

EMERGENCY OPERATIONS FLOODWALL STRUCTURES

Updated 25 February 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.

INNER HARBOR NAVIGATIONAL CANAL TO PARIS ROAD

HURRICANE PROTECTION LEVEE - CITRUS BACK LEVEE

(Station 510+20 to Station 582+96)

PLANS FOR LEVEE AND FLOODWALL

Orleans Parish, Louisiana

File Number H-8-24405; Spec Number DACW-29-68-B-0172

Structures Branch Stick File Number 21

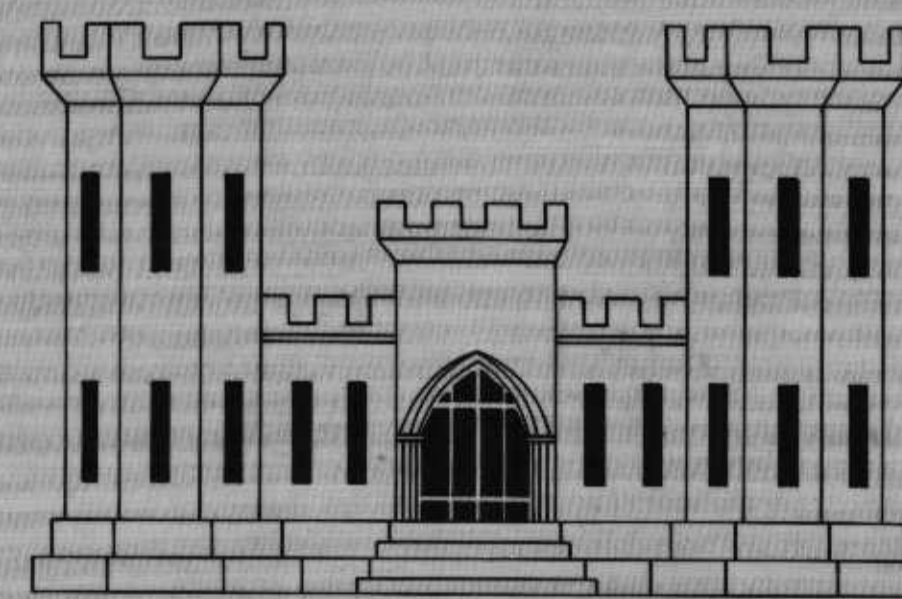
SHEET #	DRAWING TITLE
0	Title Sheet
File:	H-8-24405-00
1	Location Plan, Vicinity Map and Index to Drawings
File:	H-8-24405-01
2	Plan and Profile - Stations 510+20 to 582+96 = 11+13 W/L
File:	H-8-24405-02
3	Levee Design Sections
File:	H-8-24405-03
4	Log of Soil Borings
File:	H-8-24405-04
5	Floodwall Alignment
File:	H-8-24405-05 D R A W I N G S 05A & 05B NOT SCANNED
6	Floodwall Alignment
File:	H-8-24405-06
7	Floodwall Profile
File:	H-8-24405-07
8	Steel Sheet Piling Layout and Reference Markers
File:	H-8-24405-08
9	Typical Floodwall and Detail Sections
File:	H-8-24405-09 D R A W I N G S 09A & 09B NOT SCANNED
10	Wall at Discharge Pipes - Monolith 10
File	H-8-24405-10
A	Soil Boring Legend
File	H-8-24405-A D R A W I N G NOT SCANNED

LAKE PONTCHARTRAIN, LOUISIANA AND VICINITY
LAKE PONTCHARTRAIN BARRIER PLAN
ORLEANS PARISH, LA.

CITRUS BACK LEVEE

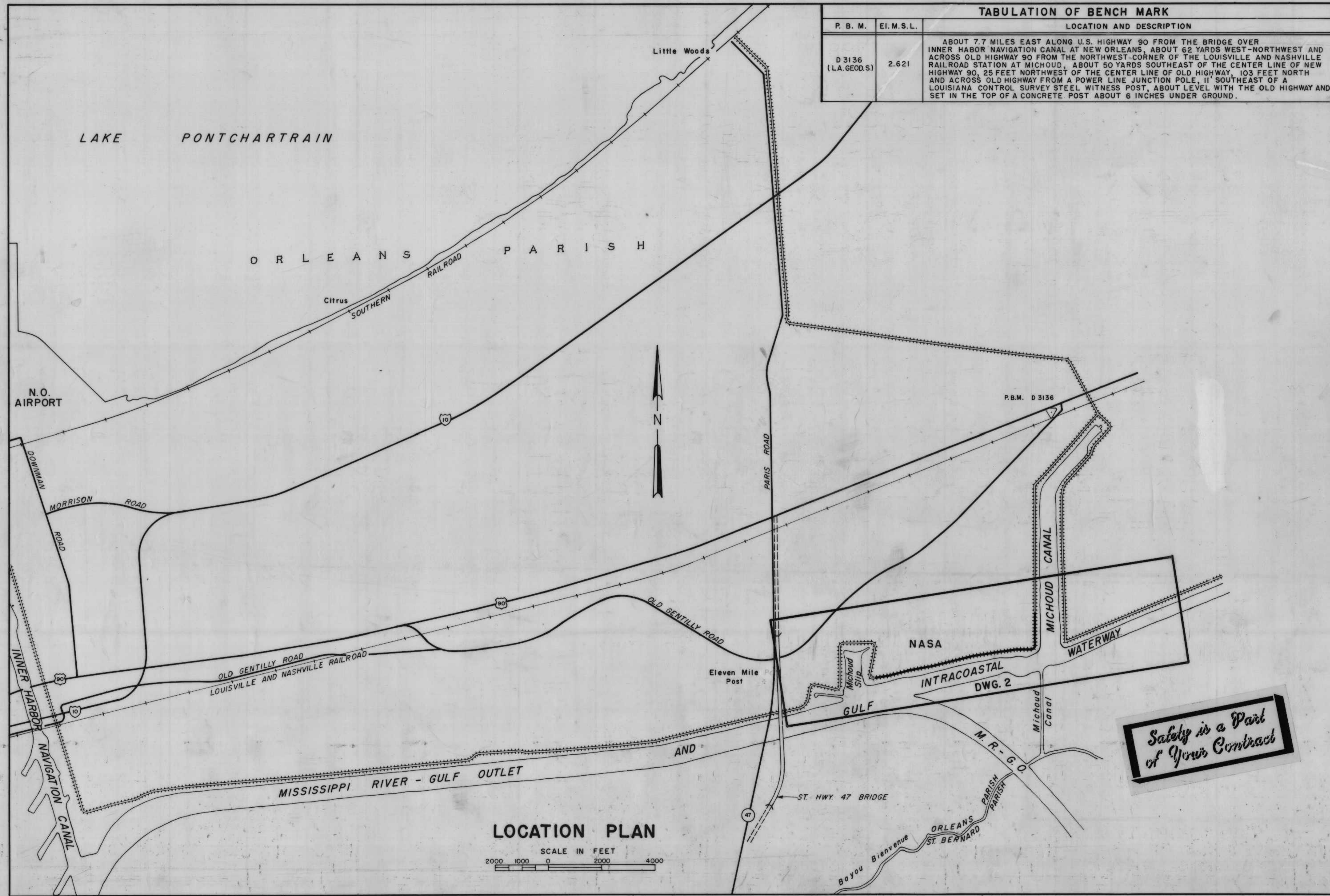
INNER HARBOR NAVIGATION CANAL TO PARIS ROAD
STA. 196+16.6 TO STA. 431+00

PLANS FOR
LEVEE AND FLOODWALL

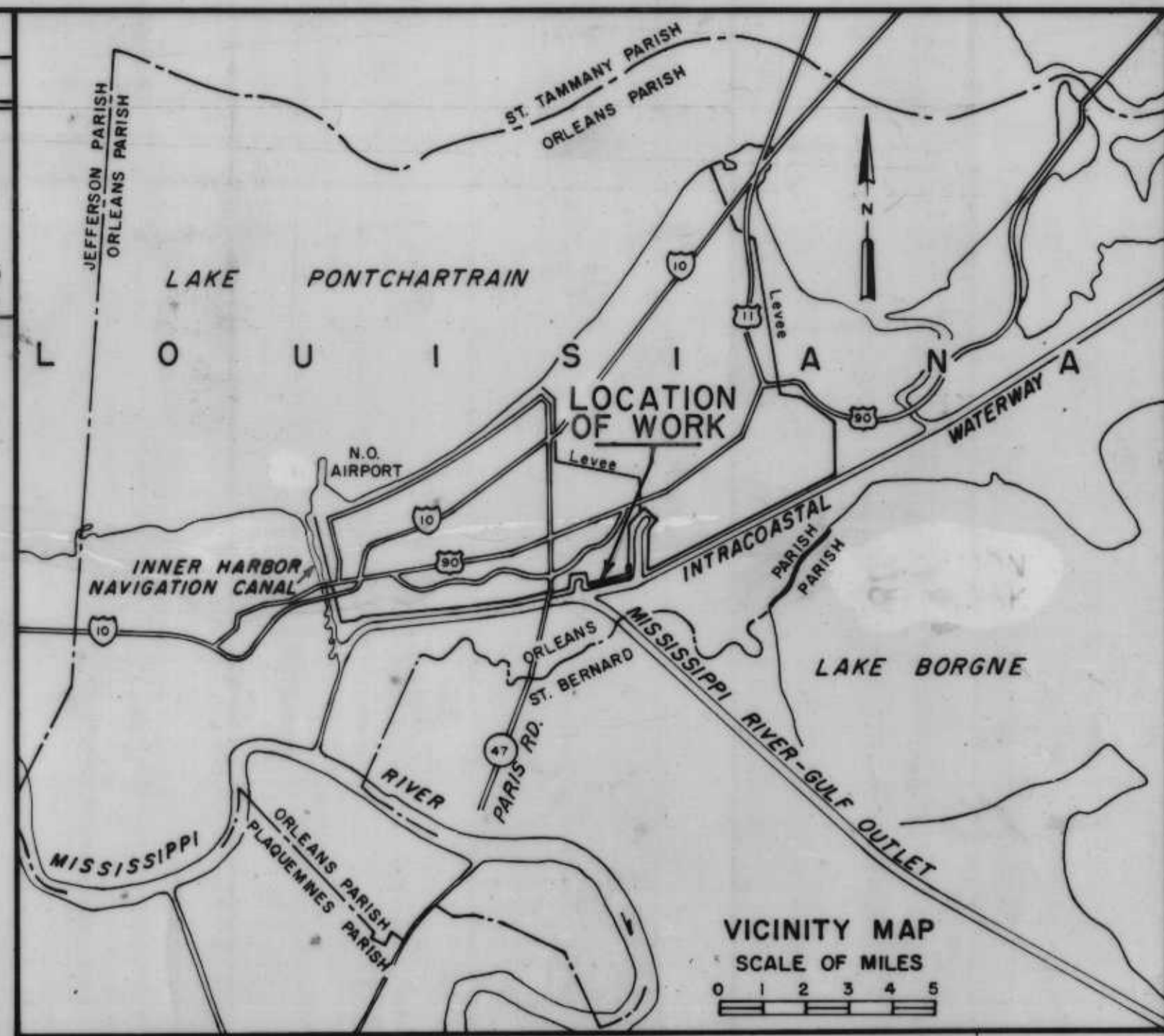


U.S. ARMY ENGINEER DISTRICT, NEW ORLEANS, LA.
CORPS OF ENGINEERS

1968



TABULATION OF BENCH MARK		
P. B. M.	EI. M. S. L.	LOCATION AND DESCRIPTION
D 3136 (L.A. GEOD.S.)	2.621	ABOUT 7.7 MILES EAST ALONG U.S. HIGHWAY 90 FROM THE BRIDGE OVER INNER HARBOR NAVIGATION CANAL AT NEW ORLEANS, ABOUT 62 YARDS WEST-NORTHWEST AND ACROSS OLD HIGHWAY 90 FROM THE NORTHWEST CORNER OF THE LOUISVILLE AND NASHVILLE RAILROAD STATION AT MICHLOUD, ABOUT 50 YARDS SOUTHEAST OF THE CENTER LINE OF NEW HIGHWAY 90, 25 FEET NORTHWEST OF THE CENTER LINE OF OLD HIGHWAY, 103 FEET NORTH AND ACROSS OLD HIGHWAY FROM A POWER LINE JUNCTION POLE, 11' SOUTHEAST OF A LOUISIANA CONTROL SURVEY STEEL WITNESS POST, ABOUT LEVEL WITH THE OLD HIGHWAY AND SET IN THE TOP OF A CONCRETE POST ABOUT 6 INCHES UNDER GROUND.



INDEX TO DRAWINGS	
DWG.	TITLE
1	LOCATION PLAN, VICINITY MAP AND INDEX
2	PLAN AND PROFILE
3	LEVEE DESIGN SECTIONS
4	LOG OF SOIL BORINGS
5	FLOODWALL ALIGNMENT
6	FLOODWALL ALIGNMENT
7	FLOODWALL PROFILE
8	STEEL SHEET PILING LAYOUT AND REFERENCE MARKERS
9	TYPICAL FLOODWALL AND DETAIL SECTIONS
10	WALL AT DISCHARGE PIPES - MONOLITH 10

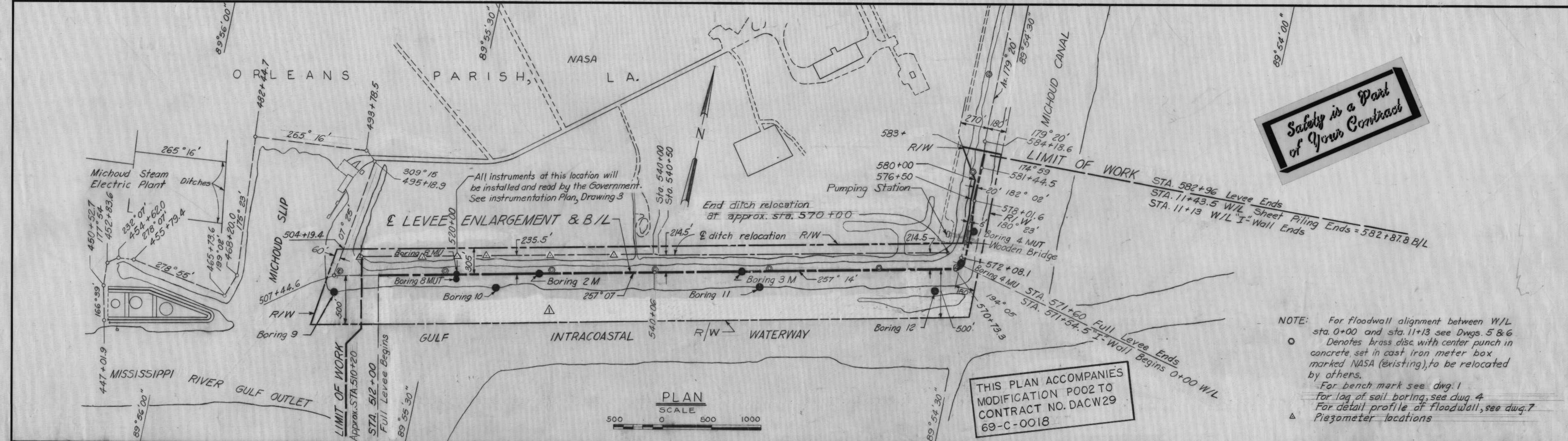
LOCATION PLAN
SCALE IN FEET
2000 1000 0 2000 4000

Safety is a Part of Your Contract

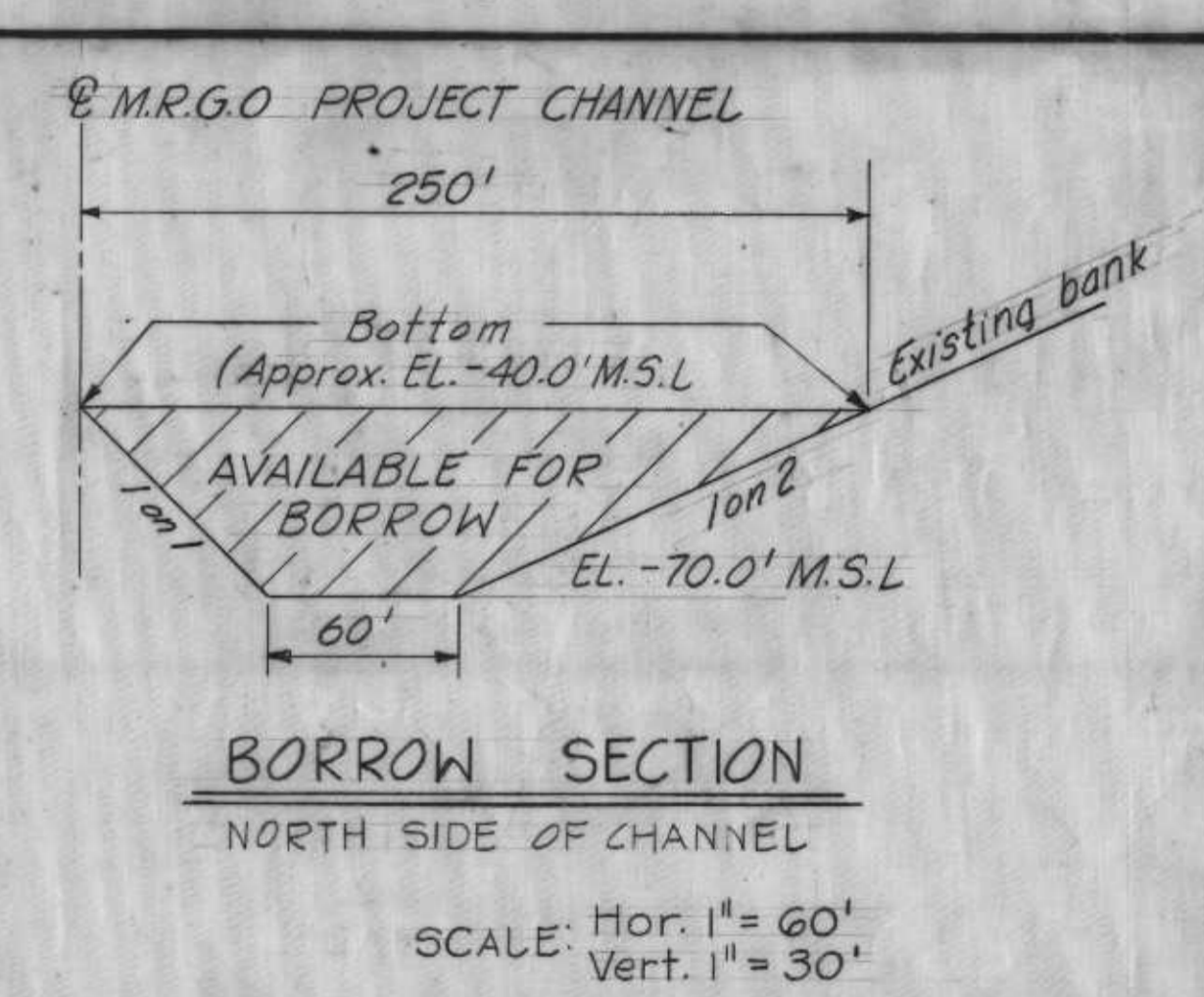
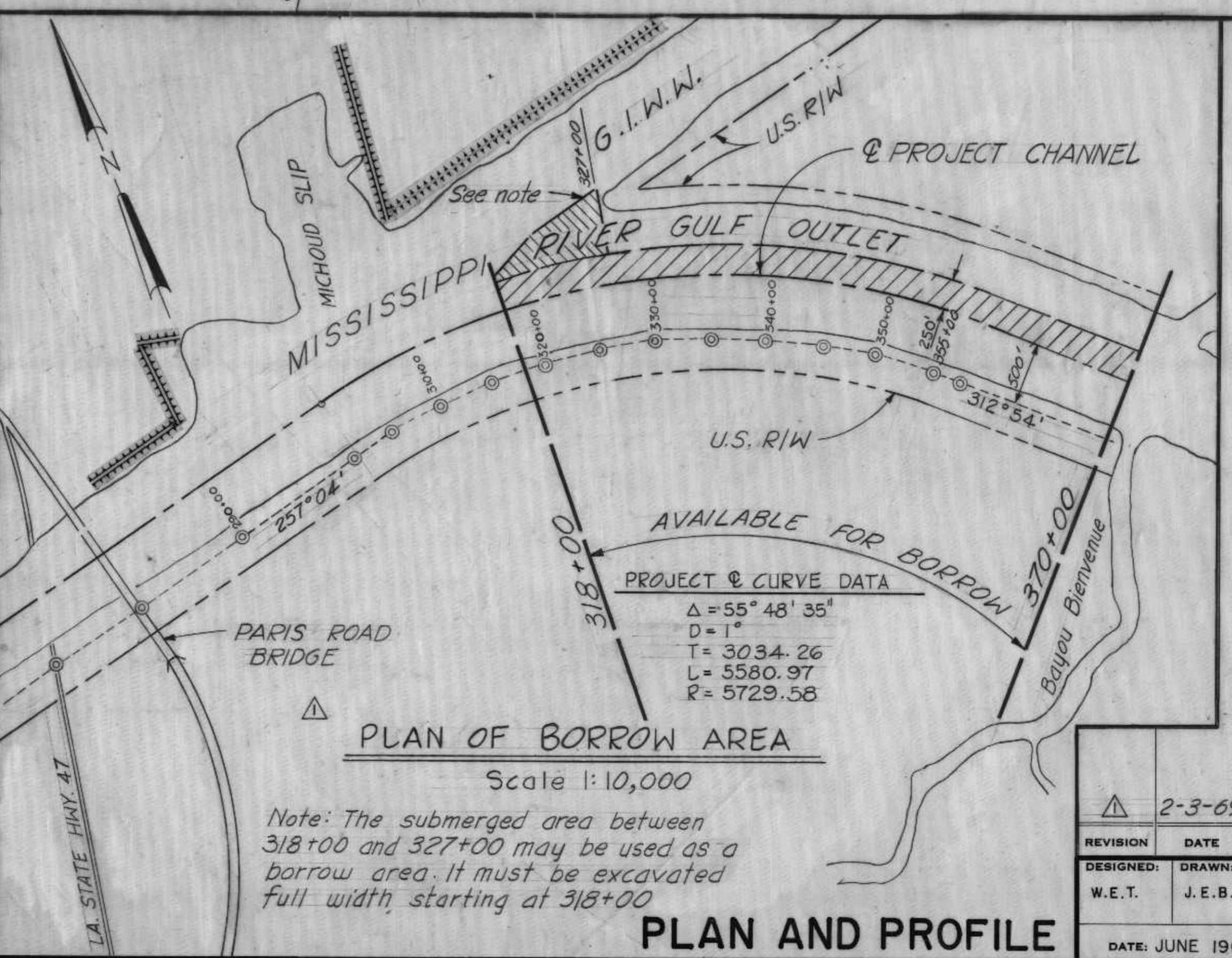
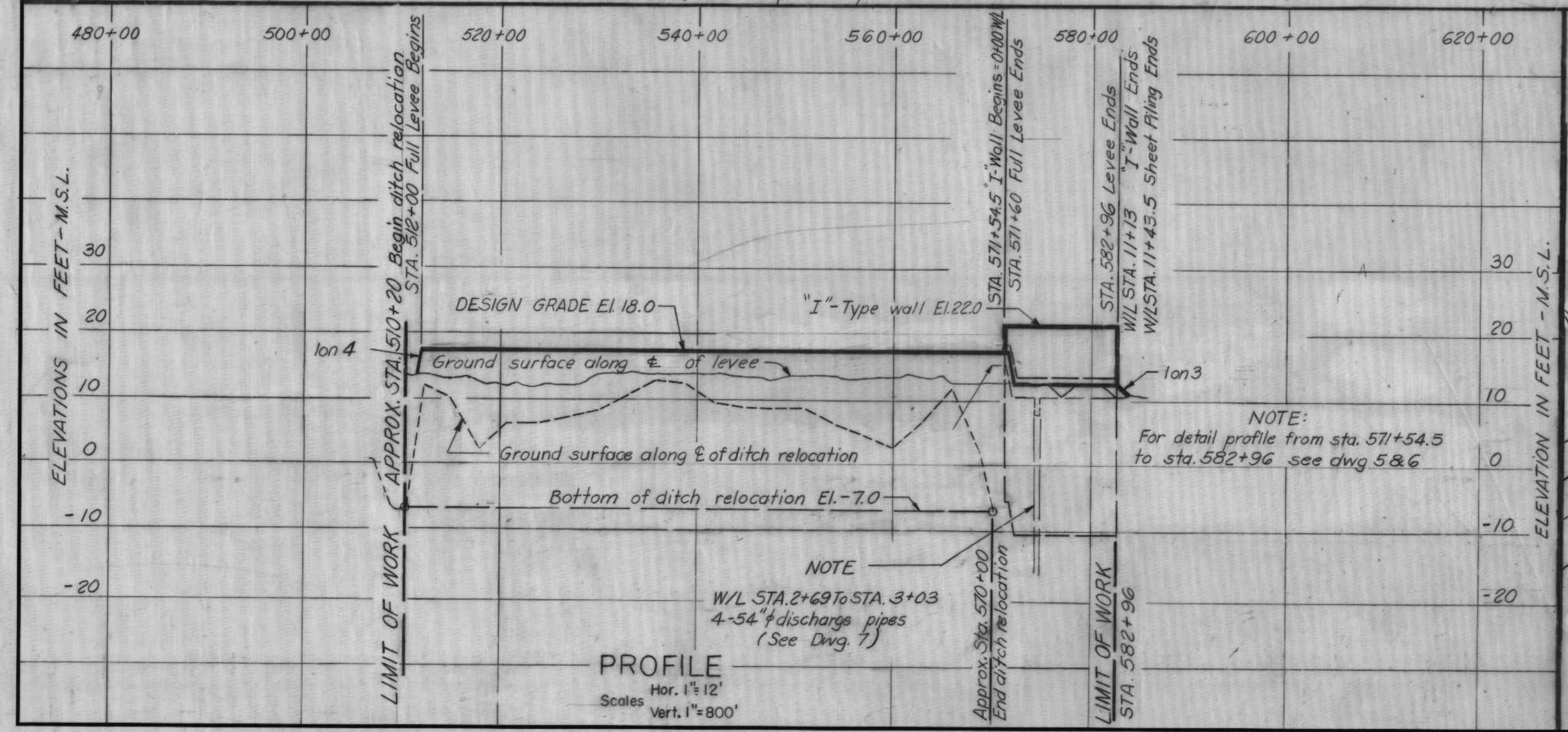
DRAWN BY: G.P.M.	TRACED BY: G.P.M.	CHECKED BY: W.E.T.	U. S. ARMY ENGINEER DISTRICT, NEW ORLEANS CORPS OF ENGINEERS NEW ORLEANS, LA.
SUBMITTED: <i>R.J. Franklin</i> CHIEF, DESIGN BRANCH			LAKE PONTCHARTRAIN, LA. AND VICINITY LAKE PONTCHARTRAIN BARRIER PLAN
DATE: JUNE 1968			HURRICANE PROTECTION LEVEE CITRUS BACK LEVEE STA. 510+20 TO STA. 582+96
APPROVED: <i>Thomas J. Bowen</i> COLONEL, DISTRICT ENGINEER			CODE IDENT. NO. SIZE FILE NO. H-8-24405
SCALE: AS SHOWN			SPEC. NO. DACW 29-68-B-0172 DWG. NO. 1 OF 10

CITRUS BACK LEVEE (MICHLOUD SLIP TO MICHLOUD CANAL)

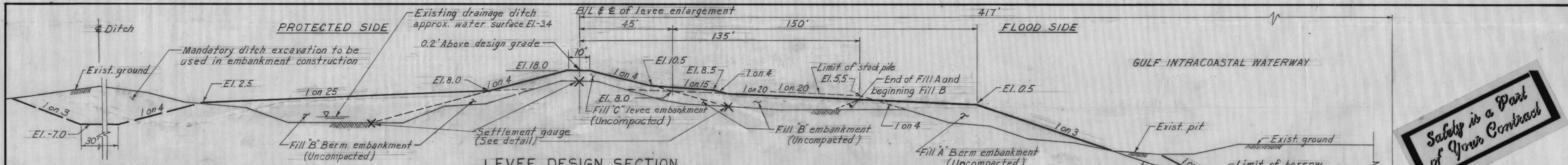
Safety is a Part of Your Contract



NOTE: For floodwall alignment between W/L sta. 0+00 and sta. 11+13 see Dwg. 5 & 6
 ○ Denotes brass disc with center punch in concrete set in cast iron meter box marked NASA (existing), to be relocated by others.
 For bench mark see dwg. 1
 For log of soil boring, see dwg. 4
 For detail profile of floodwall, see dwg. 7
 ▲ Piezometer locations



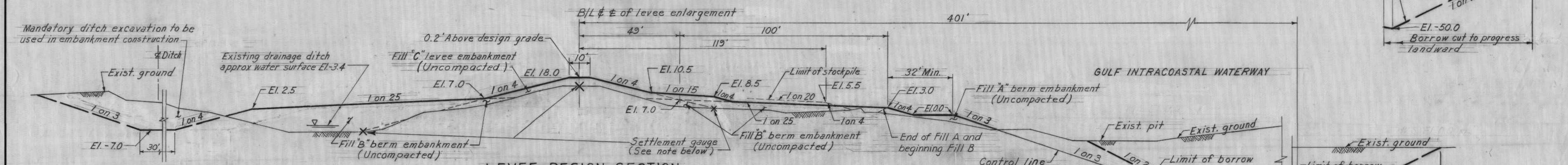
2-3-69 Revised borrow area location (Mod #2)		J.E.B.	
REVISION	DATE	DESCRIPTION	BY
DESIGNED:	DRAWN:	CHECKED:	CODE IDENT. NO.
W.E.T.	J.E.B.	W.E.T.	SIZE
H-8-24405			
DATE: JUNE 1968		SCALE: SHOWN	SPEC. NO. DACW29-68-B-0172 DWG. NO. 2 OF 10



Note: Excavation of the new drainage ditch and filling of the existing drainage ditch shall be performed in such manner and order that complete drainage could be provided at all times by excavation of one gap between the new and existing ditch. (See para. 4.4, section 2 of specifications.)

LEVEE DESIGN SECTION
STA. 512+00 TO STA. 540+00
 (Smooth transition from existing ground at Sta. 511+50 to Sta. 512+00)
 (Smooth transition from Sta. 540+00 to Sta. 540+50)

Not to scale



Note: Drainage ditch relocation to be cut into existing ditch at approx. Sta. 570+00

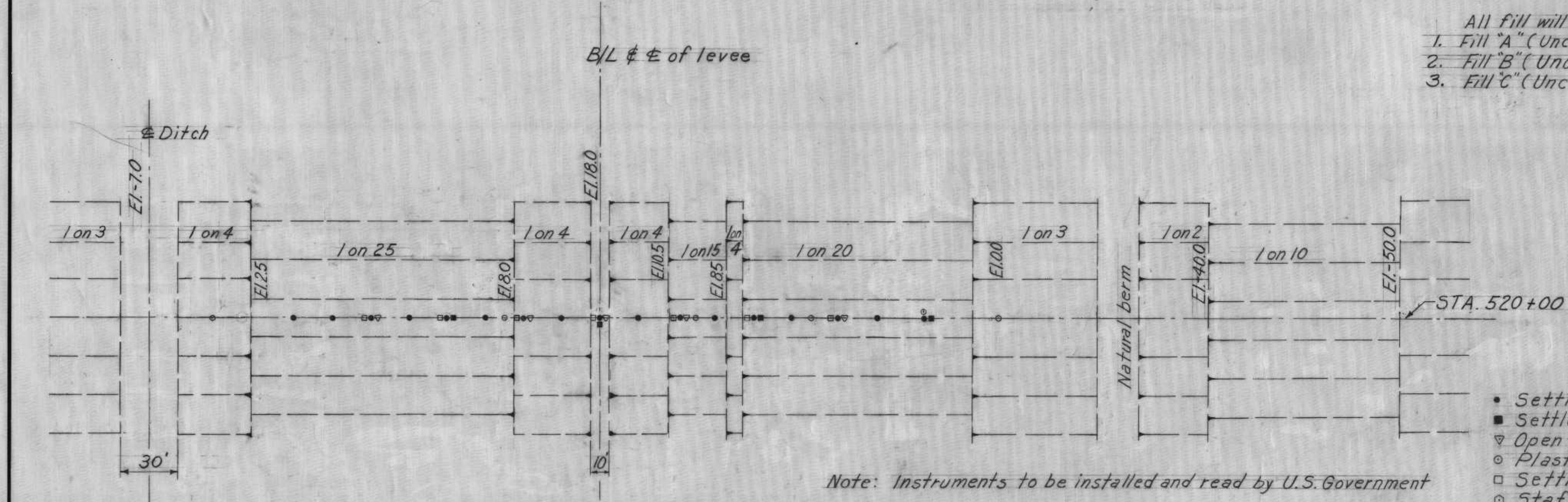
LEVEE DESIGN SECTION
STA. 540+50 TO STA. 570+00
 (Smooth transition from Sta. 570+00 to Sta. 571+00)

Not to scale

Borrow not opposite all levee stations. See Dwg. 2 for limits of borrow.

- All fill will be placed in the following sequence
1. Fill "A" (Uncompacted)
 2. Fill "B" (Uncompacted)
 3. Fill "C" (Uncompacted)

1/8" (10 gage) Steel plate, square minimum 2' x 2'



Note: Instruments to be installed and read by U.S. Government

INSTRUMENTATION PLAN
STA 520+00

- LEGEND**
- Settlement reference hubs on levee section
 - Settlement reference plugs in levee and foundations
 - ◊ Open-type piezometers
 - Plastic tube slope inclinometers
 - Settlement gauges on exist. ground surface (See detail)
 - Staff gauge

Note: Should the contractor desire payment for placing additional fill due to foundation settlement during construction, he shall furnish and install settlement gauges at the locations shown on the Design Section in conformance with the provisions of paragraph 12 section 3 of the specifications. The settlement measurement range for each settlement gauge shall be for a distance of 200 feet in each direction from each settlement gauge measured along the centerline of the levee, except where settlement gauges are placed at less than 400 foot intervals, in which case, the settlement measurement range shall be to a point 1/2 the distance between settlement gauges.

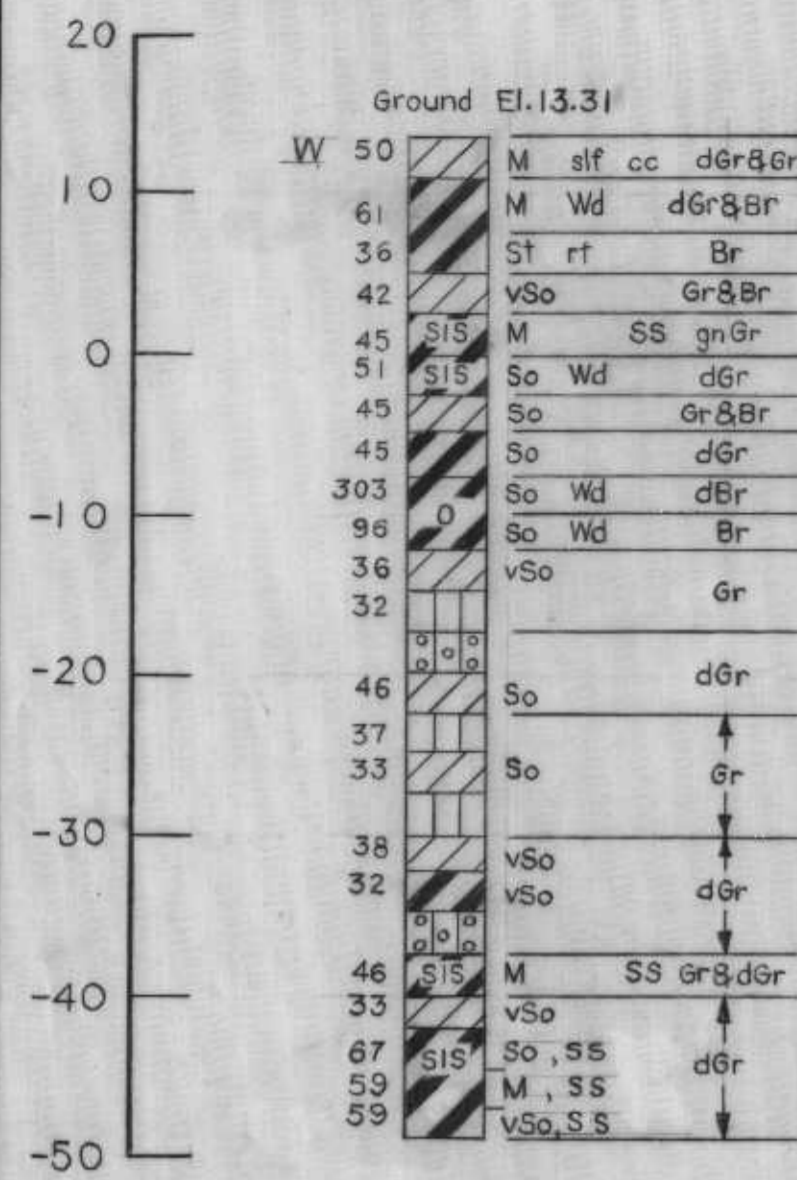
SETTLEMENT GAUGE

REVISION	DATE	DESCRIPTION	BY
DESIGNED:	DRAWN:	CHECKED:	CODE IDENT. NO. SIZE FILE NO.
R.P.L.	G.P.M.	B.S.	H-8-24405
DATE: JUNE 1968		SCALE: SHOWN	SPEC. NO. DACW29-68-B-0172 DWG. NO. 3 OF 10

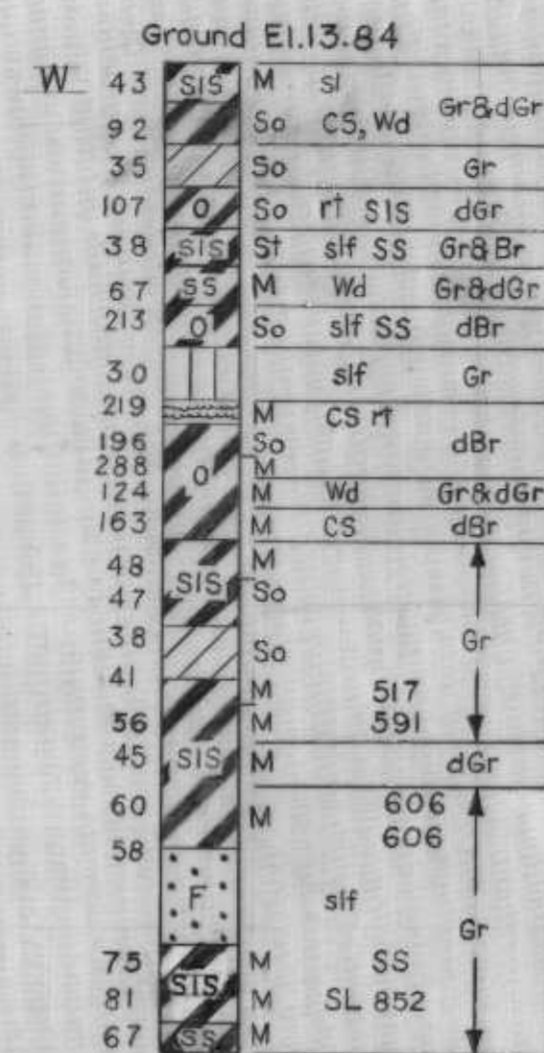
LEVEE DESIGN SECTIONS



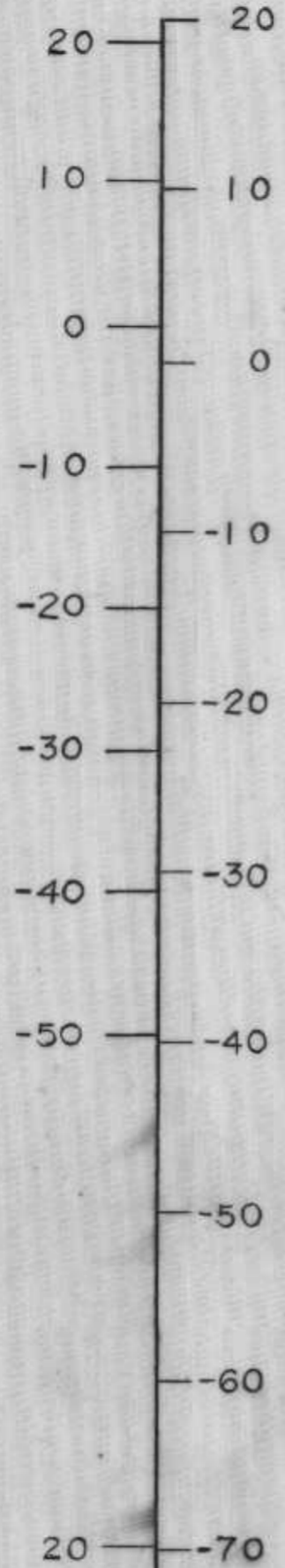
2-M
STA. 528+34
6' F.S. B/L
30 Dec. 1965



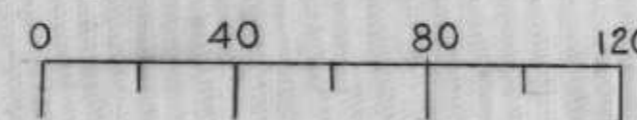
3-M
STA. 548+95
5' F.S. & Levee
7 Jan 1966



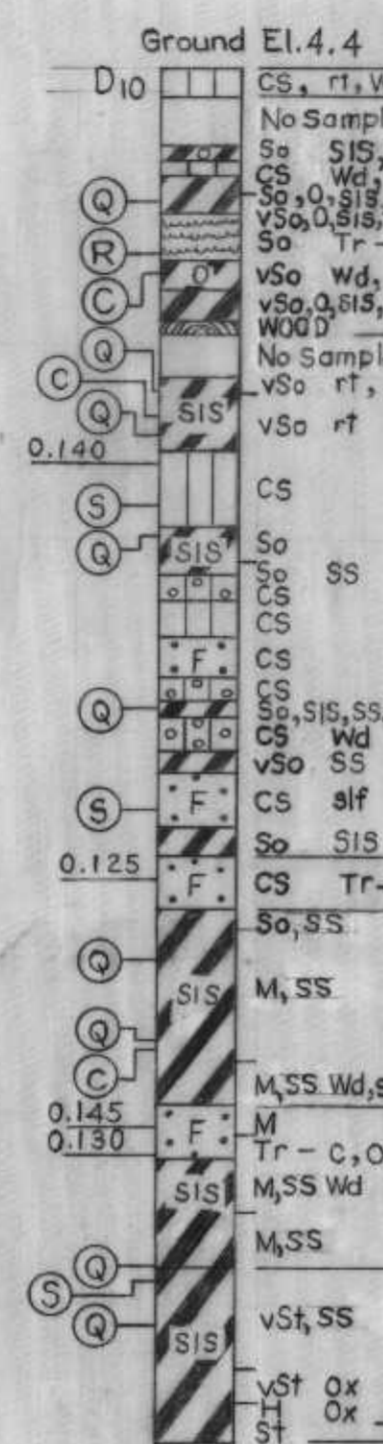
8-MU
STA. 520+00
Levee
22-28 Nov. 1967



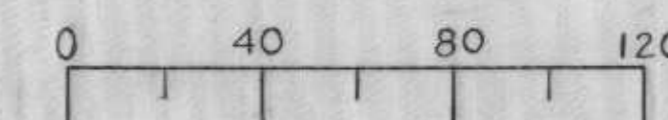
WATER CONTENT, "W"
(Percent dry weight)



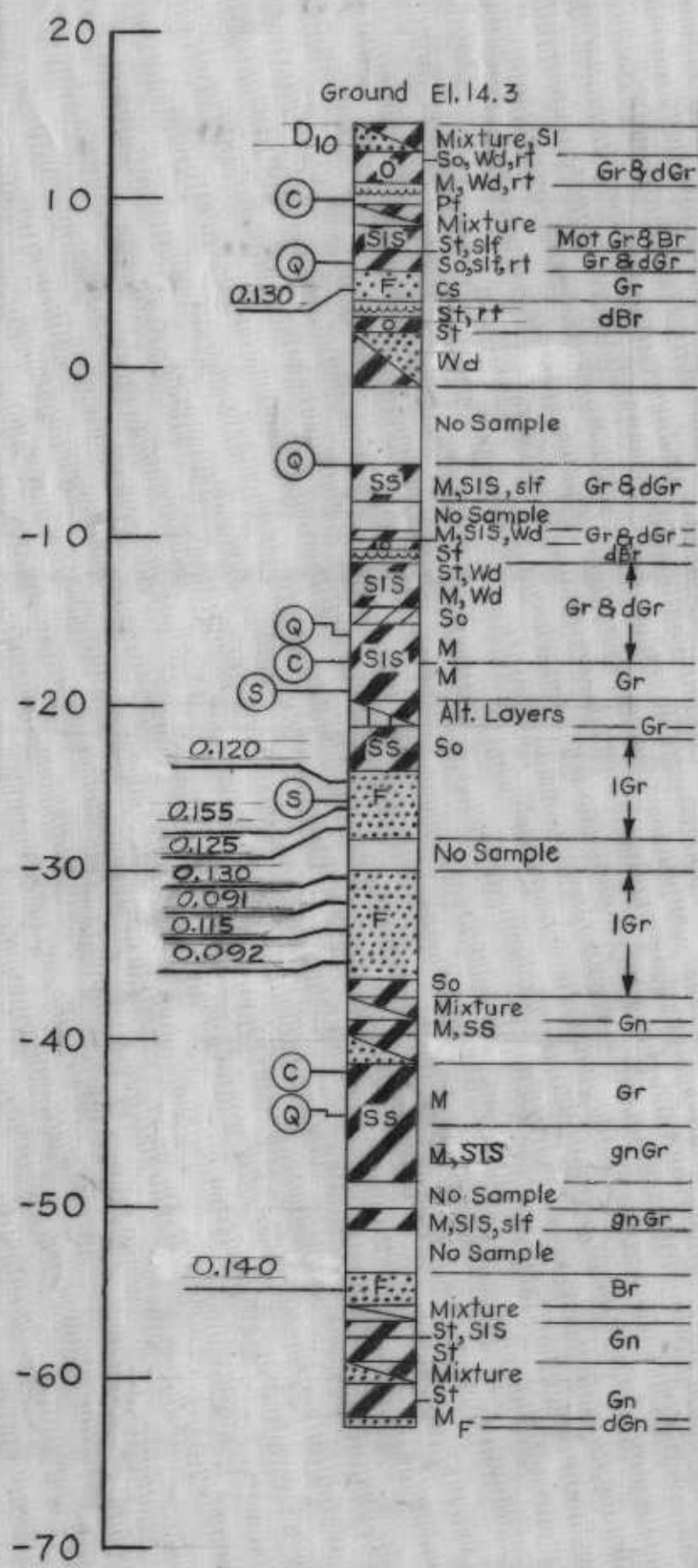
8-MUT
STA. 520+00
38' F.S. & Levee
20-21 Nov. 1967



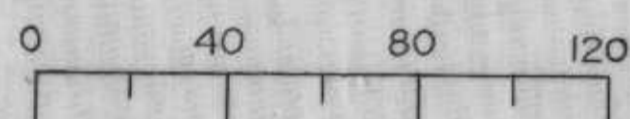
WATER CONTENT "W"
(Percent dry weight)



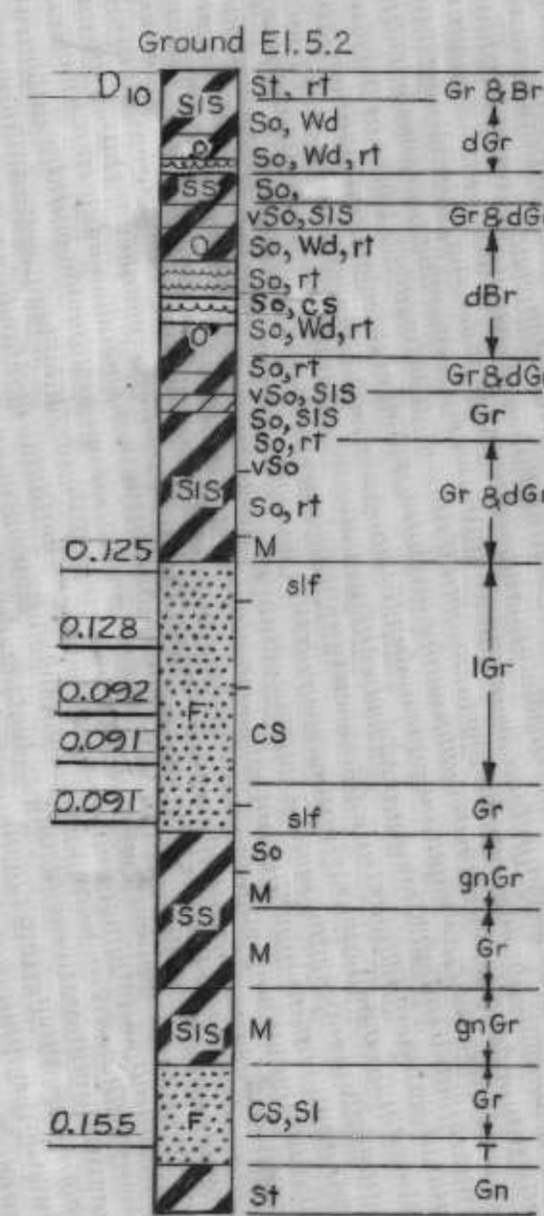
4-MU
STA. 571+45
On B/L
27-29 Dec. 1965



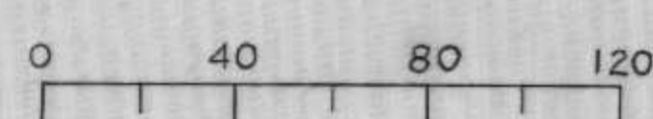
WATER CONTENT, "W"
(Percent dry weight)



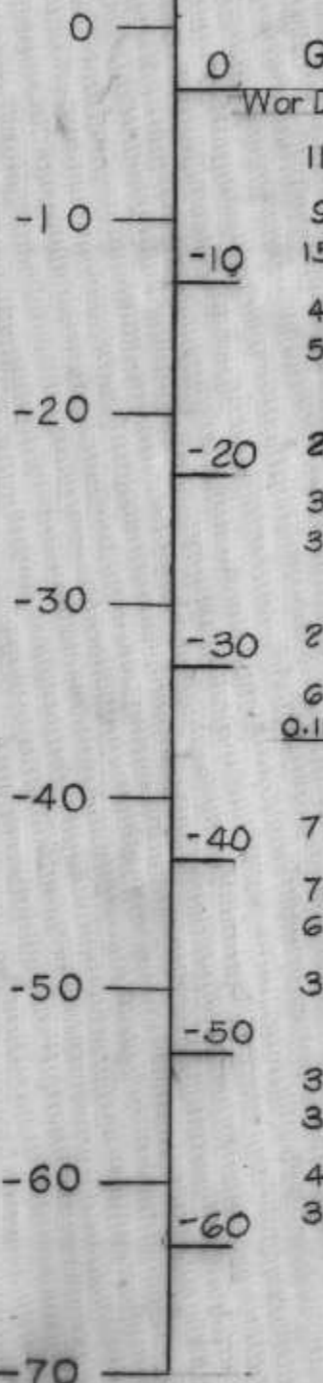
4-MUT
STA. 575+15
60' F.S. B/L
6-9 May 1966



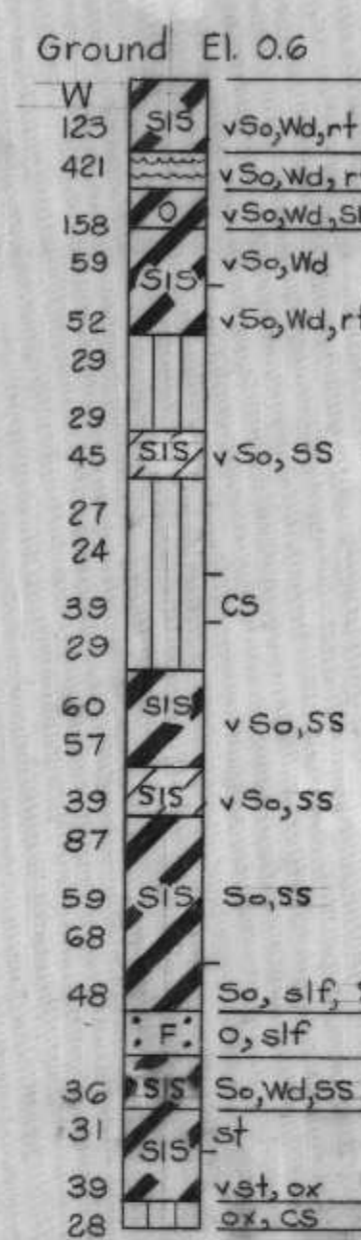
WATER CONTENT, "W"
(Percent dry weight)



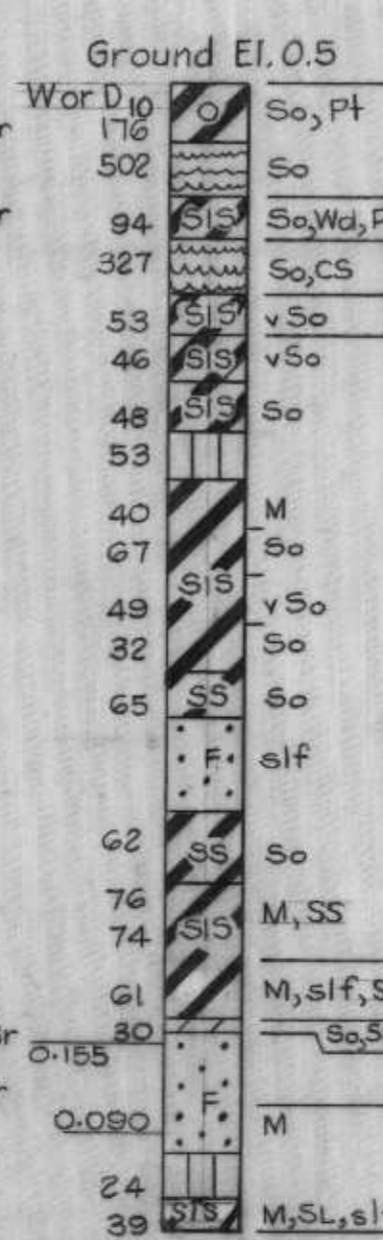
NO. 9
STA. 507+44
168' F.S. B/L
21 Dec. 1967



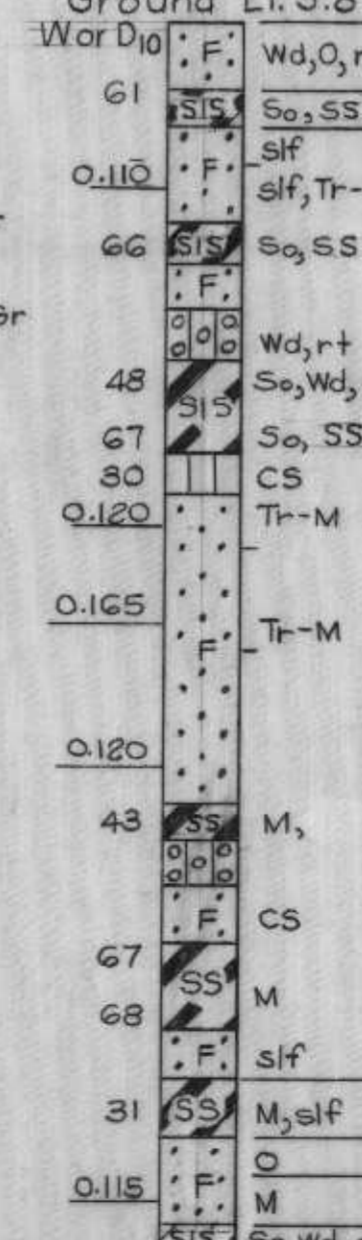
NO. 10
STA. 524+00
135' F.S. B/L
20 Dec. 1967



NO. 11
STA. 551+00
156' F.S. B/L
19 Dec. 1967



NO. 12
STA. 569+00
250' F.S. B/L
2 Jan. 1968



NOTES:

For soil boring legend see Dwg. File No. H-2-21800.
All elevations are expressed in feet and refer to mean sea level.
General type borings were taken with a 1 3/8" I.D. core barrel sampler.
Undisturbed borings taken with a 5" dia. steel tube piston type sampler.

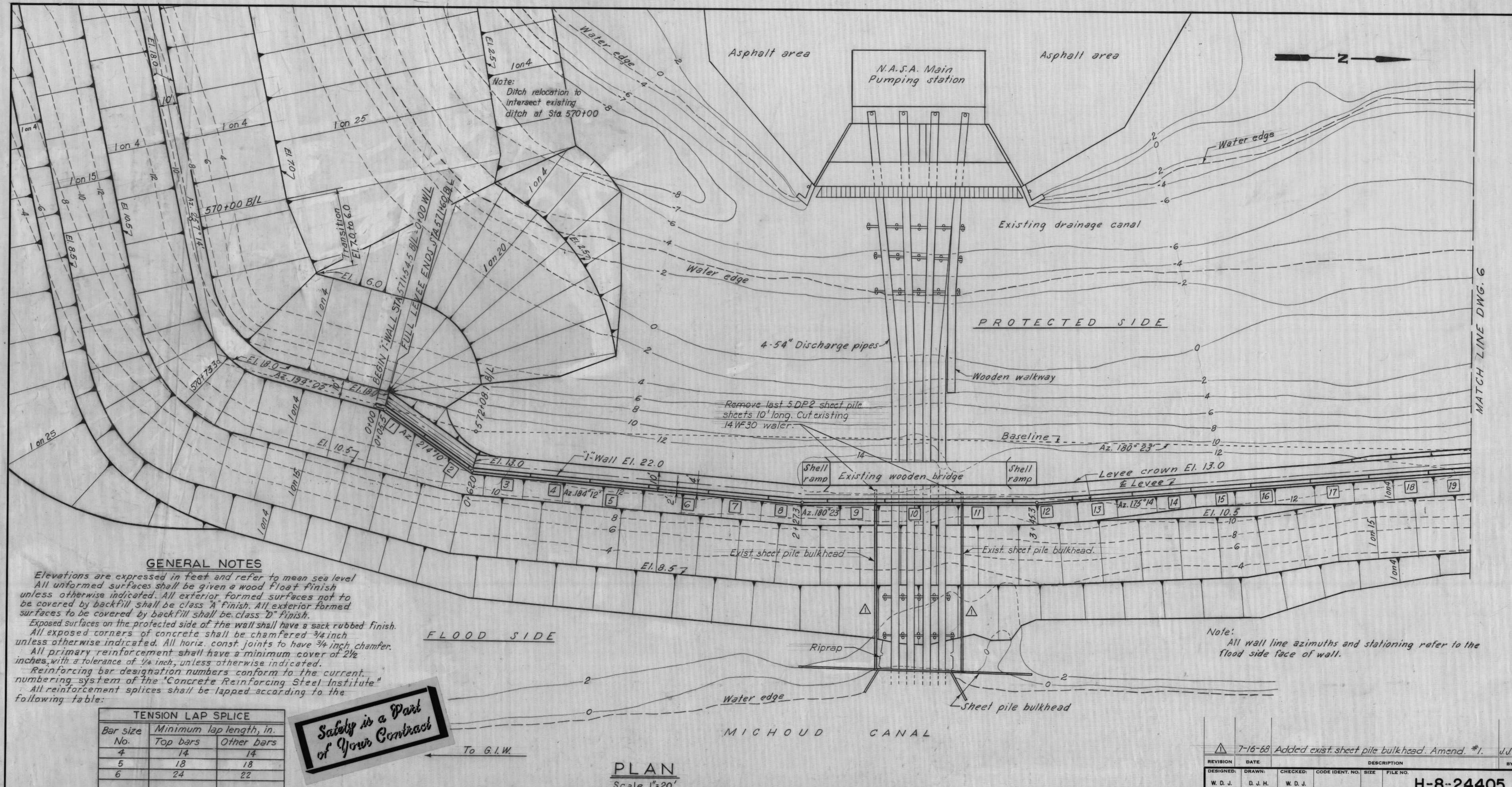
BORINGS ADJACENT TO BORROW AREA

LOG OF SOIL BORINGS

DESIGNED	DRAWN	CHECKED	CODE IDENT. NO.	SIZE	FILE NO.	BY
K. J. C.	S. O. M.	E. B. K.				
DATE: JUNE 1968			SCALE: SHOWN	SPEC. NO. DACW269-68-B-0172	DWG. NO. 4 OF 10	

H-8-24405





Note:
Ditch relocation to intersect existing ditch at Sta. 570+00

Remove last 5 DP2 sheet pile sheets 10' long. Cut existing 14WF30 walr.

Note:
All wall line azimuths and stationing refer to the flood side face of wall.

GENERAL NOTES

Elevations are expressed in feet and refer to mean sea level
 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.
 Exposed surfaces on the protected side of the wall shall have a sack rubbed finish.
 All exposed corners of concrete shall be chamfered 3/4 inch unless otherwise indicated. All horiz. const. joints to have 3/4 inch chamfer.
 All primary reinforcement shall have a minimum cover of 2 1/2 inches with a tolerance of 1/4 inch, unless otherwise indicated.
 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 table:

TENSION LAP SPLICE		
Bar size	Minimum lap length, in.	
No.	Top bars	Other bars
4	14	14
5	18	18
6	24	22

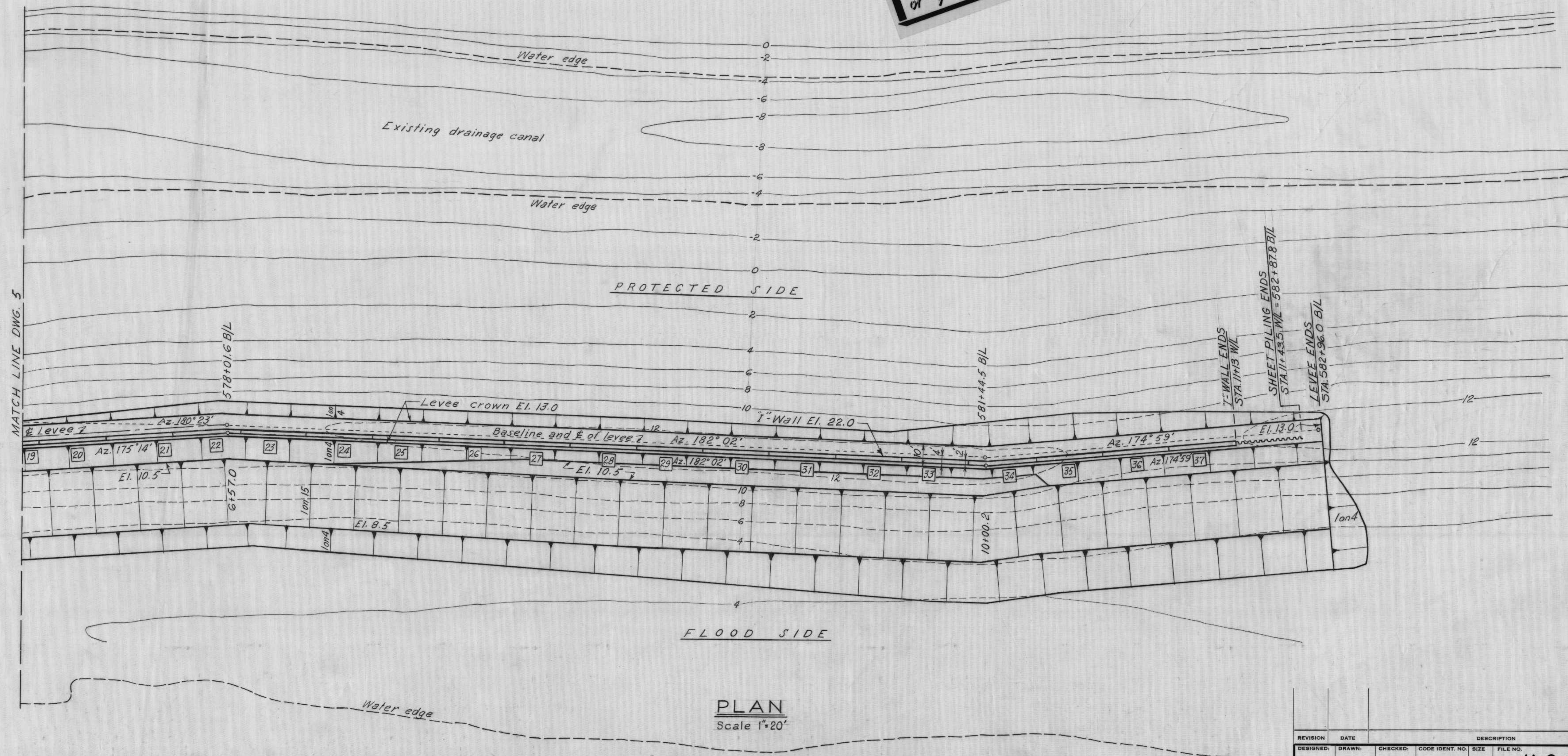
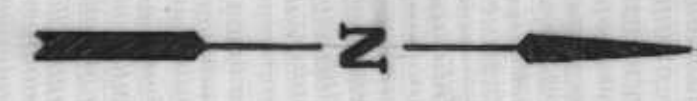
Safety is a Part of Your Contract

PLAN
Scale 1"=20'

FLOODWALL ALIGNMENT

DESIGNED:	DRAWN:	CHECKED:	CODE IDENT. NO.	SIZE	FILE NO.
W. D. J.	D. J. H.	W. D. J.			
DATE: JUNE 1968					
SCALE: SHOWN					
SPEC. NO. DACW29-68-B-0172					
DWG. NO. 5 OF 10					

Safety is a Part of Your Contract



MATCH LINE DWG. 5

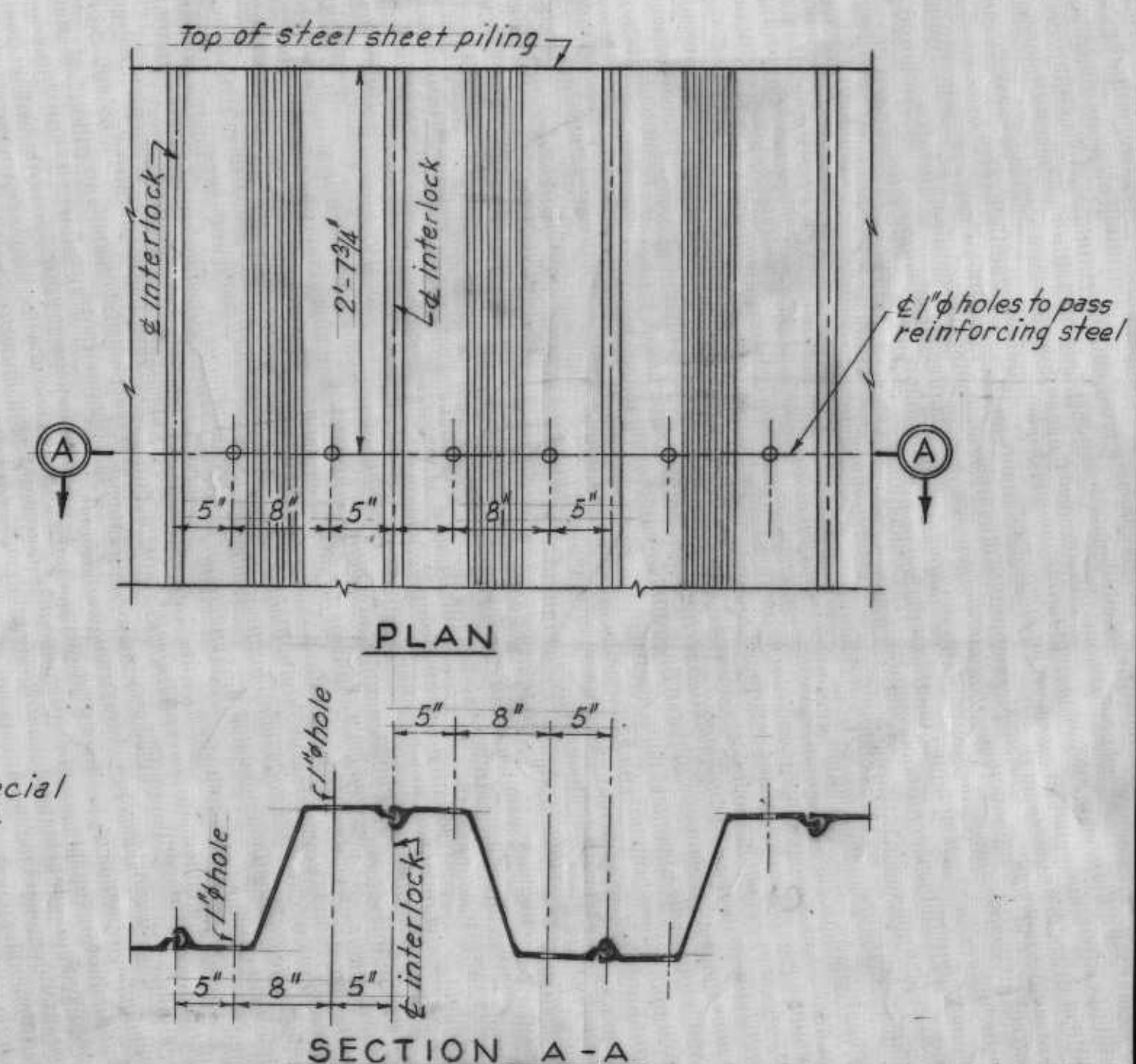
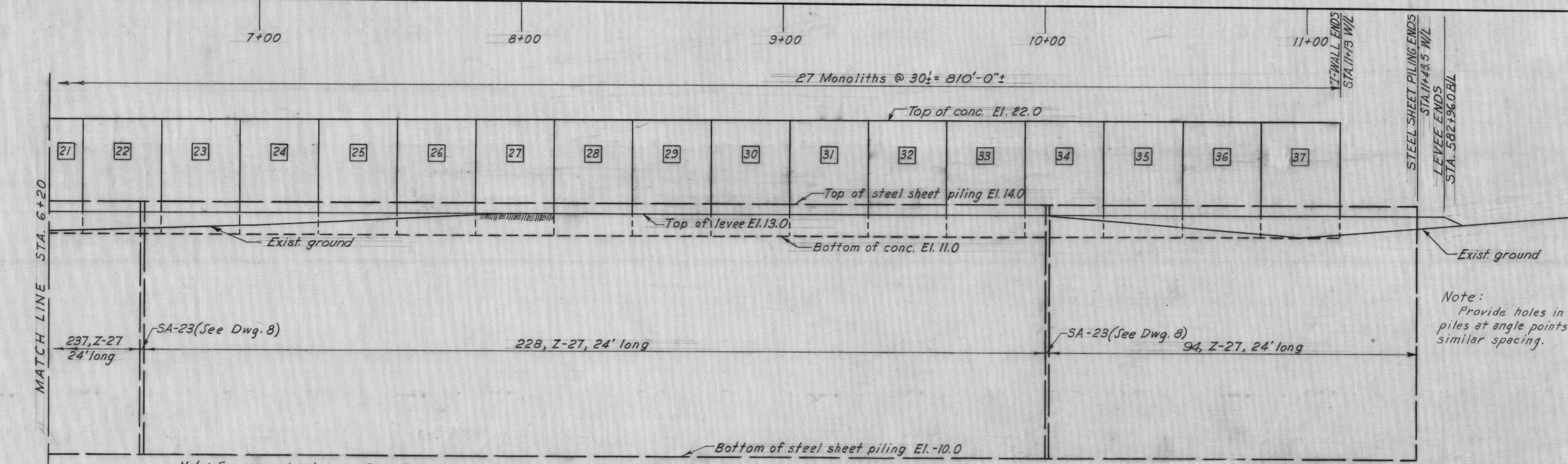
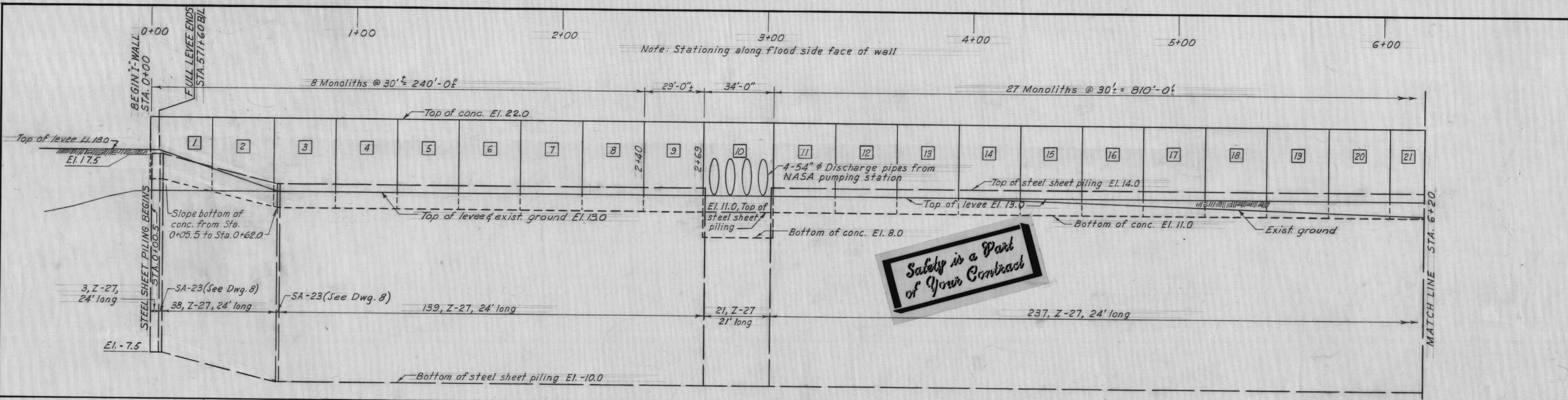
PLAN
Scale 1"=20'

FLOODWALL ALIGNMENT

REVISION	DATE	DESCRIPTION	BY
DESIGNED:	DRAWN:	CHECKED:	CODE IDENT. NO.
W. D. J.	D. J. H.	W. D. J.	
DATE: JUNE 1968			SCALE: SHOWN
SPEC. NO. DACW29-68-B-0172			DWG. NO. 6 OF 10

H-8-24405

CITRUS BACK LEVEE (MICHOU SLIP TO MICHOU CANAL)

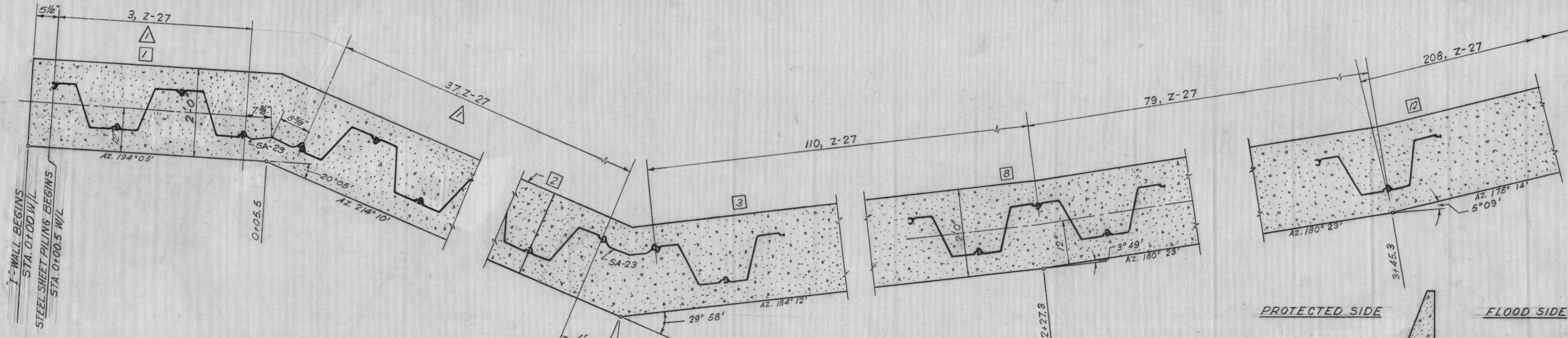


Note: For general notes see Dwg. 5.
 For detail of discharge pipes see Dwg. 10.
 Lengths of monoliths, except for monolith 10, will be adjusted in the field so that the monolith joints fall on the centerlines of sheet pile interlocks.
 For settlement reference marker details and schedule, see Dwg. 8.

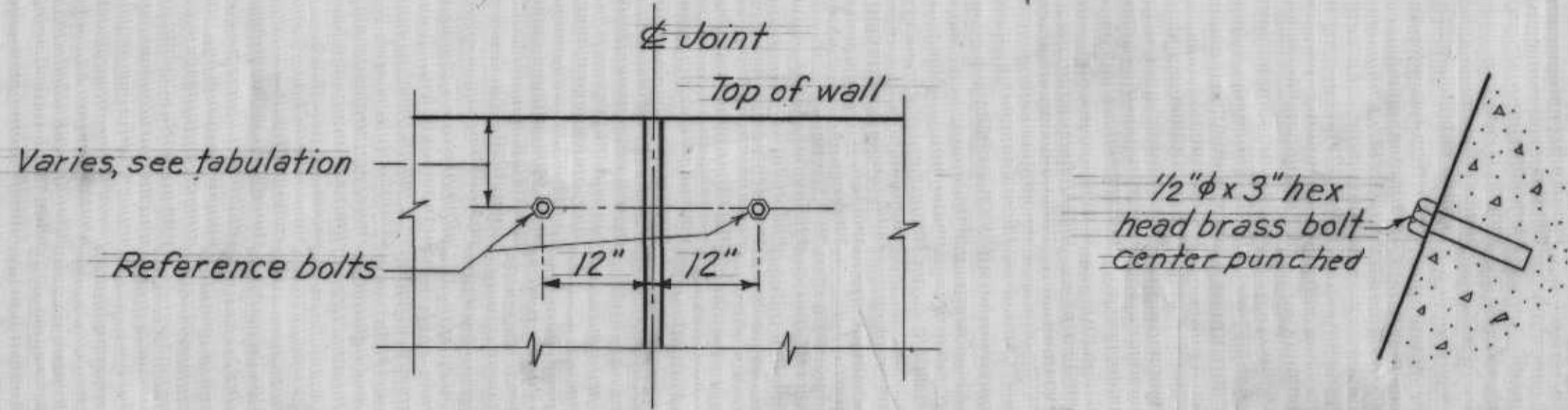
PROFILE
 Scale: Hor. 1" = 20'
 Vert. 1" = 5'

FLOODWALL PROFILE

REVISION	DATE	DESCRIPTION	BY
DESIGNED:	DRAWN:	CHECKED:	CODE IDENT. NO. SIZE FILE NO.
W. D. J.	D. J. H.	W. D. J.	H-8-24405
DATE: JUNE 1968		SCALE: SHOWN	SPEC. NO. DACW28-68-B-0172 DWG. NO. 7 OF 10



Note:
Sta. 0+00 W/L = sta. 571+54.5 B/L

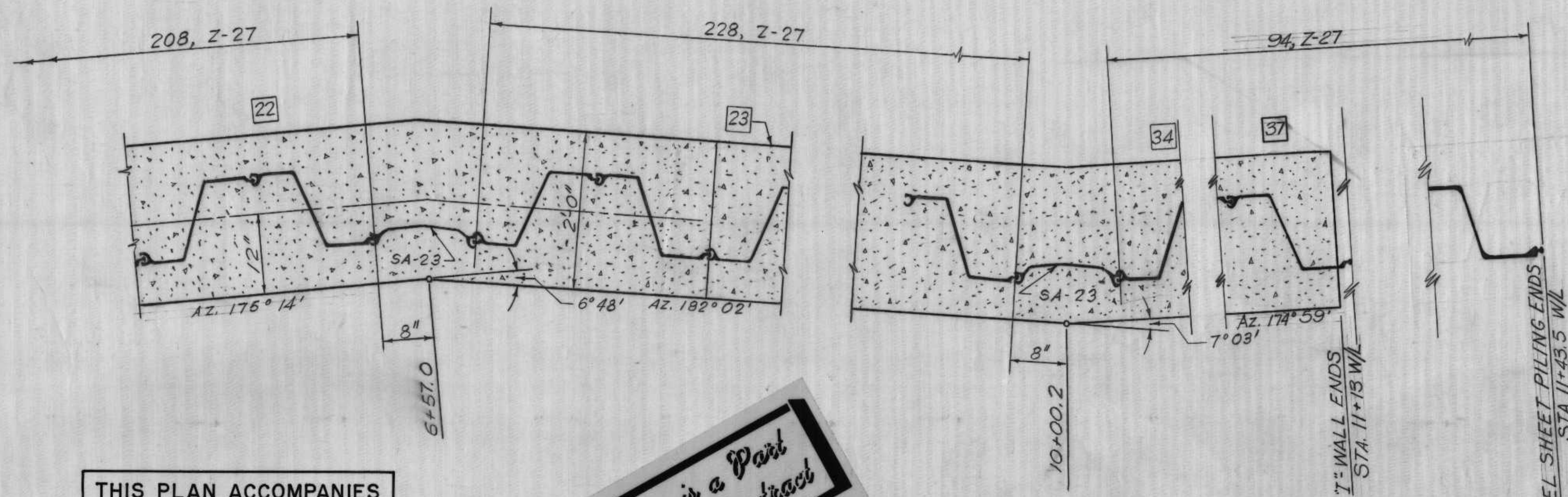


ELEVATION TYPICAL REFERENCE MARKER
Scale: 3/4" = 1'-0"

REFERENCE MARKER

Note: Reference bolts are to be located as indicated on details; stations on bolt schedule give approximate location only. Stations will vary due to adjustment of monolith length.

Note:
No. 6 reinf. rod welded to the top of each sheet pile. Flexible jumpers shall be installed at the monolith joints, formed in an 8" dia. loop, and welded or brazed to adjacent sheet piles 3" below the bottom of the concrete.



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

BOLT NO.	APPROX. W/L STATION	DISTANCE BELOW TOP OF WALL	BOLT NO.	APPROX. W/L STATION	DISTANCE BELOW TOP OF WALL
33-S	0+01	1'	45-S	4+24	4'
34-S	0+59		46-S	5+42	
35-S	0+61	47-S	5+44		
36-S	1+19	48-S	6+62		
37-S	1+21	49-S	6+64		
38-S	1+79	50-S	7+82		
39-S	1+81	51-S	7+84		
40-S	2+68	52-S	9+02		
41-S	2+70	53-S	9+04		
42-S	3+02	54-S	10+22		
43-S	3+04	55-S	10+24		
44-S	4+22	56-S	11+12		

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

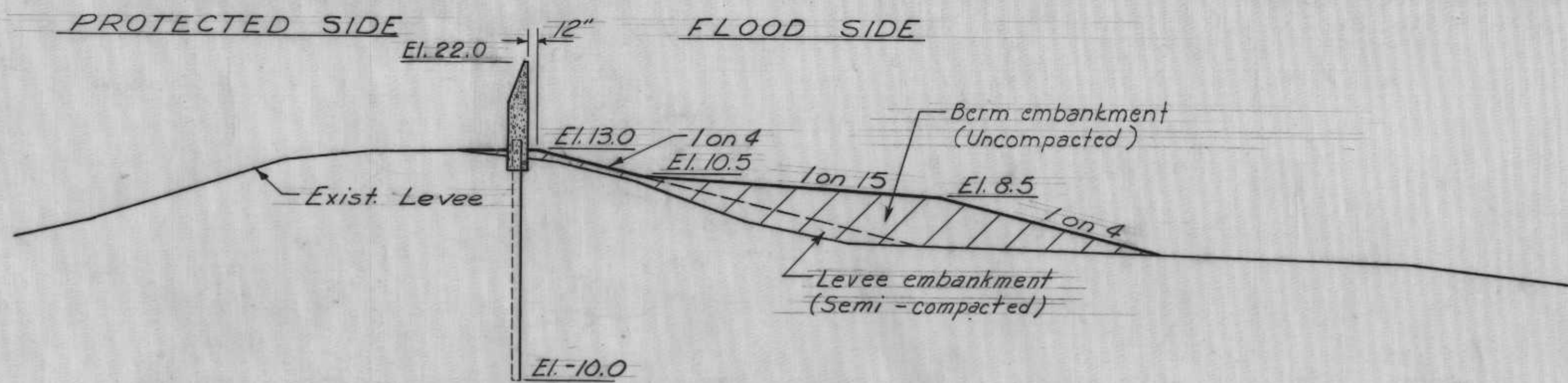
Note:
For general notes see Dwg. 5

THIS PLAN ACCOMPANIES MODIFICATION POOL TO CONTRACT NO. DACW29-69-C-0018.

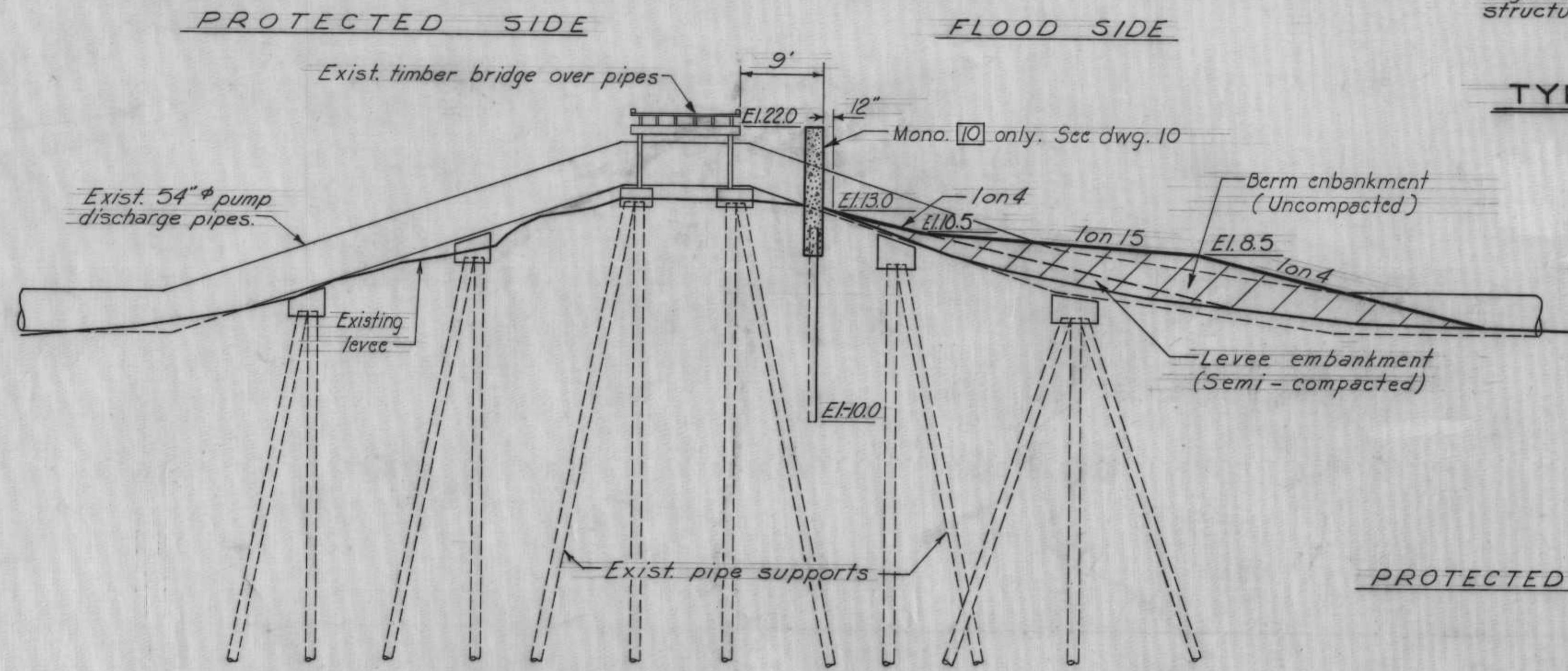
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STEEL SHEET PILING LAYOUT AND REFERENCE MARKERS

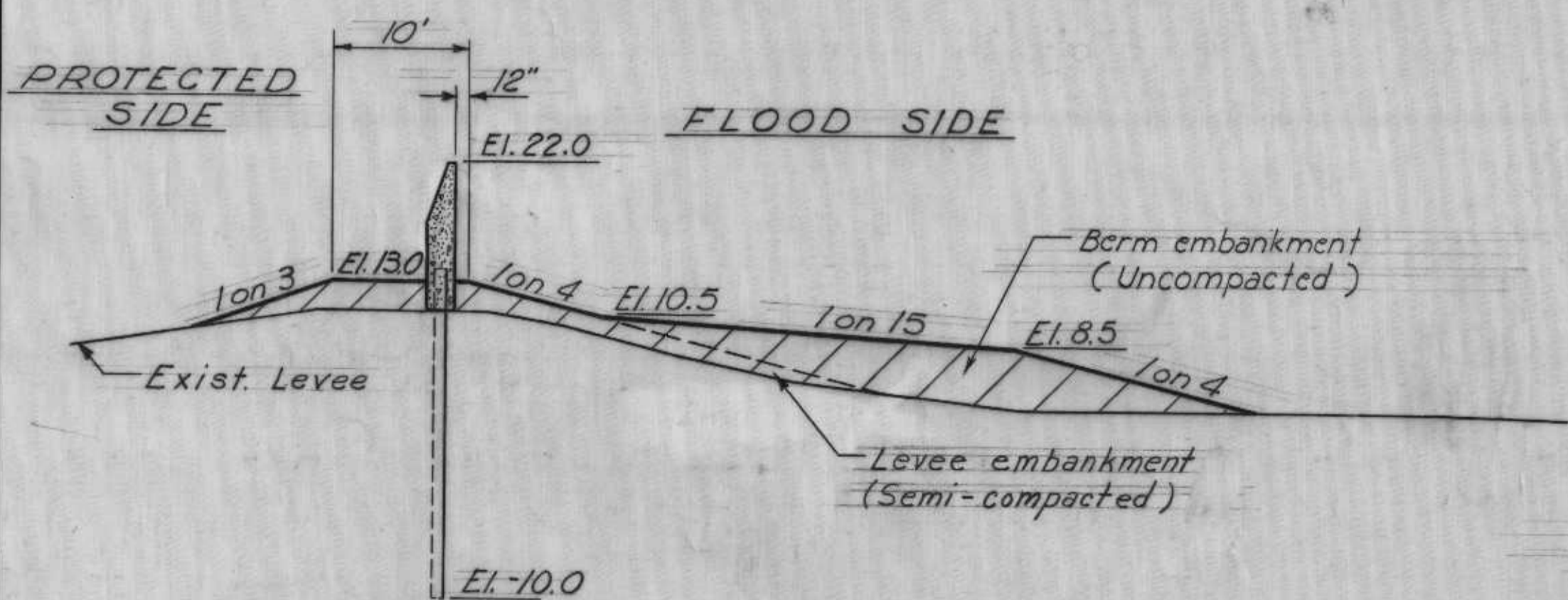
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W. D. J.	E. J. C.	W. D. J.			H-8 24405
DATE: JUNE 1968		SCALE: SHOWN		SPEC. NO. DACW29-68-B-0172 DWG. NO. 8 OF 10	



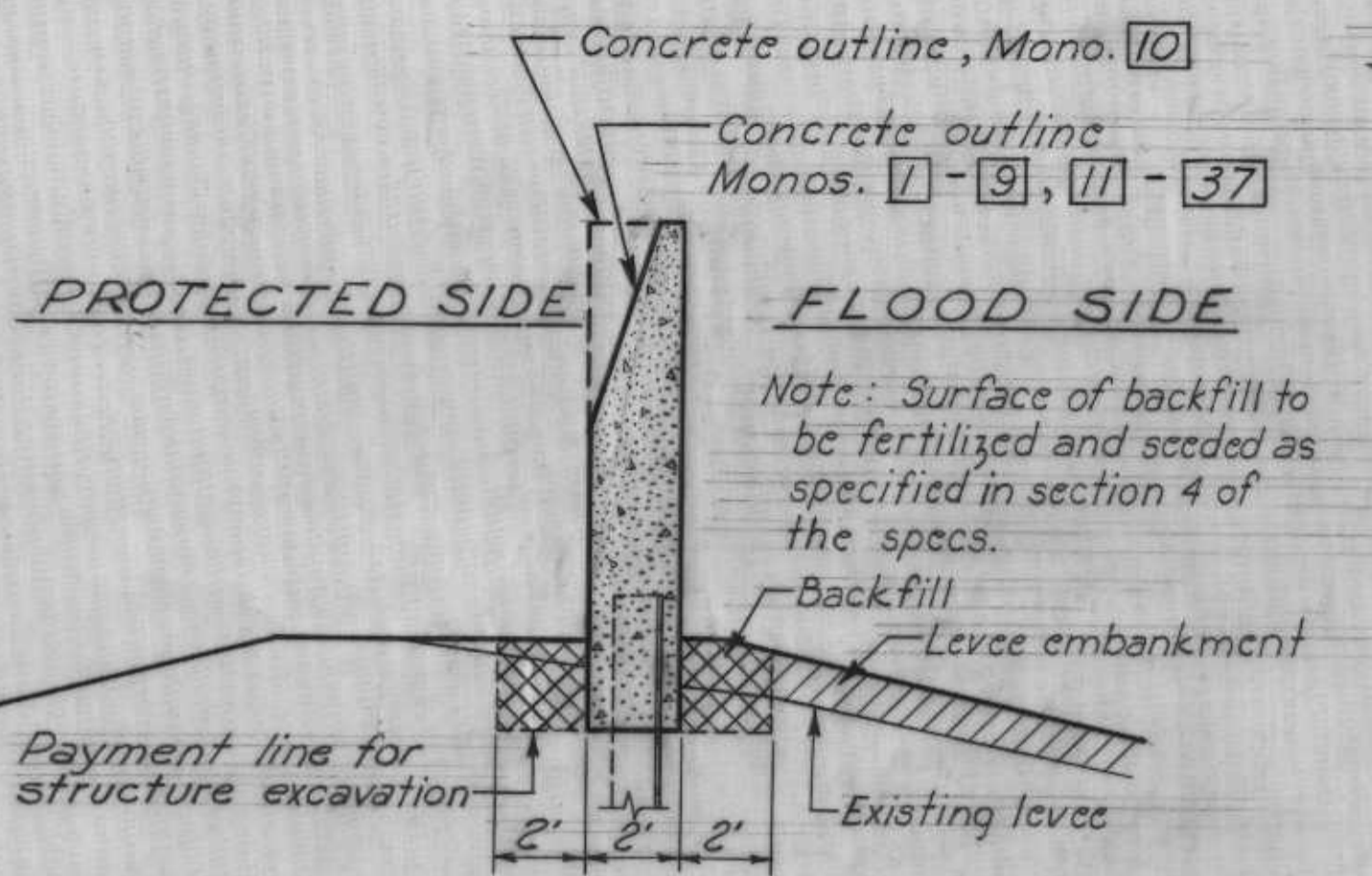
WALL LINE STA. 0+62 TO 2+69 & 3+03 TO 4+90
FOR TRANSITION FROM W/L STA. 0+05.5 TO 0+62.0 SEE DWG. 5 & 7



WALL LINE STA. 2+69 TO 3+03



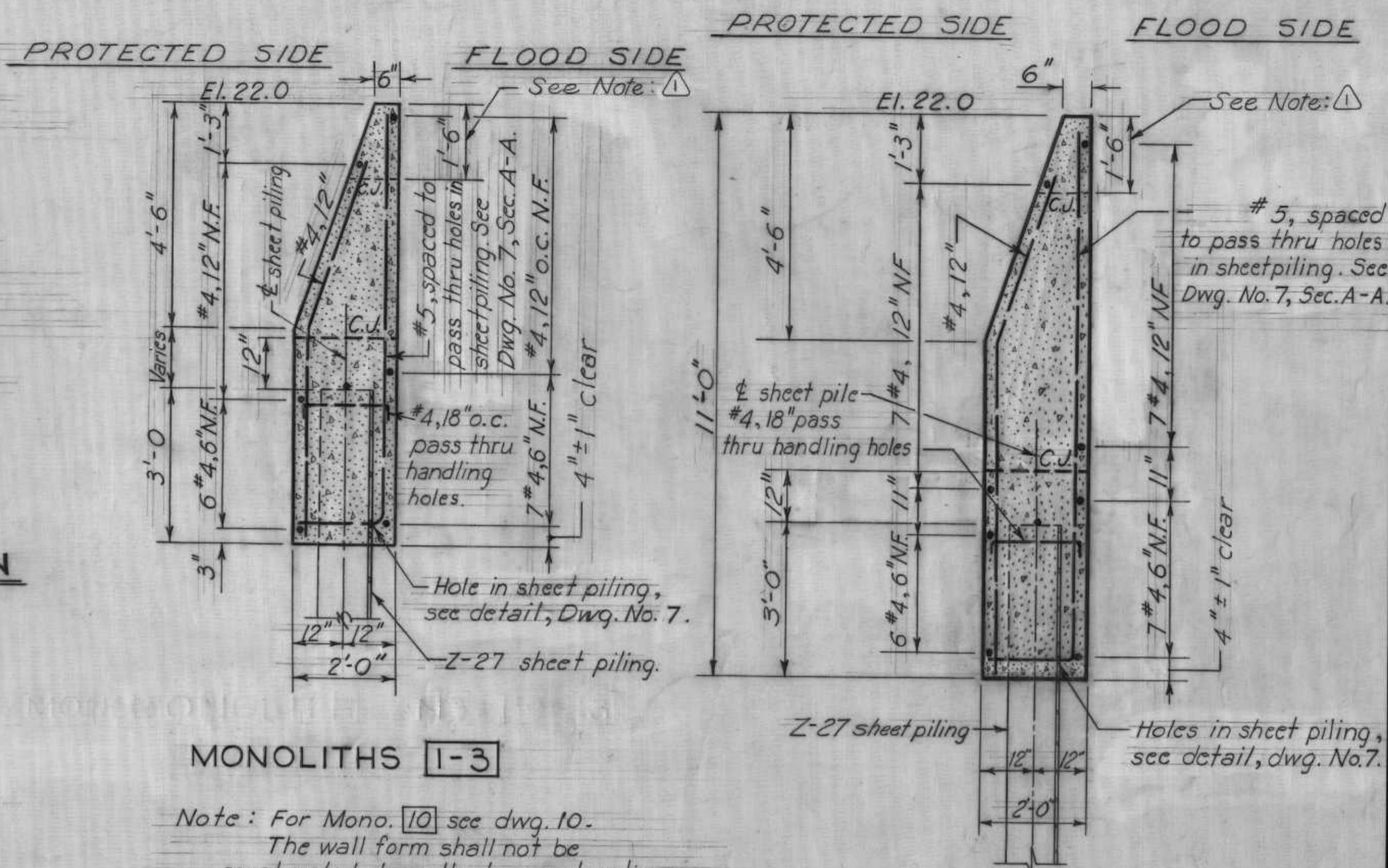
WALL LINE STA. 4+90 TO 11+13
I WALL ENDS AT W/L STA. 11+13
SHEET PILING ENDS W/L STA. 11+43.5
LEVEE ENDS AT B/L STA. 582+96



TYPICAL STRUCTURE EXCAVATION
Scale: 1/4" = 1'-0"

Note: Construction joints 1'-6" from top of "I" wall may be optionally deleted. The chamfer nevertheless, shall be cast into the concrete as shown on drawing.

THIS PLAN ACCOMPANIES MODIFICATION P003 TO CONTRACT NO. DACW29-69-C-0018



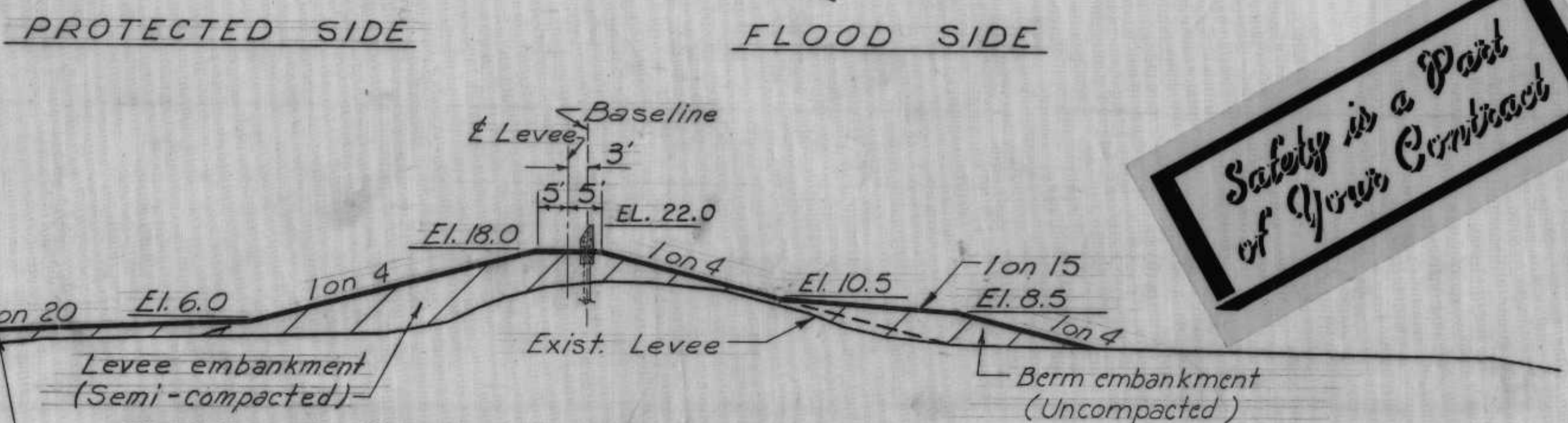
MONOLITHS 1-3

Note: For Mono. 10 see dwg. 10. The wall form shall not be constructed above the top construction joint until after the lower lift has been placed.

MONOLITHS 4-9 AND 11-37

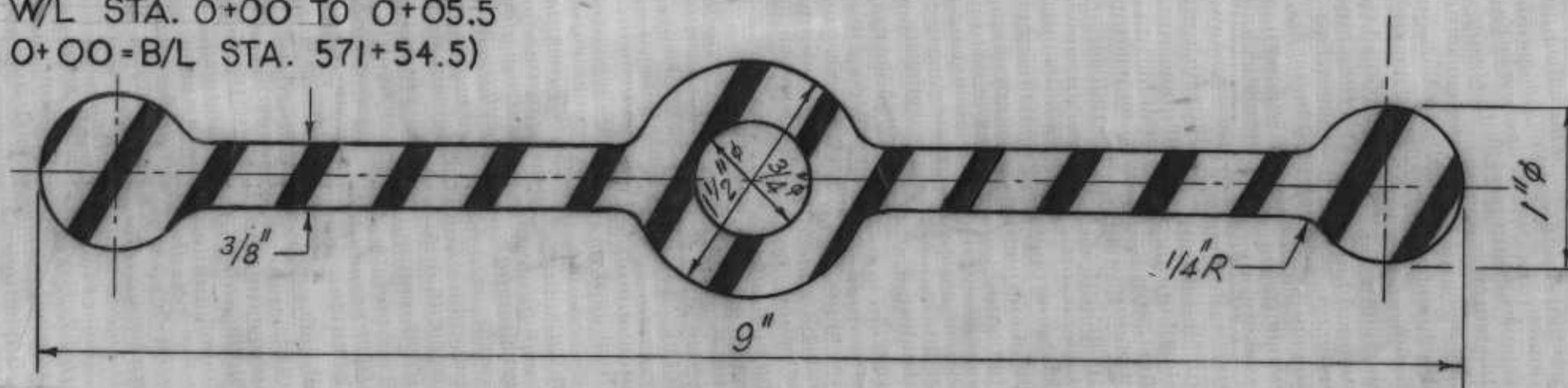
TYPICAL WALL SECTIONS

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



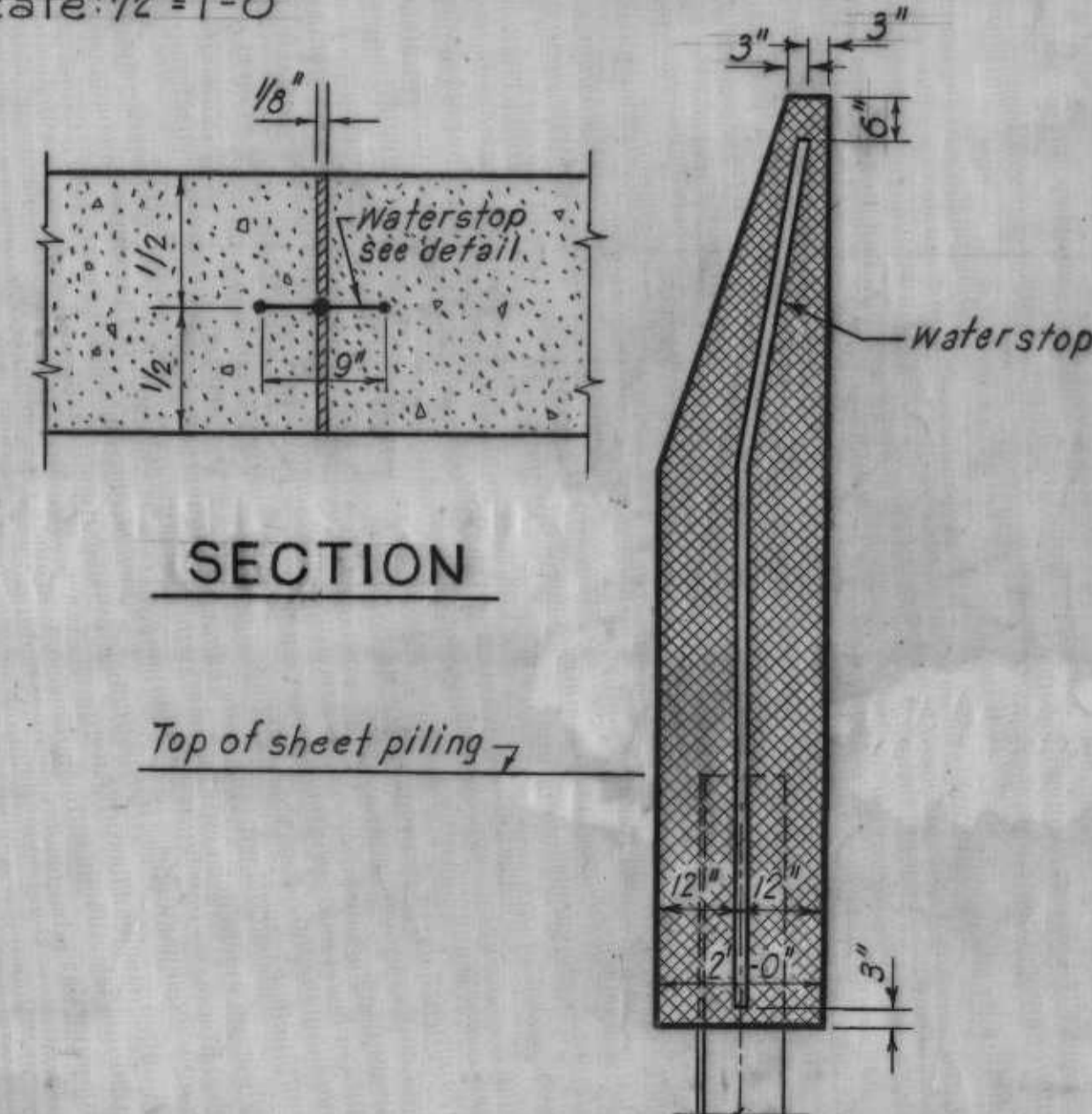
BASELINE STA. 571+00 TO 571+60
FULL LEVEE STA. 571+00 TO 571+60
I WALL W/L STA. 0+00 TO 0+05.5
(W/L STA. 0+00-B/L STA. 571+54.5)

Notes:
For general notes see Dwg. 5
No adjacent flood-side borrow permitted for the earthwork shown on the floodwall sections hereon. Borrow material to be obtained from the borrow area designated on Dwg. No. 2 and hauled or barged in place.



WATERSTOP

Scale: Full Size

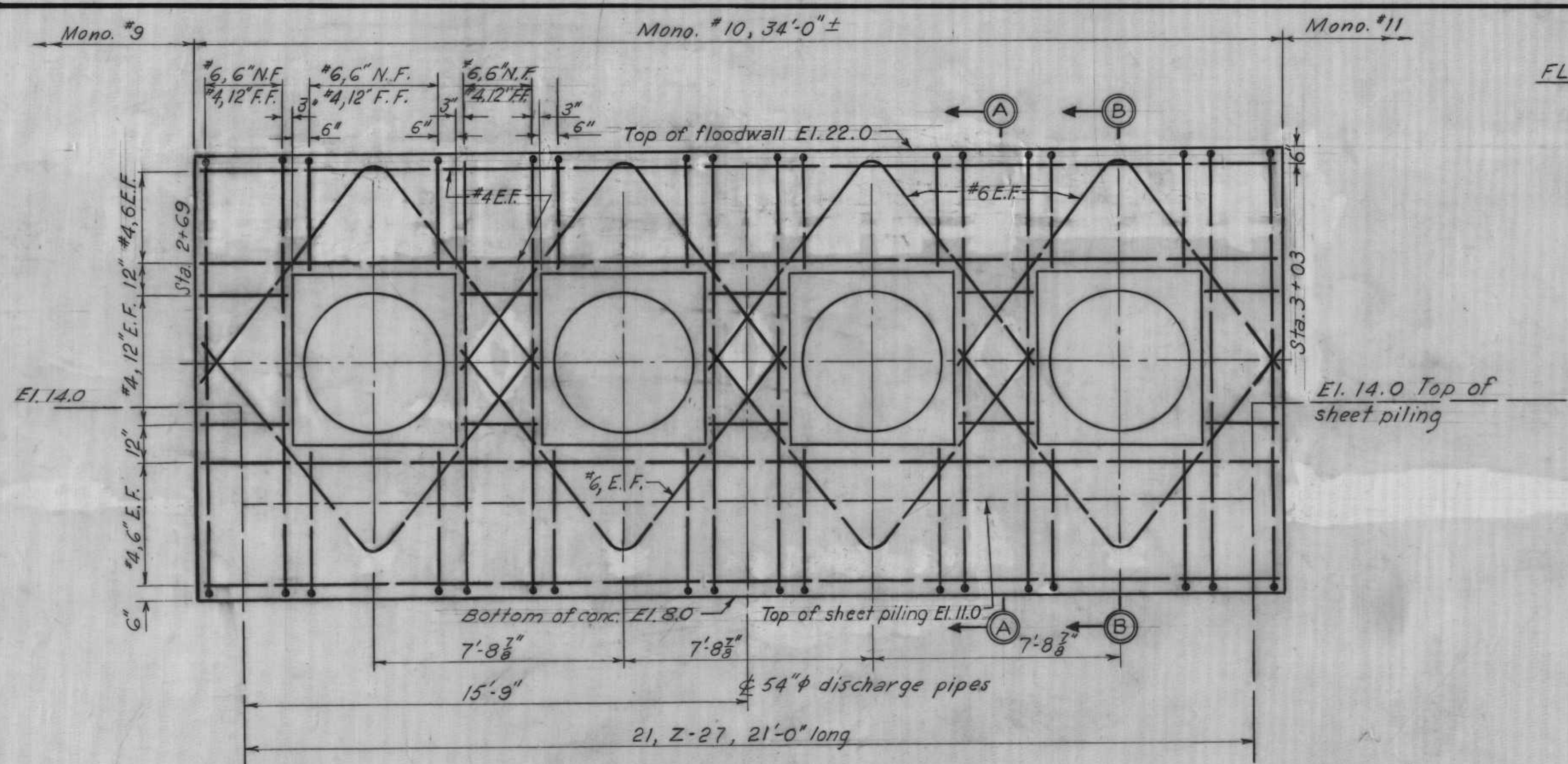


TYPICAL MONOLITH JOINT

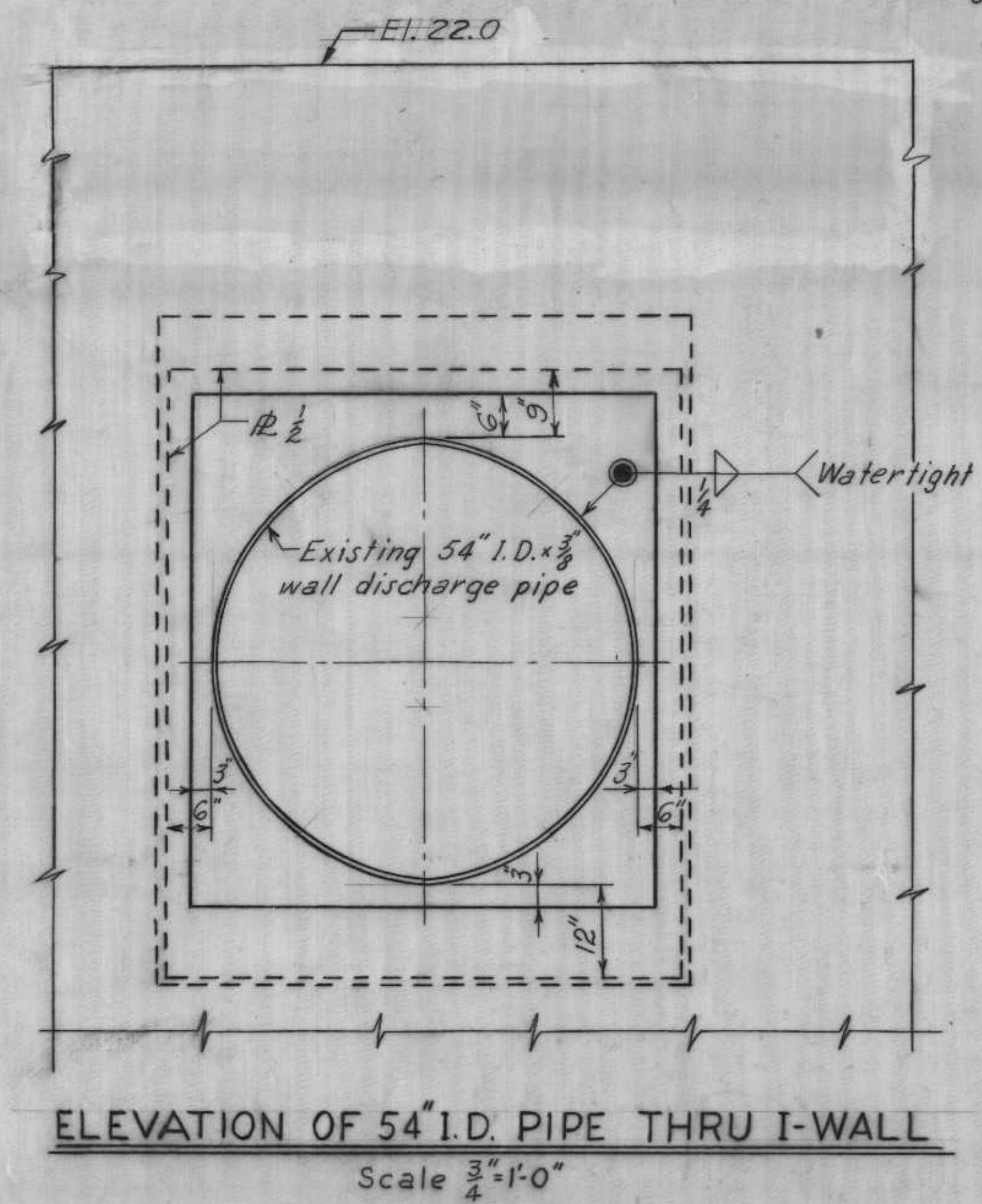
Scale: 1/2" = 1'-0"

TYPICAL FLOODWALL AND DETAIL SECTIONS

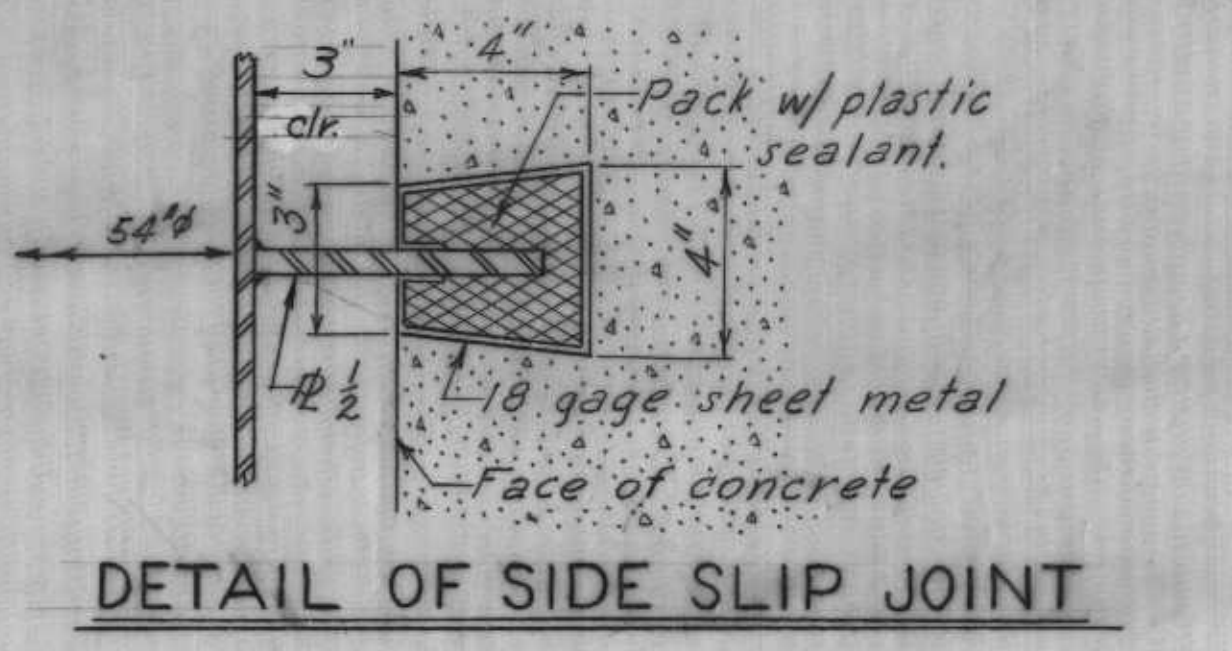
REVISION	DATE	CHECKED	CODE IDENT. NO.	SIZE	FILE NO.	BY
4-28-69	Added note (Mod. No. 3)					
DESIGNED:	DRAWN:	CHECKED:	CODE IDENT. NO.	SIZE	FILE NO.	
W. D. J.	J. J. P.	W. D. J.				
H-8-24405						
DATE: JUNE 1968		SCALE: SHOWN		SPEC. NO. DACW29-68-B-0172		DWG. NO. 9 OF 10



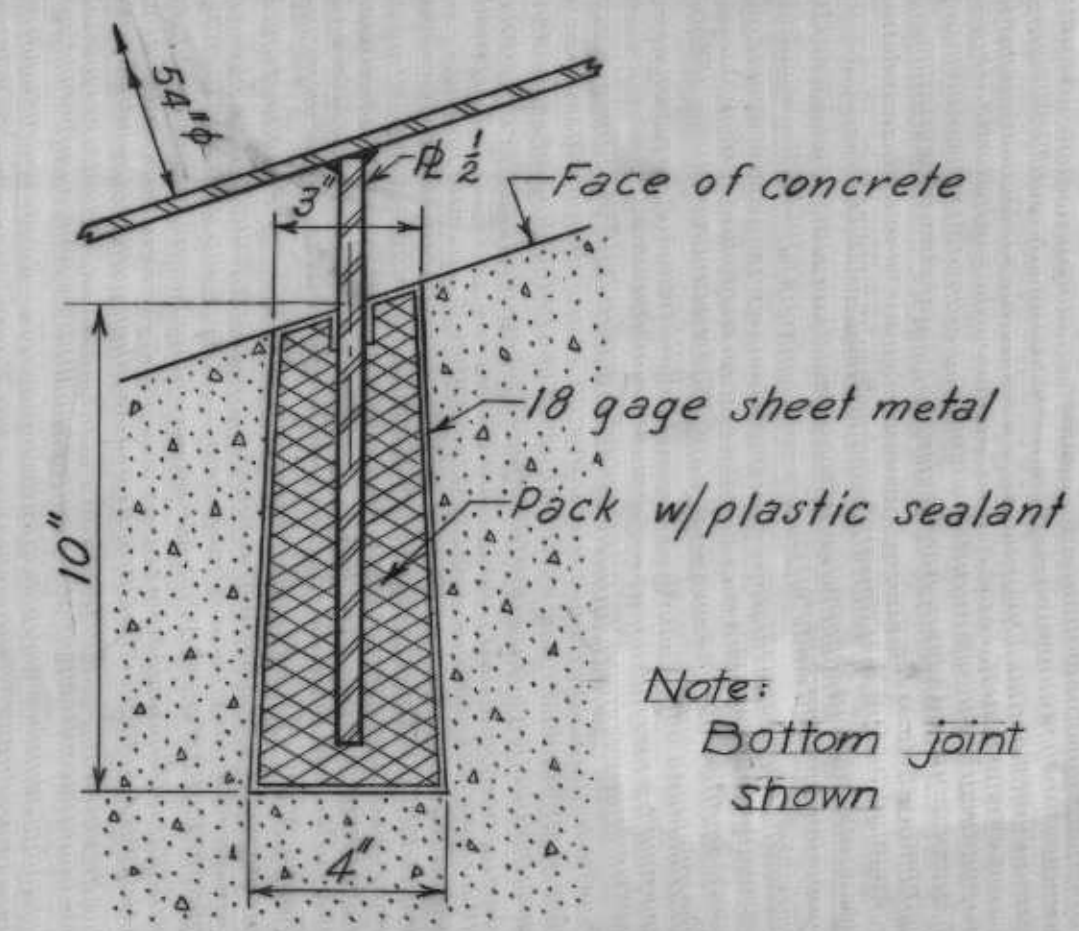
FLOOD SIDE ELEVATION
Scale $\frac{3}{8}'' = 1'-0''$



ELEVATION OF 54" I.D. PIPE THRU I-WALL
Scale $\frac{3}{4}'' = 1'-0''$



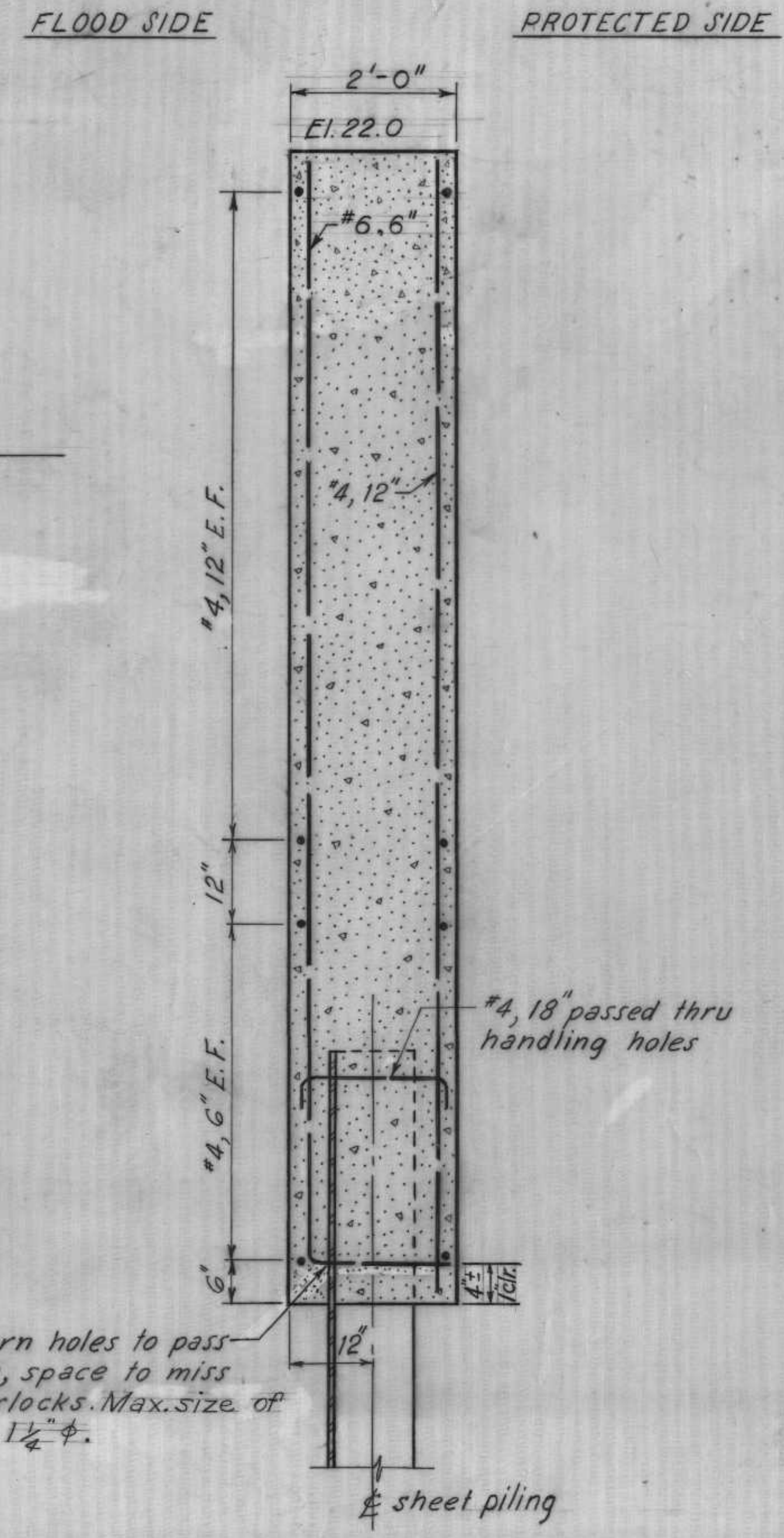
DETAIL OF SIDE SLIP JOINT



DETAIL OF TOP AND BOTTOM SLIP JOINT
Scale $3'' = 1'-0''$

Burn holes to pass bars, space to miss interlocks. Max. size of hole $1\frac{1}{4}'' \phi$.

Note:
Bottom joint shown



SECTION A-A
Scale $\frac{3}{4}'' = 1'-0''$

SECTION B-B
Scale $\frac{3}{4}'' = 1'-0''$

Burn holes to pass bars, space to miss interlocks.

Safety is a Part of Your Contract

Note:
For general notes see Dwg. 5.

WALL AT DISCHARGE PIPES-MONOLITH 10

REVISION	DATE	DESCRIPTION	BY
DESIGNED: W. D. J.	DRAWN: D. J. H.	CHECKED: W. D. J.	CODE IDENT. NO. SIZE FILE NO.
DATE: JUNE 1968			SCALE: SHOWN SPEC. NO. DACW29-68-B-0172 DWG. NO. 10 OF 10

H-8-24405