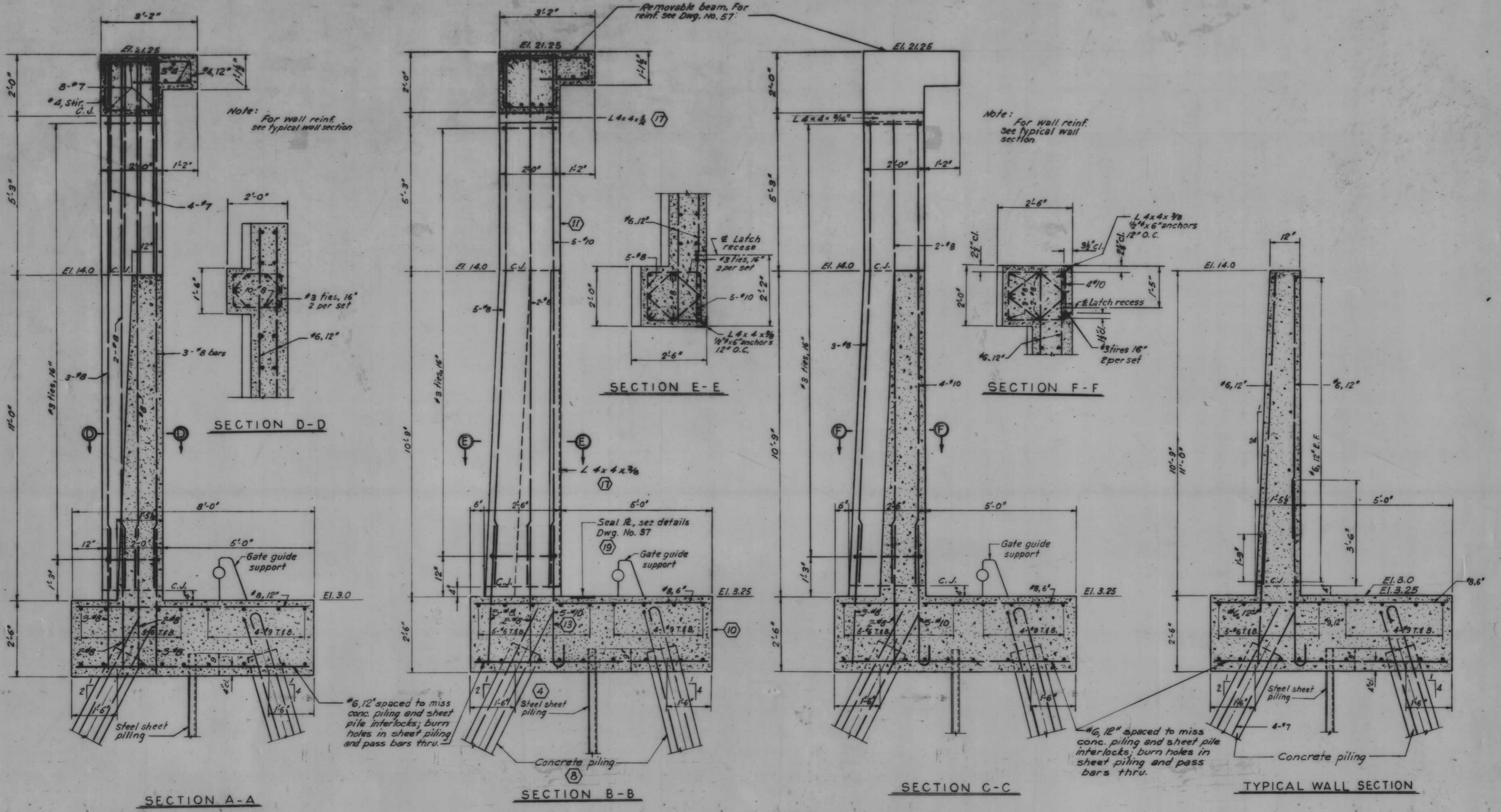


Note:
For general notes, see Dwg. No. 4.
All holes cut in sheet piling for reinf. shall not exceed 1/2" φ.

AS CONSTRUCTED

MONOLITH 145 - GATE 14

1	6-4-69	GATE SEAL ELEVATIONS	BY
DESIGNED	DATE	DESCRIPTION	BY
T.F.P.	D.J.H.	H.U.	H-4-24263
DATE:	SCALE: SHOWN	SPEC. NO. DAWEB-	DWG. NO. 65 OF 78



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

Note:
For location of sections A-A, B-B and C-C, see Dwg. No. 55.
All holes out in sheet piling for reinf. shall not exceed 1 1/2".

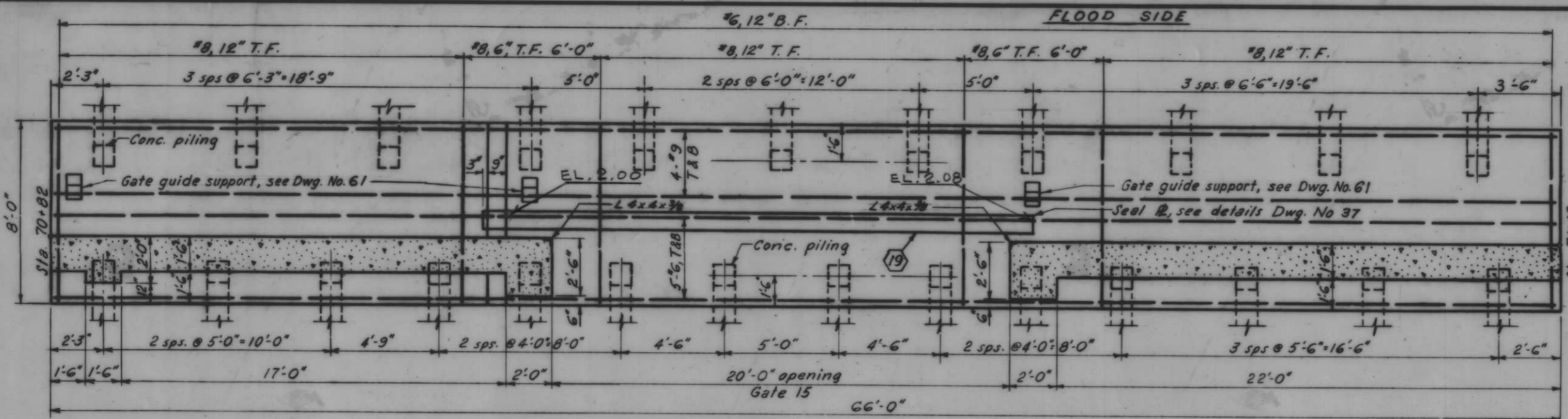
AS CONSTRUCTED

MONOLITH 145 - GATE 14

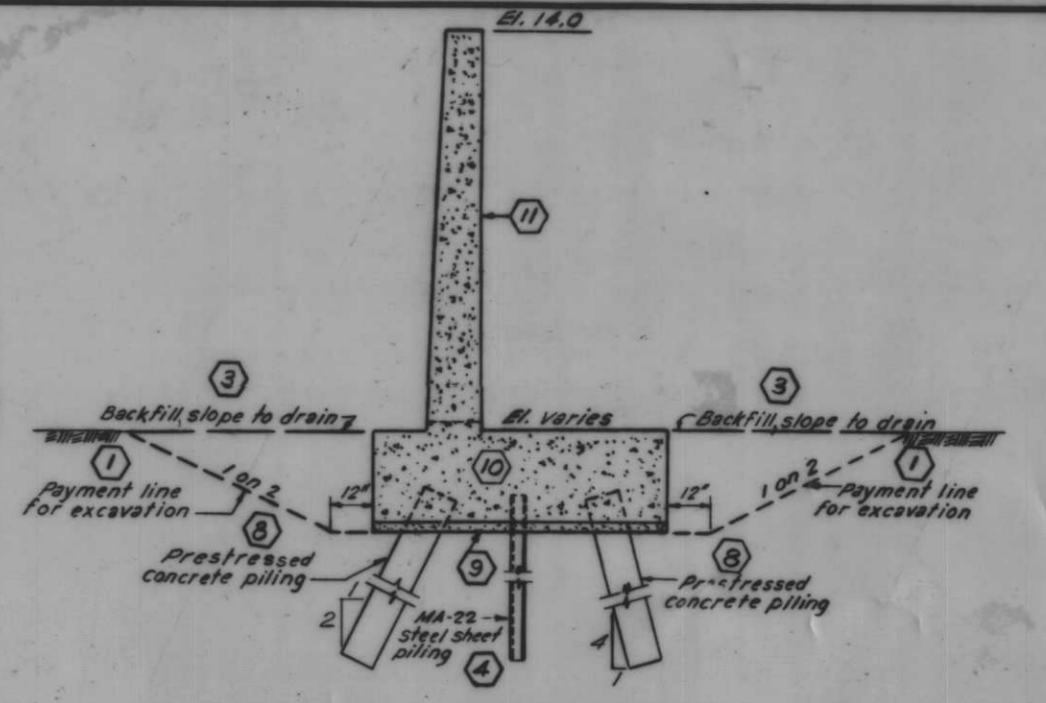
REVISION	DATE	DESCRIPTION	BY
DESIGNED:			
T.F.P.	E.J.C.	H.U.	
DATE:		SCALE: SHOWN	SPEC. NO. DACWS-
			DWG. NO. 56 OF 78

H-4-24263

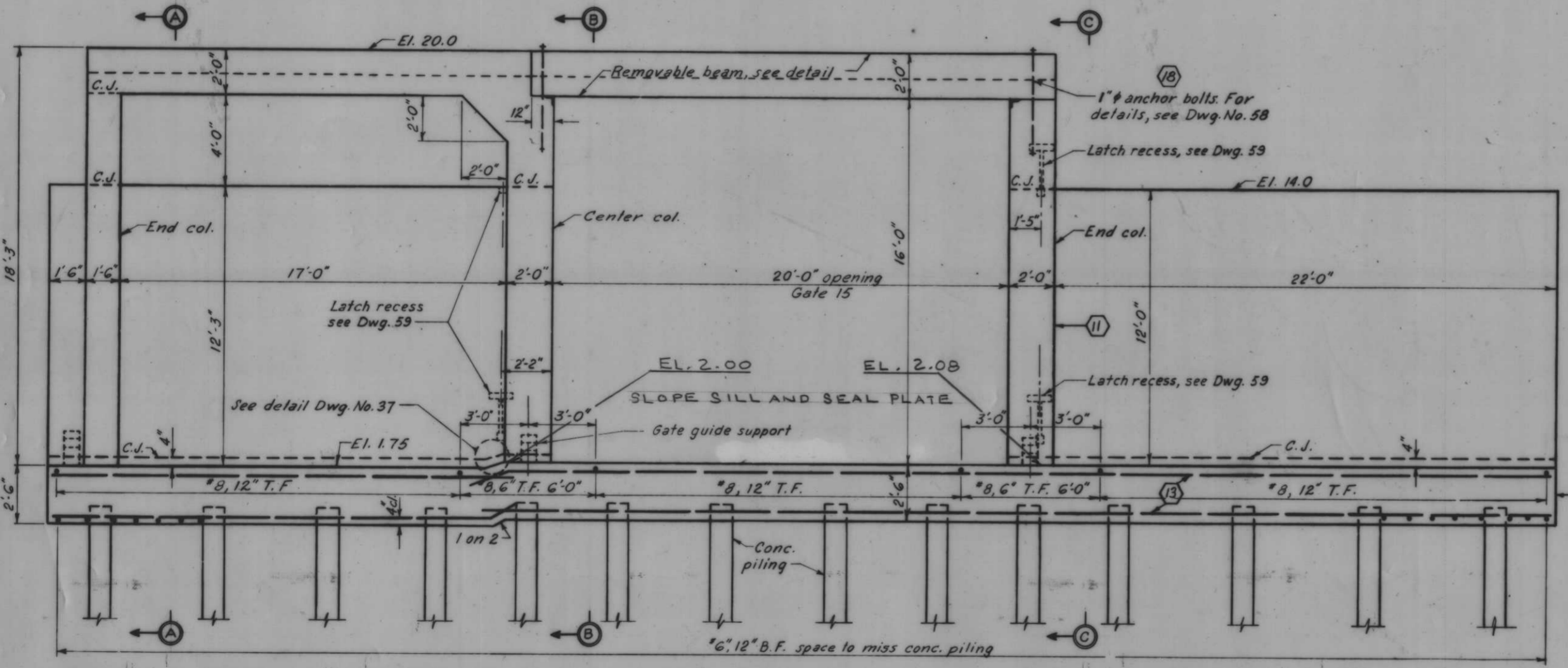
IHNC, WEST LEVEE, FLA. AVE. TO IHNC LOCK - FLOODWALL



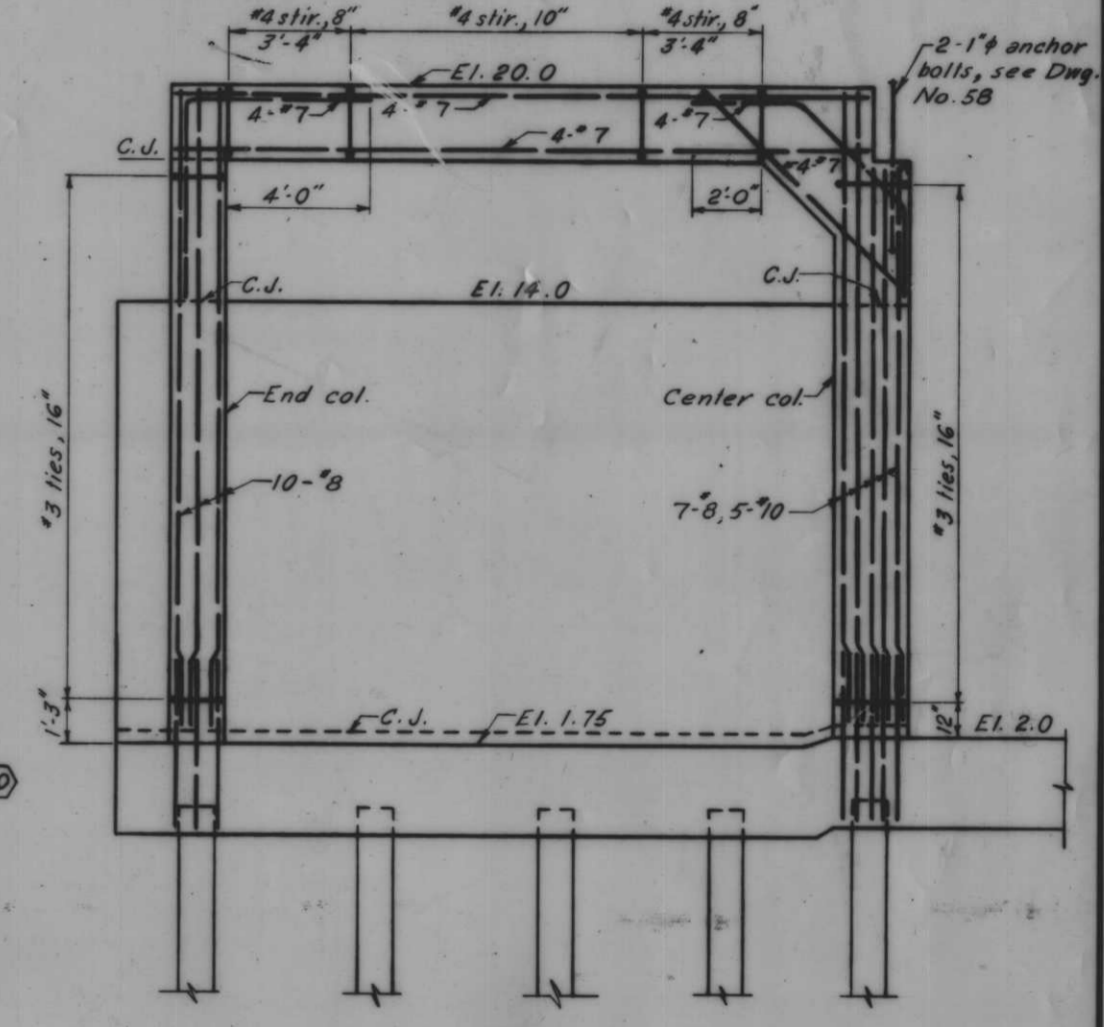
PLAN AT EL. 2.0 PROTECTED SIDE



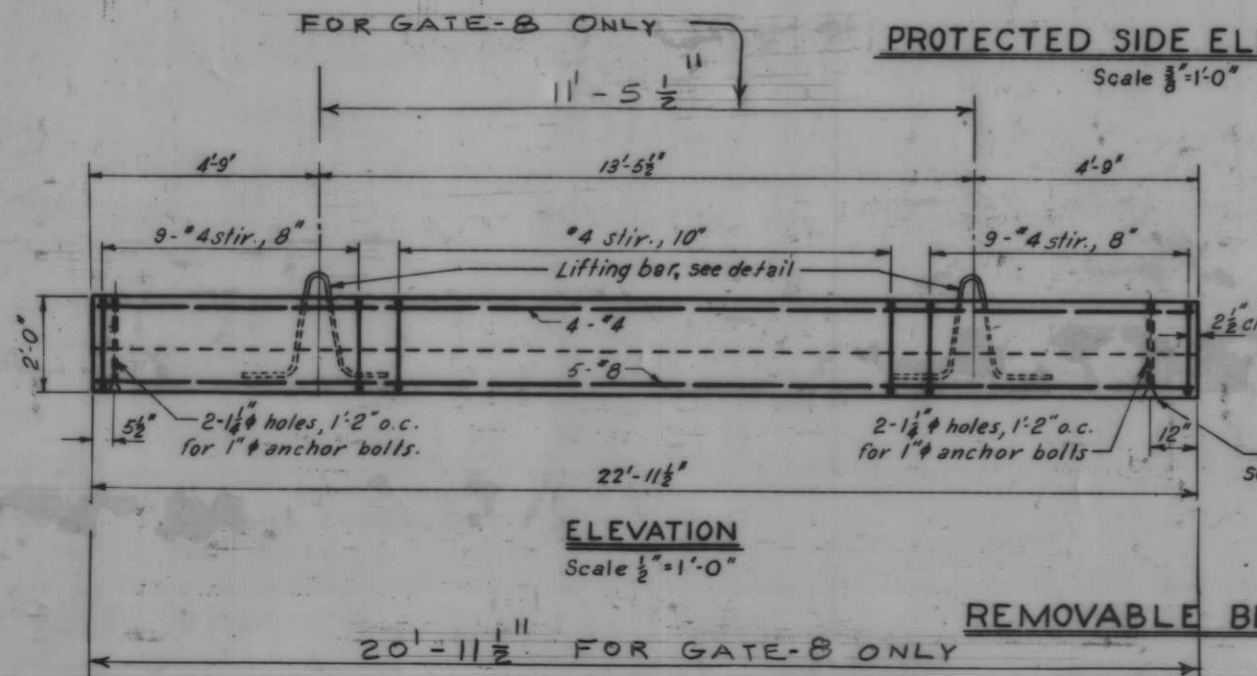
TYPICAL SECTION Scale: 3/8"=1'-0"



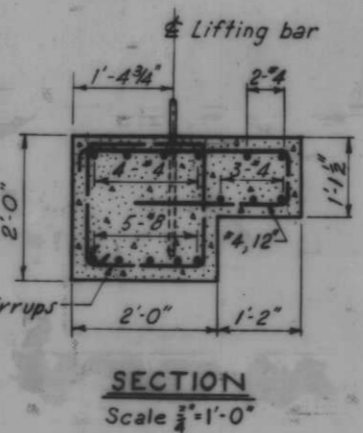
PROTECTED SIDE ELEVATION Scale: 3/8"=1'-0"



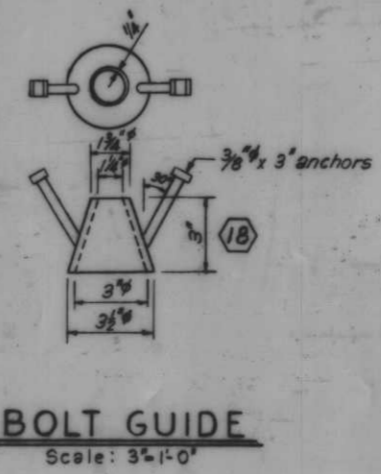
STORAGE MONOLITH REINF. Scale: 3/8"=1'-0"



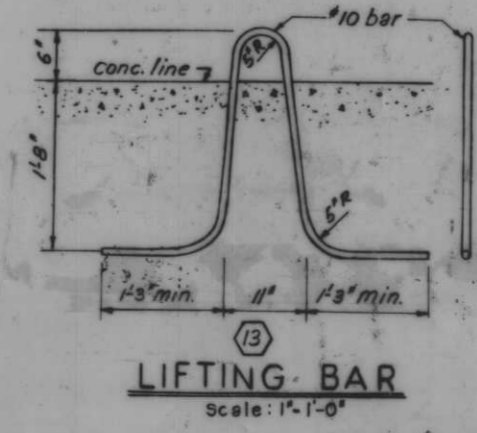
ELEVATION Scale: 1/2"=1'-0"



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



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



LIFTING BAR Scale: 1"=1'-0"

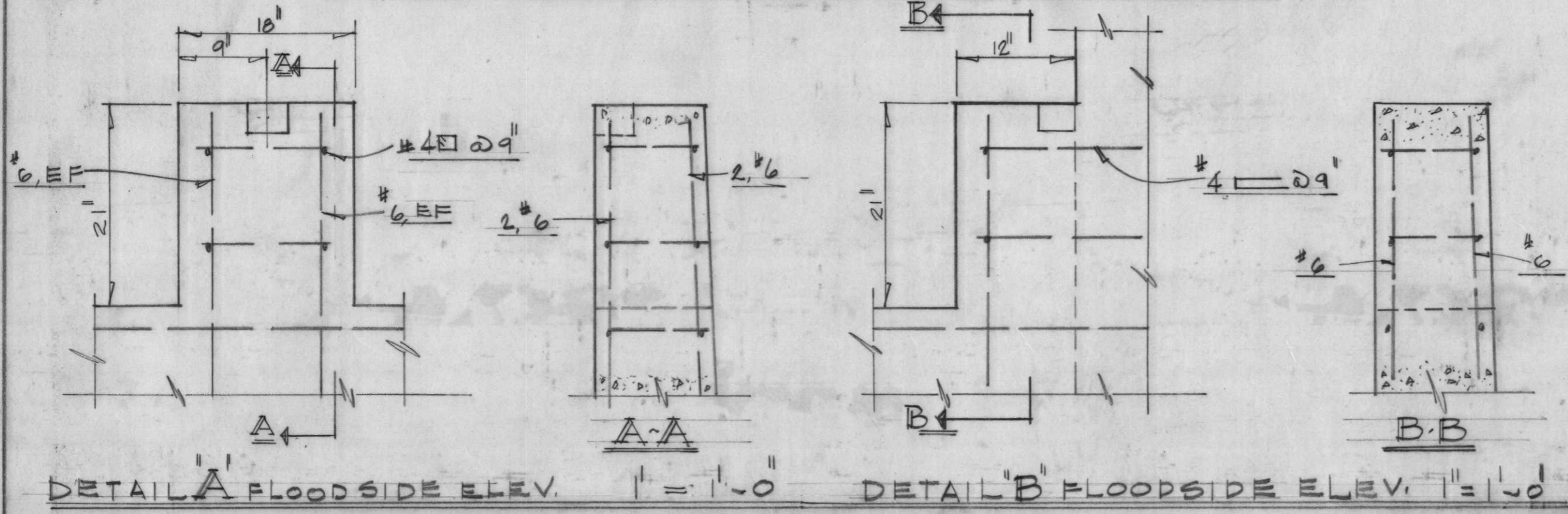
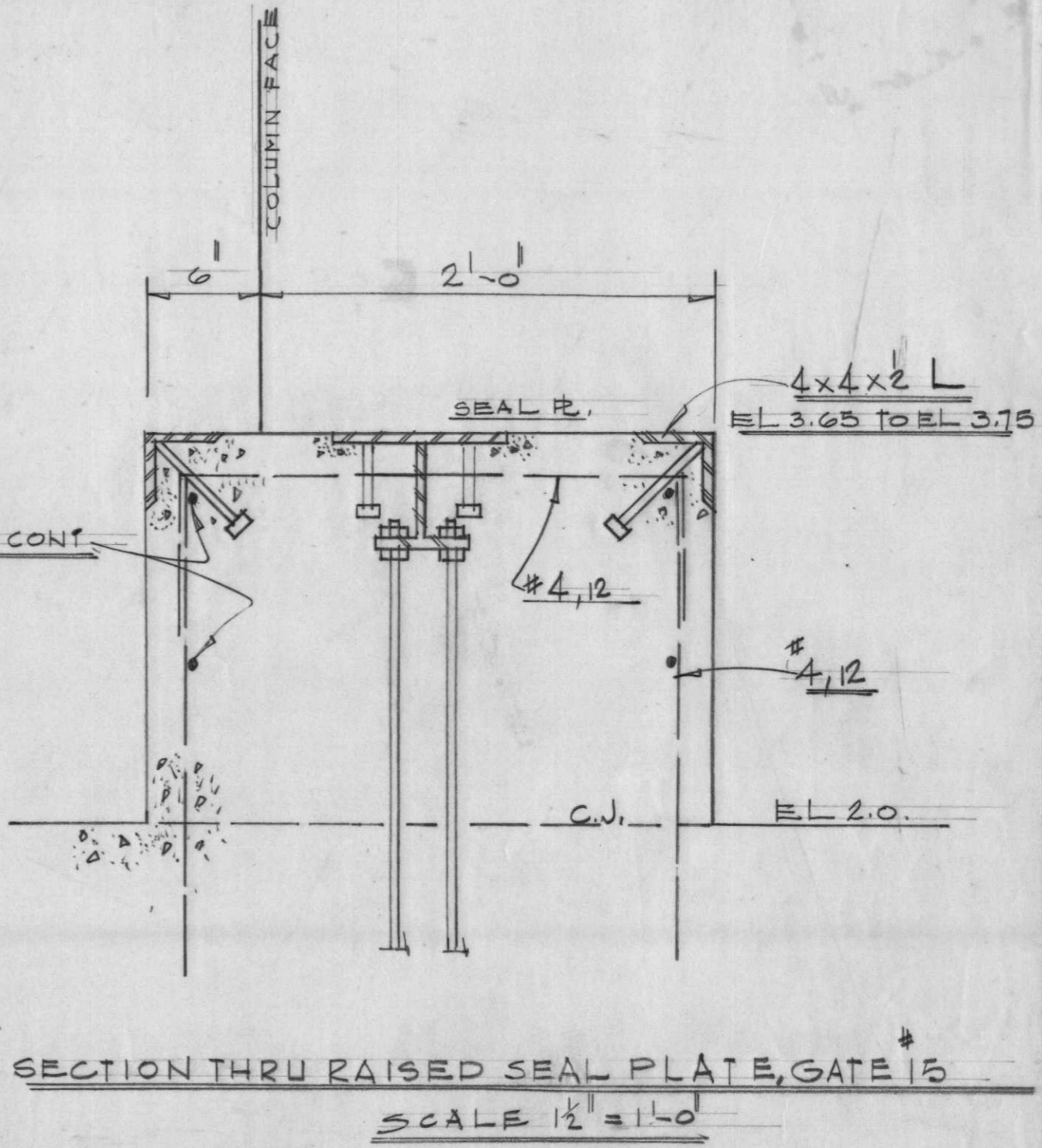
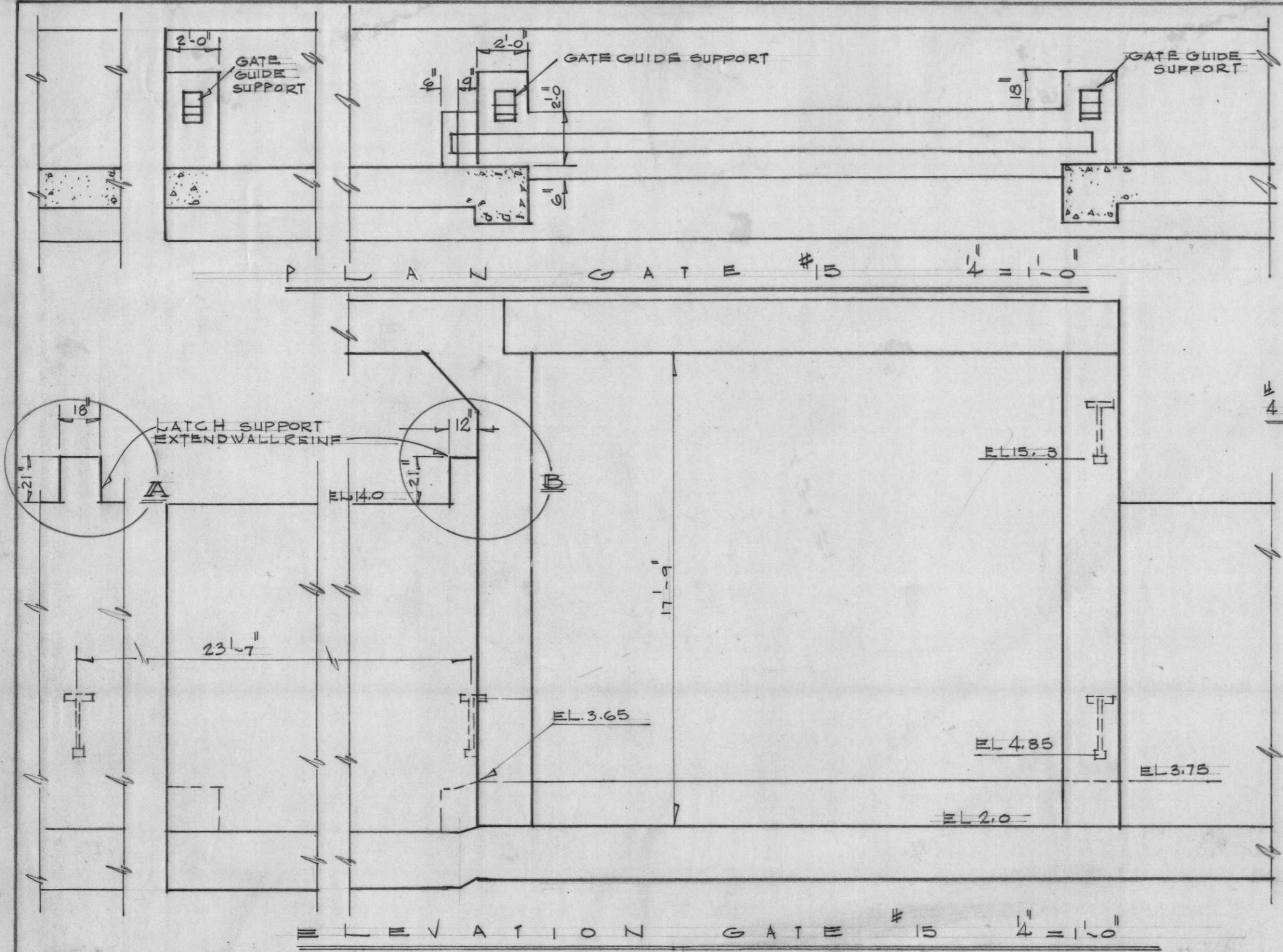
Note: For general notes, see Dwg. No. 4. All holes cut in sheet piling for reinf. shall not exceed 1 1/2" dia.

AS CONSTRUCTED

MONOLITH 158 - GATE 15

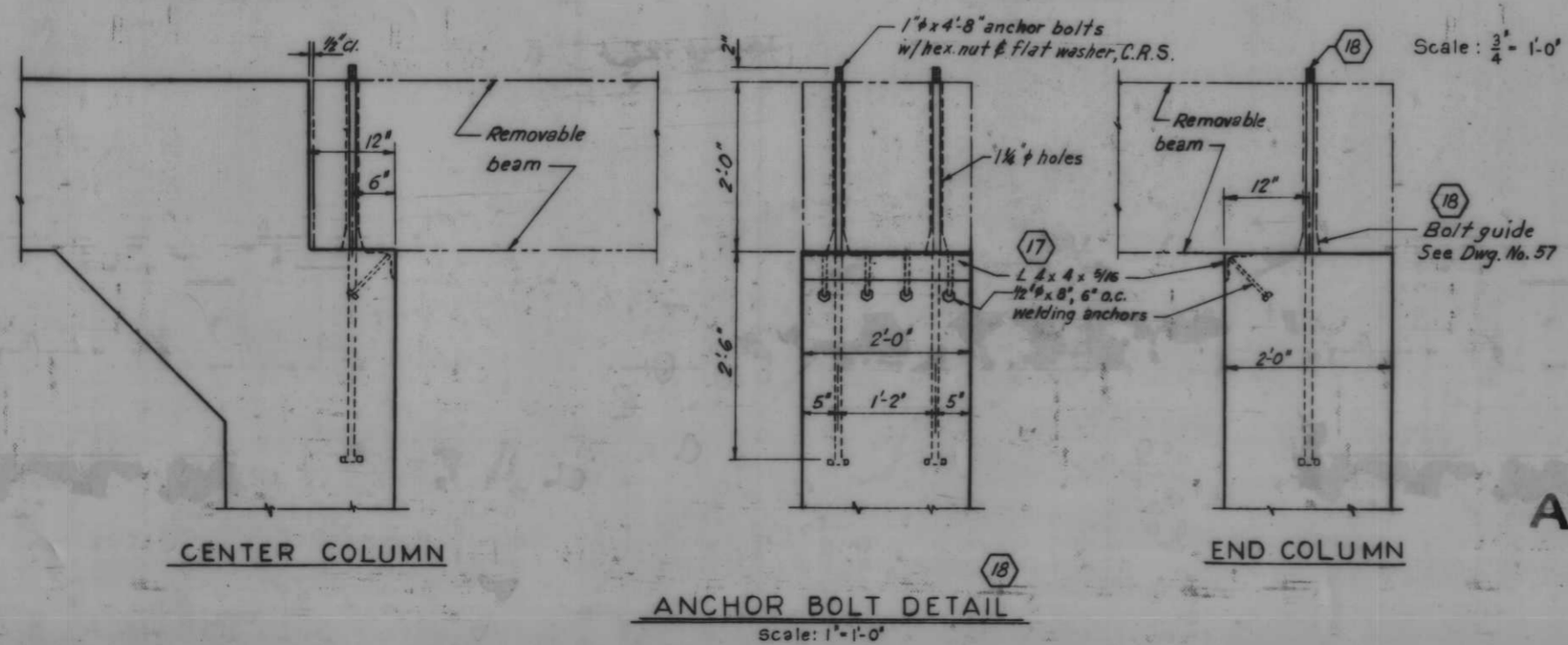
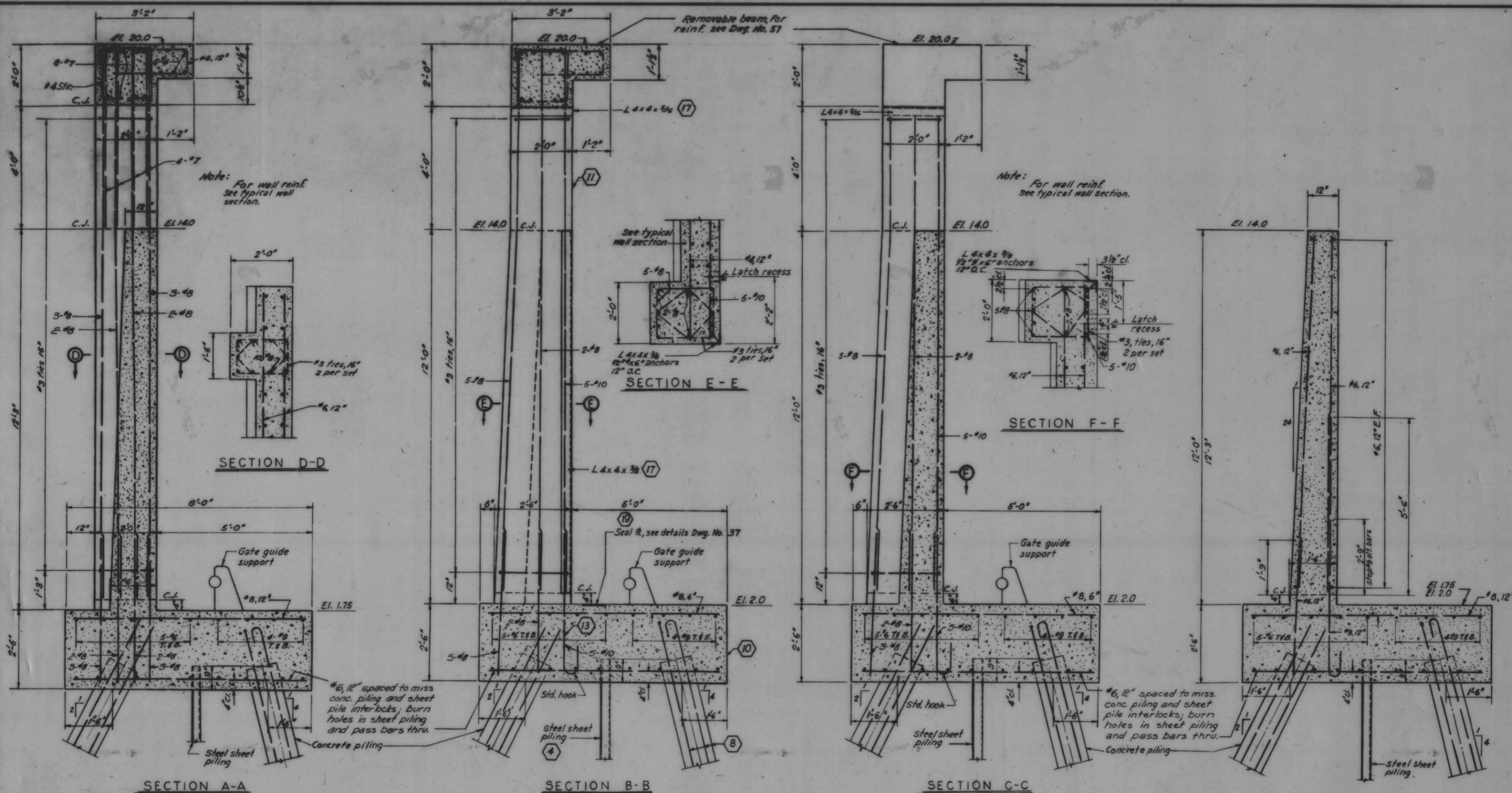
REVISION	DATE	CHECKED	CODE	ISSY. NO.	FILE NO.	DESCRIPTION	BY
2	6-12-69					REMOVABLE BEAM DETAIL	
1	6-4-69					GATE SEAL ELEVATIONS	

DESIGNED: D.A.M. DRAWN: D.J.H. CHECKED: M.U. SCALE: SHOWN SPEC. NO. DACKWB. FILE NO. H-4-24263 DATE: DWG. NO. 57 OF 78



AS CONSTRUCTED

MODIFICATION	H-4-24263 A
GATE 15. PART 1/2	

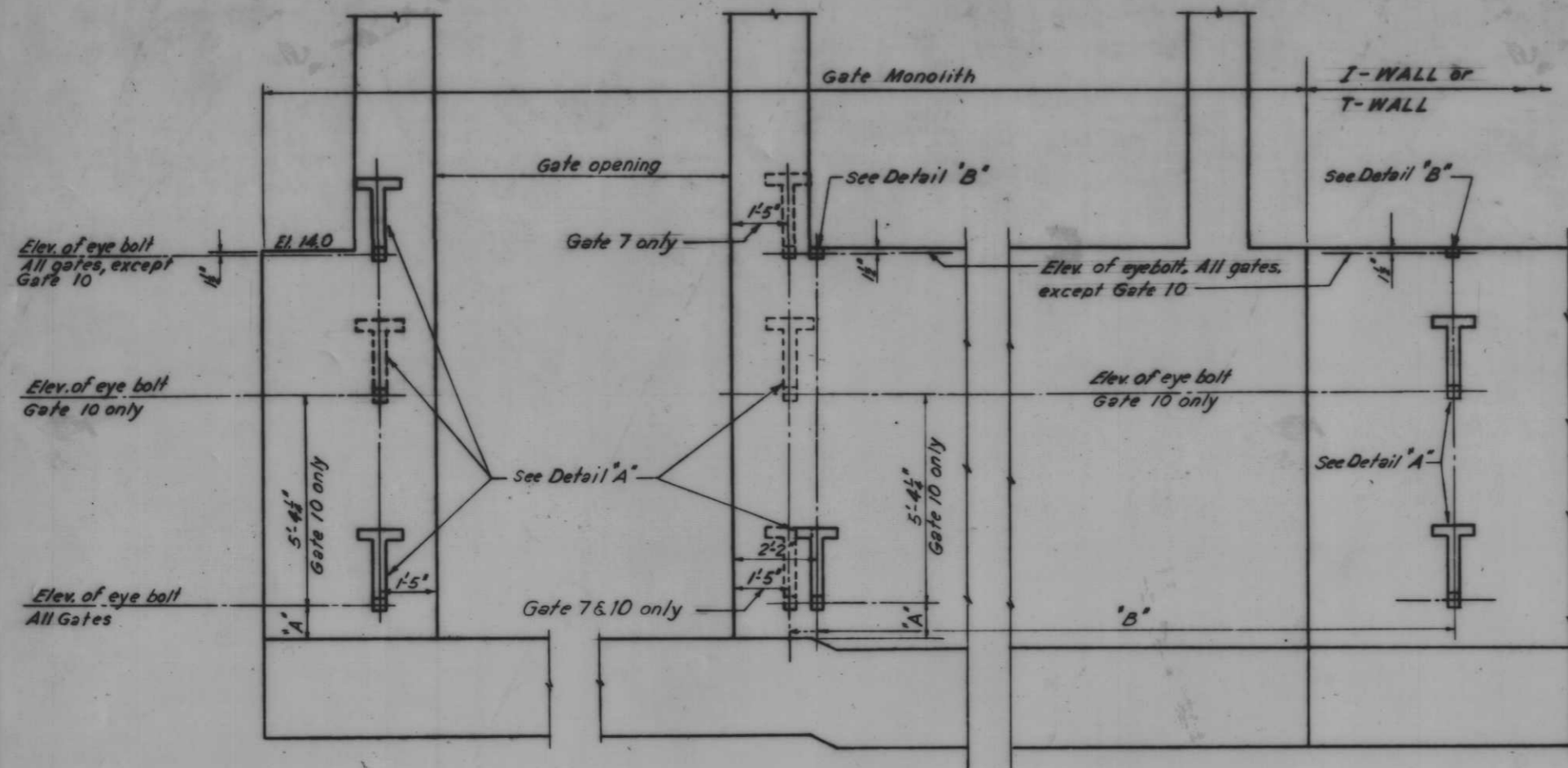


AS CONSTRUCTED

MONOLITH 158 - GATE 15

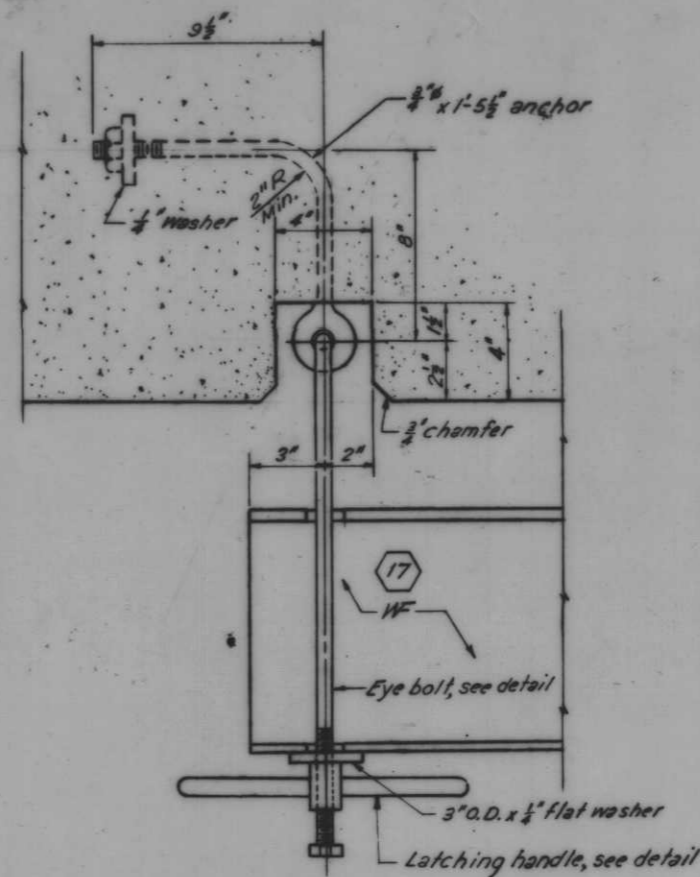
Note: For location of sections A-A, B-B and C-C see Dwg. No. 57
All holes cut in sheet piling for reinf. shall not exceed 1 1/2" φ.

REVISION	DATE	DESCRIPTION	BY
DESIGNED	DRAWN	CHECKED	CODE IDENT. NO. SIZE FILE NO.
D.A.M.	E.J.C.	H.U.	H-4-24263
DATE:	SCALE: SHOWN	SPEC. NO. DAWES:	DWG. NO. 58 OF 78



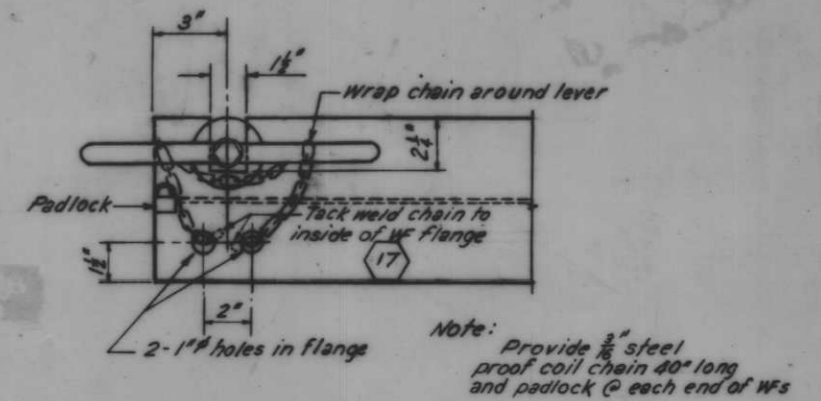
FLOOD SIDE ELEVATION OF OVERHEAD ROLLER GATE MONOLITHS

Scale: 1/2" = 1'-0"



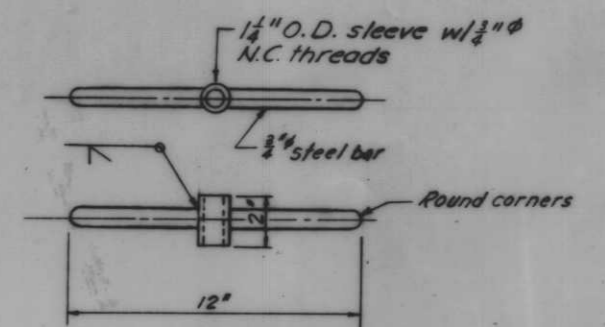
LATCHING ASSEMBLY

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



END OF GATE WFS

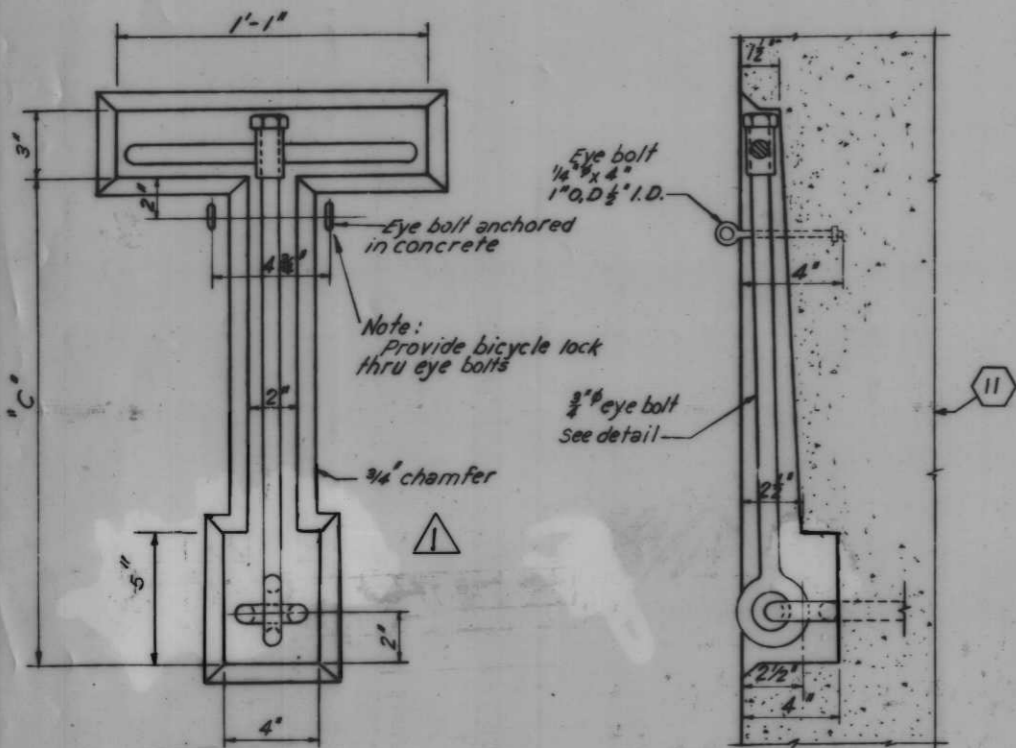
Scale: 3/4" = 1'-0"



LATCHING HANDLE

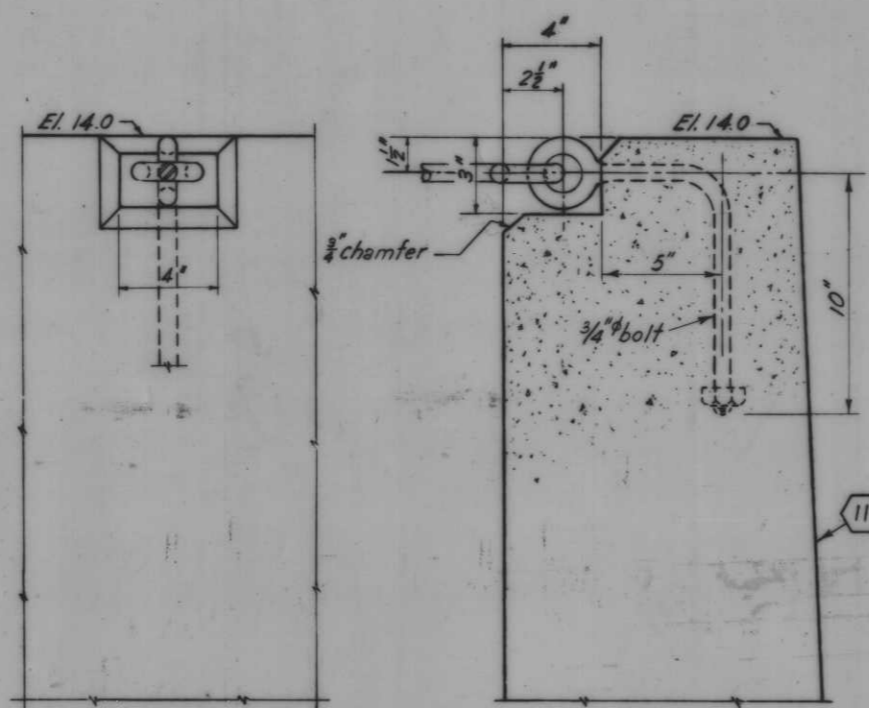
Scale: 3/4" = 1'-0"

GATE NO.	"A"	"B"	"C"	"D"
1	13 1/2"	23'-7"	24'	24'
2	9 1/2"	23'-7"	22'	22"
3	-	-	26'	26"
4	9 1/2"	23'-7"	22'	22"
5	9 1/2"	23'-7"	22'	22"
6	9 1/2"	23'-7"	22'	22"
7	7 1/2"	17'-10"	20'	20"
8	9 1/2"	21'-7"	24'	24"
10	10 1/2"	32'-10"	34'	36"
11	-	-	26'	26"
12	9 1/2"	23'-7"	24'	24"
13	-	-	26'	26"
14	13 1/2"	23'-7"	24'	24"
15	13 1/2"	23'-7"	24'	24"

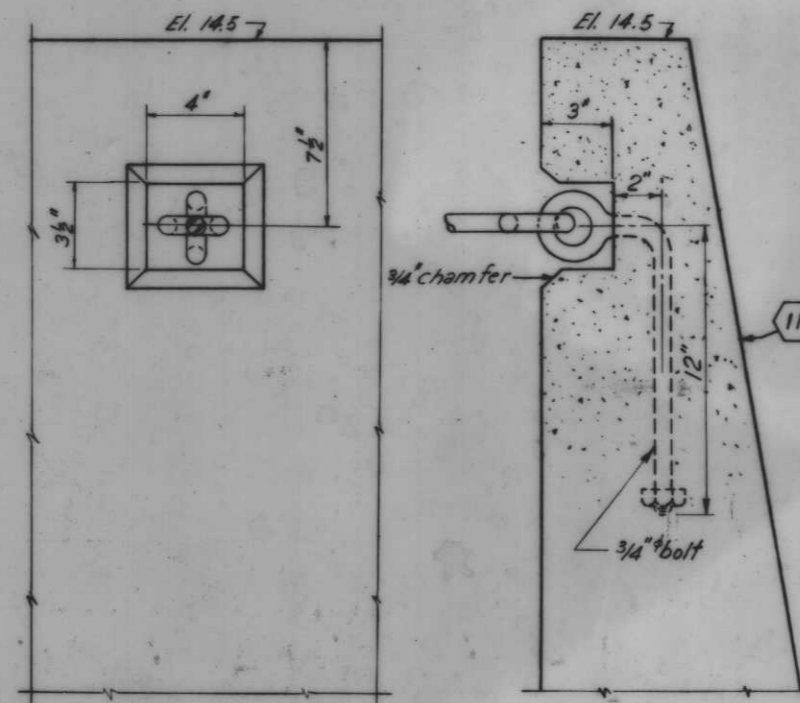


DETAIL 'A'

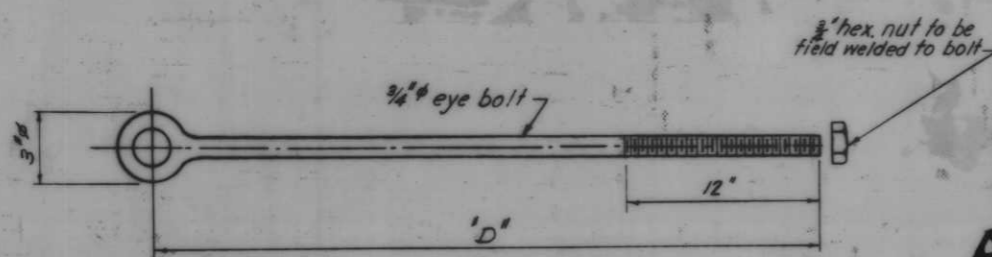
Scale: 3/4" = 1'-0"



TIE DOWN TO T-WALL



TIE DOWN TO I-WALL



EYE BOLT

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

DETAIL 'B'

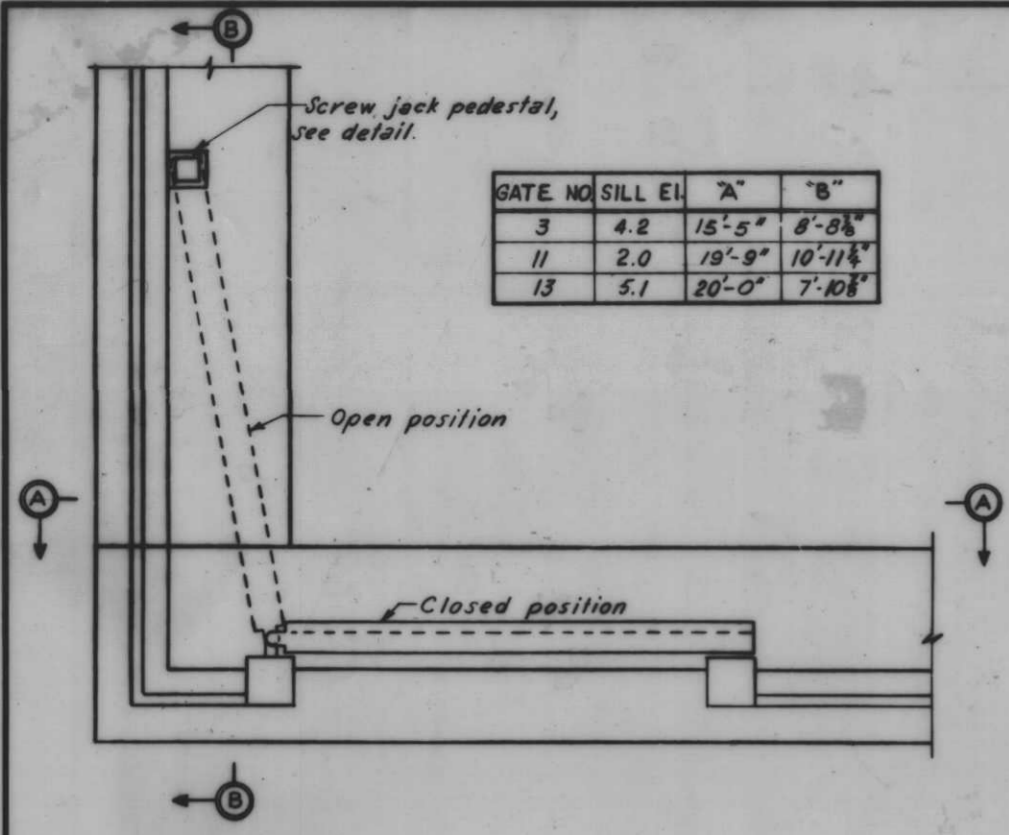
Scale: 3/4" = 1'-0"

AS CONSTRUCTED

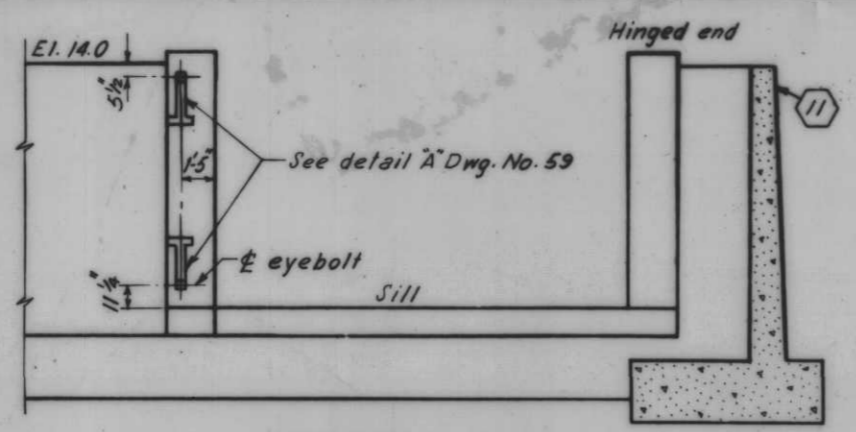
OVERHEAD ROLLER GATE LATCHING DEVICE

Note: All work on this drawing will be paid for at contract price item except as noted. For general notes, see Dwg. No. 4

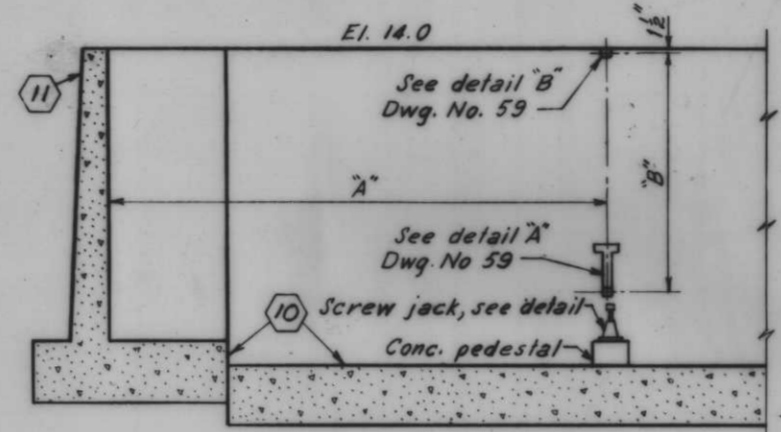
DESIGNED: J.S.H.	DRAWN: E.J.C.	CHECKED: H.U.	CODE IDENT. NO.	SIZE	FILE NO.	BY
4.4.69 DETAIL A RECESS DIMENSION CHANGE						H-4-24263
DATE:	SCALE: SHOWN	SPEC. NO. D.A.C.W.S.	DWG. NO. 59 OF 78			



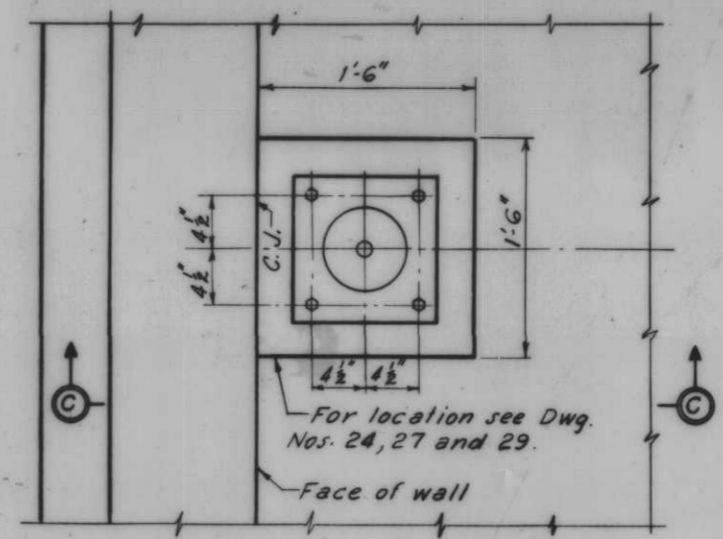
PLAN OF SWING GATE
(REVERSE POSITION FOR GATE THAT OPENS CLOCKWISE)
Scale: 1/4" = 1'-0"



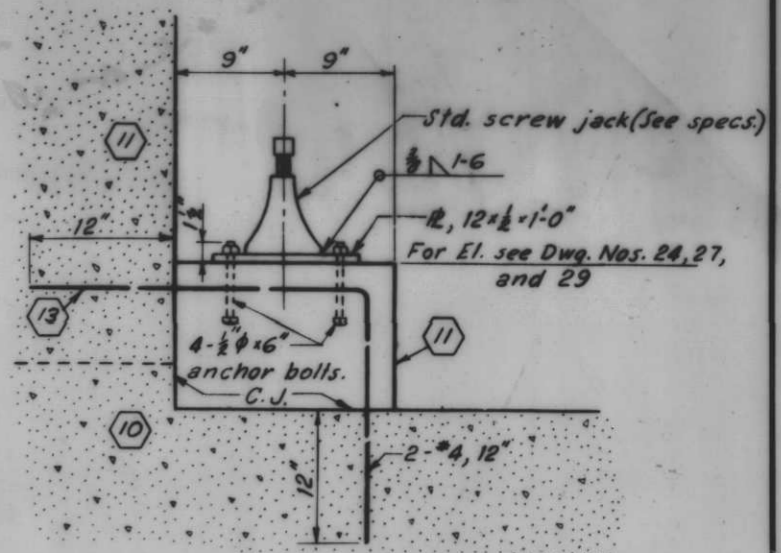
SECTION A-A
Scale: 1/4" = 1'-0"



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



PLAN



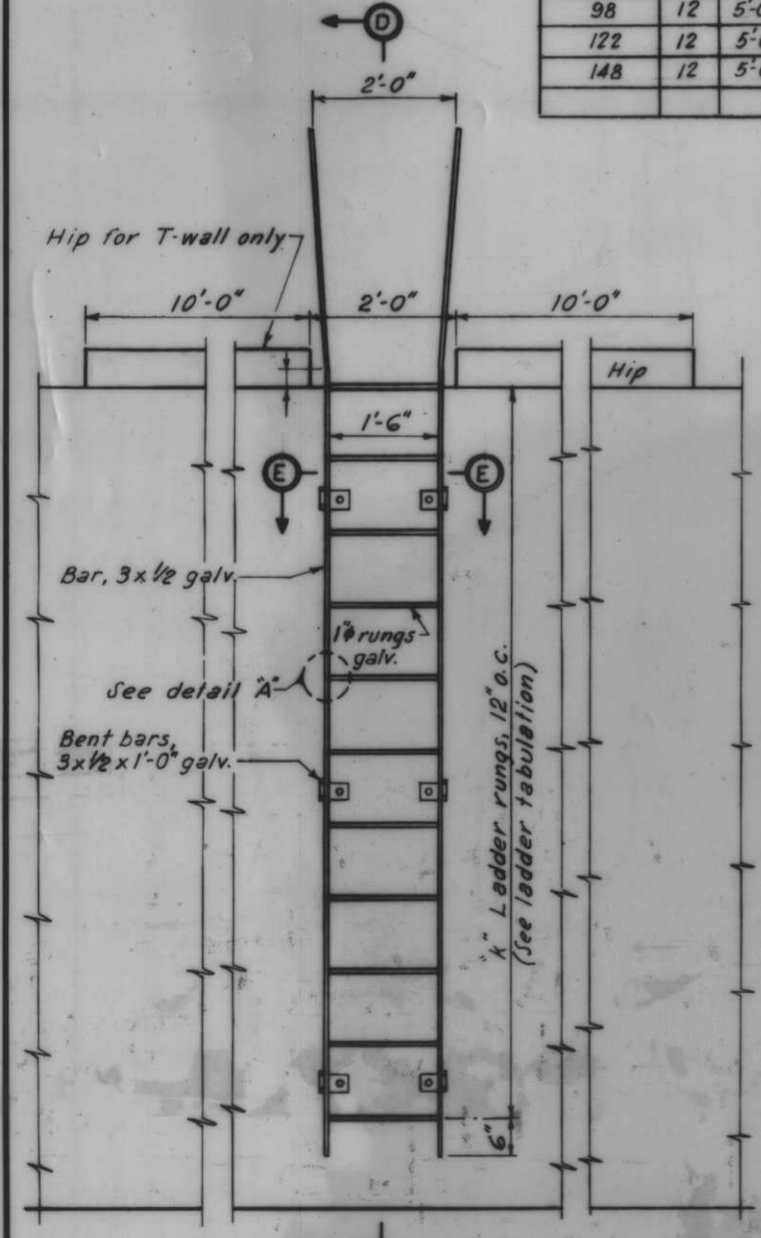
SECTION C-C

SCREW JACK AND PEDESTAL
NOTE: FOR GATE NO. 11 NO CONCRETE PEDESTAL REQ'D. ANCHOR SCREW JACK AND ϕ DIRECTLY TO FLOODWALL SILL.

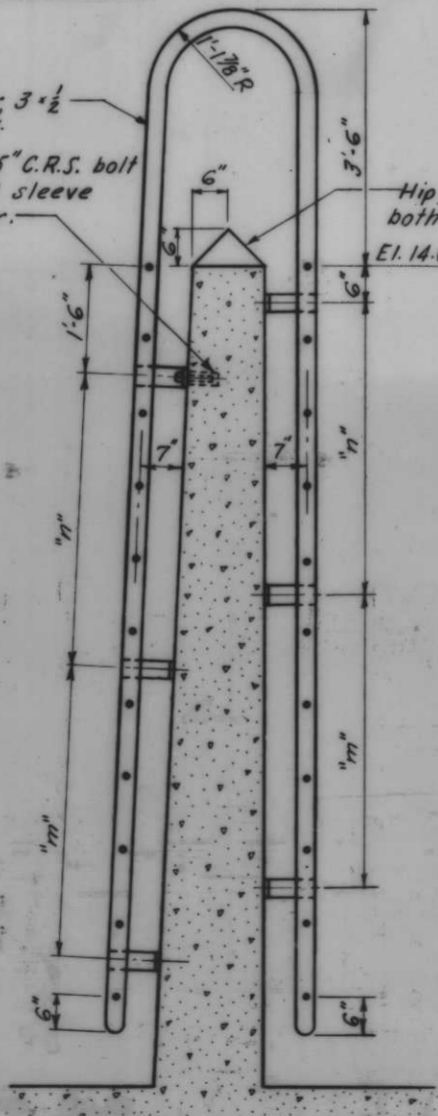
Scale: 1/2" = 1'-0"

LADDERS OVER T-WALL

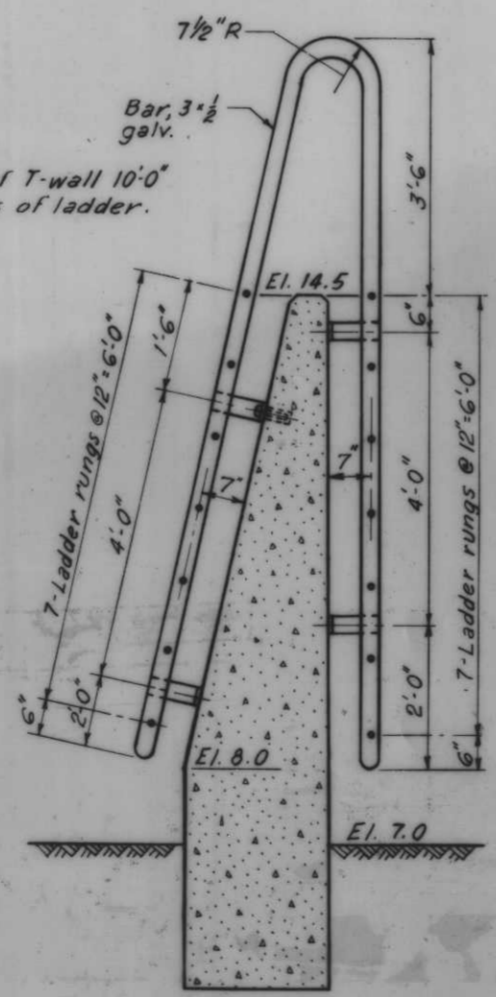
Mon. No.	"k"	"m"	"n"	#/ladder s/b.
40	11	4'-0"	4'-0"	12+58
98	12	5'-0"	4'-0"	38+18
122	12	5'-0"	4'-0"	52+48
148	12	5'-0"	4'-0"	65+48



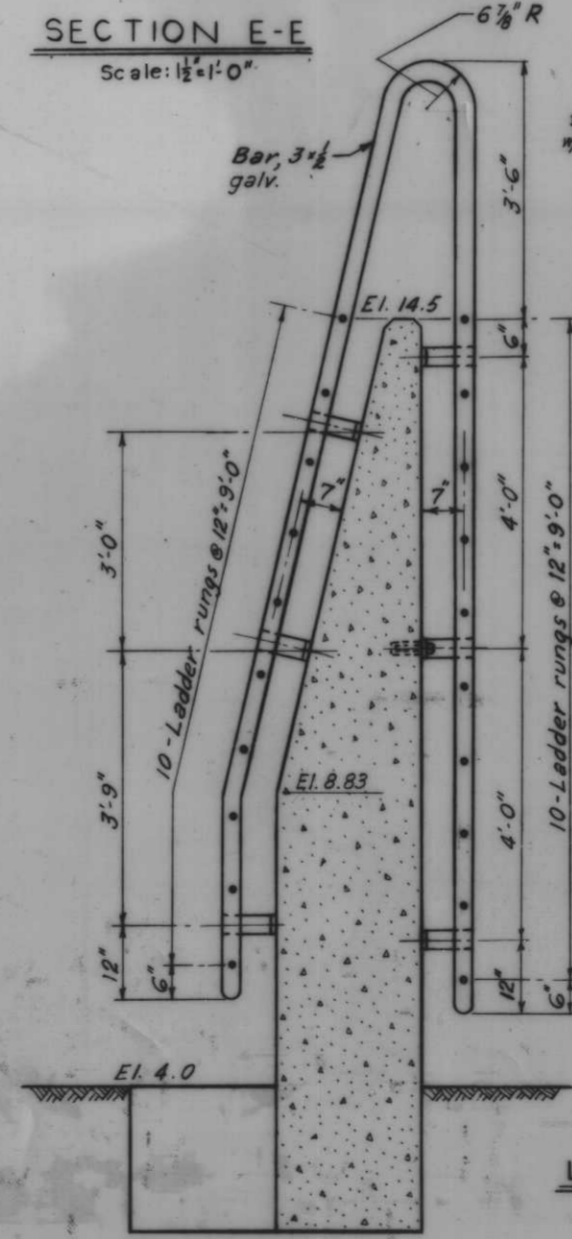
LADDER ELEVATION AT T-WALL



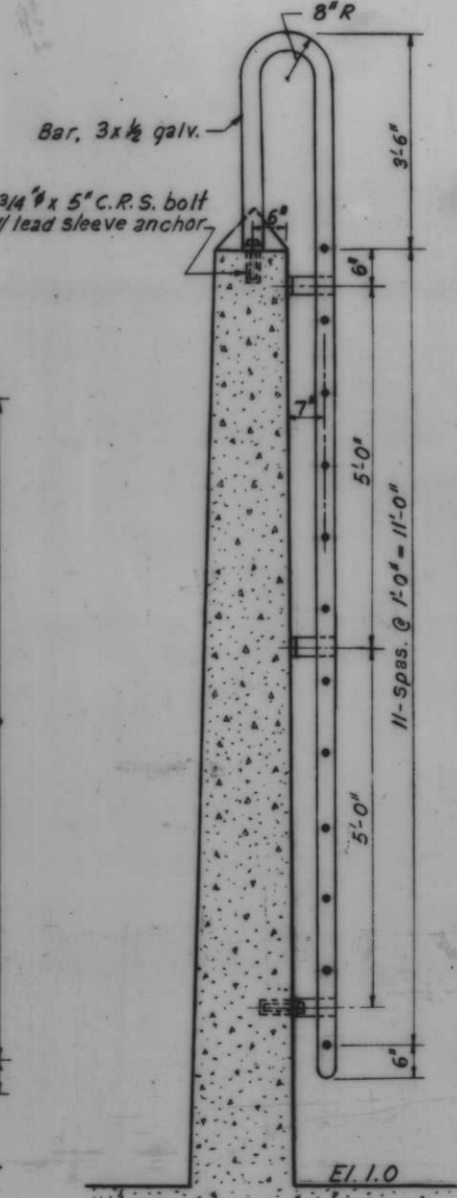
SECTION D-D



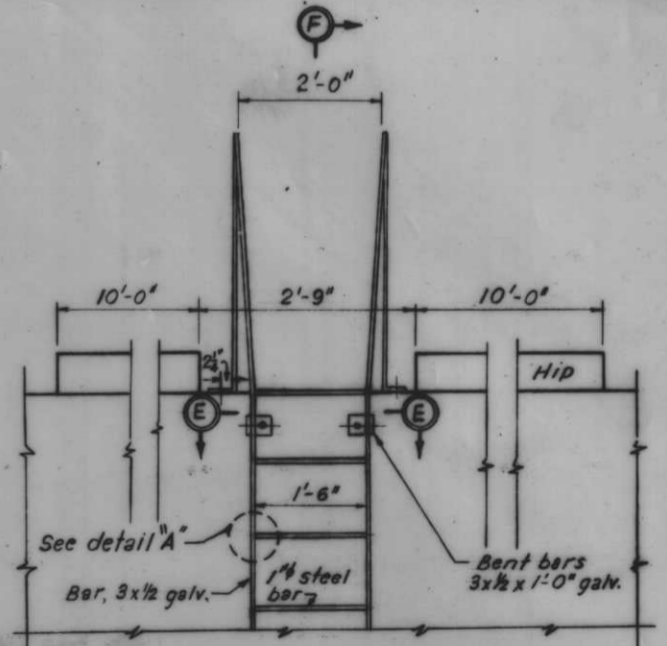
LADDER AT STA. 21+25
MONOLITH NO. 65



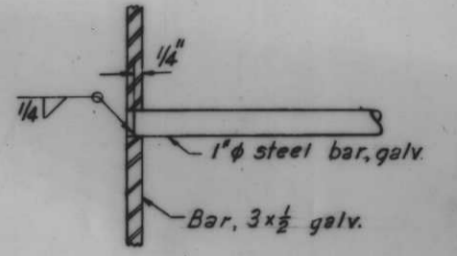
LADDER AT STA. 28+90
MONOLITH NO. 79



LADDER AT STA. 33+88 & 42+25
MONOLITH NO. 91 & 105
SECTION F-F



FLOOD SIDE ELEVATION



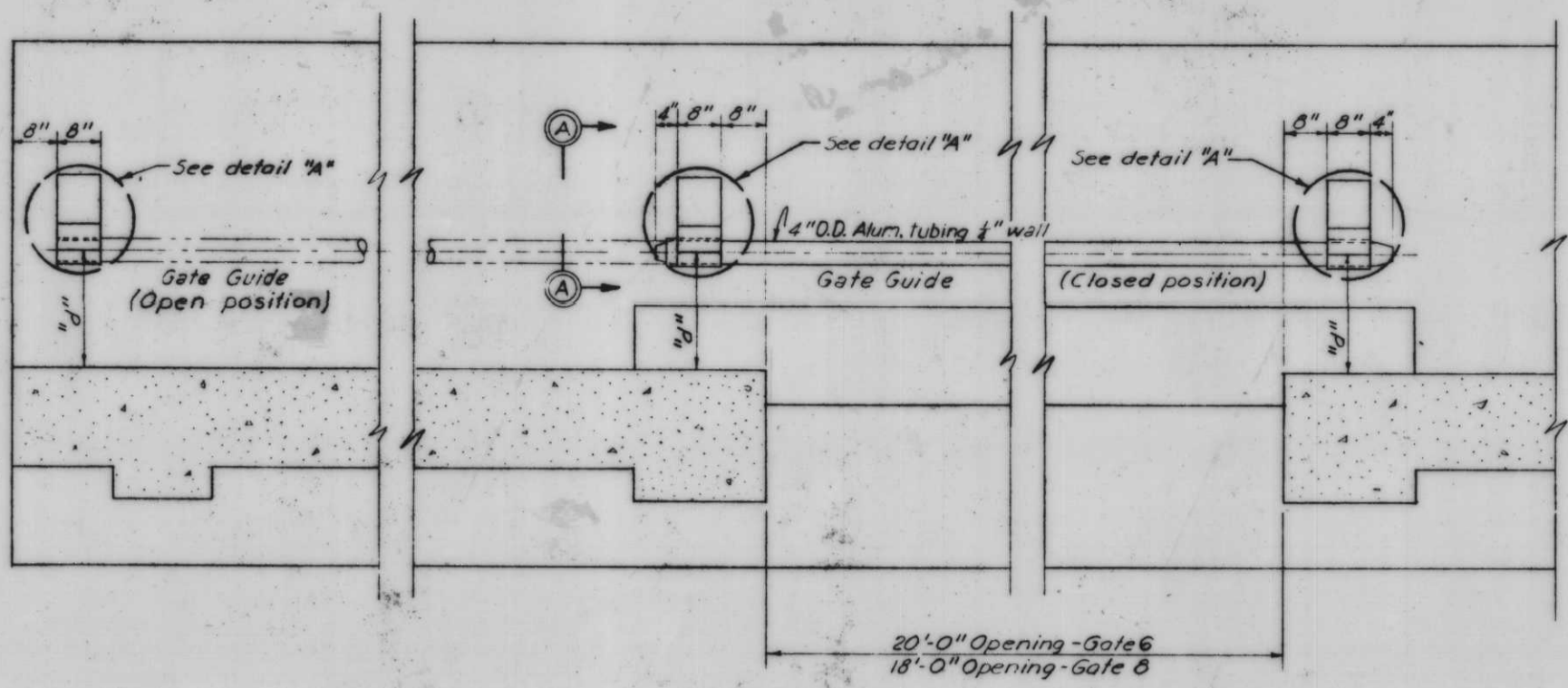
DETAIL A
Scale: 3/4" = 1'-0"

AS CONSTRUCTED

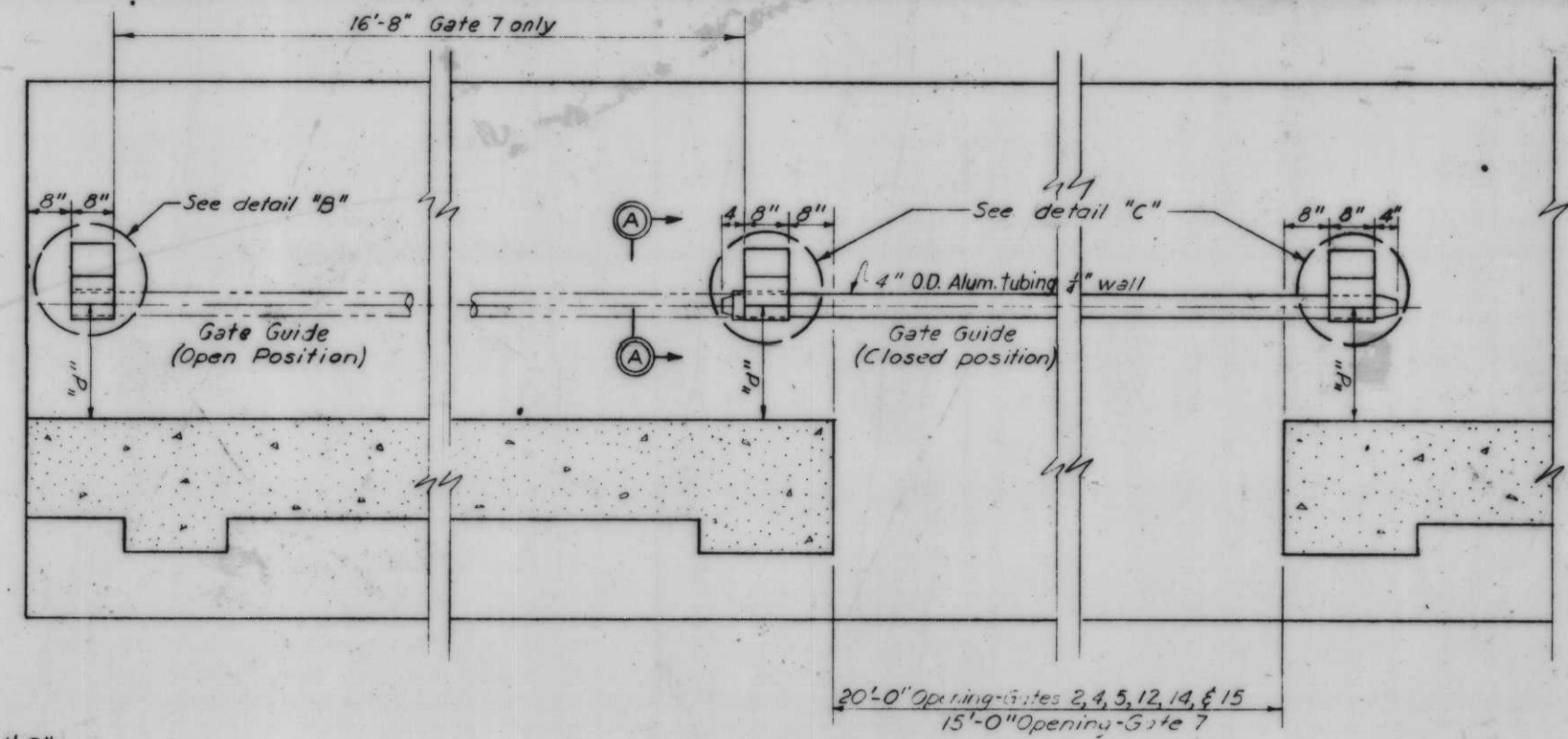
LADDER DETAILS
Scale: 3/4" = 1'-0"

Notes: For general notes, see Dwg. No. 4. All work on this drawing will be paid for at contract price item (18) except as noted.

REVISION	DATE	DESCRIPTION	BY						
DESIGNED	D.A.M.	DRAWN	D.J.H.	CHECKED	J.S.H.	CODE IDENT. NO.	SIZE	FILE NO.	H-4-24263
DATE:	SCALE: SHOWN	SPEC. NO. DACTWR:	DWG. NO. 60 OF 78						



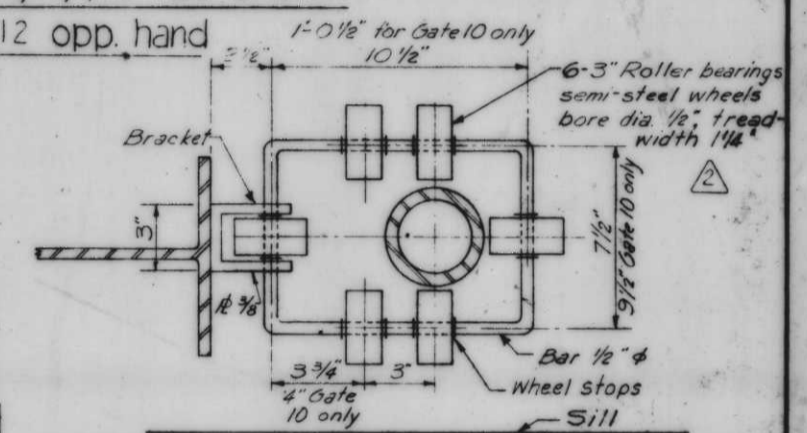
PLAN OF GATES 6 & 8



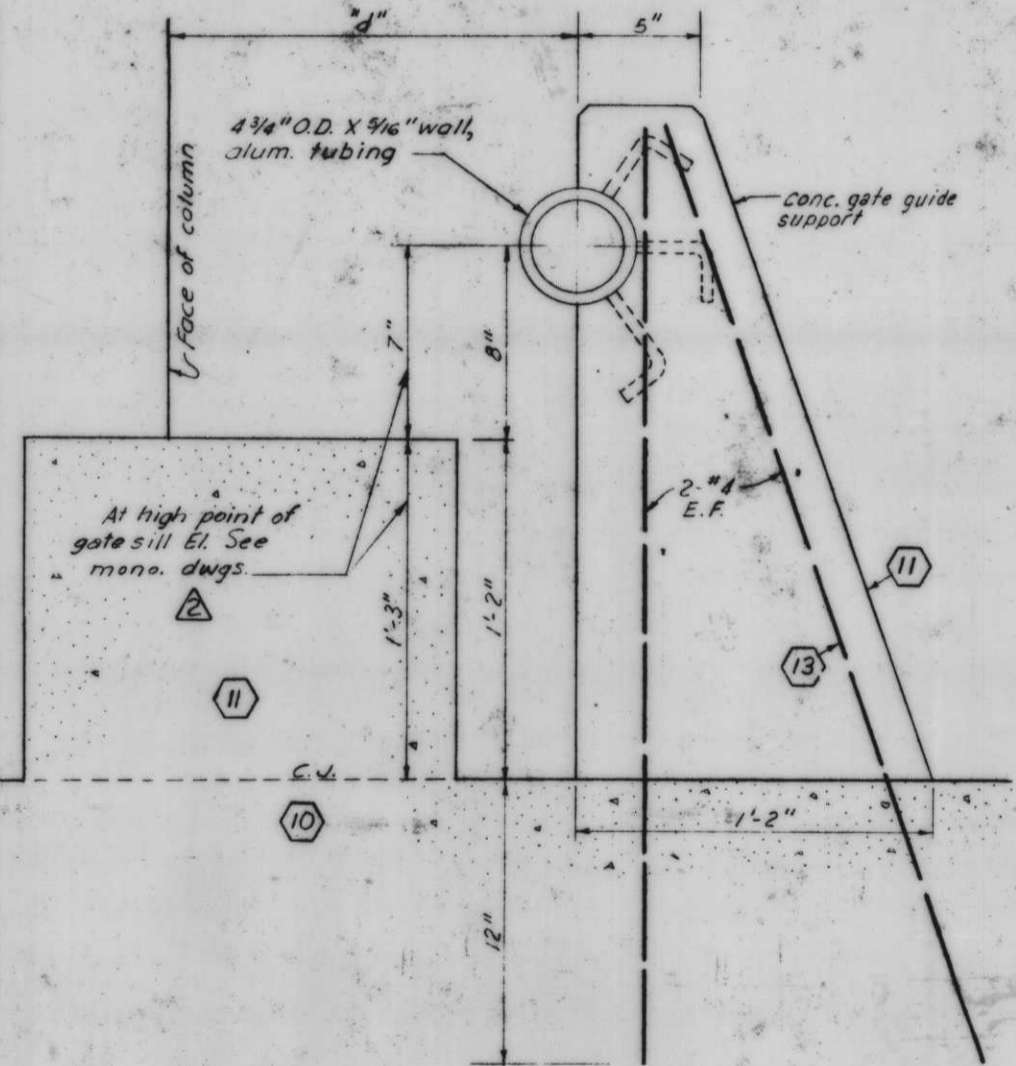
PLAN OF GATES 1, 2, 4, 14, & 15 as shown
PLAN OF GATES 5, 7, 12 opp. hand

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

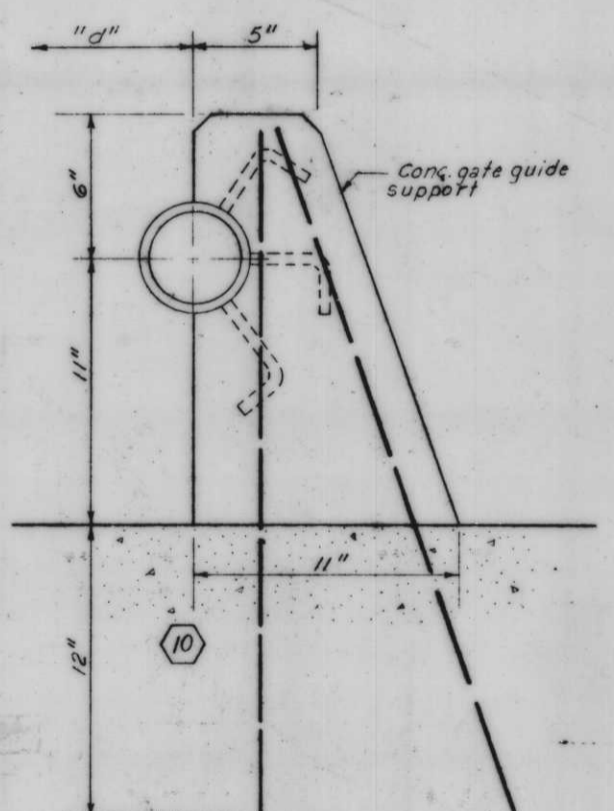
Gate	"d"	Length of alum. tube
1	23 3/4"	23'-4"
2	21 1/4"	23'-4"
4	21 1/4"	23'-4"
5	21 1/4"	23'-4"
6	21 1/4"	23'-4"
7	19 1/4"	18'-4"
8	23 1/4"	21'-4"
12	23 1/4"	23'-4"
14	23 3/4"	23'-4"
15	23 3/4"	23'-4"



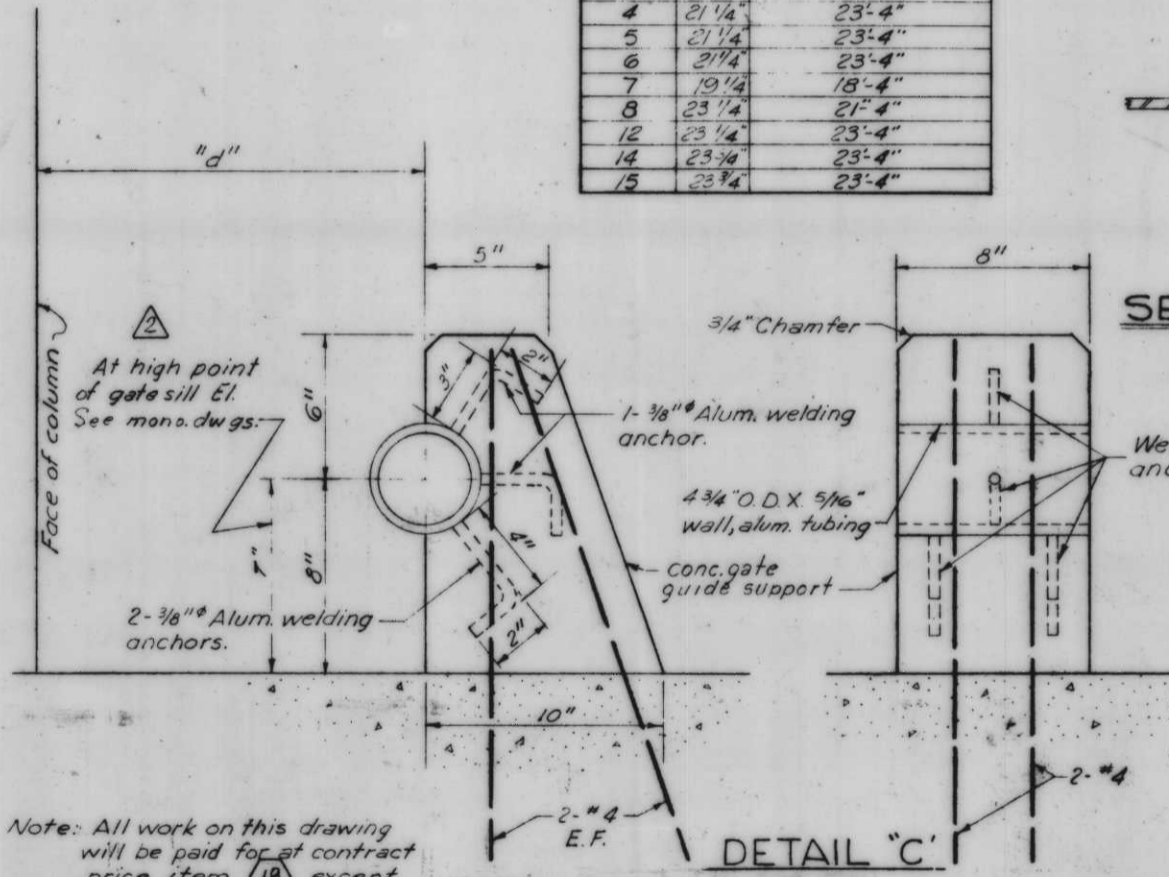
SECTION THRU GUIDE ROLLER
Scale: 3" = 1'-0"



DETAIL "A"
(Anchor Bars same as detail "C")

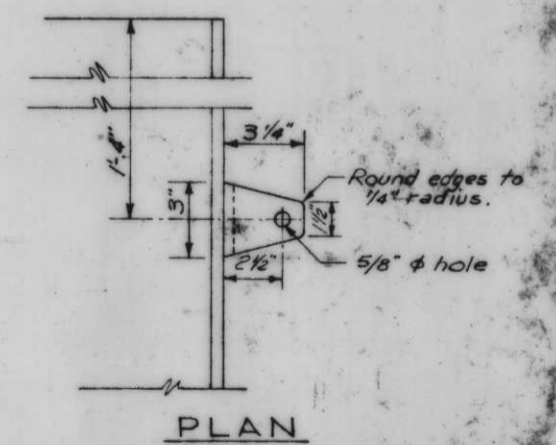


DETAIL "B"
(Anchor bars same as detail "C")

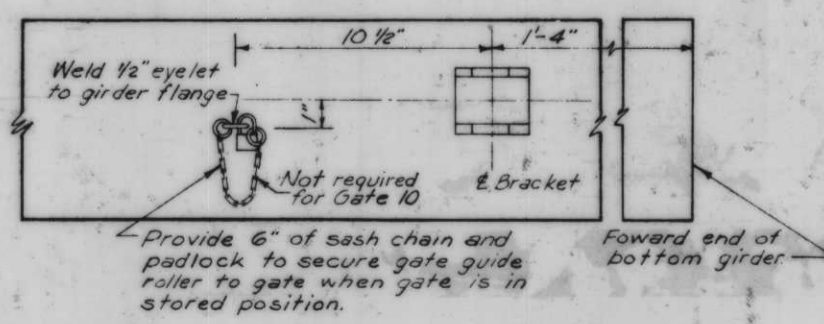


DETAIL "C"

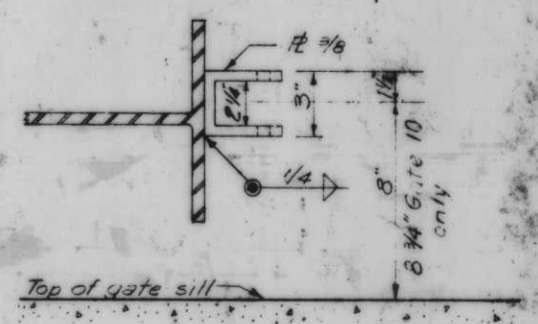
Note: All work on this drawing will be paid for at contract price item 18 except as noted. For general notes, see Dwg. No. 4



PLAN

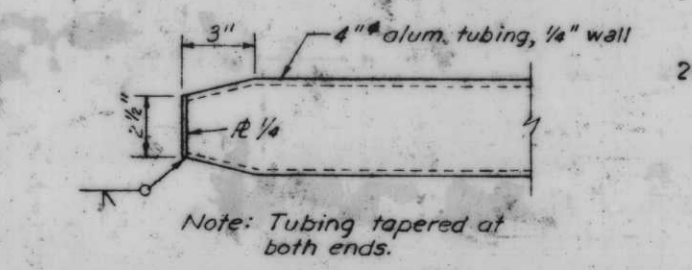


FLOOD SIDE ELEVATION

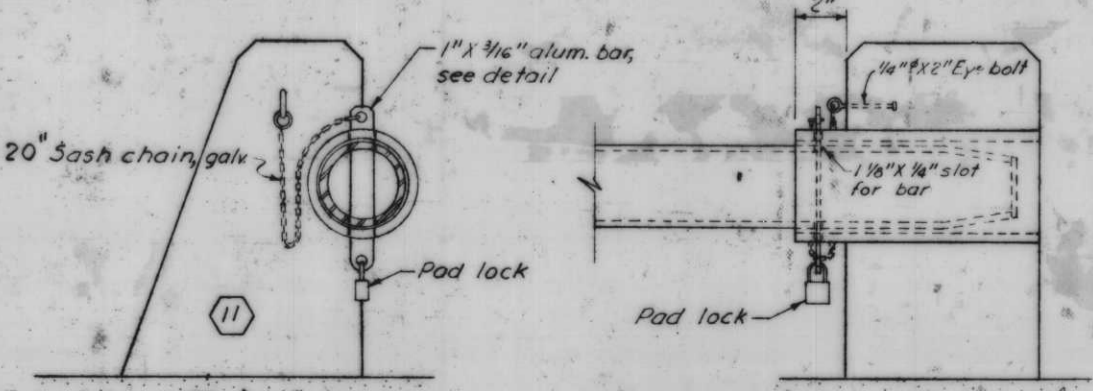


END ELEVATION

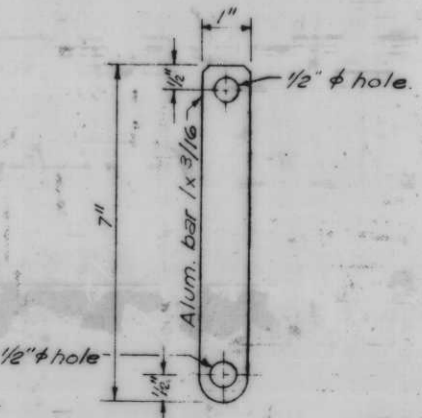
GUIDE ROLLER BRACKET
Scale: 3" = 1'-0"



DETAIL OF END TAPER OF TUBING



SECTION A-A SHOWING CHAIN & LOCK
(Gate in stored position)
Scale: 3" = 1'-0"



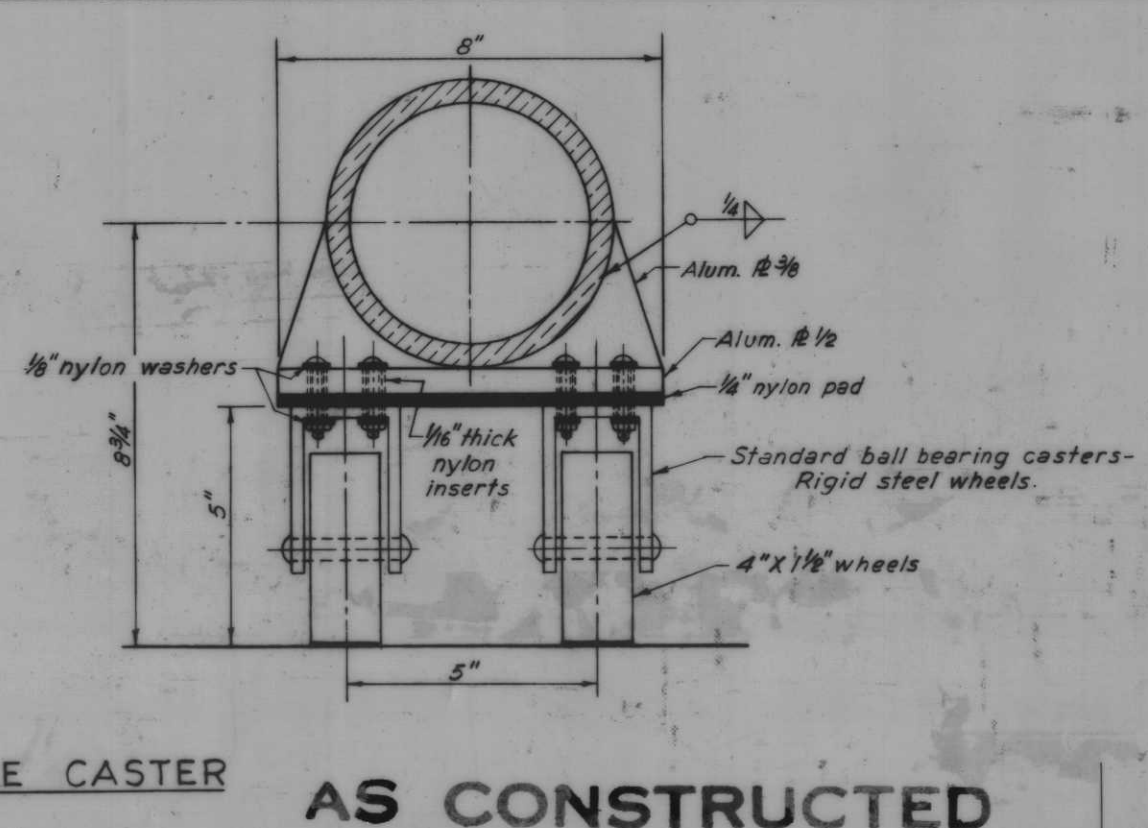
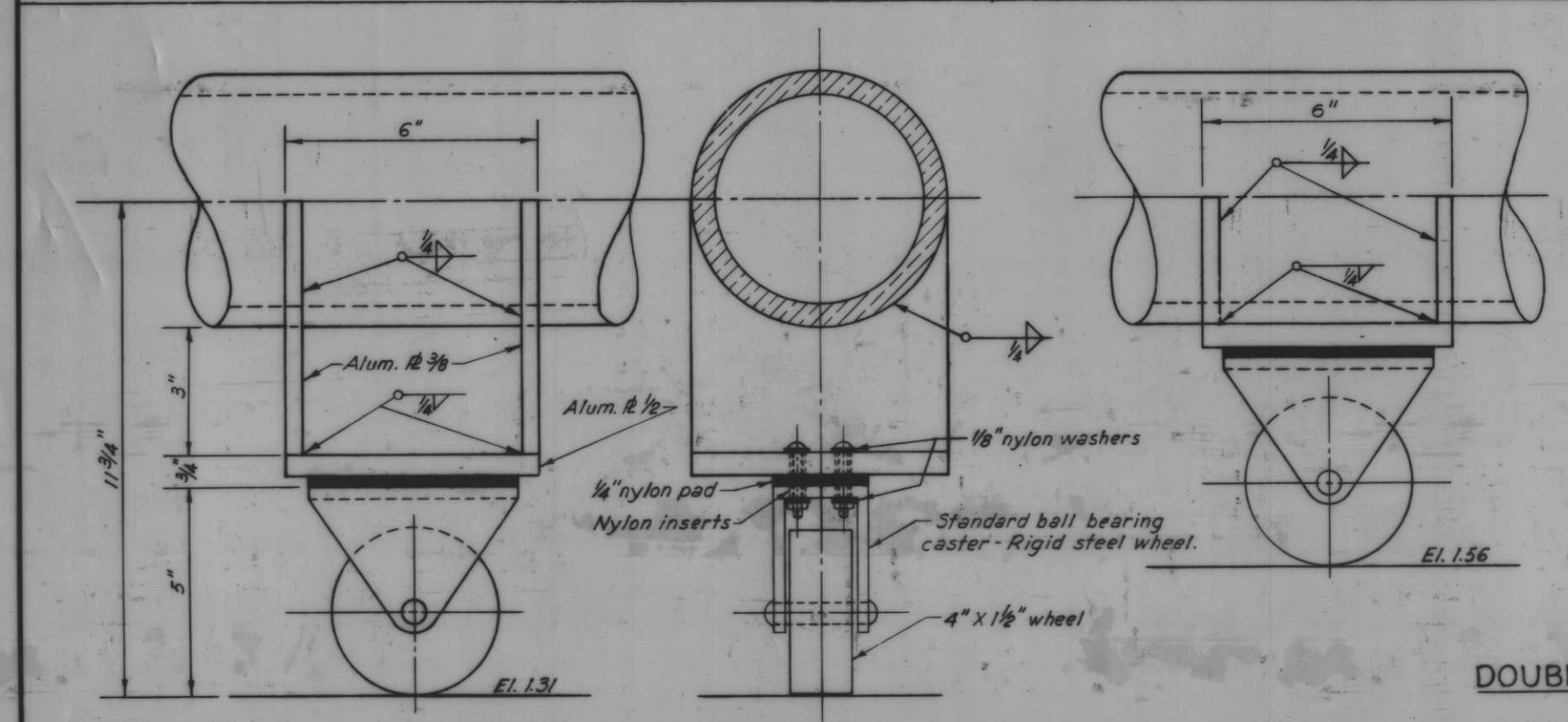
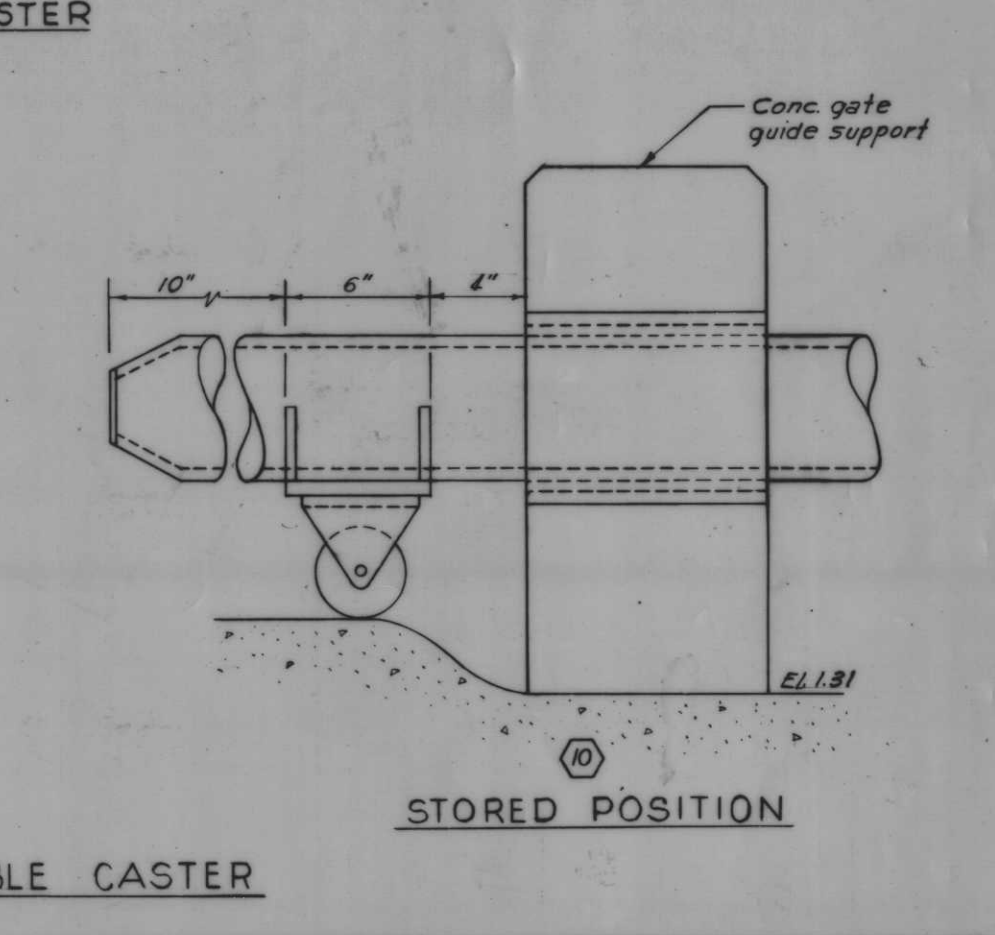
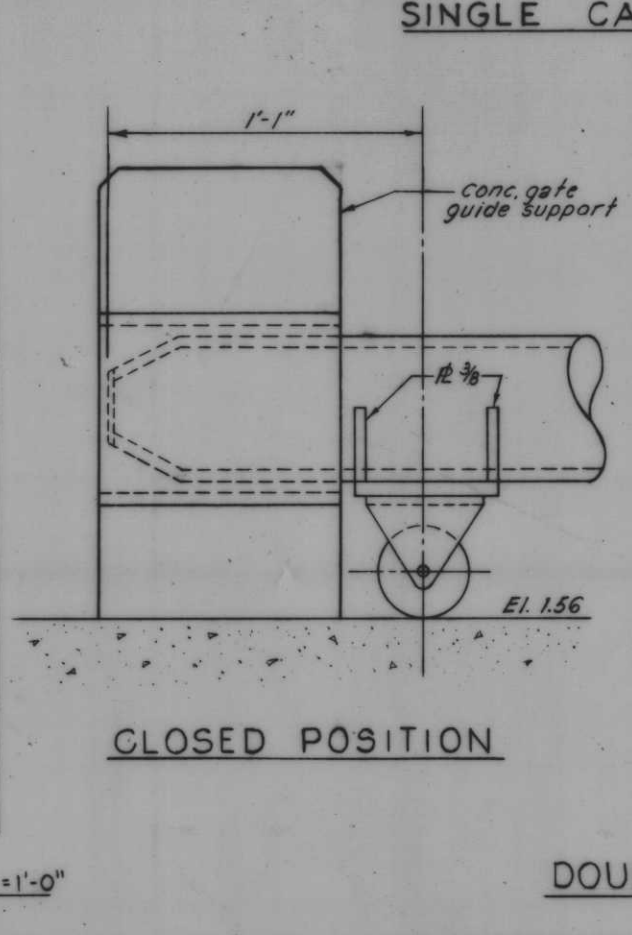
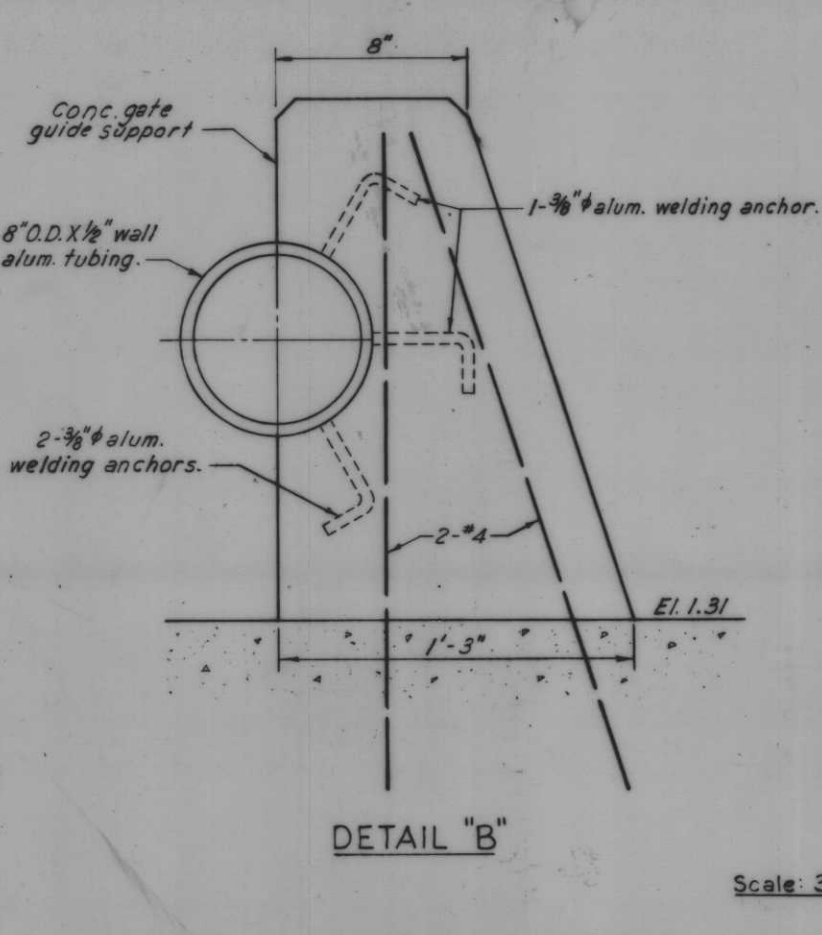
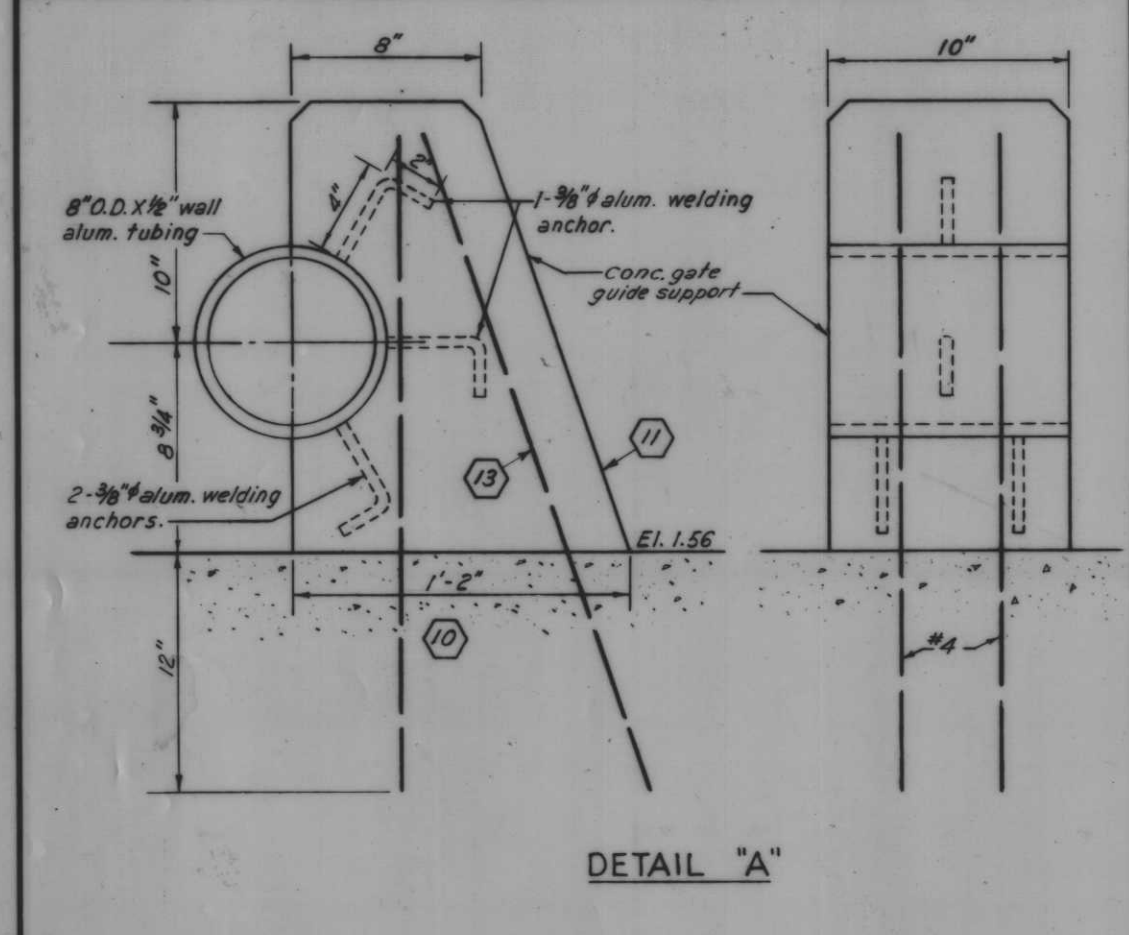
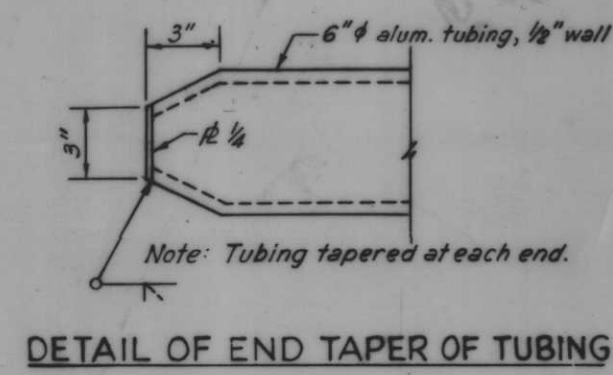
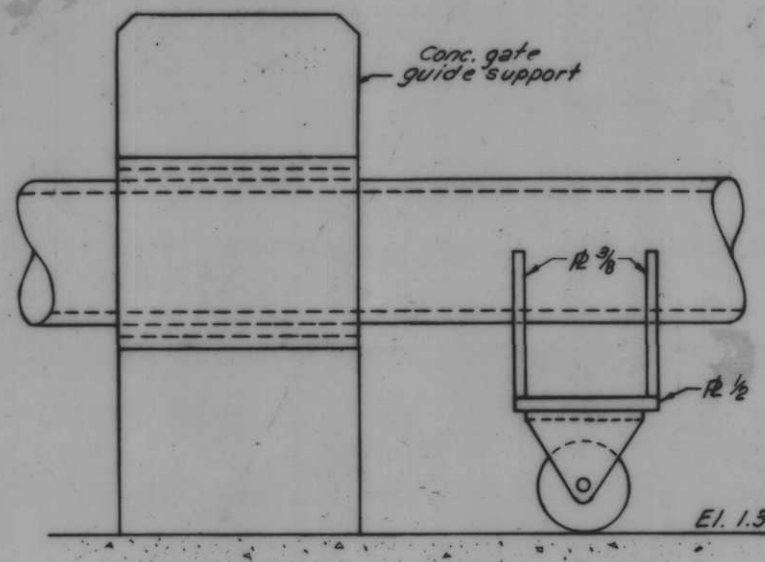
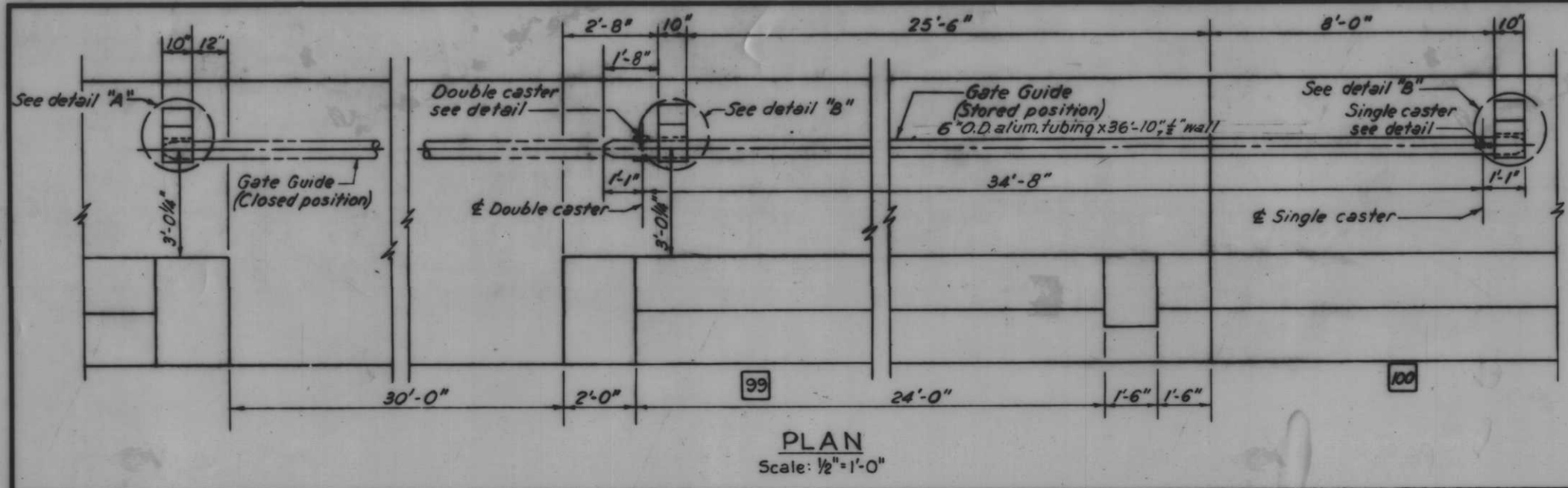
ALUMINUM BAR

GATE GUIDE
GATES 1, 2, 4, 5, 6, 7, 8, 12, 14 AND 15

8-4-69 Revised dimension details A & C
12-2-68 Changed treadwidth from 1 1/4" to 1 1/2"

REVISION	DATE	DESCRIPTION
DESIGNED	D.A.M.	C.E.M.
CHECKED	J.S.H.	

H-4-24263
SCALE SHOWN SPEC NO DACW28 DWG NO 61 OF 78
IHNC WEST LEVEE FLA AVE TO IHNC LOCK - FLOODWALL



Note: All work on this drawing will be paid for at contract price item except as noted.
For general notes, see Dwg. No. 4
For guide roller and guide roller bracket, see Dwg. 61

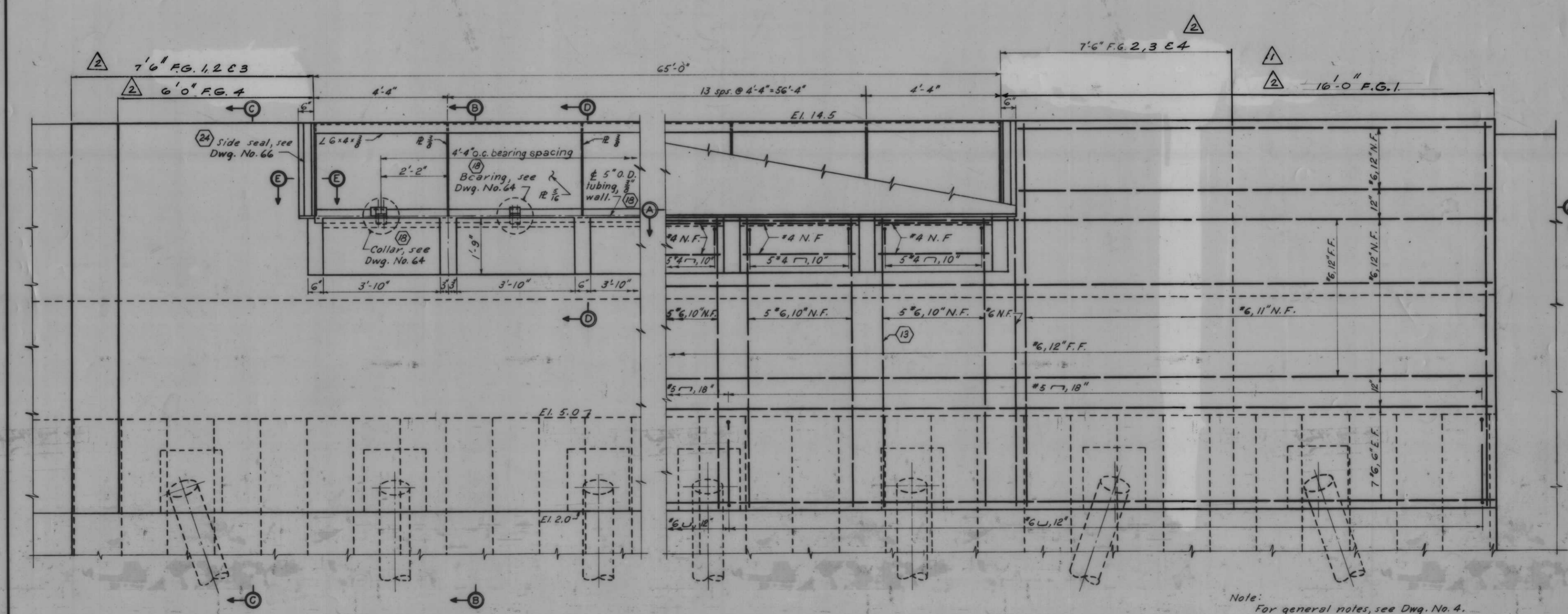
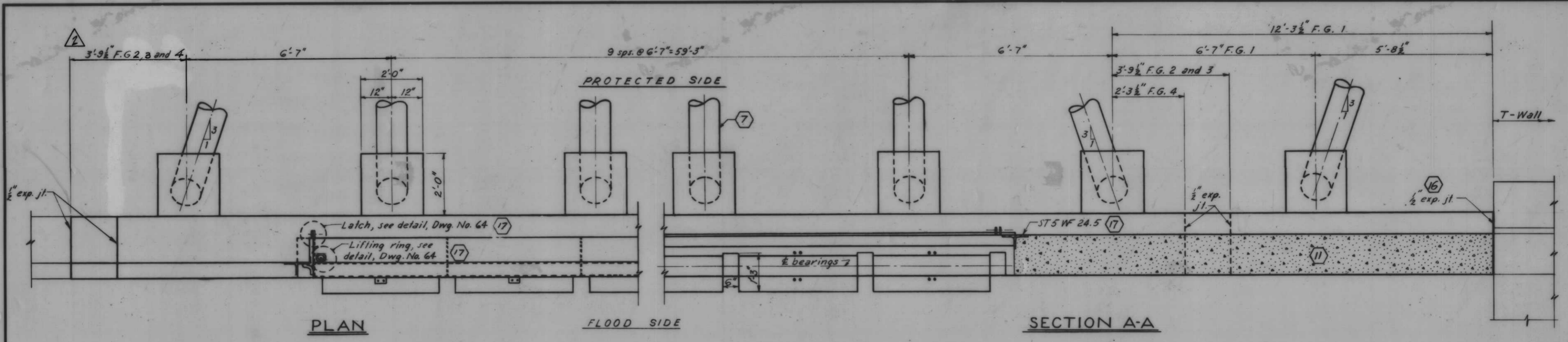
DOUBLE CASTER AS CONSTRUCTED

SINGLE CASTER

Scale: 6"=1'-0"

GATE GUIDE - GATE 10

REVISION	DATE	DESCRIPTION	BY
DESIGNED	DRAWN	CHECKED	CODE IDENT. NO. SIZE FILE NO.
D.A.M.	E.L.M.	J.S.H.	H-4-24263
DATE:	SCALE: SHOWN	SPEC. NO. DAWES-	DWG. NO. 62 OF 70



Note:
For general notes, see Dwg. No. 4.

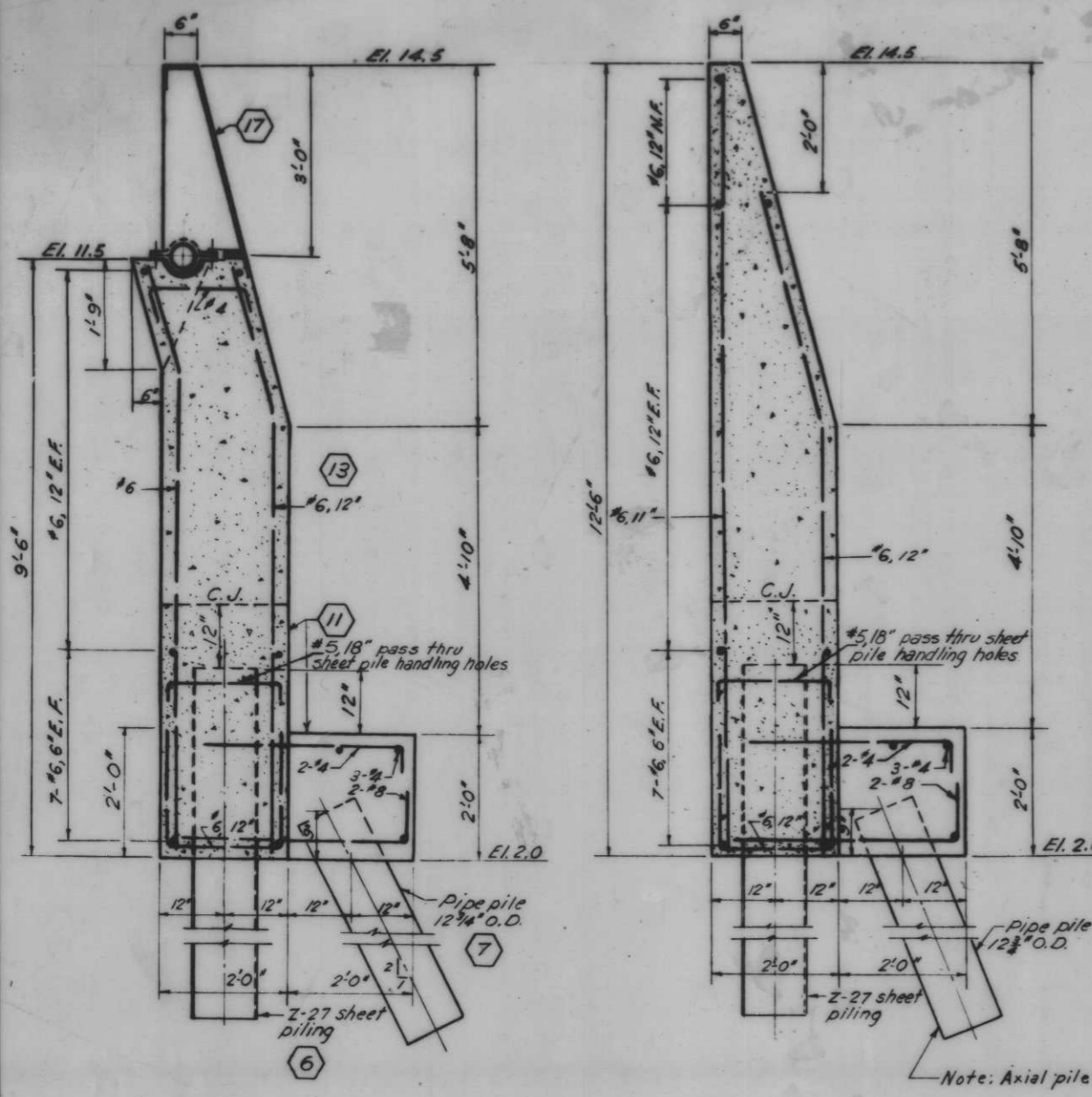
FLOOD SIDE ELEVATION
Scale 3/4"=1'-0"

AS CONSTRUCTED

MONOLITHS 74-77 -HINGED FLAPS 1,2,3 AND 4

7 11 13 16 17 18 24

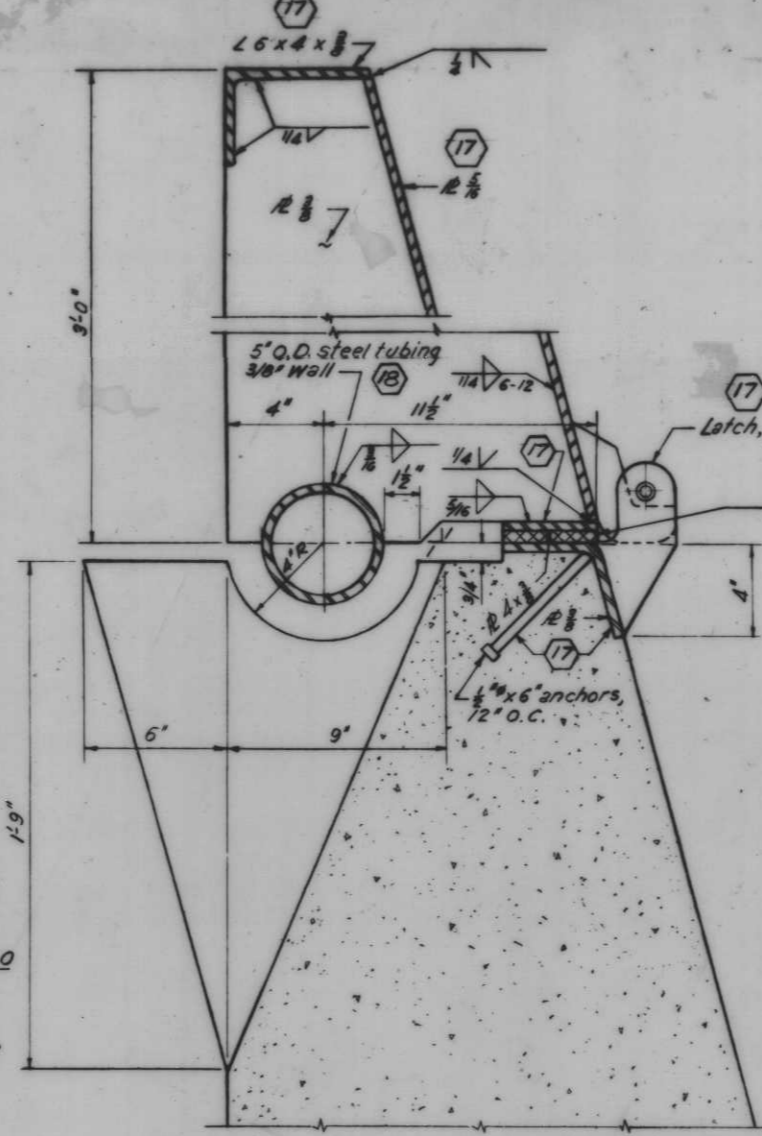
2	12-2-68	AMENDED FLOOD GATES					
1	10-1-68	DIMENSION CORREC. TO 15'-8 1/2"					
DESIGNED:	D.M.B.	DRAWN:	D.J.H.	CHECKED:	H.U.	DESCRIPTION:	H-4-24263
DATE:		SCALE:	SHOWN	SPEC. NO.:	DACW28-	DWG. NO.:	63 OF 78



SECTION B-B

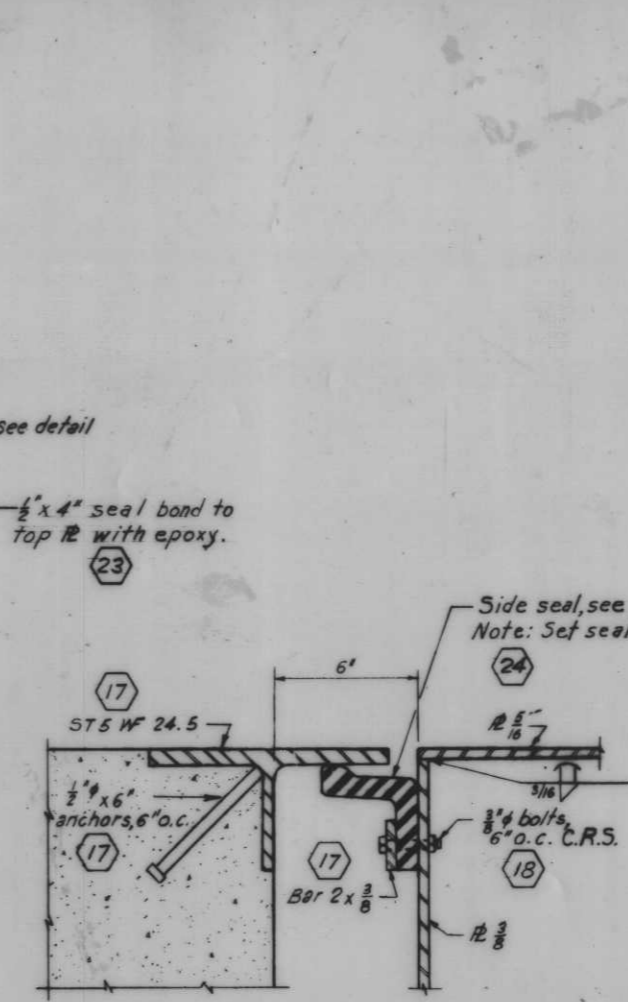
SECTION C-C

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



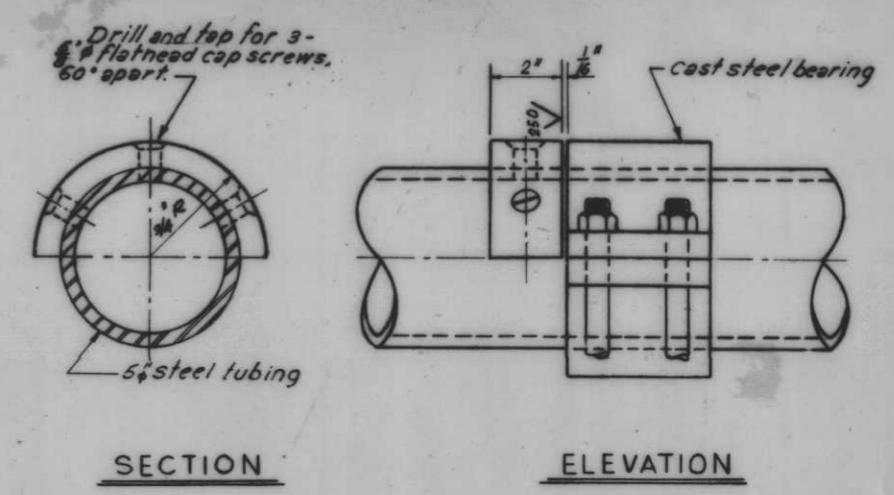
SECTION D-D

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



SECTION E-E

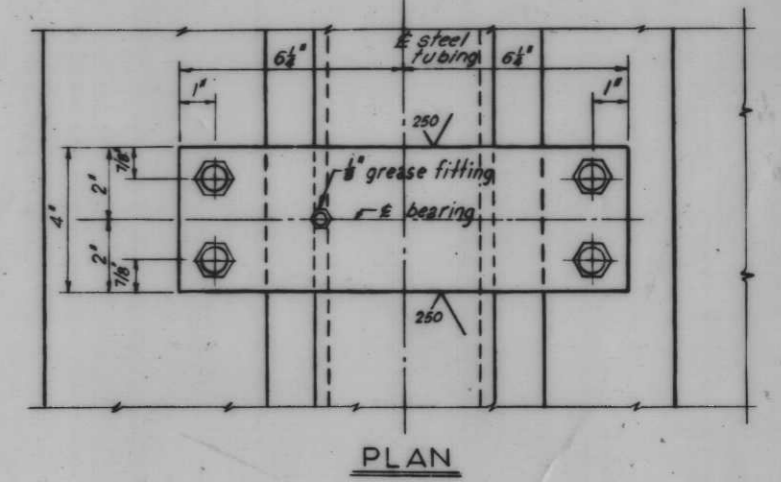
Scale: 3/4" = 1'-0"



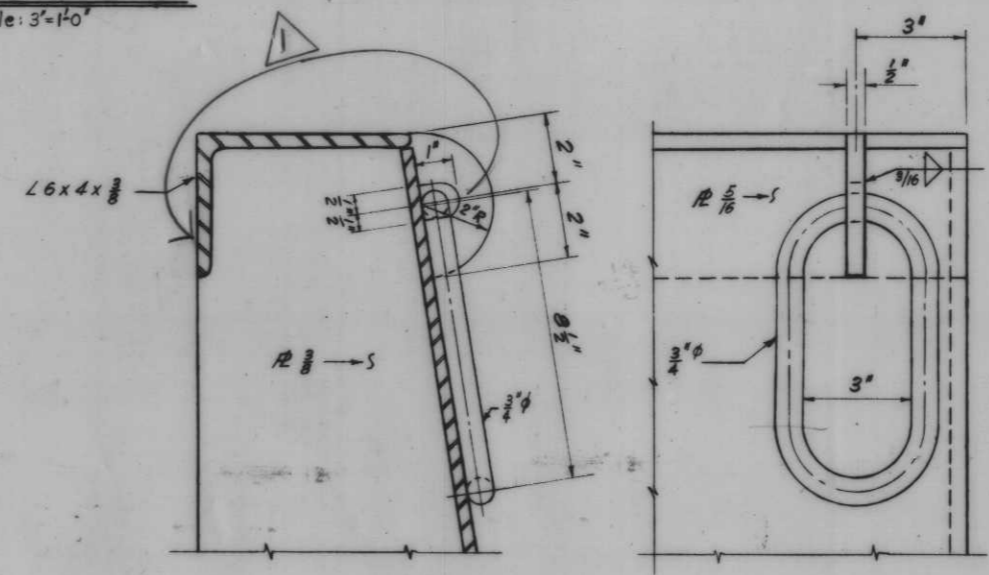
SECTION

ELEVATION

COLLAR
Scale: 3/8" = 1"



PLAN



SECTION

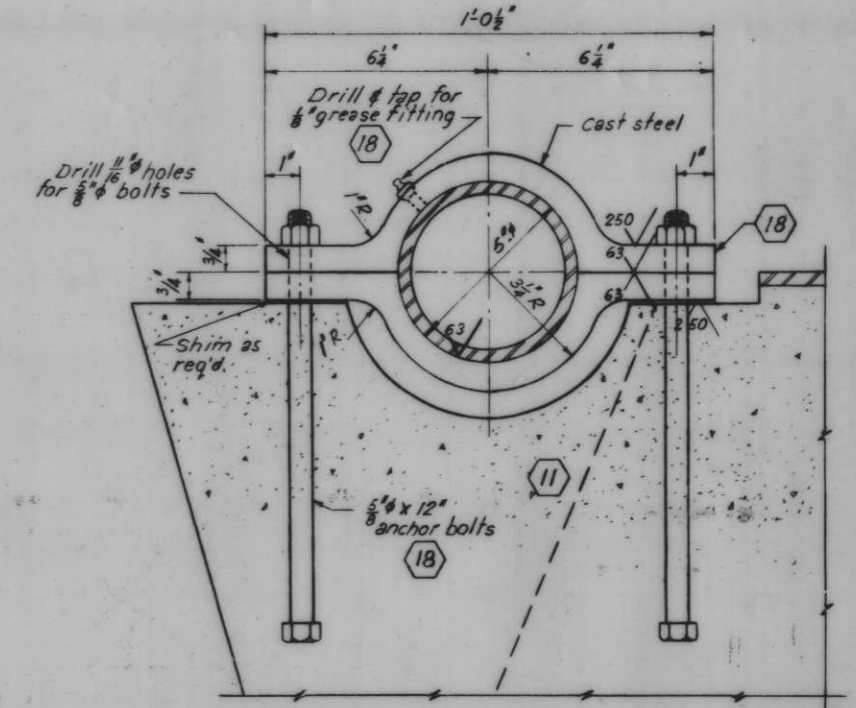
ELEVATION

LIFTING RING

Scale: 3/8" = 1"

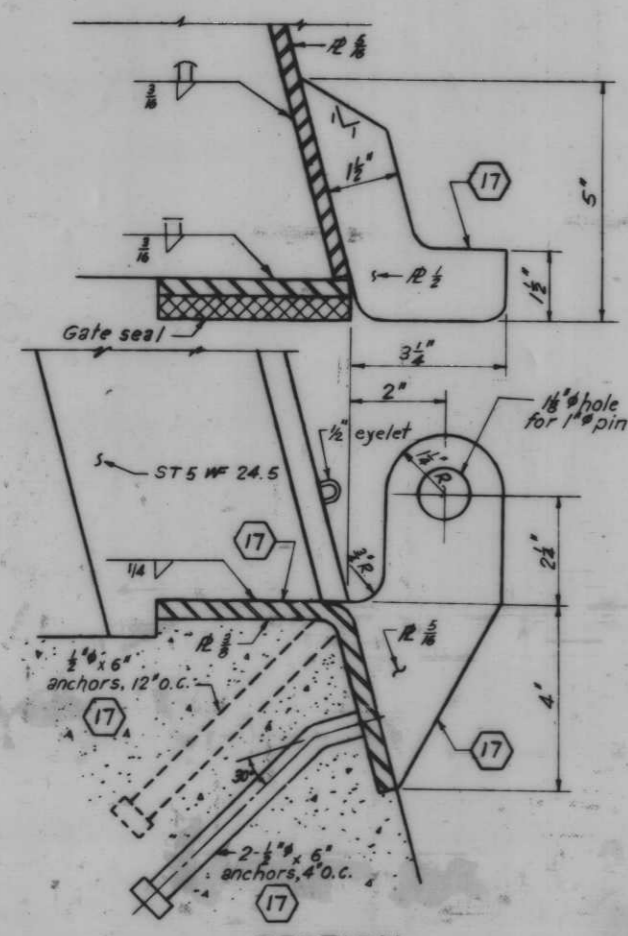
REVERSE LIFTING RING TO FRONT OF FLAPGATE 5 22.78

Notes:
Pin shall be DUB-PIN as manufactured by WAL DICK AERO SPACE DEVICES INC. P.O. BOX 398 HUNTINGTON STA., L.I., N.Y., or approved equal.
Cast steel bearings shall conform to the requirements of the specs.
Bearings shall conform to ASA standards for class 1 fit.

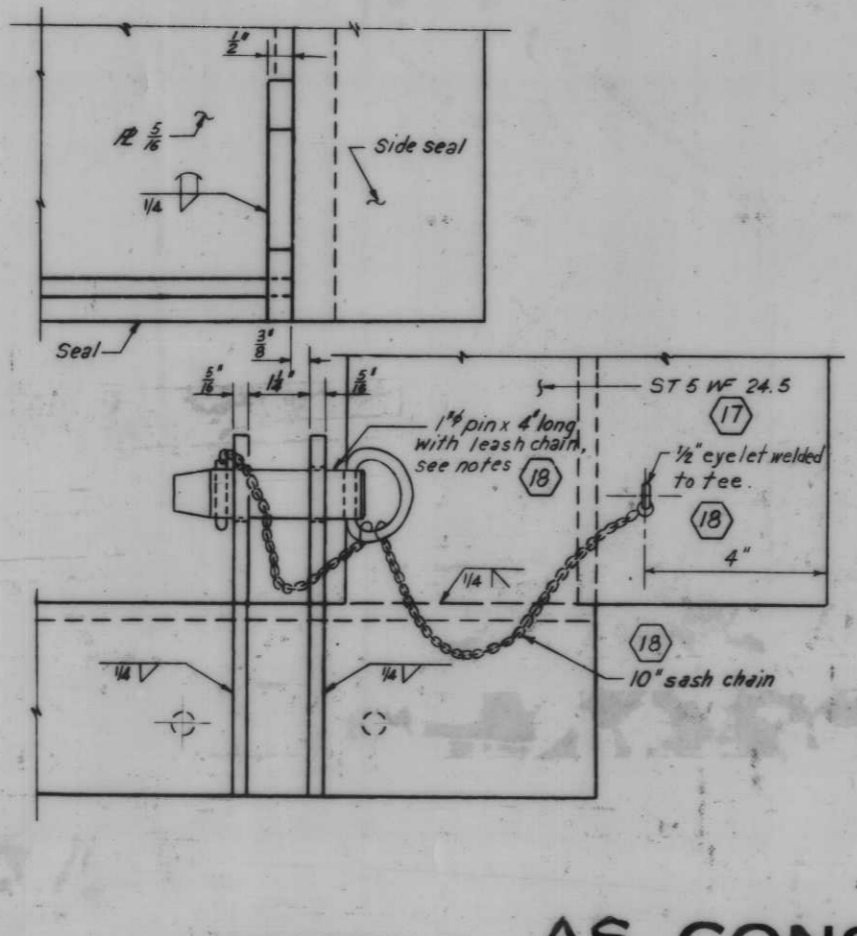


ELEVATION

BEARING
Scale: 3/8" = 1"



SECTION



ELEVATION

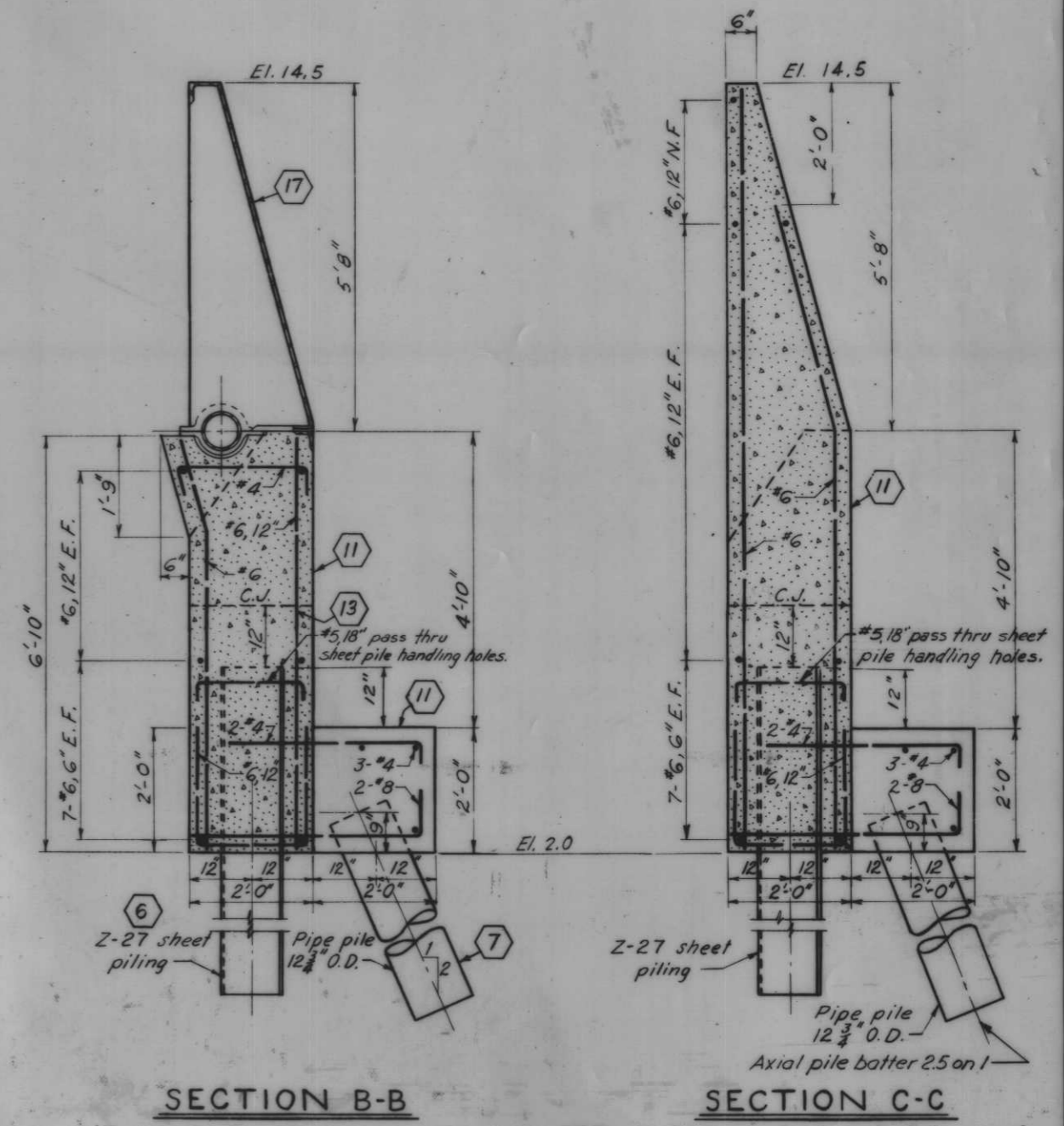
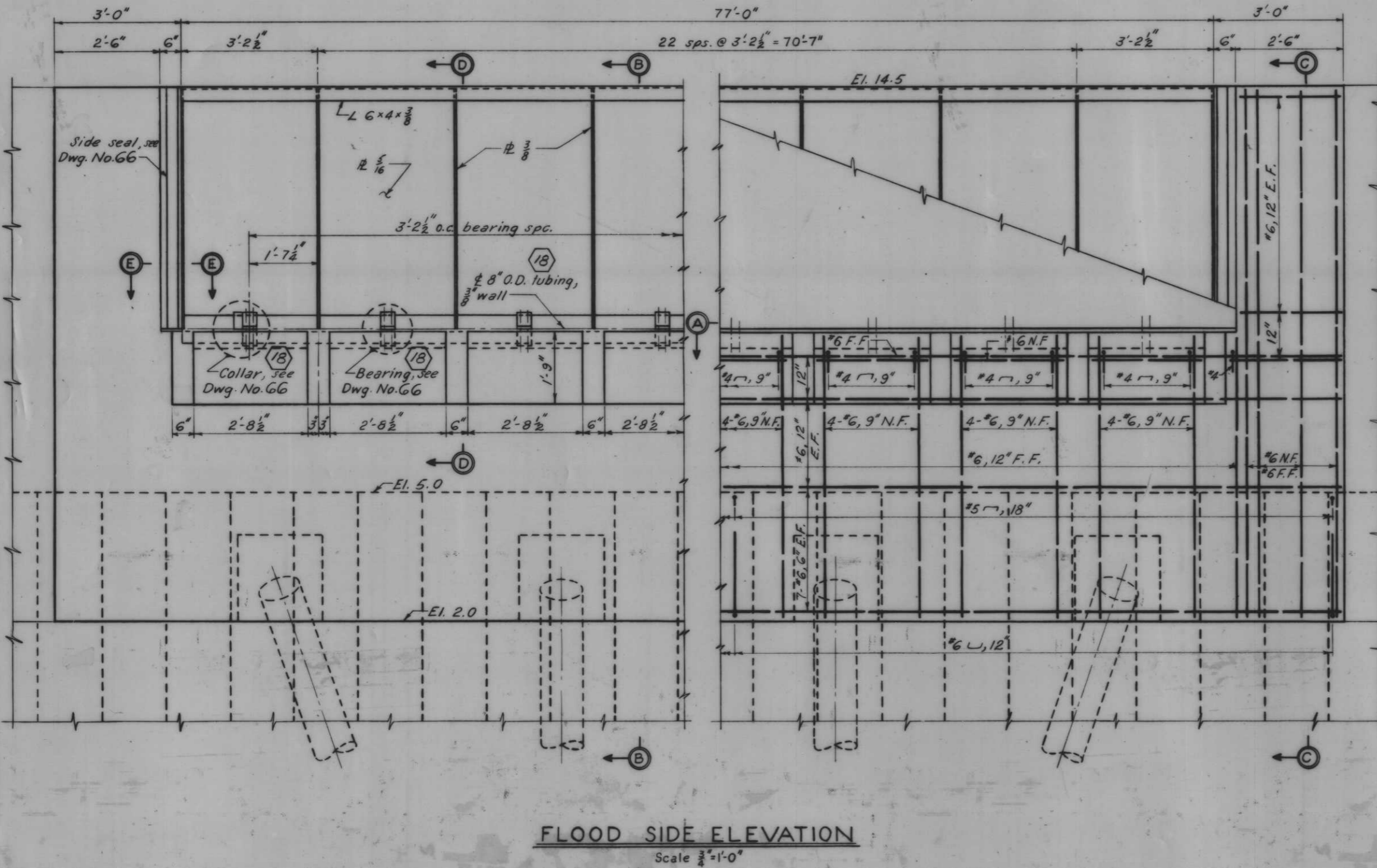
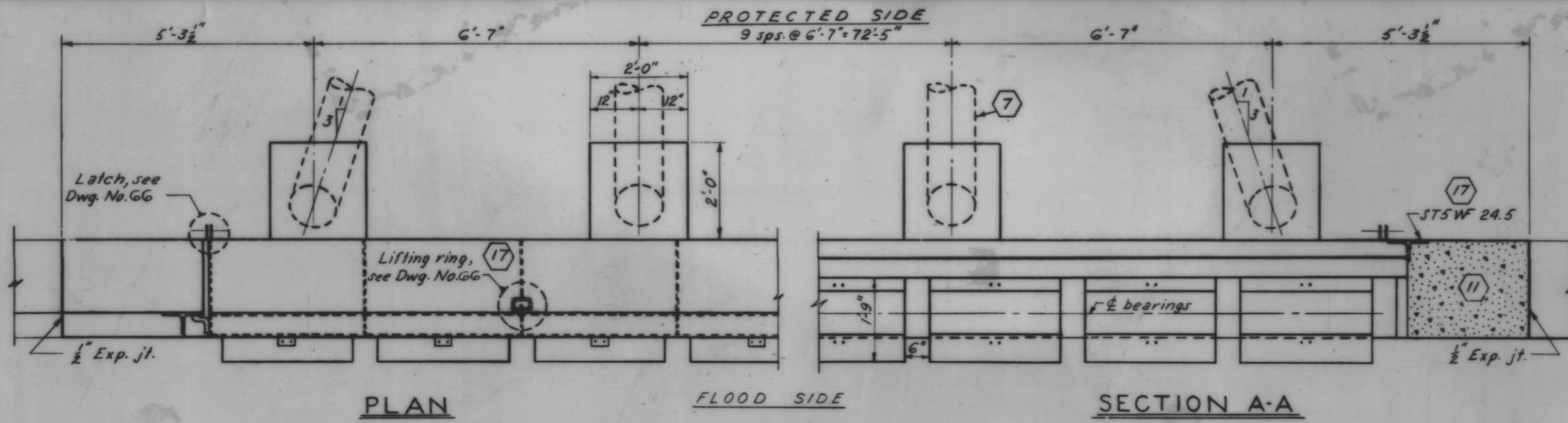
LATCH
Scale: 6" = 1'-0"

AS CONSTRUCTED

MONOLITHS 74-77-HINGED FLAPS 1,2,3 AND 4

6 7 11 13 17 18 23 24

REVISION	DATE	DESCRIPTION	BY
D.M.B.	E.J.C.	H.U.	H-4-24263

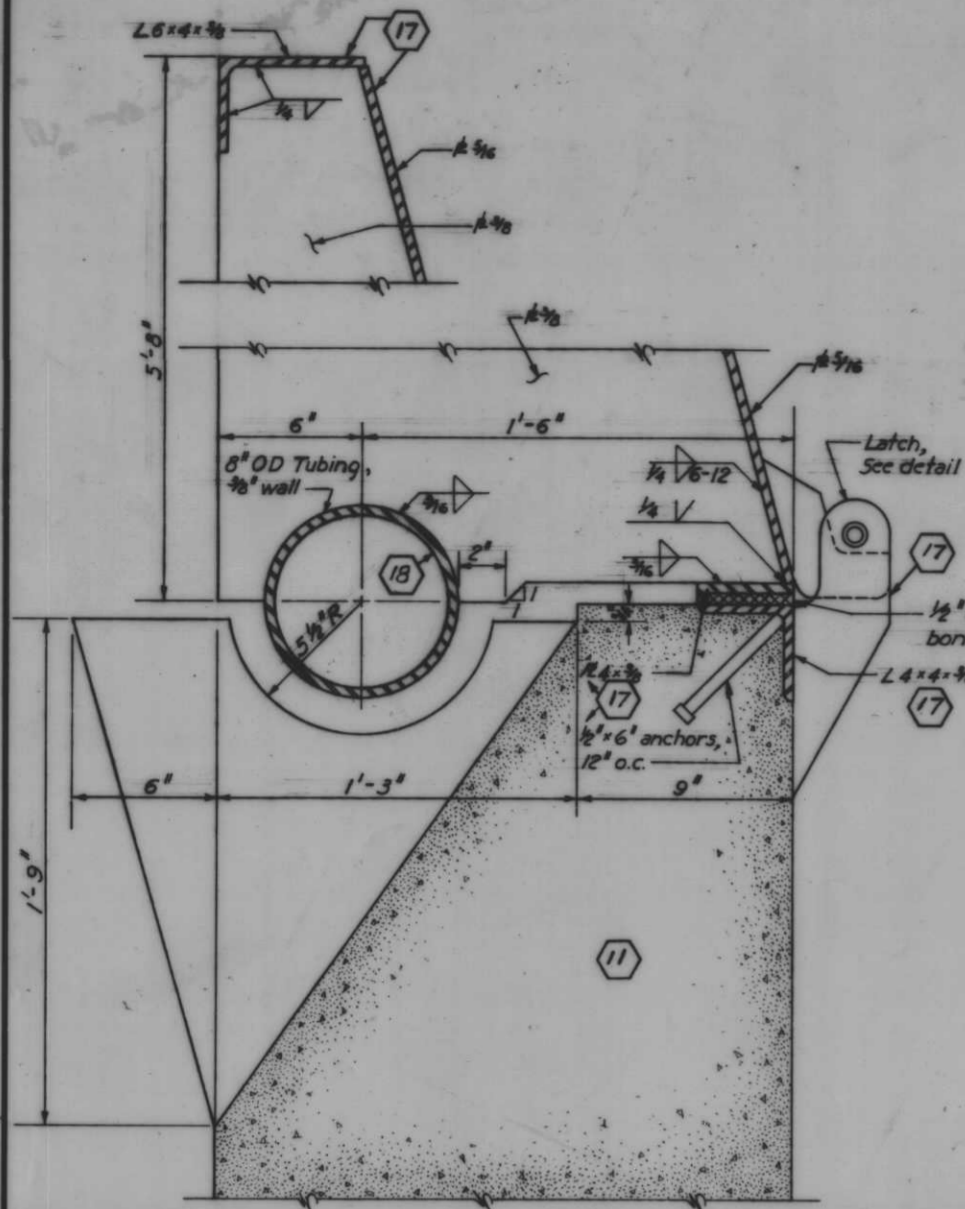


Note:
For general notes, see Dwg. No. 4.

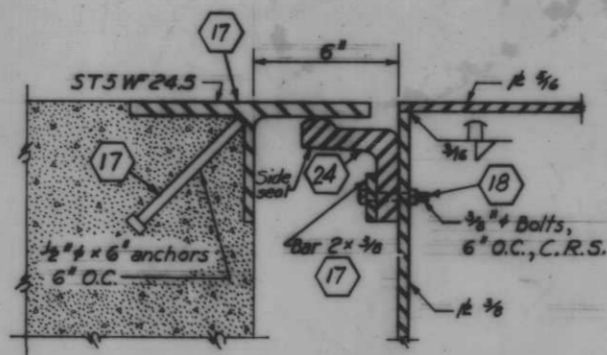
AS CONSTRUCTED

MONOLITH 78 - GATE 9

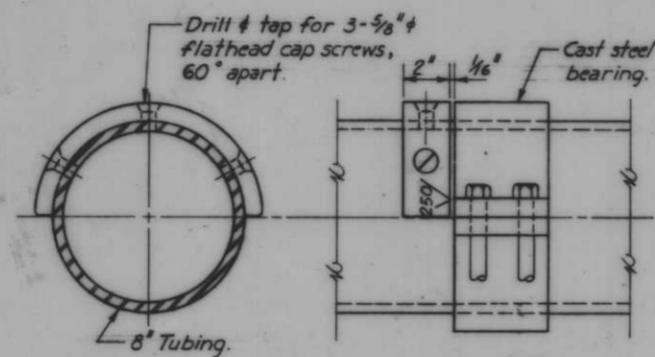
REVISION	DATE	DESCRIPTION	BY
DESIGNED:	D.M.B.	DRAWN:	D.J.H.
CHECKED:	H.U.	CODE IDENT. NO.	SIZE
FILE NO.	H-4-24263	DATE:	SCALE SHOWN
SPEC. NO.	DACWSS	DWG. NO.	65 OF 78



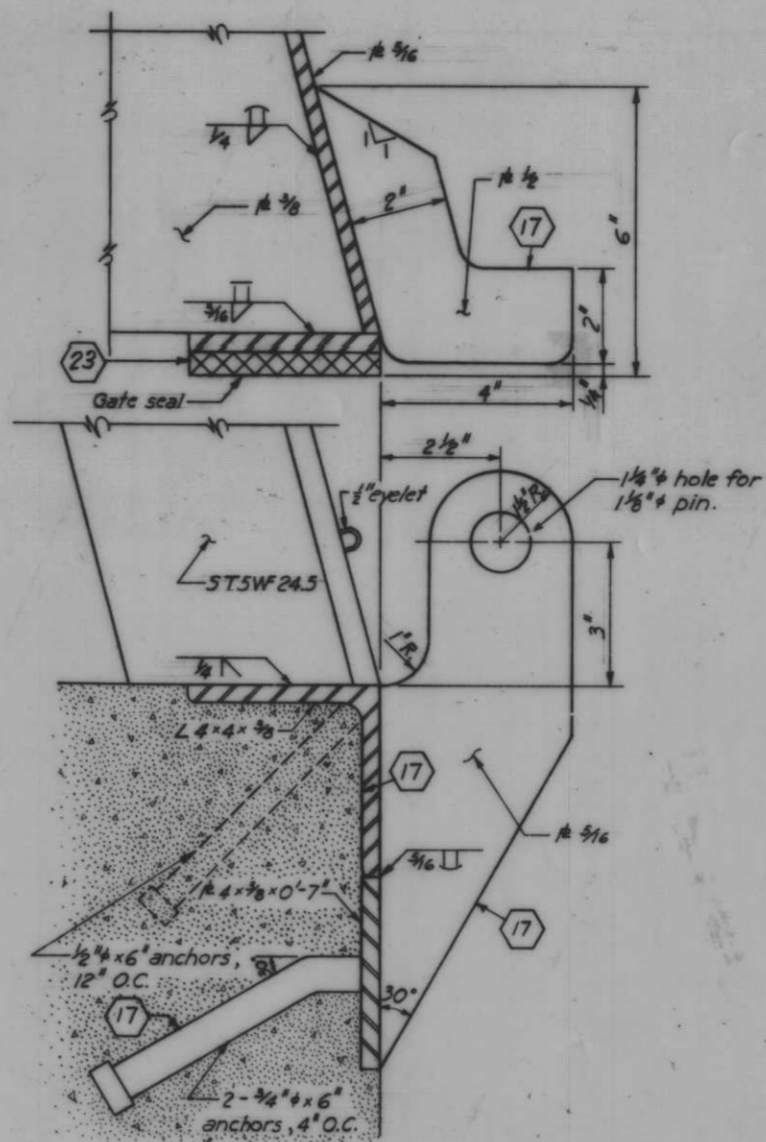
SECTION D-D
Scale: 3" = 1'-0"



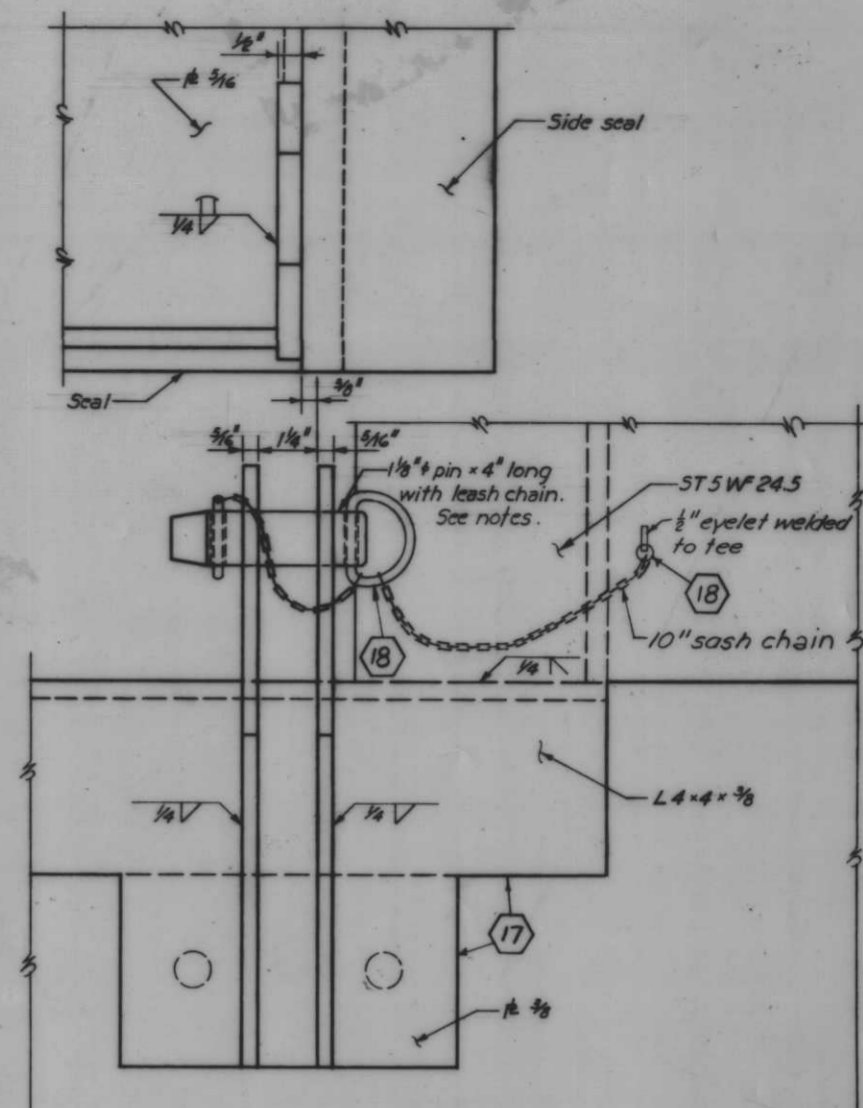
SECTION E-E
Scale: 3" = 1'-0"



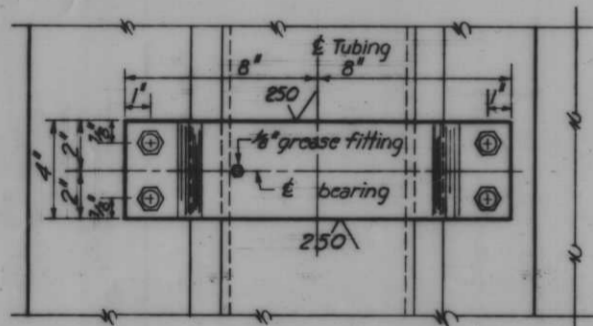
COLLAR 18
Scale: 3" = 1'-0"



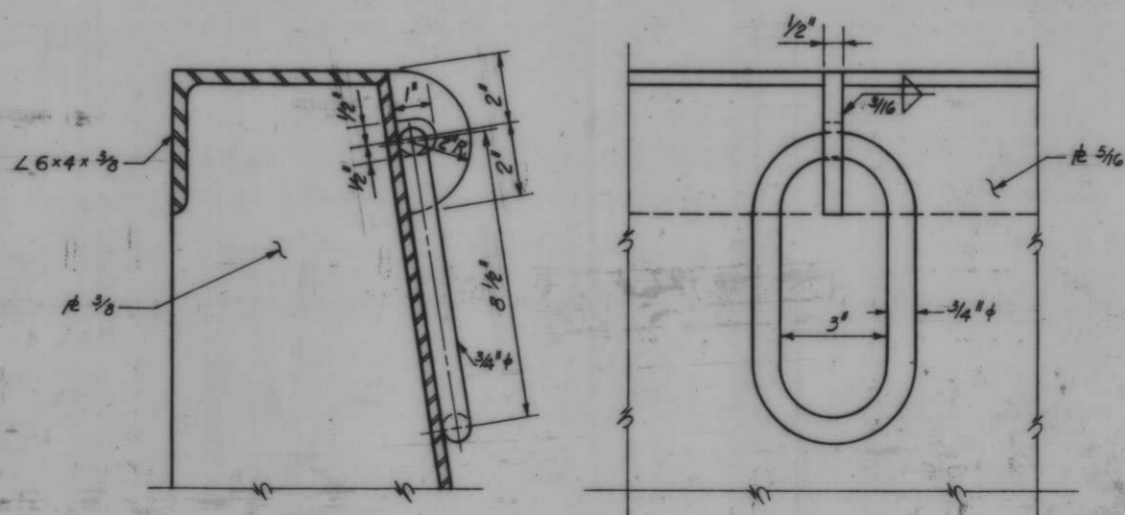
LATCH
Scale: 6" = 1'-0"



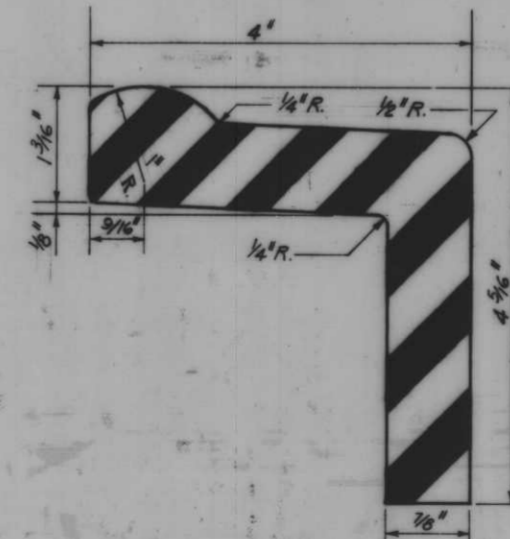
ELEVATION



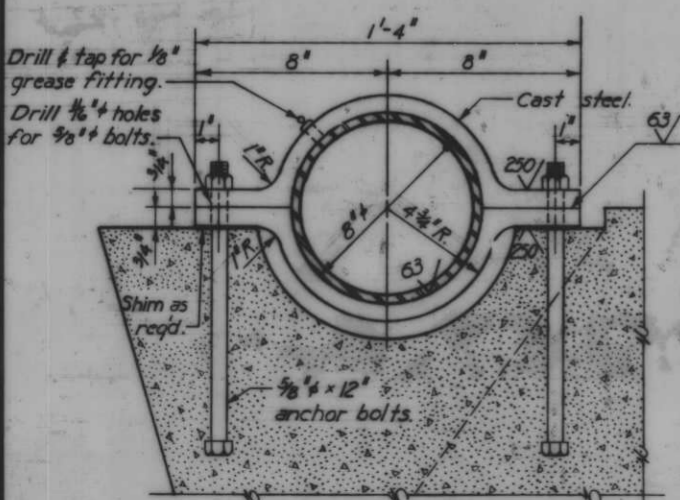
PLAN



LIFTING RING 17
Scale: 3/8" = 1"



SIDE SEAL 24
Full Scale



ELEVATION

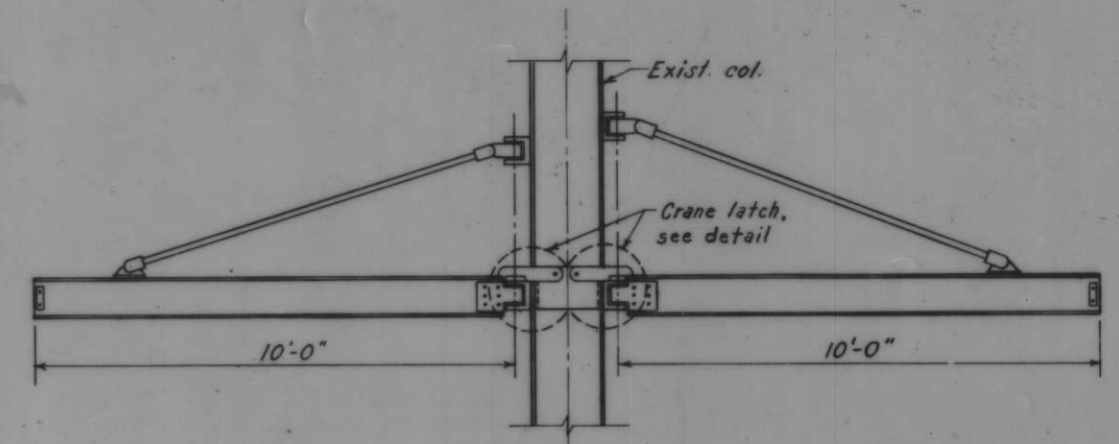
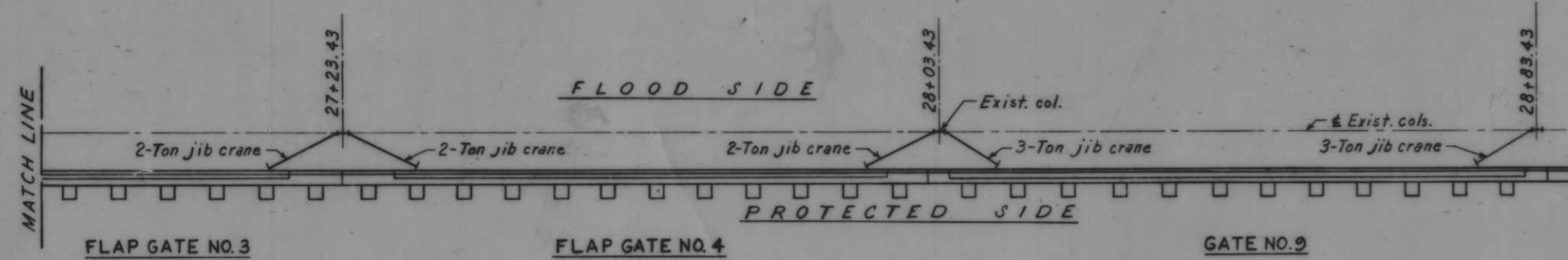
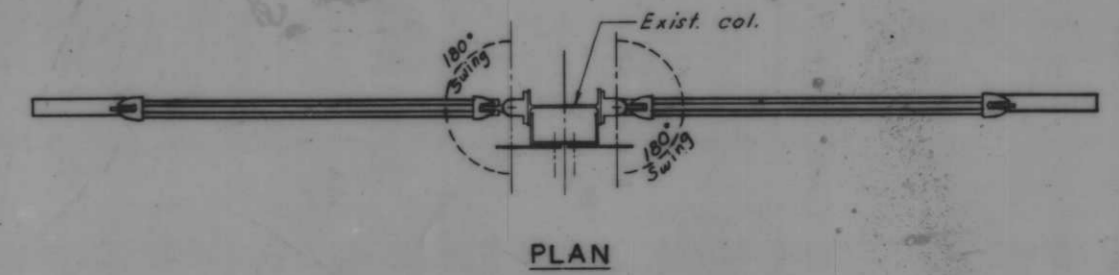
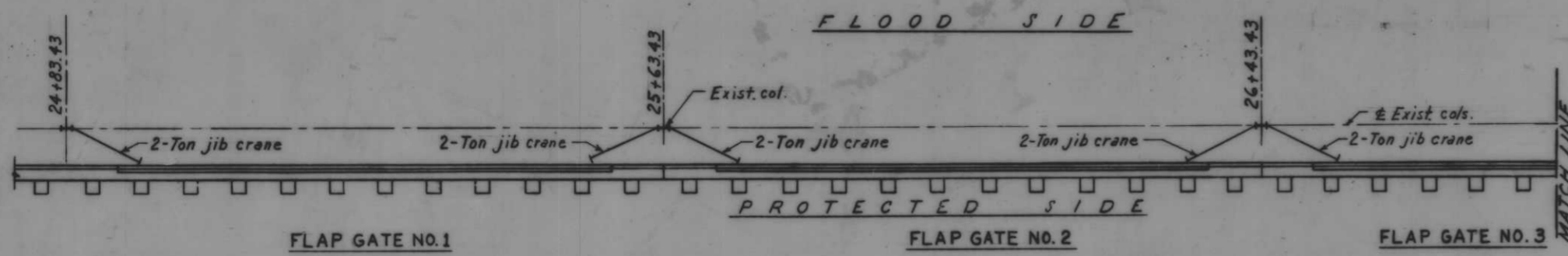
BEARING 18
Scale: 3" = 1'-0"

Notes:
Pin shall be DUO-PIN as manufactured by WAL-DICK AERO SPACE DEVICES, Inc. P.O. Box 338, Huntington Sta., L.I., N.Y., or approved equal.
Cast steel bearings shall conform to the requirements of the specs.
Bearings shall conform to ASA standards for a class I fit.

AS CONSTRUCTED

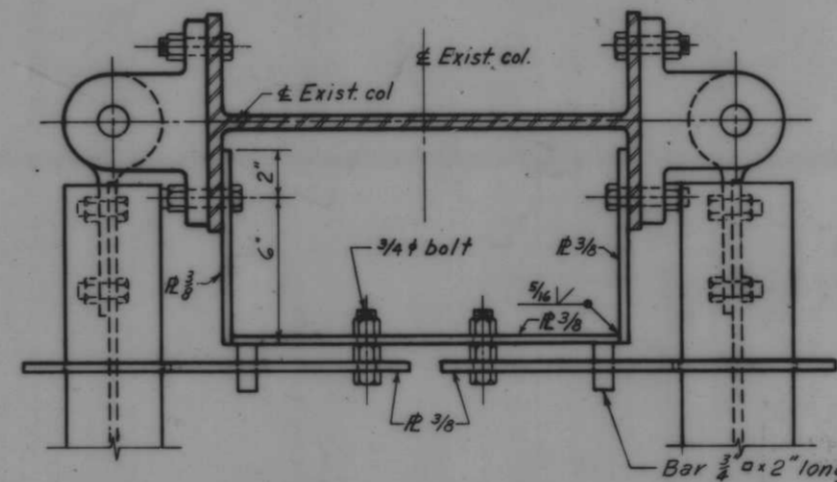
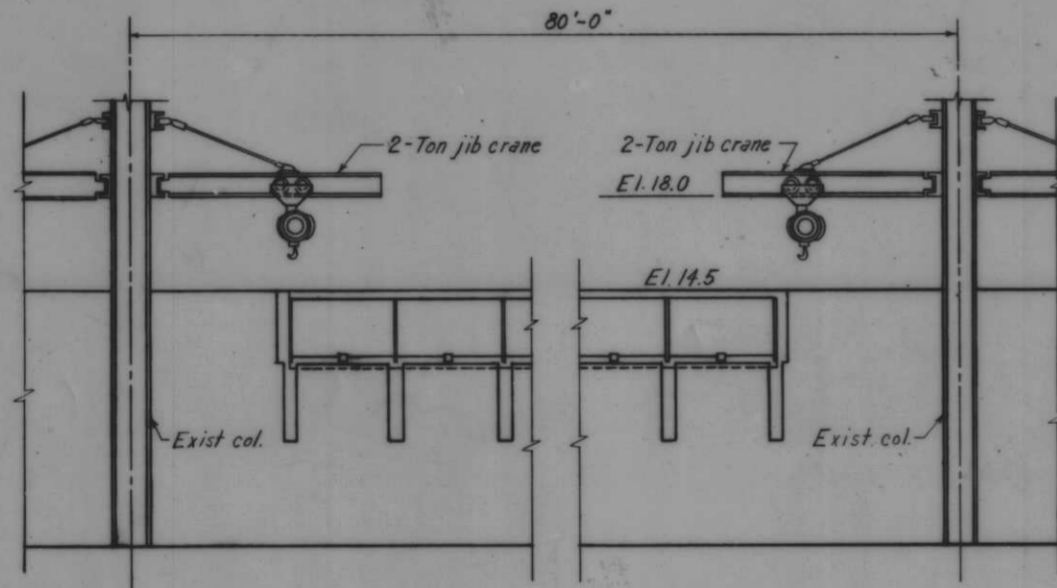
11 17 18 23 24
MONOLITH 78 - GATE 9

REVISION	DATE	DESCRIPTION	BY
DESIGNED:	DRAWN:	CHECKED:	CODE IDENT. NO. SIZE FILE NO.
D.M.B.	J.J.P.	H.U.	H-4-24263
DATE:	SCALE: SHOWN	SPEC. NO. DACWB:	DWG. NO. 66 OF 78



PLAN-JIB CRANE LOCATIONS
Scale: 1"=1'-0"

CRANE ELEVATION
Scale: 1/2"=1'-0"

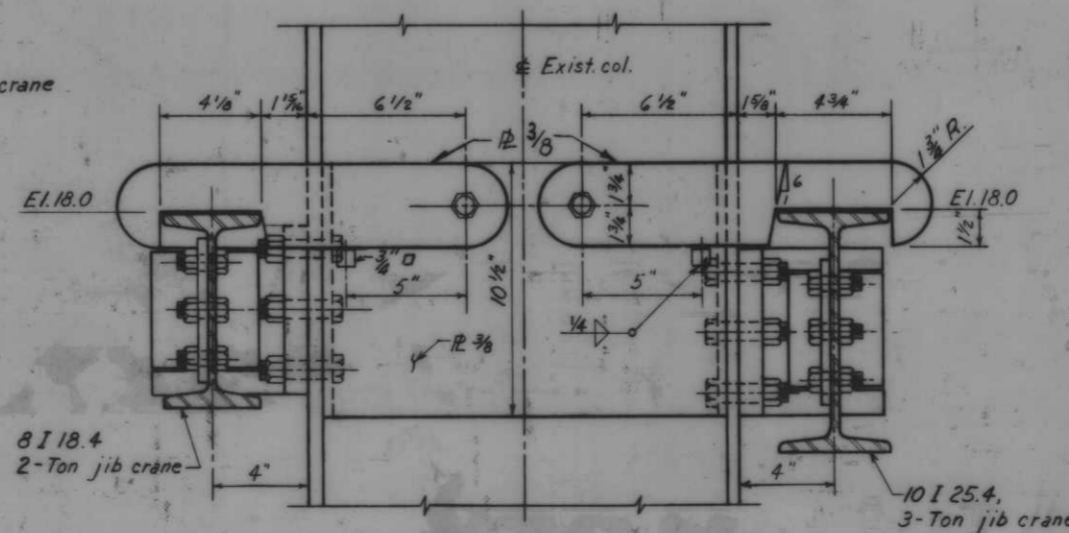
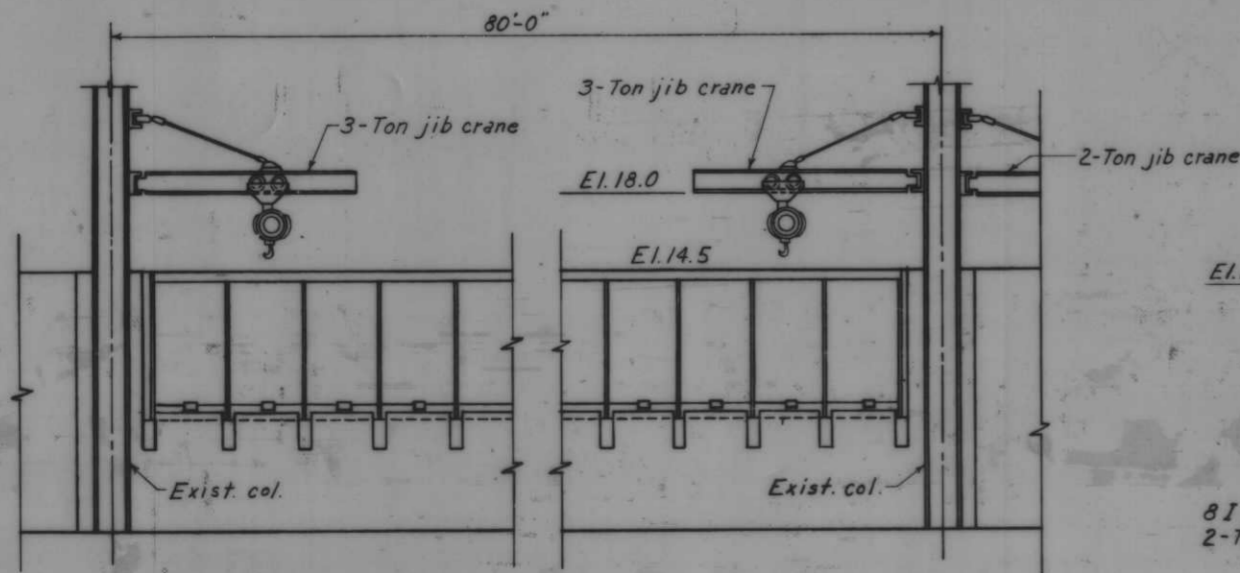


TYPICAL HINGED FLAP

PLAN

Note:
Minimum height of travel for 3 ton hoist shall be 12'-0".
Minimum reach of 3 ton hoist chain measured from bottom of I-beam shall be 11'-0".
Minimum height of travel for 2 ton hoist shall be 9'-0".
Minimum reach of 2 ton hoist chain measured from bottom of I-beam shall be 11'-0".

Note:
Latches are required for all jib cranes and shall all be similar to the detail as shown.



GATE NO. 9

**ELEVATION
CRANE LATCH**
Scale: 3"=1'-0"

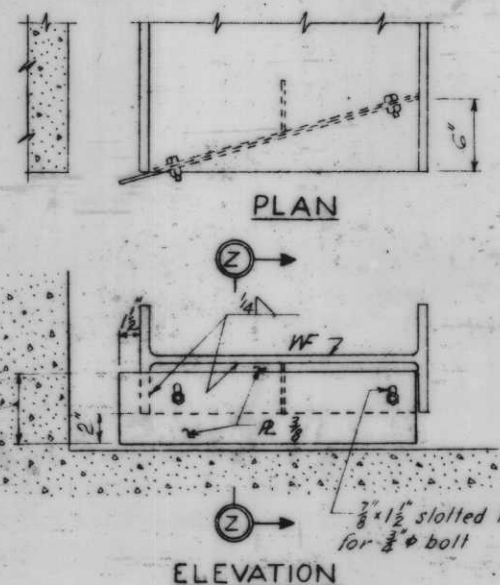
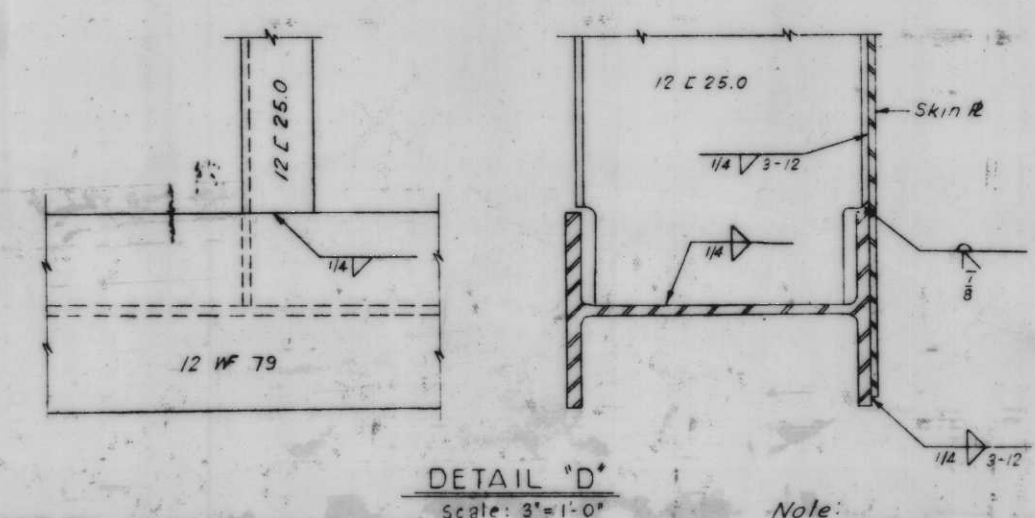
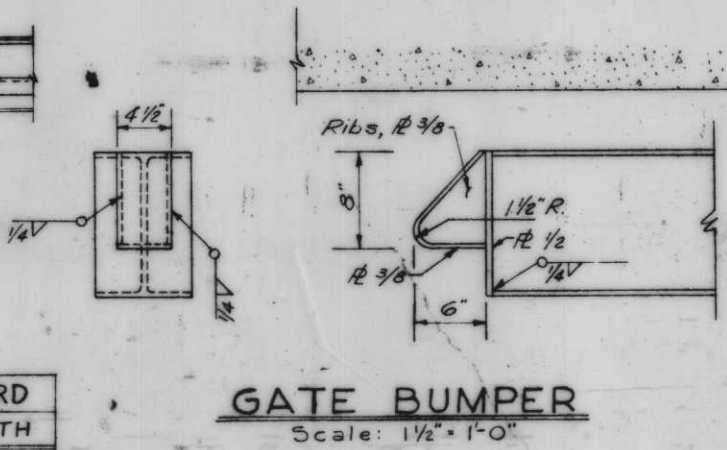
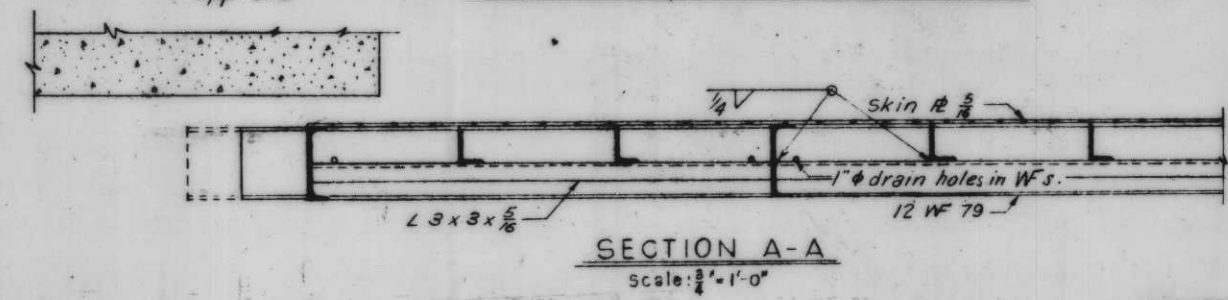
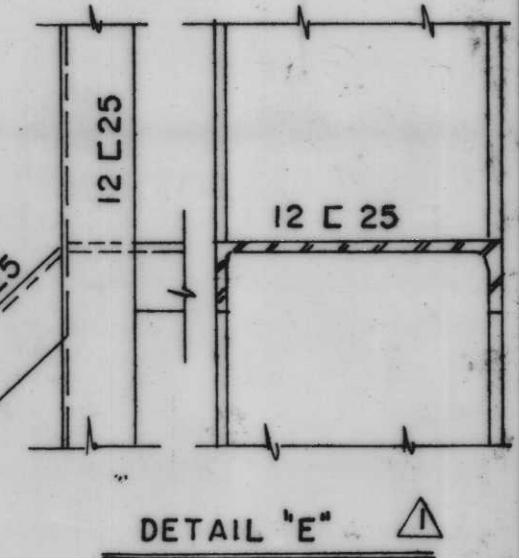
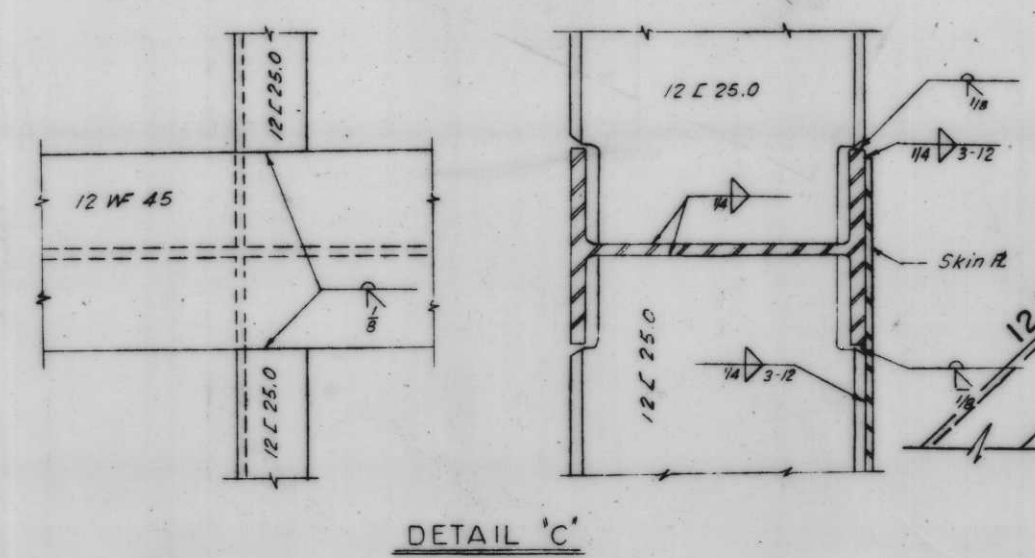
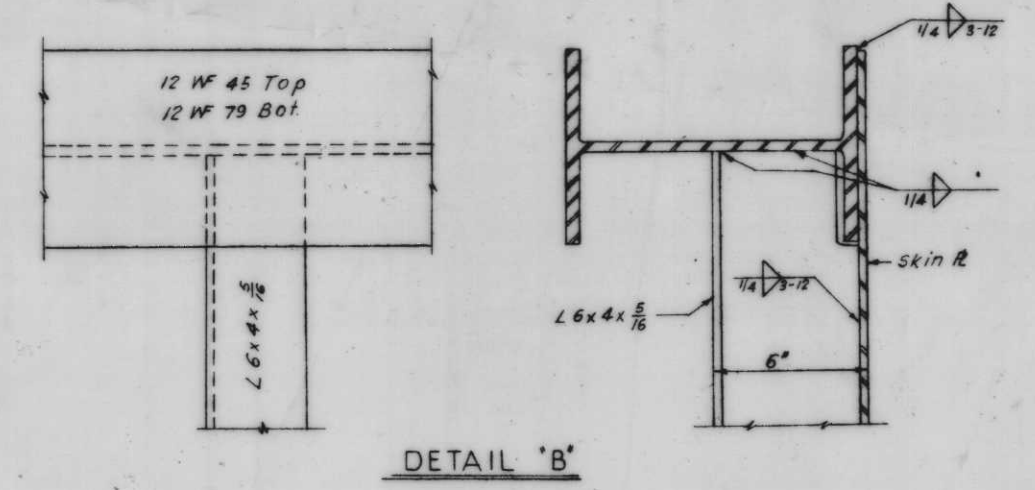
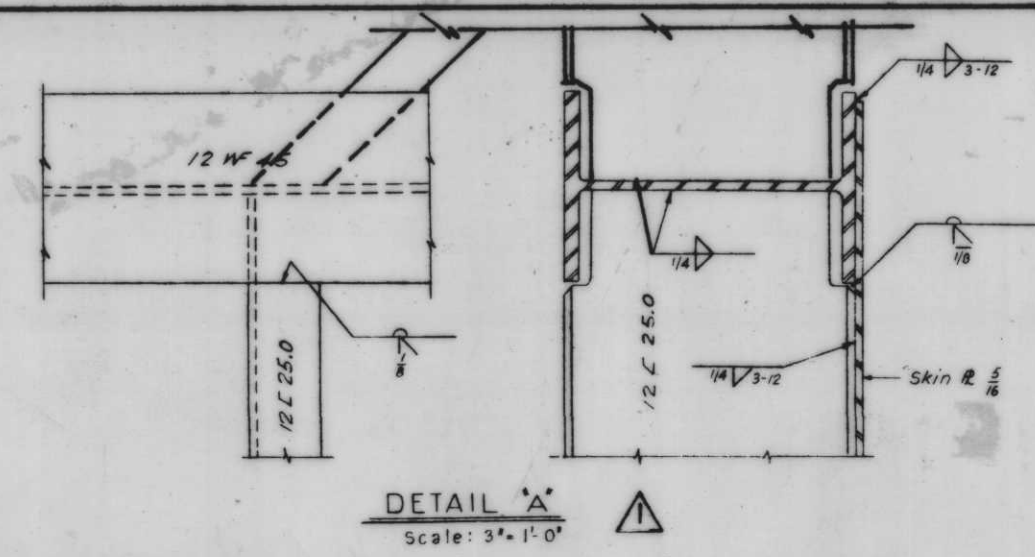
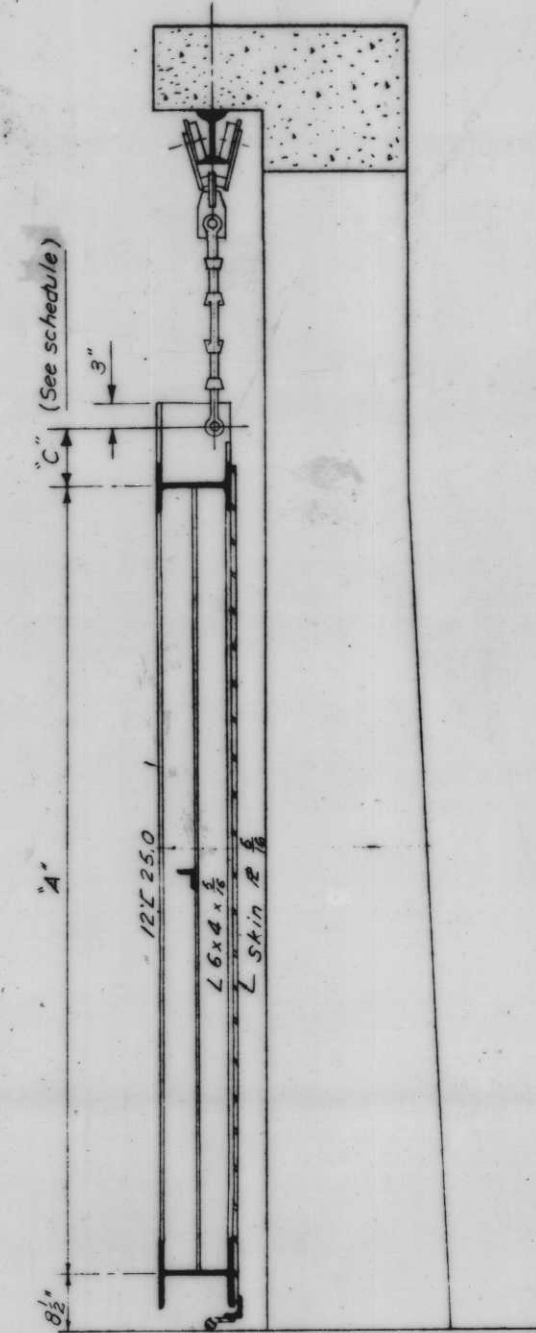
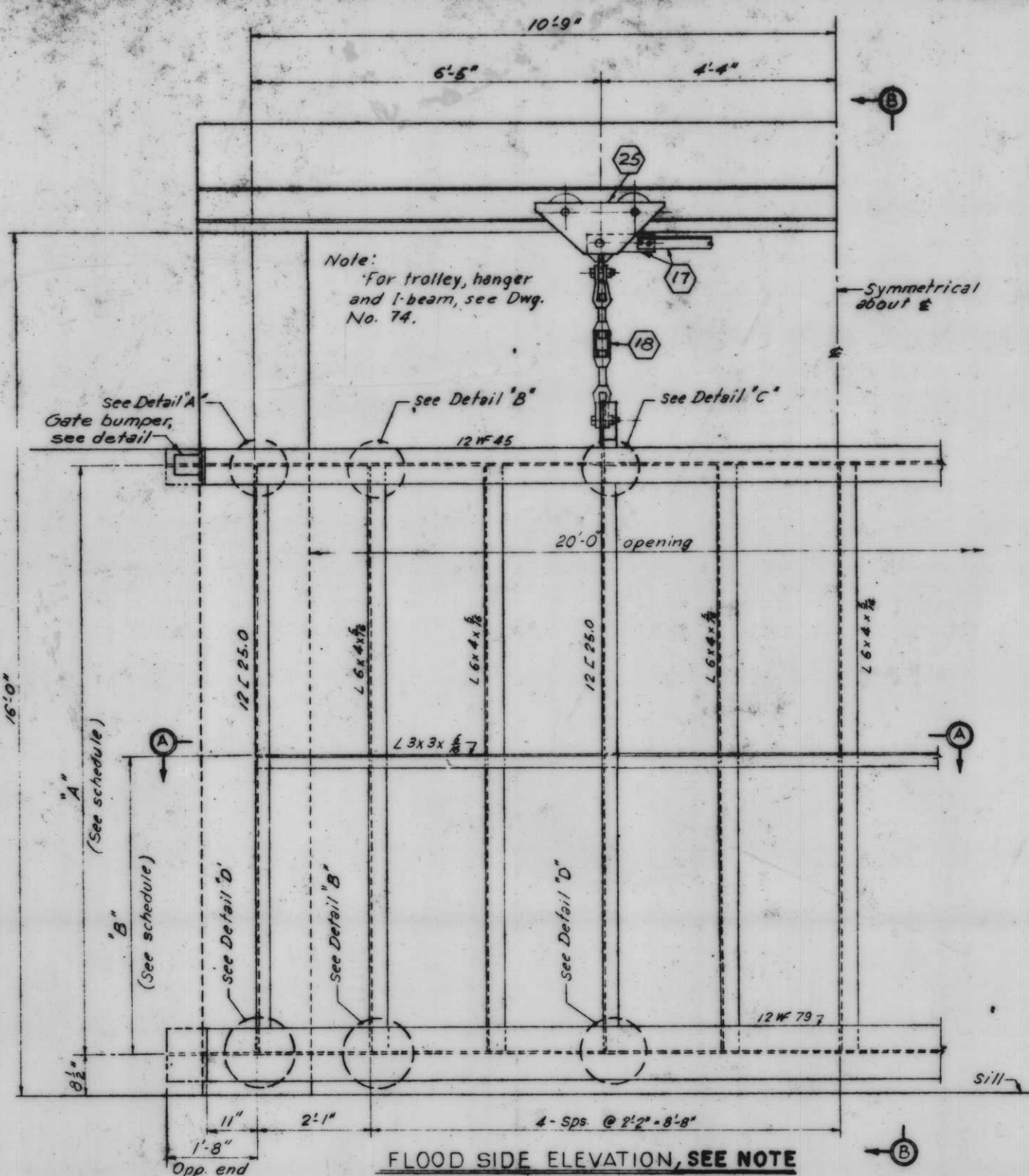
Note:
All work on this drawing will be paid for at contract price item (26).
For general notes, see Dwg. No. 4

FLOOD SIDE ELEVATIONS AS CONSTRUCTED
Scale: 1/4"=1'-0"

HINGED FLAPS AND GATE 9 JIB CRANES

REVISION	DATE	DESCRIPTION	BY
DESIGNED: D.M.B.	DRAWN: G.M.	CHECKED: H.U.	
DATE:			SCALE: SHOWN
SPEC. NO. DACW33-			DWG. NO. 67 OF 78

H-4-24263



Note: Seal guard on forward end of gates only.

SEAL GUARD	
GATE NO.	WIDTH
1	7"
2	5 1/2"
4	5 1/2"
5	5 1/2"
6	5 1/2"
7	4 3/4"
8	5 1/2"
10	5 1/2"
12	5 1/2"
14	7"
15	7"

NOTE: SEE DWG. NO. 75A FOR REVISED FLOODSLIDE ELEV. & SECTION B-B OF GATE NO. 1

GATE SCHEDULE					
GATE	SILL EL.	VERT. CL.	"A"	"B"	"C" (C)
+	2.75	16'	10'-11 1/4"	5'-11"	1'-9 1/4"
14	3.25	16'	3'-8 1/4"	4'-10"	1'-9 1/4"
15	2.0	16'	10'-11 1/4"	5'-5 1/2"	0'-6 1/4"

Note: All work on this Dwg. will be paid for item (17) except trolley and hanger detail. For general notes, see Dwg. No. 4. For seal details, see Dwg. No. 75. (C) dimensions subject to variation with trolley used (see Dwg. 74).

3-9-69 CHANGED DET. A & ADDED DET. E LB.

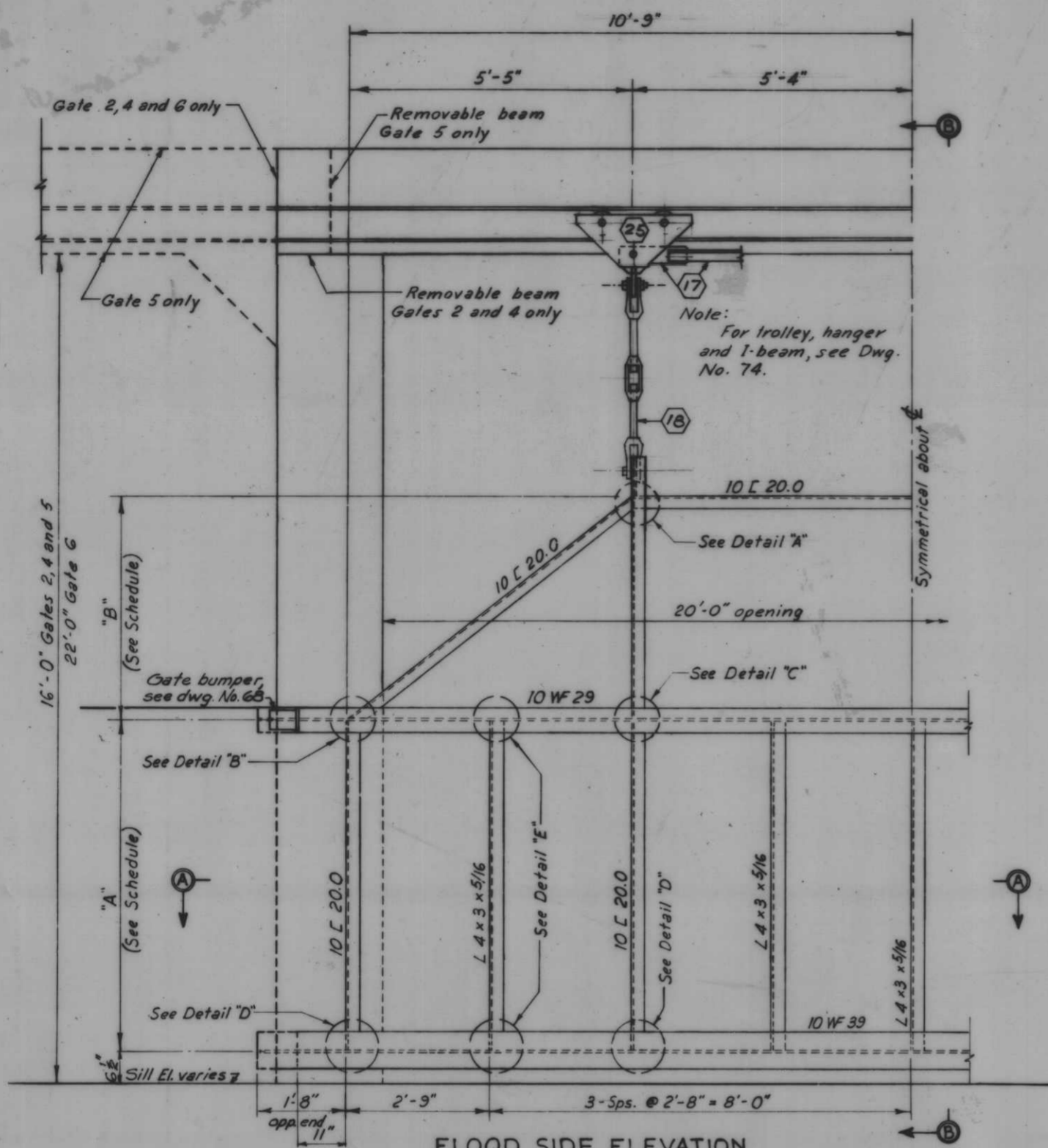
REVISION	DATE	DESCRIPTION
DESIGNED		
DRAWN		
CHECKED		
CODE IDENT NO.	SIZE	FILE NO.
M.L.B.	E.J.C.	J.S.H.

H-4-24263

DATE _____ SCALE SHOWN _____ SPEC NO. DACWB _____ DWG NO. 68 OF 76

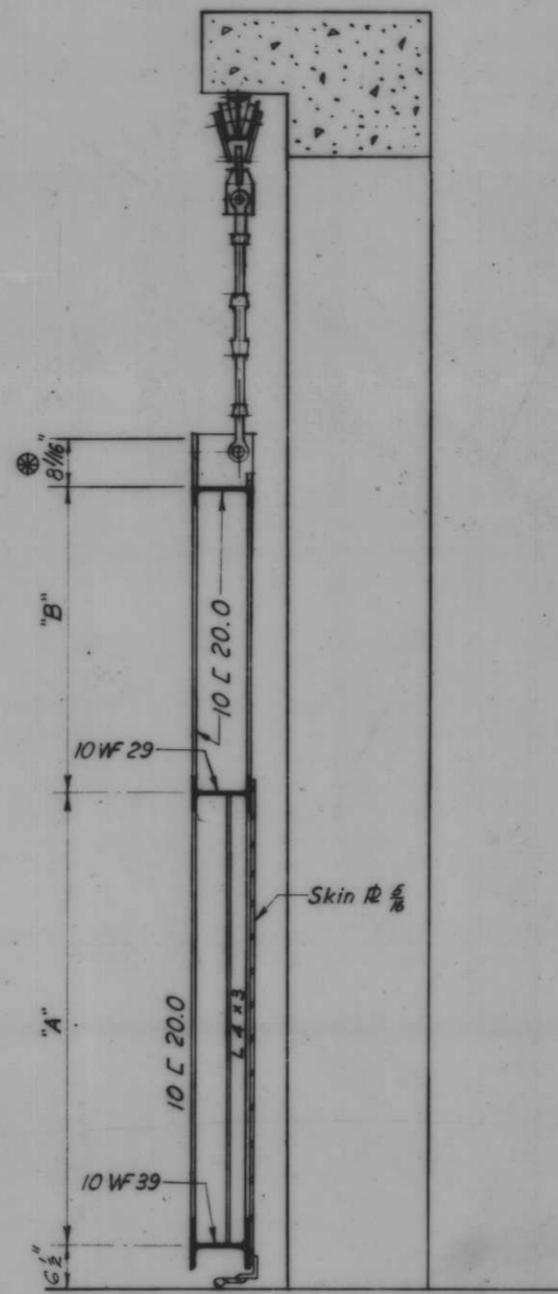
IHNC, WEST LEVEE, FLA. AVE. TO IHNC LOCK - FLOODWALL

OVERHEAD ROLLER GATES - GATES 1, 14 AND 15

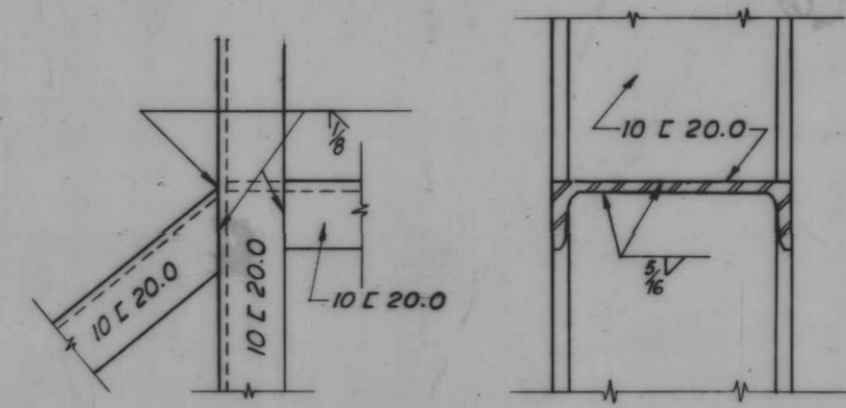


FLOOD SIDE ELEVATION

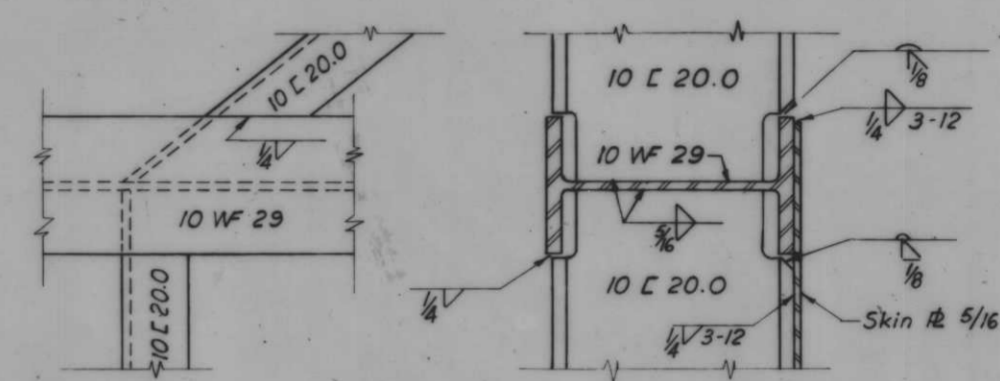
GATES 2, 4 and 6 (as shown)
GATE 5 (Opp. hand)



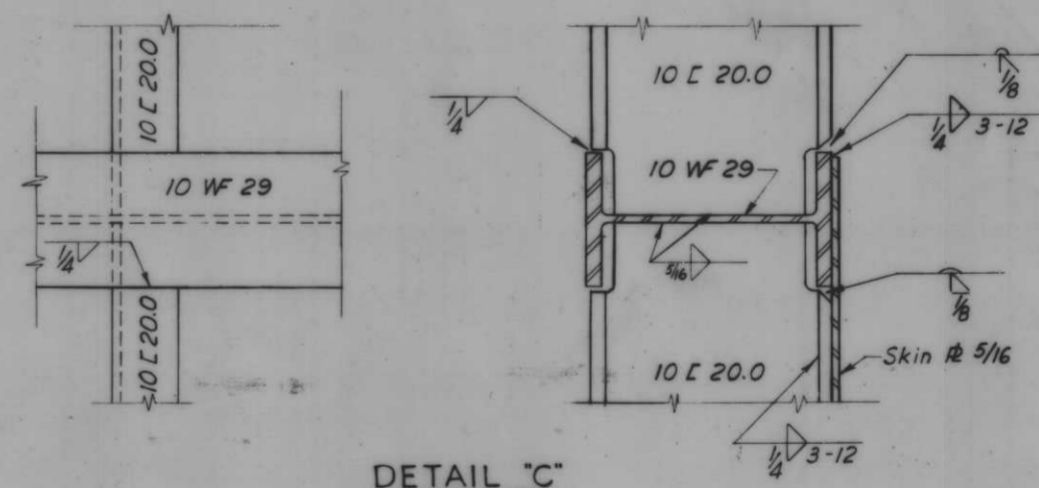
SECTION B-B



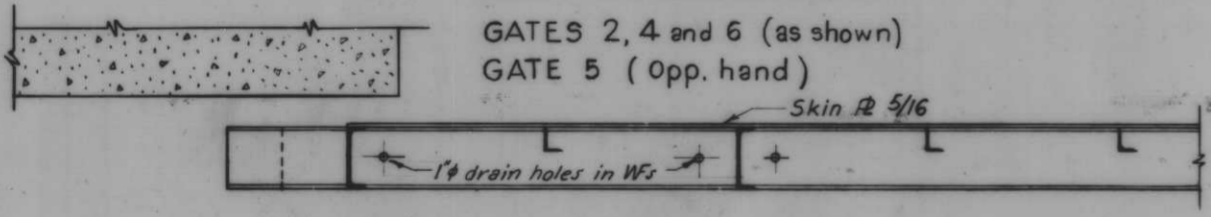
DETAIL "A"



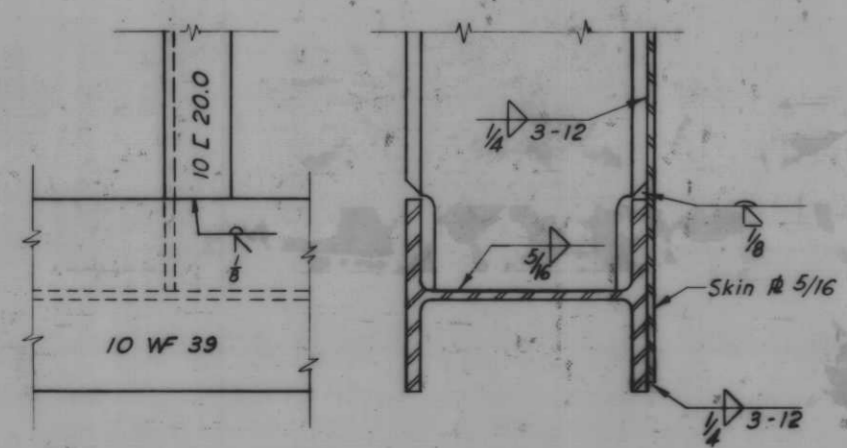
DETAIL "B"



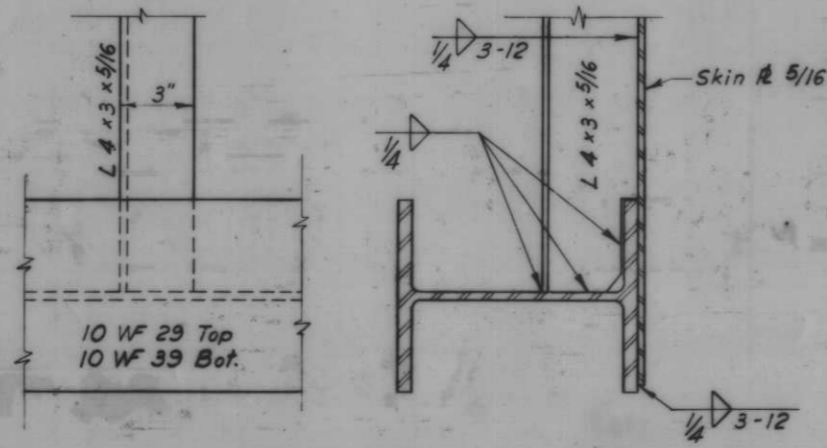
DETAIL "C"
Scale 3" = 1'-0"



SECTION A-A
Scale 3/4" = 1'-0"



DETAIL "D"



DETAIL "E"
Scale 3" = 1'-0"

GATE SCHEDULE

GATE	SILL EL. VERT. CL.	A	B
2	7.20	16'	6'-0"
4	7.00	16'	6'-2 1/4"
5	7.75	16'	5'-5 1/2"
6	8.00	22'	5'-2 1/2"

Note: All work on this drawing will be paid for item 17 except trolley and hanger detail. For general notes, see Dwg. No. 4. For seal details, see Dwg. No. 75.

* This dimension subject to variation with trolley used (see Dwg. 74).

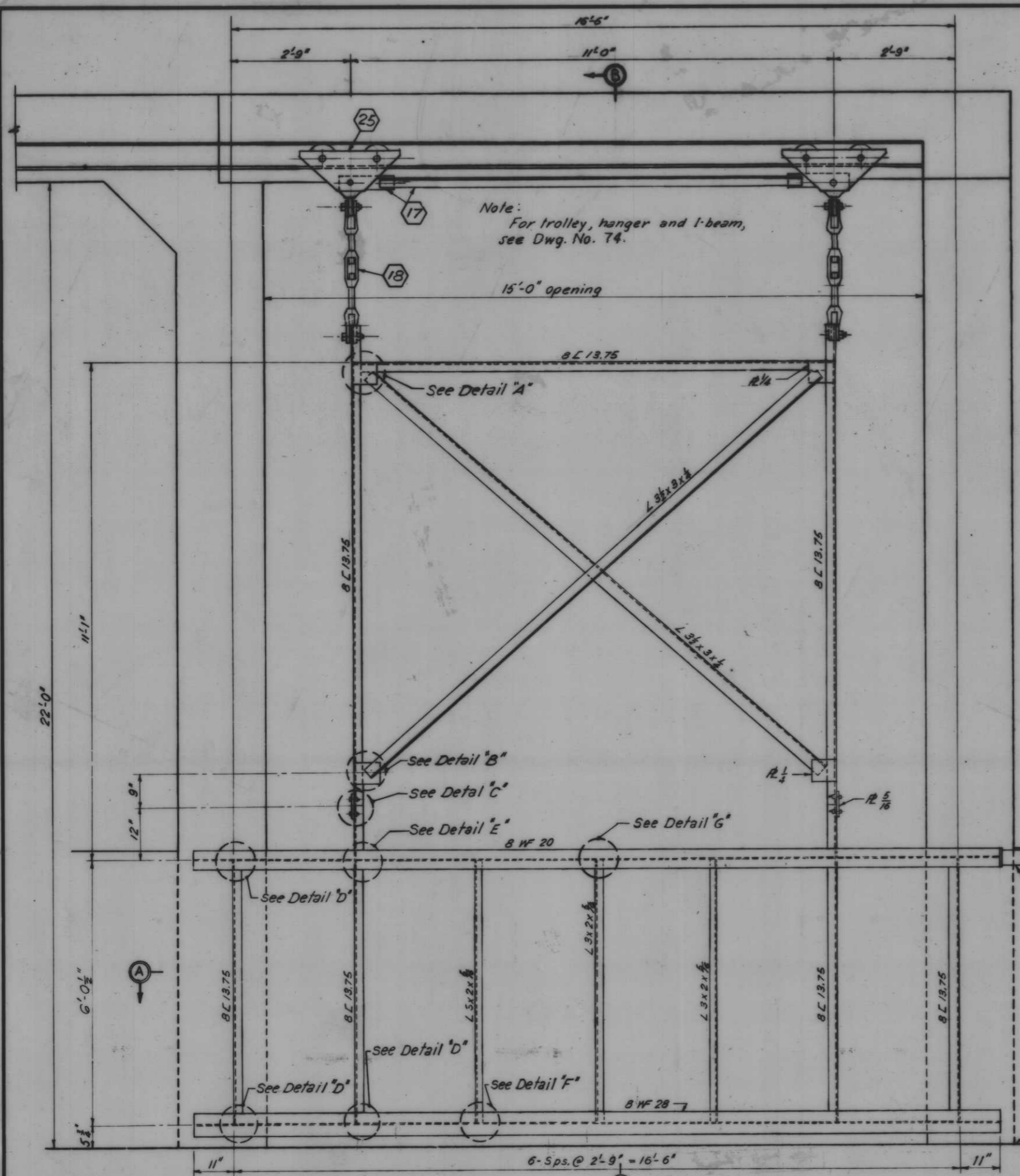
AS CONSTRUCTED

OVERHEAD ROLLER GATES-GATES 2,4,5 AND 6

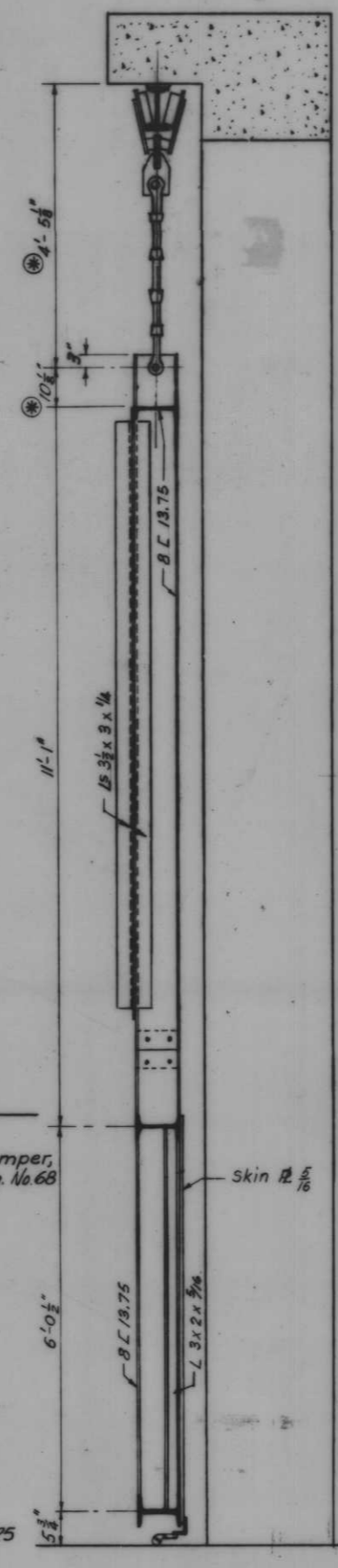
REVISION	DATE	DESCRIPTION	BY
DESIGNED	DRAWN	CHECKED	CODE IDENT. NO. SIZE FILE NO.
T.F.P.	E.M.	J.S.H.	
DATE:	SCALE: SHOWN	SPEC. NO. DACTAB:	DWG. NO. 69 OF 76

H-4-24263

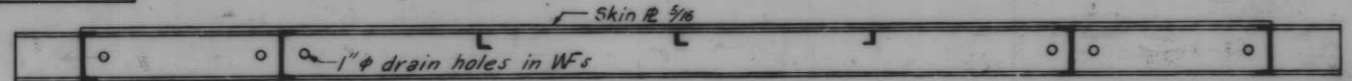
IHNC, WEST LEVEE, FLA. AVE. TO IHNC LOCK - FLOODWALL



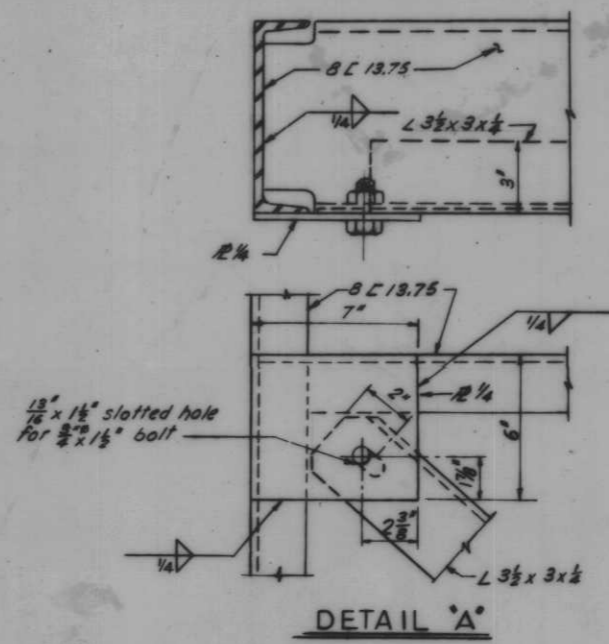
FLOOD SIDE ELEVATION



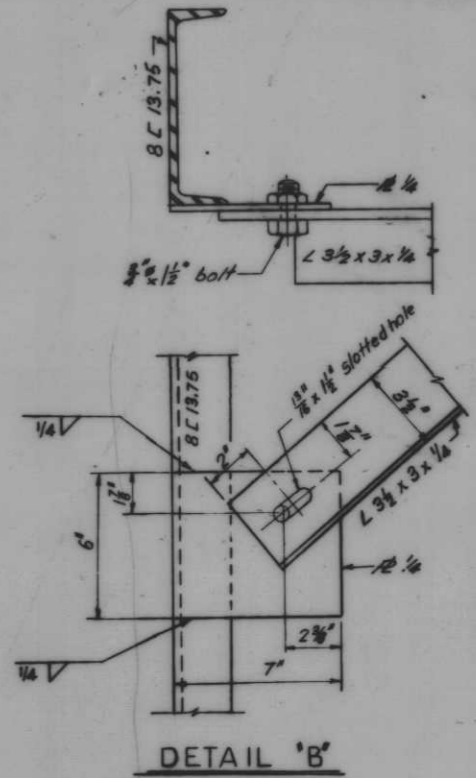
SECTION B-B



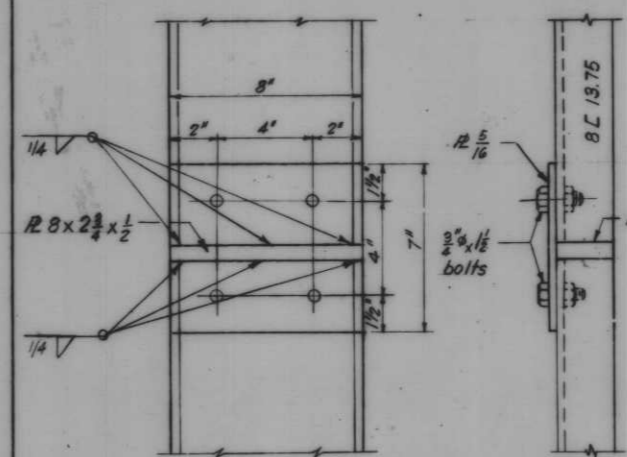
SECTION A-A
Scale: 3/4" = 1'-0"



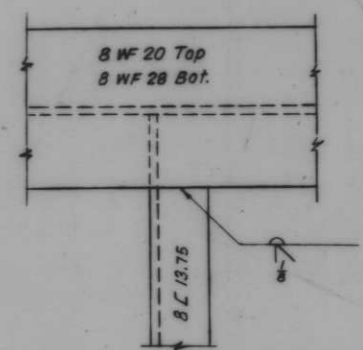
DETAIL A



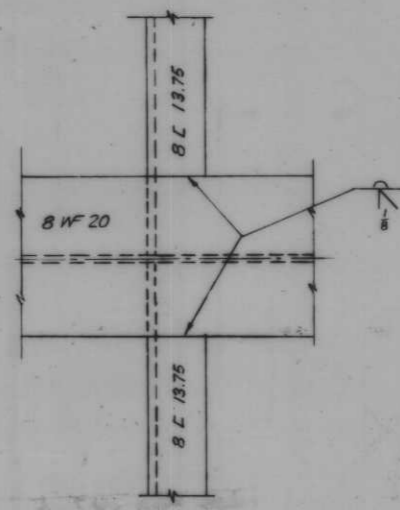
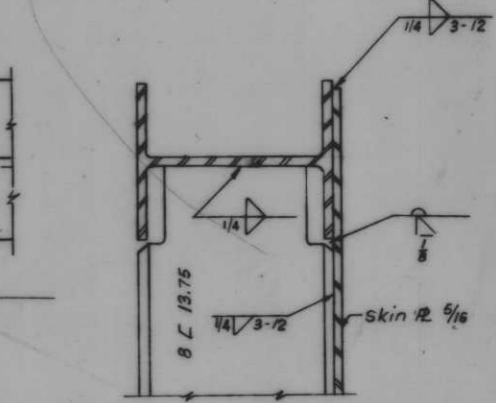
DETAIL B



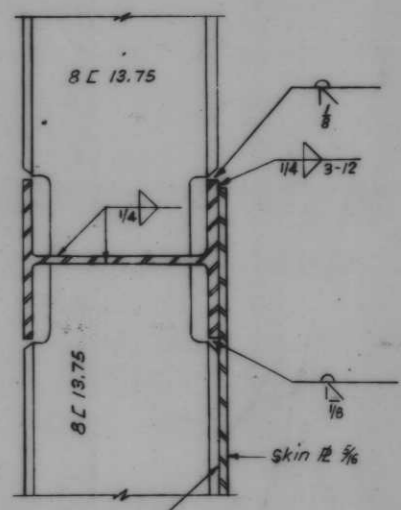
DETAIL C



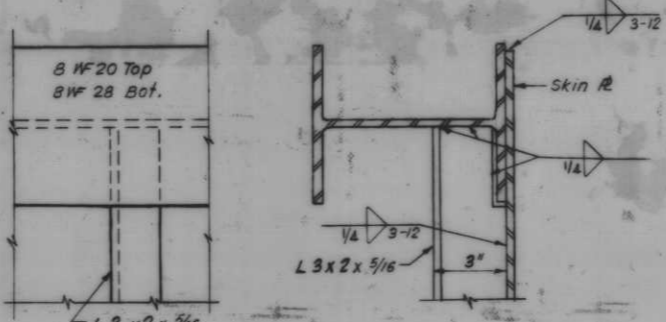
DETAIL D



DETAIL E
Scale 3/4" = 1'-0"



Note:
All work on this Dwg. will be paid for item (17) except trolley and hanger detail.
For general notes, see Dwg. No. 4.
For seal details, see Dwg. No. 75.
⊙ This dimension may vary with trolley used (see Dwg. 74)

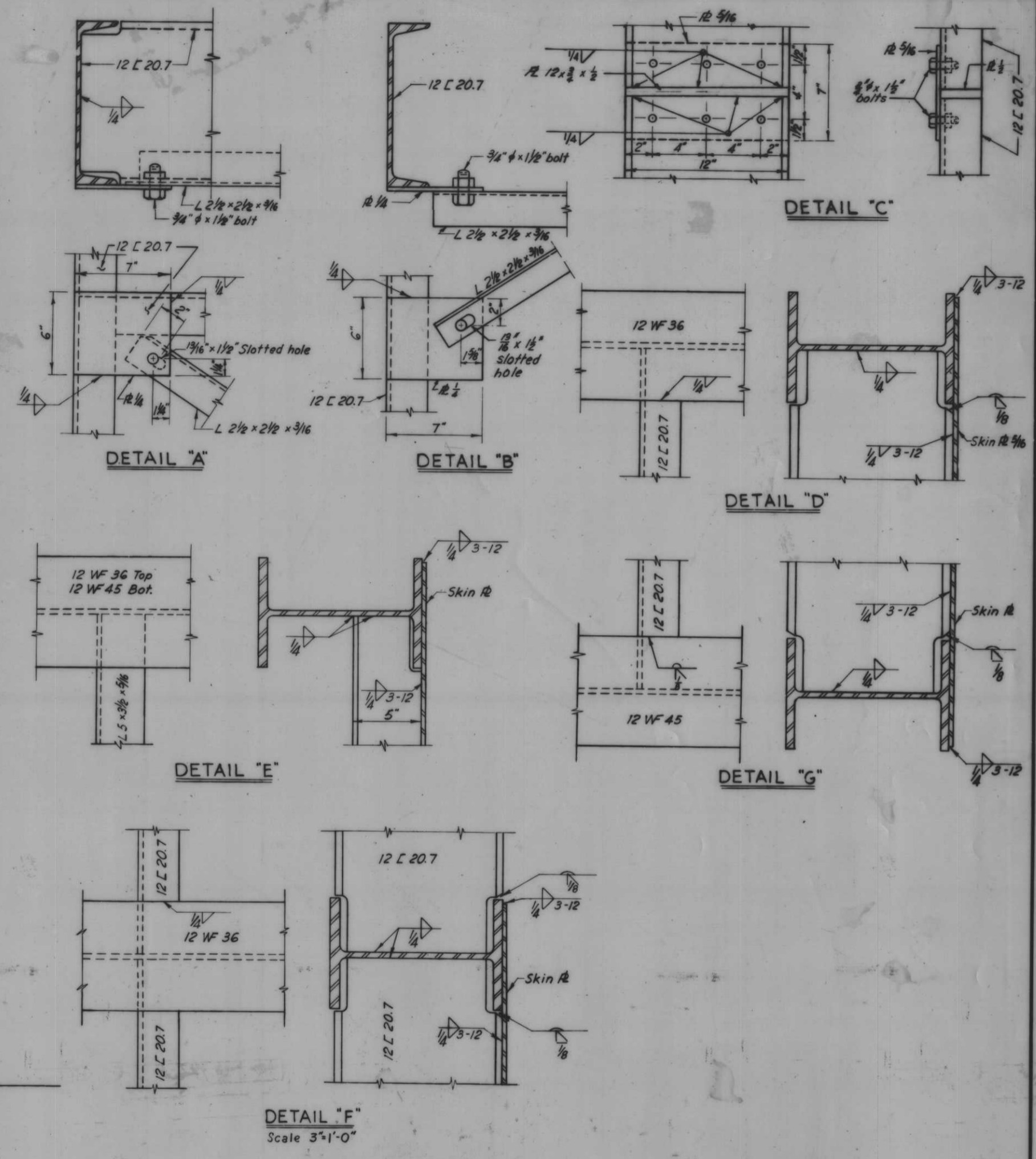
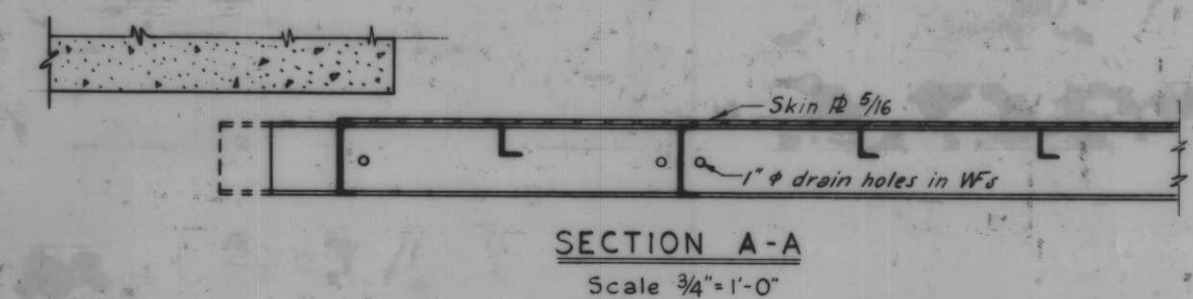
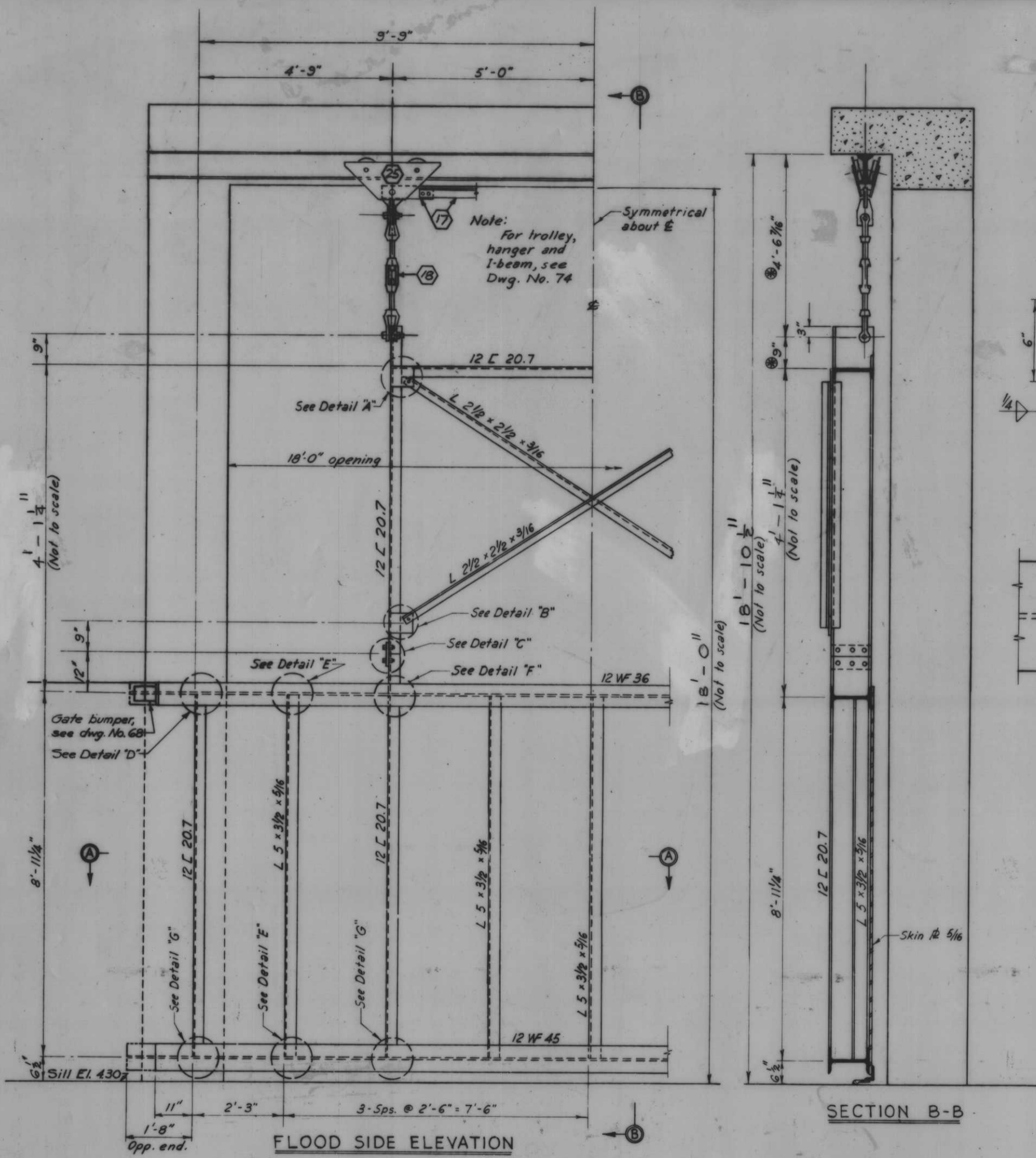


DETAIL G
DETAIL F (INVERTED)

AS CONSTRUCTED

OVERHEAD ROLLER GATE-GATE 7

REVISION	DATE	CHECKED	CODE IDENT. NO.	SIZE	FILE NO.	DESCRIPTION	BY
T.F.P.	E.J.C.	J.S.H.				H-4-24263	
DATE: _____ SCALE: SHOWN _____ SPEC. NO. DACW28- _____ DWG. NO. 70 OF 78							



AS CONSTRUCTED

OVERHEAD ROLLER GATE-GATE 8

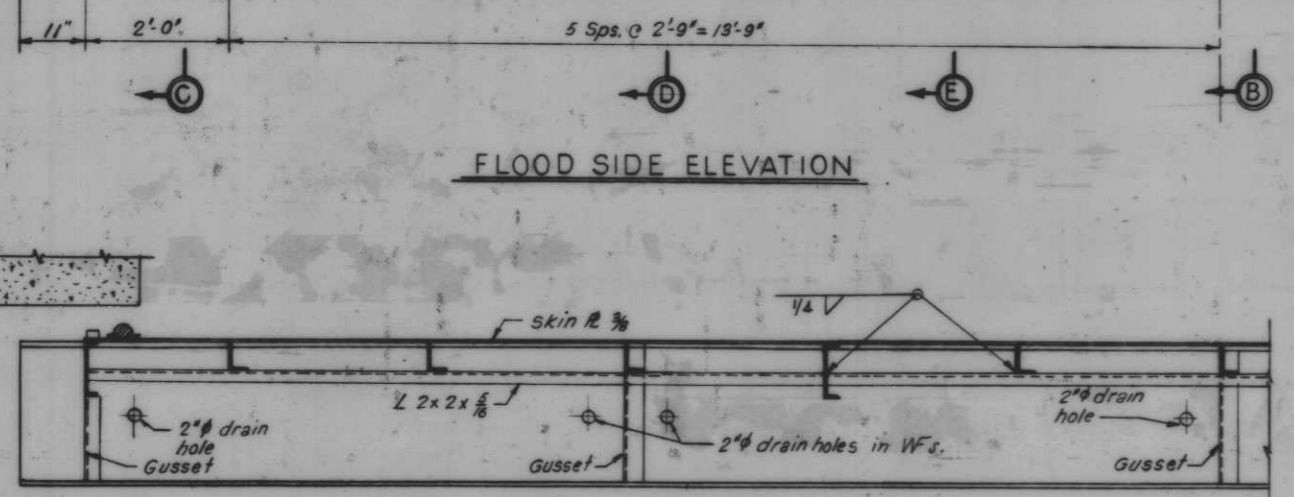
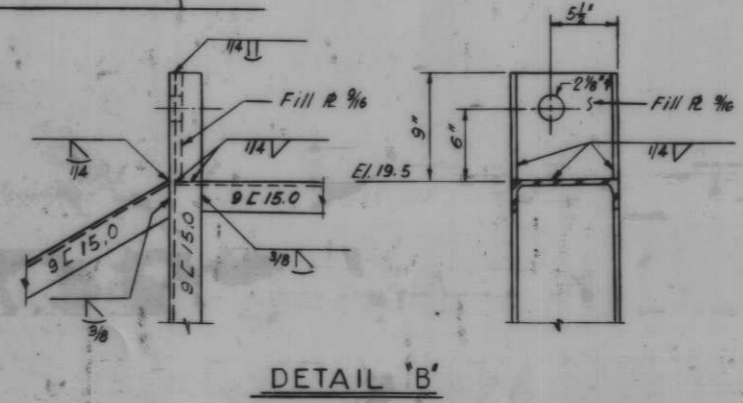
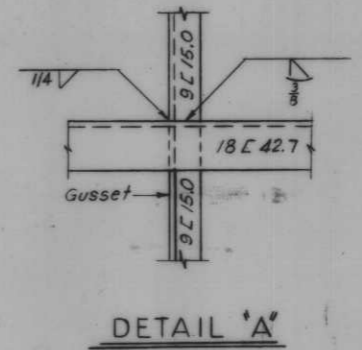
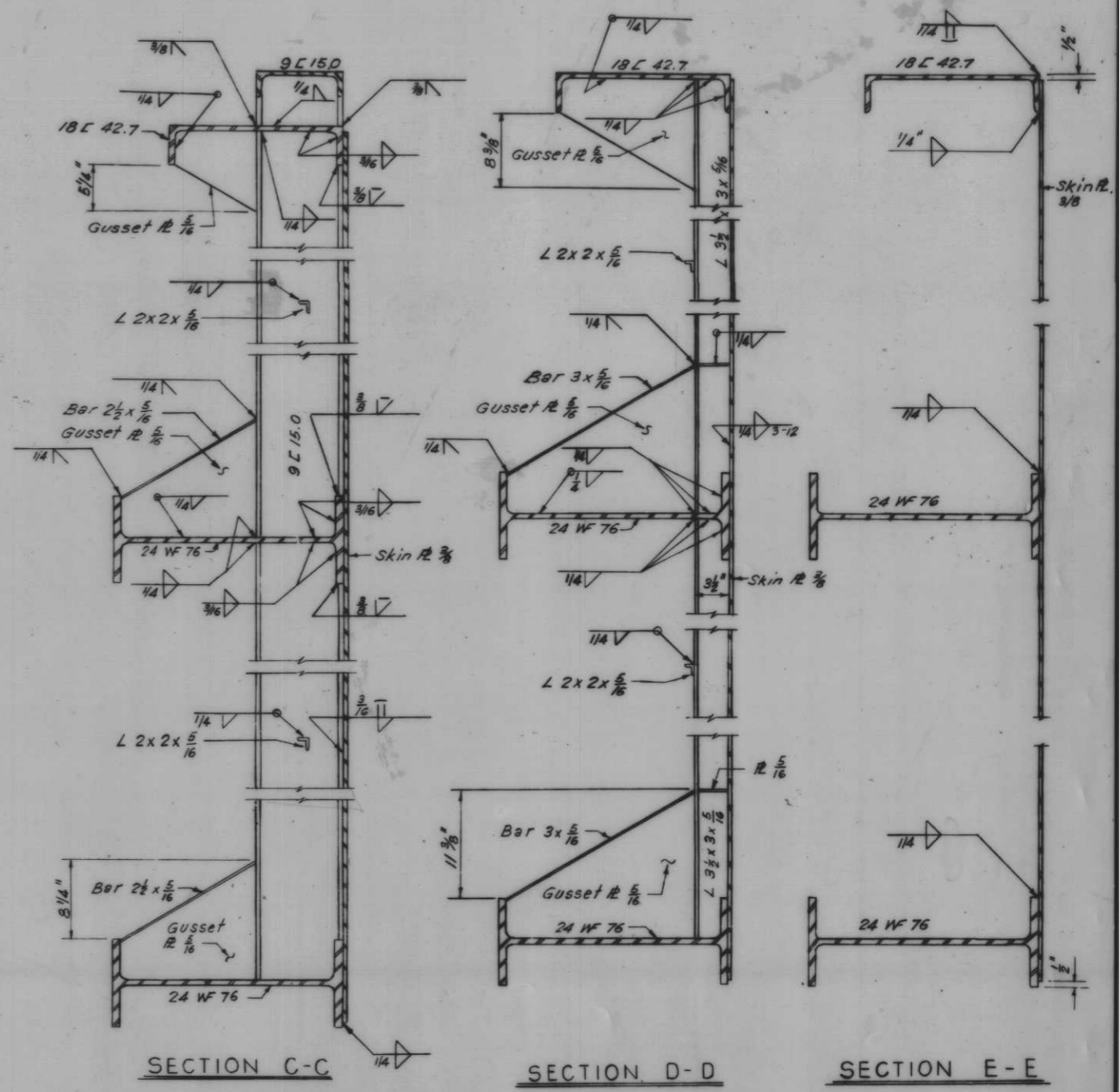
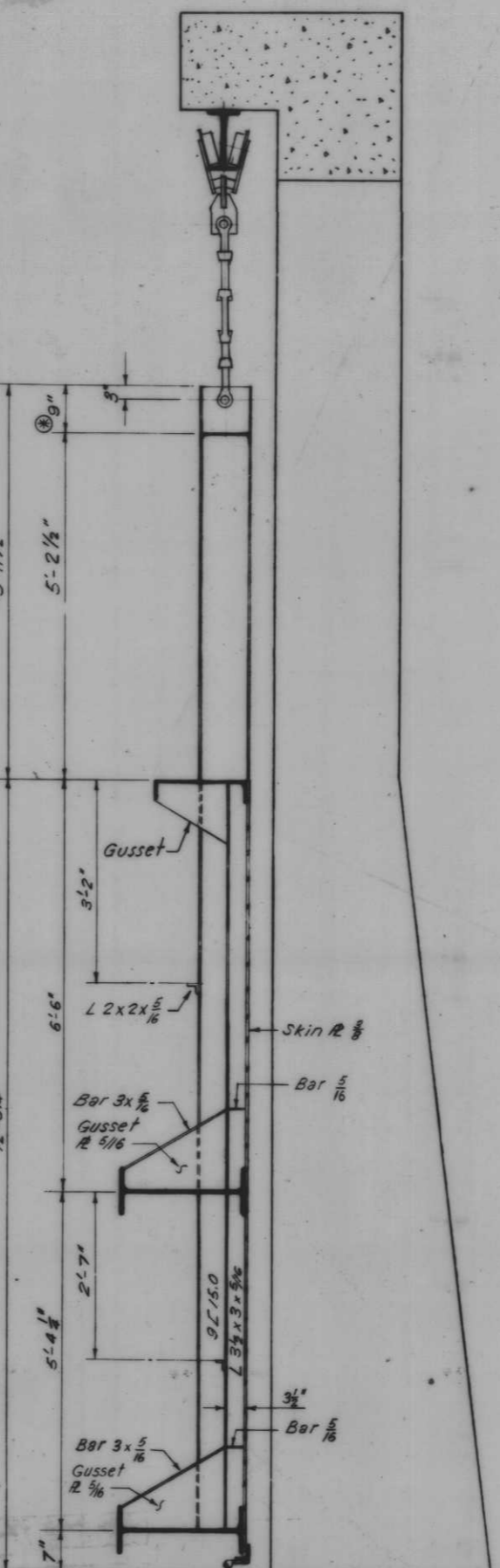
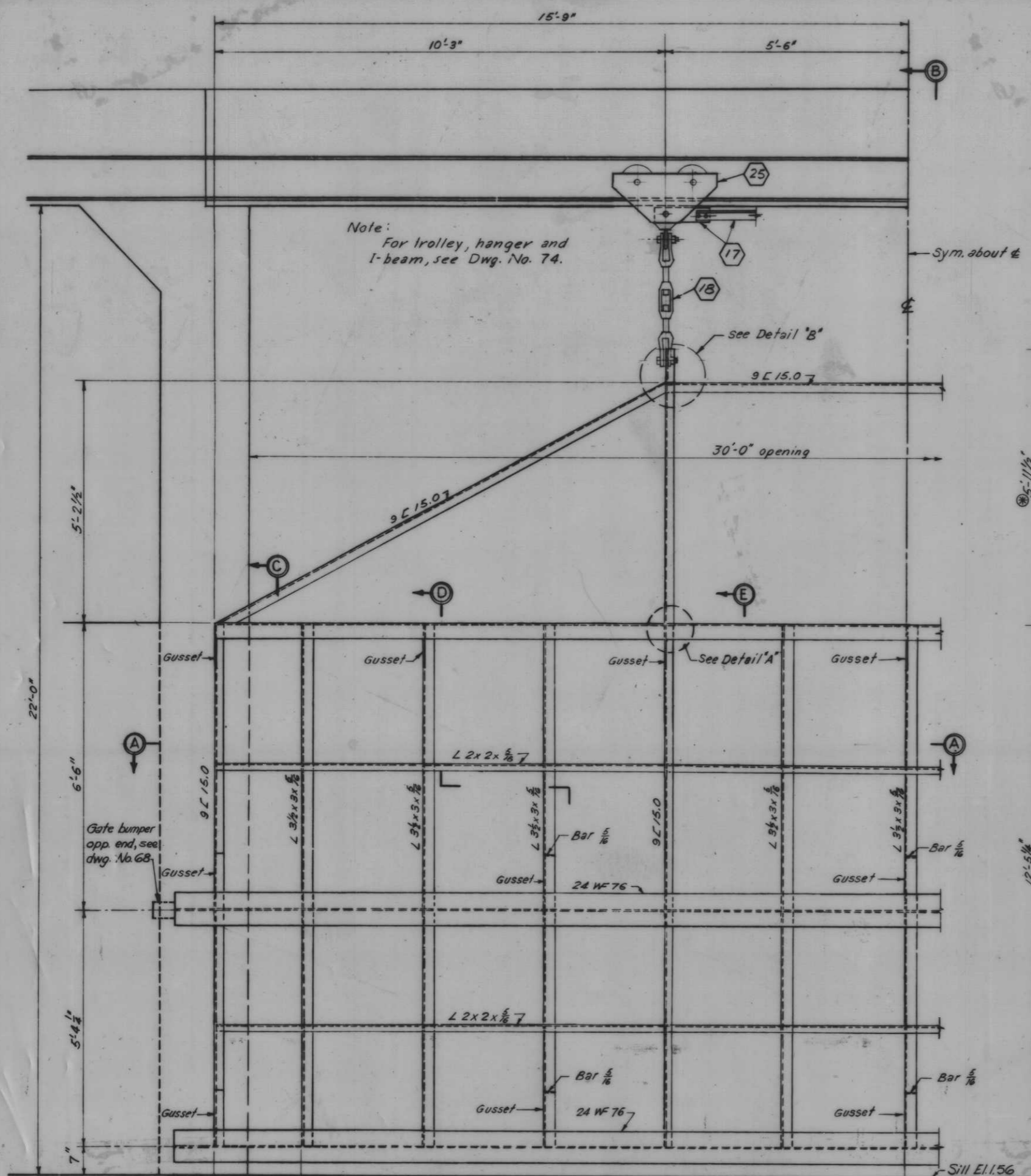
Note: All work on this drawing will be paid for item 17 except trolley and hanger detail.

For general notes, see Dwg. No. 4

For seal details, see Dwg. No. 75

These dimensions may vary with trolley used (see Dwg. 74)

6-4-69 REDUCED GATE HEIGHT		BY	
DESIGNED	DATE	CHECKED	DESCRIPTION
D.A.M.	E.M.	J.S.H.	H-4-24263
SCALE SHOWN	SPEC. NO. DASHED	DWG. NO. 71	OF 78

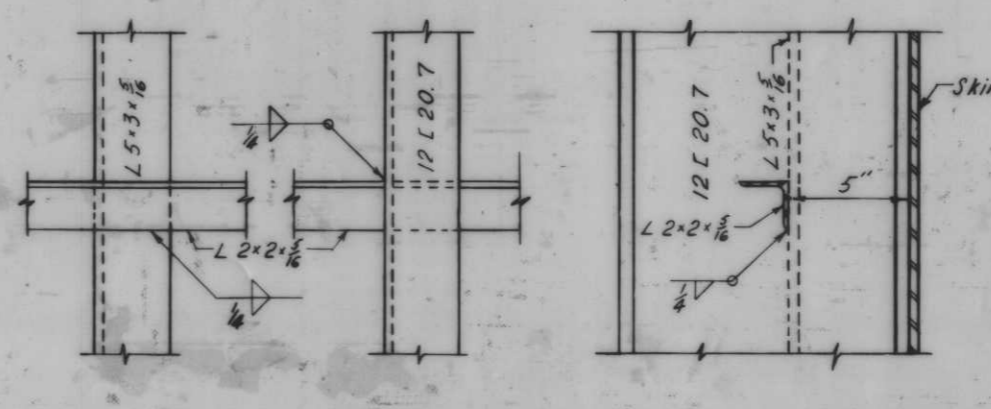
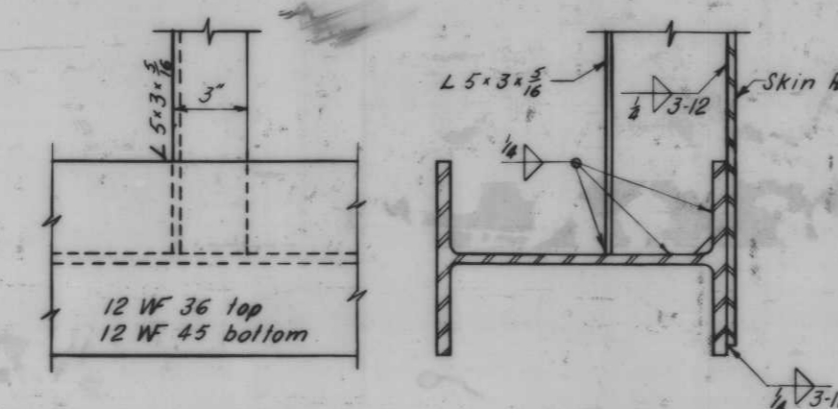
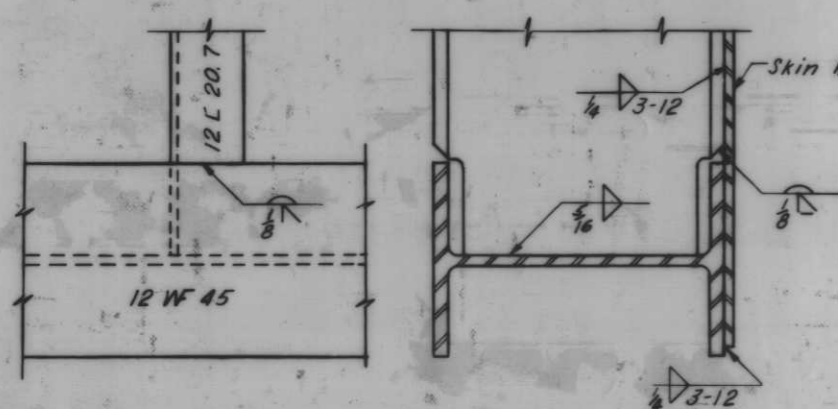
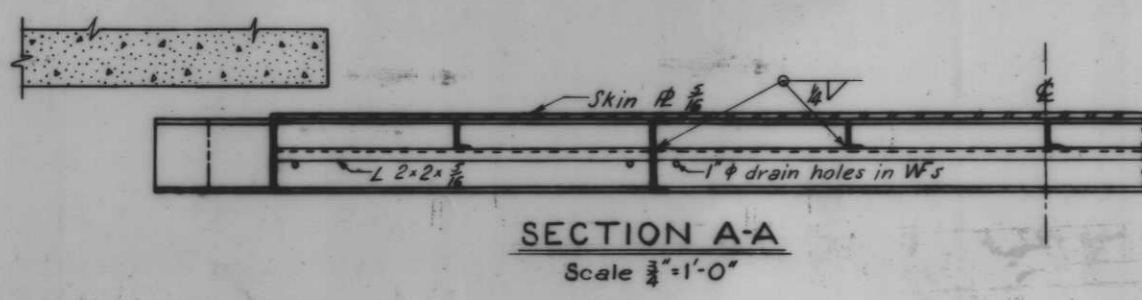
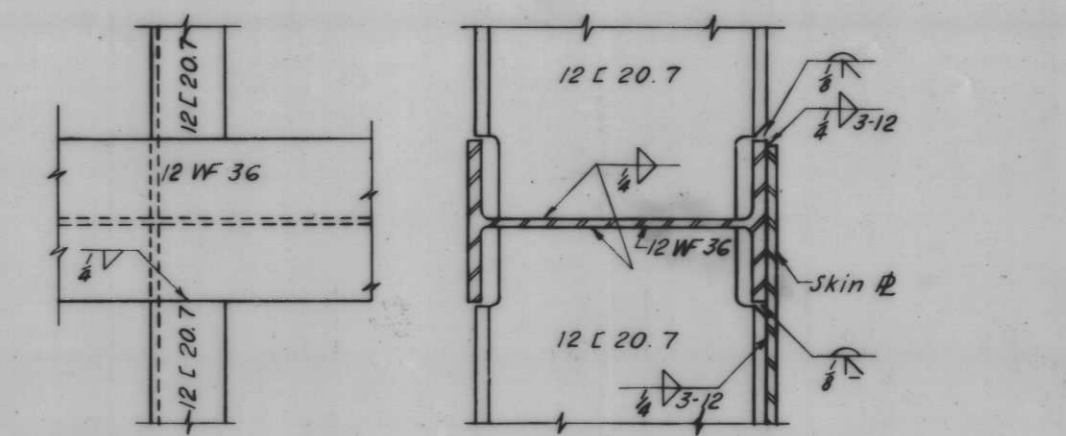
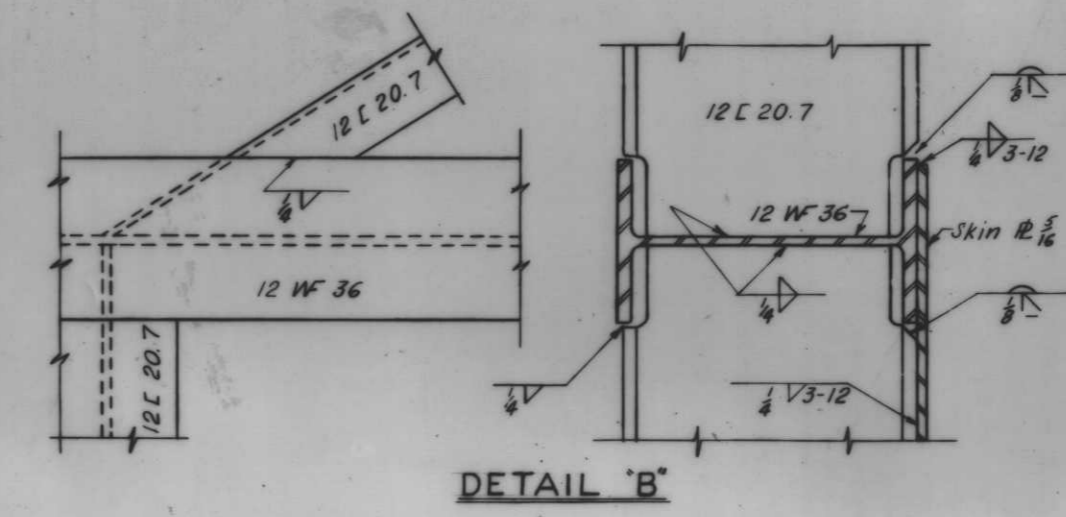
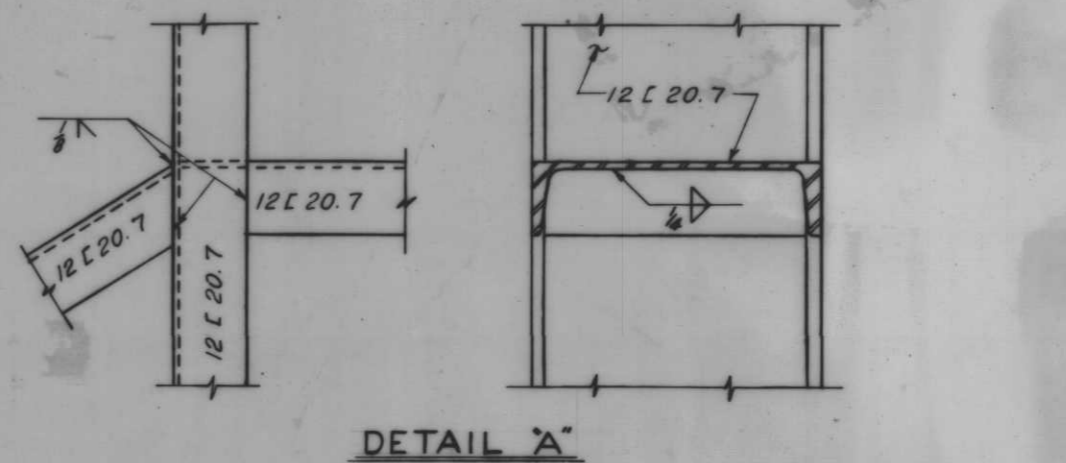
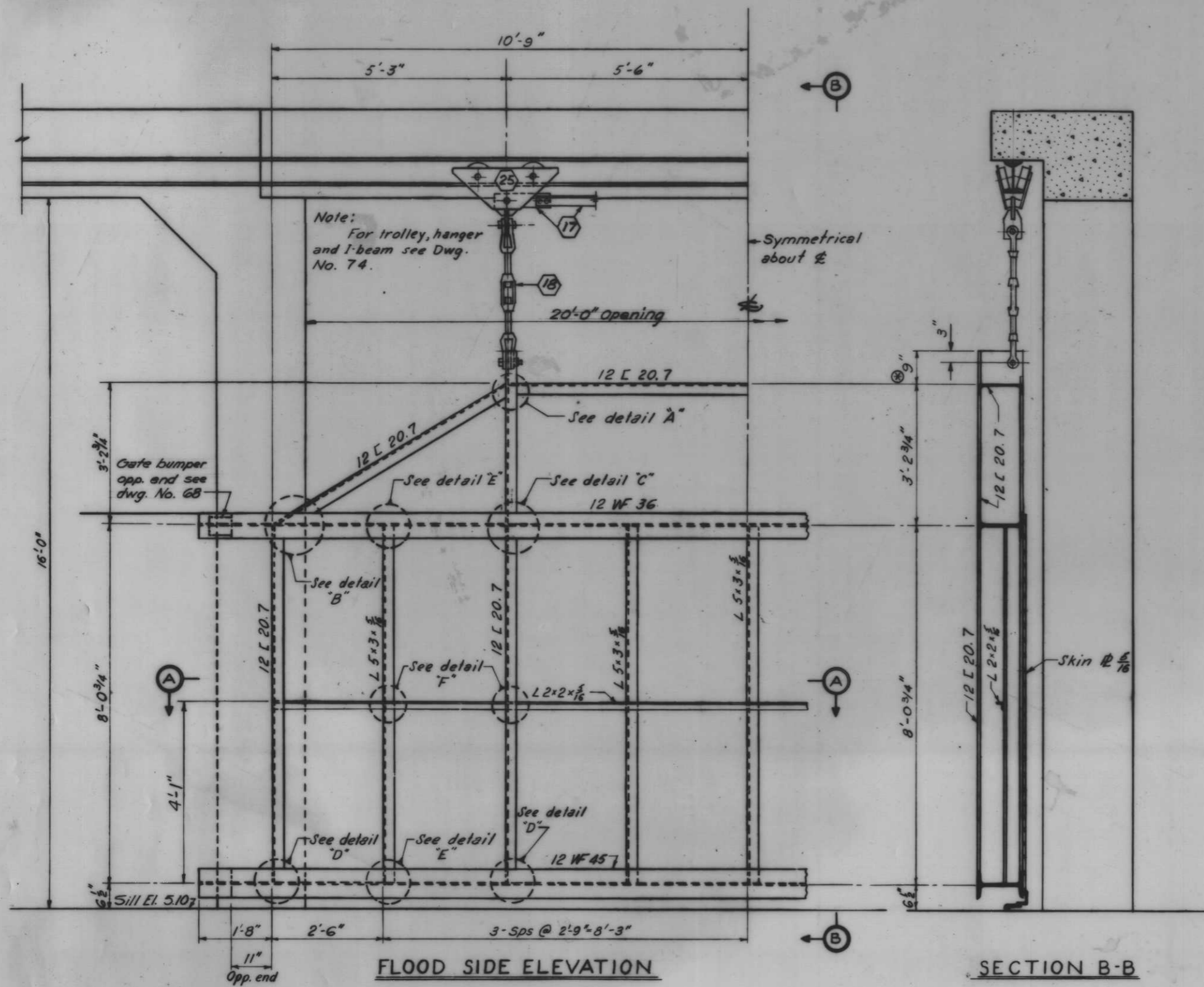


Note:
 All work on this Dwg. will be paid for item (17) except trolley and hanger detail.
 For general notes, see Dwg. No. 4.
 For seal details, see Dwg. No. 75.
 * These dimensions may vary with trolley used (see Dwg. 74)

AS CONSTRUCTED

OVERHEAD ROLLER GATE - GATE 10

REVISION	DATE	CHECKED	CODE IDENT. NO.	SIZE	FILE NO.	DESCRIPTION	BY
DESIGNED		D.M.B.					
DRAWN		E.J.C.					
CHECKED		J.S.H.					
						H-4-24263	
						SCALE: SHOWN	SPEC. NO. DACW28
						DATE:	DWG. NO. 72 OF 78



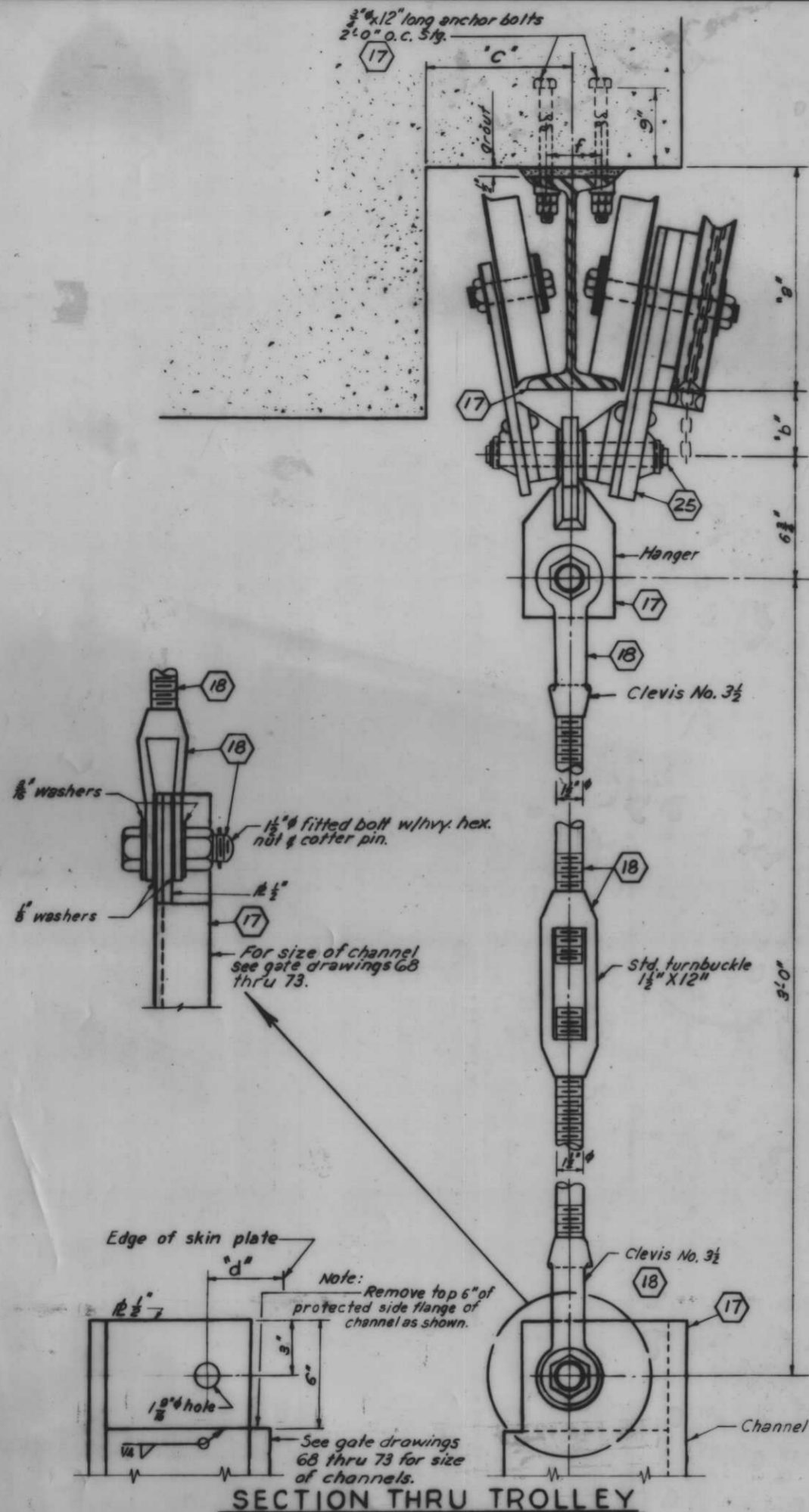
AS CONSTRUCTED

Scale: 3" = 1'-0"

OVERHEAD ROLLER GATE - GATE 12

Note:
All work on this drawing will be paid
for item (17) except trolley and hanger
detail.
For general notes, see Dwg. No. 4
For seal details, see Dwg. No. 75
⊗ This dimension may vary with trolley
used (see Dwg. No. 74).

REVISION	DATE	DESCRIPTION	BY
DESIGNED	D.A.M.	DRAWN	D.J.H.
CHECKED	J.S.H.	CODE IDENT. NO.	SIZE
FILE NO.	H-4-24263		
DATE	SCALE SHOWN	SPEC. NO. DACWB	DWG. NO. 73 OF 78

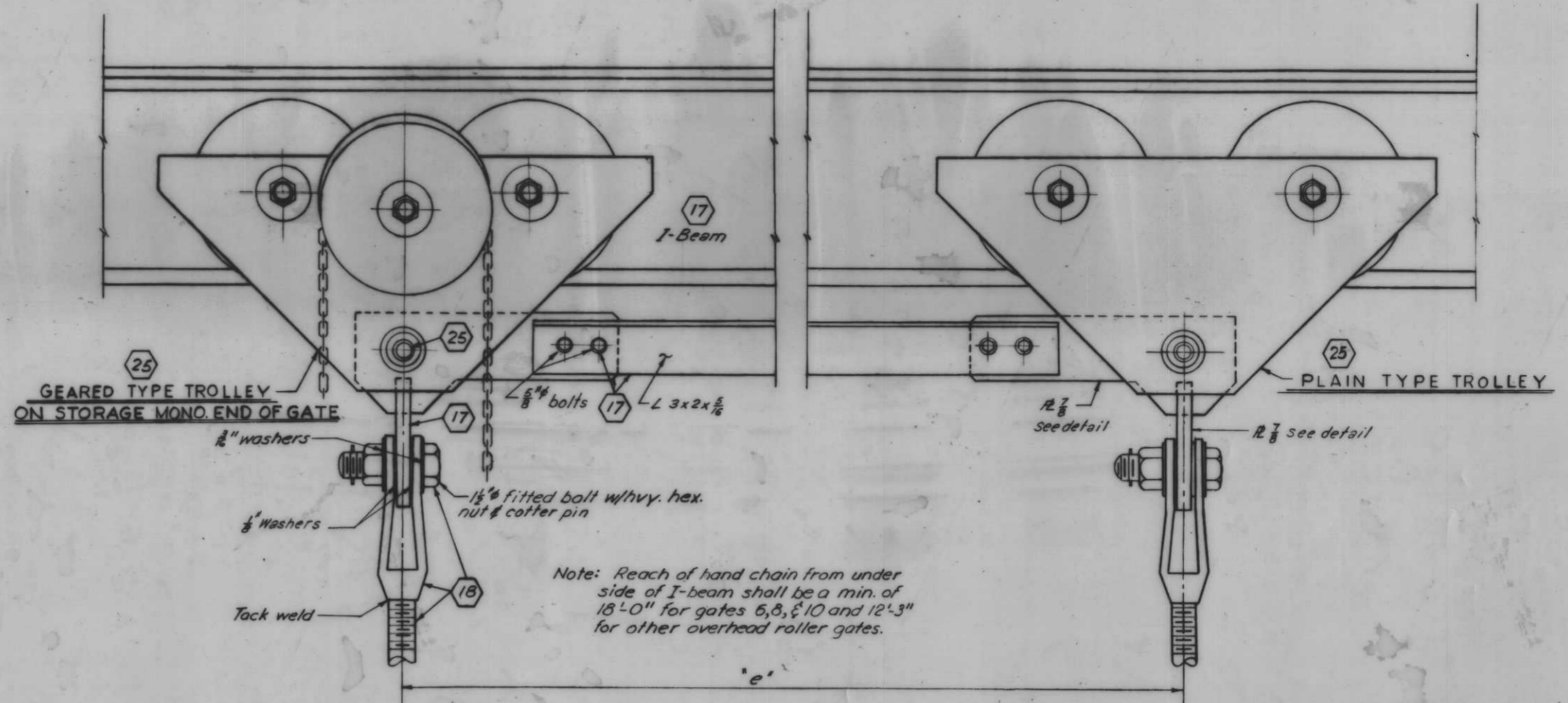


SECTION THRU TROLLEY

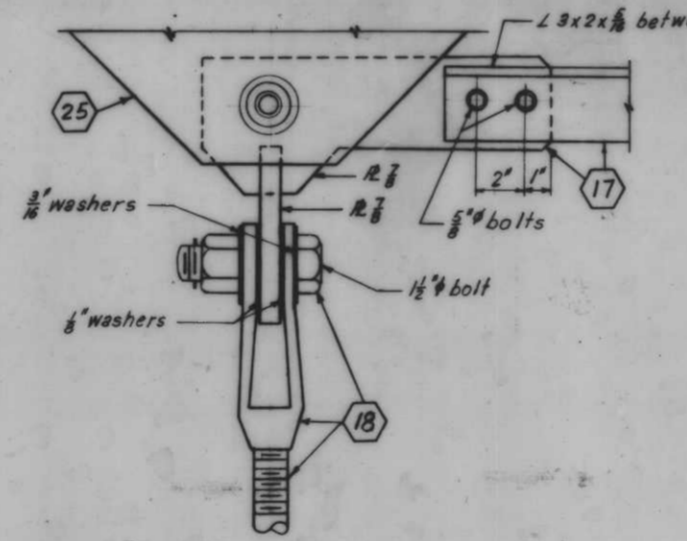
TABLE

Gate No.	Trolley Size	I Beam	Pin Dia.	a	b	c	d	e	f	g	h
1	3 Ton	10'-25.4"	1 1/2"	10 1/2"	3 1/2"	8 1/2"	3 1/2"	8'-8"	2 1/2"	19'-6"	22'-11 1/2"
2	1 1/2 Ton	7'-15.3"	1 1/2"	7 1/2"	2 1/2"	8"	3 1/2"	10'-8"	2 1/2"	19'-6"	22'-11 1/2"
4	1 1/2 Ton	7'-15.3"	1 1/2"	7 1/2"	2 1/2"	8"	3 1/2"	10'-8"	2 1/2"	19'-6"	22'-11 1/2"
5	1 1/2 Ton	7'-15.3"	1 1/2"	7 1/2"	2 1/2"	8"	3 1/2"	10'-8"	2 1/2"	19'-6"	22'-11 1/2"
6	1 1/2 Ton	7'-15.3"	1 1/2"	7 1/2"	2 1/2"	8"	3 1/2"	10'-8"	2 1/2"	*Cont.	42'-9"
7	1 1/2 Ton	7'-15.3"	1 1/2"	7 1/2"	2 1/2"	8"	4"	11'-0"	2 1/2"	18'-6"	17'-11 1/2"
8	2 Ton	8'-18.4"	1 1/2"	8 1/2"	3 1/2"	8"	3 1/2"	10'-0"	2 1/2"	*Cont.	39'-6"
10	5 Ton	12'-31.8"	2"	12 1/2"	3 1/2"	10 1/2"	5 1/2"	11'-0"	3"	26'-6"	32'-11 1/2"
12	2 Ton	8'-18.4"	1 1/2"	8 1/2"	3 1/2"	8"	3 1/2"	11'-0"	2 1/2"	19'-9"	22'-11 1/2"
14	3 Ton	10'-25.4"	1 1/2"	10 1/2"	3 1/2"	8 1/2"	3 1/2"	8'-8"	2 1/2"	19'-6"	22'-11 1/2"
15	3 Ton	10'-25.4"	1 1/2"	10 1/2"	3 1/2"	8 1/2"	3 1/2"	8'-8"	2 1/2"	19'-6"	22'-11 1/2"

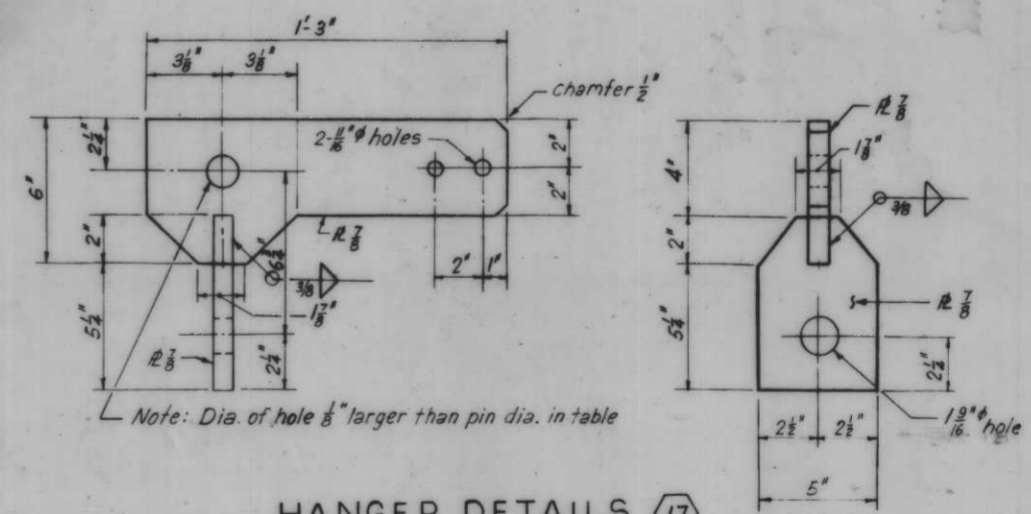
* Note: Gates 6 & 8 have no removable beams.
 Ⓞ Note: These dimensions subject to variation with trolley used.



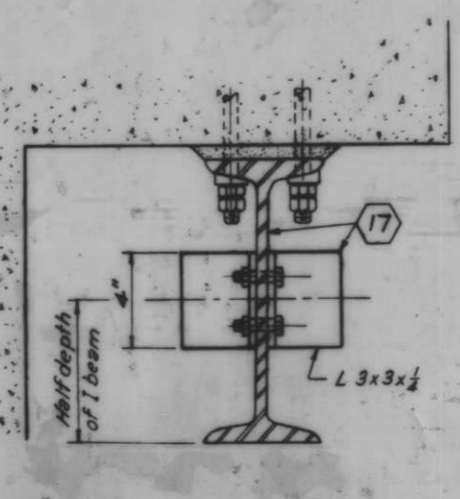
FLOOD SIDE ELEVATION OF TROLLEYS



FLOOD SIDE ELEVATION OF HANGER

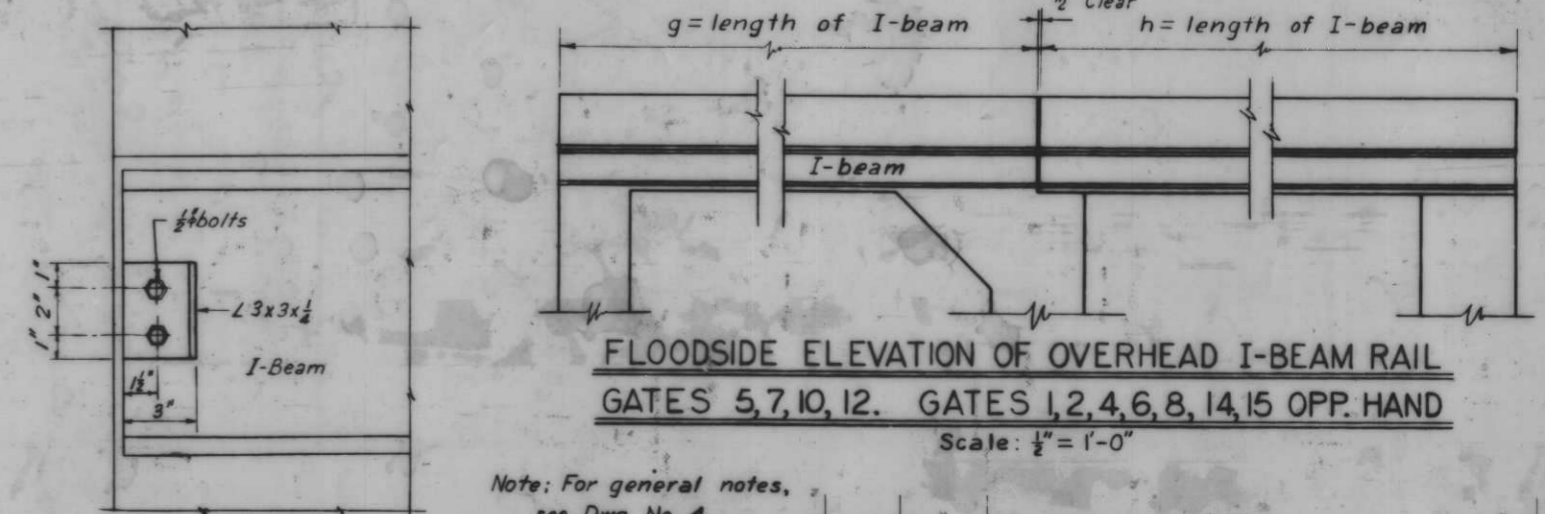


HANGER DETAILS



TYPICAL TROLLEY STOP (STOP AT BOTH ENDS OF I-BEAMS)

Scale: 3" = 1'-0"



FLOODSIDE ELEVATION OF OVERHEAD I-BEAM RAIL GATES 5, 7, 10, 12. GATES 1, 2, 4, 6, 8, 14, 15 OPP. HAND

Scale: 1/2" = 1'-0"

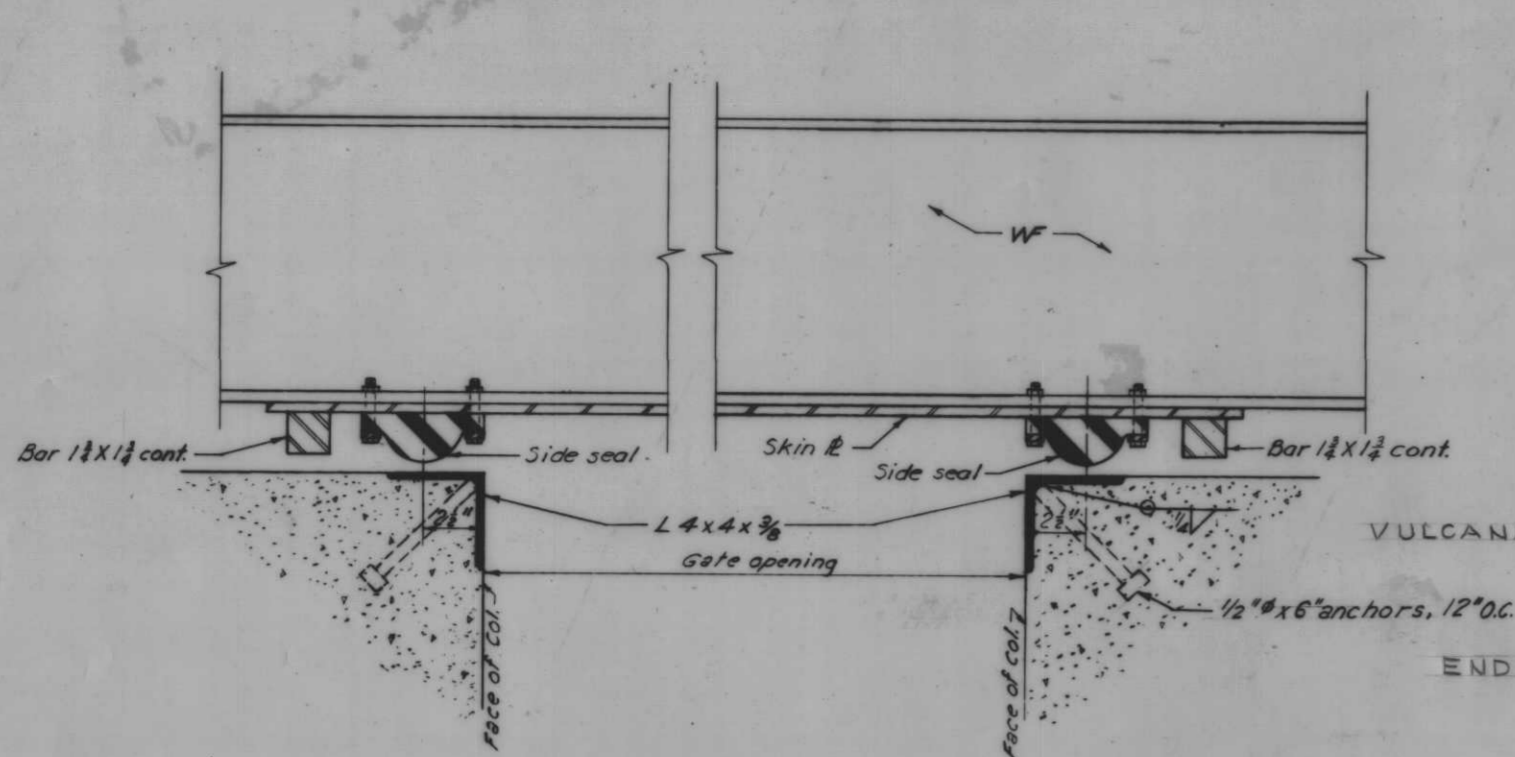
Note: For general notes, see Dwg. No. 4.

AS CONSTRUCTED

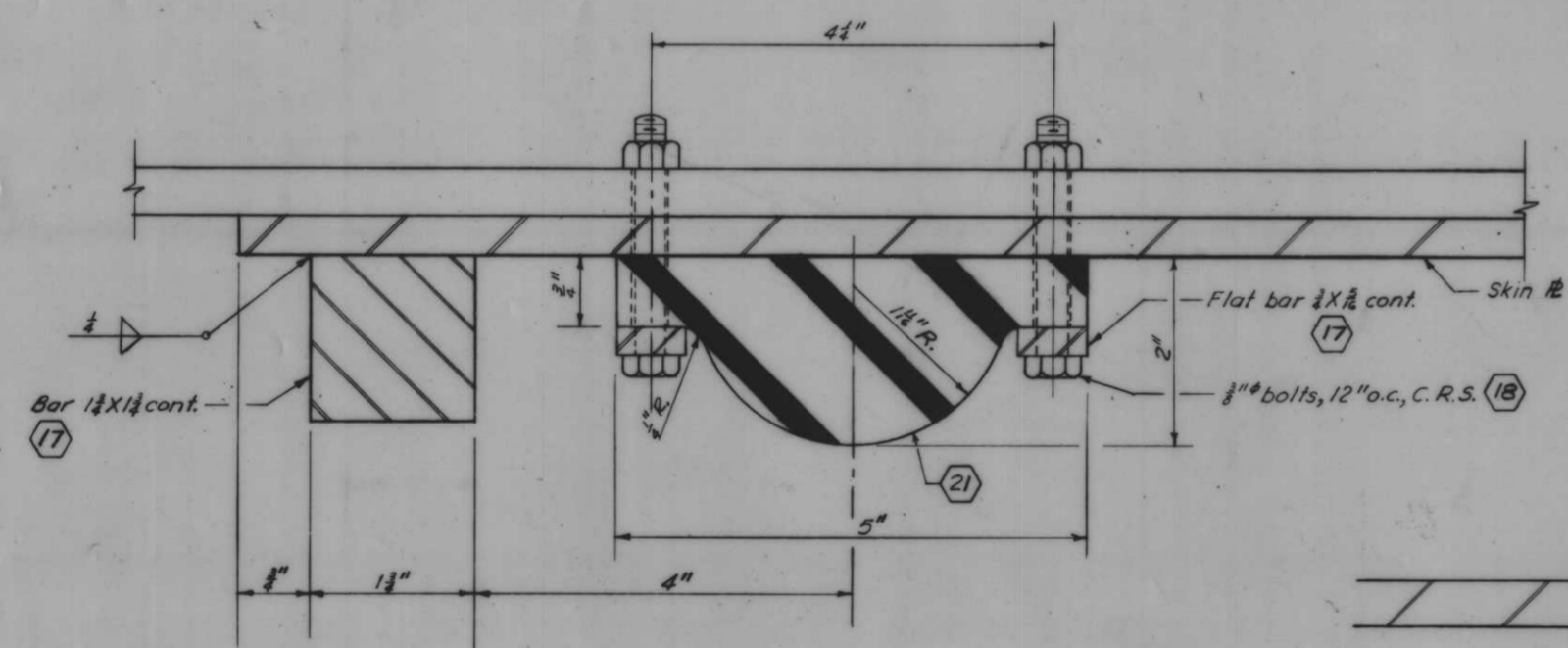
OVERHEAD ROLLER GATES TROLLEY AND HANGER DETAILS

REVISION	DATE	CHECKED	DESCRIPTION
N.L.B.	E.J.C.	H.U.	H-4-24263

DATE: _____ SCALE: SHOWN SPEC. NO. DACHES: _____ DWG. NO. 74 OF 78



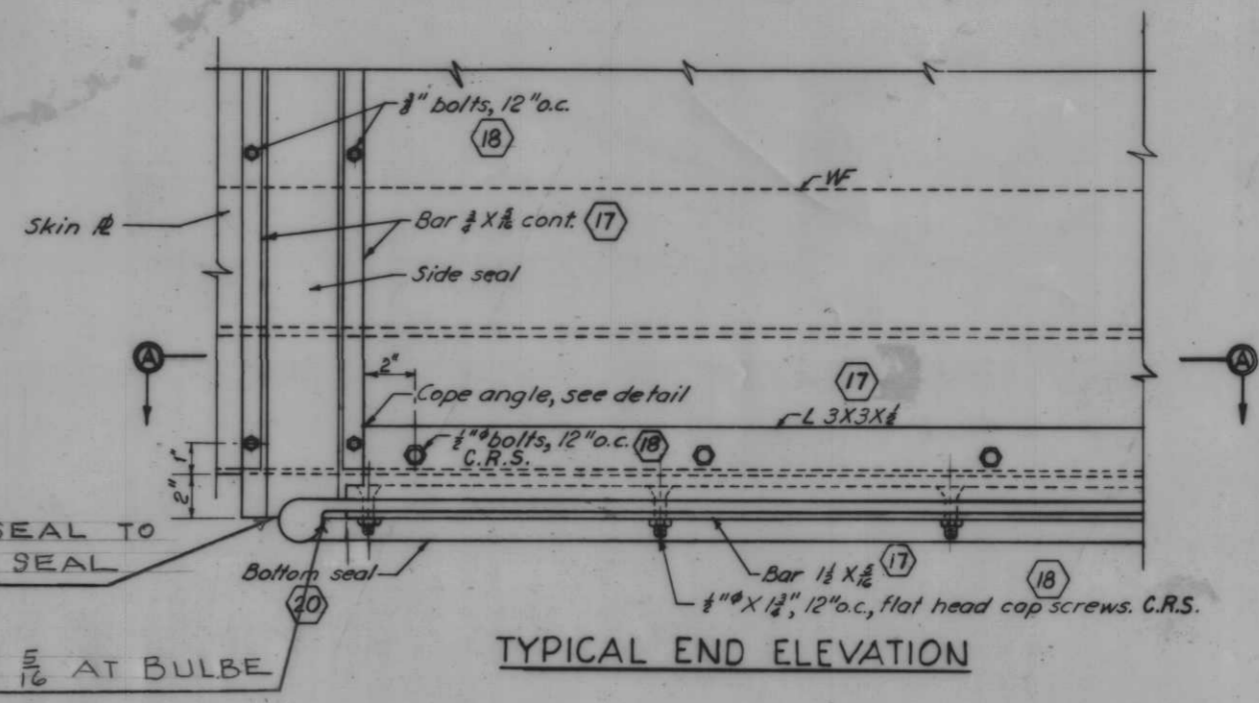
SECTION THRU OVERHEAD ROLLER GATE
Scale: 3"=1'-0"



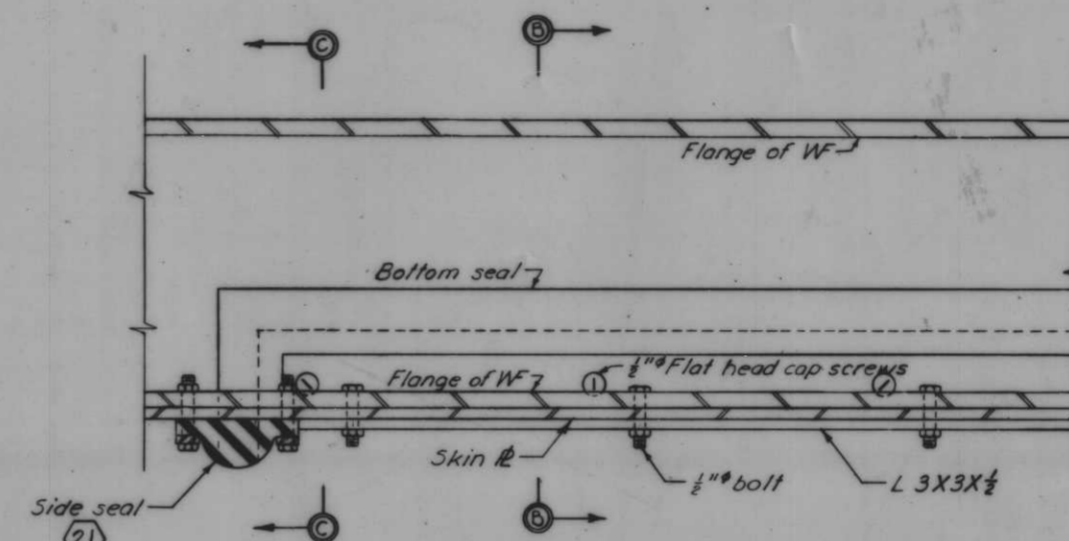
TYPICAL SIDE SEAL
Scale: Full Size

VULCANIZE SIDE SEAL TO
BOTTOM SEAL

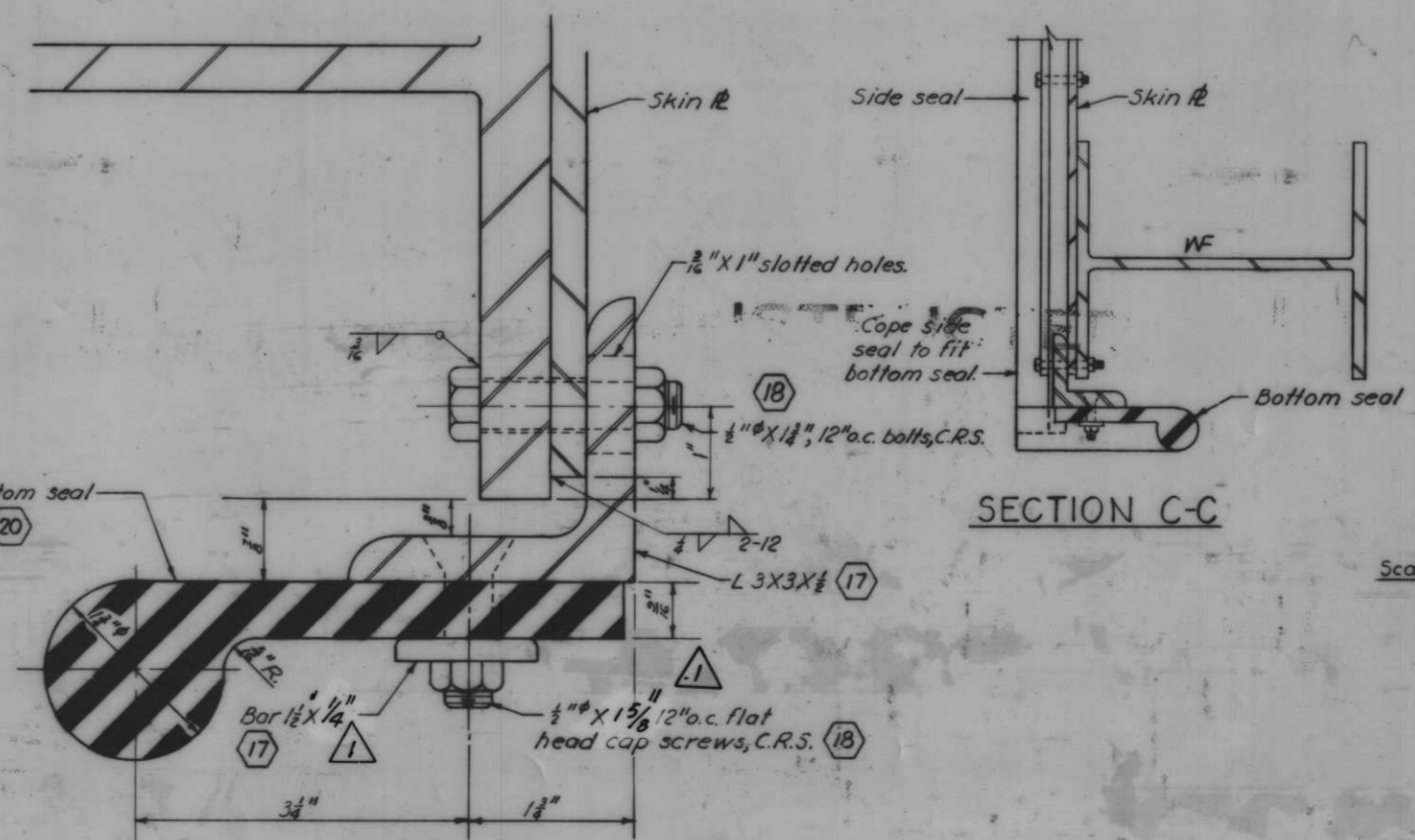
END BAR 1 1/2 x 1/4 AT BULBE



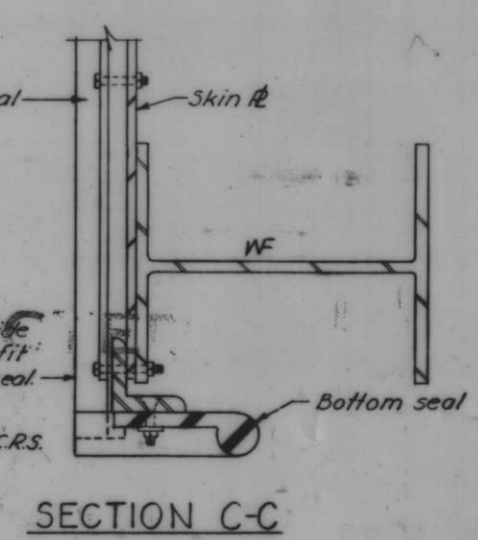
TYPICAL END ELEVATION



SECTION A-A
Scale: 3"=1'-0"

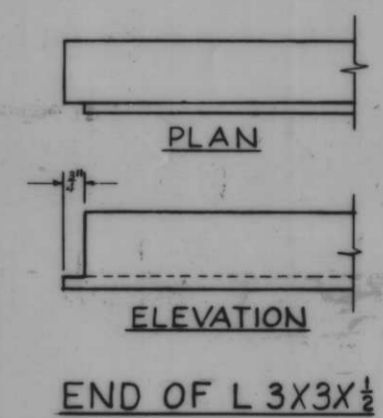


SECTION B-B
Scale: Full Size



SECTION C-C

Scale: 3"=1'-0"



Note: Set seal for 1/8\"/>

Note: For general notes, see Dwg. No. 4

AS CONSTRUCTED

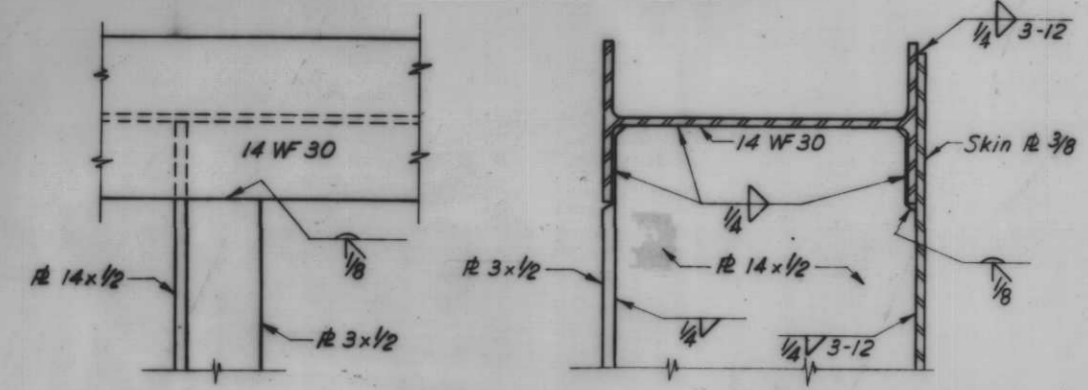
DESIGNED	DRAWN	CHECKED	CODE IDENT. NO.	SIZE	FILE NO.
D.A.M.	C.E.M.	J.S.H.			
DATE: _____ SCALE: SHOWN SPEC. NO. DACWS- _____ DWS. NO. 75 OF 78					

OVERHEAD ROLLER GATES-SEALS

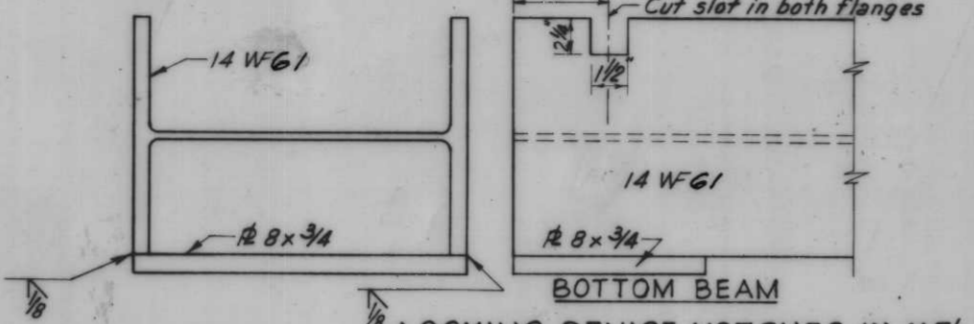
17 18 20 21

H-4-24263

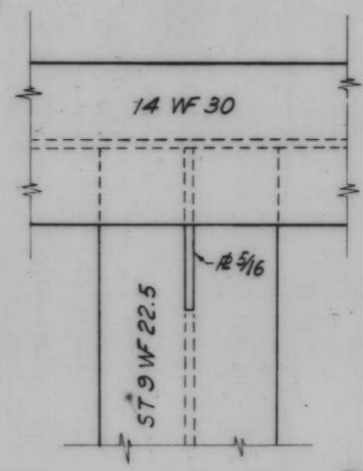
GATE NO.	GAP CLOSURE	SILL EL. "A"	A	B	C
3	RAILROAD	4.2	8'-10 3/4"	2'-11"	2'-11"
11	RAILROAD	2.0	11'-1 1/8"	3'-8"	3'-8"
13	RAILROAD	5.1	8'-0"	4'-0"	—



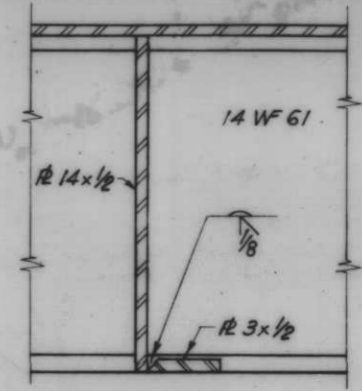
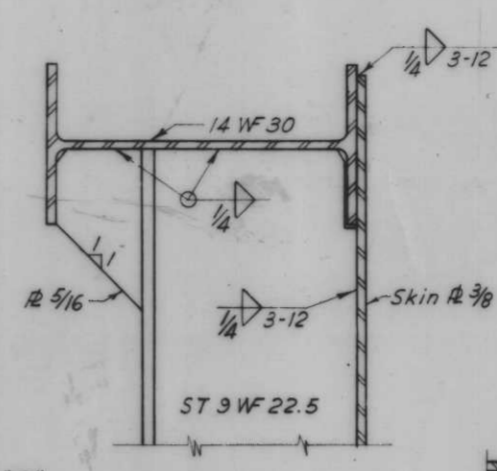
DETAIL "A"



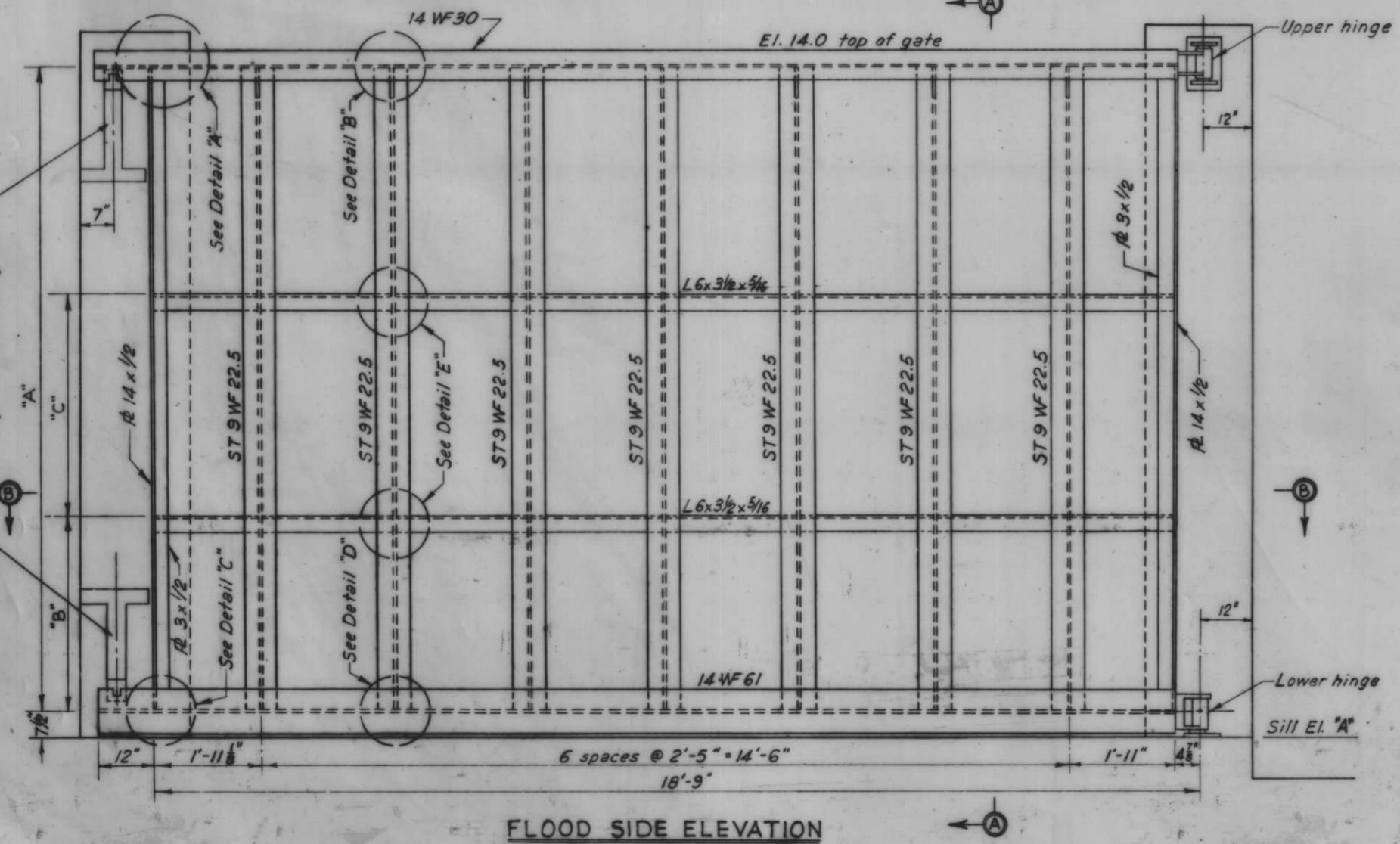
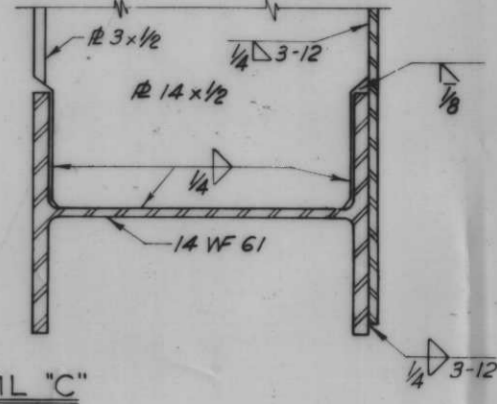
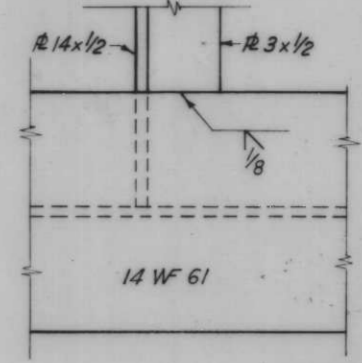
LOCKING DEVICE NOTCHES IN WF'S
Scale 3" = 1'-0"



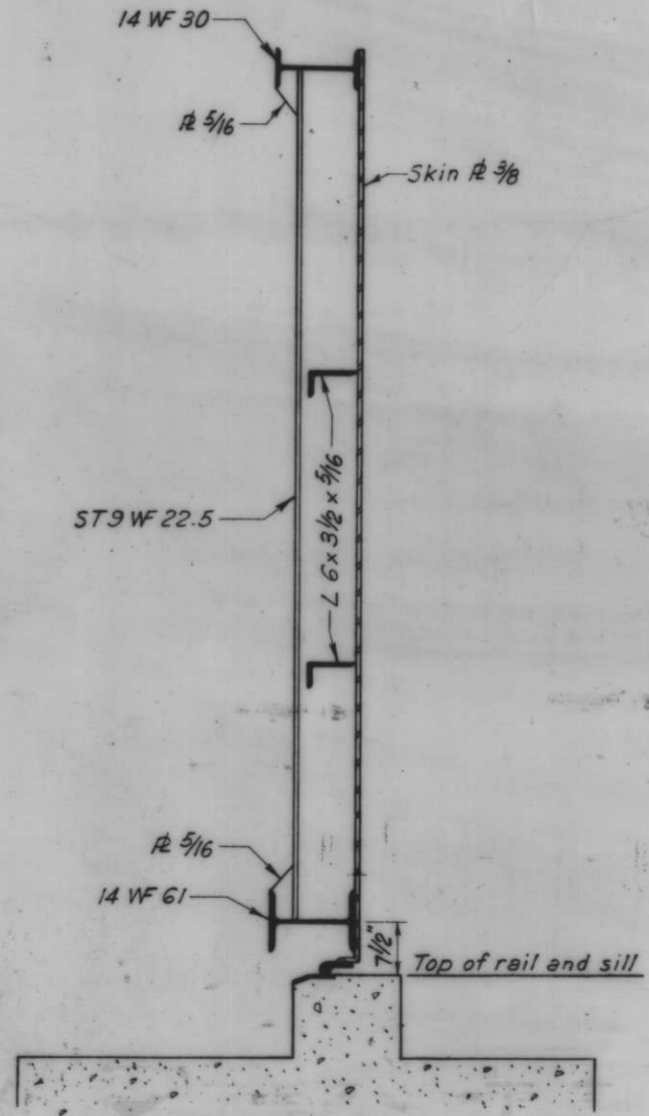
DETAIL "B"



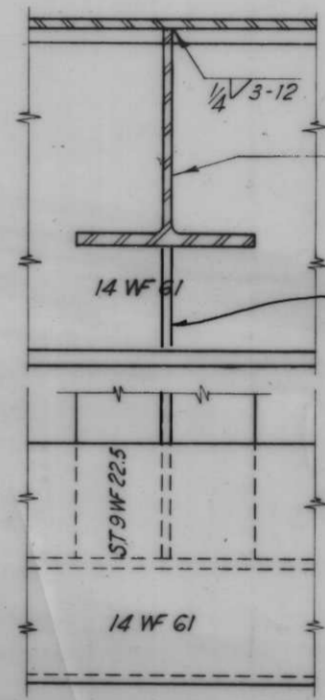
DETAIL "C"



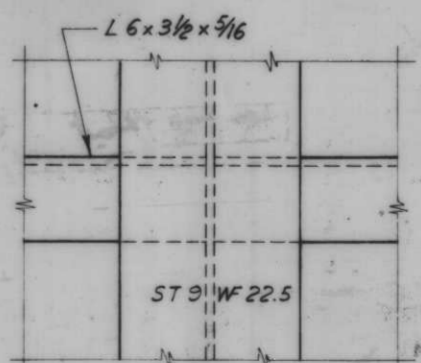
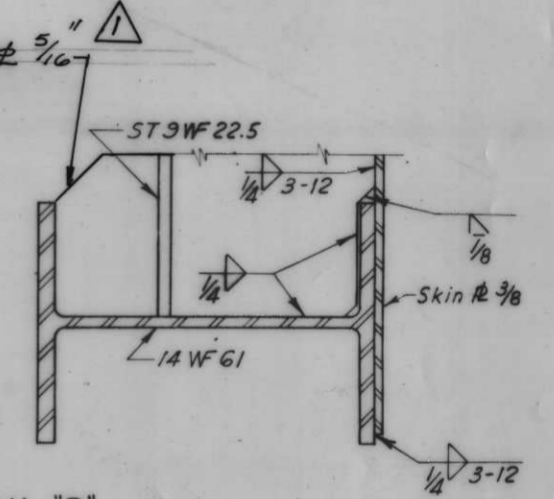
FLOOD SIDE ELEVATION



SECTION A-A



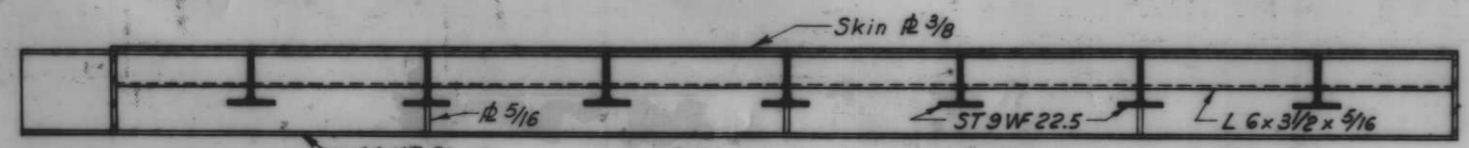
DETAIL "D"



DETAIL "E"

Scale 3" = 1'-0"

Note: All work on this drawing will be paid for at contract price item 17
For general notes, see Dwg. No. 4



SECTION B-B

Scale 3/4" = 1'-0"

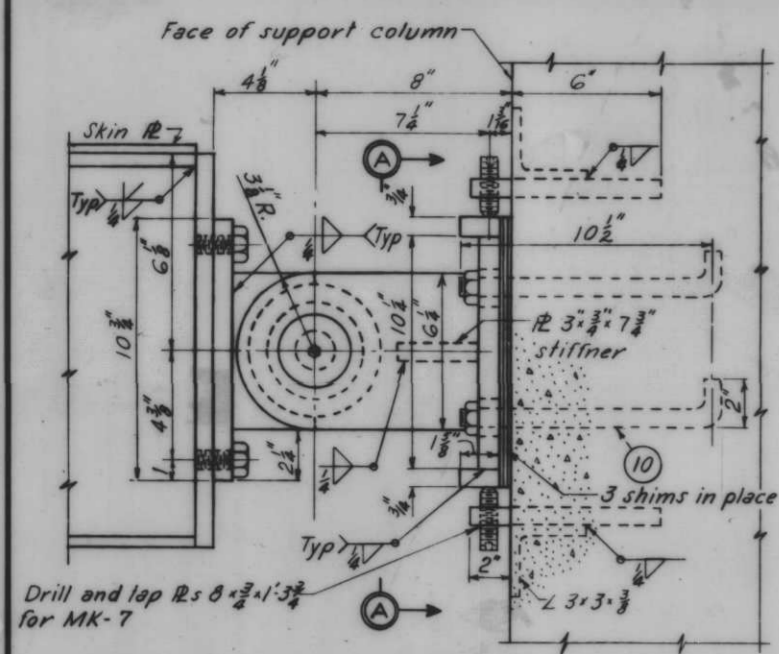
AS CONSTRUCTED

SWING GATES-GATES 3, 11 AND 13

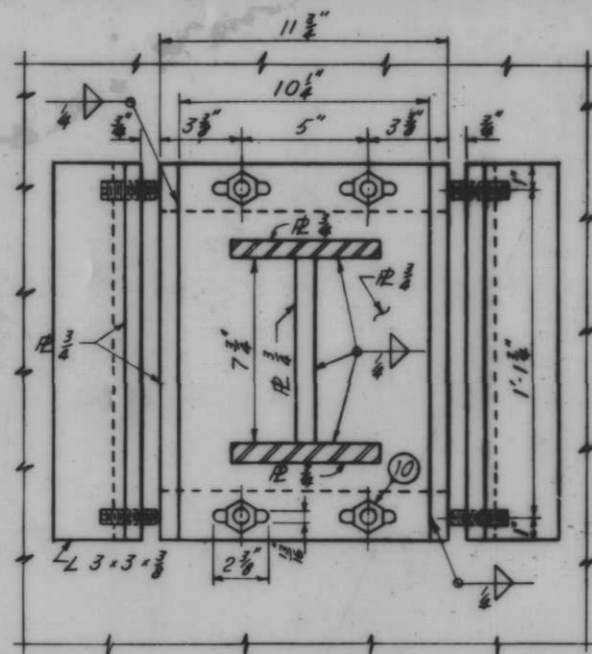
REVISION	DATE	CHECKED	CODE IDENT. NO.	SIZE	FILE NO.	BY
1	12-2-68	ADJ.	BEAM ADDED 5/16 R DET. "D"			
DESIGNED:	D.A.M.	DRAWN:	E.M.	CHECKED:	J.S.H.	

H-4-24263

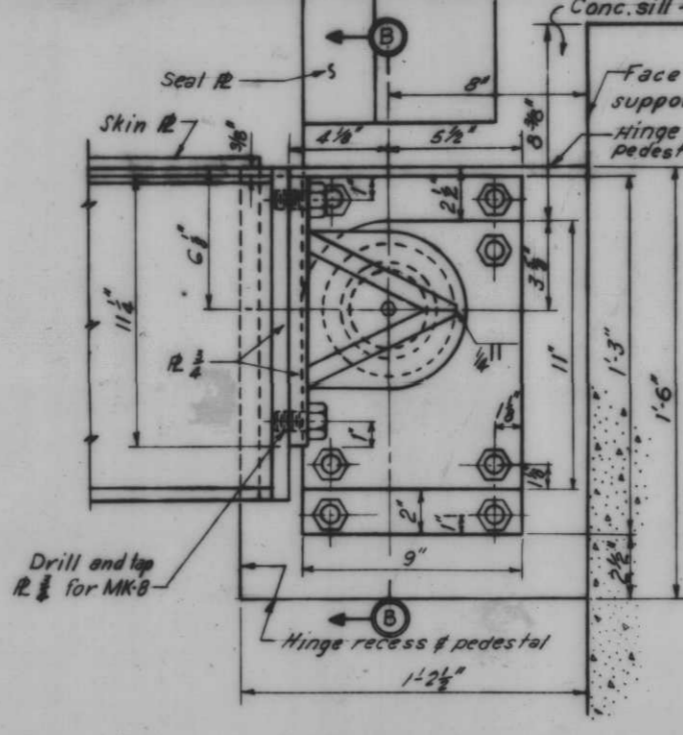
DATE: _____ SCALE: SHOWN _____ SPEC. NO. DAWES: _____ DWG. NO. 76 OF 78



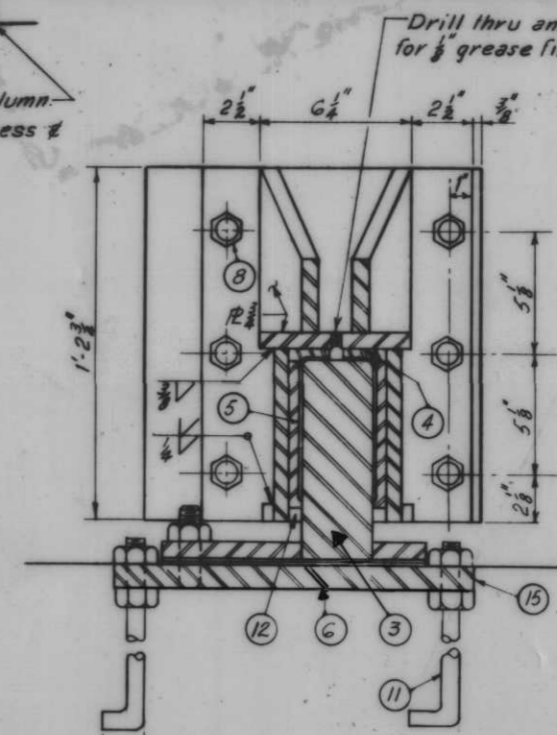
PLAN
Scale 3"-1'-0"



SECTION A-A

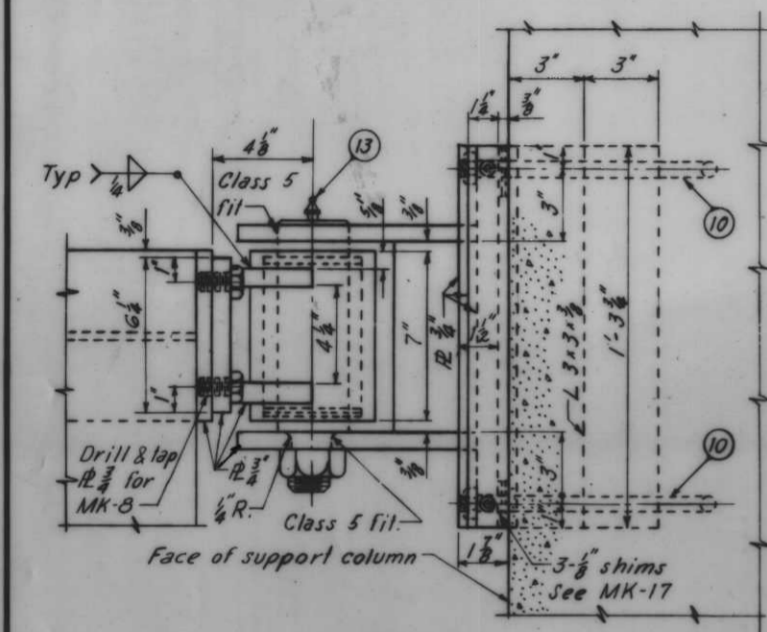


PLAN
Scale 3"-1'-0"

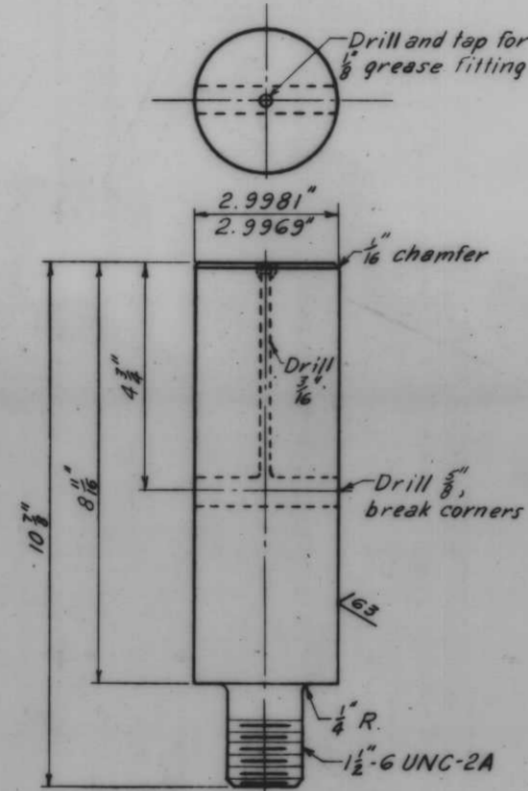


SECTION B-B

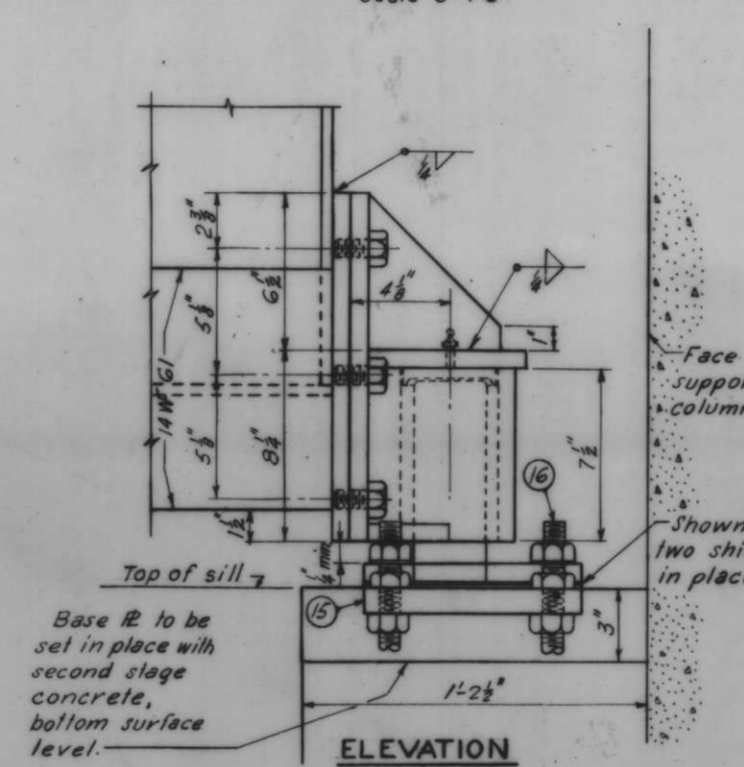
PARTS NOT DETAILED				
MARK NO.	QUANTITY	DESCRIPTION	MATERIAL	
7	8	Set screw, hexagon socket, 3/8" x 2 1/2" class 3A, flat point.	C.R.S.	
8	20	Cap screw, hex. hd., 3/8"-10UNC-2A, 1 1/2" long w/flat washer.	C.R.S.	
9	4	Nut, hex. hd., 1 1/2"-6 UNC-2B type 2 style B w/flat washer.	C.R.S.	
10	8	Anchor bolt, 3/4" x 10 1/2" w/nut and flat washer.	Structural steel	
11	8	Anchor bolt, 3/4" x 30" w/nuts and flat washers.	Structural steel	
12	8	Grease seal, Garlock Standard Klosure No. 2176 or equal.	Comm. grade	
13	4	Grease filling, 3/8" NPT type.	Comm. grade	
14	2'-6"	Mechanical luting, 5/8" O.D. x 1/4" I.D. machined for class 6 fit between I.D. of luting and O.D. of bushing.	AISI C1015	
16	6	Stud, 3/4"-10 UNC-2A x 4 1/2" lg.	C.R.S.	



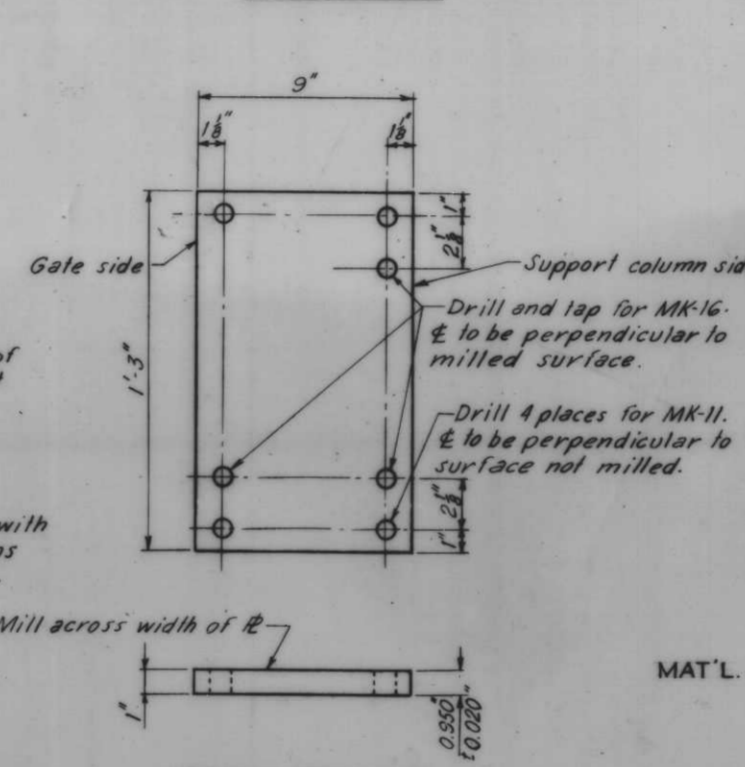
ELEVATION



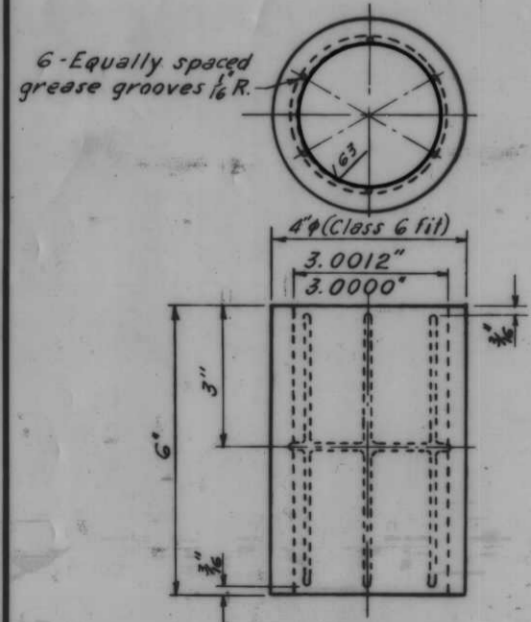
BUSHING SHAFT MK-1
MAT'L ASTM A 237-G3T CLASS C 2-REQ'D.
Scale 6"-1'-0"



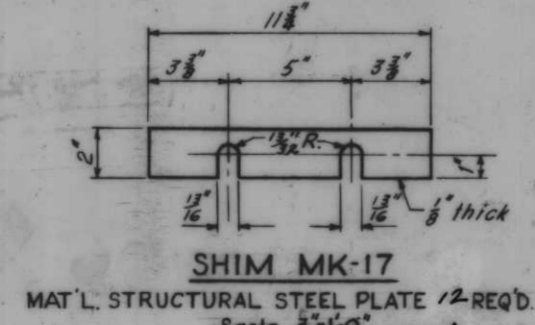
ELEVATION



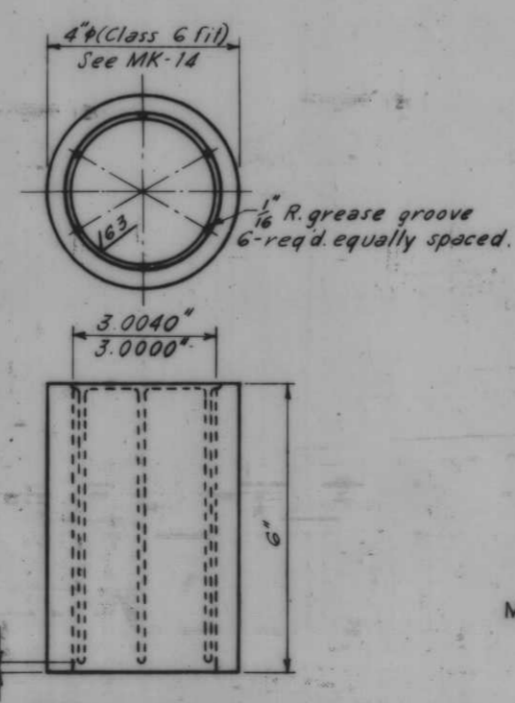
BASE PLATE MK-15
MAT'L. 1" STRUCTURAL STEEL 2-REQ'D.
Scale 3"-1'-0"



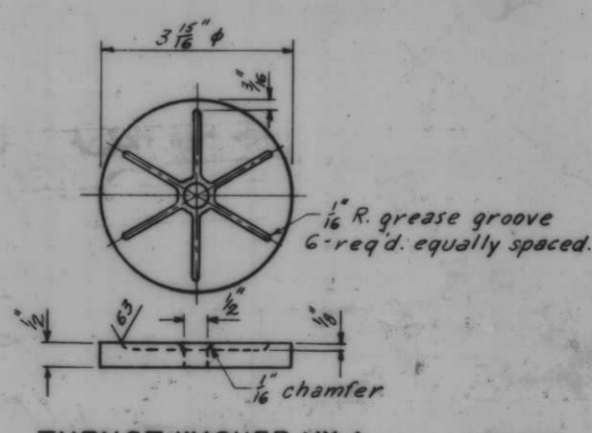
BUSHING MK-2
MAT'L. ASTM-B22-61 ALLOY C 2-REQ'D.
Scale 6"-1'-0"



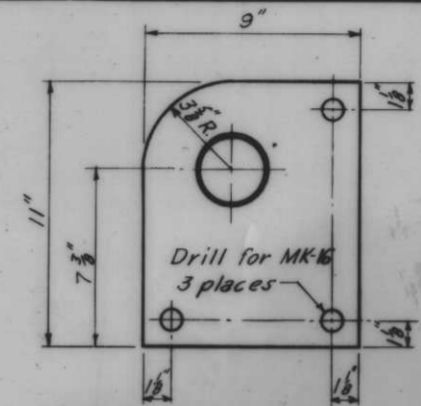
SHIM MK-17
MAT'L. STRUCTURAL STEEL PLATE 1/2-REQ'D.
Scale 3"-1'-0"



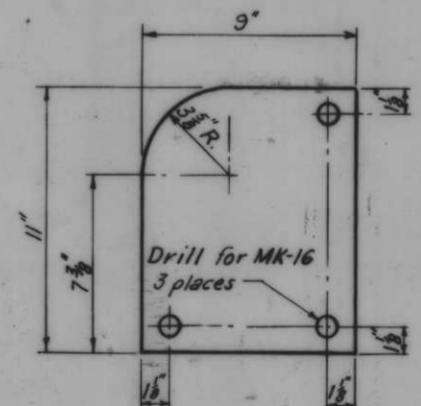
BUSHING MK-5
MAT'L. ASTM-B-22-61 ALLOY C 2-REQ'D.
Scale 6"-1'-0"



THRUST WASHER MK-4
MAT'L. ASTM-B-22-61 ALLOY C 2-REQ'D.
Scale 6"-1'-0"



BEARING PEDESTAL MK-3
MAT'L. SHAFT ASTM A 237-G3T CLASS C 2-REQ'D.
BASE STRUCTURAL STEEL
Scale 3"-1'-0"



SHIM MK-6
MAT'L. 3/8" STEEL PLATE 1/2-REQ'D.
Scale 3"-1'-0"

Note:
Quantities shown are for two assemblies.
All work on this Dwg. will be paid for at contract price item 18.

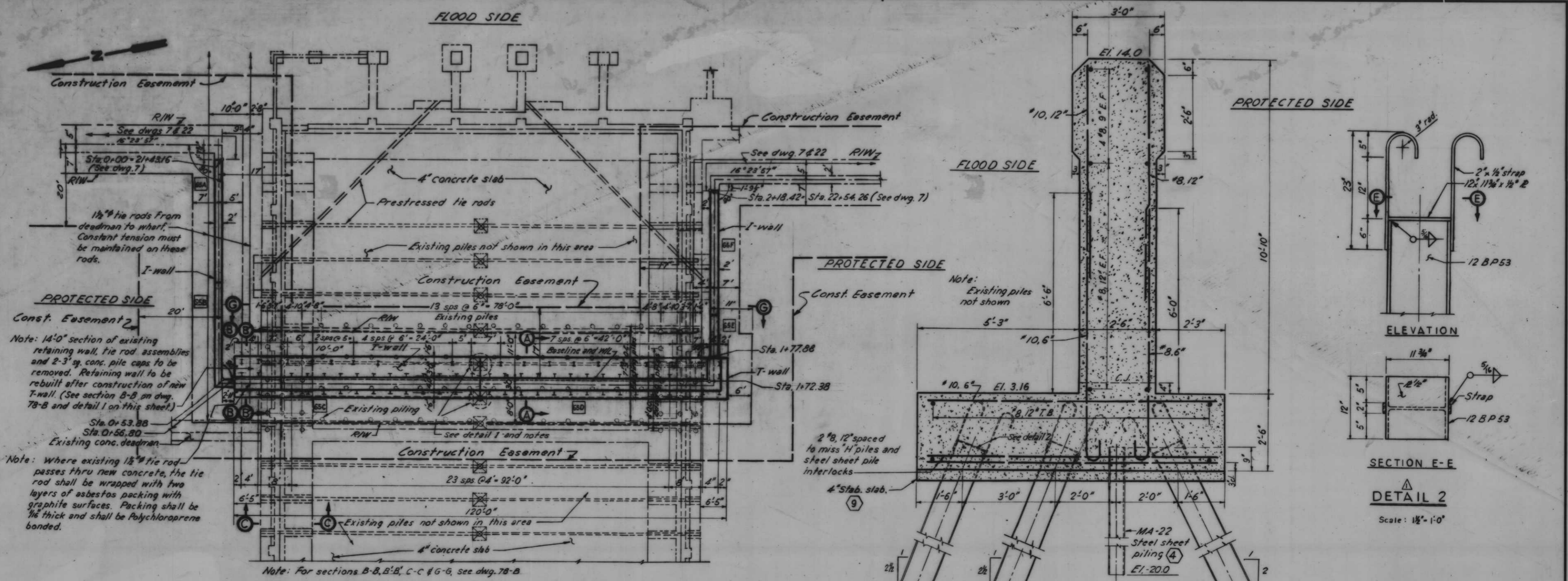
UPPER HINGE

LOWER HINGE

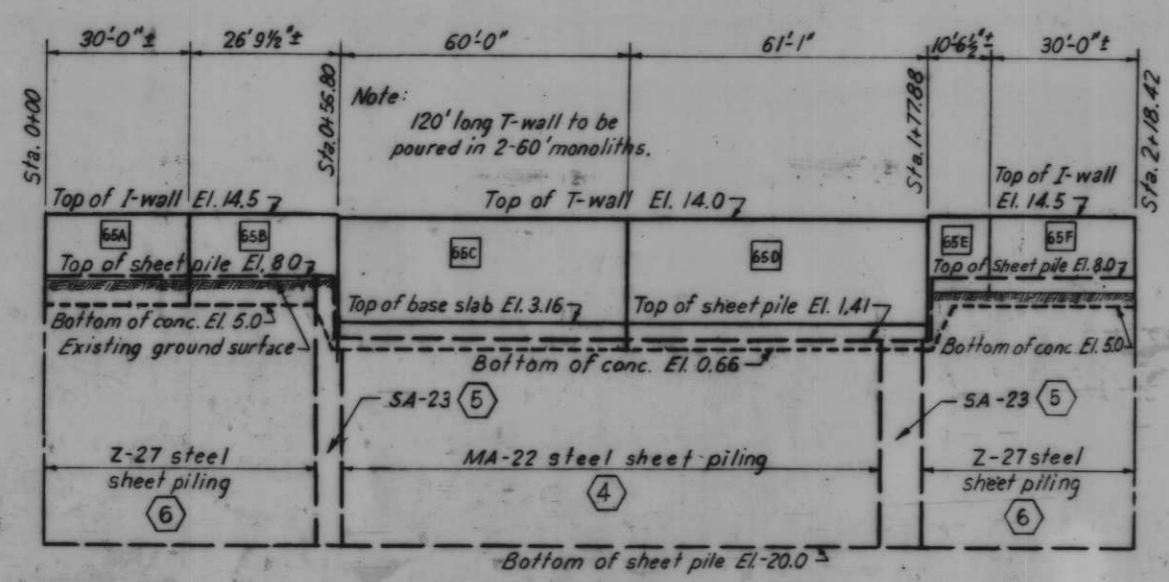
AS CONSTRUCTED

SWING GATES-HINGE DETAILS

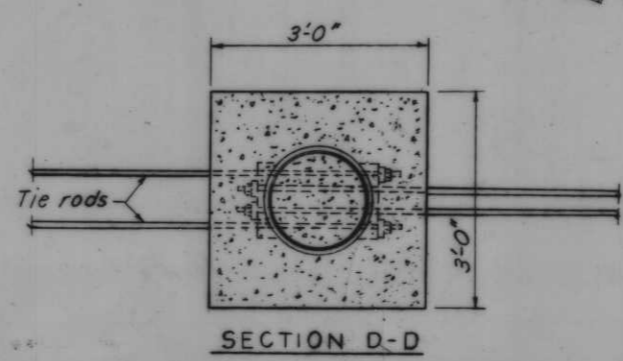
12.2.68 REDUCE ASSEMBLIES FROM 3 TO 2				
REVISION	DATE	DESCRIPTION	BY	
DESIGNED	DRAWN	CHECKED	CODE IDENT. NO.	FILE NO.
W.A.W.	D.J.H.	W.A.W.		H-4-24263
DATE:	SCALE: SHOWN	SPEC. NO. DACTOS:	DWG. NO. 77 OF 78	



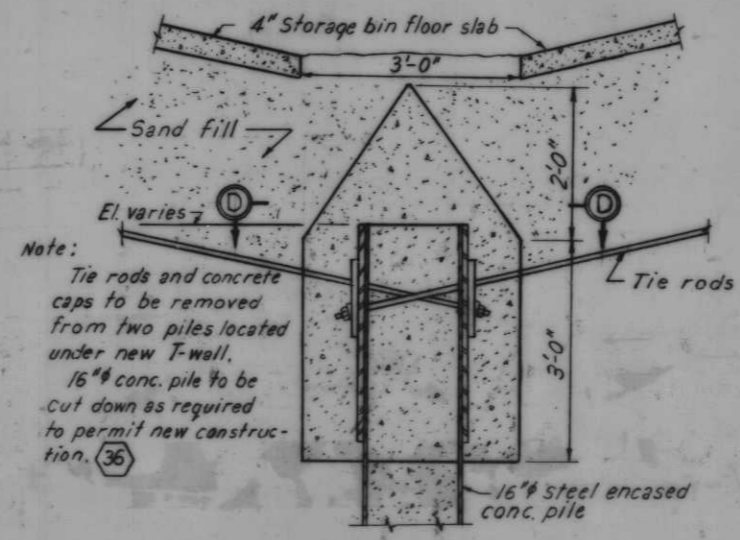
PLAN
LONE STAR CEMENT COMPANY
ROCK STORAGE BIN
 Scale: 1" = 10'



PROFILE
 Scale: Hor. 1" = 20'
 Vert. 1" = 10'



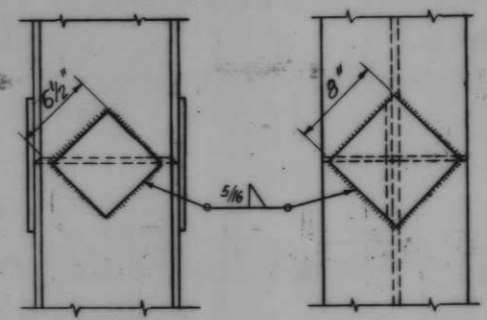
SECTION D-D



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

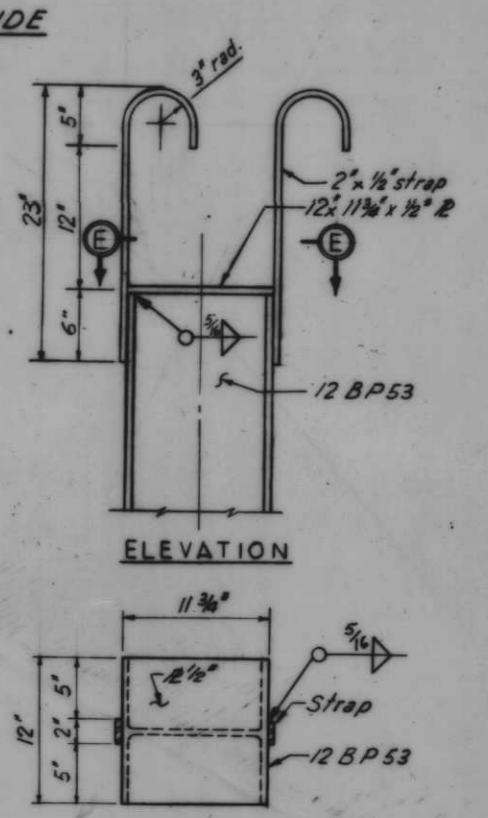
EXISTING CONNECTION OF TIE RODS TO CONCRETE PILE

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



SPLICE DETAILS
'H' BEARING PILES
 Scale: 1 1/2" = 1'-0"

Note: For general notes, see dwg. 4



ELEVATION
SECTION E-E
 Scale: 1 1/2" = 1'-0"

NOTES:

Where existing concrete structures are to be removed to facilitate new construction, they shall be cut along a neat line and 3'-0" of exposed reinforcing shall be allowed for lapping with new bars. The concrete shall be replaced as indicated on the drawings and to the same dimensions as the existing.

Where existing floor slabs in the bin are removed to facilitate new construction, they shall be replaced as stated above. The sand fill between the slabs shall be of like quality and compaction to that which exists.

Where the rock storage bin superstructure would interfere with the driving of full length "H" piles, the piles may be driven in shorter sections and spliced as detailed. A maximum of two splices per pile will be permitted.

The work shall be accomplished with the removal of only those portions of the superstructure so described on the drawings. Subsequent to new construction the superstructure and attachments shall be restored to their original condition.

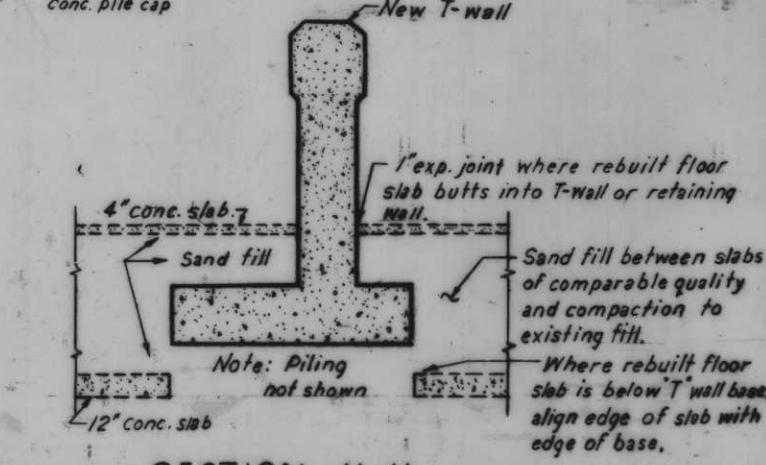
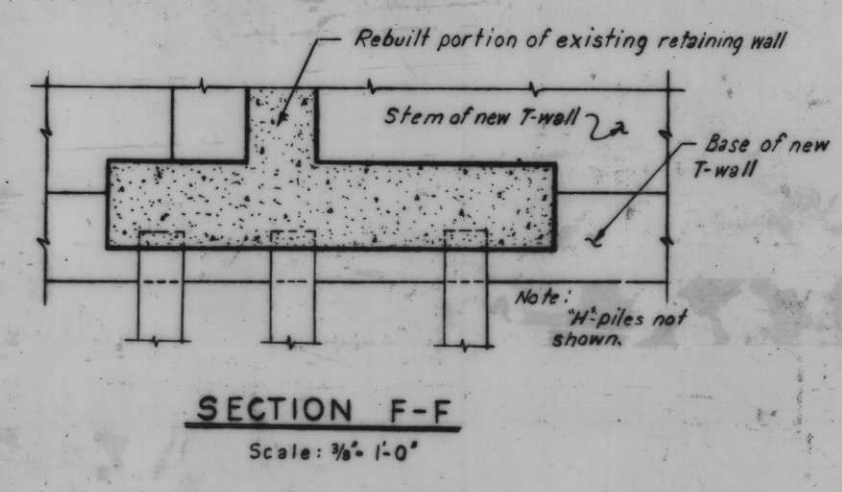
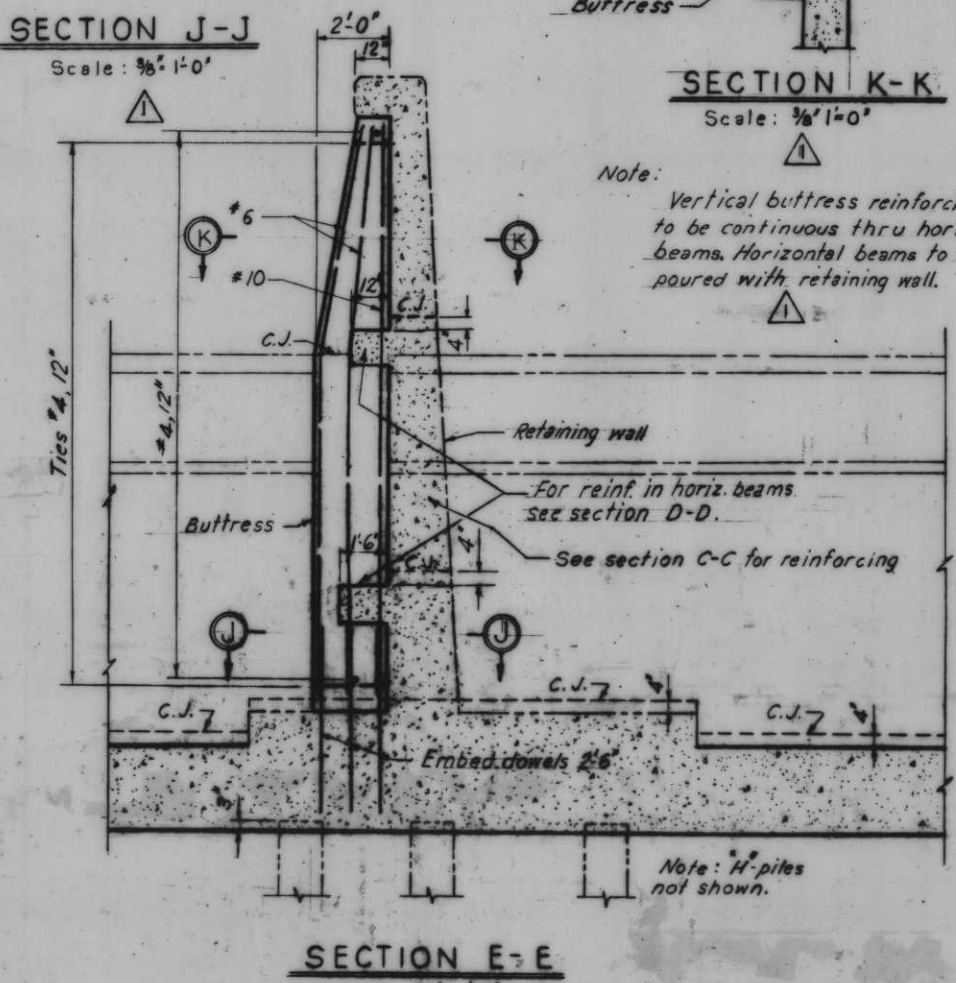
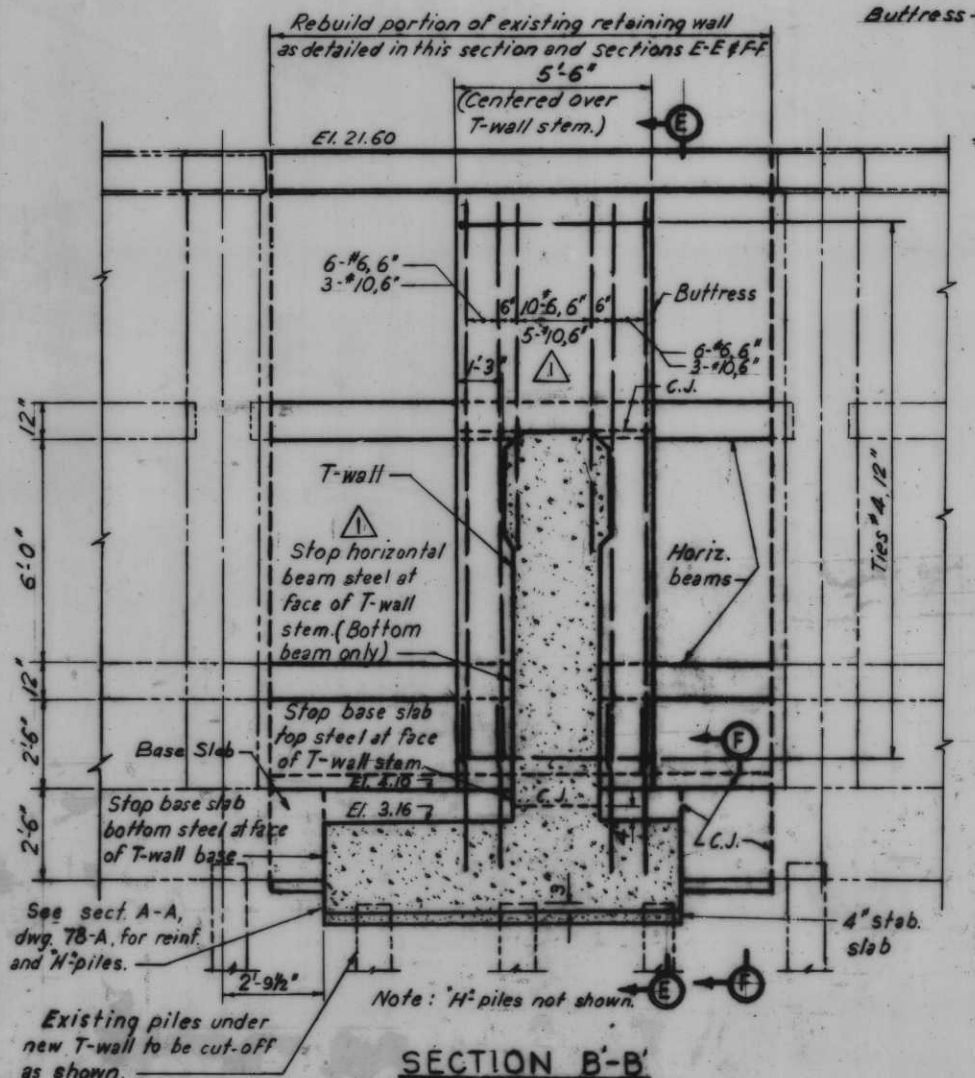
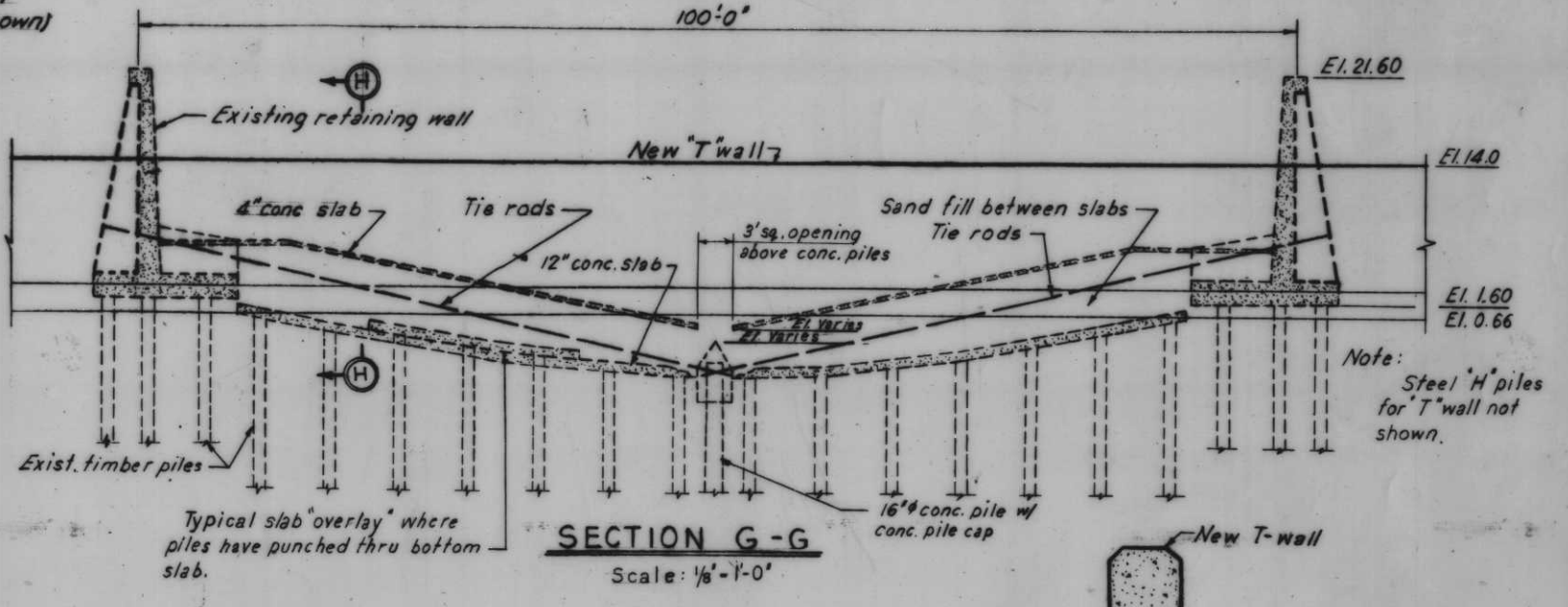
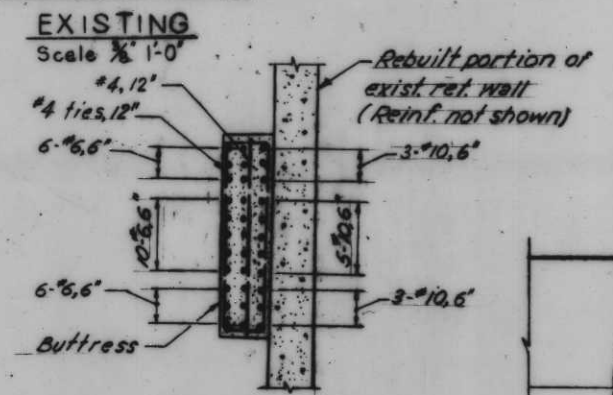
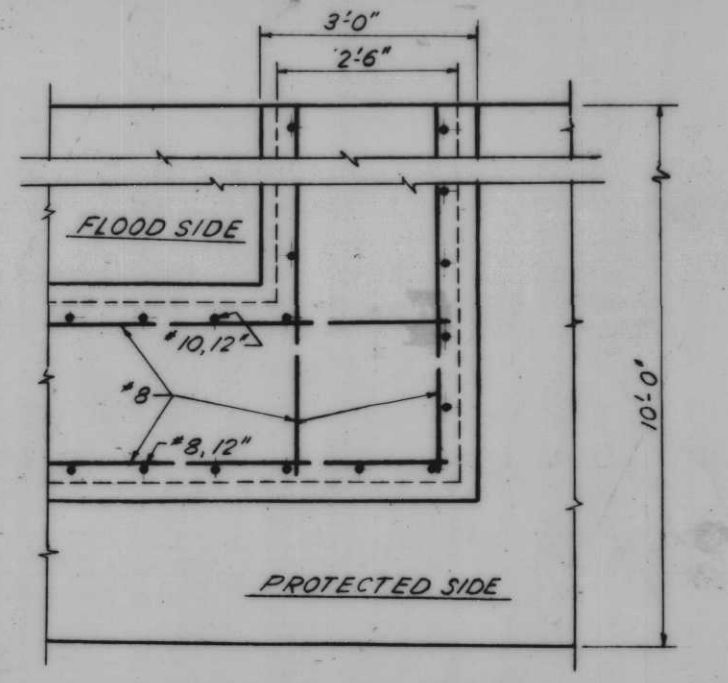
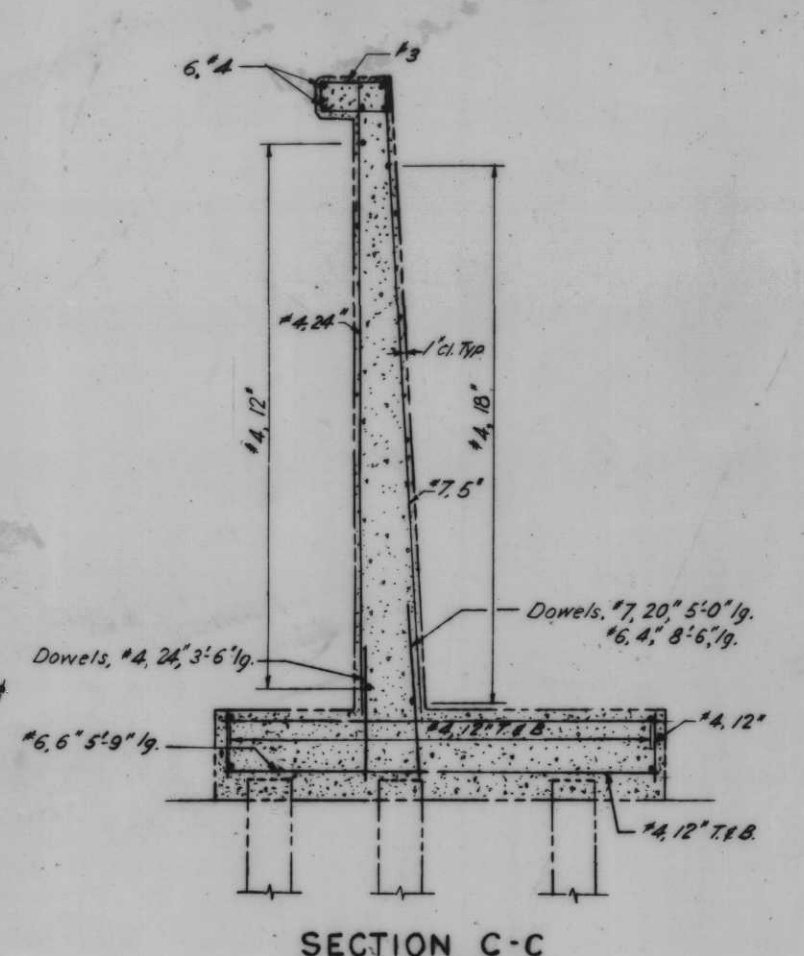
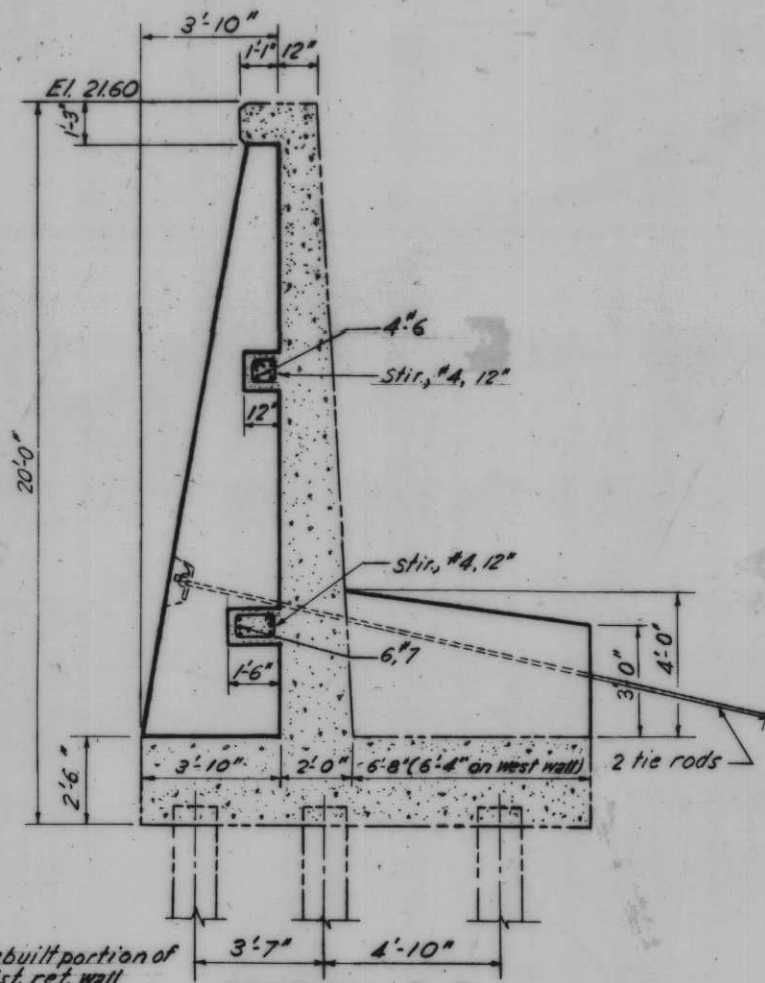
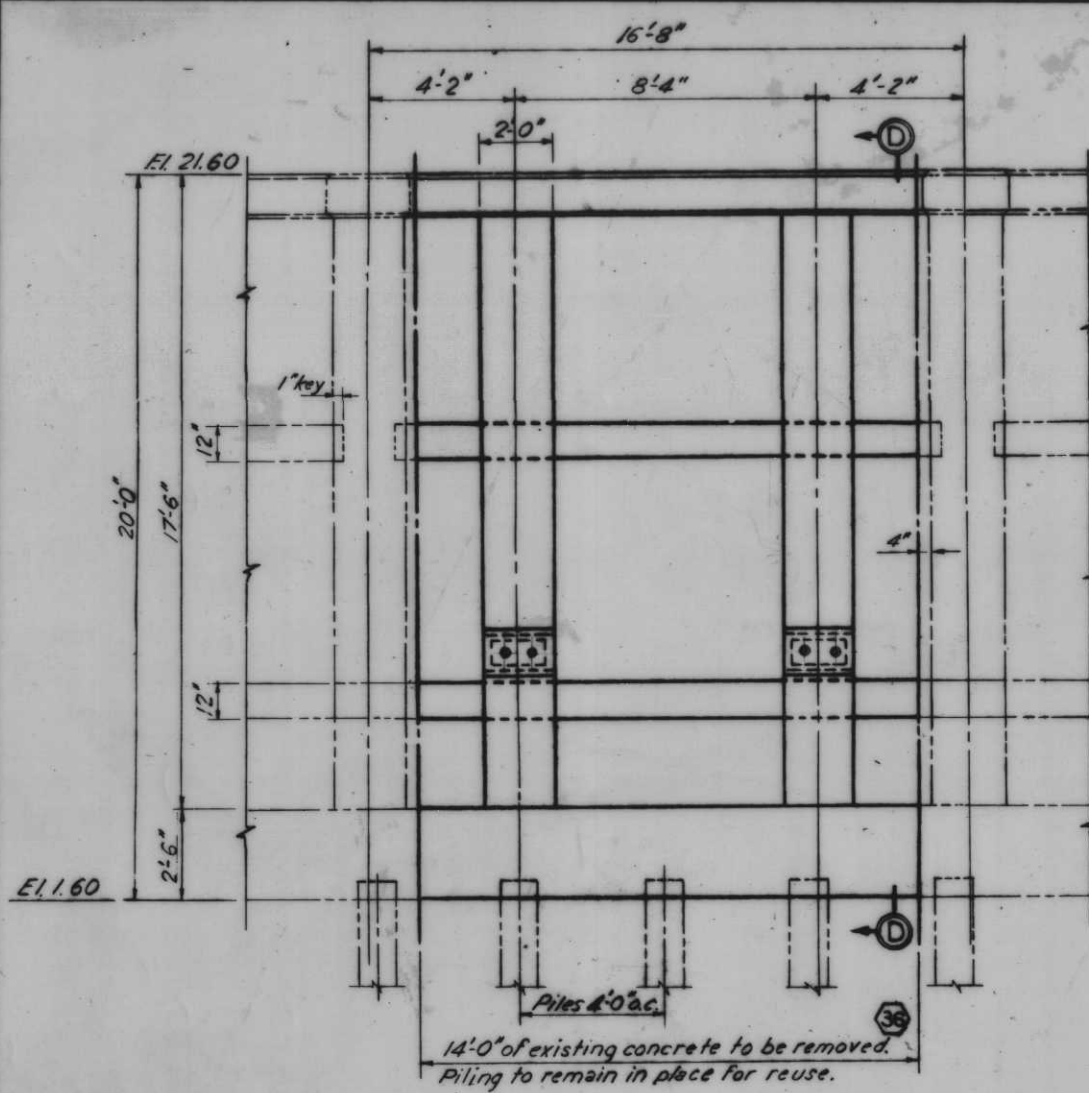
SEQUENCE OF CONSTRUCTION

- 1 Cut 14'-0" opening in existing structures (retaining walls, slabs, tie rods, conveyors, utilities, etc.) where new T-wall will be located.
- 2 Drive sheet piles and H-piles for T-wall and construct concrete T-wall thru rock storage bin.
- 3 Reconstruct existing structures to their original dimensions allowing for the presence of the new T-wall. See plans for further details. (Rapid completion of work inside the rock storage bin is essential for minimum down time of the bin.)
- 4 Drive sheet piles and construct new I-wall on each side of storage bin to tie in to new T-wall and existing I-wall.

REVISION	DATE	DESCRIPTION	E.J.C.
7-28-69		Added weld symbols in detail 2	
DESIGNED:	DRAWN:	CHECKED:	CODE IDENT. NO. SIZE FILE NO.
R.J.G.	E.J.C.	R.J.G.	
H-4-24263			
DATE:	SCALE SHOWN:	SPEC. NO. DAWSES:	DWG. NO. 78A OF 78

AS CONSTRUCTED

PLAN AND PROFILE - ROCK STORAGE BIN



Notes:
For general notes, see dwg. 4
For typical J-wall and T-wall corner, see dwg. 13
For location of sections, B-B, B'-B', C-C & G-G see plan dwg. 78-A

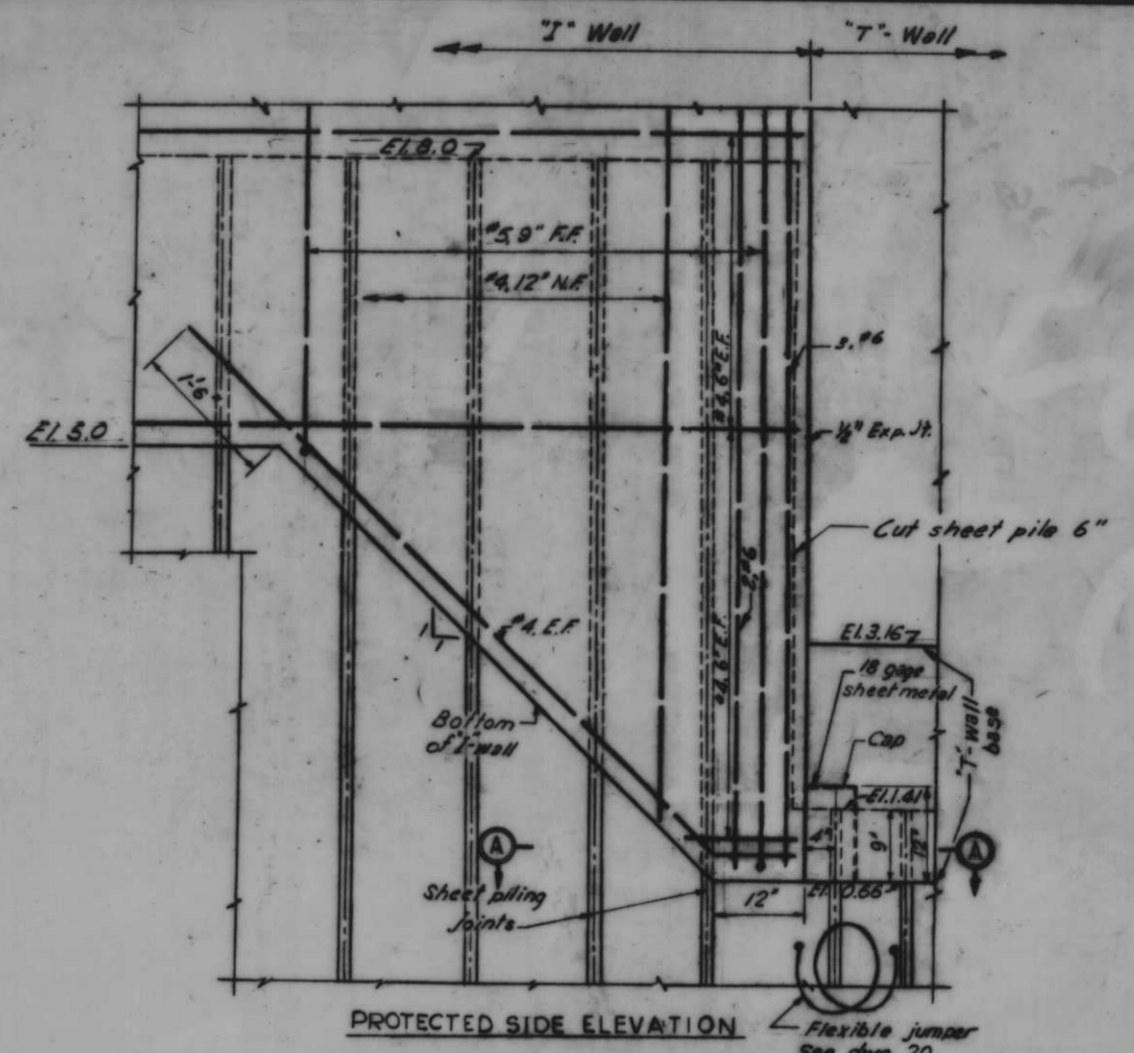
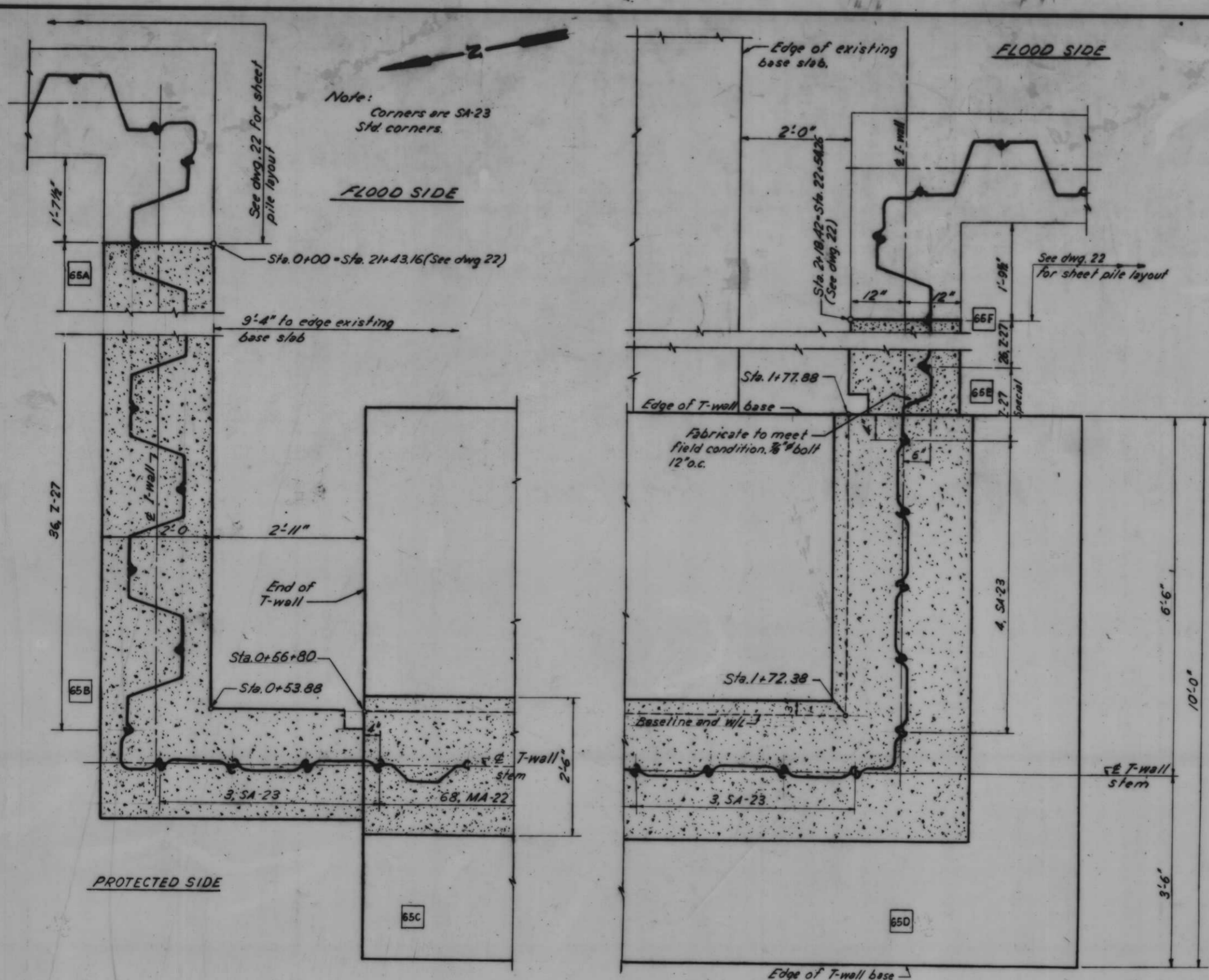
AS CONSTRUCTED

TYPICAL SECTIONS - ROCK STORAGE BIN

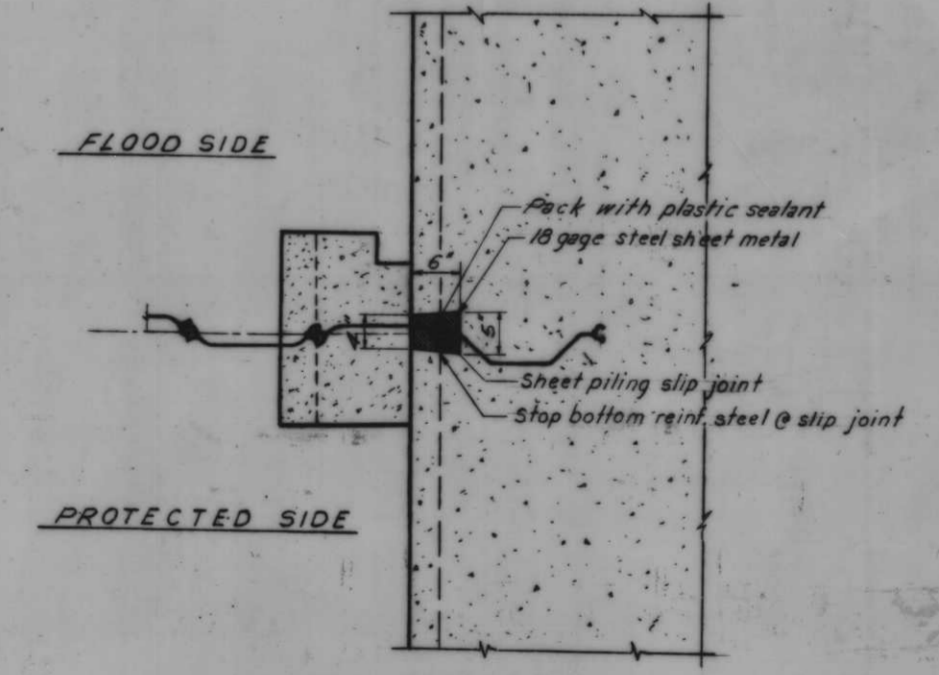
REVISION	DATE	DESCRIPTION	BY
1	9-17-69	Revised notes in section B-B', E-E and added sections J-J and K-K.	E.J.C.

DESIGNED: R.J.G. DRAWN: E.J.C. CHECKED: R.J.C. CODE IDENT. NO. SIZE FILE NO. **H-4-24263**

DATE: SCALE SHOWN SPEC. NO. BASIS: DWG. NO. 78 OF 78

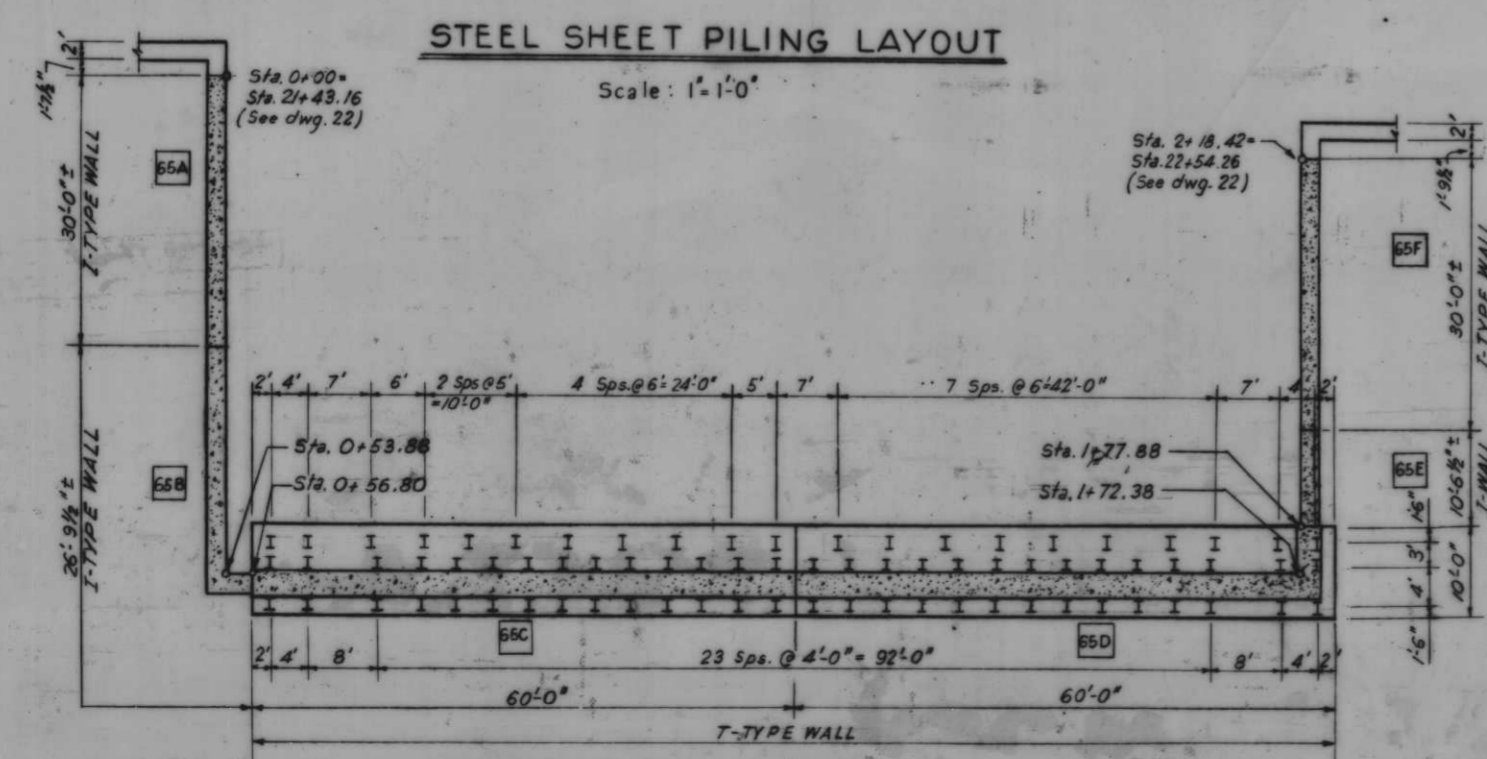


PROTECTED SIDE ELEVATION
 DETAIL OF TRANSITION FROM I-WALL
 TO T-WALL WHERE I-WALL BASE IS
 HIGHER THAN BOTTOM OF T-WALL BASE
 Scale: 1'-1'-0"



SECTION A-A
 Scale: 1'-1'-0"

Note:
 For general notes, see dwg. 4
 For typical I-wall section, see dwg. 13
 For typical T-wall section, see dwg. 78A
 For typical joint between I-wall and T-wall, see dwg. 78D



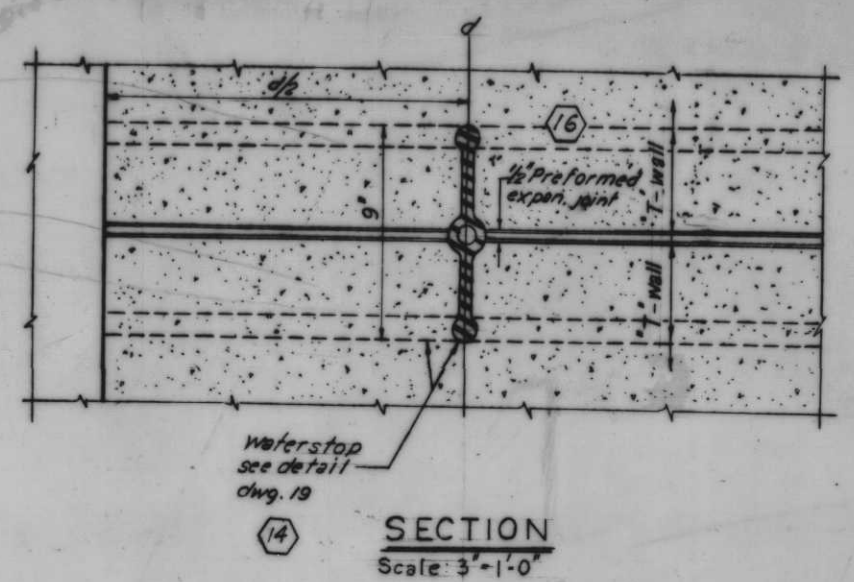
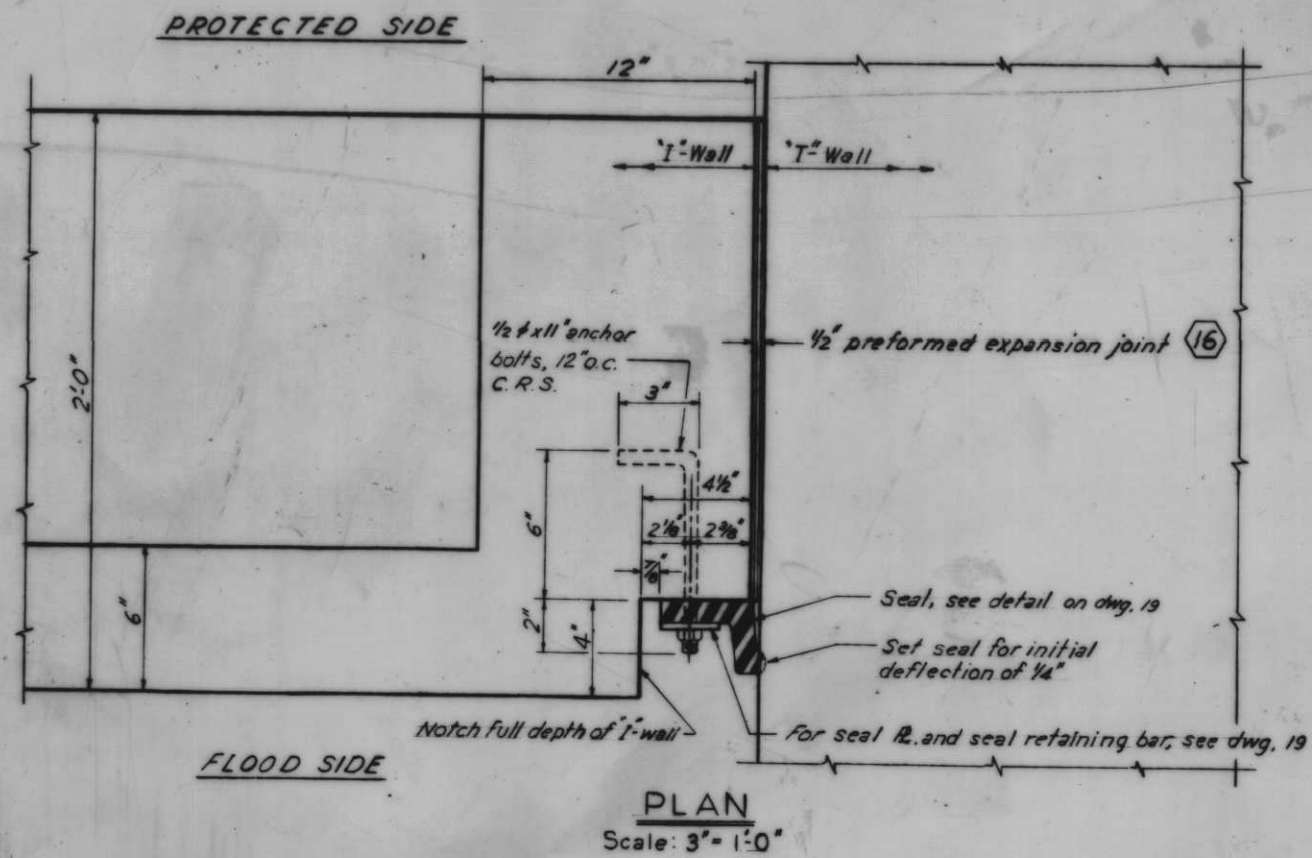
H PILING AND MONOLITH LAYOUT
 Scale: 3/32" = 1'-0"

AS CONSTRUCTED

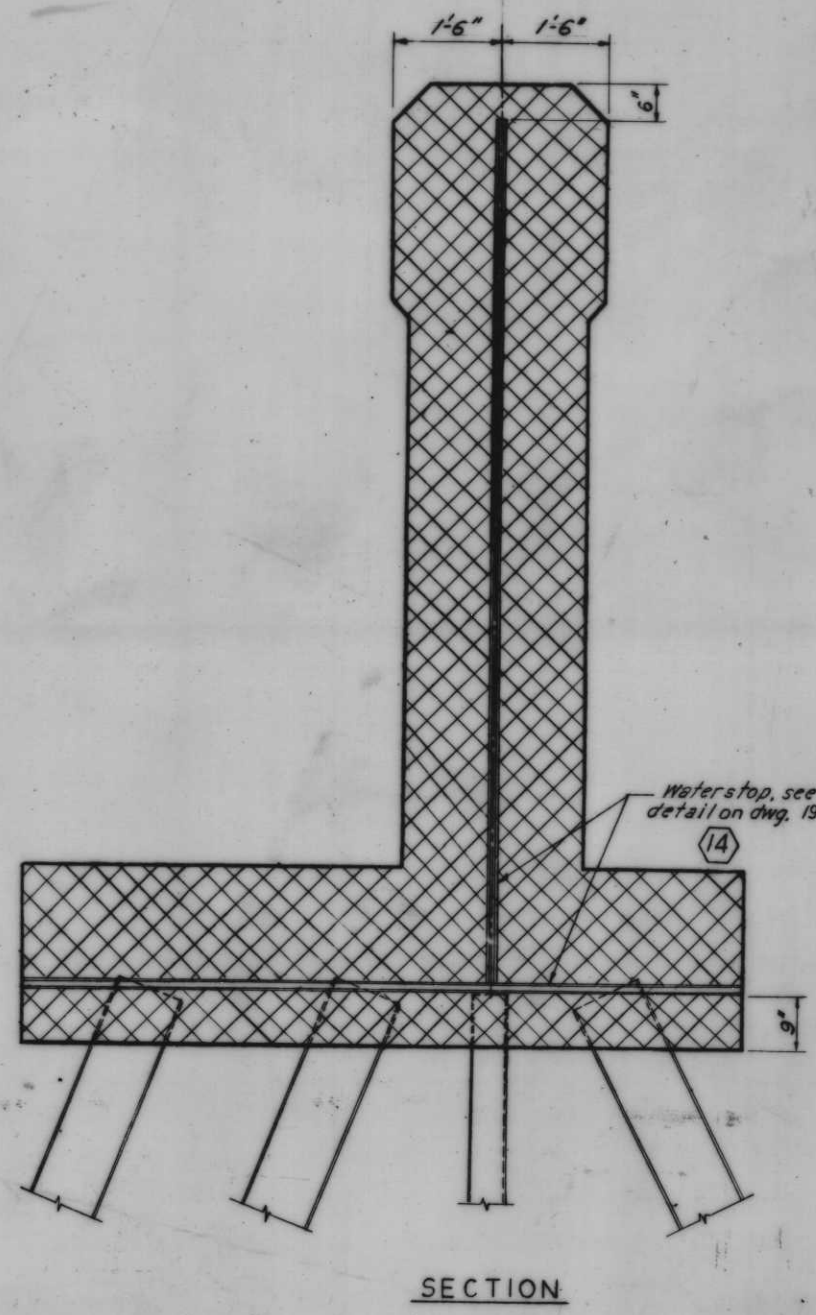
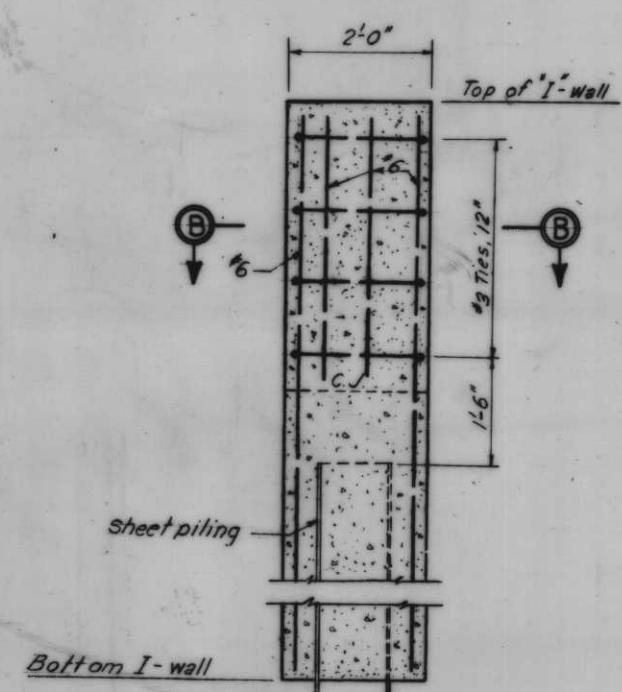
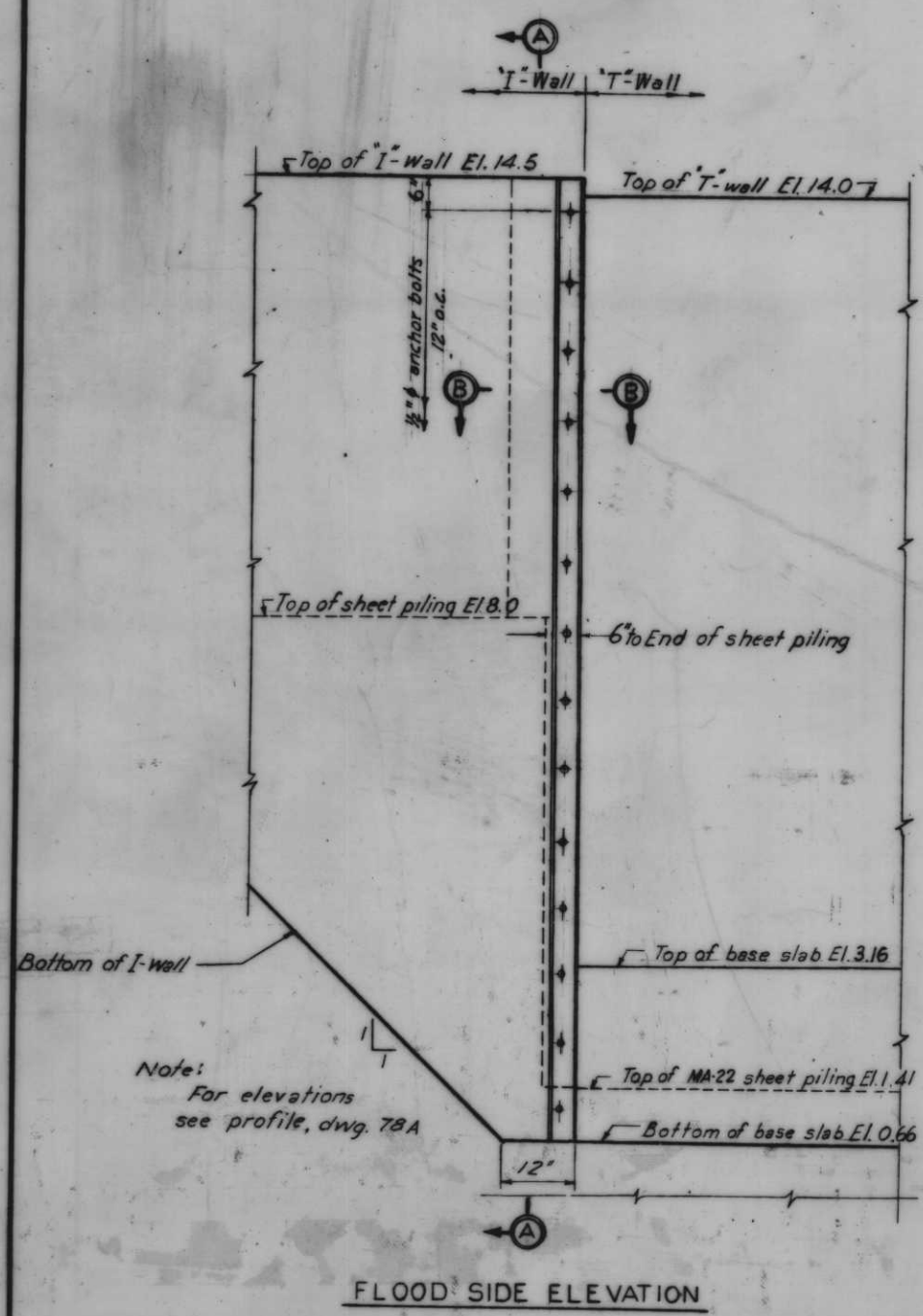
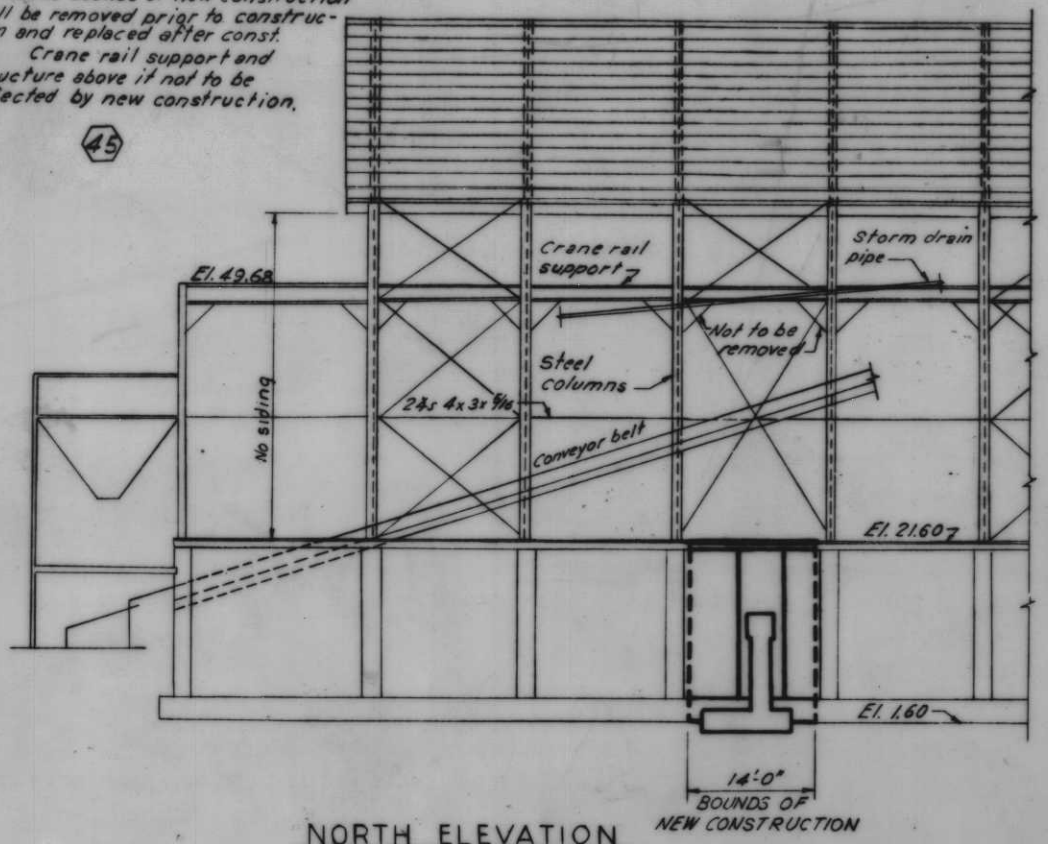
SHEET PILE & "H" PILE LAYOUTS - ROCK STORAGE BIN

REVISION	DATE	DESCRIPTION	BY
DESIGNED:	DRAWN:	CHECKED:	CODE IDENT. NO. SIZE FILE NO.
R.J.G.	E.J.C.	R.J.G.	H-4-24263
DATE:	SCALE SHOWN	SPEC. NO. DACTYPES	DWG. NO. 78C-78

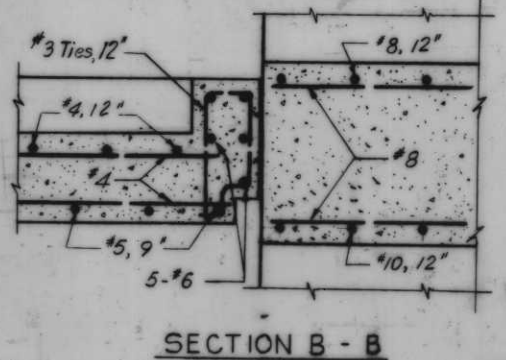
IHNC. WEST LEVEE, FLA. AVE. TO IHNC LOCK - FLOODWALL



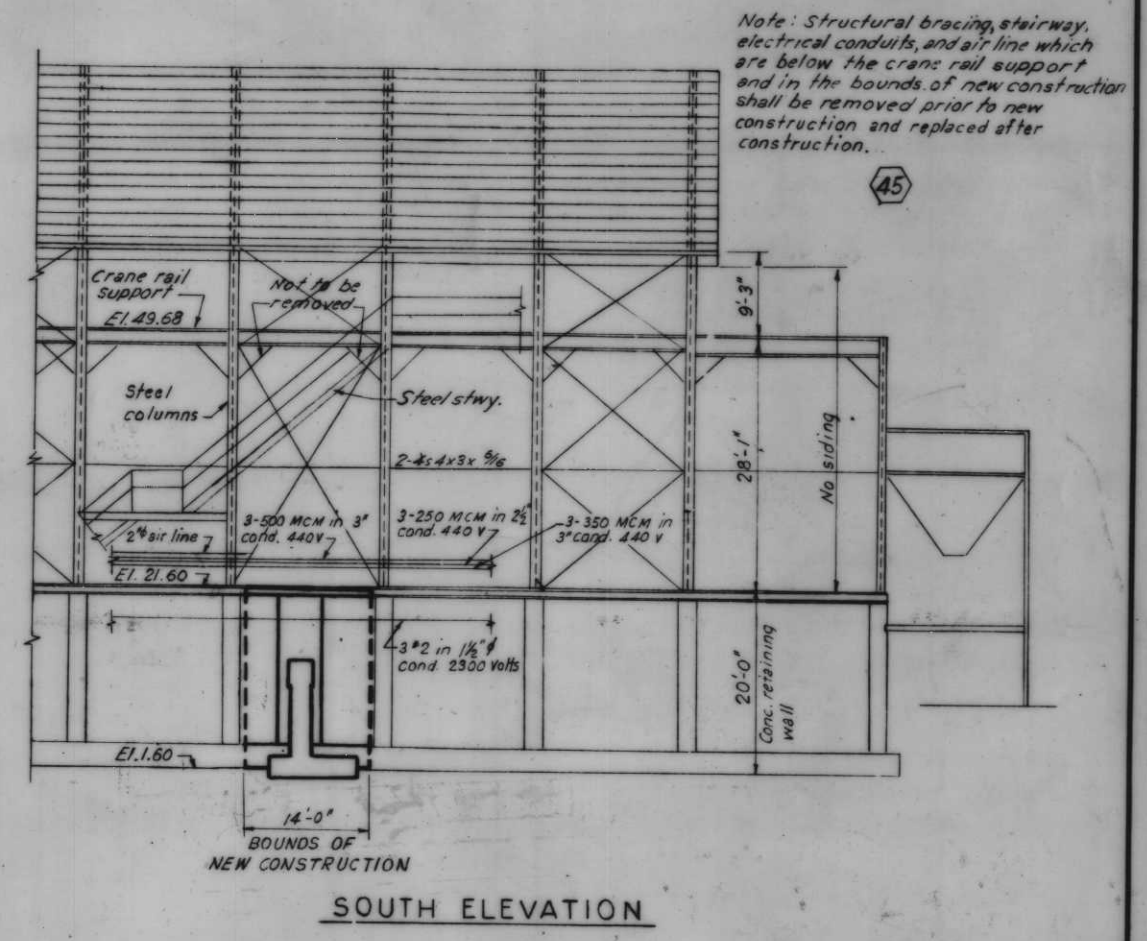
Note: Structural bracing, conveyor belt and support, and gutter pipe which are below the crane rail support and in the bounds of new construction shall be removed prior to construction and replaced after const. Crane rail support and structure above if not to be affected by new construction.



TYPICAL T-WALL JOINT
Scale: 3/4" = 1'-0"
Note: See dwg. 19 for typical I-wall joint.



TYPICAL JOINT BETWEEN I-WALL AND T-WALL
Scale: 3/4" = 1'-0"

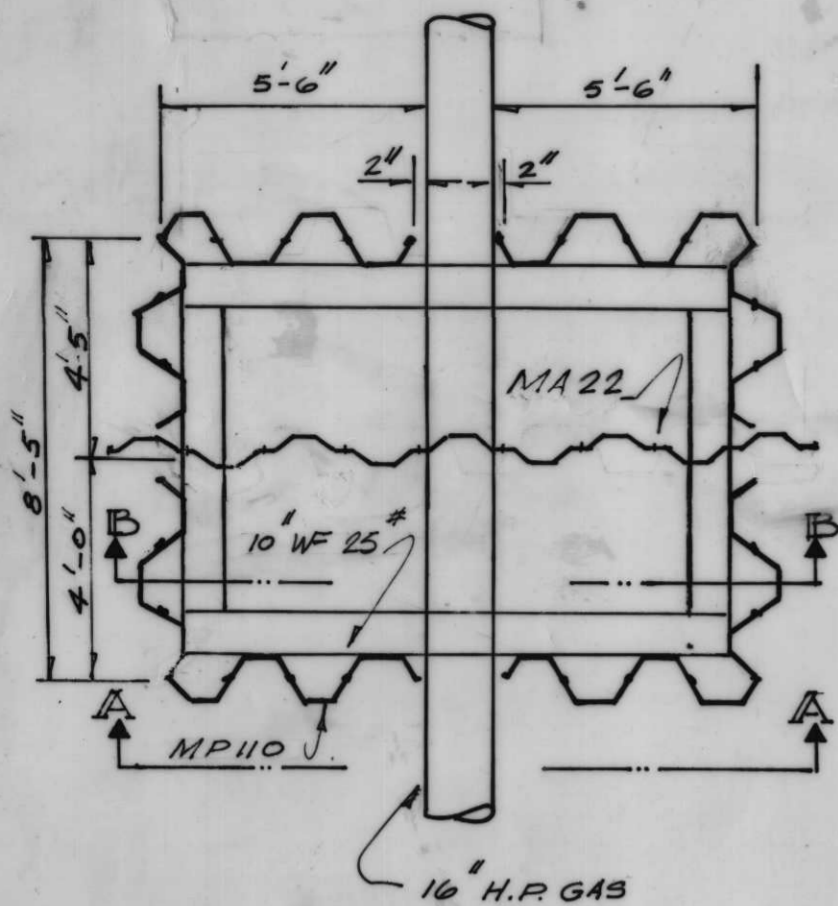


ROCK STORAGE BIN
Scale: 3/32" = 1'-0"
Note: For general notes, see dwg. 4. For typical I-wall section, see dwg. 18. For typical T-wall section, see dwg. 78A.

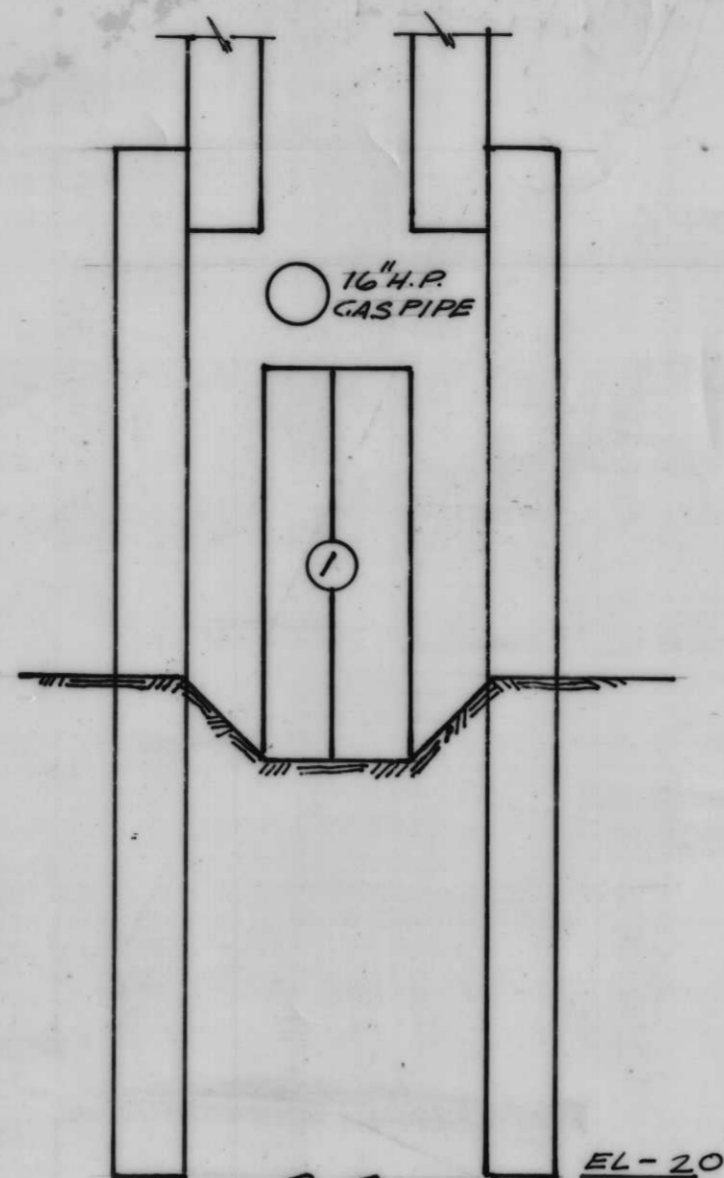
AS CONSTRUCTED

TYPICAL WALL JOINTS-ROCK STORAGE BIN

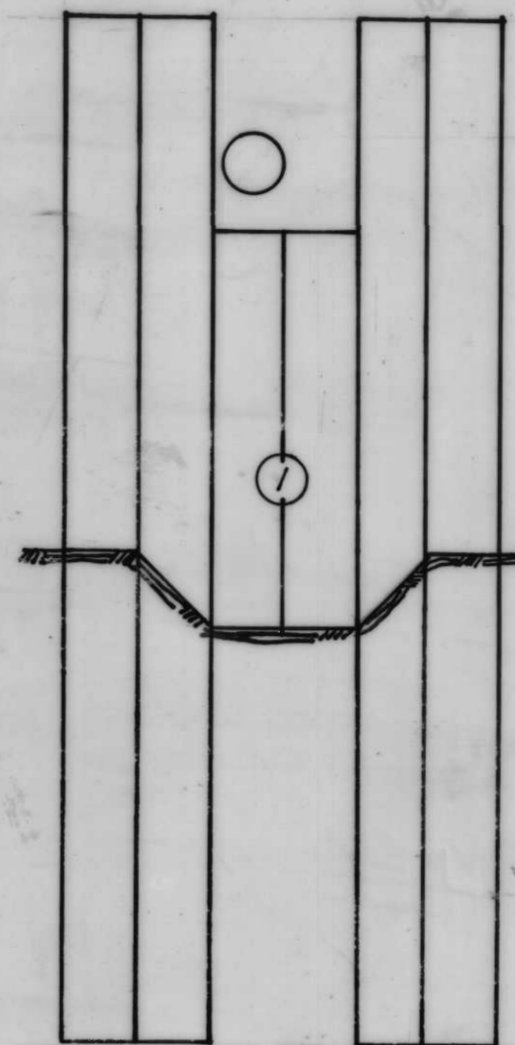
REVISION	DATE	DESCRIPTION	BY
DESIGNED: R.J.G.	DRAWN: E.J.C.	CHECKED: R.J.C.	FILE NO. H-4-24263
DATE:		SCALE SHOWN:	SPEC. NO. DACWB:
		DWG. NO. 78D-78	



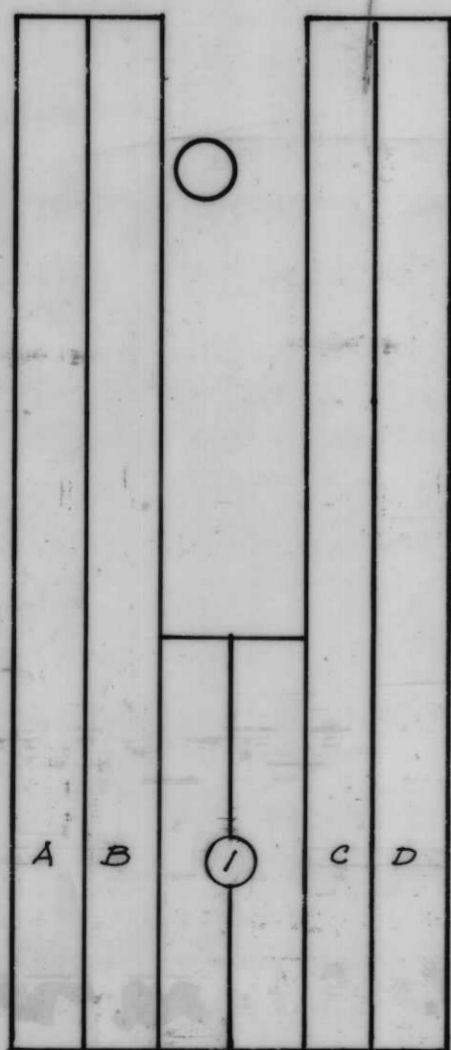
PLAN
SCALE 1" = 4'-0"



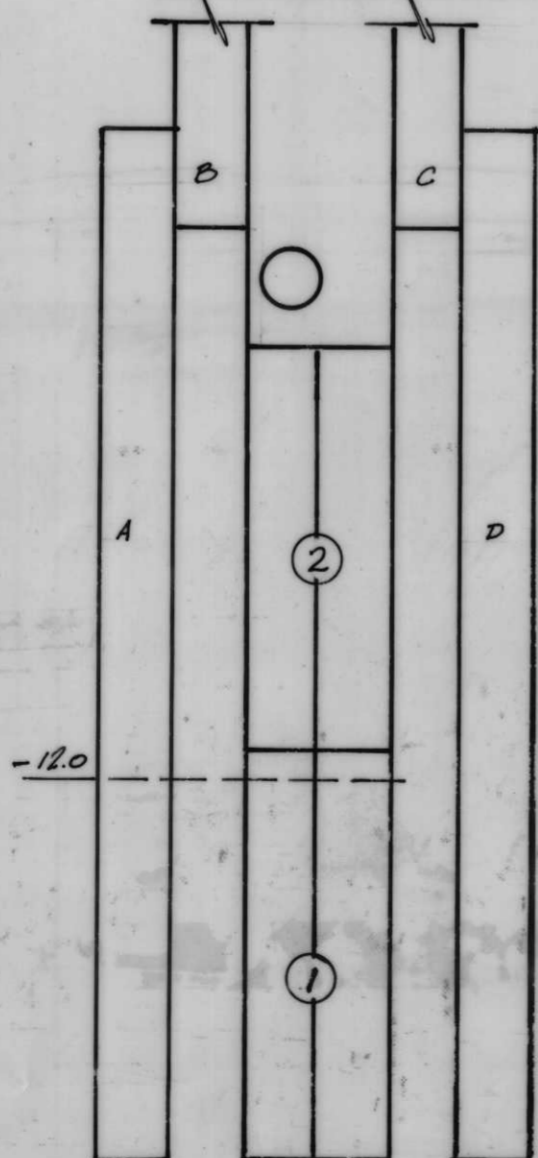
SEC. B.B. STEP I



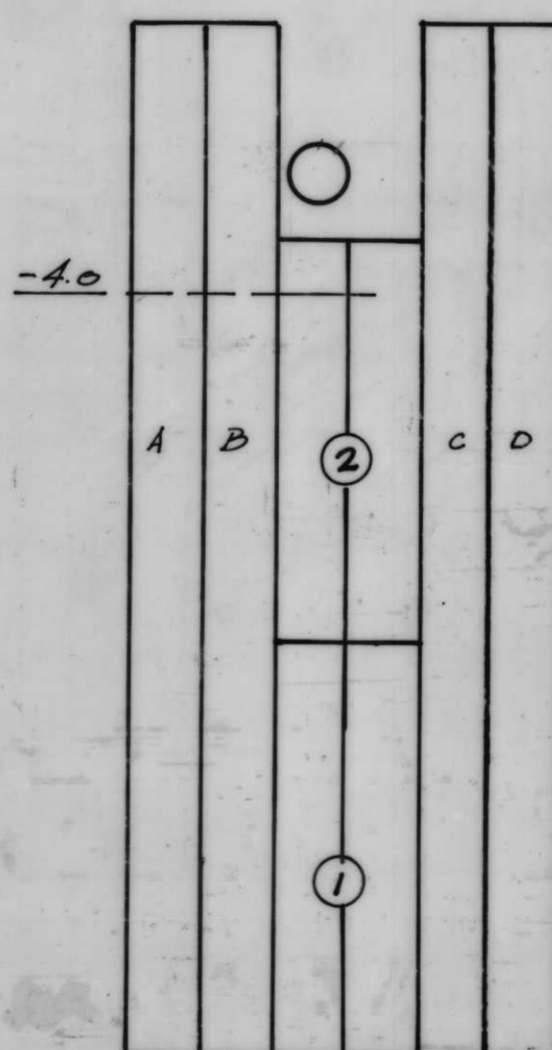
SEC. B.B. STEP II



SEC. B.B. STEP III



SEC. B.B. STEP IV



SEC. B.B. STEP V

16" H.P. GAS MODIFICATION

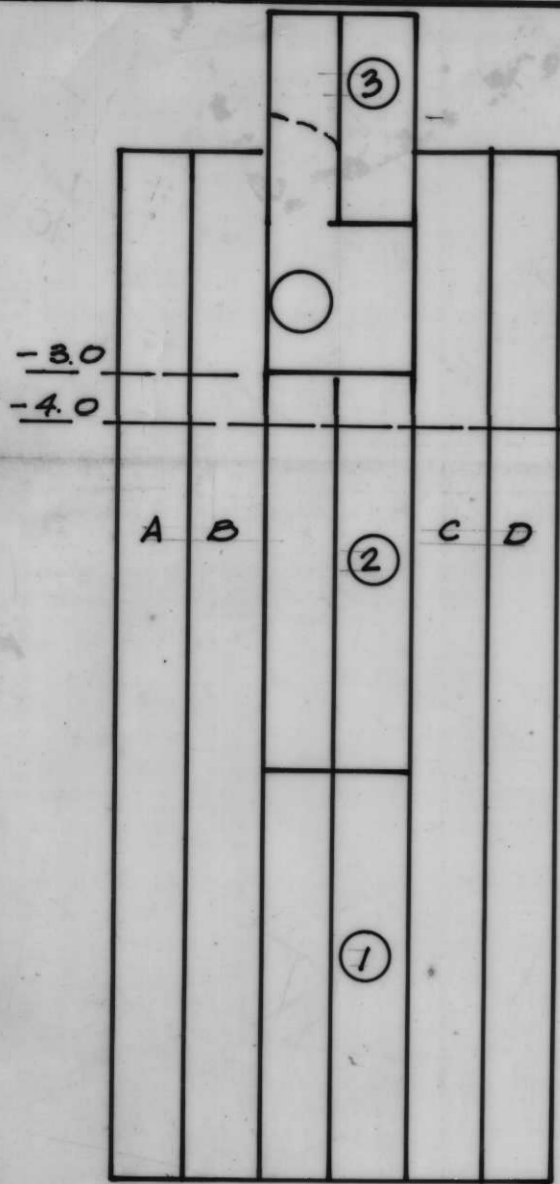
PROCEDURE

COFFERDAM DRIVEN & EXCAVATION COMPLETED
STEP N°1:
 PLACE BOTTOM SECTION OF 2 PILE UNITS MARKED 1 IN COFFERDAM AND HAND EXCAVATE ONLY SUFFICIENT MATERIAL TO PERMIT PLACING SECTIONS UNDER H. P. GAS MAIN.
 SET PILES MARKED B & C INTERLOCK WITH PILES MARKED A & D AND WITH BOTTOM SECTION MARKED 1
STEP N°2:
 DRIVE PILES MARKED B & C TO "PLAN GRADE."
STEP N°3:
 DRIVE BOTTOM SECTIONS OF TWO PILE UNITS MARKED 1 TO FINAL "PLAN GRADE" AND THEN EXTRACT PILES MARKED B & C SUFFICIENTLY TO PERMIT THE INSTALLATION OF THE INTERMEDIATE OR MIDDLE SECTION MARKED 2 IN STEP N°4
STEP N°4:
 PLACE INTERMEDIATE OR CENTER SECTION OF 2 PILE UNITS MARKED 2 IN COFFERDAM AND INSTALL ON AND OVER, IN PLACE BOTTOM SECTION OF 2 PILE UNITS MARKED 1.
 INTERLOCK PILES MARKED B & C WITH INTERMEDIATE MARKED 2 TO PLAN GRADE IT MAY BE NECESSARY TO PIN THE 2 PILE UNITS TO PILES NOT THEN BEING DRIVEN TO RETARD DOWNWARD CREEP
STEP N°5:
 AFTER THE DRIVING OF PILES INDICATED IN STEP N°4 AND THE SPACE BETWEEN INTERLOCKS OF PILE MARKED B & C HAS BEEN CHECKED TO INSURE PROPER INTERLOCKING DISTANCE FOR THE INSTALLATION OF TOP SECTIONS OF 2 PILE UNITS, BOTTOM SECTIONS MAY BE WELDED TO INTERMEDIATE SECTIONS OF 2 PILE UNITS UPON COMPLETION OF WELDING IN STEP N°5 BACK FILLING & COMPACTION SHALL BE PLACED UP TO ELEV -12.0
STEP N°6:
 PLACE TOP SECTIONS OF 2 PILE UNITS MARKED 3 INTERLOCK THEM WITH PILES MARKED B & C. LOWER SECTIONS TO ABOUT 6" ABOVE 16" H.P. GAS PIPE, SCRIBE BOTTOM OF SECTIONS TO PERMIT LOWERING SECTIONS OVER GAS PIPES AND IN CONTACT WITH INTERMEDIATE SECTIONS. FIT & WELD TOP SECTION TO INTERMEDIATE. THE INSTALLATION OF TOP SECTIONS MAY BE MADE IN STEP N°5 IF SO DESIRED
STEP N°7:
 INSTALL SLEEVES, PACK VOIDS, PLACE END SEALS, BACKFILL & COMPACT C. D. AREA TO ORIGINAL GRADE LINE, REMOVE COFFERDAM

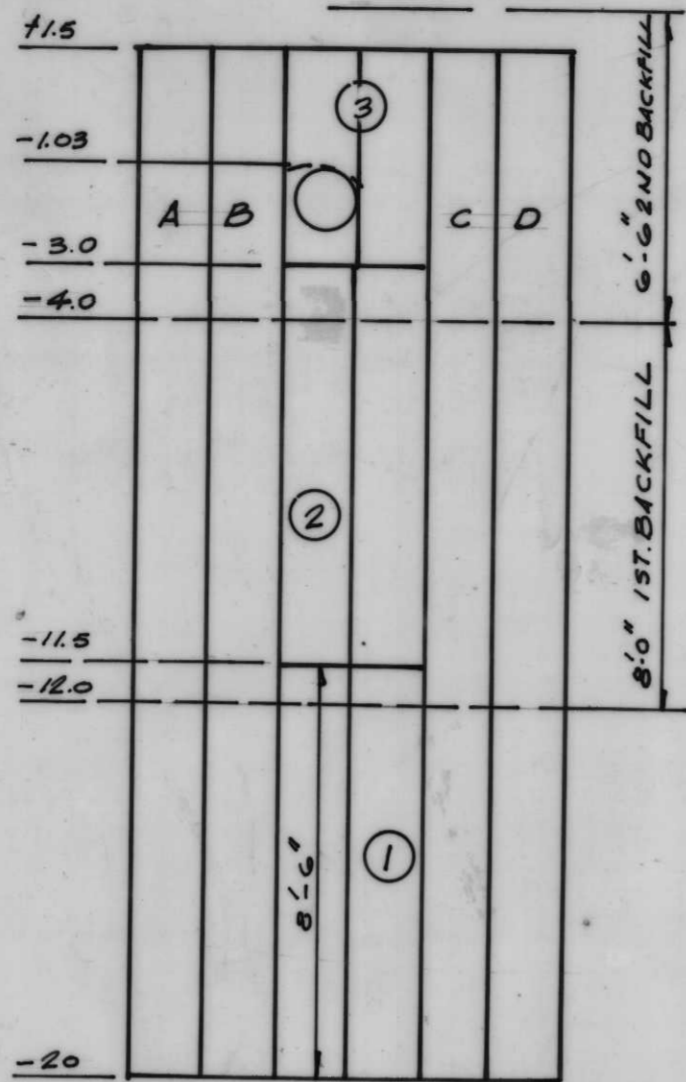
NOTE: SEE DRAWING N°31 FOR FURTHER DETAILS OF 16" H.P. GAS PIPE MODIFICATION.

AS CONSTRUCTED

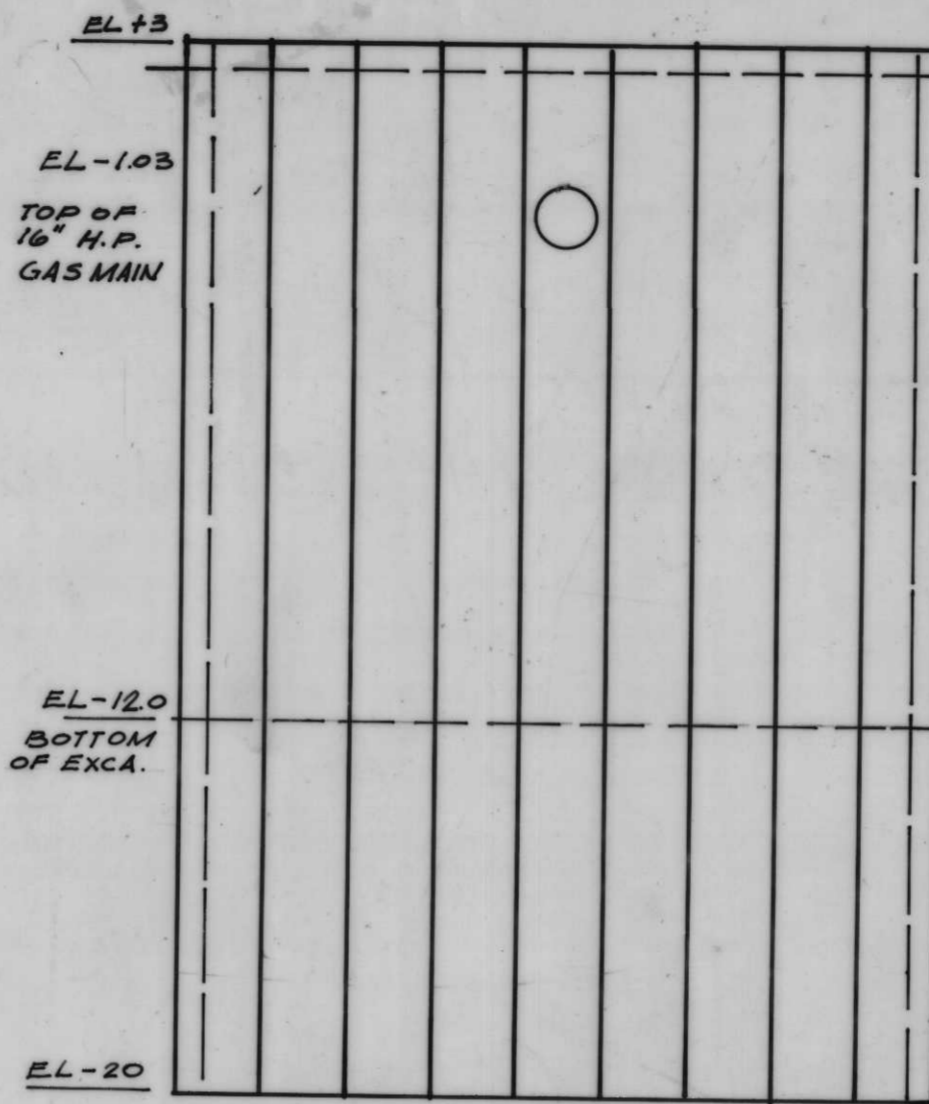
LGB	GC		H-4-24263
DATE 10-1-68	SCALE 1" = 4'		DWG N° 79 OF 80



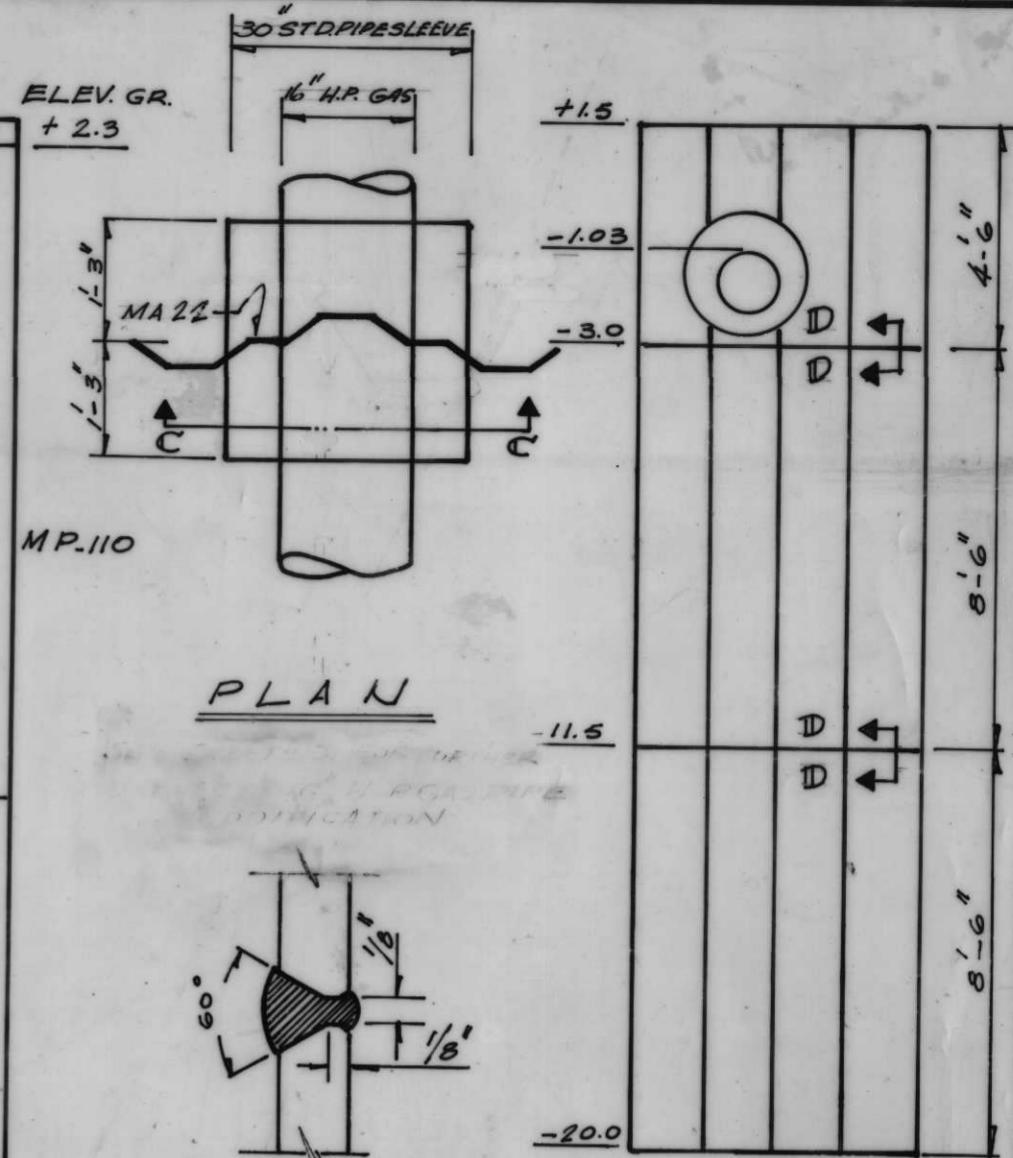
SEC. B.B.
STEP VI



SEC. B.B.
MODIFICATION COMPLETE



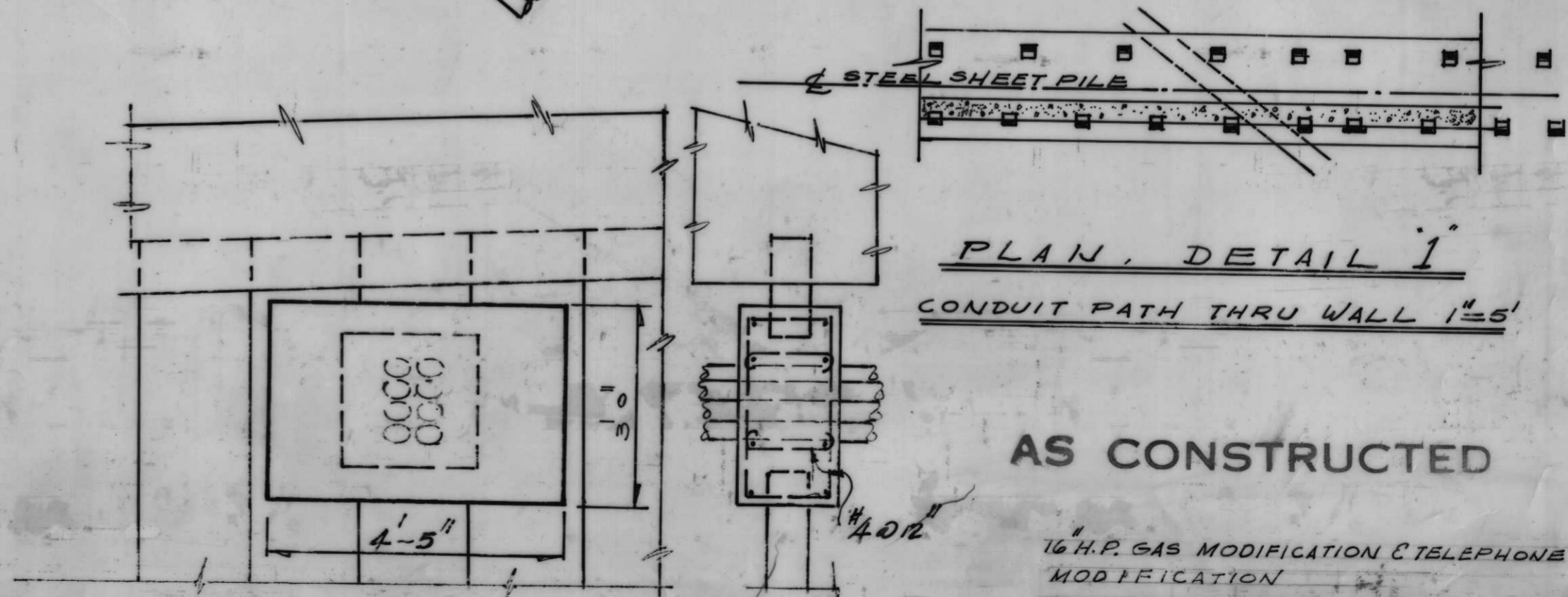
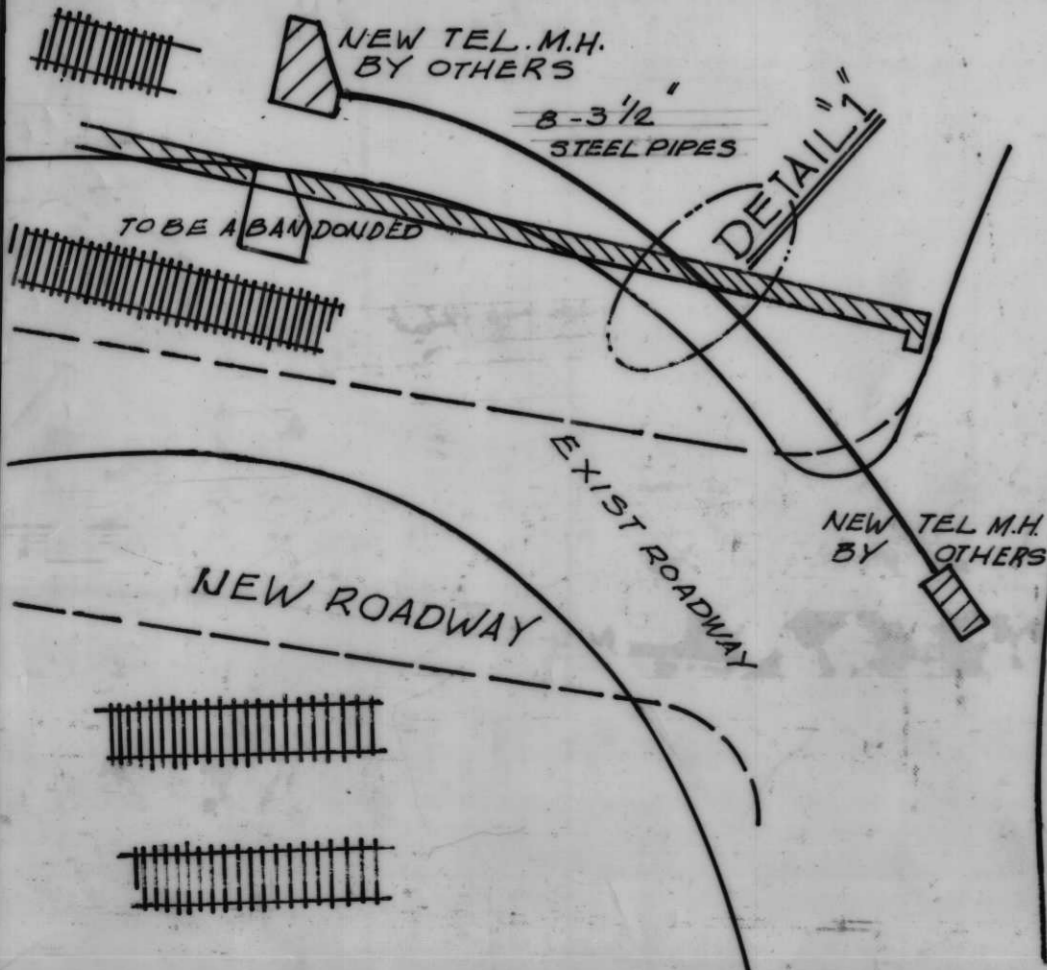
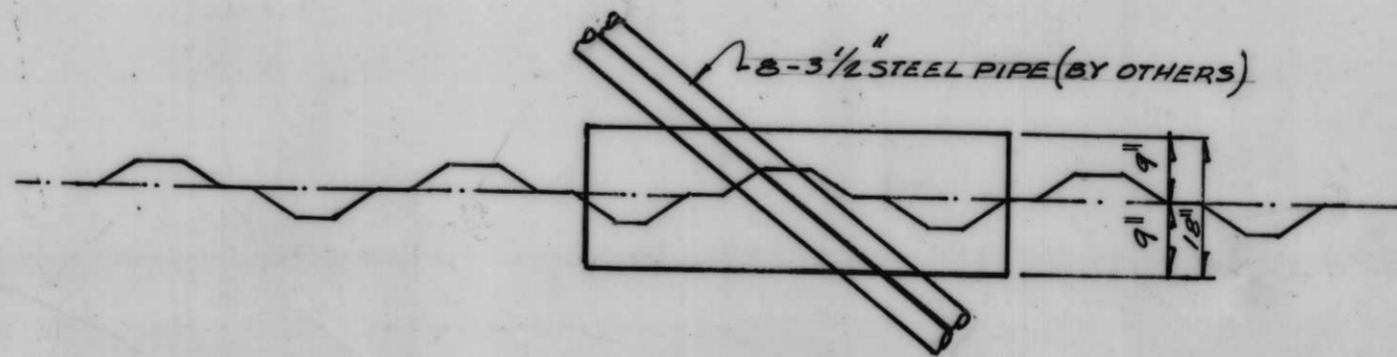
SEC. A A
COFFERDAM WALL SCALE 1"=4'-0"



PLAN

SEC. D D V BUTTWELD
FULL SCALE

SEC. C C 1"=4'-0"



REINFORCED CONCRETE COLLAR CLOSURE DETAIL
SCALE 1"=1'-0"

AS CONSTRUCTED

16" H.P. GAS MODIFICATION & TELEPHONE
MODIFICATION

LGB	GC			HA-24-263
DATE: 10-1-68	SCALE: SHOWN			DWG. BOOF. BO