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NEW YORK DISTRICT NEW YORK, NY	OWNER BY:	CONTRACT NO.:
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	SUBMITTED BY:	ISSUE DATE:
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		C:\101\991

RARITAN BAY & SANDY HOOK BAY
PHASE II, CONTRACT 4
PORT MONMOUTH, NJ

SITE PLAN

STA 0+00 TO STA 7+20

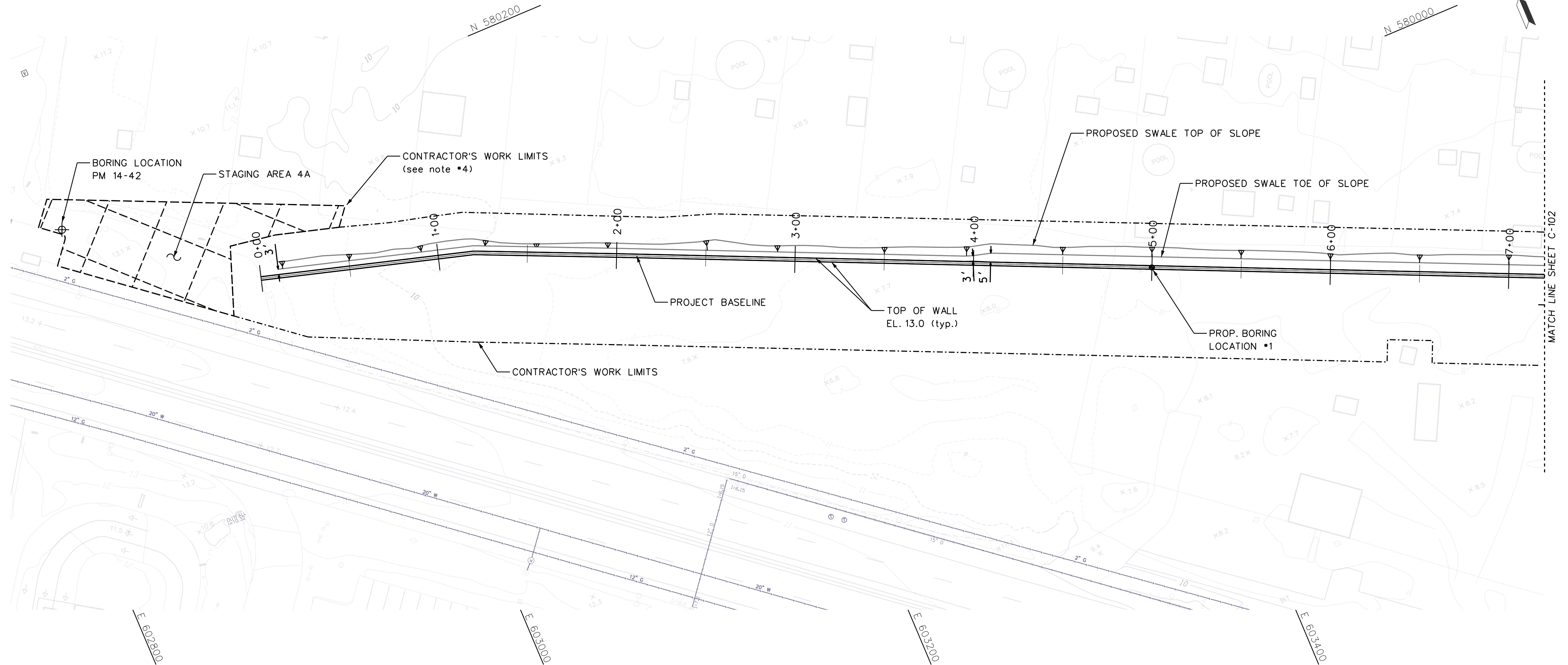
SHEET
IDENTIFICATION
C-101
SHEET **13** OF **148**

D

C

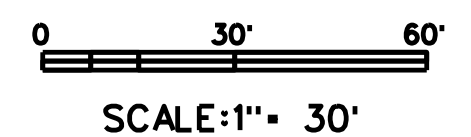
B

A

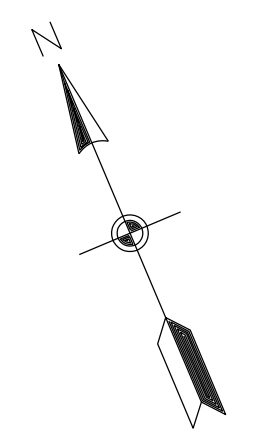


NOTES:

1. REFER TO GENERAL PLAN SHEET G-103 FOR REFERENCE LINE COORDINATES.
2. ANY EXISTING FEATURES IN CONFLICT WITH THE PROPOSED ALIGNMENT SHALL BE REMOVED AND RESTORED, EXCEPT AS OTHERWISE SPECIFIED.
3. PROJECT BASELINE, AS SHOWN, IS APPROXIMATE. CONTRACTOR SHALL HAVE THEIR SURVEYOR CONFIRM THE EXACT LOCATION OF THE REFERENCE LINE. THE CONTRACTOR'S WORK LIMIT (ON THE PROTECTED SIDE) SHALL BE SET ON THE REAR PROPERTY LINES FOR THE RESIDENTIAL PROPERTIES FRONTING ON WILLOW STREET, THEREBY, KEEPING THE WORKING AREA OUTSIDE OF THE RESIDENTIAL LOTS.
4. THE CONTRACTOR SHALL USE MIDDLETOWN COMMUTER LOT #6 (BLOCK #265, LOT #60.01) AS A STAGING AREA (4A), WITHIN THE LIMITS AS INDICATED.
5. REFER TO SPEC SECTION 00 90 03 FOR BORING DATA AND 31 00 00 FOR PROPOSED BORING INFORMATION.



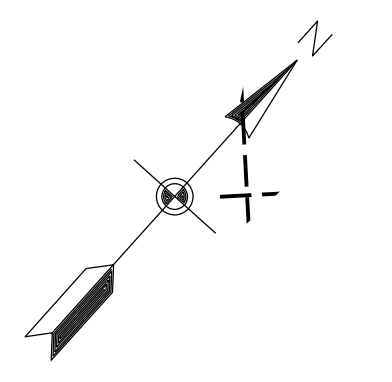
A vertical number line with four tick marks. From bottom to top, the tick marks are labeled A, B, C, and D. The line is a solid black vertical bar.



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SHEET
IDENTIFICATION
C-102
SHEET **14** OF **148**

A vertical number line with four tick marks. From bottom to top, the tick marks are labeled A, B, C, and D. The line is a solid black vertical bar.



- | | | | | | |
|---|--|--|-------------------------|-------------------------|-------------|
| HURRICANE & STORM DAMAGE REDUCTION
RARITAN BAY & SANDY HOOK BAY
PHASE II, CONTRACT 4
PORT MONMOUTH, NJ | | U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NY | | DESIGNED BY:
NS | DATE:
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KW | SOLICITATION NO.:
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ANS/D | FILE NAME:
C-103.dgn | | |

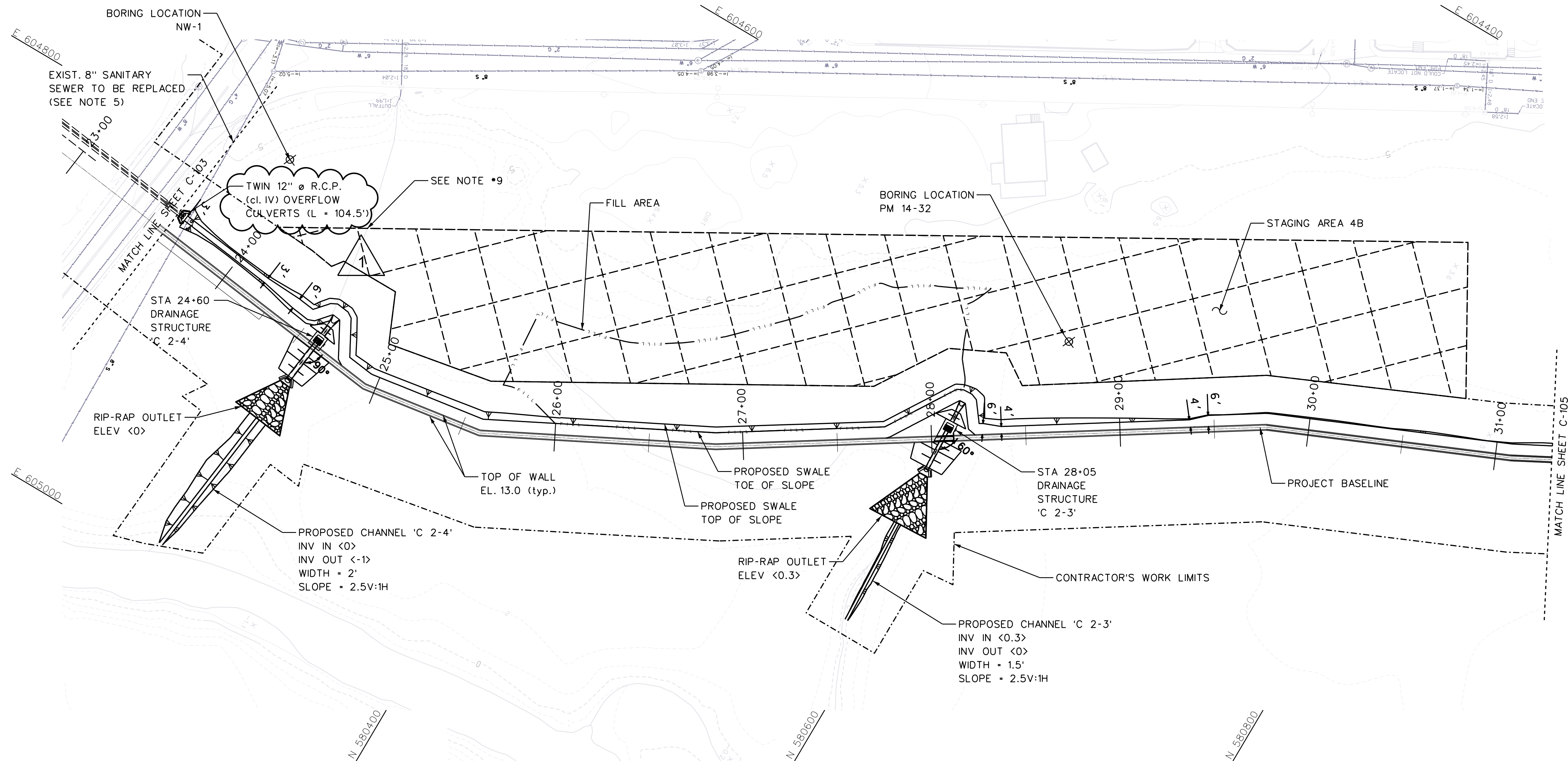
STA 23+60 TO STA 31+30

D

C

B

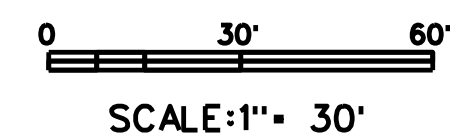
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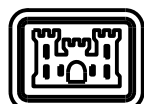


NOTES:

1. REFER TO GENERAL PLAN SHEET G-103 FOR REFERENCE LINE COORDINATES.
2. ANY EXISTING FEATURES IN CONFLICT WITH THE PROPOSED ALIGNMENT SHALL BE REMOVED AND RESTORED, EXCEPT AS OTHERWISE SPECIFIED.
3. SEE SHEET S-513 FOR PLAN AND PROFILE OF DRAINAGE STRUCTURE 'C 2-4'.
4. SEE SHEET S-514 FOR PLAN AND PROFILE OF DRAINAGE STRUCTURE 'C 2-3'.
5. REFER TO SHEET C-109 FOR PLAN AND PROFILE OF 8" SANITARY SEWER TO BE REPLACED, AND GAS & WATER TO BE REPLACED WITHIN CAMPBELL AVENUE.
6. SEE SHEET C-515 FOR RIPRAP OUTLET DIMENSIONS.

7. THE LIMITS FOR STAGING AREA 4B ARE APPROXIMATE. STAGING AREA SHALL BE CONTAINED WITHIN LAND OWNED BY THE COUNTY/STATE, AND THEY WILL FINALIZE THOSE LIMITS.
8. REFER TO SPEC SECTION 00 90 03 FOR BORING DATA.
9. ALL EXISTING DRAINAGE SWALES ON THE PROTECTED SIDE ARE TO REMAIN. SWALES THAT ARE WITHIN THE STAGING AREAS SHALL BE PIPED, OR THAT AREA SHALL REMAIN IN ITS NATURAL CONDITION. E+SC MEASURES SHALL BE PROVIDED, AS NECESSARY. IF THE SWALE IS PIPE, IT WILL BE RETURNED TO ITS NATURAL CONDITION AS THE END OF CONSTRUCTION.





US Army Corps
of Engineers
New York District

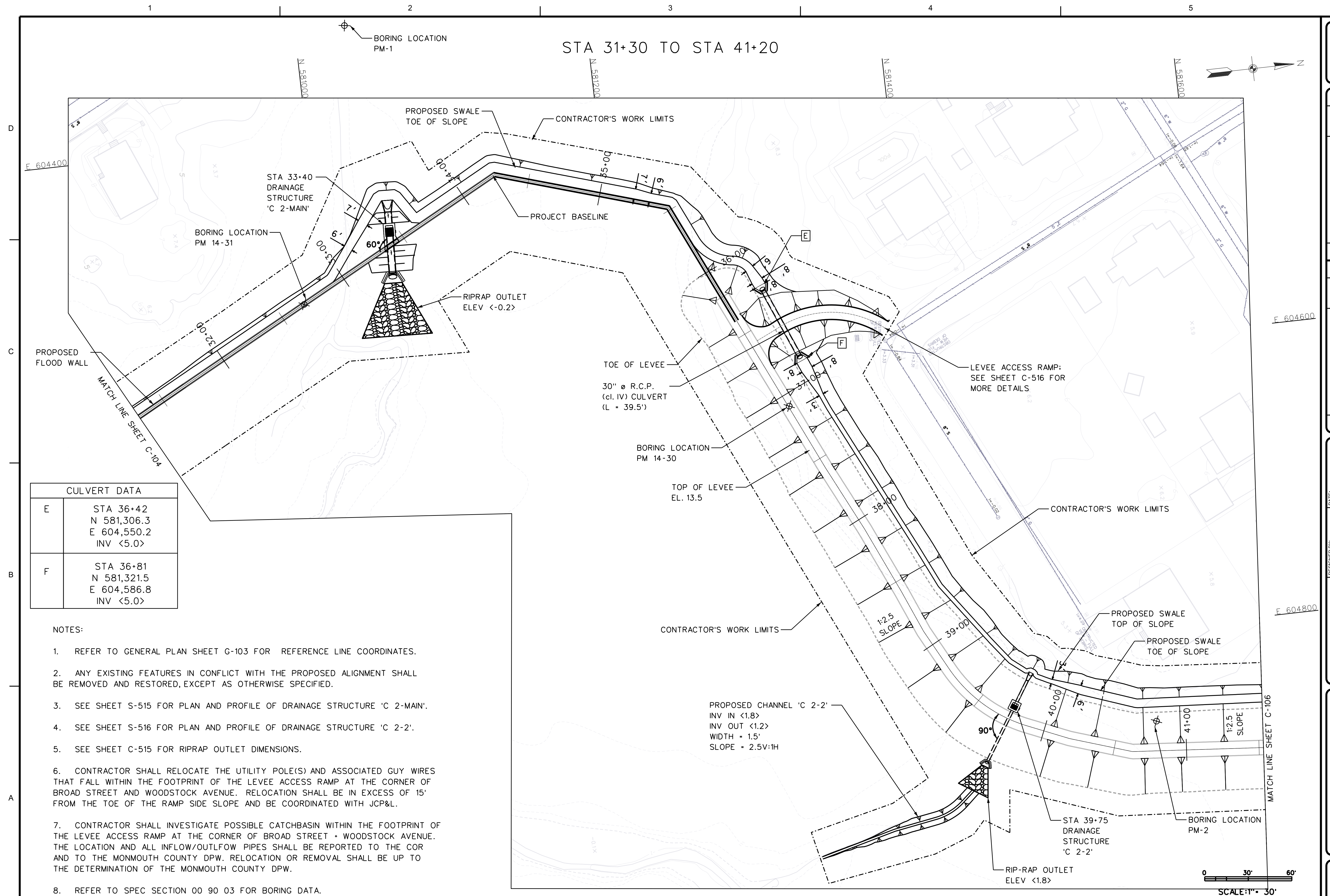
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24 AUG 2017	REV IN ACCORDANCE WITH AMDT 0001		
FEB 2018	REV IN ACCORDANCE WITH AMDT 0005		

DATE	FILE NAME	FILE NUMBER	CONTRACT NO.	SOLICITATION NO.
NS	N.T.S.	ANS/D		

HURRICANE & STORM DAMAGE REDUCTION
RARIKAN BAY & SANDY HOOK BAY
PORT MONMOUTH, NJ

SITE PLAN
STA 23+60 TO STA 31+30

SHEET
IDENTIFICATION
C-104
SHEET 16 OF 148



**Army Corps
Engineers®**
New York District

[illegible]

NEW YORK DISTRICT NEW YORK, NY	SUBMITTED BY:		CONTRACT NO.:	
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PORT MONMOUTH, NJ
PHASE II, CONTRACT 4
NAUTICAL DAT & SAND FLOOR DAT

SHEET
IDENTIFICATION
C-105
SHEET 17 OF 148

[illegible]

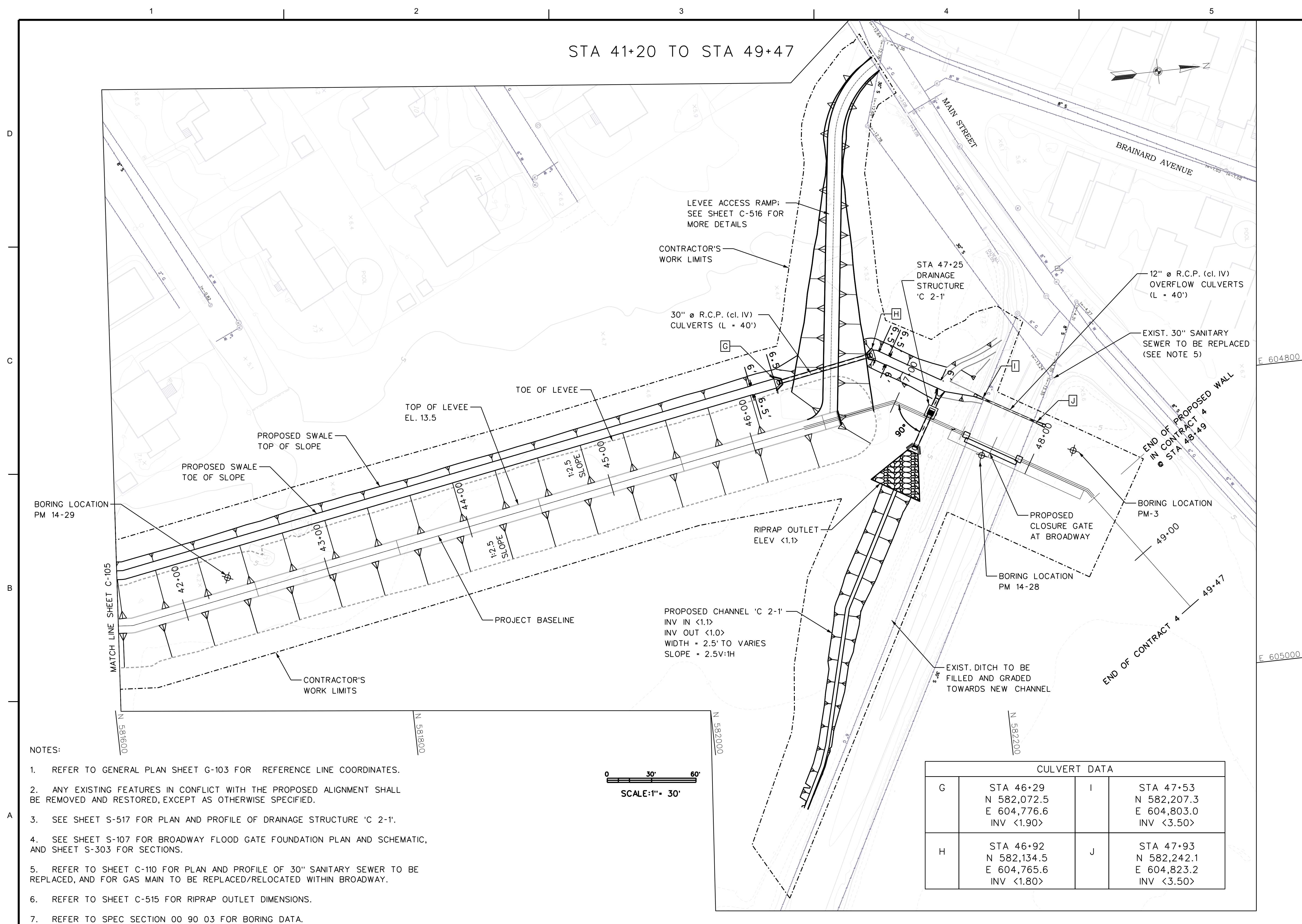
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NEW YORK DISTRICT		DRAWN BY:	SOLICITATION NO.:
NEW YORK, NY		KW	
NS		SUBMITTED BY:	CONTRACT NO.:
NS			
N.T.S.		PLOT SCALE:	ISSUE DATE:
		SIZE:	FILE NAME:
ANSI D		C-106.dgn	

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

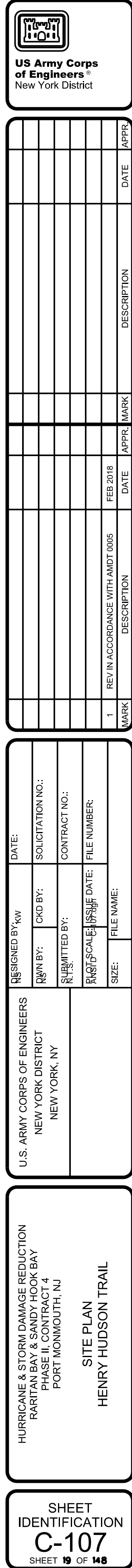
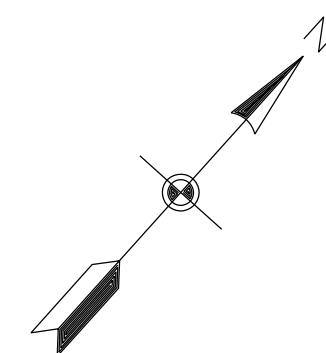
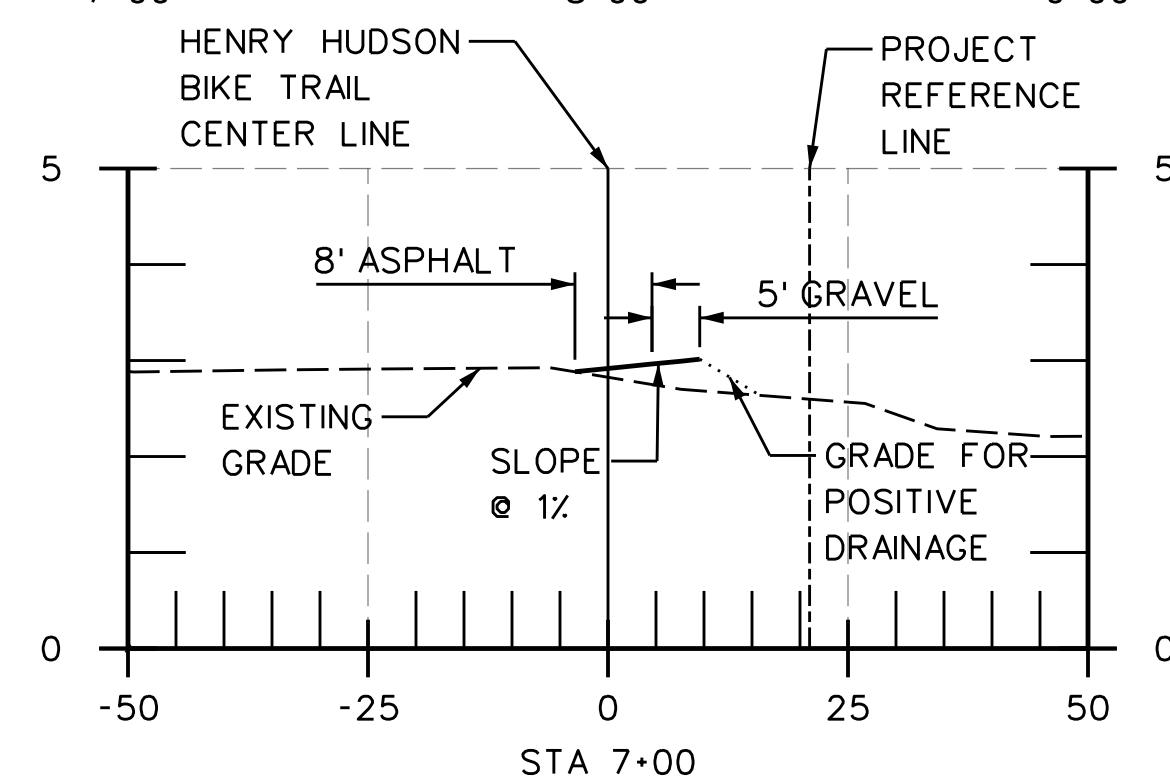
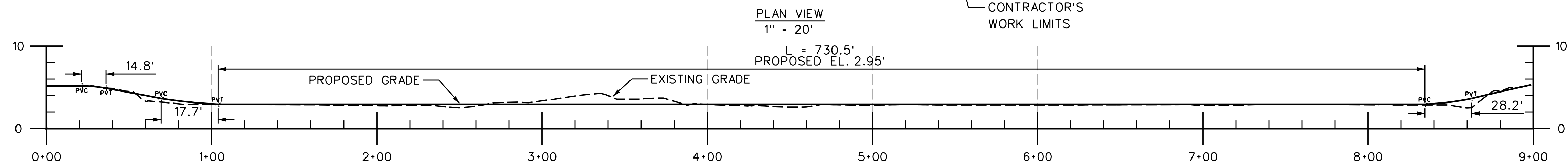
SITE PLAN

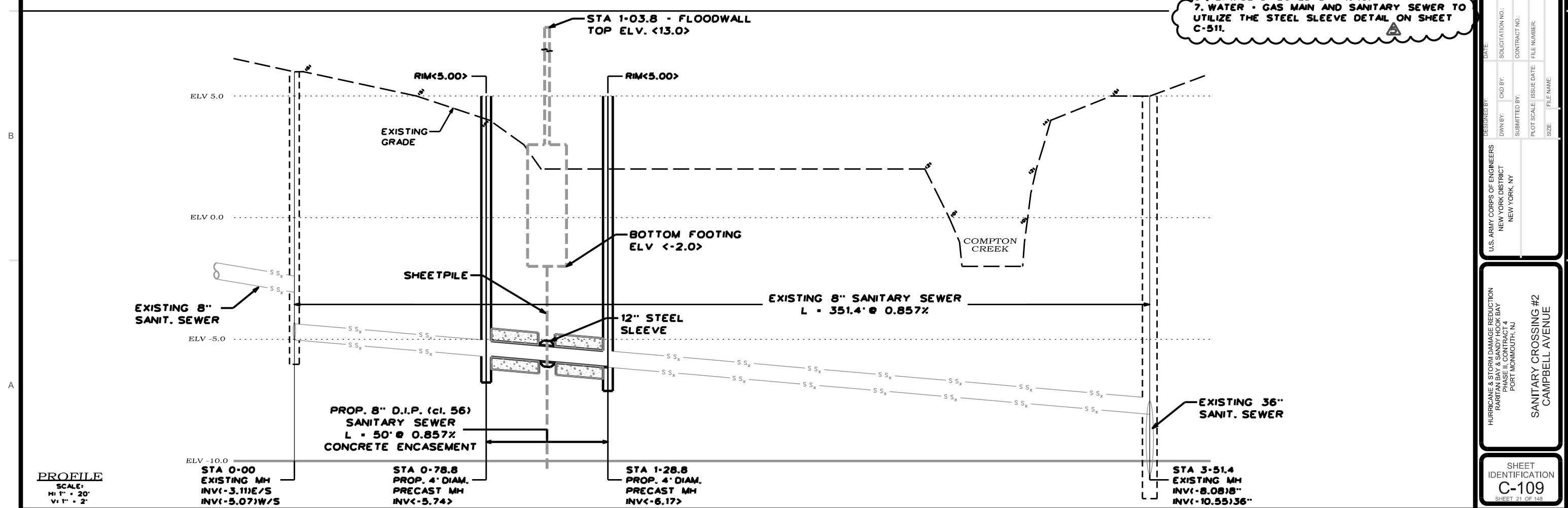
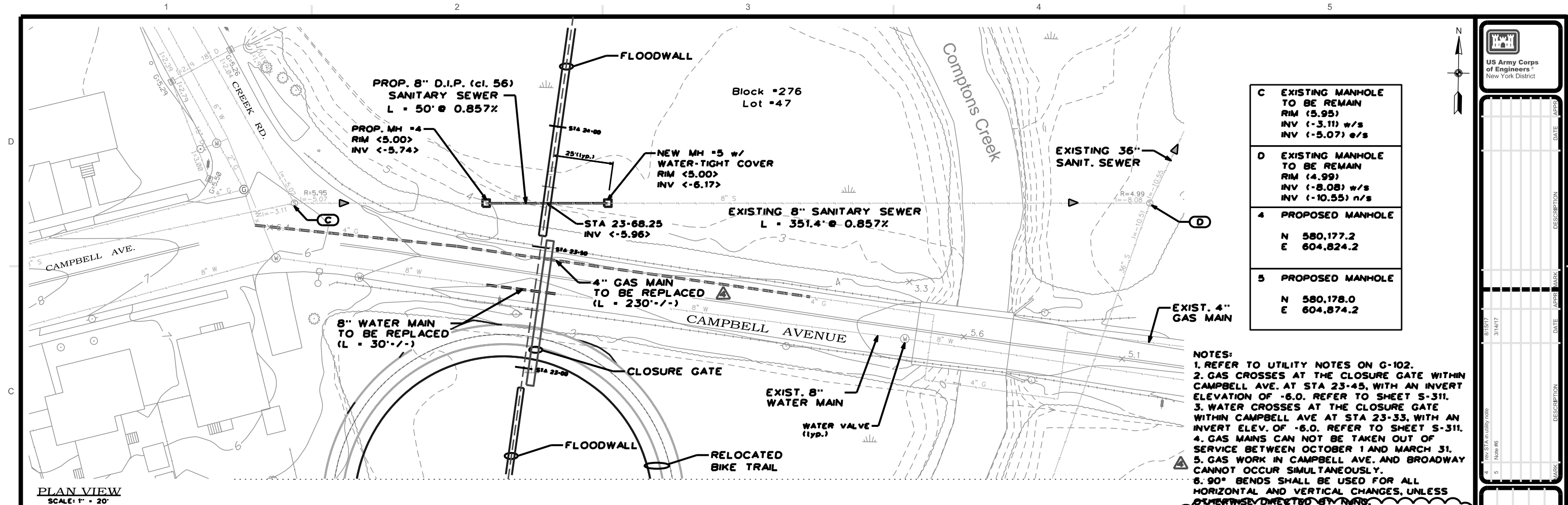
STA 41+20 TO STA 49+47

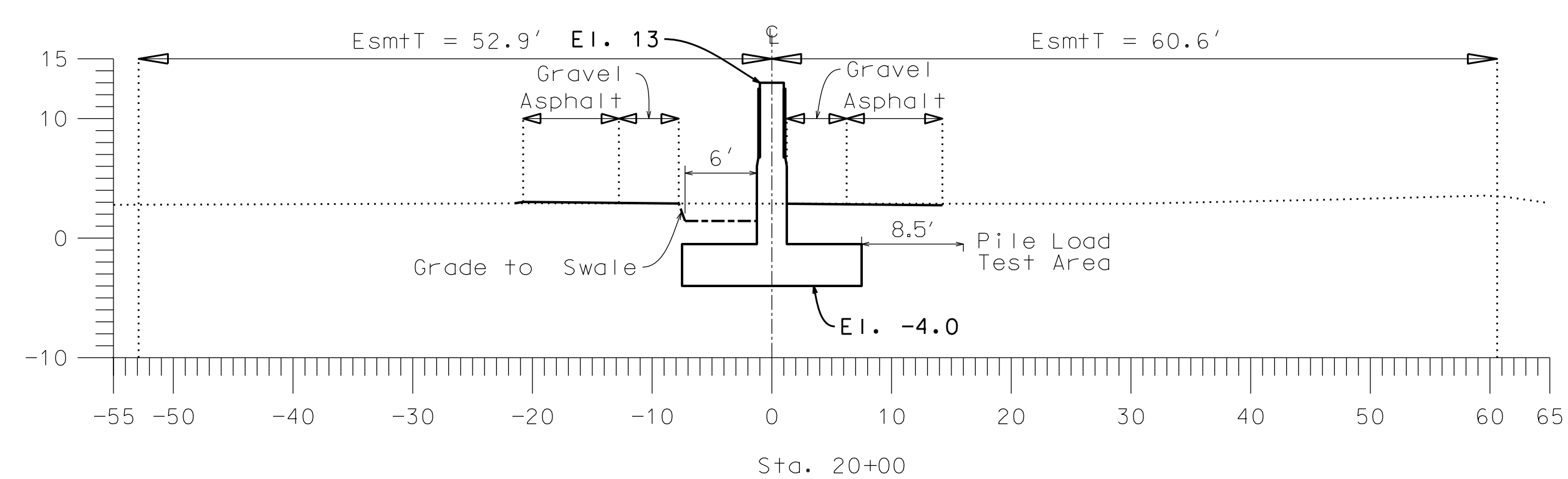
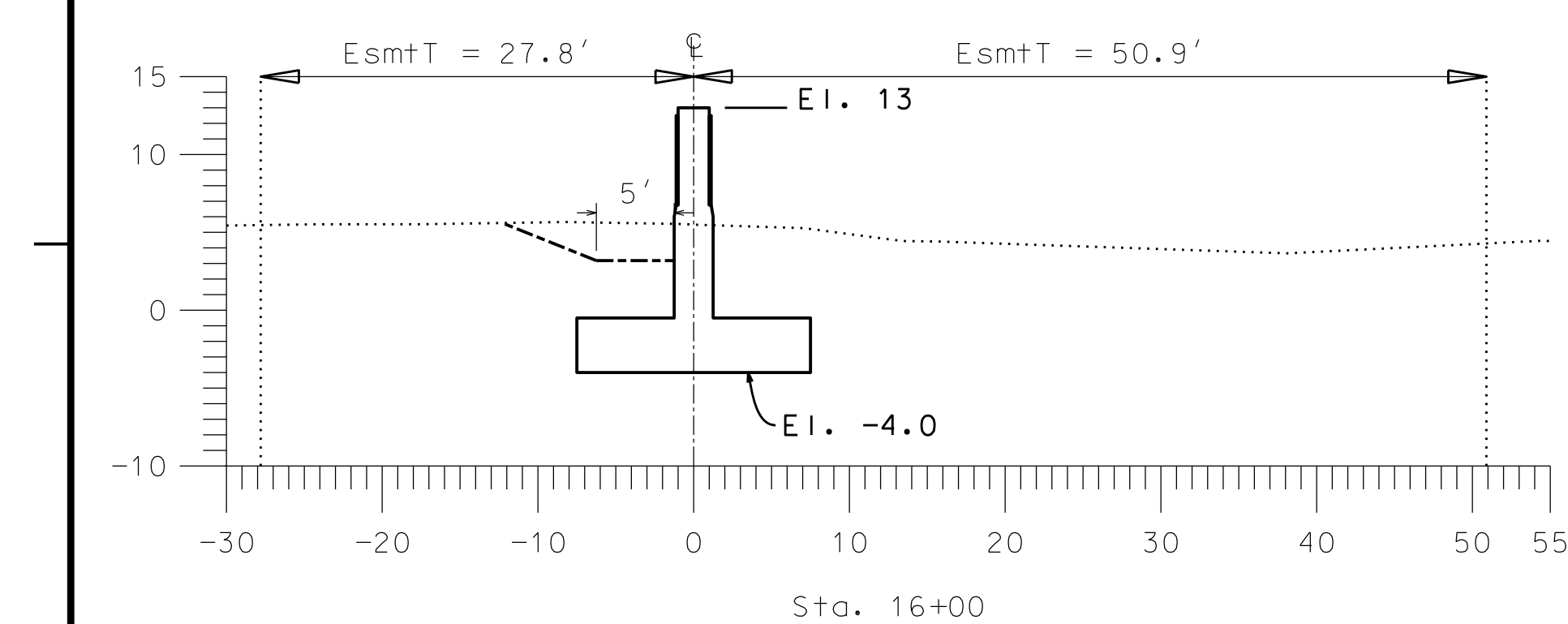
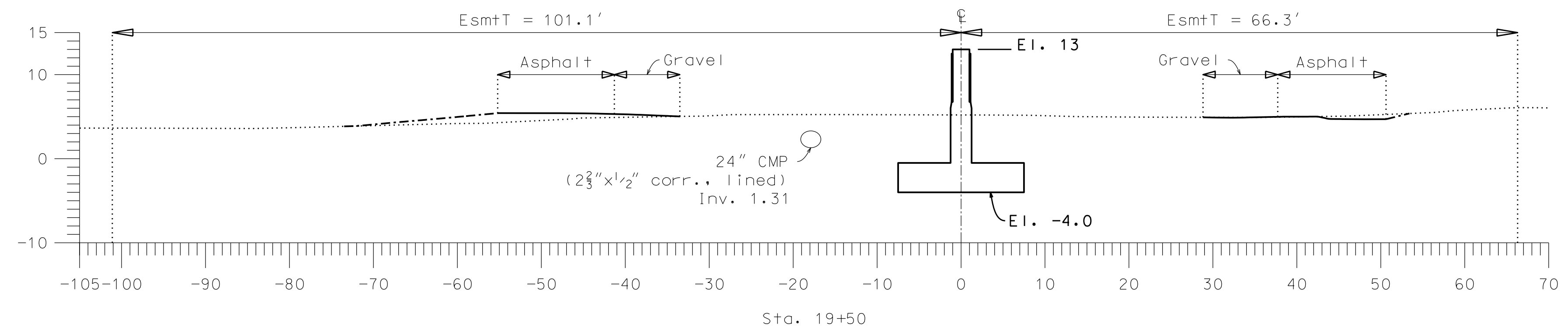
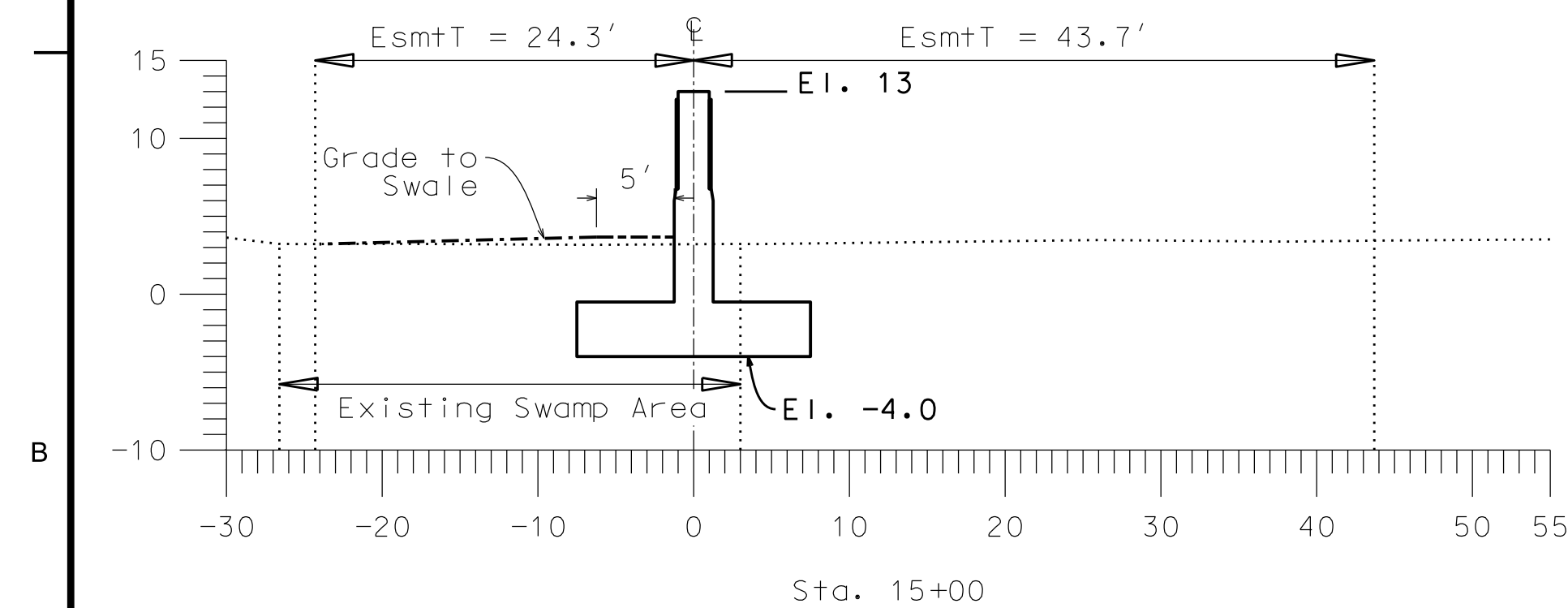
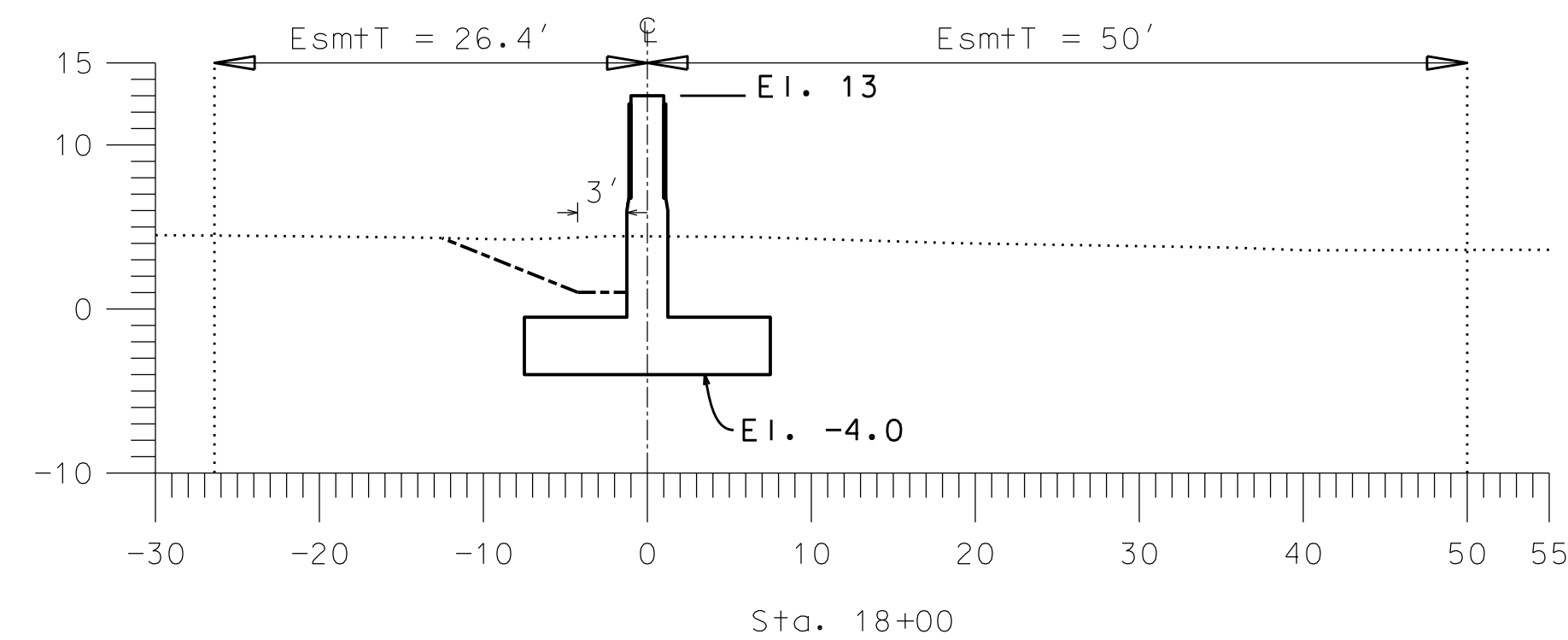
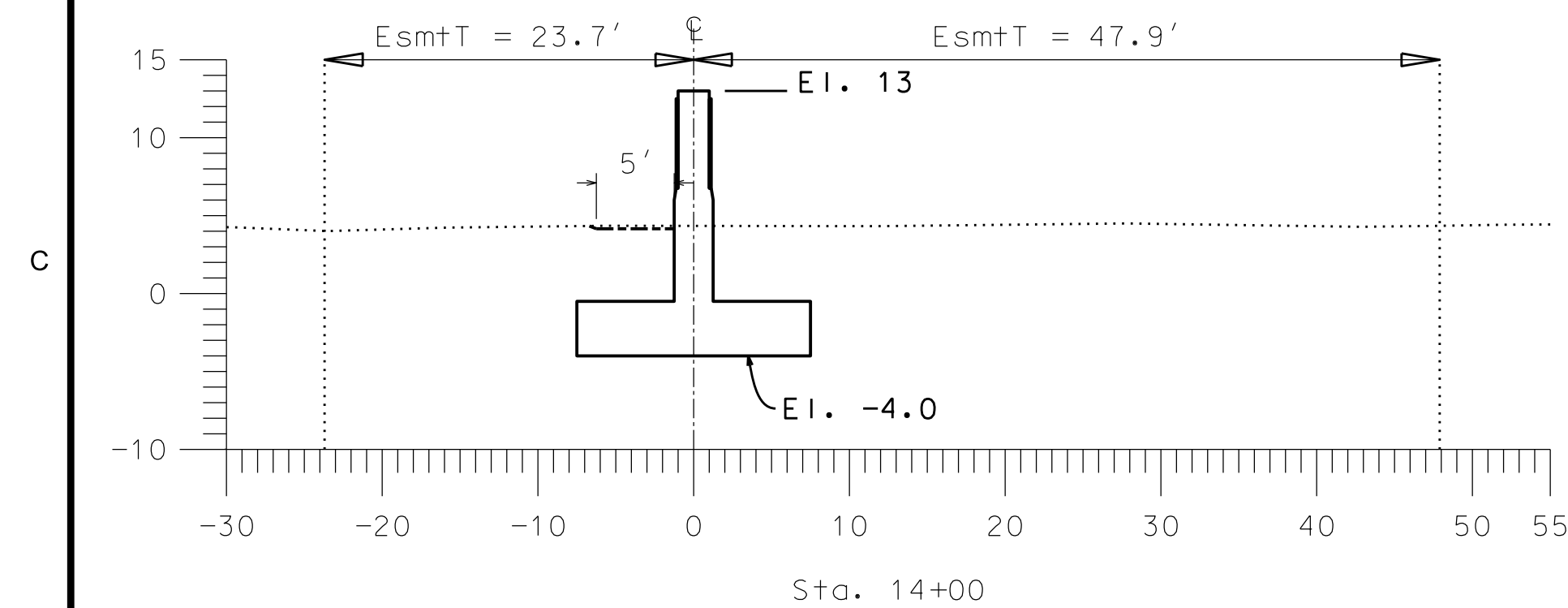
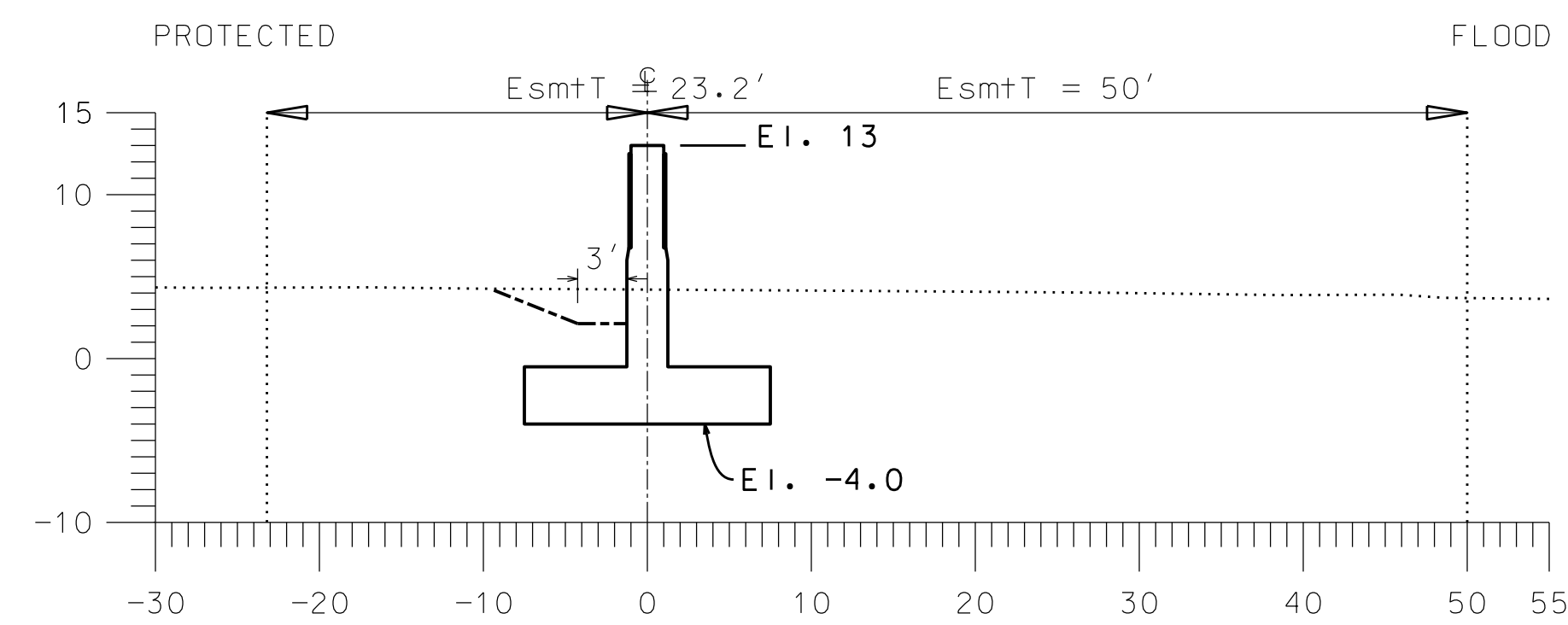
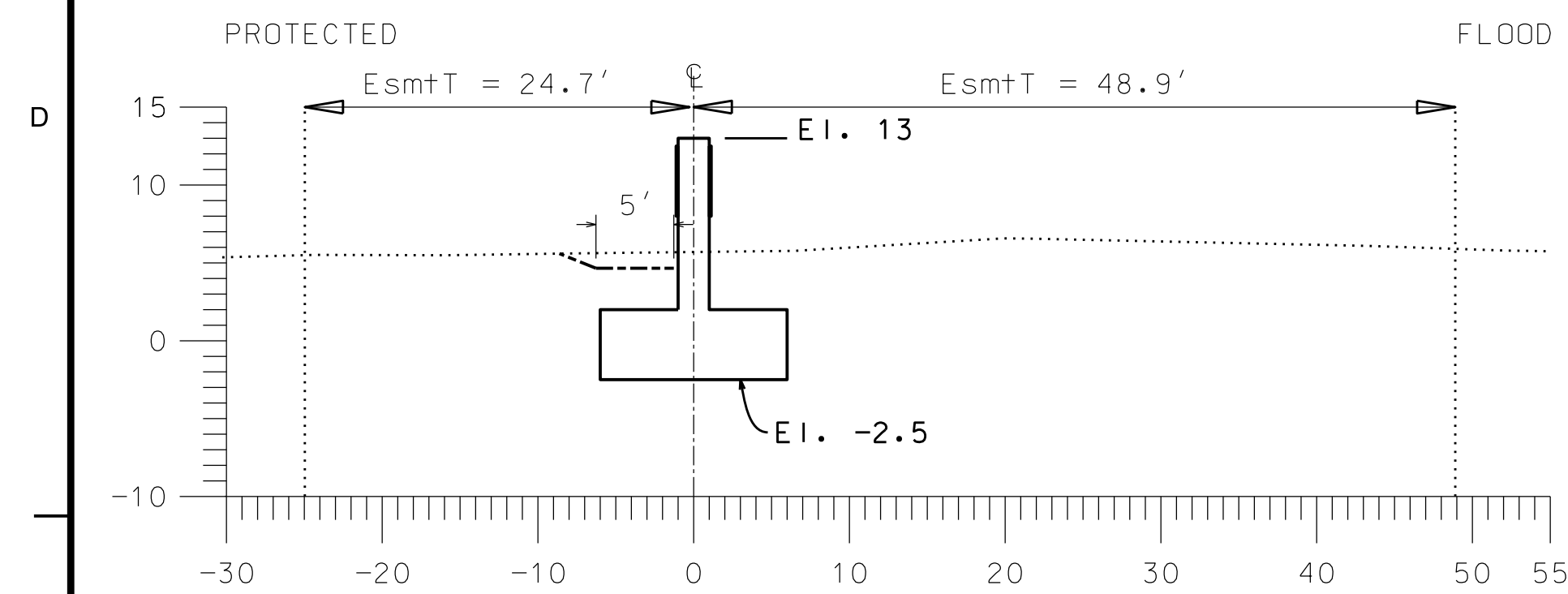
SHEET
IDENTIFICATION
C-106
SHEET 18 OF 148



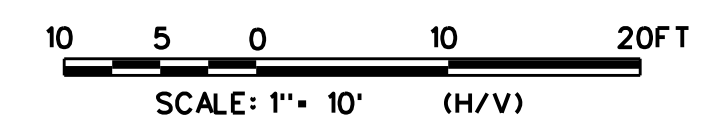
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HH12	580050.64	604763.13
HH13	580039.04	604902.12
HH14	580002.45	604894.59
HH15	579947.77	604839.77
HH16	579937.33	604790.73
HH17	579930.74	604777.94
HH18	579906.54	604744.43
HH19	579863.00	604691.64
HH20	579807.33	604694.12







NOTE: All slopes are 2.5H:1V unless otherwise indicated.



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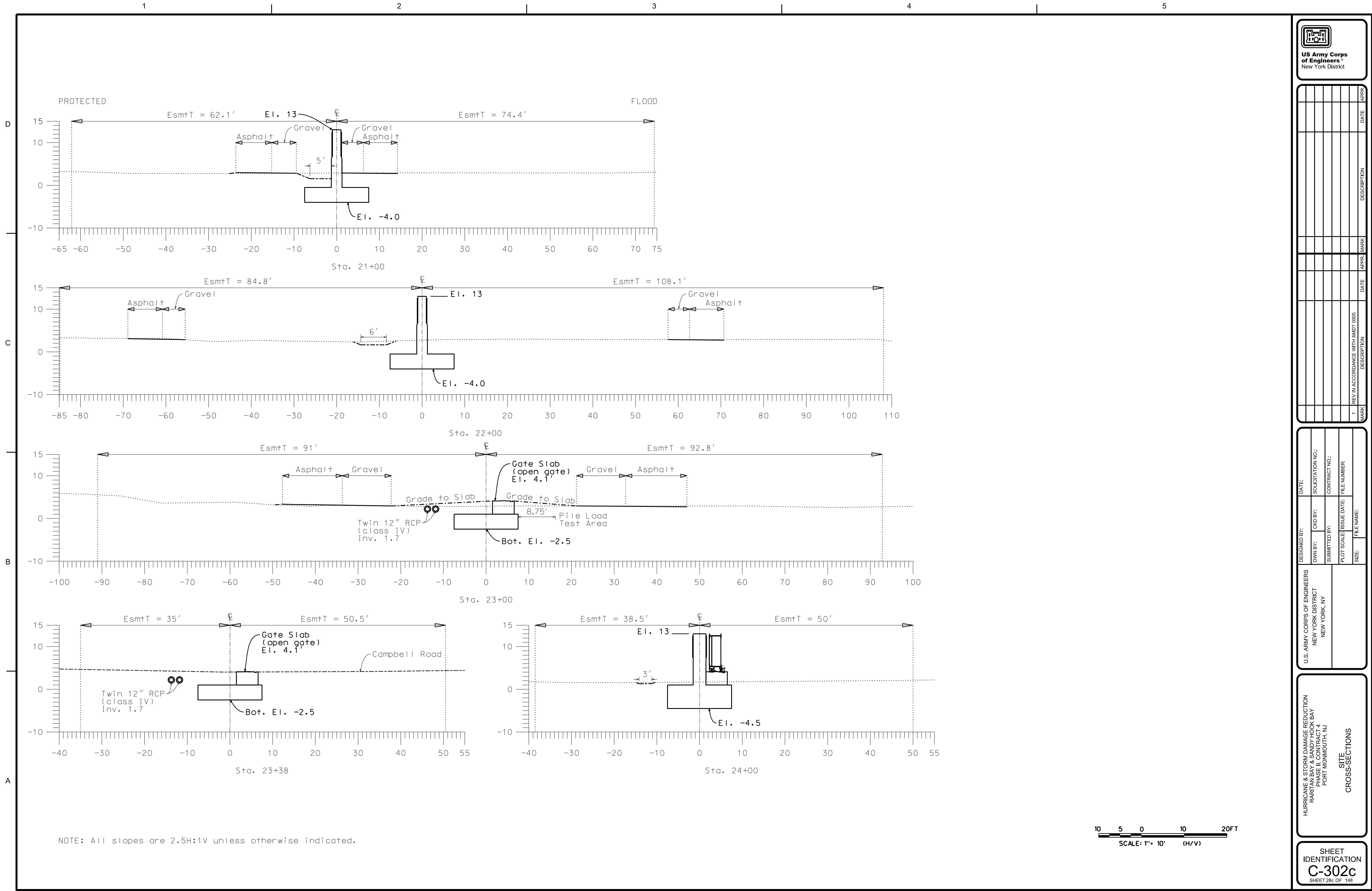
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U.S. AIR FORCE CORP OF ENGINEERS NEW YORK DISTRICT NEW YORK, NY	DWN BY:	CAD BY:	SOLICITATION NO.:
	SUBMITTED BY:		CONTRACT NO.:
	PLOT SCALE:	ISSUE DATE:	FILE NUMBER:
	SIZE:	FILE NAME:	

CITY
RARITAN BAY & SANDY HOOK BAY
PHASE II, CONTRACT 4
PORT MONMOUTH, NJ

CROSS-SECTIONS

SHEET
IDENTIFICATION
C-302b
SHEET 28b OF 148



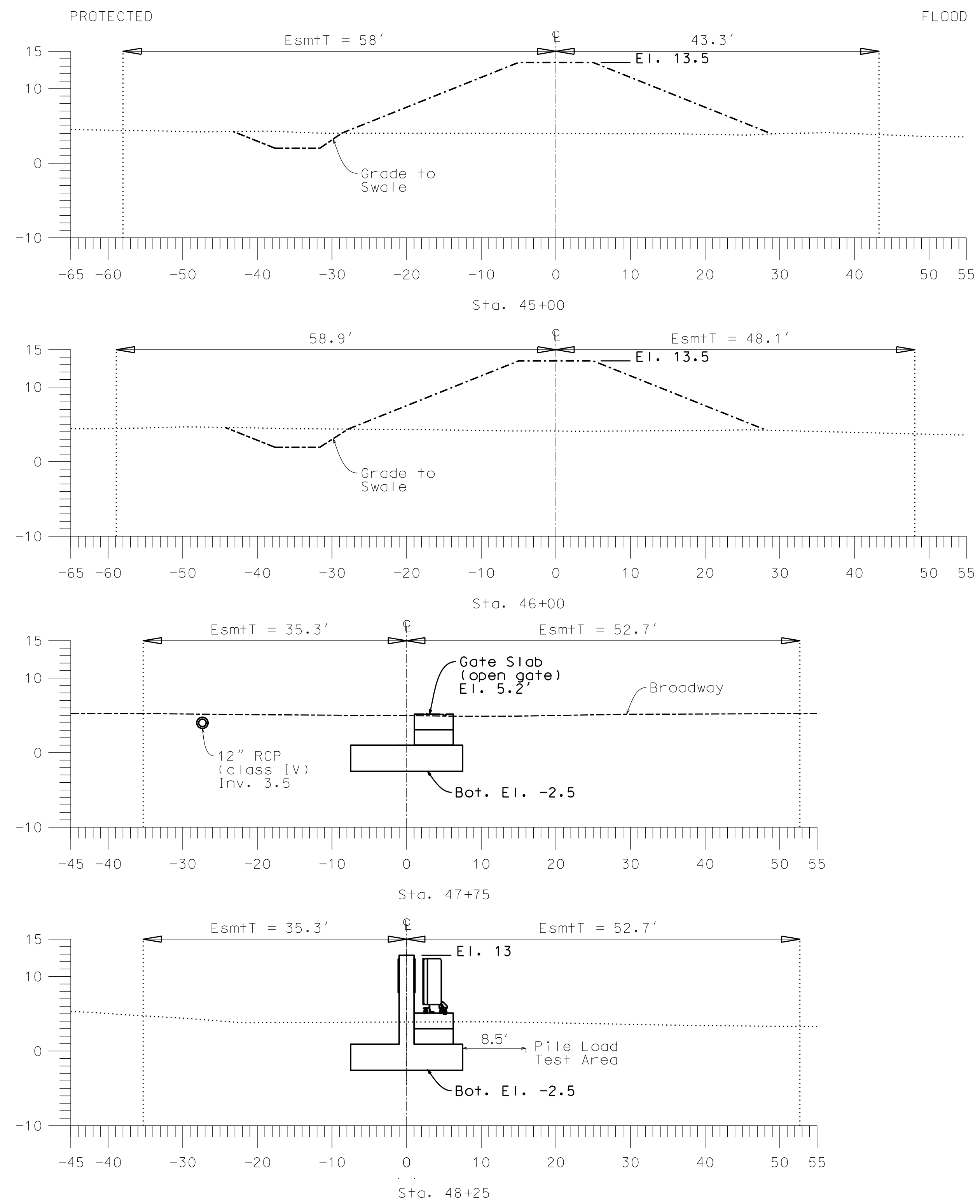
SHEET
IDENTIFICATION
C-303b
SHEET 29b OF 148

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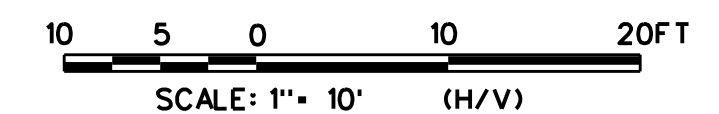
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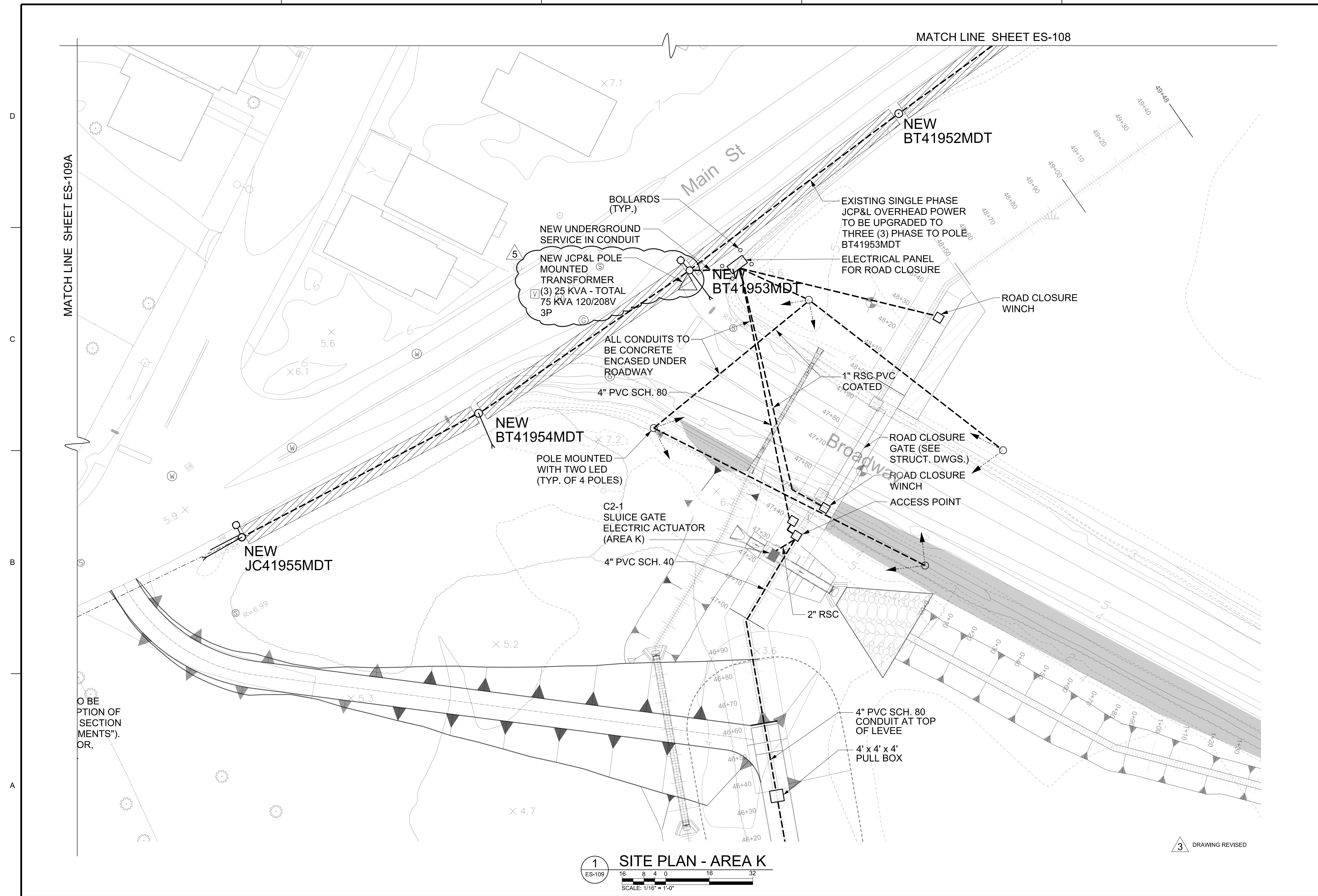
HURRICANE & STORM DAMAGE REDUCTION
RARITAN BAY & SANDY HOOK BAY
PHASE II, CONTRACT 4
PORT MONMOUTH, NJ

SHEET
IDENTIFICATION
C-303c
SHEET 29c OF 148

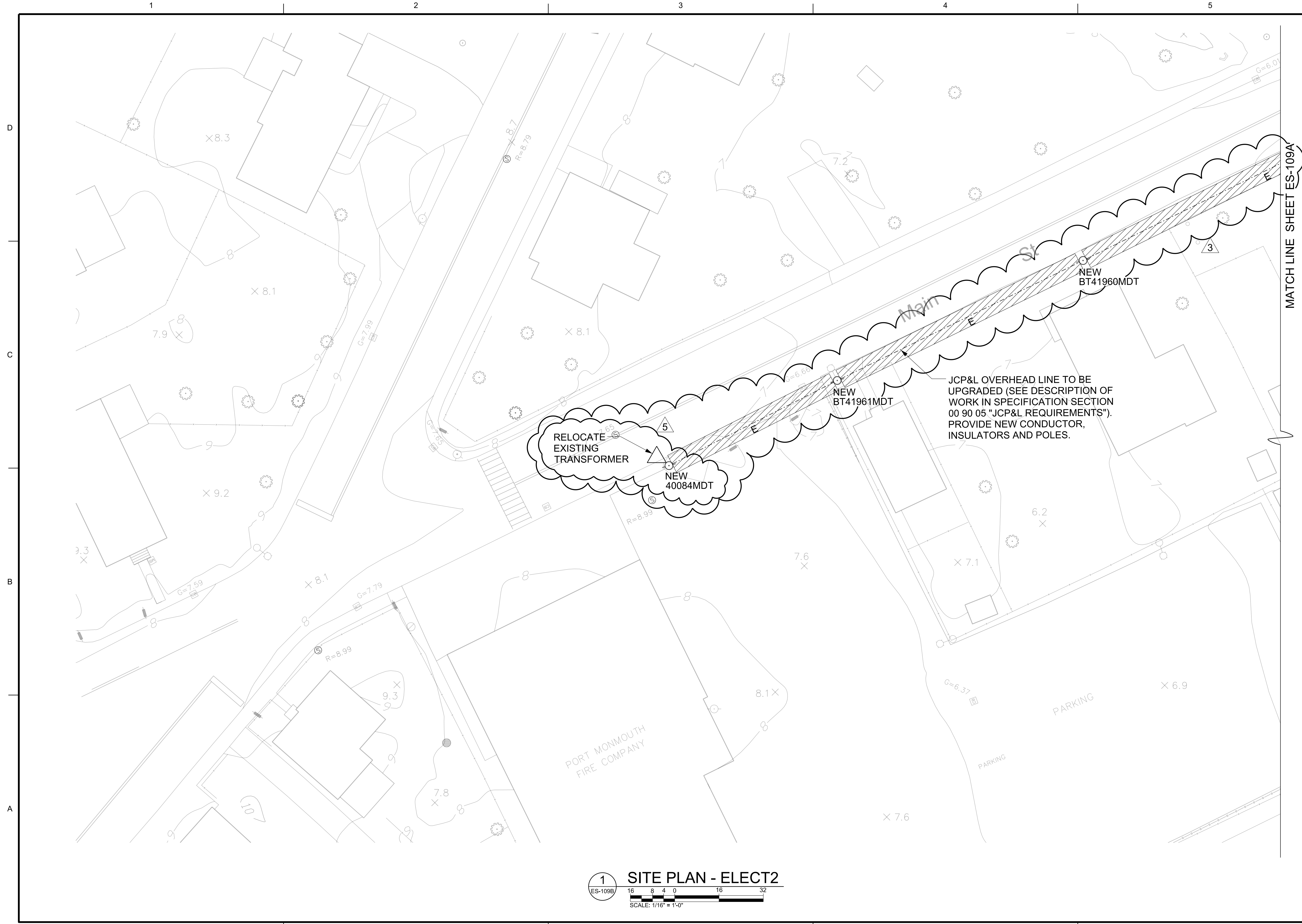


NOTE: All slopes are 2.5H:1V unless otherwise indicated.

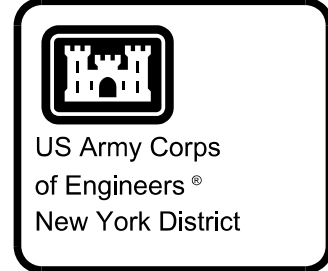




Submitted by: USERNAME
Plot Date: DD-MMM-YYYY HH:MM



MATCH LINE SHEET ES-109A

[illegible]

	U. S. ARMY ENGINEER DISTRICT NEW YORK http://www.nan.usace.army.mil		DESIGNED BY:	DATE: 15 APR 2015
			DRAW BY: X.X.X.	SOLICITATION NO.: W-
			SUBMITTED BY:	CONTRACT NO.:
			PLOT SCALE:	FILE NUMBER:
			FILE NAME:	

HURRICANE + STORM DAMAGE REDUCTION
RARTIAN BAY + SANDY HOOK BAY
PHASE II - CONTRACT #4
PORT MONMOUTH, NEW JERSEY

SITE PLAN - AREA ELECT2

Sheet
Reference
Number
ES-109B
Sheet 93 of 148

Submitted by: USERNAME

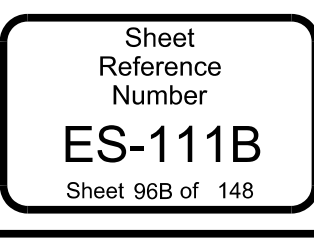


MATCH LINE SHEET ES-111

SITE PLAN - AREA M2



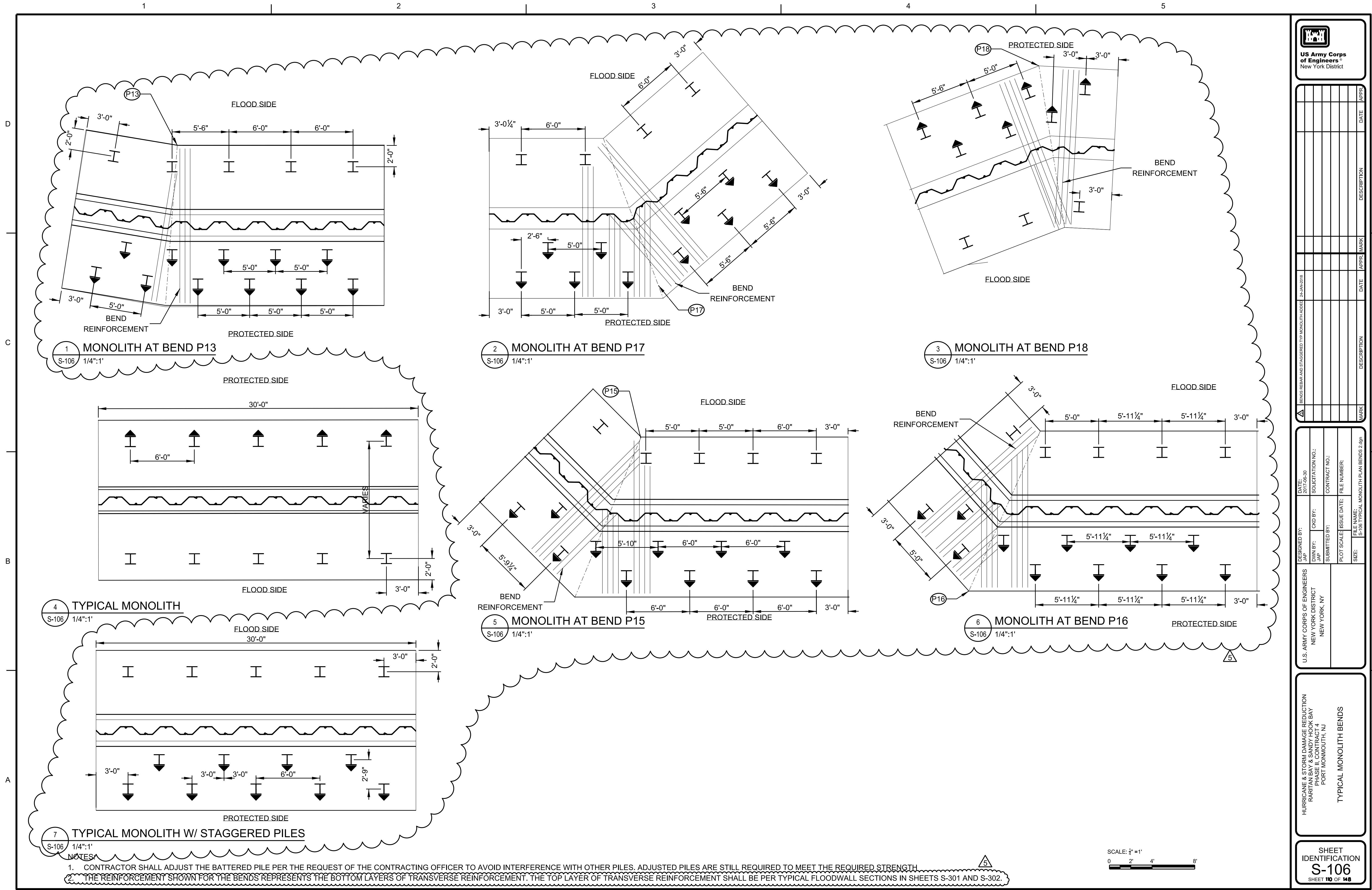
MATCH LINE SHEET ES-111A



I. DESIGN LOADS:

A. DEAD LOAD

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





4'-0"

4'-0"

#5 TIES @12" O.C.

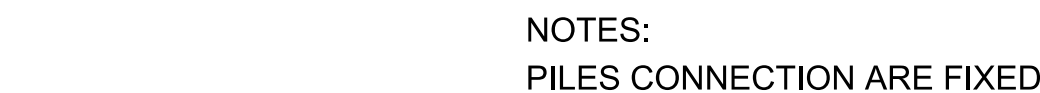
34 #11 VERTICAL BARS
AS SHOWN

4" CLR.

NOTES:
PILES CONNECTION ARE FIXED

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.

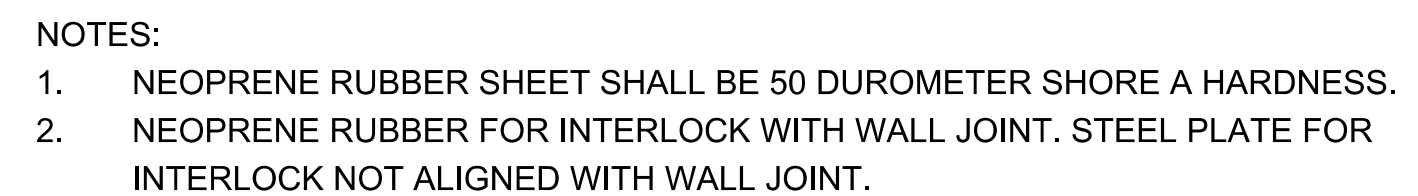
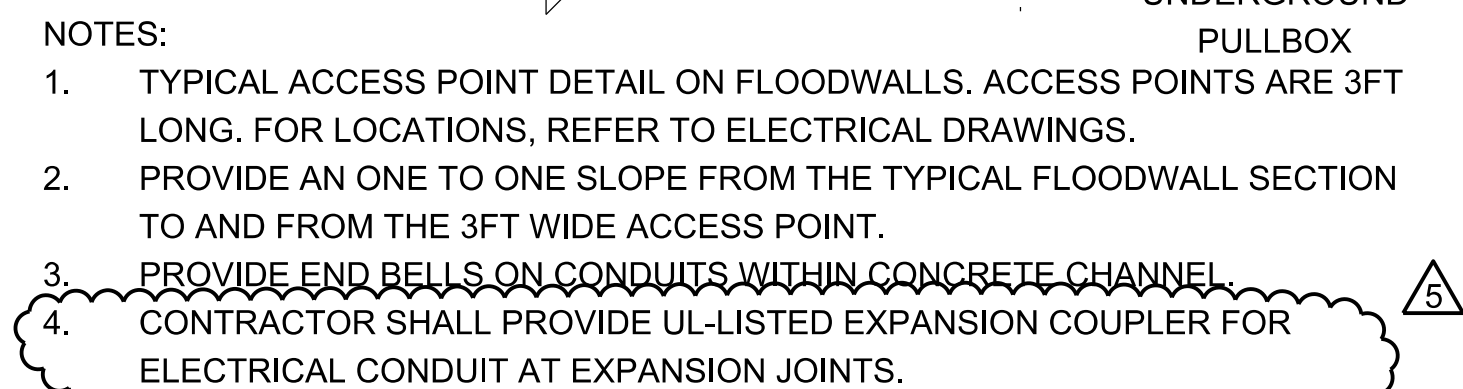


SCALE: $\frac{1}{2}" = 1'$



SCALE: $2" = 5'$



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U.S. ARMY CORPS OF ENGINEERS NEW YORK DISTRICT NEW YORK, NY	DATE BY:	SOLICITATION NO.:
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	CHK:	
	SUBMITTED BY:	CONTRACT NO.:
	PLOT SCALE:	ISSUE DATE:
	SIZE: ANS'D	FILE NAME:

RARITAN BAY & SANDY HOOK BAY PHASE II, CONTRACT 4 PORT MONMOUTH, NJ

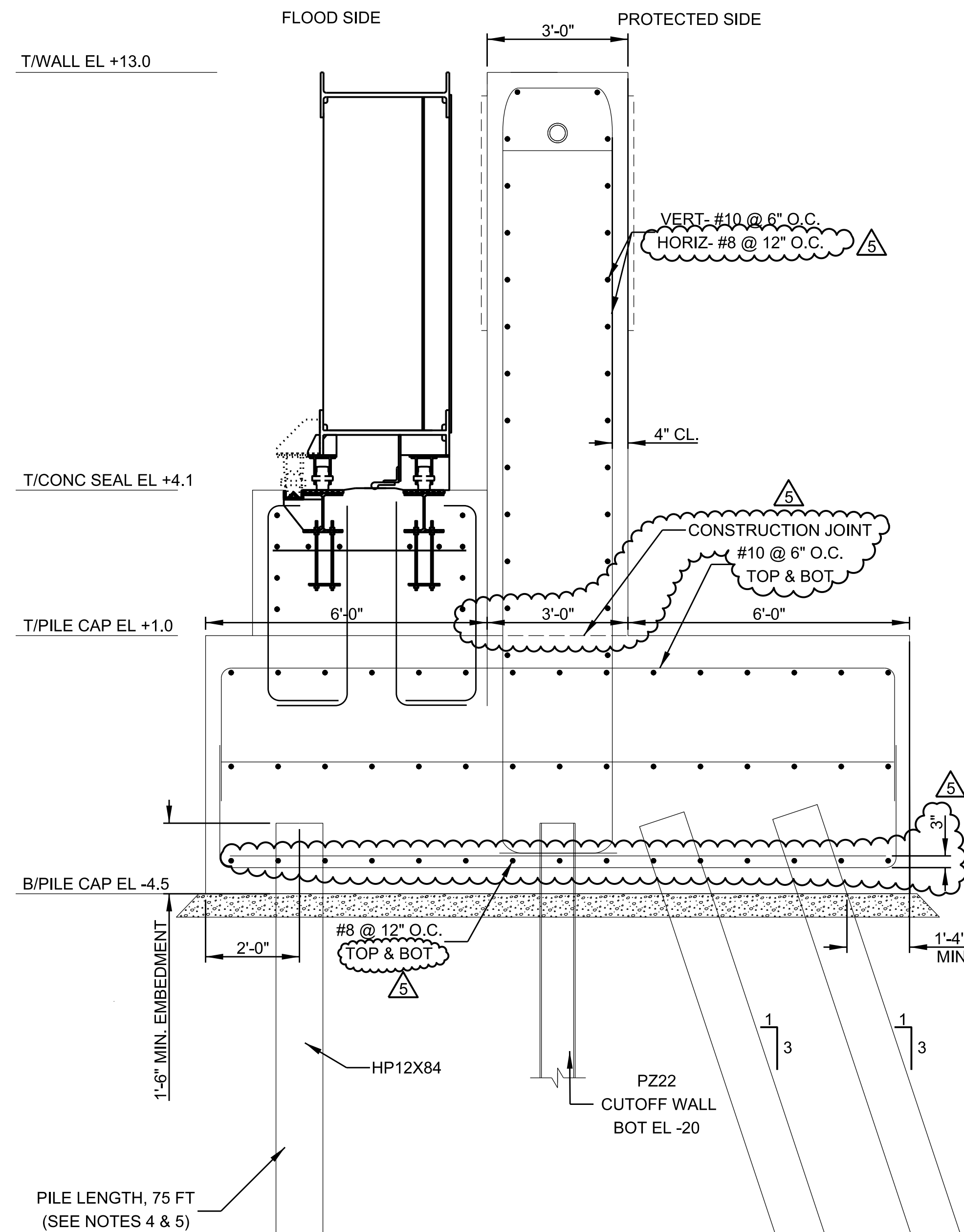
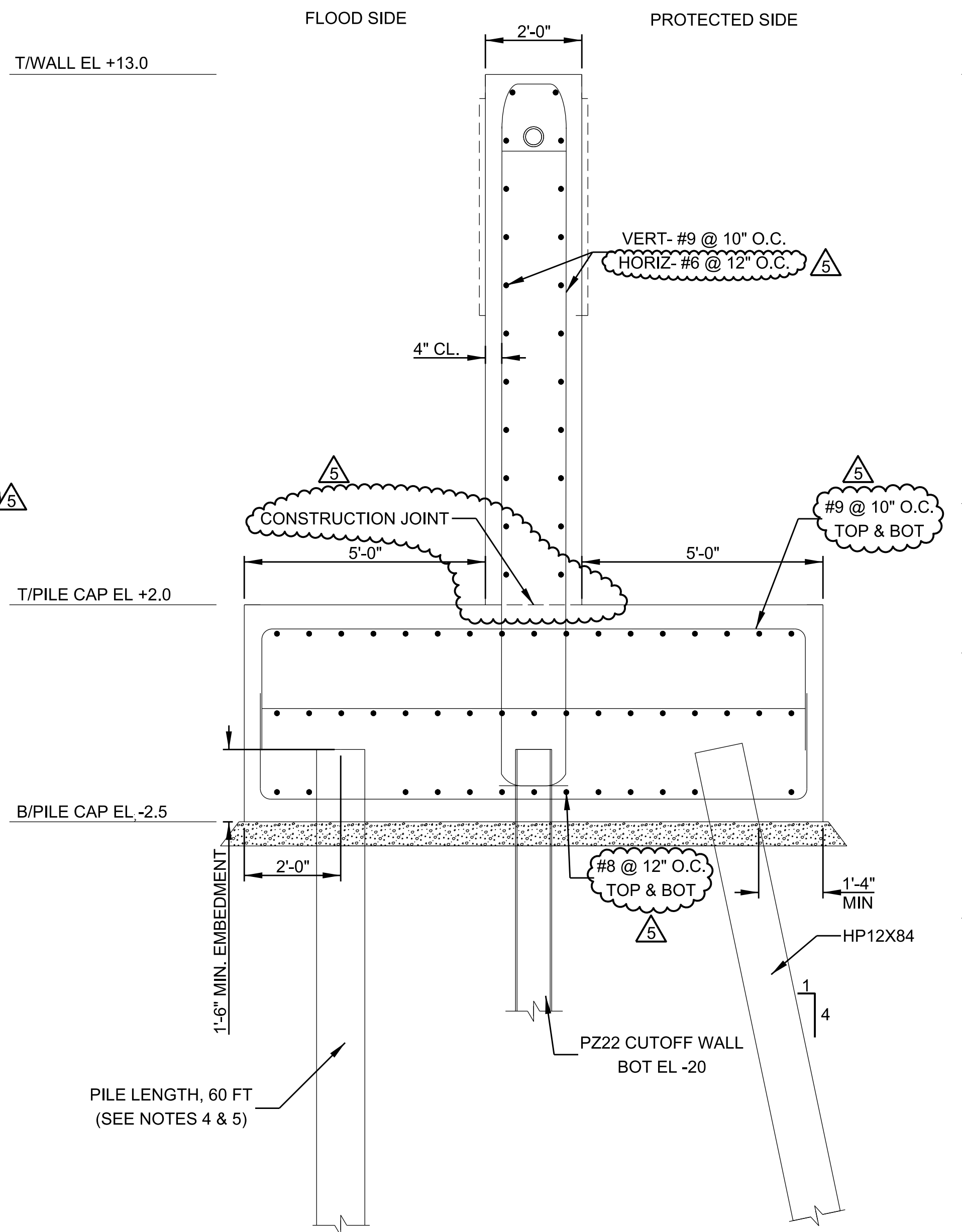
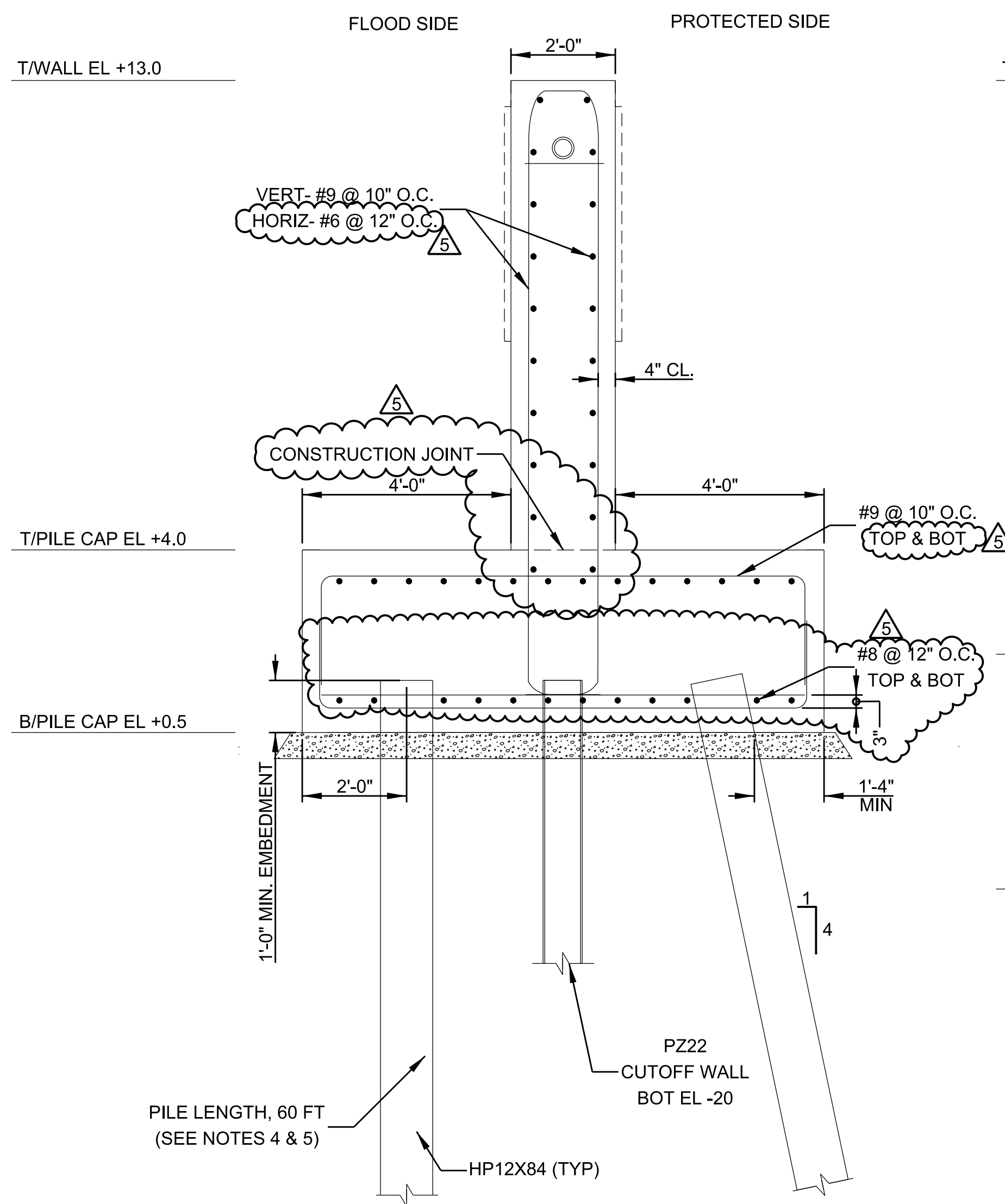
SHEET
IDENTIFICATION
S-507
SHEET **130** OF **148**

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NOTES:

- THE TYPICAL FLOODWALL SECTIONS FOR THE PILES ARE SHOWN ON SHEET S-307 TO S-310.
- THE TYPICAL FLOODWALL SECTIONS FOR THE CLOSURE GATES ARE SHOWN ON SHEET S-303 AND S-304.
- PILES LENGTH ARE NOT SHOWN TO SCALE.
- THE PILE LENGTHS ARE STATED FOR ESTIMATING PURPOSES ONLY. PILE LENGTHS SHALL BE BASED ON THE PILE LOAD TEST.
- BATTER PILES BOTTOM TIP ELEVATION SHALL MATCH THE VERTICAL PILE BOTTOM TIP ELEVATION.
- FLOODWALLS SHALL BE STAINED AND HAVE AN ANTI-GRAFFITI COATING.
- MINIMUM OF 6" CRUSH STONE BASE, SHOWN SCHEMATICALLY, OR MUD SLAB TO FACILITATE CONSTRUCTION AS PART OF CONTRACTOR'S MEANS AND METHODS.
- MAXIMUM 1" OFFSET ON BOTH SIDES OF H-PILES ALLOWED FOR REBARS PASSING THRU THE PILES.



US Army Corps
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New York District

DATE	DESCRIPTION	MARK	DATE	APPR
21 SEP 2017	STRIPPER REMOVED, NOTE CHANGED			
20 OCT 2017	PILE SLOPE ADDED, ESTIMATED LENGTH UPDATED			
19 JAN 2018	CONSTRUCTION JOINT ADDED & REBAR UPDATED			

DESIGNED BY: JAP	CHKD BY: JAN	SUBMITTED BY: JAN	DATE: 20170830	SOLICITATION NO.:	CONTRACT NO.:
U.S. ARMY CORPS OF ENGINEERS NEW YORK DISTRICT NEW YORK, NY					
				FILE NAME:	FILE NUMBER:
				SIZE:	
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HURRICANE & STORM DAMAGE REDUCTION
RARITAN BAY & SANDY HOOK BAY
PHASE II, CONTRACT 4
PORT MONMOUTH, NJ

TYPICAL FLOOD
TRANSITION DETAIL

SHEET
IDENTIFICATION
S-520
SHEET 143 OF 148

