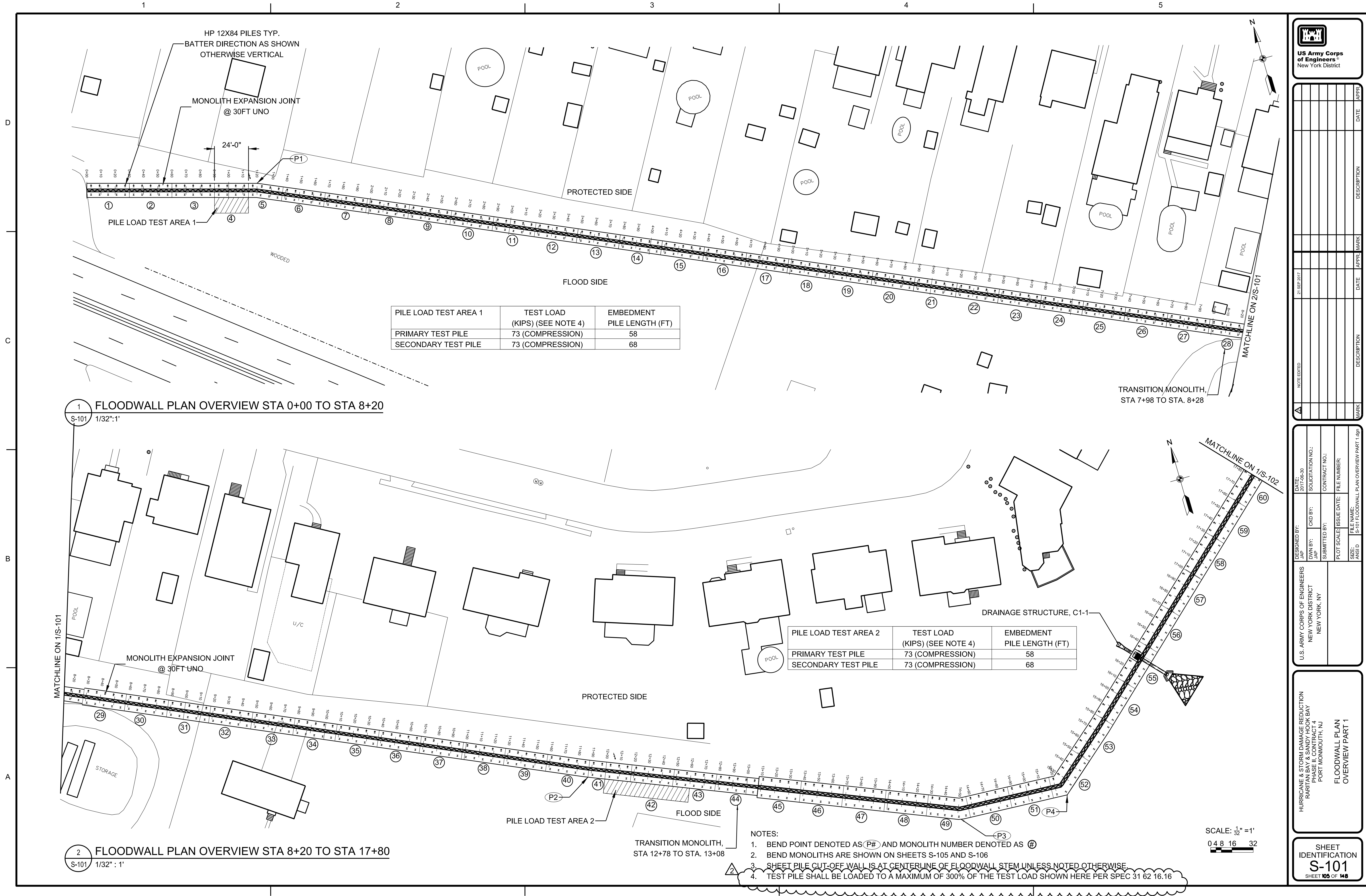


I. DESIGN LOADS:

A. DEAD LOAD

- 1) BROADWAY GATE WEIGHT= 18KIP (APPROX)
2) CAMPBELL GATE WEIGHT= 54KIP (APPROX)



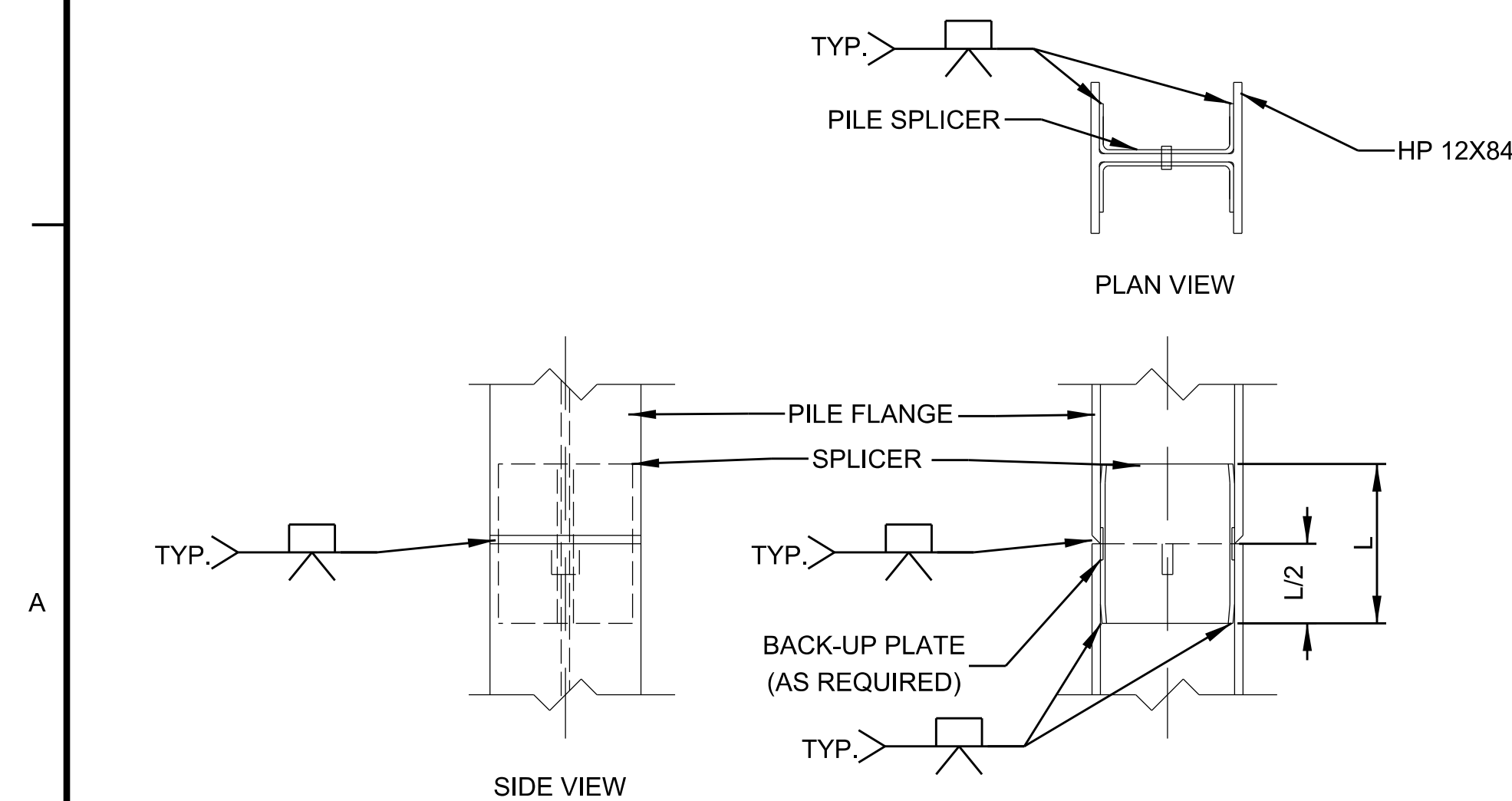
NOTED/EDITED	DATE	DESCRIPTION	APPR.	DATE	DESCRIPTION	APPR.
17 SEP 2017						

DESIGNED BY: JAP	DATE: 20170630	SOLICITATION NO.:	CONTRACT NO.:
DRAWN BY: JAN	CHKD BY:		
U.S. ARMY CORPS OF ENGINEERS NEW YORK DISTRICT NEW YORK, NY	SUBMITTED BY:	PLOT SCALE: ISSUE DATE:	FILE NUMBER:
		SIZE: ANSI D	

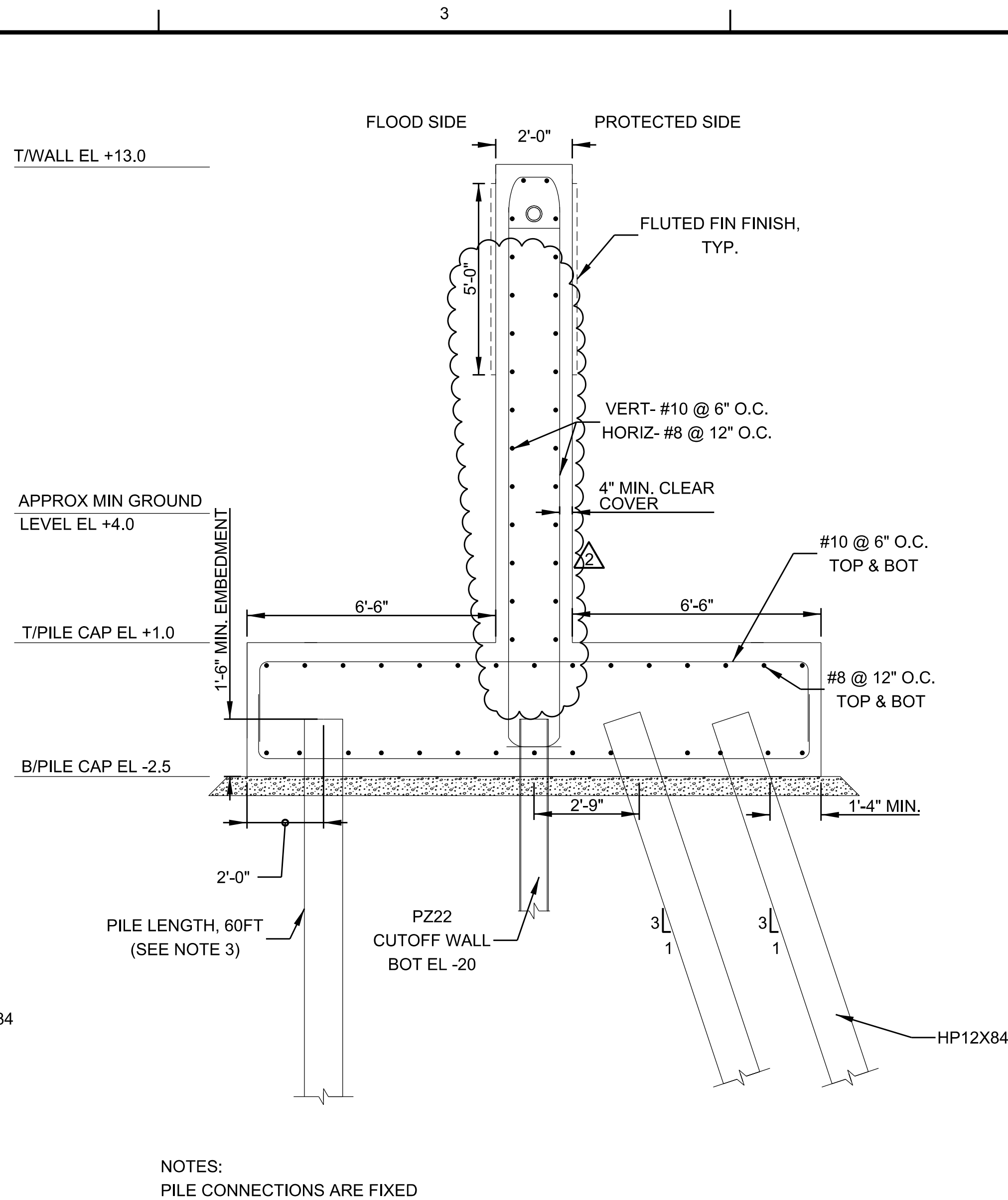
HURRICANE & STORM DAMAGE REDUCTION
RATTAN BAY & SANDY HOOK BAY
PHASE II, CONTRACT 4
PORT MONMOUTH, NJ

FLOODWALL PLAN
OVERVIEW PART 1

1 TYPICAL T - FLOOD WALL SECTION STA. 24+28.25 TO STA. 36+39
S-302 SCALE 2/5" = 1'



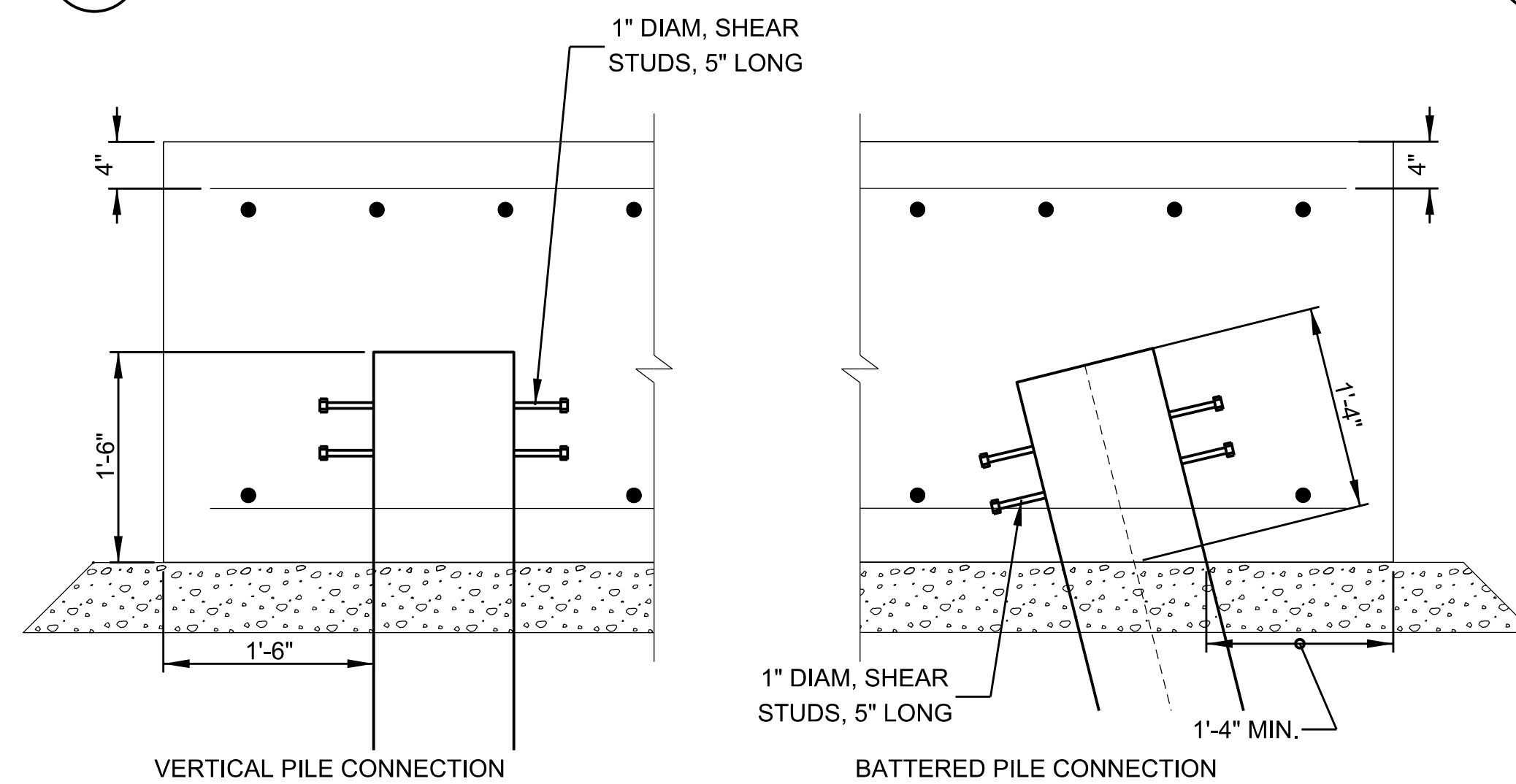
4 PILE SPLICE DETAIL
S-302 SCALE: NTS



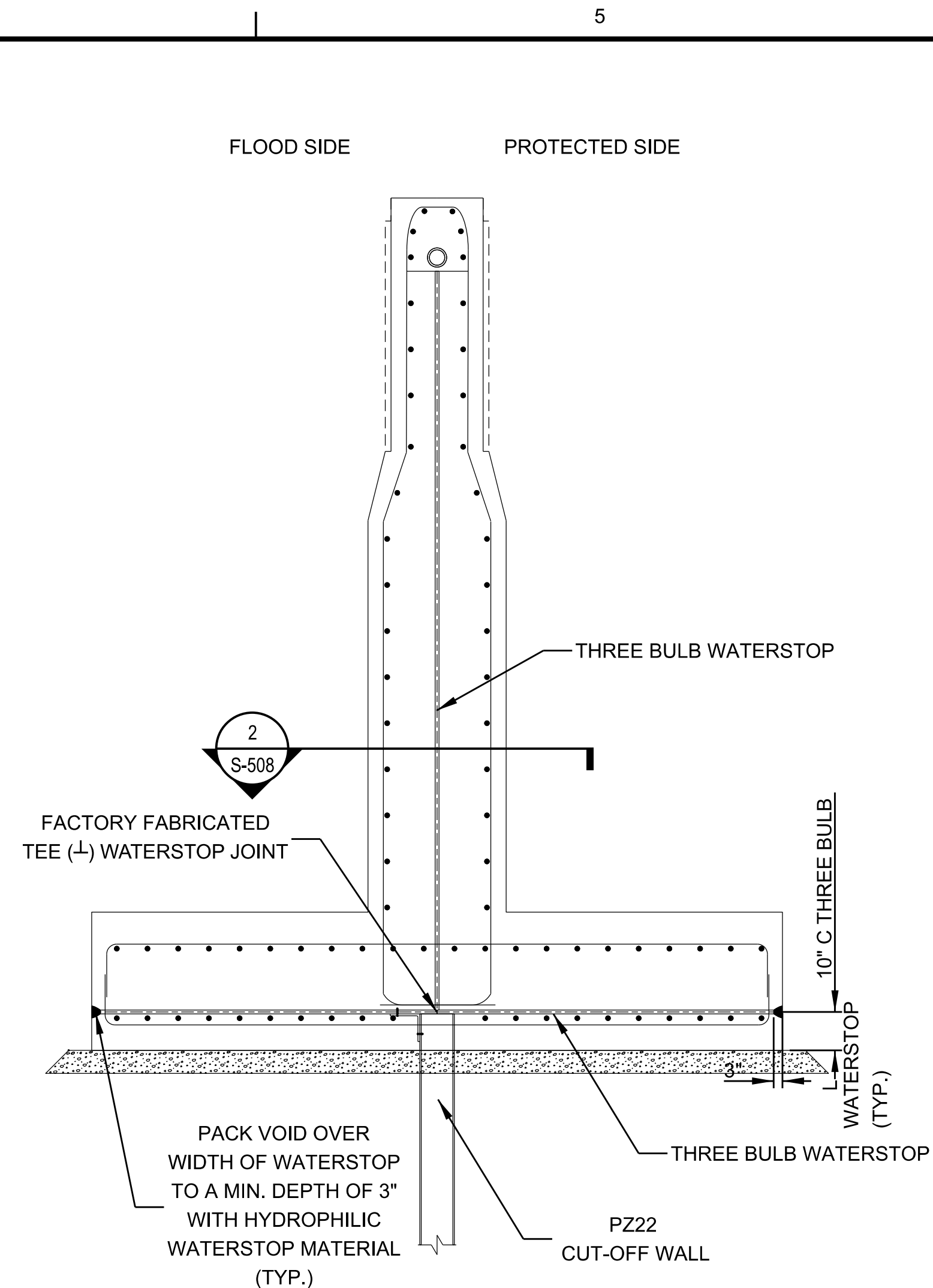
2
S-302

TYPICAL T - FLOOD WALL SECTION STA. 46+36 TO STA. 47+12.61
AND STA. 47+42.61 TO 48+49

SCALE 2/5" = 1'



5 PINNED PILE CONNECTIONS
S-302 SCALE: NTS

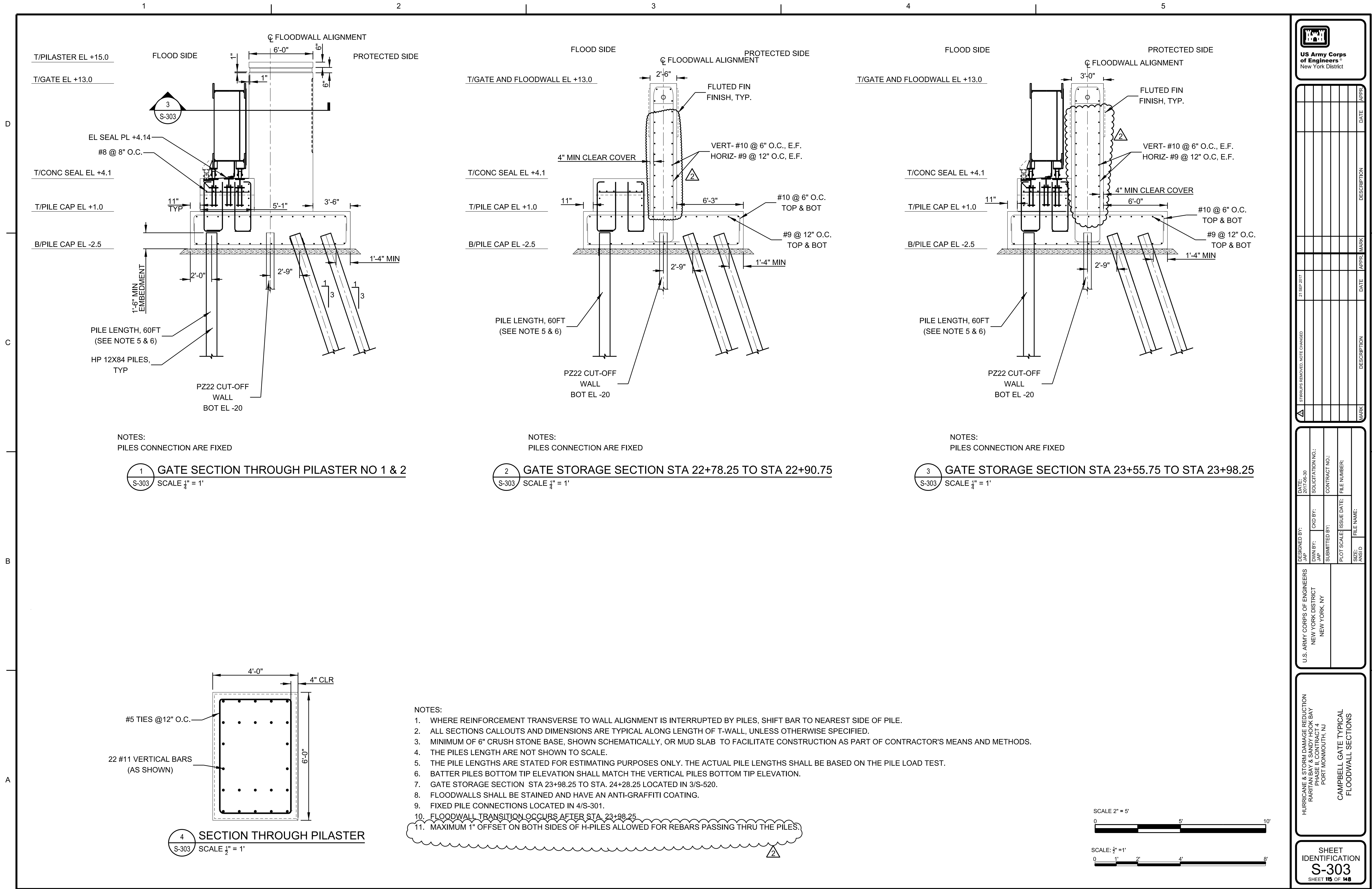


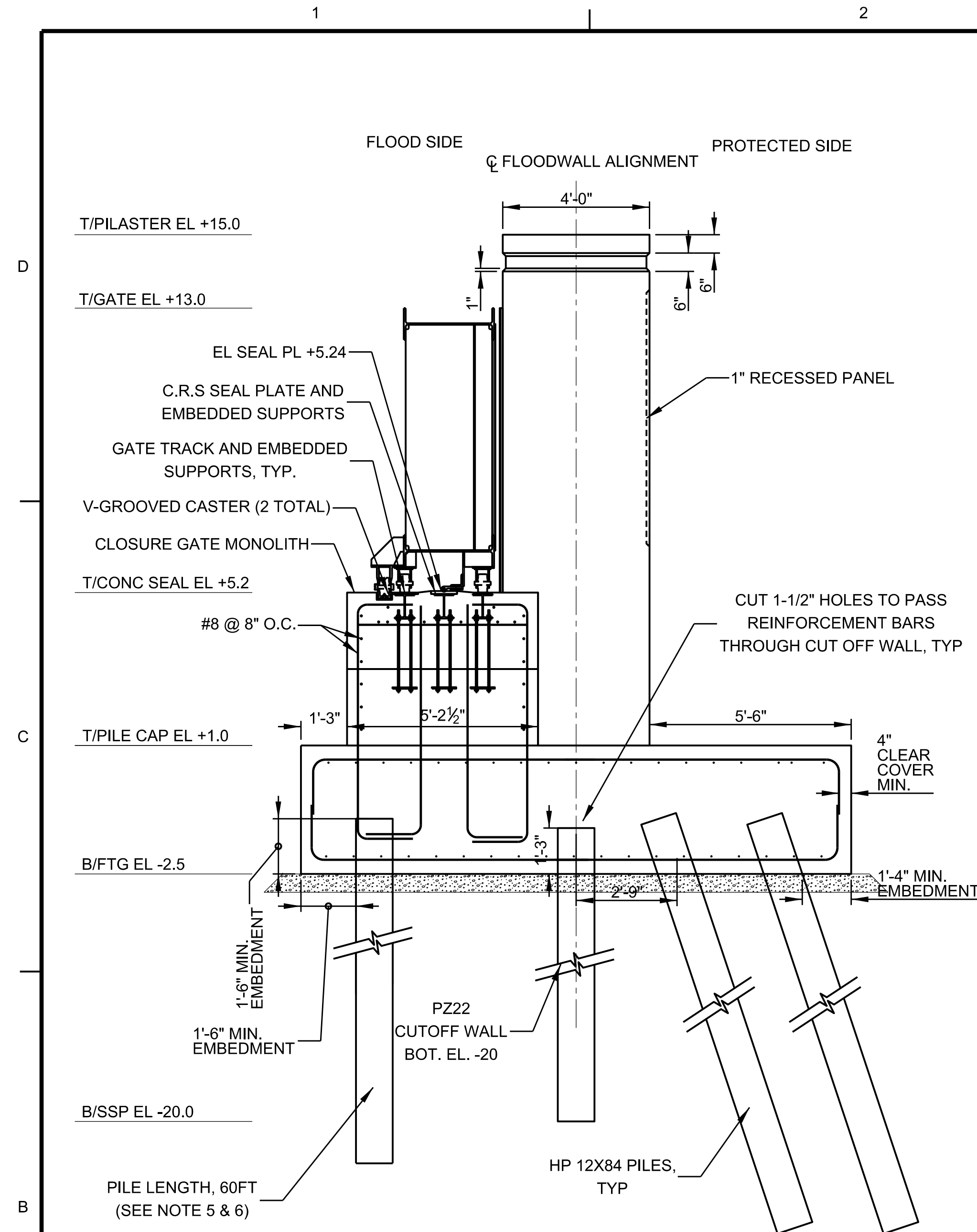
3
S-302

TYPICAL T - FLOOD WALL MONOLITH JOINT
WITH SHEET PILE CUT-OFF WALL

SCALE 2/5" = 1'

- NOTES:
1. THE TYPICAL FLOODWALL SECTIONS FOR THE PIPES ARE SHOWN ON SHEET S-307 TO S-310.
 2. THE TYPICAL FLOODWALL SECTIONS FOR THE CLOSURE GATES ARE SHOWN ON SHEET S-303 AND S-304.
 3. THE PILE LENGTHS ARE STATED FOR ESTIMATING PURPOSES ONLY. THE ACTUAL PILE LENGTHS SHALL BE BASED ON THE PILE LOAD TEST.
 4. BATTER PILE BOTTOM TIP ELEVATION SHALL MATCH THE VERTICAL PILE BOTTOM TIP ELEVATION.
 5. T-FLOODWALL SECTION STA. 23+98.25 TO STA. 24+28.25 LOCATED IN 3/S-520.
 6. T-FLOODWALL SECTION STA. 47+12.61 TO STA. 47+42.61 LOCATED IN 4/S-519.
 7. BROADWAY CLOSURE GATE IS AT STA. 47+94 TO STA. 47+90.
 8. MINIMUM OF 6" CRUSH STONE BASE, SHOWN SCHEMATICALLY, OR MUD SLAB TO FACILITATE CONSTRUCTION AS PART OF CONTRACTOR'S MEANS AND METHODS.
 9. FLOODWALLS SHALL BE STAINED AND HAVE AN ANTI-GRAFFITI COATING.
 10. FIXED PILE CONNECTIONS LOCATED IN 4/S-301.
 11. MAXIMUM 1" OFFSET ON BOTH SIDES OF H-PILES ALLOWED FOR REBAR PASSING THRU THE PILES.



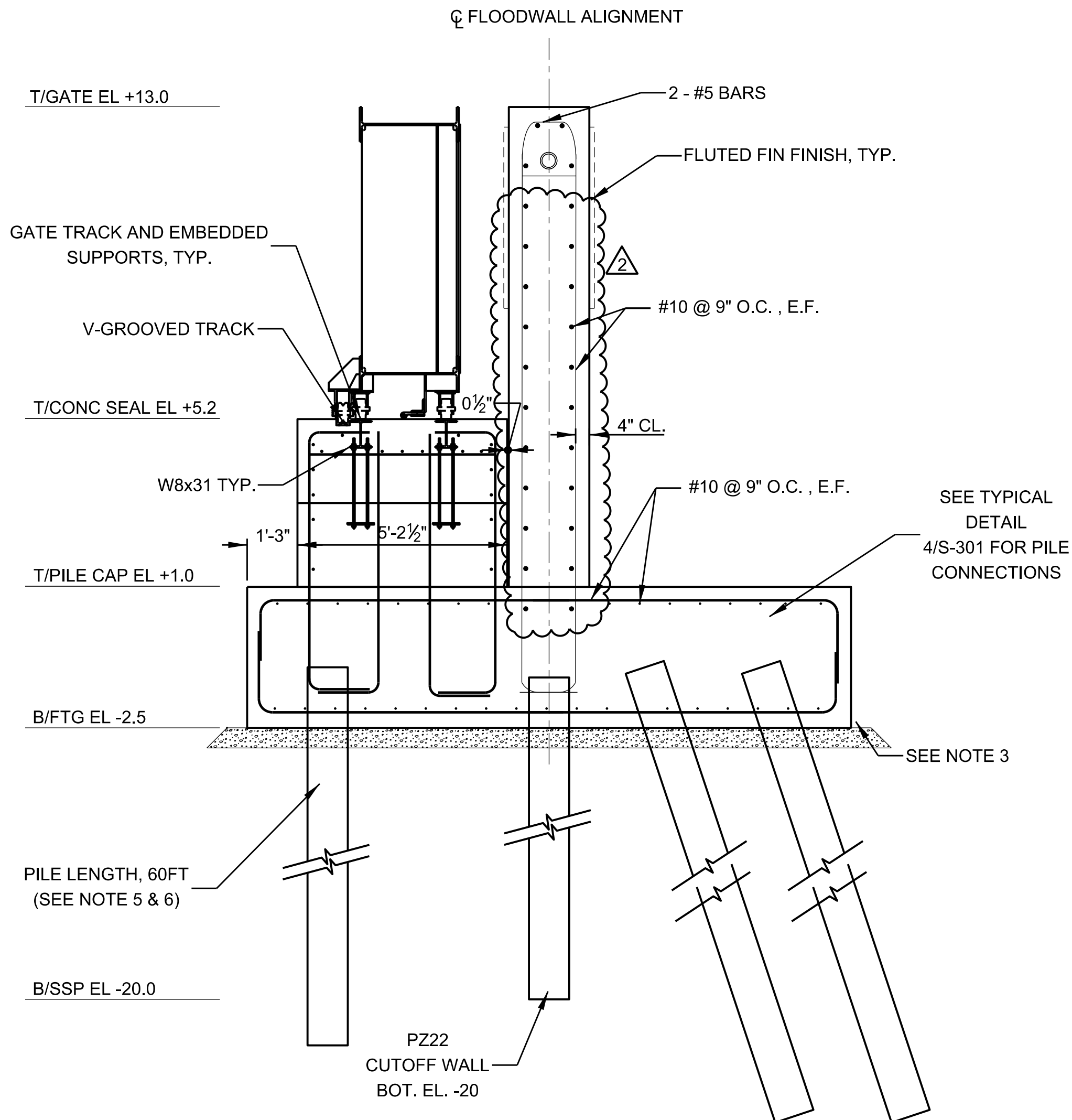


NOTES:
PILES CONNECTION ARE FIXED

1 GATE SECTION THROUGH PILASTER NO 3 & 4
S-304 SCALE 2/5" = 1'

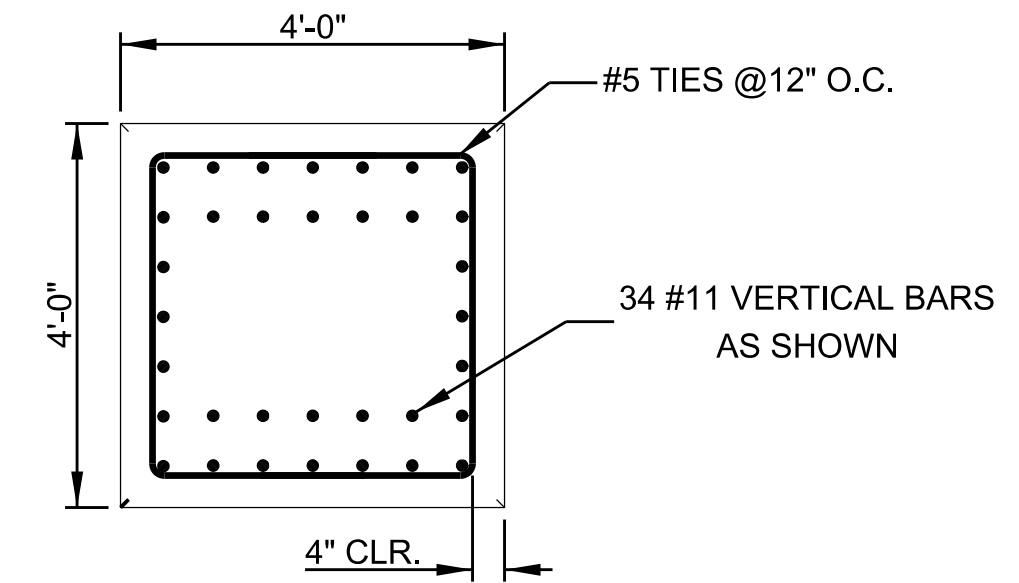
NOTES:

1. WHERE REINFORCEMENT TRANSVERSE TO WALL ALIGNMENT IS INTERRUPTED BY PILES, SHIFT BAR TO NEAREST SIDE OF PILE.
2. ALL SECTIONS CALLOUTS AND DIMENSIONS ARE TYPICAL ALONG LENGTH OF T-WALL, UNLESS OTHERWISE SPECIFIED.
3. MINIMUM OF 6" CRUSH STONE BASE, SHOWN SCHEMATICALLY, OR MUD SLAB TO FACILITATE CONSTRUCTION AS PART OF CONTRACTOR'S MEANS AND METHODS.
4. THE PILES LENGTH ARE NOT SHOWN TO SCALE.
5. THE PILE LENGTHS ARE STATED FOR ESTIMATING PURPOSES ONLY. THE ACTUAL PILE LENGTHS SHALL BE BASED ON THE PILE LOAD TEST.
6. BATTER PILES BOTTOM TIP ELEVATION SHALL MATCH THE VERTICAL PILES BOTTOM TIP ELEVATION.
7. FLOODWALLS SHALL BE STAINED AND HAVE AN ANTI-GRAFFITI COATING.
8. FIXED PILE CONNECTIONS LOCATED IN 4/S-301.
9. MAXIMUM 1" OFFSET ON BOTH SIDES OF H-PILES ALLOWED FOR REBARS PASSING THRU THE PILES.

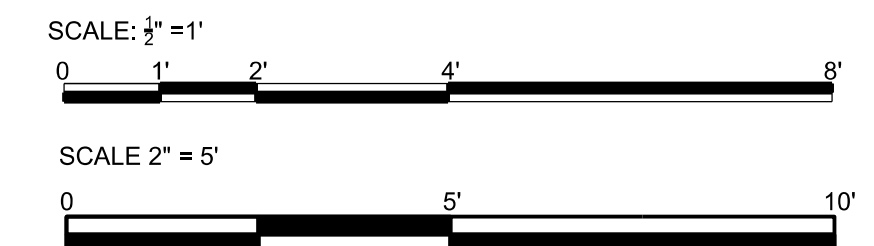


NOTES:
PILES CONNECTION ARE FIXED

GATE SECTION THROUGH STORAGE SLAB
STA. 47+94.11 TO STA. 48+43.5
S-304 SCALE 2/5" = 1'

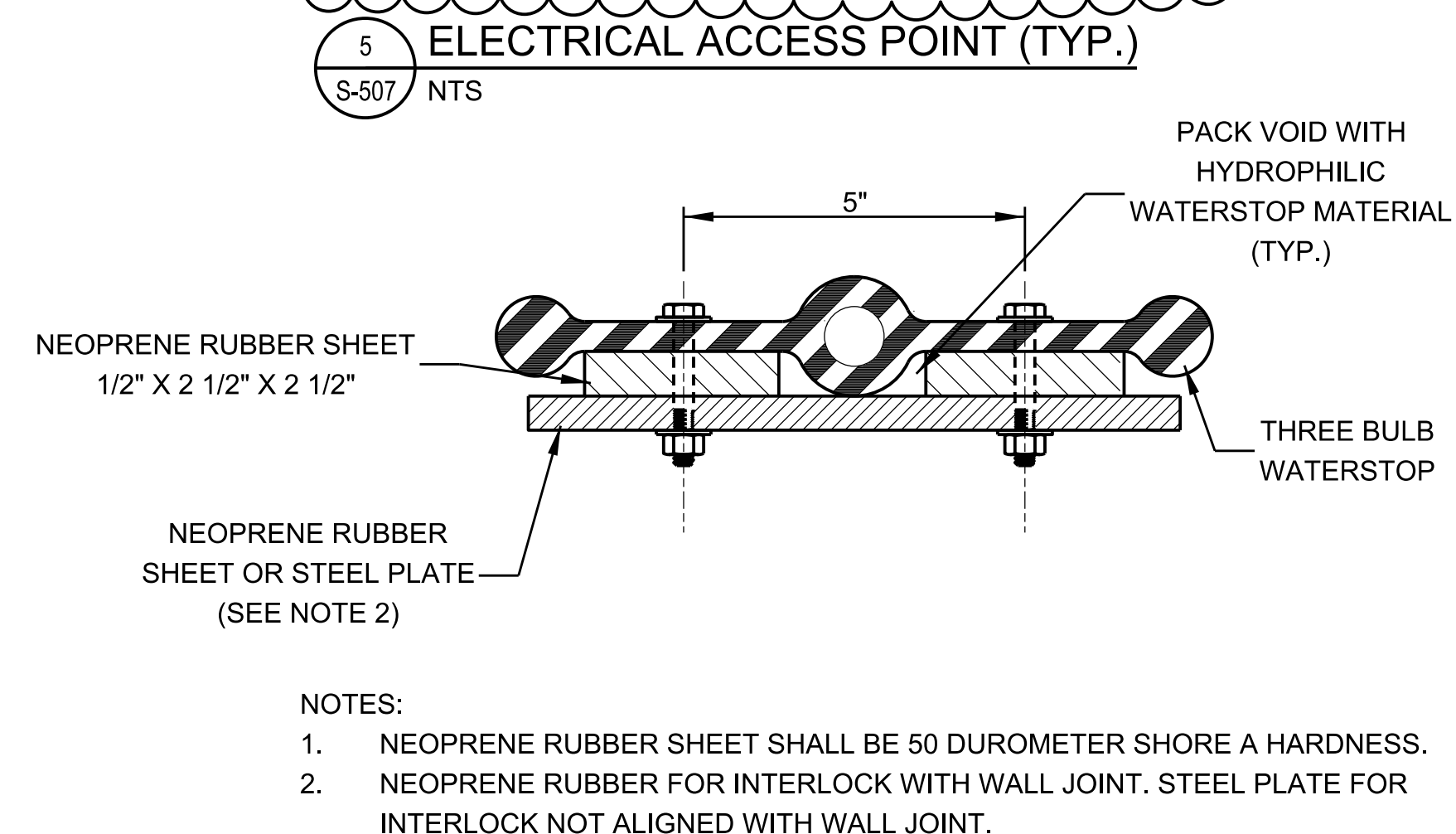
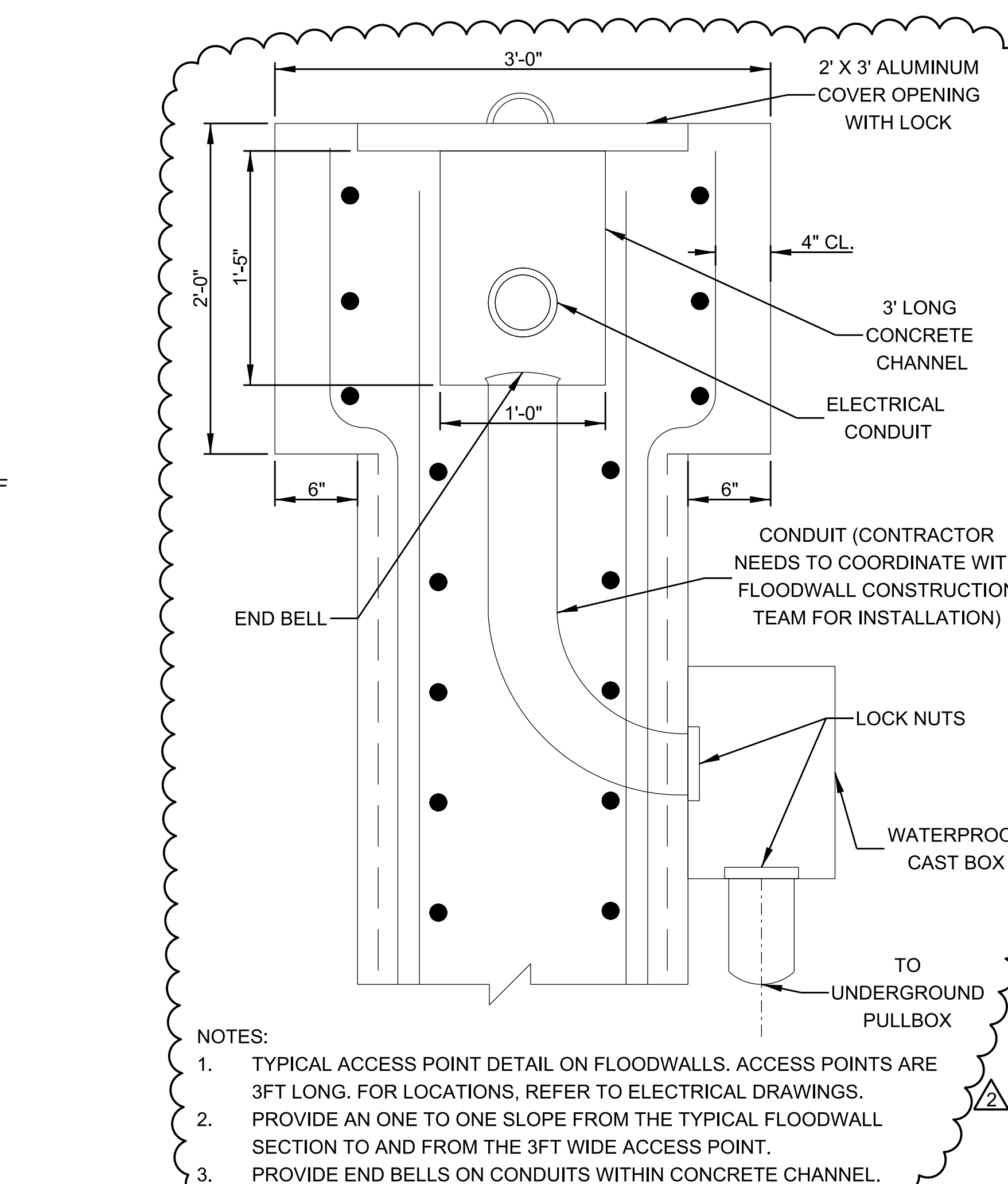
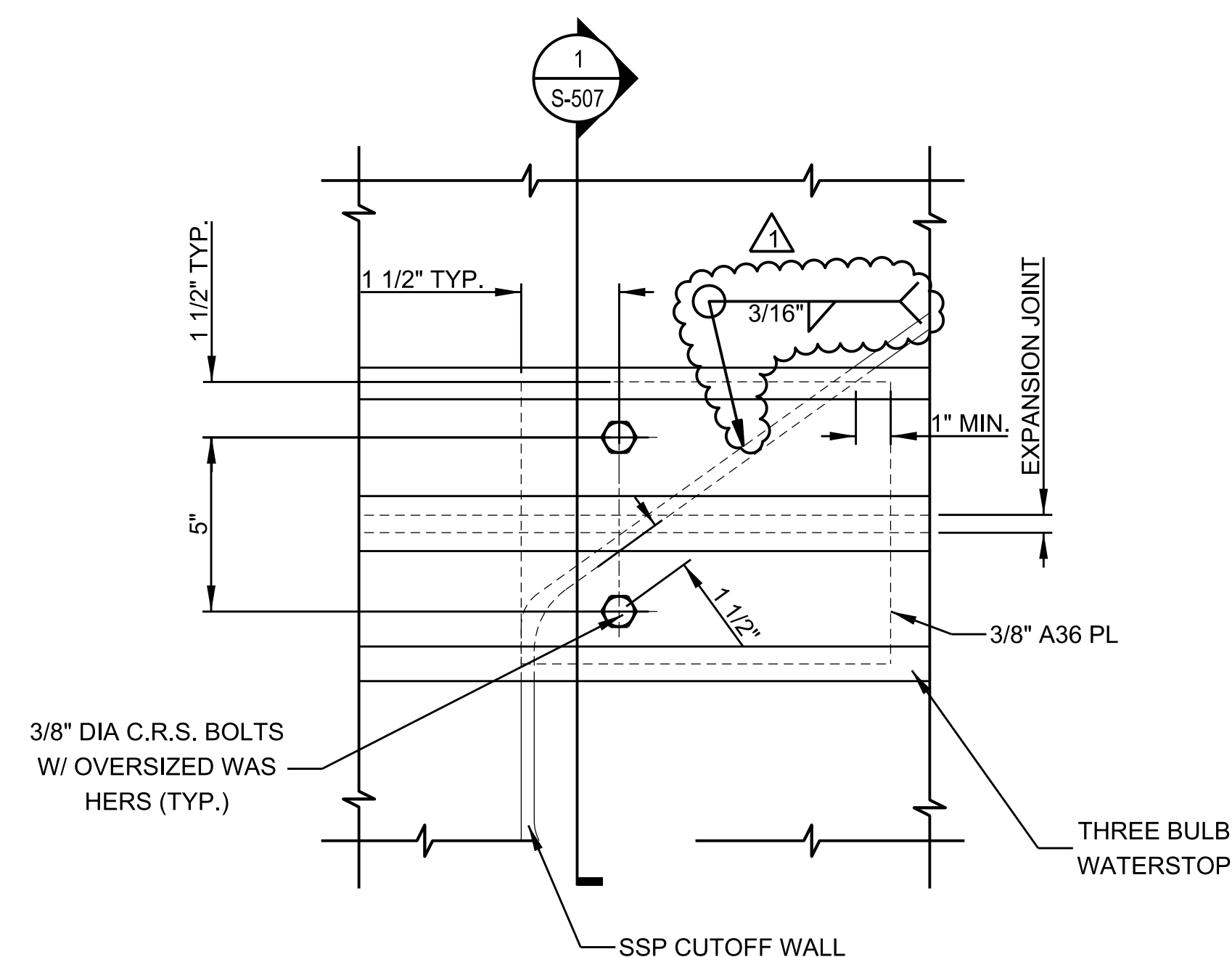
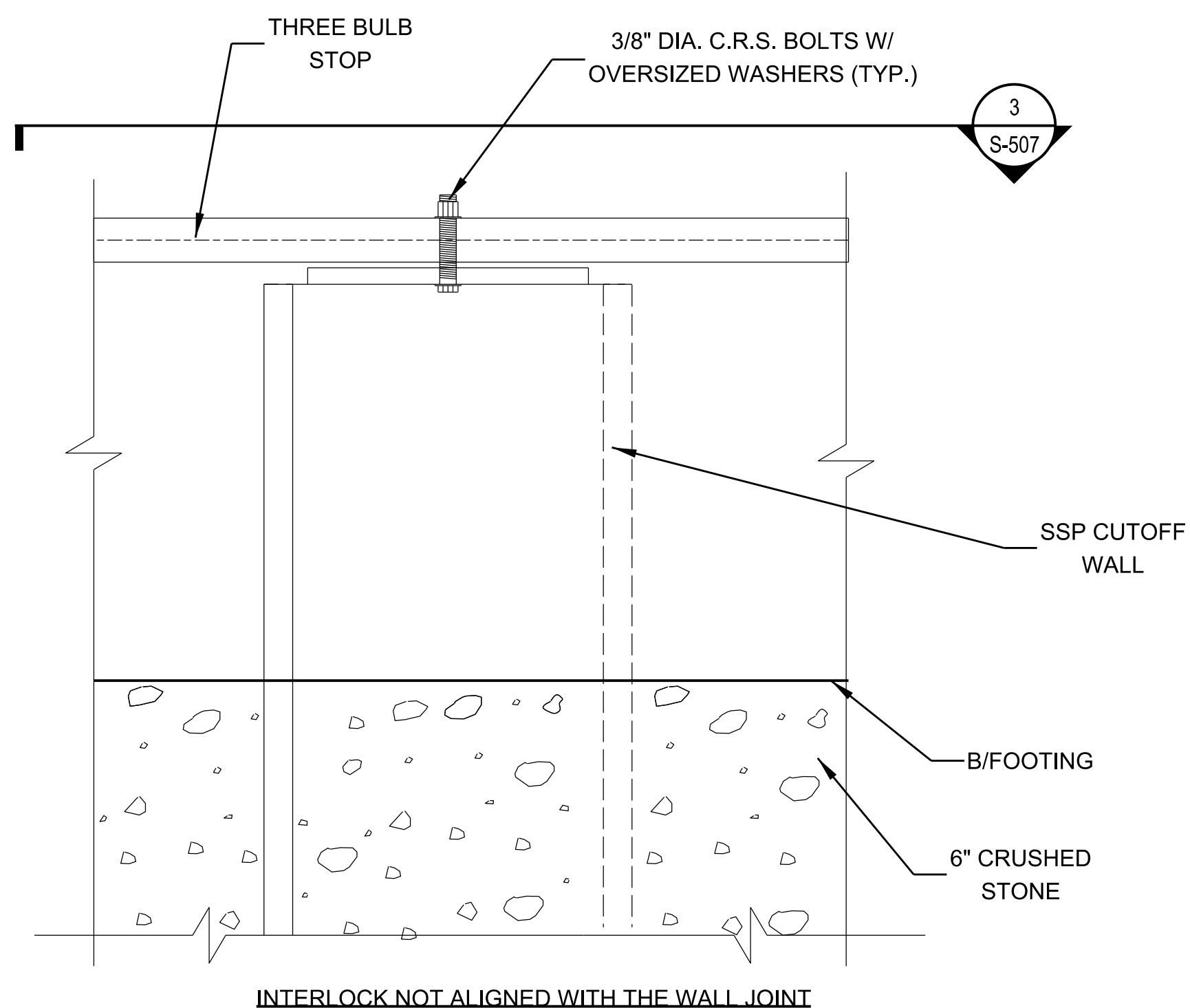


3 SECTION THROUGH PILASTER
S-304 SCALE 1/2" = 1'

[illegible]

U.S. ARMY CORP. OF ENGINEERS NEW YORK DISTRICT NEW YORK, NY	REQ. NO. BY:	CAD BY:	SOLICITATION NO.:
	BEG. BY:		2017-05-05
	SUBMITTED BY:		CONTRACT NO.:
	PLOT SCALE:	ISSUE DATE:	FILE NUMBER:
	DATE: ANSI D	FILE NAME:	

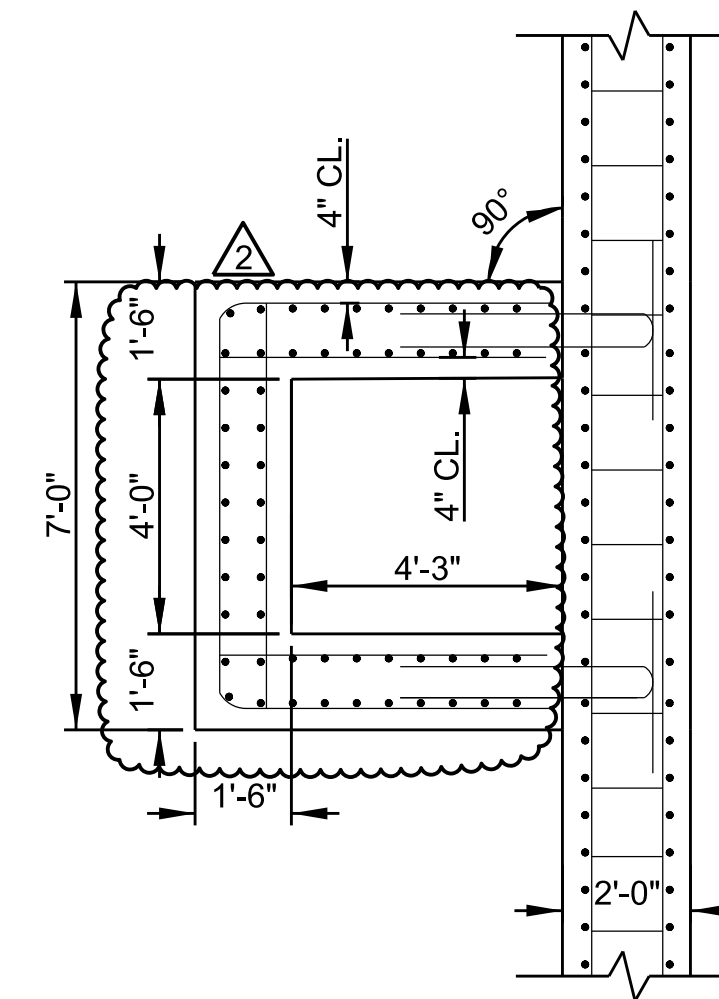
**BROADWAY GATE TYPICAL
FLOODWALL SECTIONS**

[illegible]

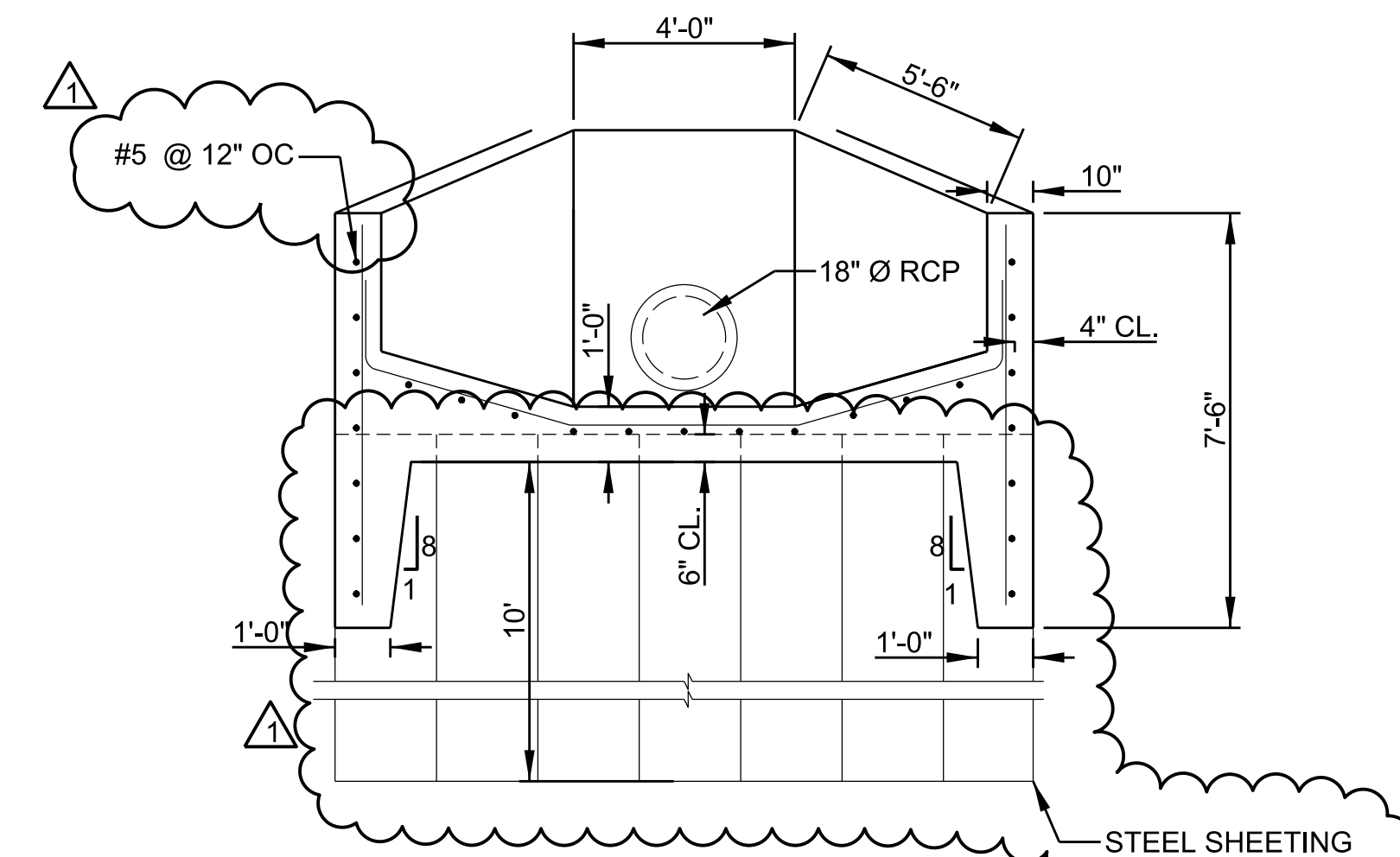
U.S. ARMY CORPS OF ENGINEERS NEW YORK DISTRICT NEW YORK, NY	DESIGNED BY:	DATE:
	JAP	2017-06-30
	DRAWN BY:	SOLICITATION NO.:
	JAP	
	SUBMITTED BY:	CONTRACT NO.:
	CHK	
	PLUT SCALE:	ISSUE DATE:
		FILE NUMBER:
	SIZE:	FILE NAME:

HURRICANE & STORM DAMAGE REDUCTION
RARITAN BAY & SANDY HOOK BAY
PHASE II, CONTRACT 4
PORT MONMOUTH, NJ

SHEET
IDENTIFICATION
S-507
SHEET 130 OF 148

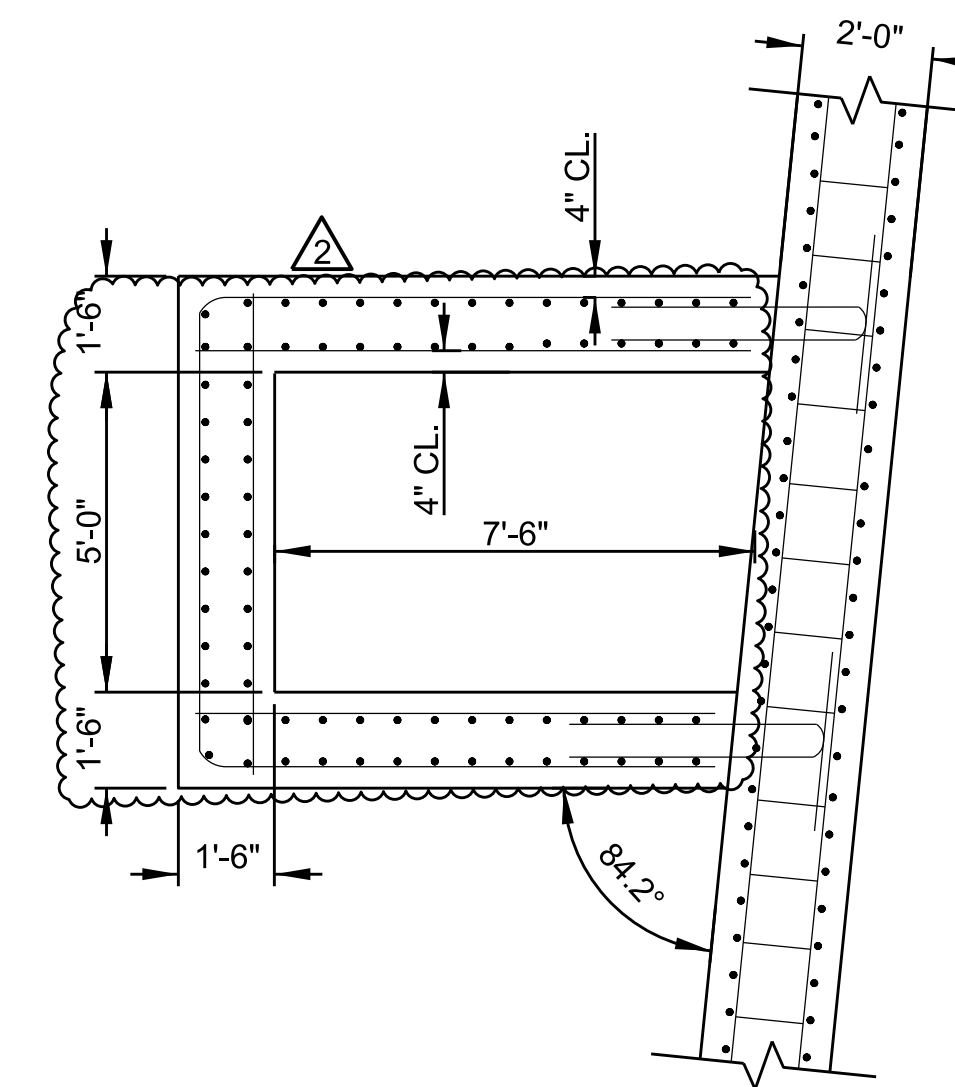


3 C1-1 SECTION
S-511 SCALE $\frac{1}{3}'' = 1'$

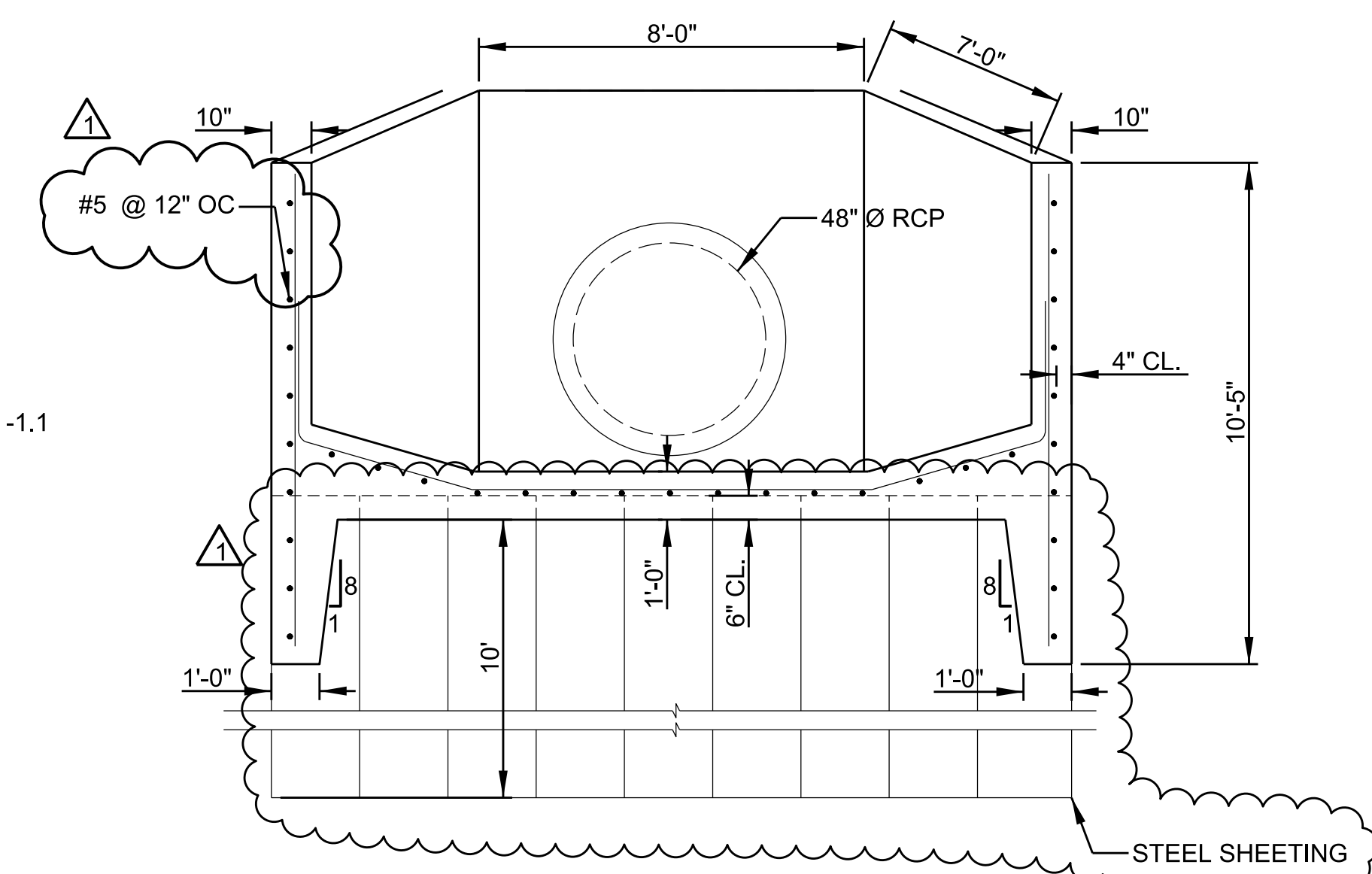


4 C1-1 OUTLET
S-511 SCALE $\frac{1}{3}'' = 1'$

- SCALE: 1/3" = 1'
- 
- A horizontal graphic scale bar with alternating black and white segments. It is marked with '0', '3'', '6'', and '12'' at regular intervals.



3 C1-MAIN SECTION
S-512 SCALE $\frac{1}{8}" = 1'$



4 C1-MAIN OUTLET
S-512 SCALE $\frac{1}{3}" = 1'$

- SCALE: 1/3" = 1'
- 0 3' 6' 12'
-
- A horizontal scale bar with alternating black and white segments. The segments are labeled 0, 3', 6', and 12' from left to right. The total length of the bar represents 12 feet.

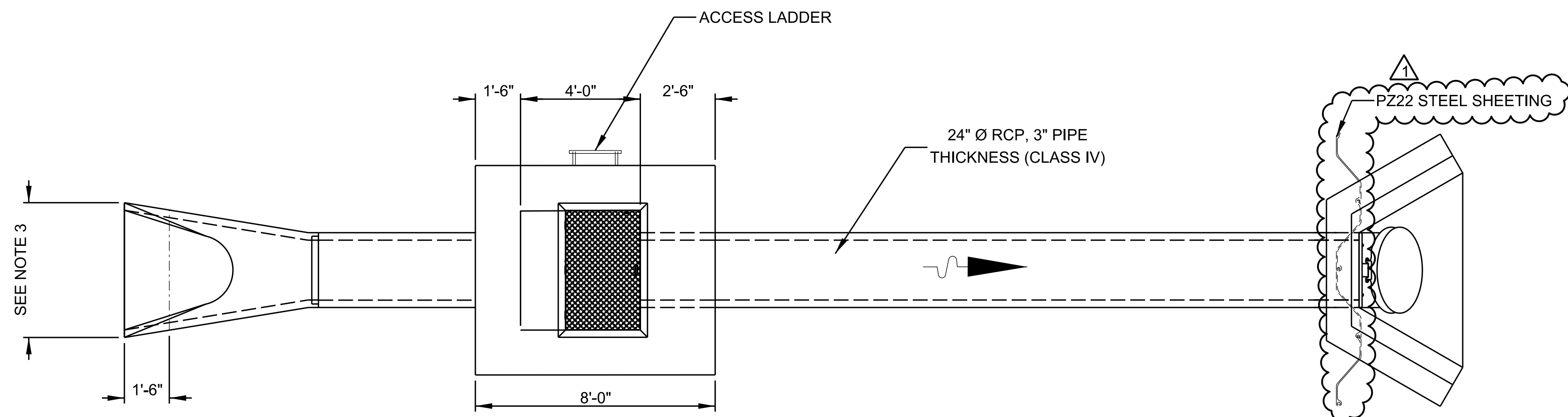
[illegible]

U.S. ARMY CORPS OF ENGINEERS NEW YORK DISTRICT NEW YORK, NY	OWN BY:	CREATED BY:	SOLICITATION NO.:
	JAP	JAP	2017-526-30
	SUBMITTED BY:	CONTRACT NO.:	
			FILE NUMBER:
	PLOT SCALE:	ISSUE DATE:	
	SIZE:	FILE NAME:	
	ANSI D:		

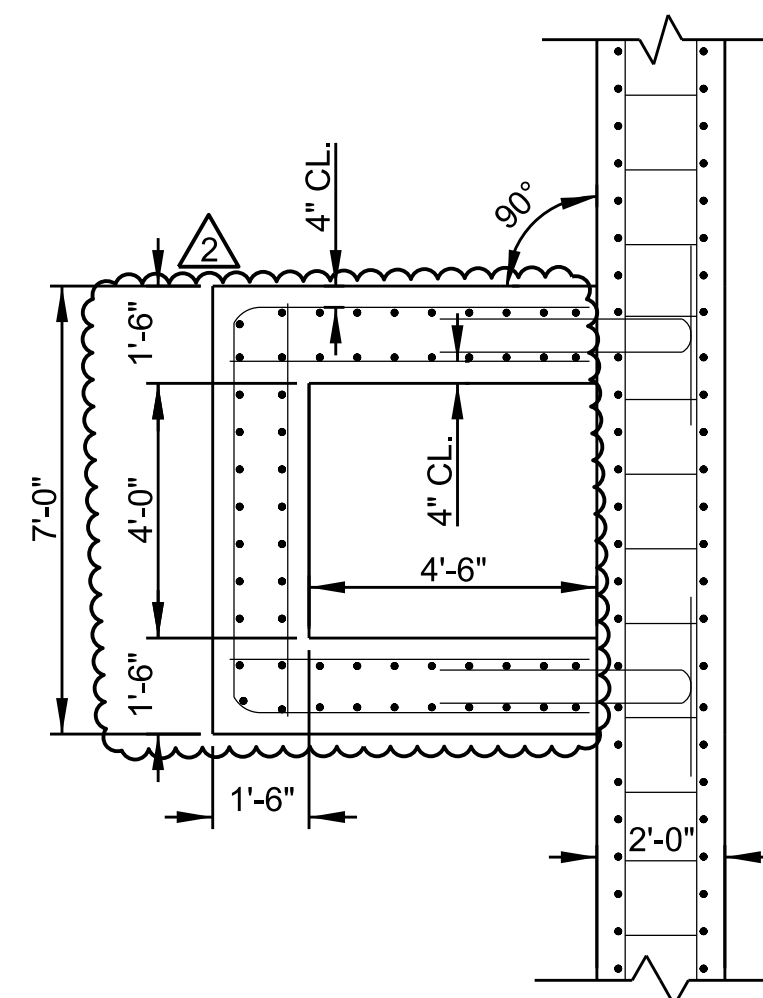
BRICANE & STORM DAMAGE REDUCTION
RARIATAN BAY & SANDY HOOK BAY
PHASE II, CONTRACT 4
PORT MONMOUTH, NJ

DRAINAGE STRUCTURE C2-4
DETAIL (STATION 24+60)

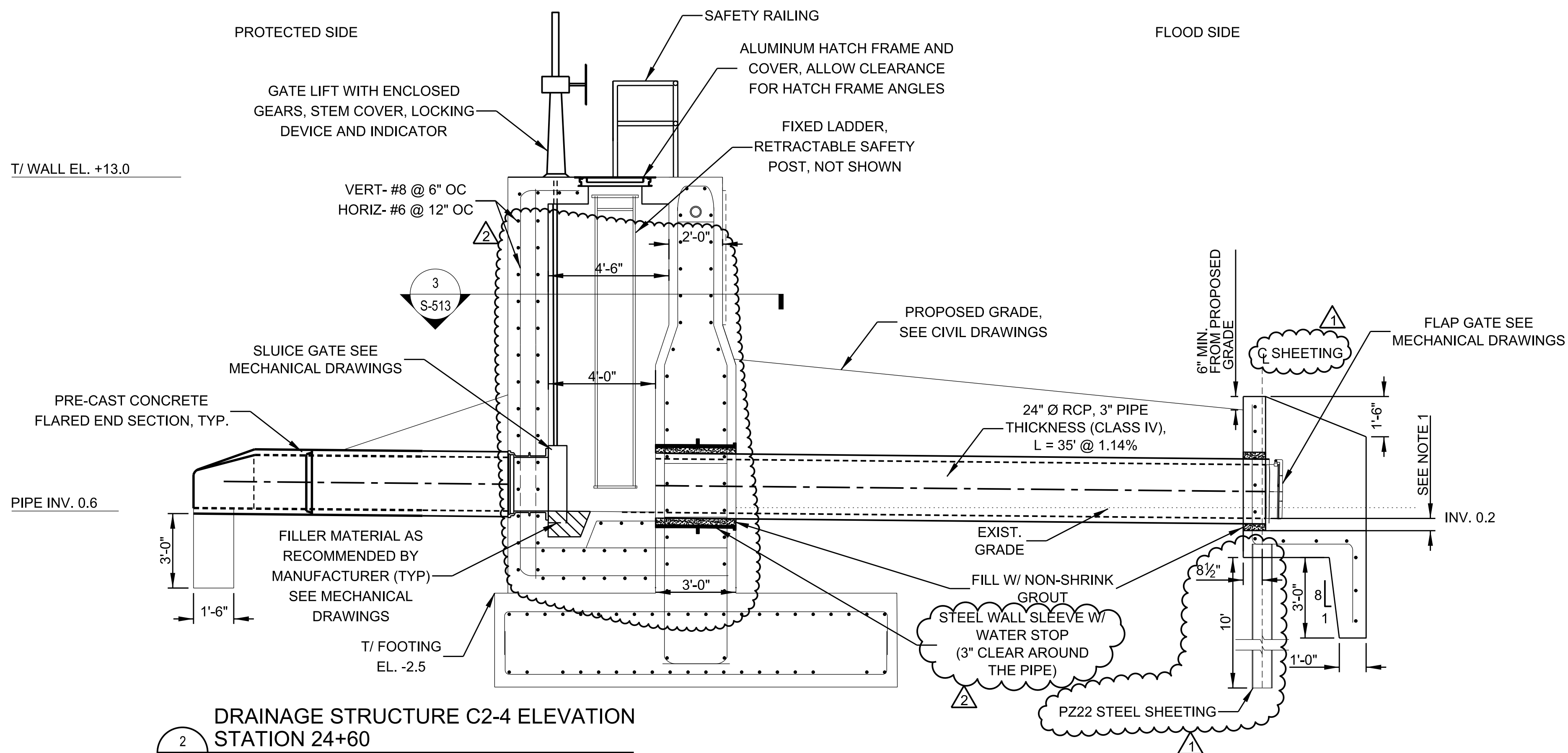
SHEET
IDENTIFICATION
S-513
SHEET 136 OF 148



DRAINAGE STRUCTURE C2-4 PLAN
STATION 24+60
1
S-513
SCALE $\frac{1}{4}" = 1'$

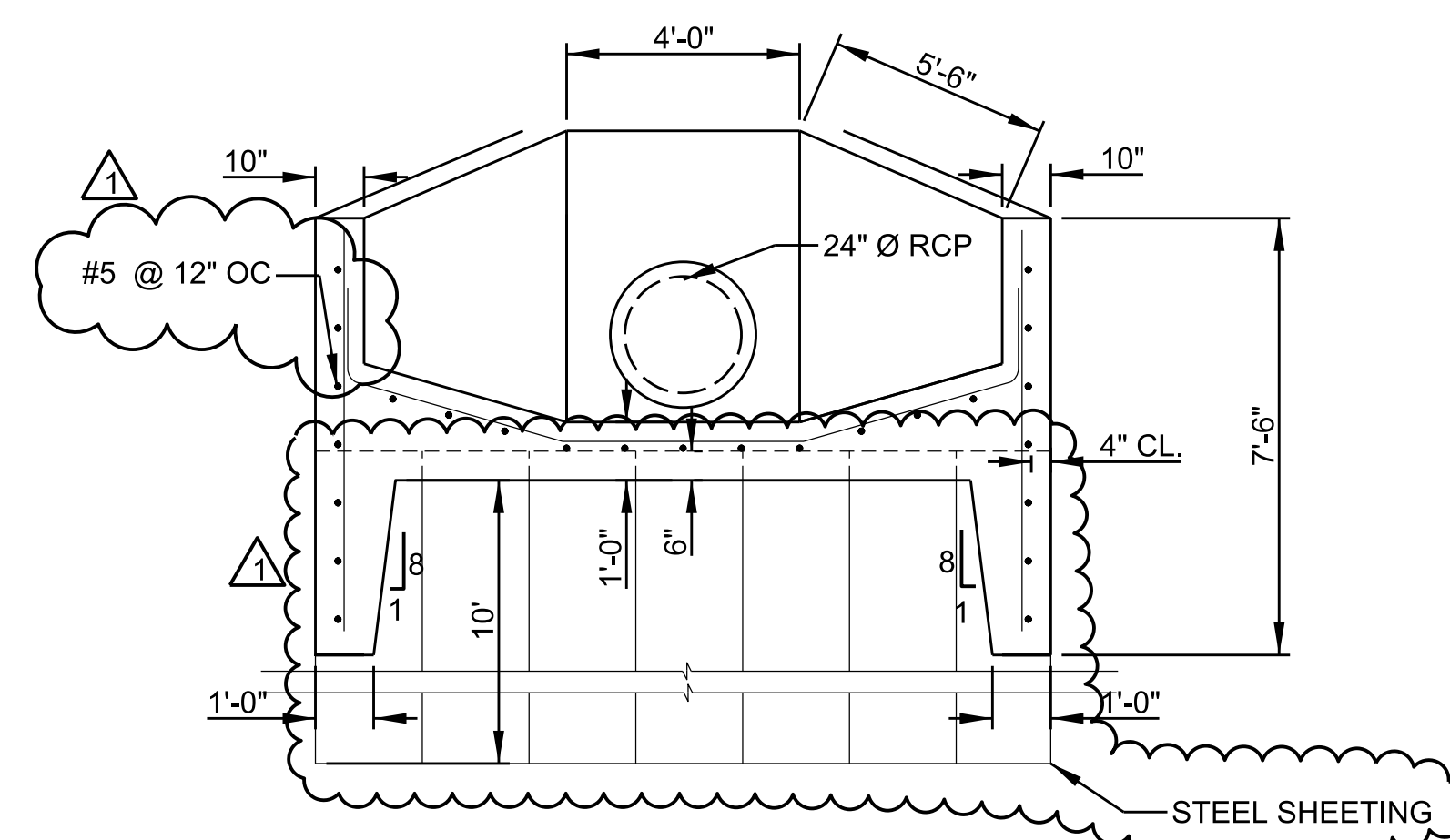


3
S-513



DRAINAGE STRUCTURE C2-4 ELEVATION
STATION 24+60
S-513 SCALE $\frac{1}{4}" = 1'$

- NOTES:
1. PROVIDE SUFFICIENT CLEARANCE FOR FLANGE MOUNTING PER MANUFACTURER'S REQUIREMENTS (REFER TO MECHANICAL DRAWINGS).
 2. SEE CIVIL DRAWINGS FOR PIPE INFORMATION.
 3. WIDTH OF CONCRETE SUPPORT MATCHES WIDTH OF PRECAST FLARED END SECTION.



4 C2-4 OUTLET
S-513 SCALE $\frac{1}{8}'' = 1'$



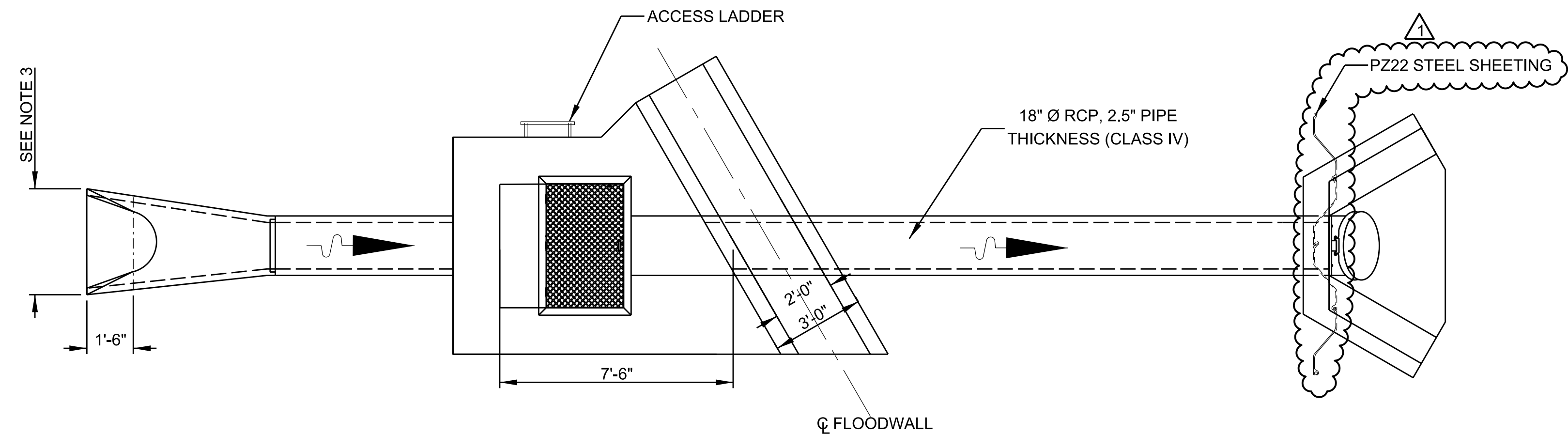
[illegible]

U.S. ARMY CORPS OF ENGINEERS NEW YORK DISTRICT NEW YORK, NY	OWN BY:	SOLICITATION NO.:
	JAP	2017-536-30
	SUBMITTED BY:	CONTRACT NO.:
	PLOT SCALE:	ISSUE DATE:
		FILE NUMBER:
	SIZE:	FILE NAME:
	ANSI D:	

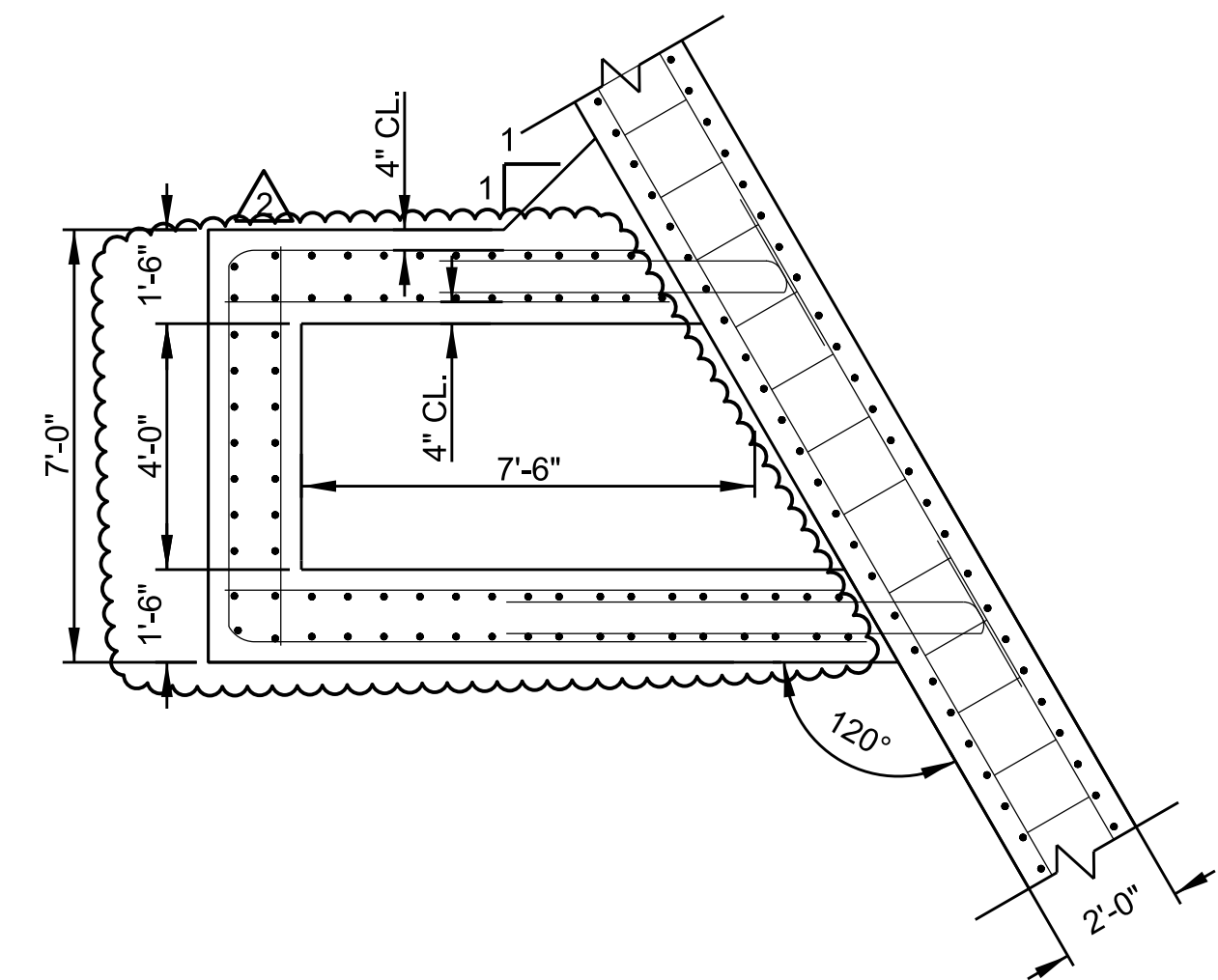
BRICANE & STORM DAMAGE REDUCTION
RARTAN BAY & SANDY HOOK BAY
PHASE II, CONTRACT 4
PORT MONMOUTH, NJ

DRAINAGE STRUCTURE C2-3
DETAIL (STATION 28+05)

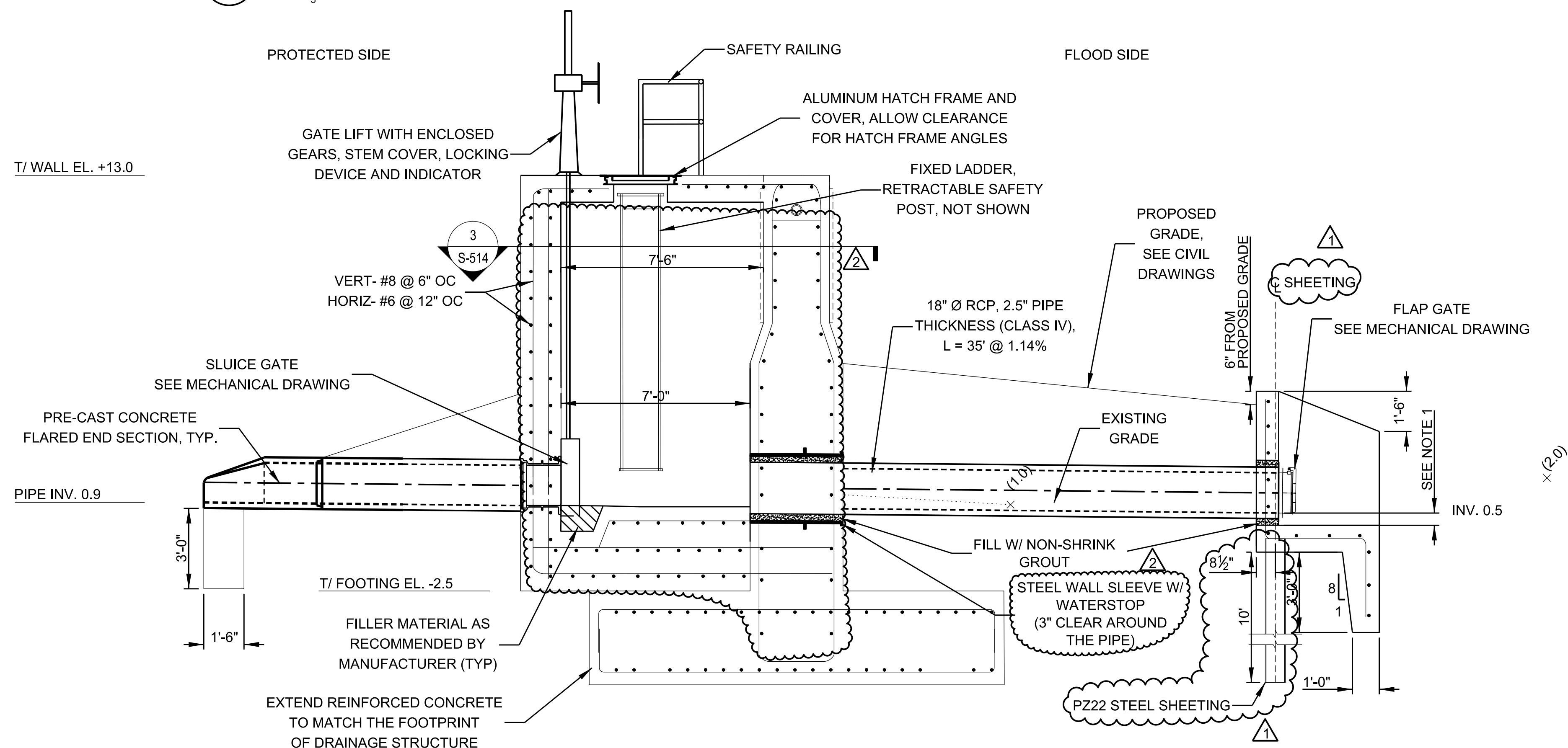
SHEET
IDENTIFICATION
S-514
SHEET **137** OF **148**



DRAINAGE STRUCTURE C2-3 PLAN
STATION 28+05
1
S-514
SCALE $\frac{1}{3}'' = 1'$



3
S-514



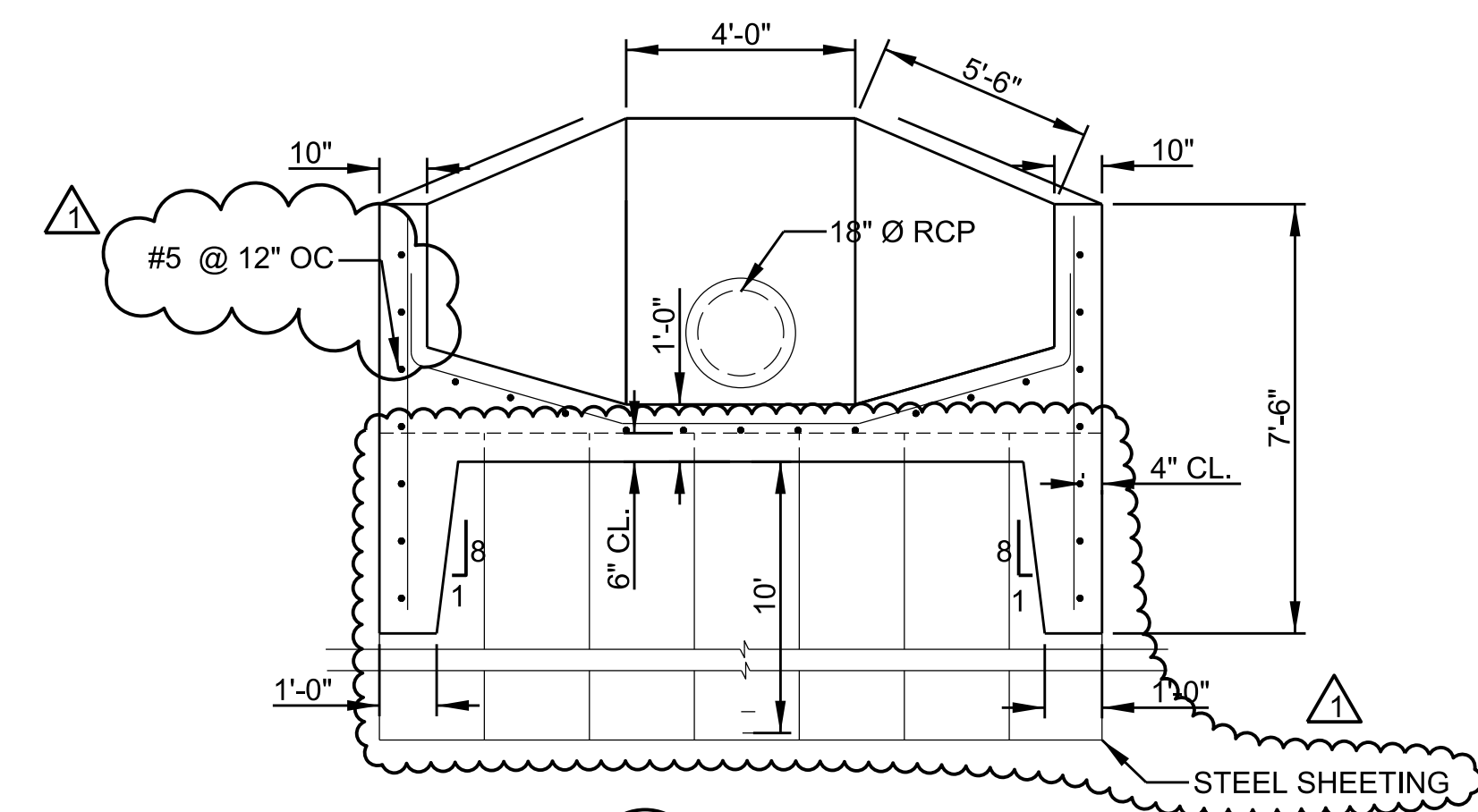
2
S-514

DRAINAGE STRUCTURE C2-3 ELEVATION
STATION 28+05

SCALE $\frac{1}{3}'' = 1'$

NOTES:

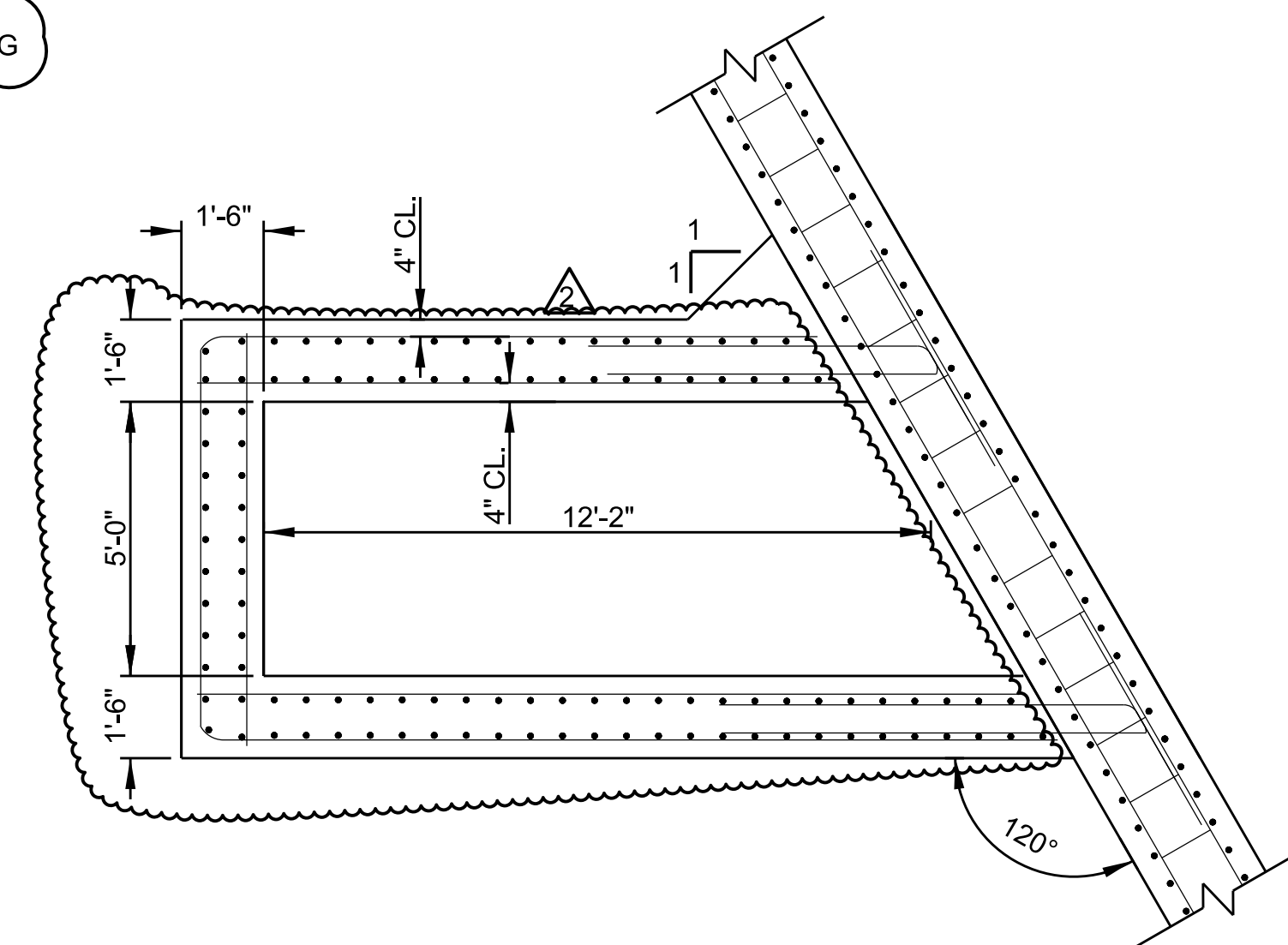
- NOTES:
1. PROVIDE SUFFICIENT CLEARANCE FOR FLANGE MOUNTING PER MANUFACTURER'S REQUIREMENTS (REFER TO MECHANICAL DRAWINGS)
 2. SEE CIVIL DRAWINGS FOR PIPE INFORMATION.
 3. WIDTH OF CONCRETE SUPPORT MATCHES WIDTH OF PRECAST FLARED END SECTION.



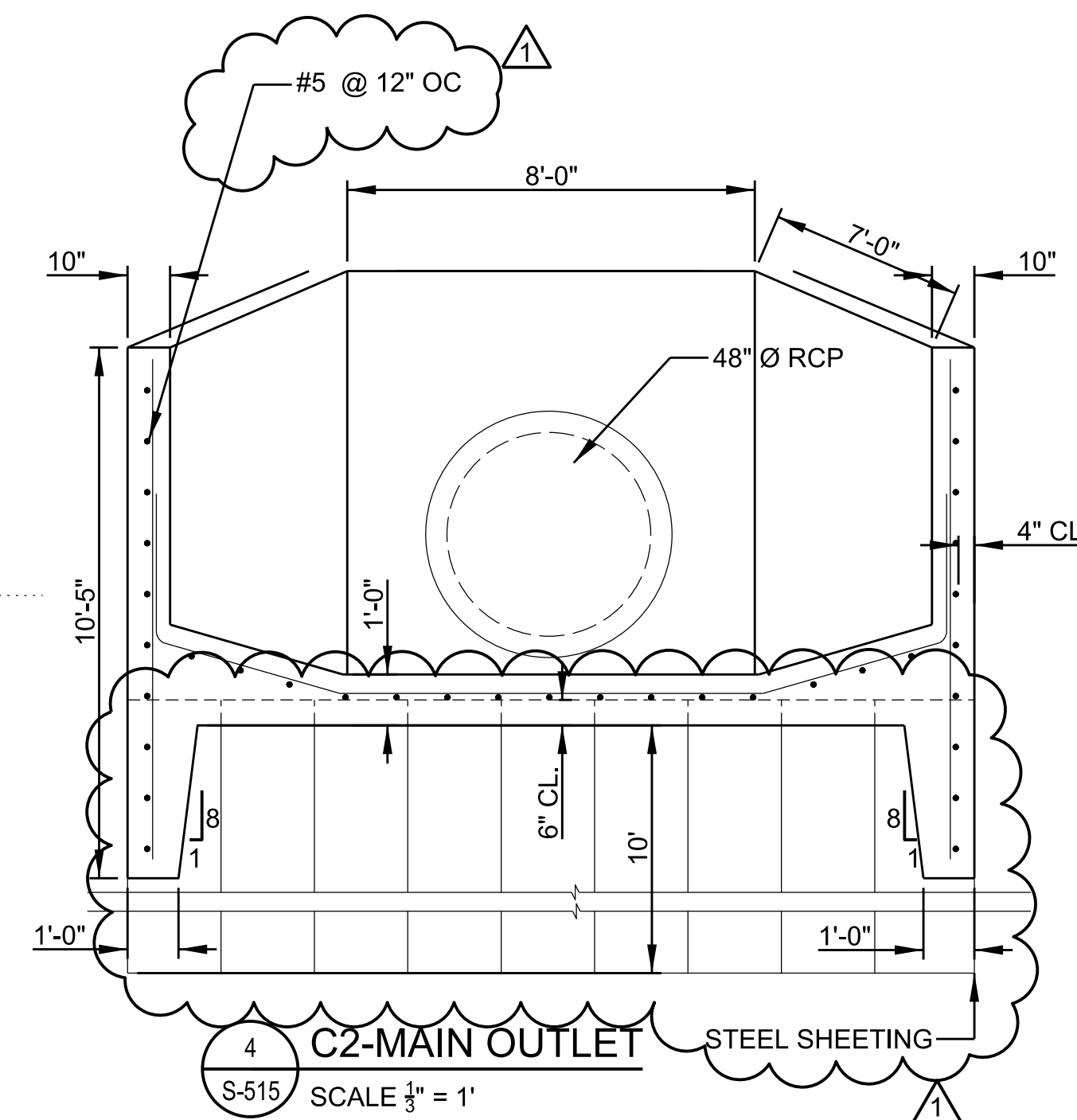
4 C2-3 OUTLET
S-514 SCALE $\frac{1}{3}'' = 1'$

SCALE: 1/3" = 1'



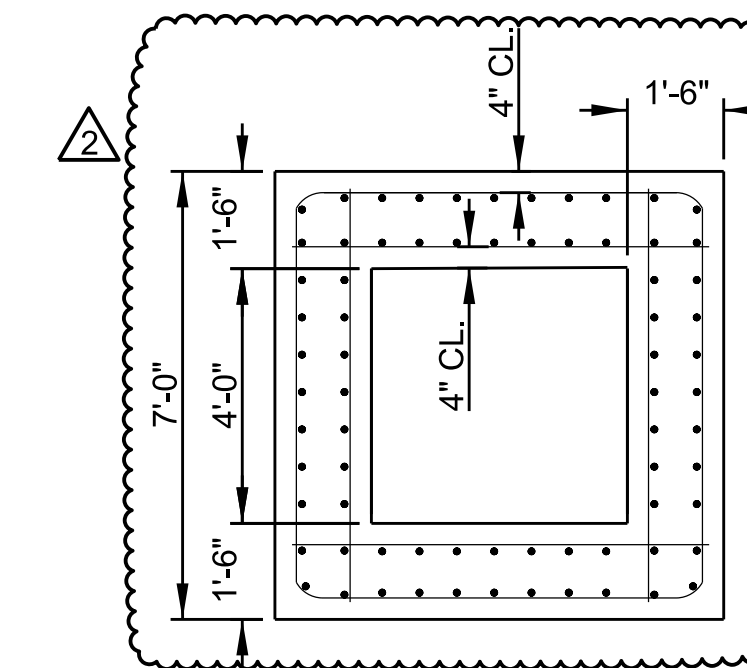


3 C2-MAIN SECTION
S-515 SCALE $\frac{1}{3}" = 1'$

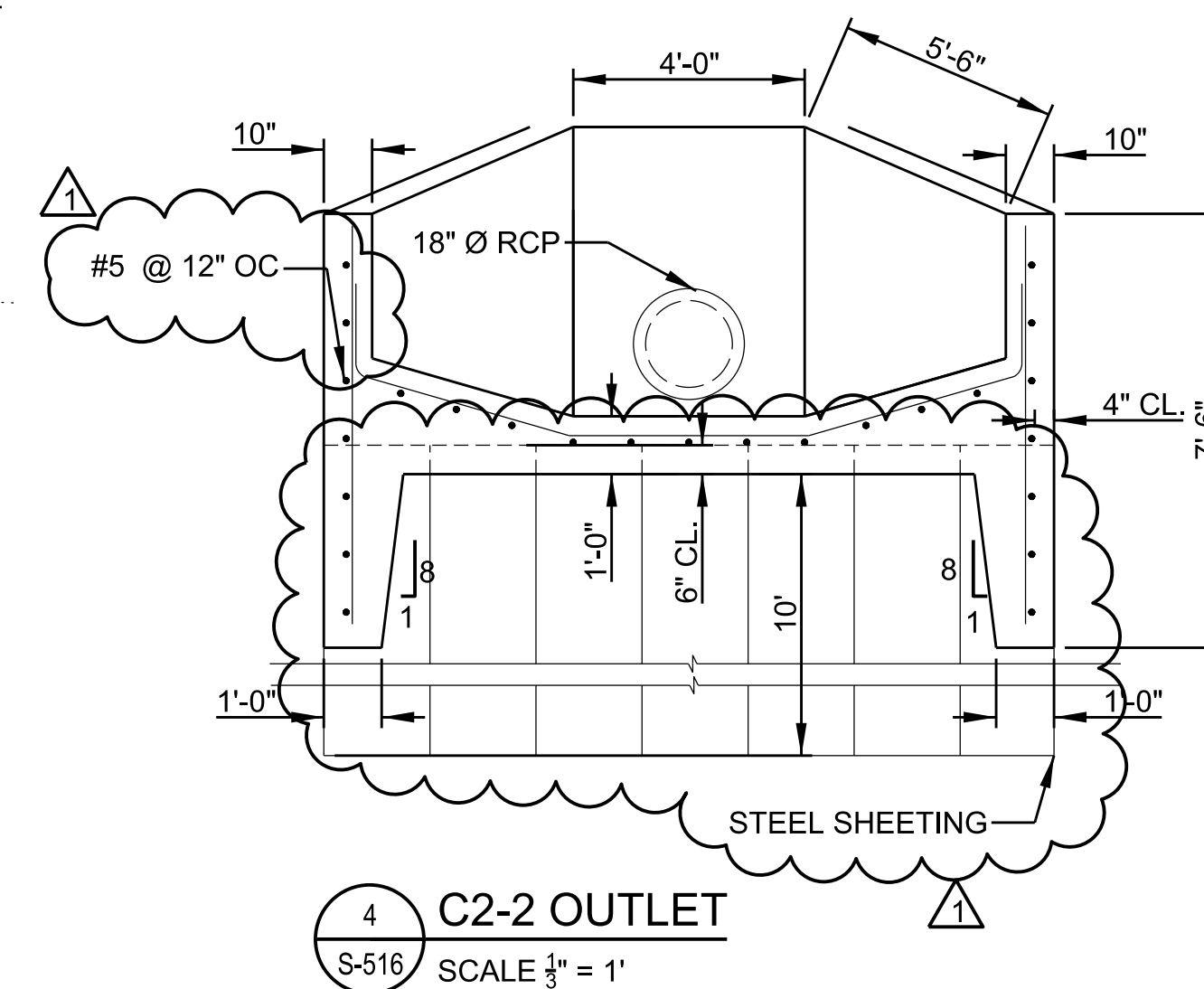


C2-MAIN
SCALE $\frac{1}{3}'' = 1'$

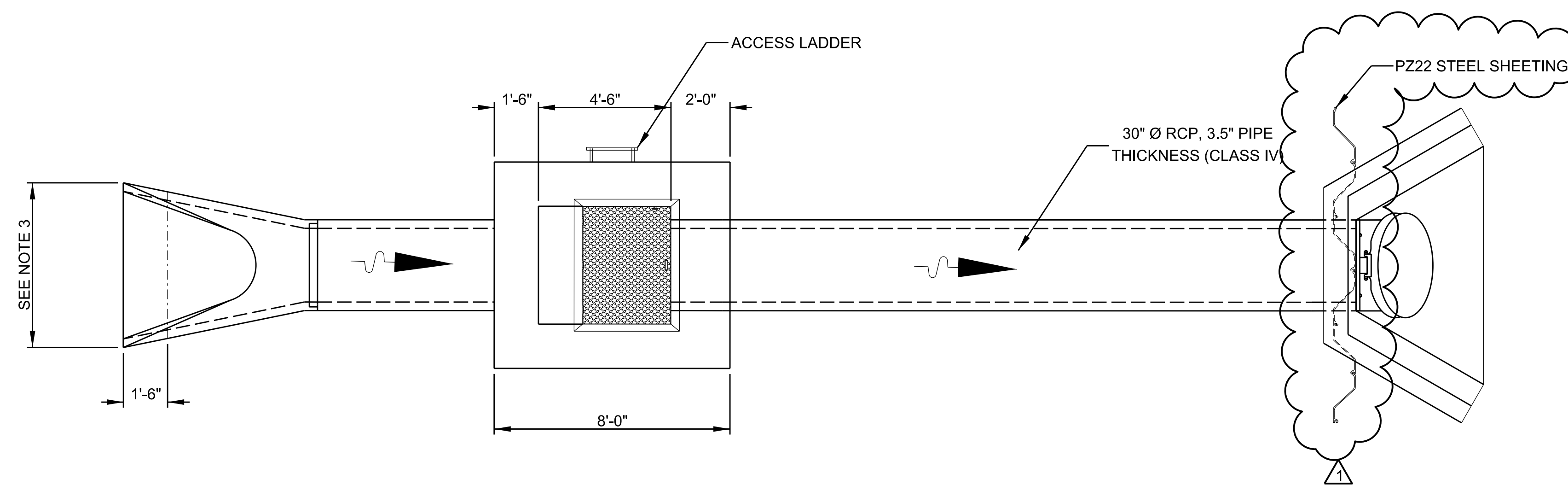
- SCALE: 1/3" = 1'
- 
- A horizontal graphic scale bar with alternating black and white segments. It is marked with '0', '3'', '6'', and '12'' at regular intervals.



3 C2-2 SECTION
S-516 SCALE $\frac{1}{3}'' = 1'$



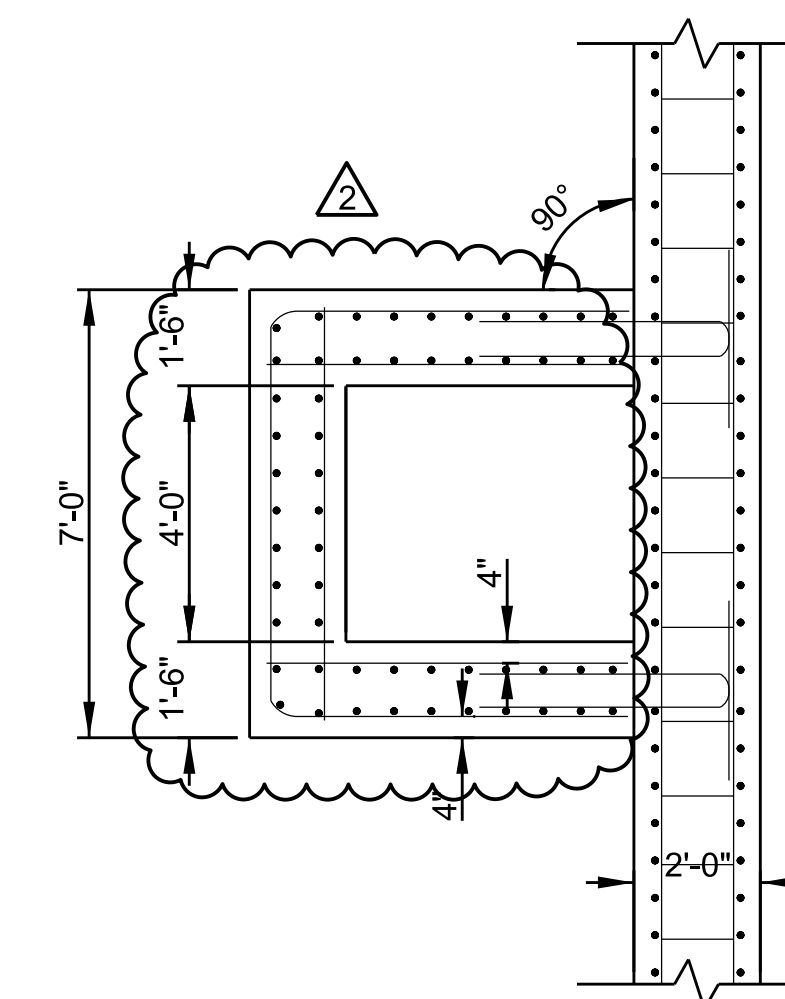
- SCALE: 1/3" = 1'
- 0 3' 6' 12'
-
- A horizontal scale bar with alternating black and white segments. The segments are labeled 0, 3', 6', and 12' from left to right. The total length of the bar represents 12 feet.



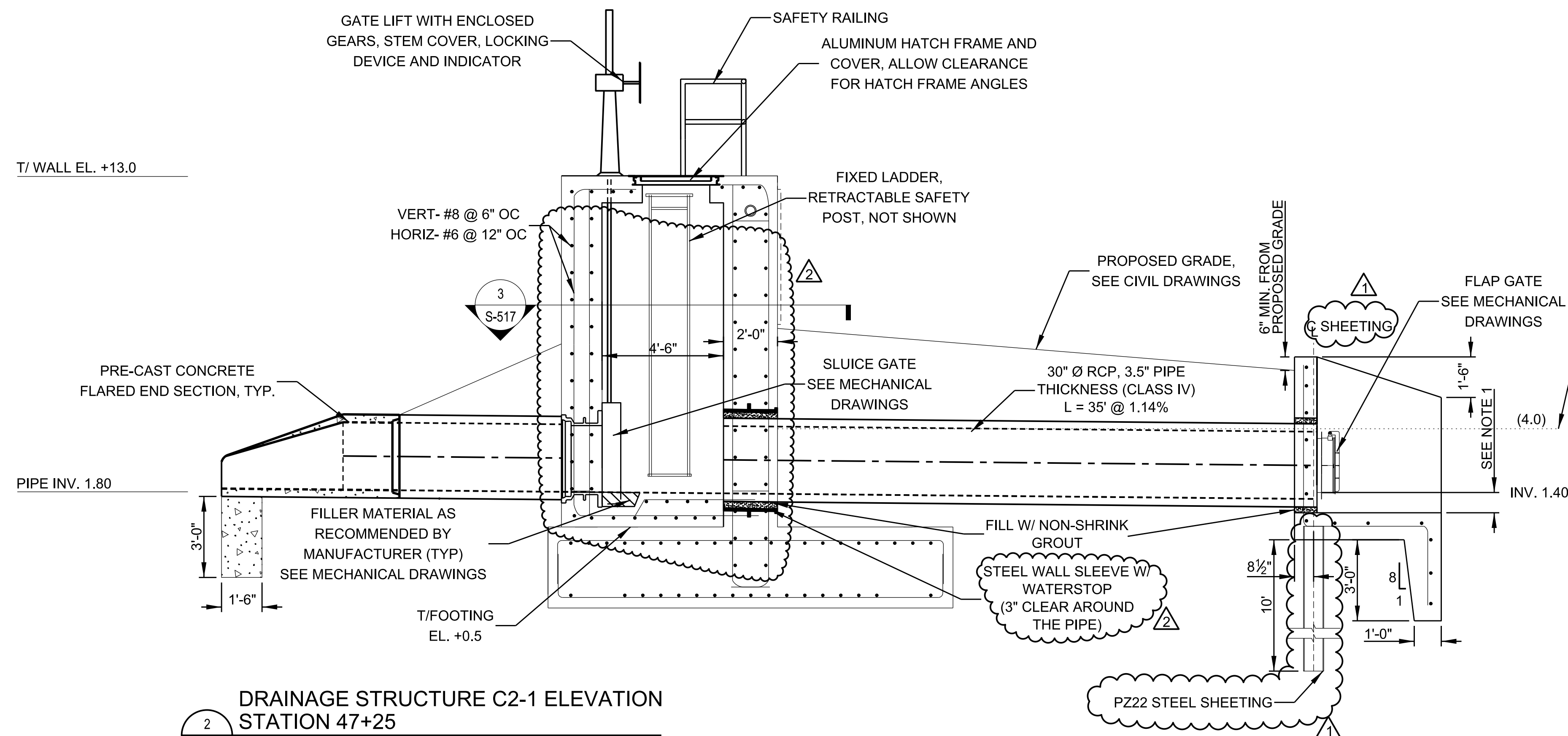
DRAINAGE STRUCTURE C2-1 PLAN
STATION 47+25
1
S-517
SCALE $\frac{1}{8}" = 1'$

PROTECTED SIDE

FLOOD SIDE



3 C2-1 SECTION
S-517 SCALE $\frac{1}{3}'' = 1'$



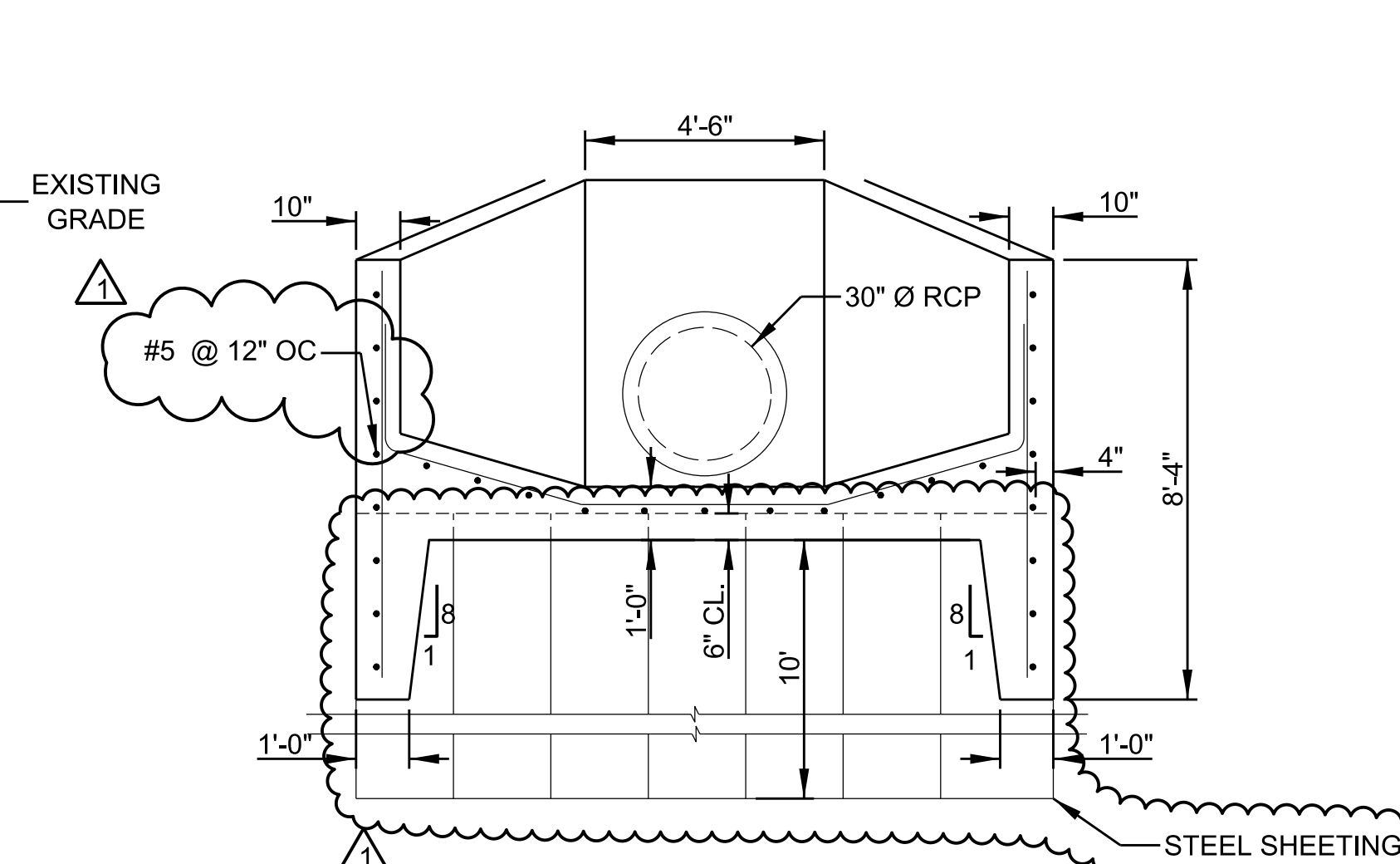
DRAINAGE STRUCTURE C2-1 ELEVATION
STATION 47+25

2
S-517

SCALE $\frac{1}{8}" = 1'$

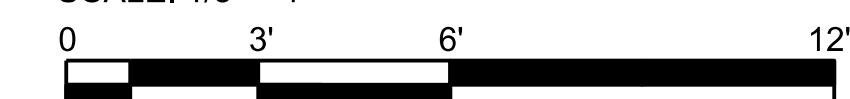
NOTES:

1. PROVIDE SUFFICIENT CLEARANCE FOR FLANGE MOUNTING PER MANUFACTURER'S REQUIREMENTS (REFER TO MECHANICAL DRAWINGS)
2. SEE CIVIL DRAWINGS FOR PIPE INFORMATION.
3. WIDTH OF CONCRETE SUPPORT MATCHES WIDTH OF PRECAST FLARED END SECTION.



4 C2-1 OUTLET
S-517 SCALE $\frac{1}{8}'' = 1'$

SCALE: 1/3" = 1'



SHEET
IDENTIFICATION
S-520
SHEET 143 OF 148