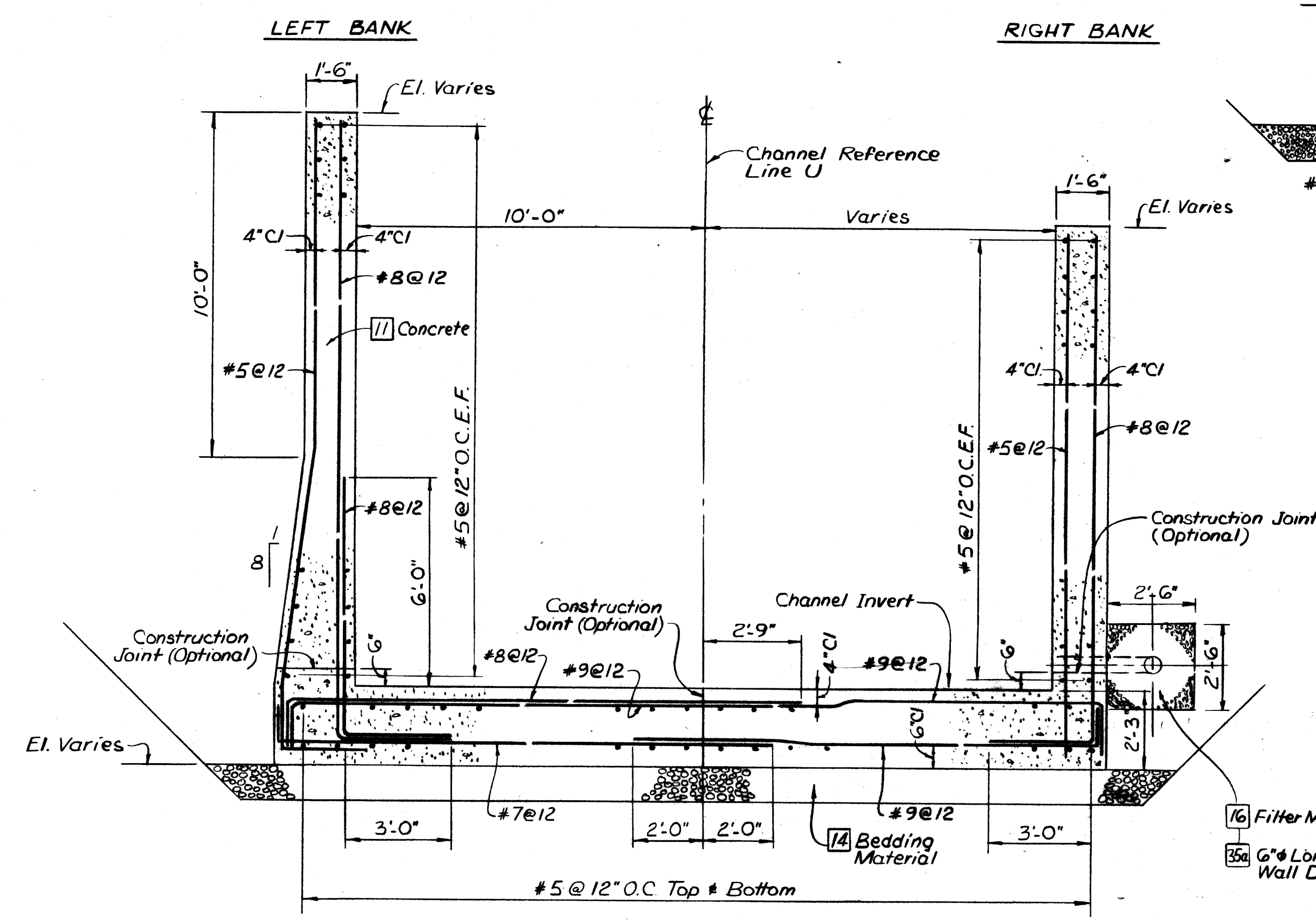
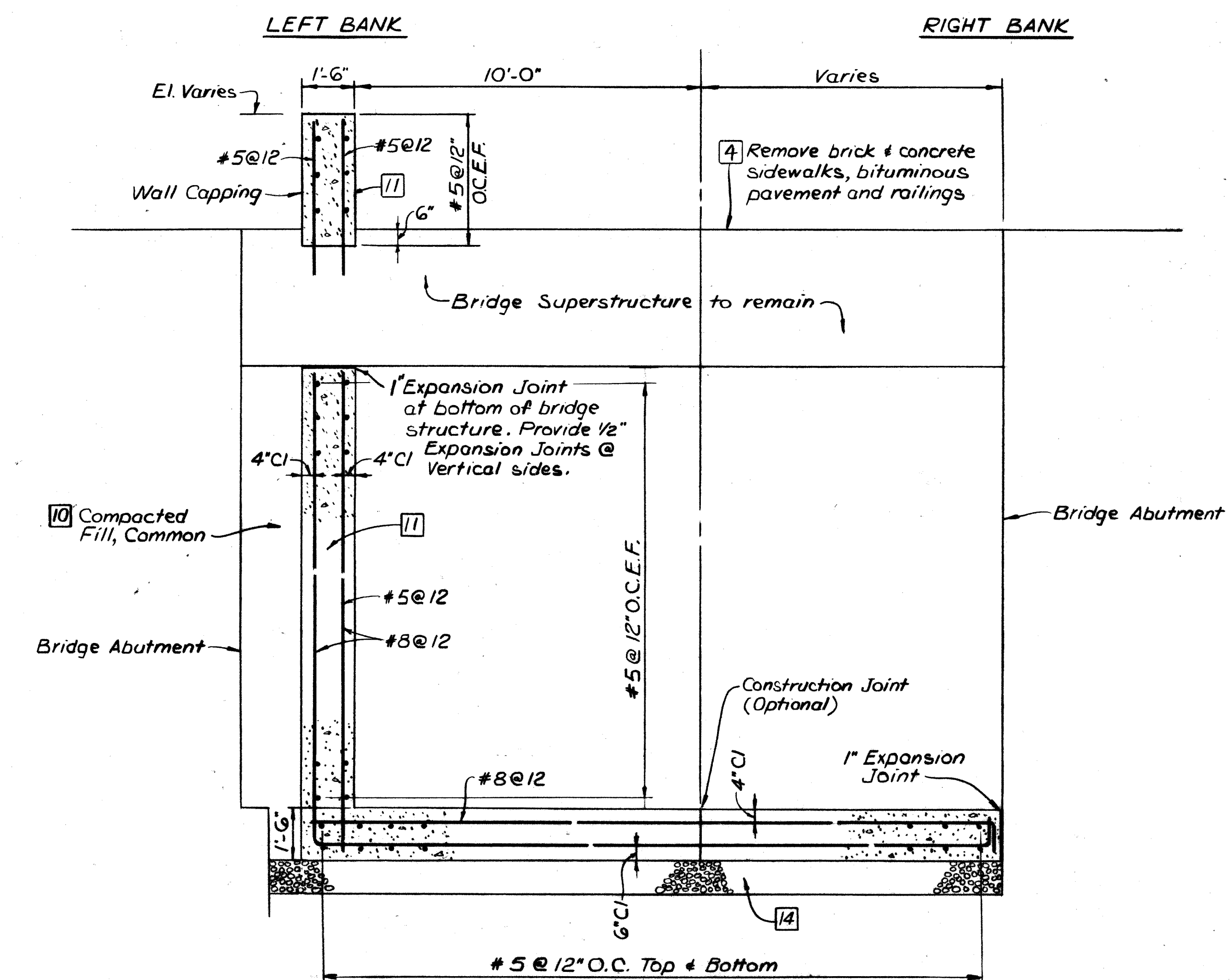
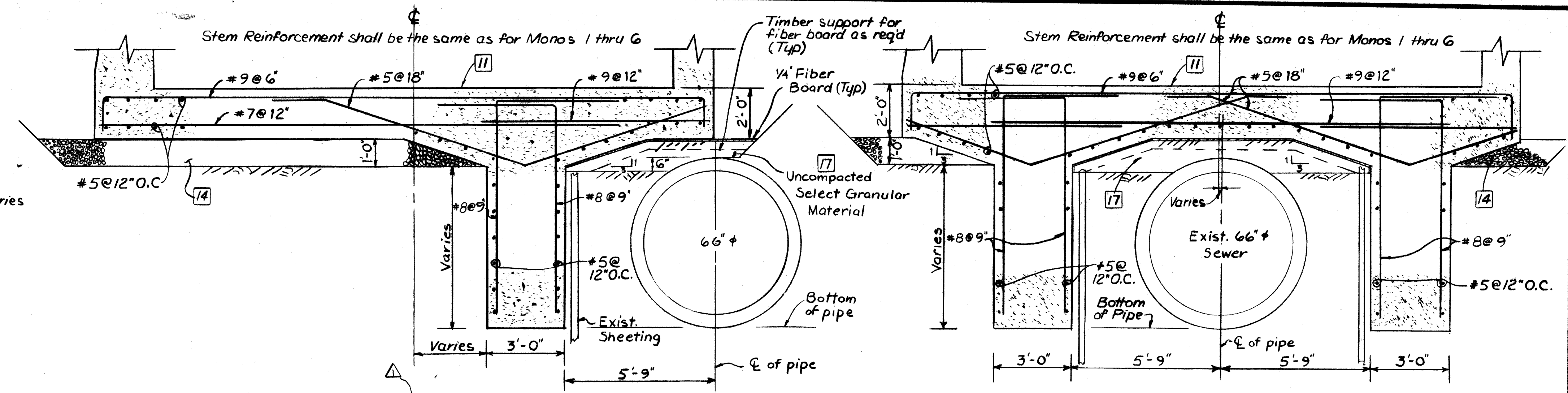




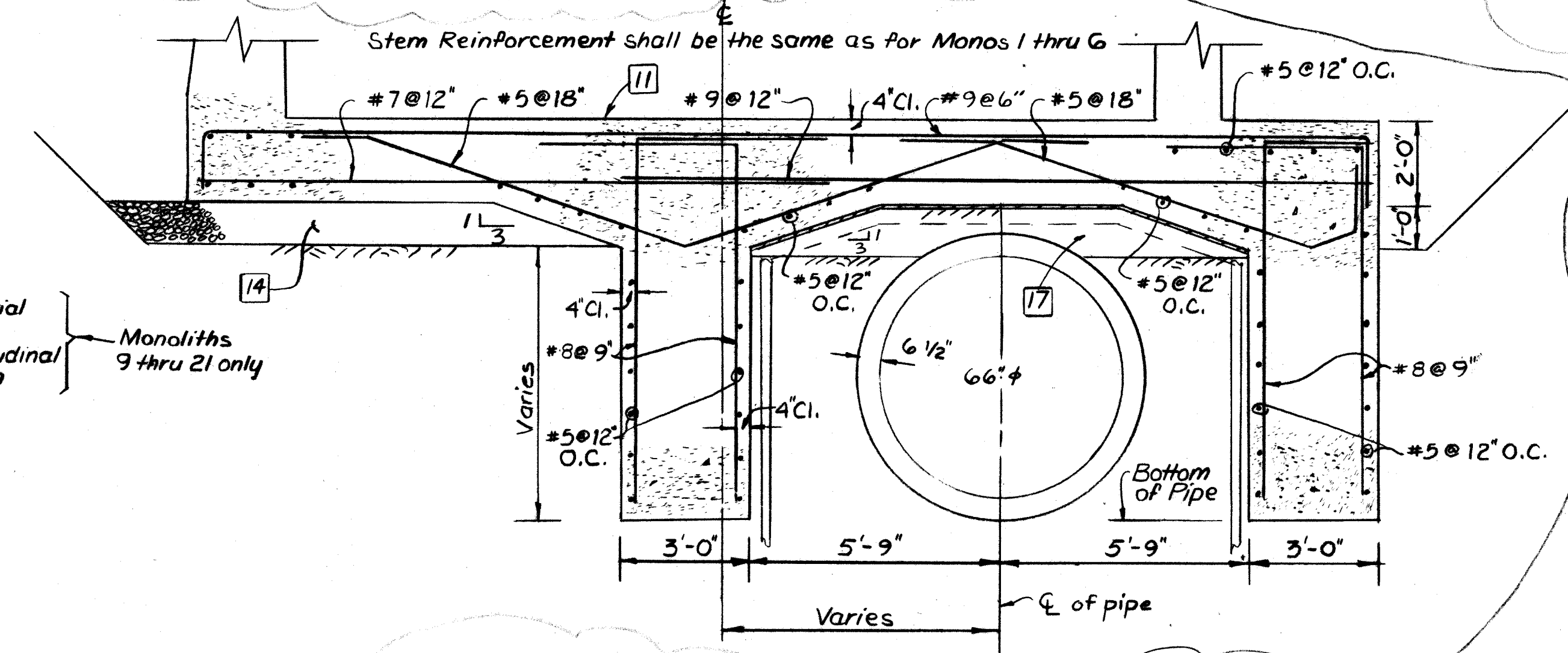
TYPICAL SECTION
MONOLITHS NO 1 THRU 6
NO 9 THRU 12
NO 20 AND 21



TYPICAL SECTION
MONOLITHS NO 7 & 8

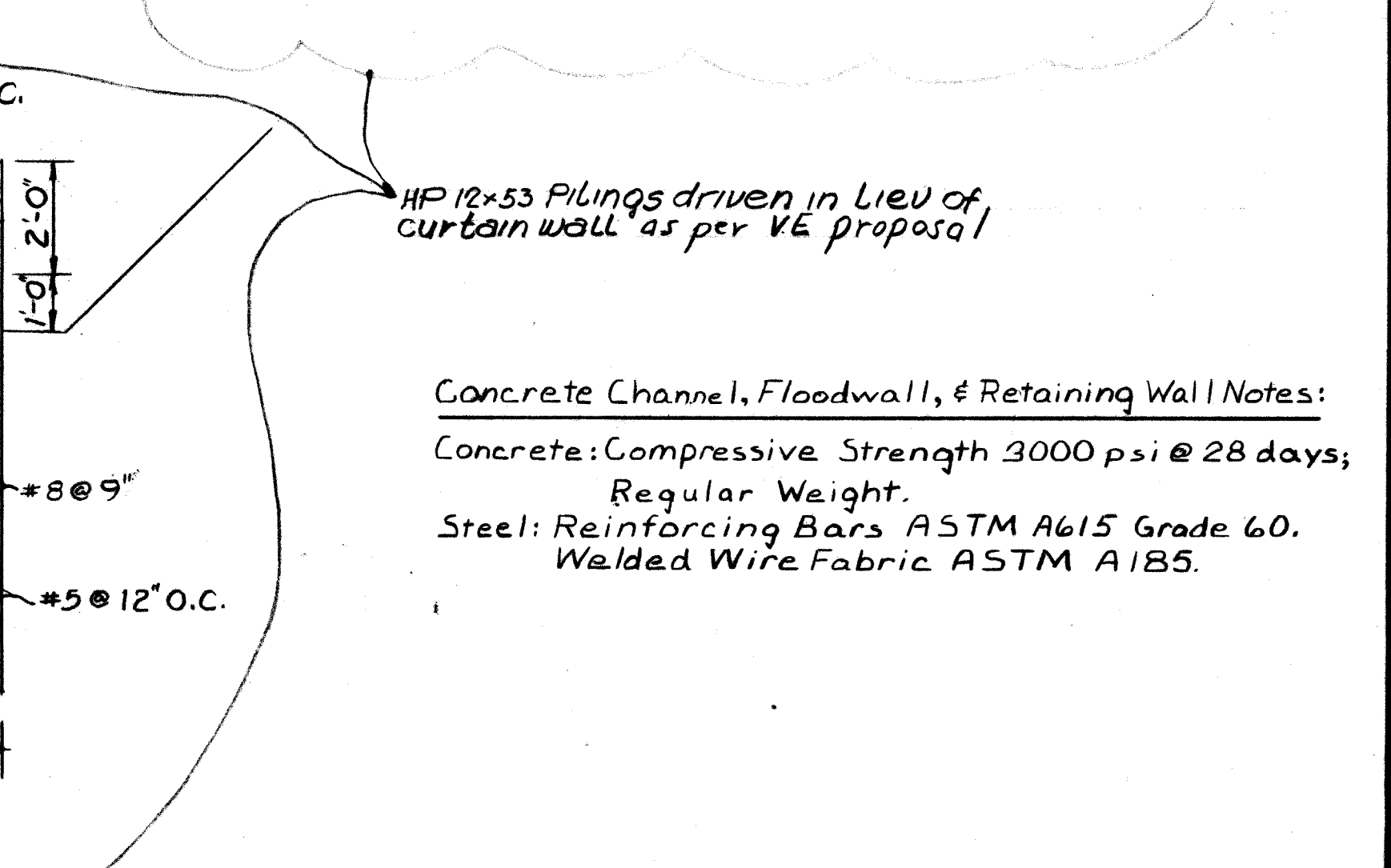


TYPICAL SECTION MONOLITHS NO 13 AND 14
19 OPPOSITE HAND

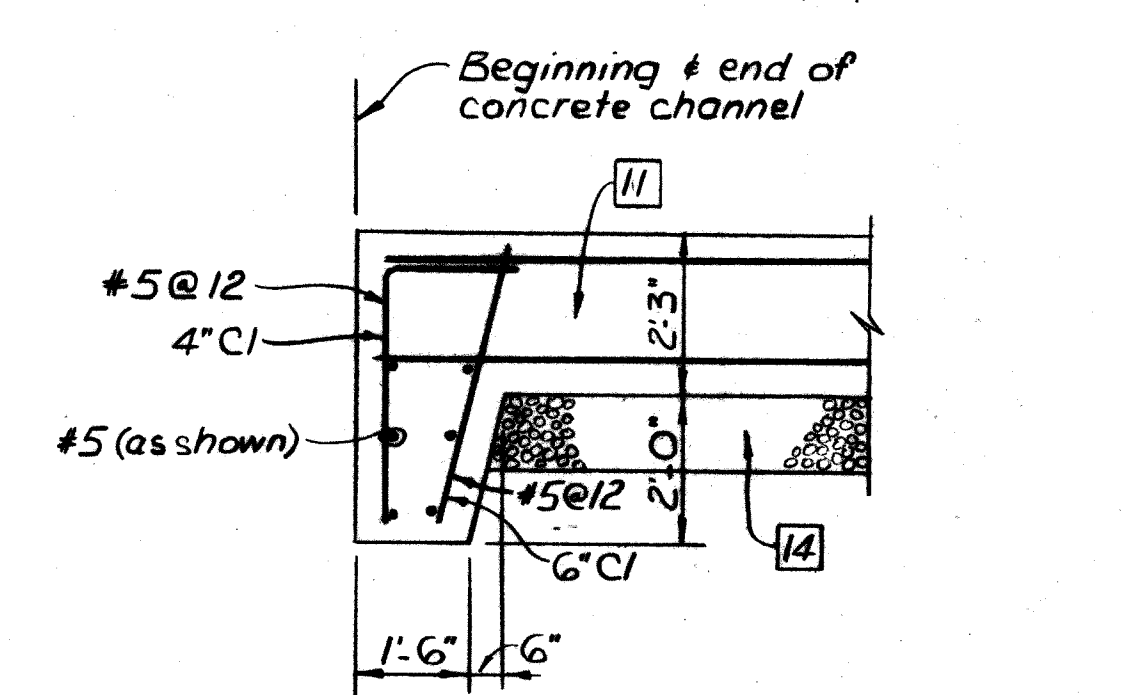


TYPICAL SECTION MONOLITHS NO 15 AND 16
18 OPPOSITE HAND

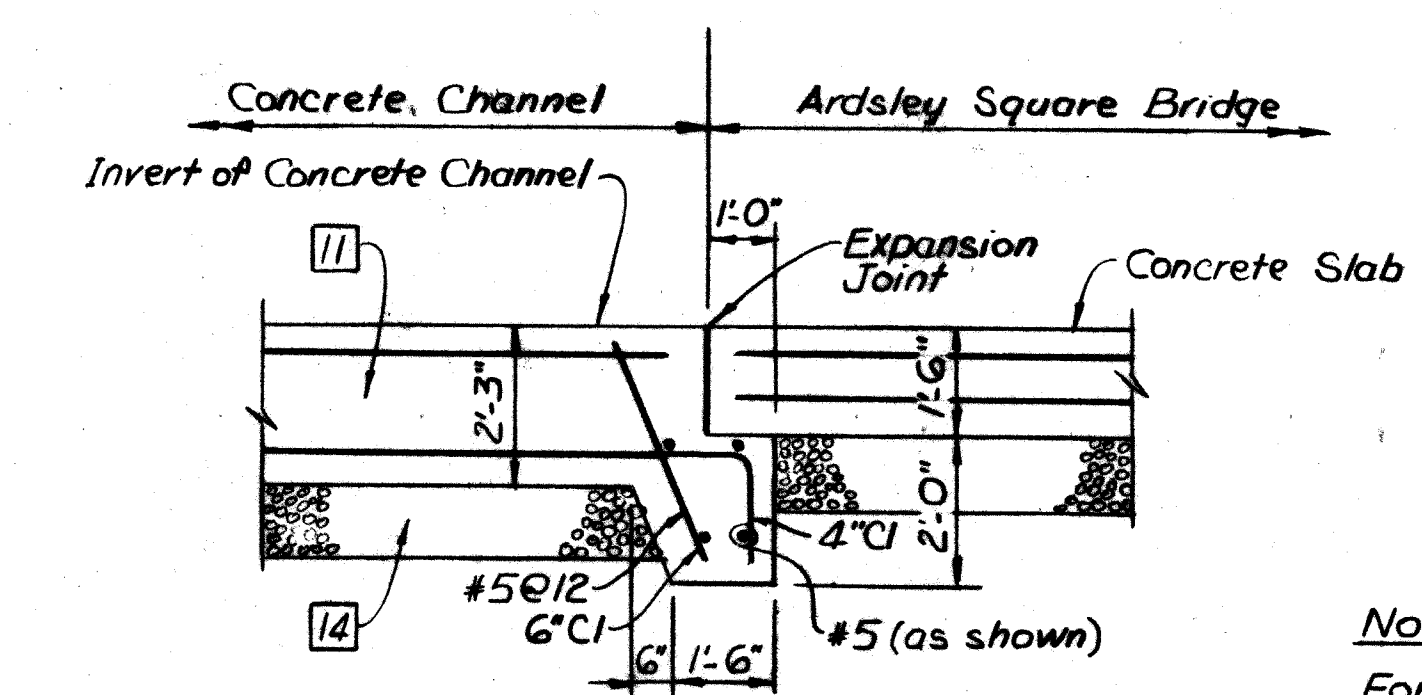
TYPICAL SECTION MONOLITH NO 17



Concrete Channel, Floodwall, & Retaining Wall Notes:
Concrete: Compressive Strength 3000 psi @ 28 days;
Regular Weight.
Steel: Reinforcing Bars ASTM A615 Grade 60.
Welded Wire Fabric ASTM A185.

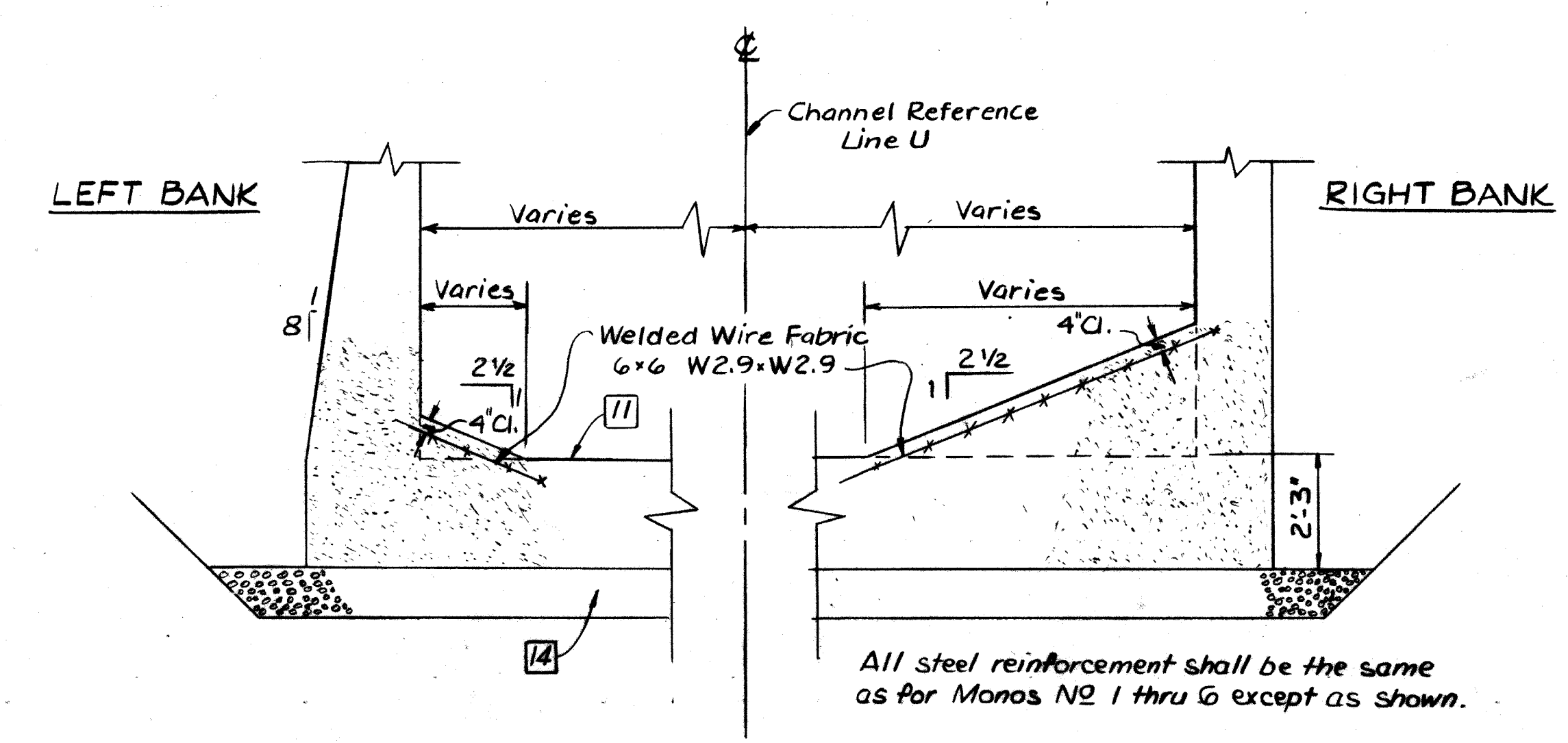


TYPICAL CONCRETE CHANNEL
END KEY DETAIL



SECTION AT JUNCTION WITH
CONCRETE CHANNEL AT THE
ARDSLEY SQUARE BRIDGE

Notes:
For General Notes, see Sheet No 1.
For Plan of Monoliths, see Sheets No 17 & 18.



TYPICAL SECTION MONOLITH NO 22

RECORD DRAWING
OF WORK-AS-BUILT

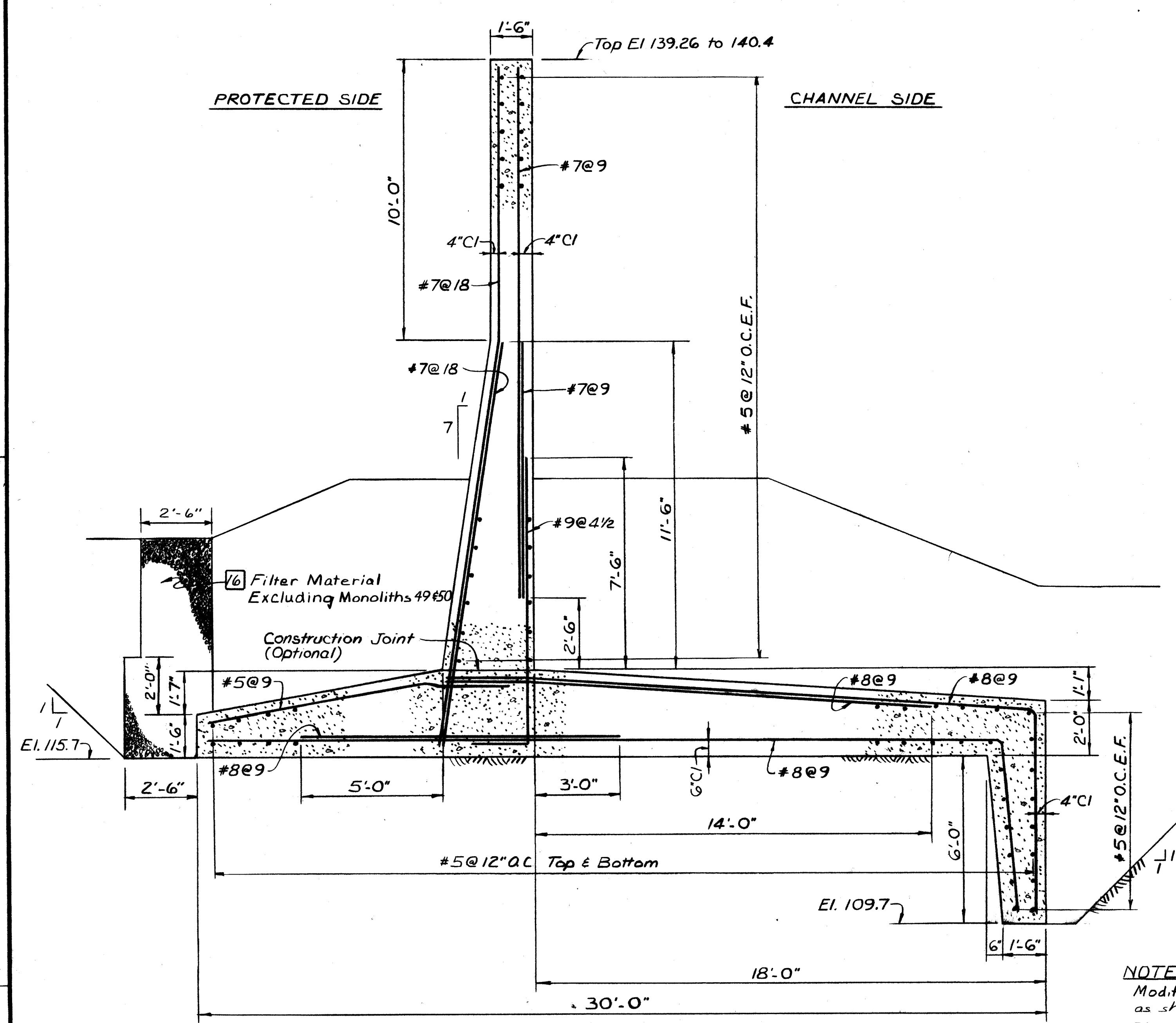
Scale: 3/8" = 1'-0"

Revision	Description	Date	Approved
1	Revised Typical section Monoliths-as built	3/24/90	A.P.

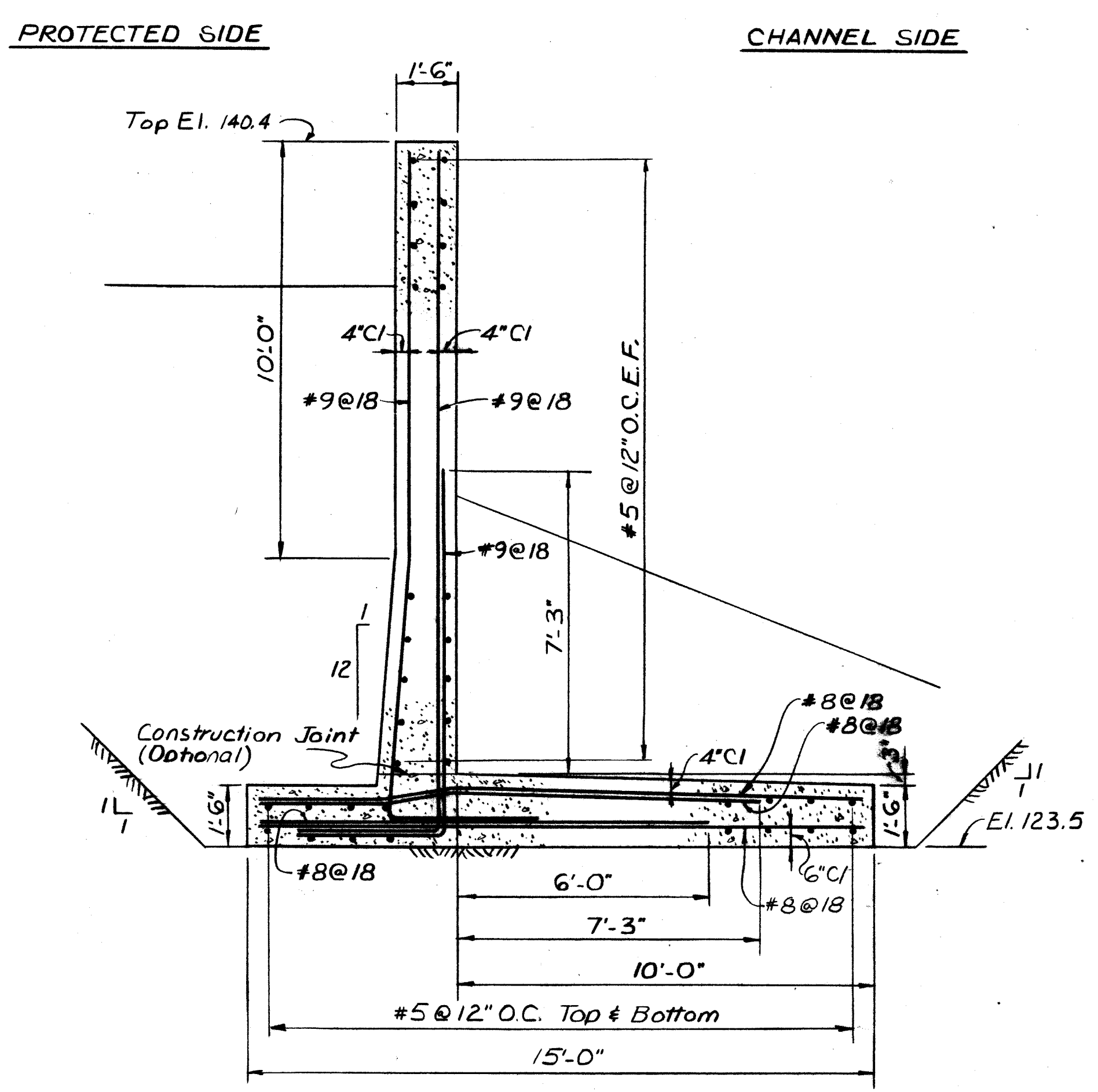
Designed by: J. L. Lamm	Reviewed by: S. H. Hing	Approved by: S. H. Hing	Concurred by: C. J. Lamm
Drawn by: J. L. Lamm	Checked by: S. H. Hing	Reviewed by: S. H. Hing	Concurred by: C. J. Lamm

U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS NEW YORK, NEW YORK	SAW MILL RIVER, NEW YORK ARDSLEY FLOOD CONTROL PROJECT CONCRETE CHANNEL WALL DETAILS
---	--

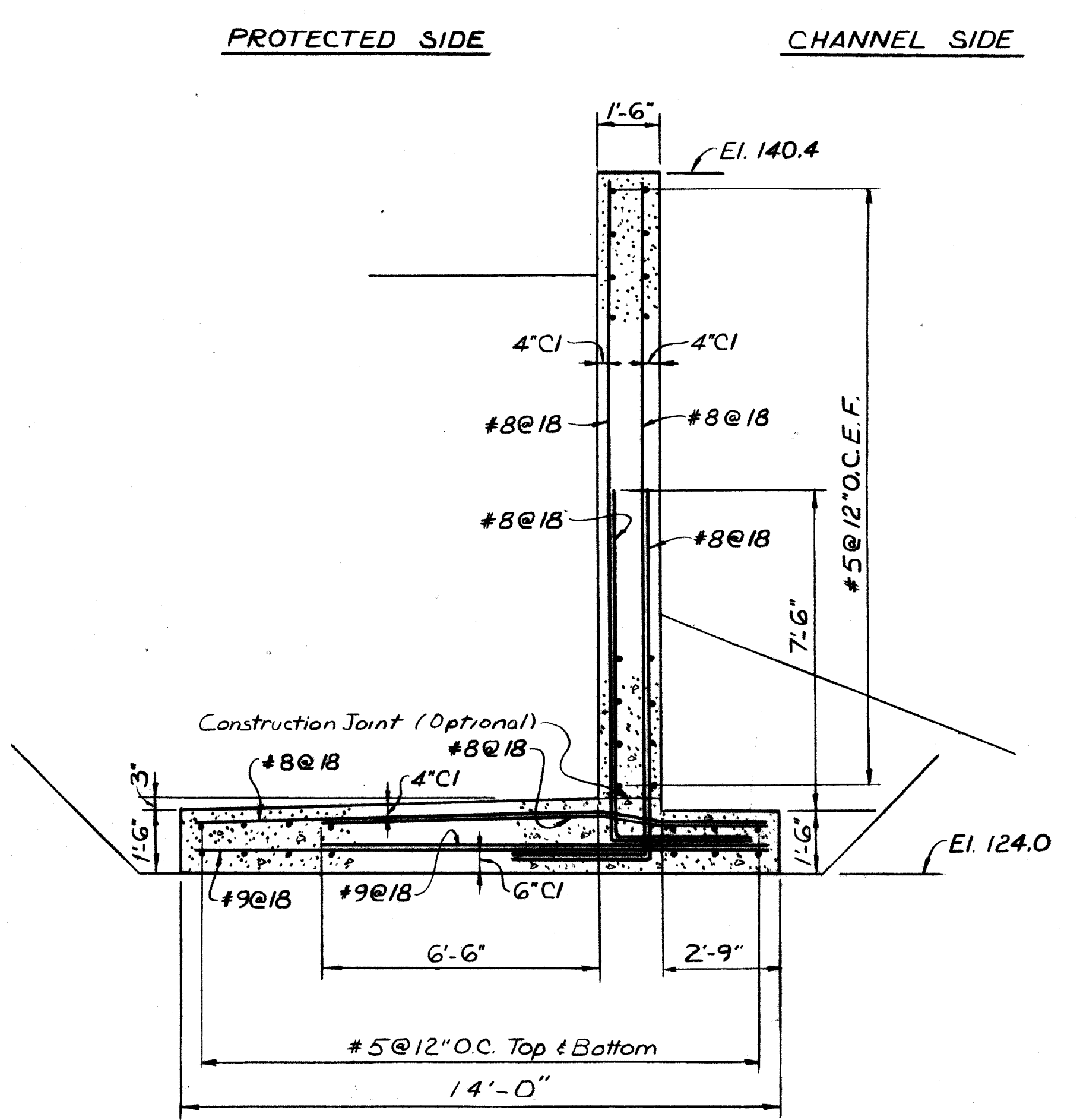
Sheet reference number: CC-ARD-421	Date: 20 JULY 1987	Scale: AS SHOWN	Sheet 21 of 44
---------------------------------------	--------------------	-----------------	----------------



MONOLITHS NO 38 THRU 41 AND 43 THRU 50

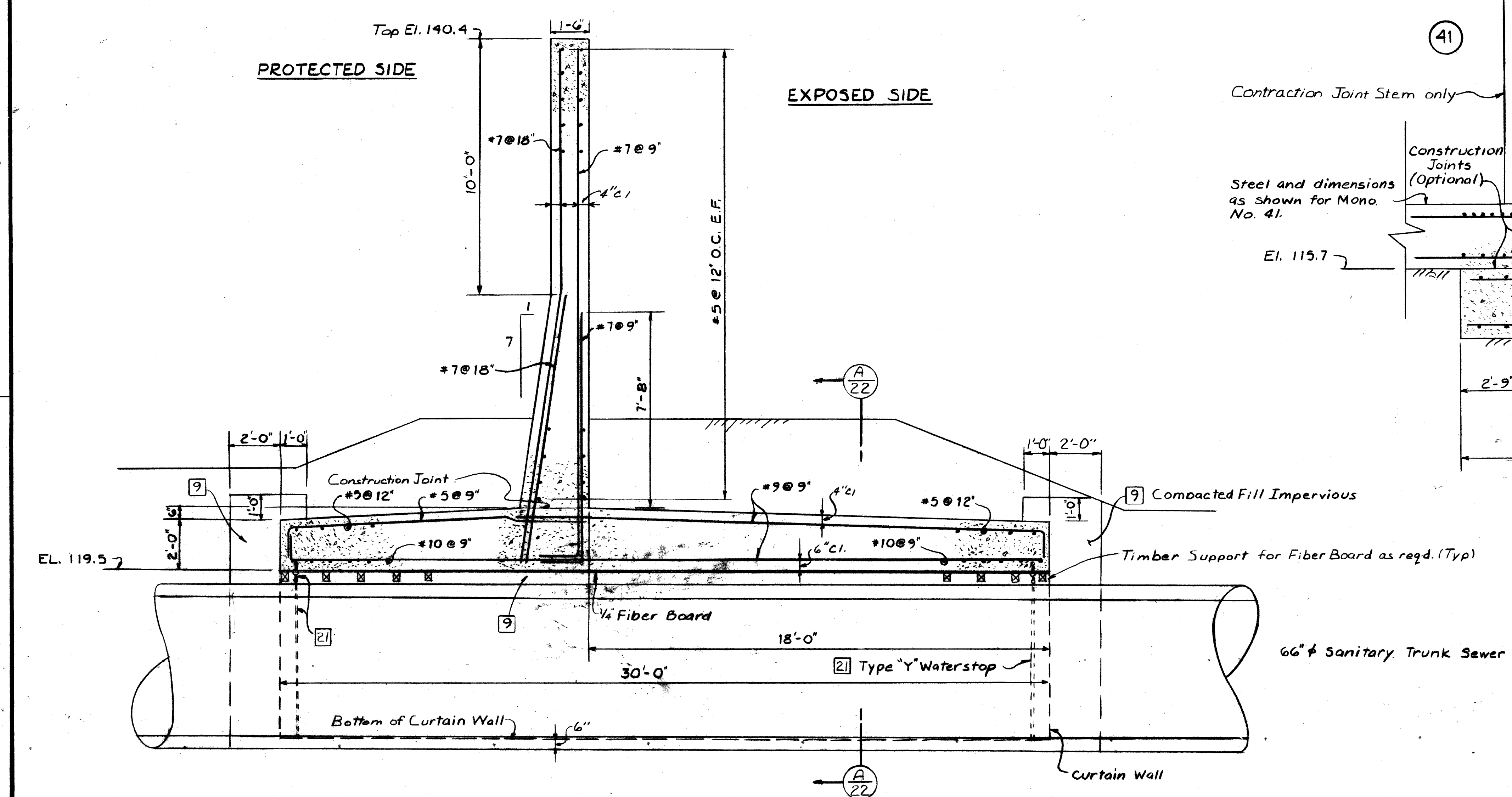


MONOLITHS NO 53 THRU 57

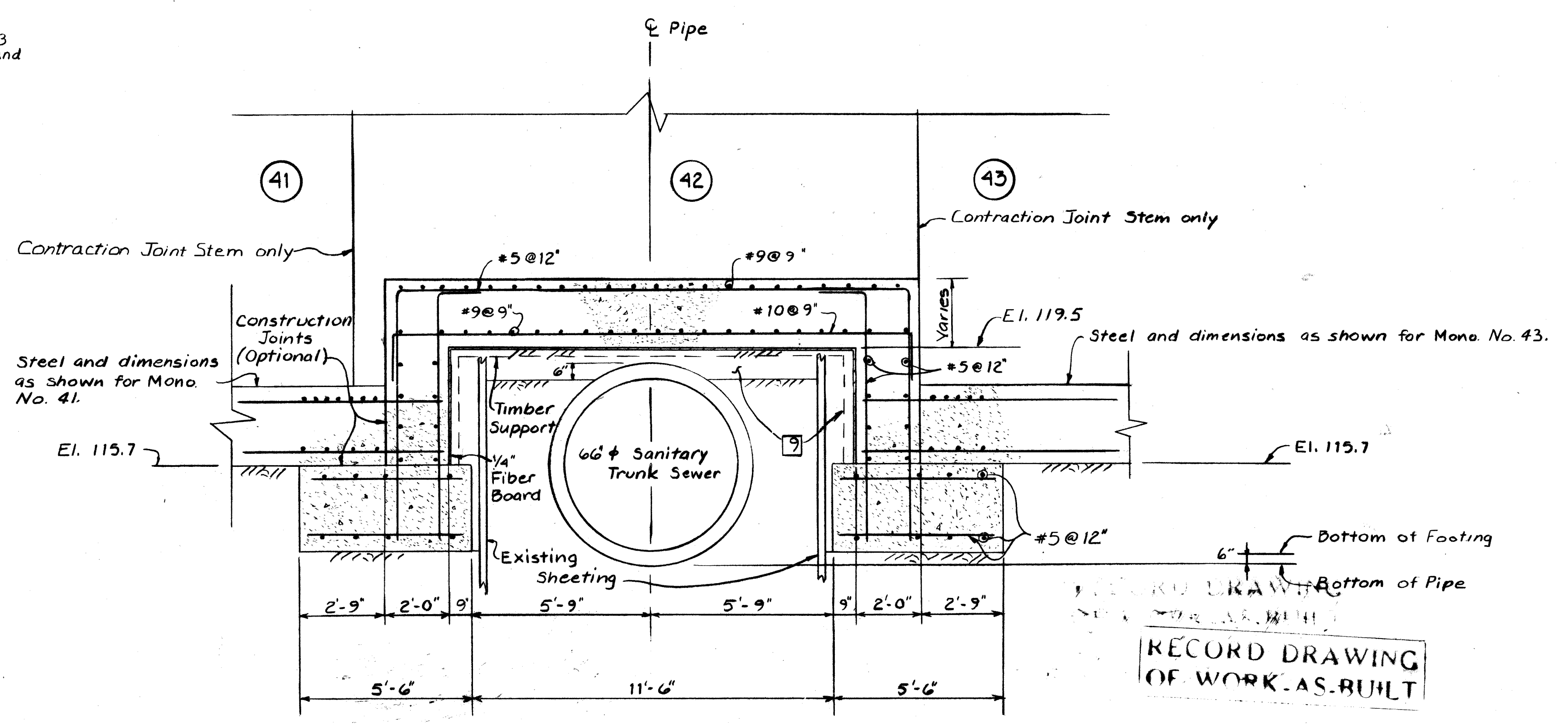


MONOLITH NO 58

NOTE:
Modify Monoliths No. 41 & 43
as shown on Section A and
Plan Sheet No. 19.

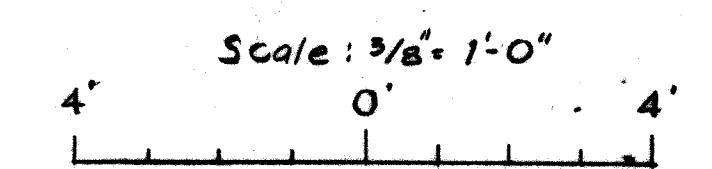


MONOLITH NO 42



SECTION A-A

NOTES:
For General Notes, see Sheet No. 1.
For Plan of Monoliths, see Sheet No. 19 & 20.
For Concrete Channel, Floodwall, & Retaining Wall
Notes, see Sheet No. 21.



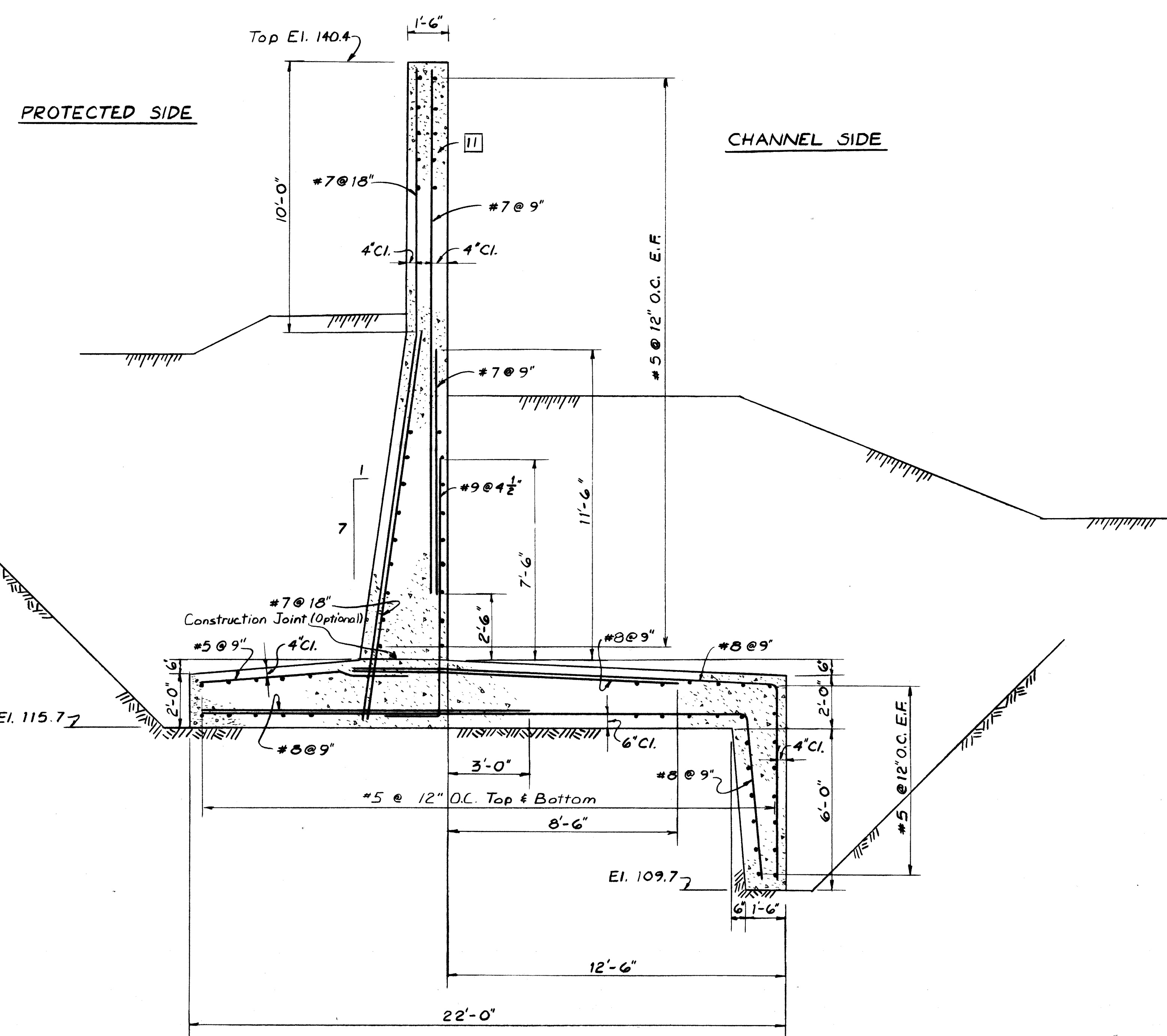
As built - No change		30 Jul 90	D.S.
Revision	Description	Date	Approved
U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS NEW YORK, NEW YORK			
SAW MILL RIVER, NEW YORK ARDSLEY FLOOD CONTROL PROJECT FLOODWALL DETAILS NO. 1			
Designed by: G. Emma	NEW YORK		
Drawn by: E.J.M.	Reviewed by: S. H. H. H.		
Checked by: S. H. H. H.	Approved by: S. H. H. H.		
Reviewed by: S. H. H. H.	Approved by: S. H. H. H.	Sheet reference number: CC-ARD-422	Date: 20 JULY 1987 Scale: AS SHOWN Sheet 22 of 44

D

C

B

A

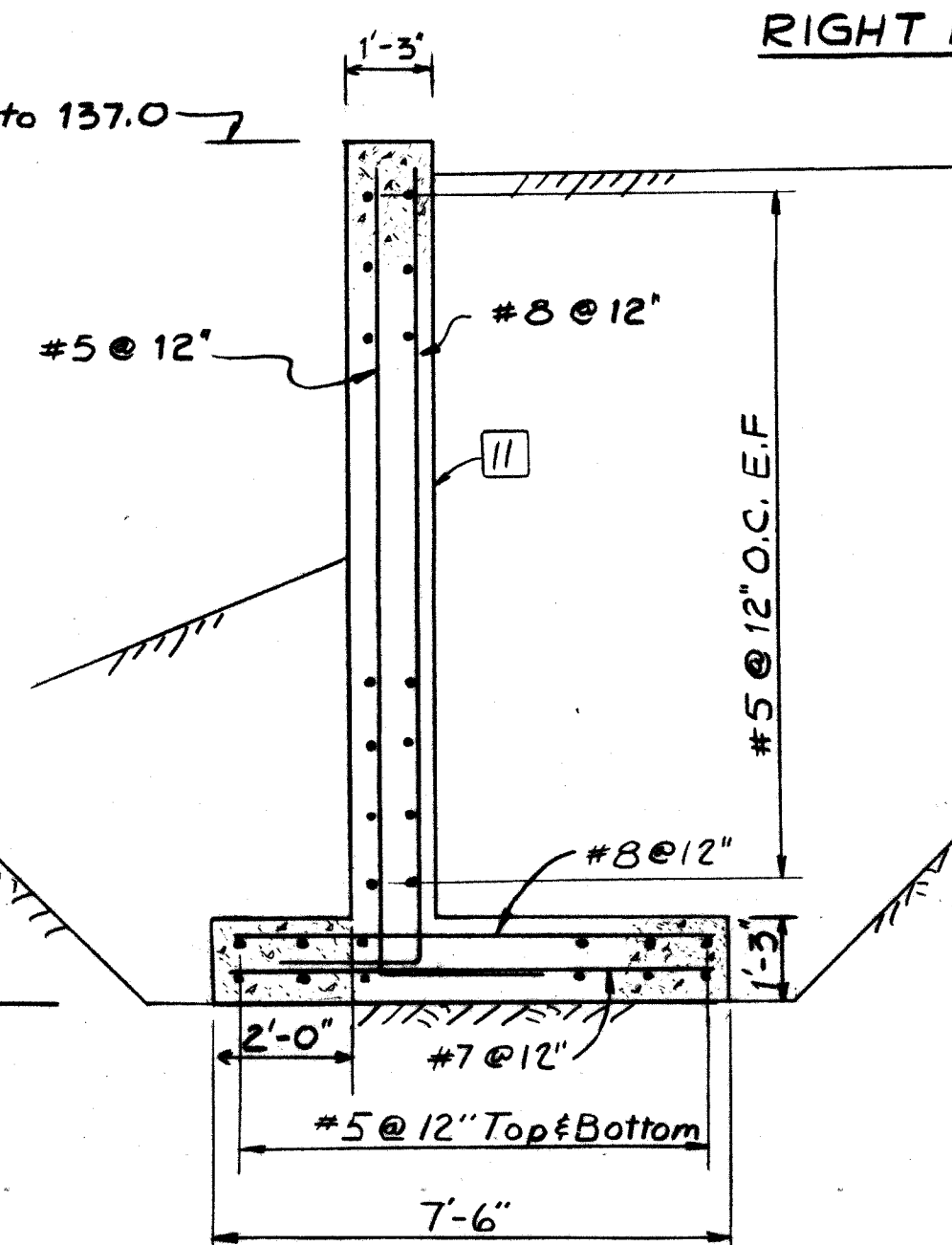


MONOLITH No 51

CHANNEL SIDE

RIGHT BANK

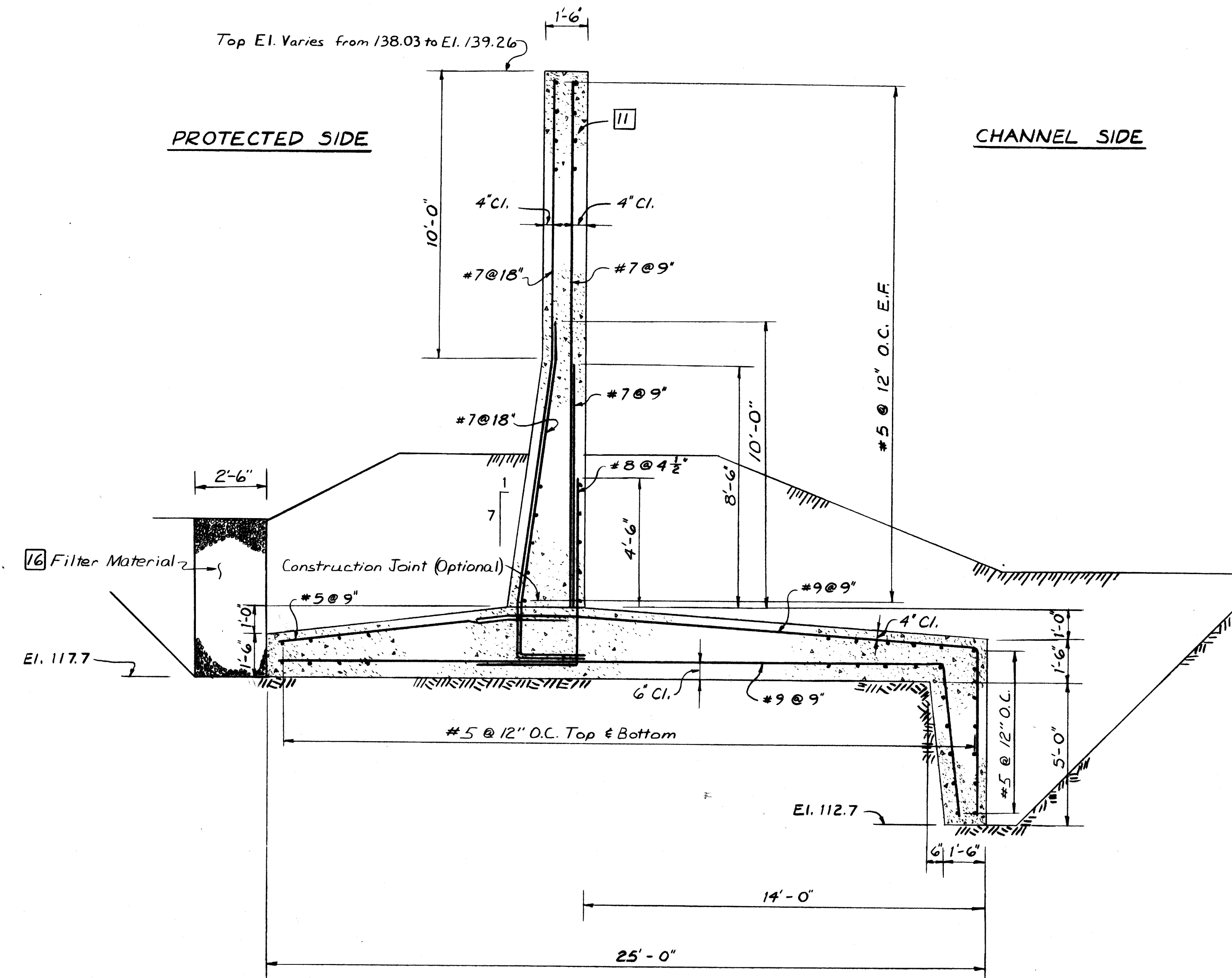
El. Varies 133.7 to 137.0

El. 121.8 For Mono. No 61
El. 127.2 For Mono. No 62

MONOLITH No 61 AND 62

PROTECTED SIDE

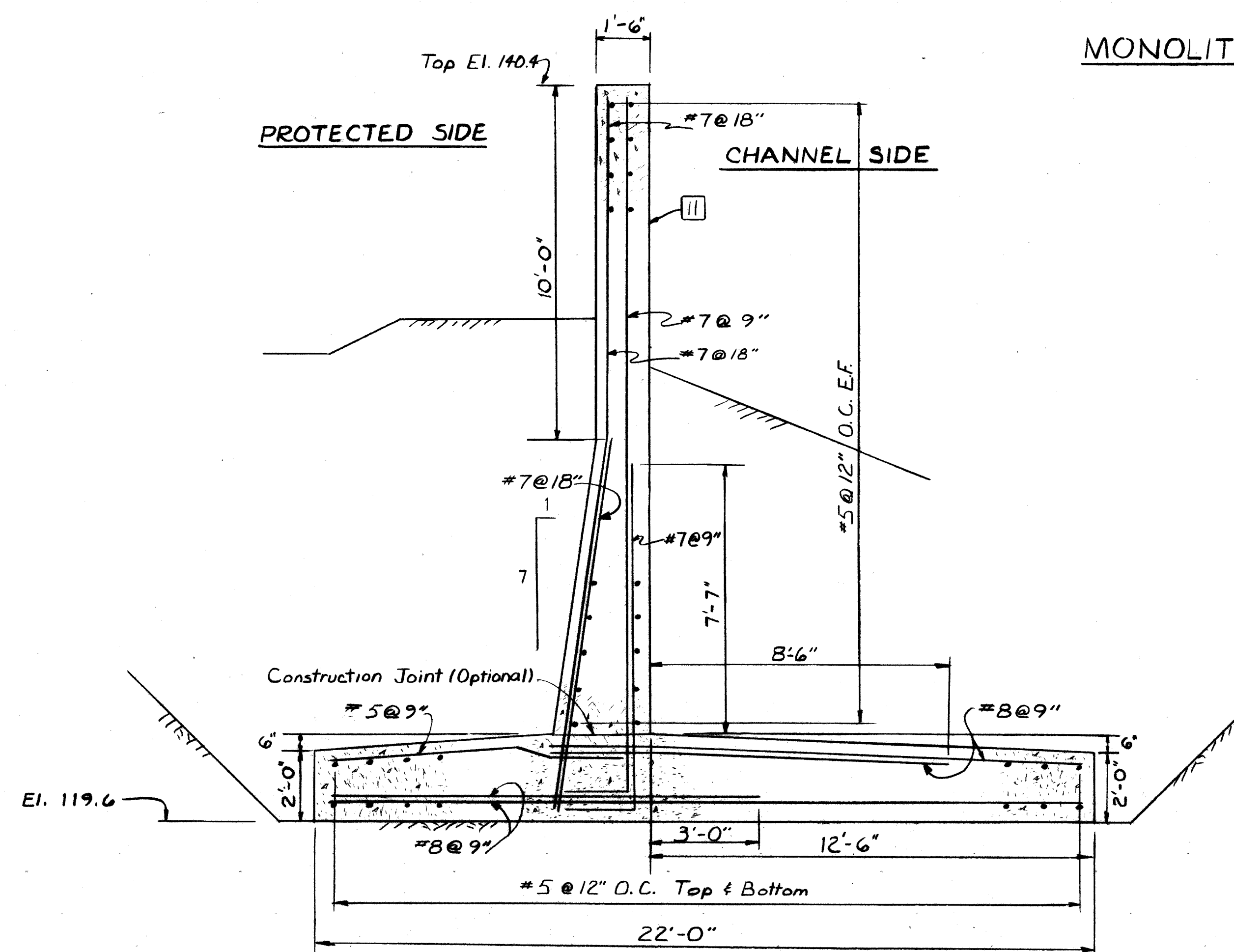
CHANNEL SIDE



MONOLITH No 23 THRU 37

PROTECTED SIDE

CHANNEL SIDE



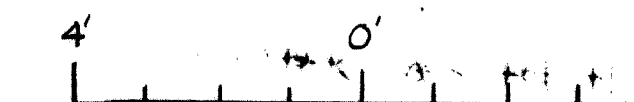
MONOLITH No 52

NOTES:

For General Notes, see Sheet No. 1.
For Plan of Monoliths, see Sheets No. 18 & 20.
For Concrete Channel, Floodwall, & Retaining Wall
Notes, see Sheet No. 21.

RECORD DRAWING
OF WORK AS BUILT

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



Revision	As built - No change	Date	3/10/90	Approved	D.S.
U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS NEW YORK, NEW YORK					
Designed by: J. Demma		SAW MILL RIVER, NEW YORK			
Drawn by: K.C.		ARDSLEY FLOOD CONTROL PROJECT			
Checked by: S. Hong		FLOODWALL DETAILS NO. 2			
Reviewed by: A. Buxton		Approval Recommended: W. K. Falcetta		Sheet reference number: CC-ARD-422	Date: 20 JULY 1987
Concurred: C. Conner		Approved by: W. A. H. H.		Scale: AS SHOWN	Sheet 23 of 44

D

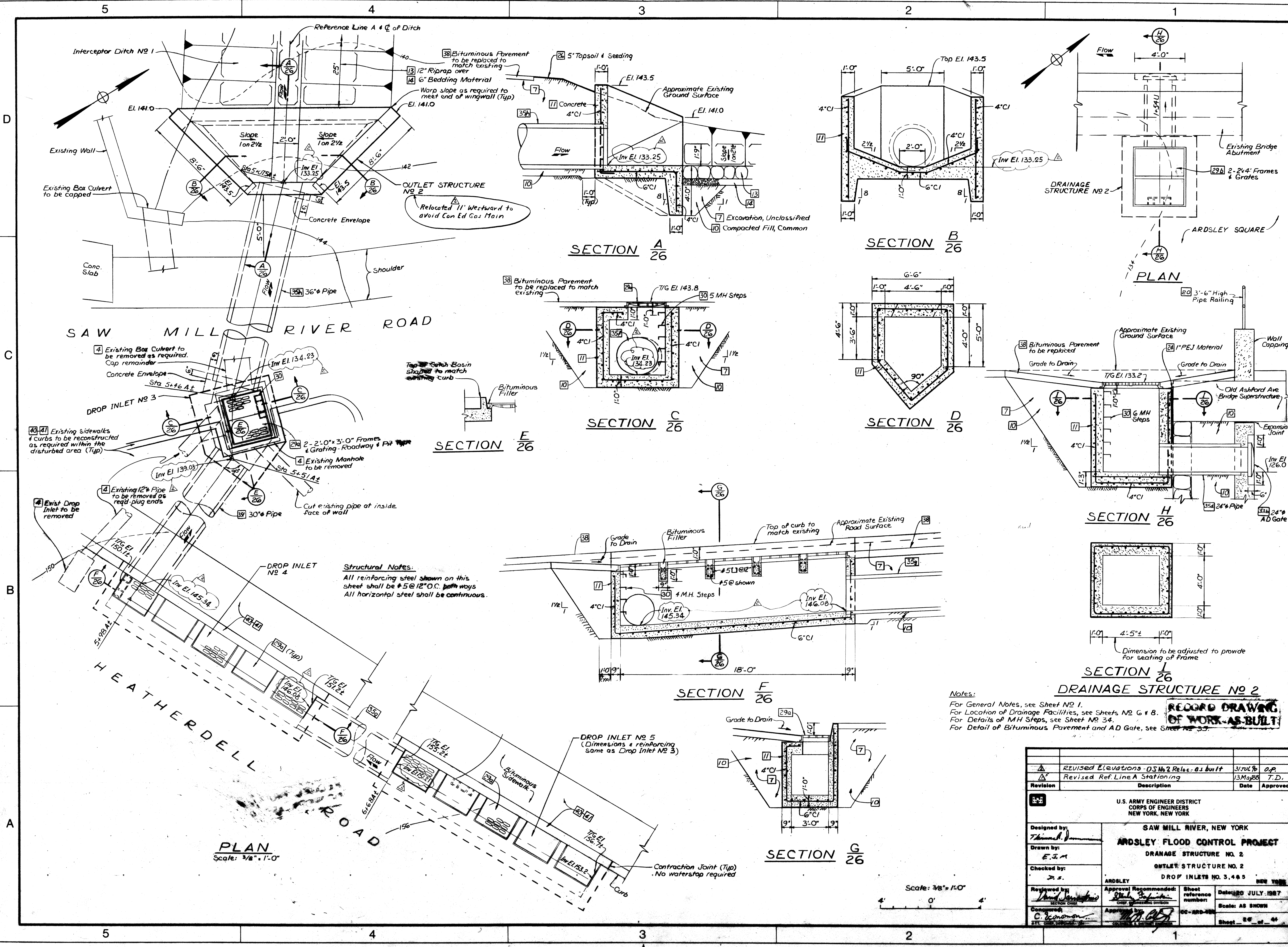
C

B

A

[illegible]



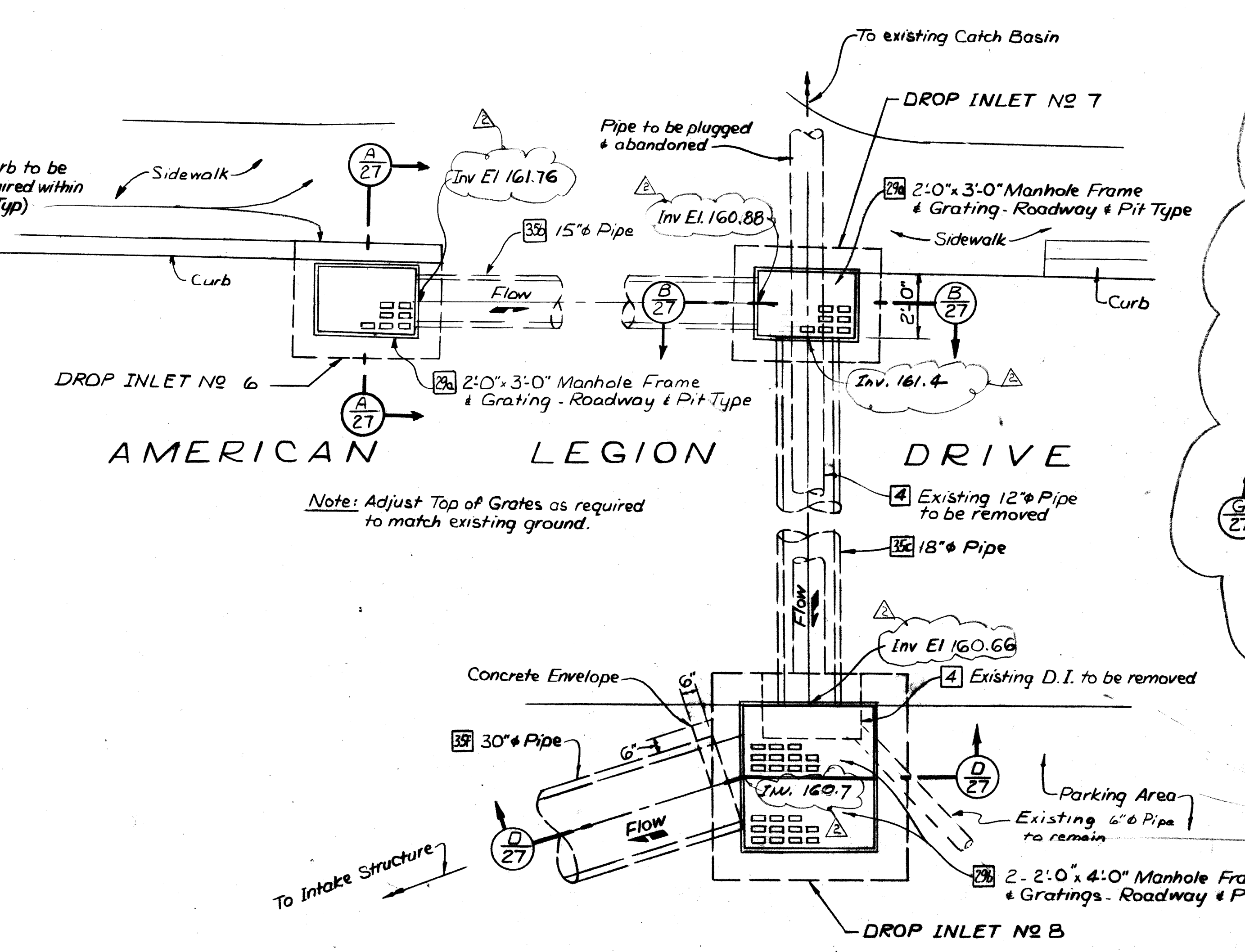


Structural Notes:
All reinforcing steel shown on this sheet shall be #5 @ 12" O.C. in ways.
All horizontal steel shall be continuous.

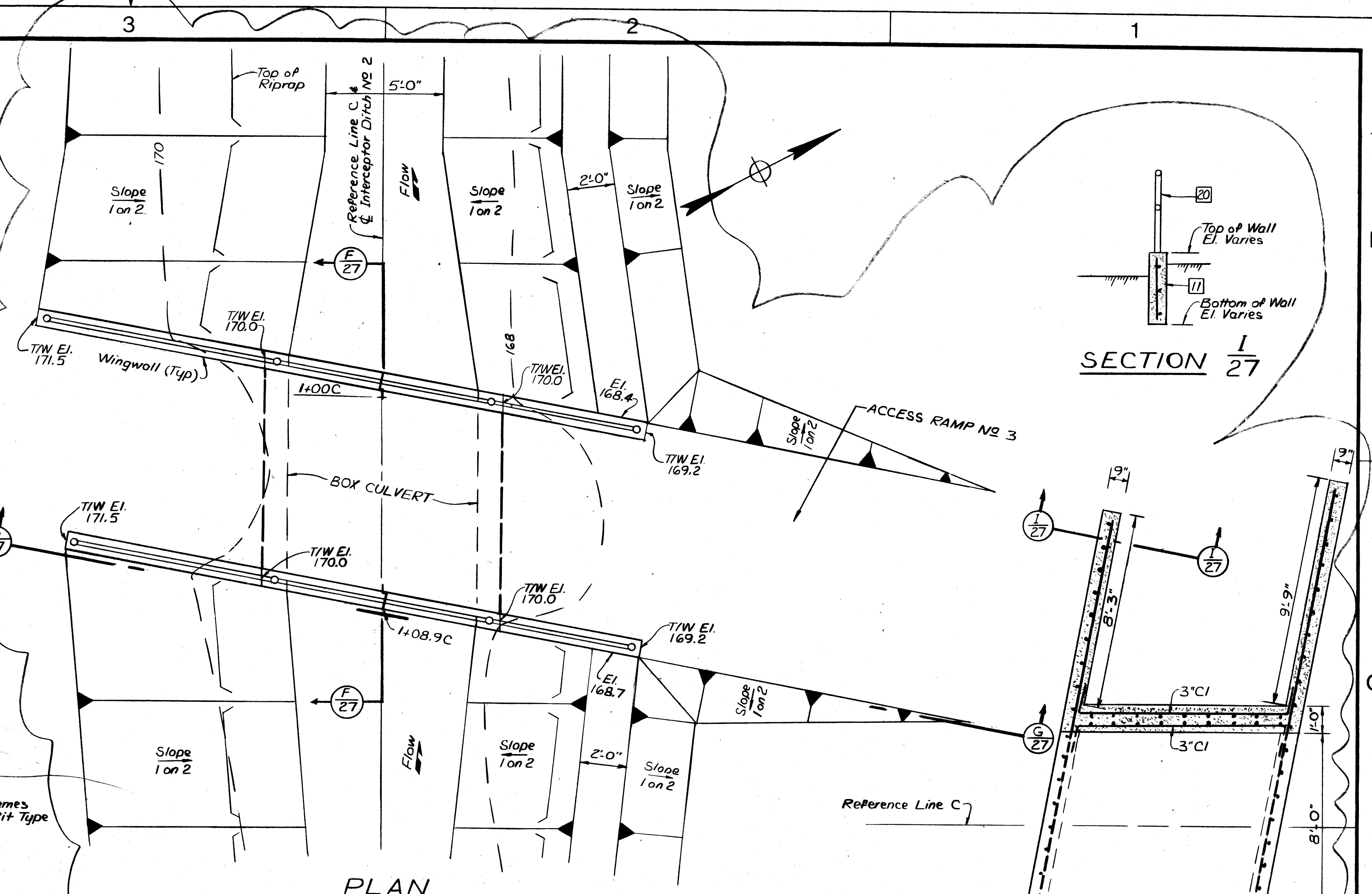
Notes:
For General Notes, see Sheet No. 1.
For Location of Drainage Facilities, see Sheets No. 2 & 8.
For Details of MH Steps, see Sheet No. 34.
For Detail of Bituminous Pavement and AD Gate, see Sheet No. 33.

REVISION			
1	REVISED ELEVATIONS - DS No. 2 Reloc. as built	3/7/06	A.P.
2	REVISED REF. LINE A STATIONING	13/MAY/88	T.D.
Revision Description Date Approved			
U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS NEW YORK, NEW YORK			
SAW MILL RIVER, NEW YORK			
ARDSLEY FLOOD CONTROL PROJECT			
DRAINAGE STRUCTURE NO. 2			
OUTLET STRUCTURE NO. 2			
DROP INLETS NO. 3, 4 & 5			
Designed by:	Drawn by:	Checked by:	Reviewed by:
Thomson, J.	E.J.M.	Z.S.	David S. [Signature]
Approved by:	Approved by:	Sheet reference number:	Date: 20 JULY 1987
C. [Signature]	[Signature]	20-ARD-25	Scale: AS SHOWN
Sheet 26 of 44			

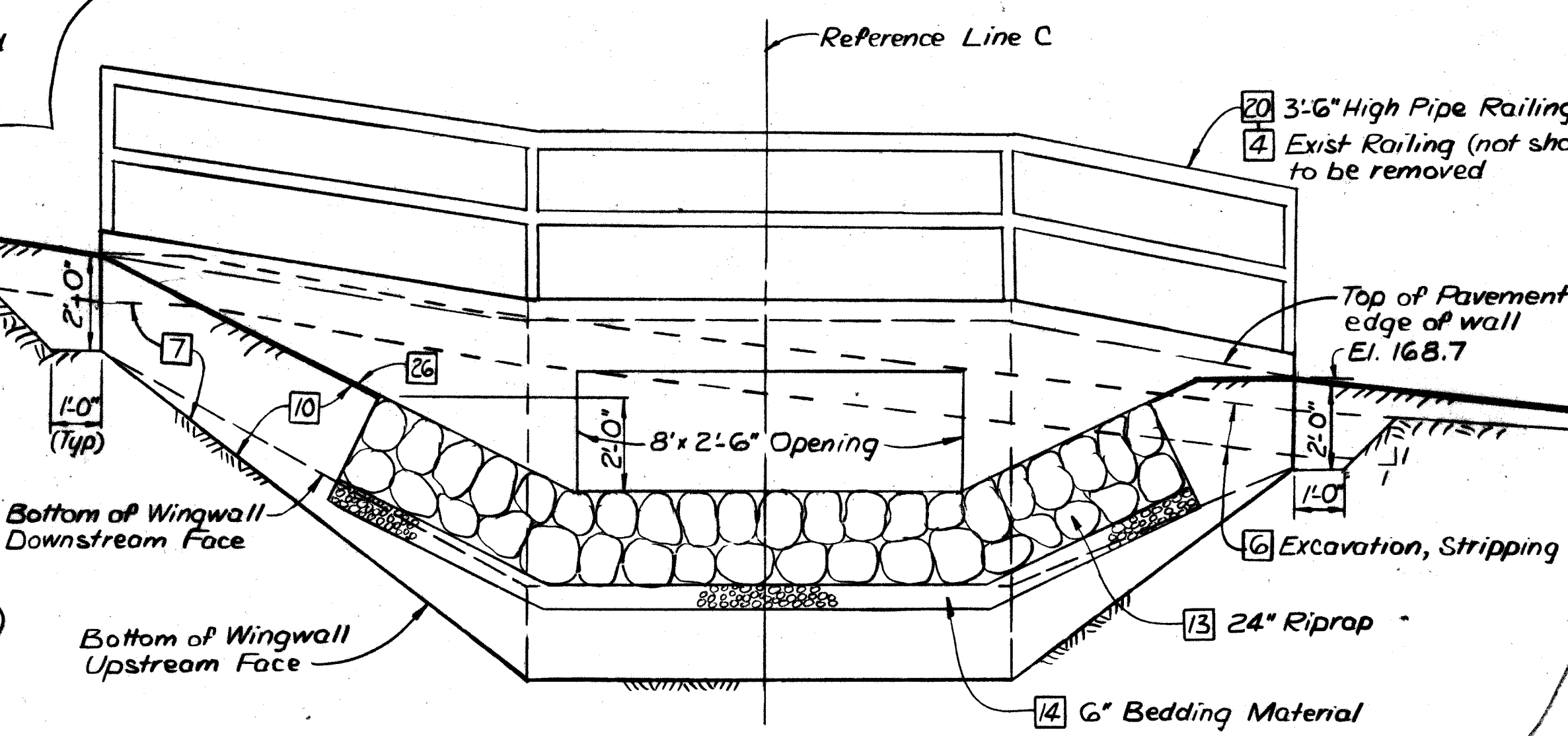
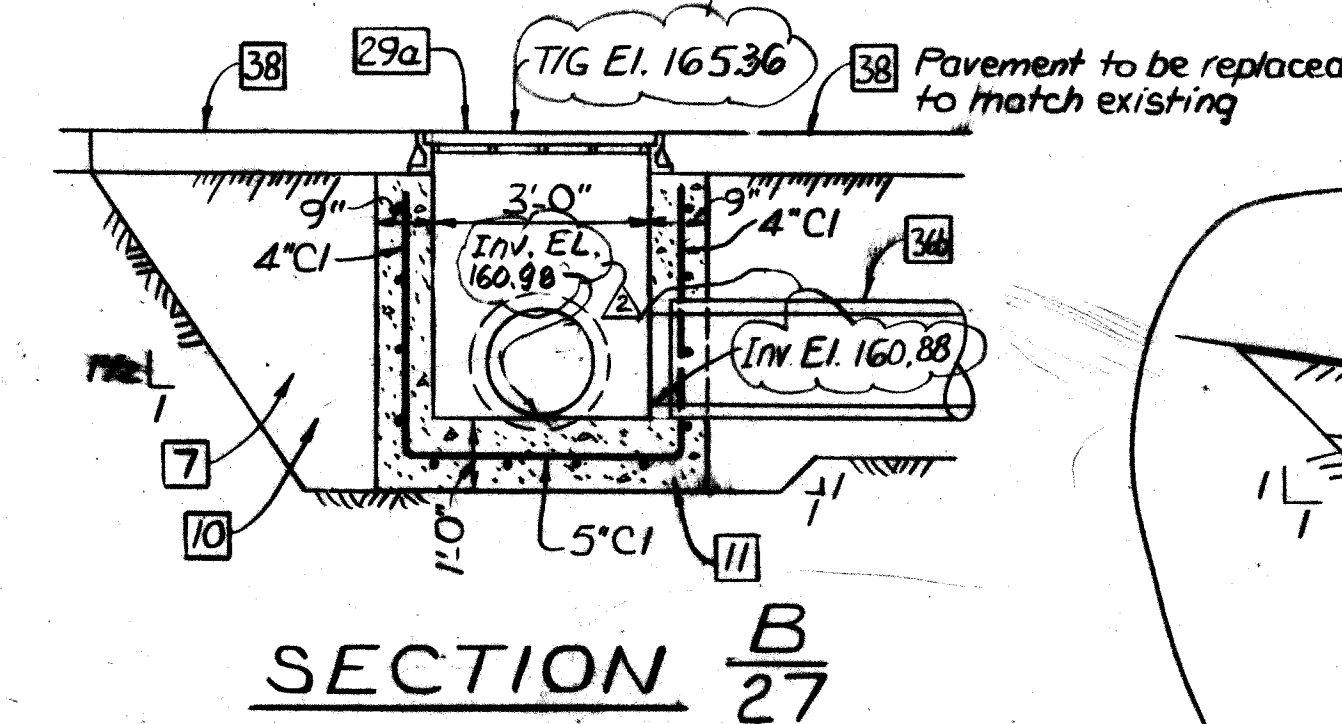
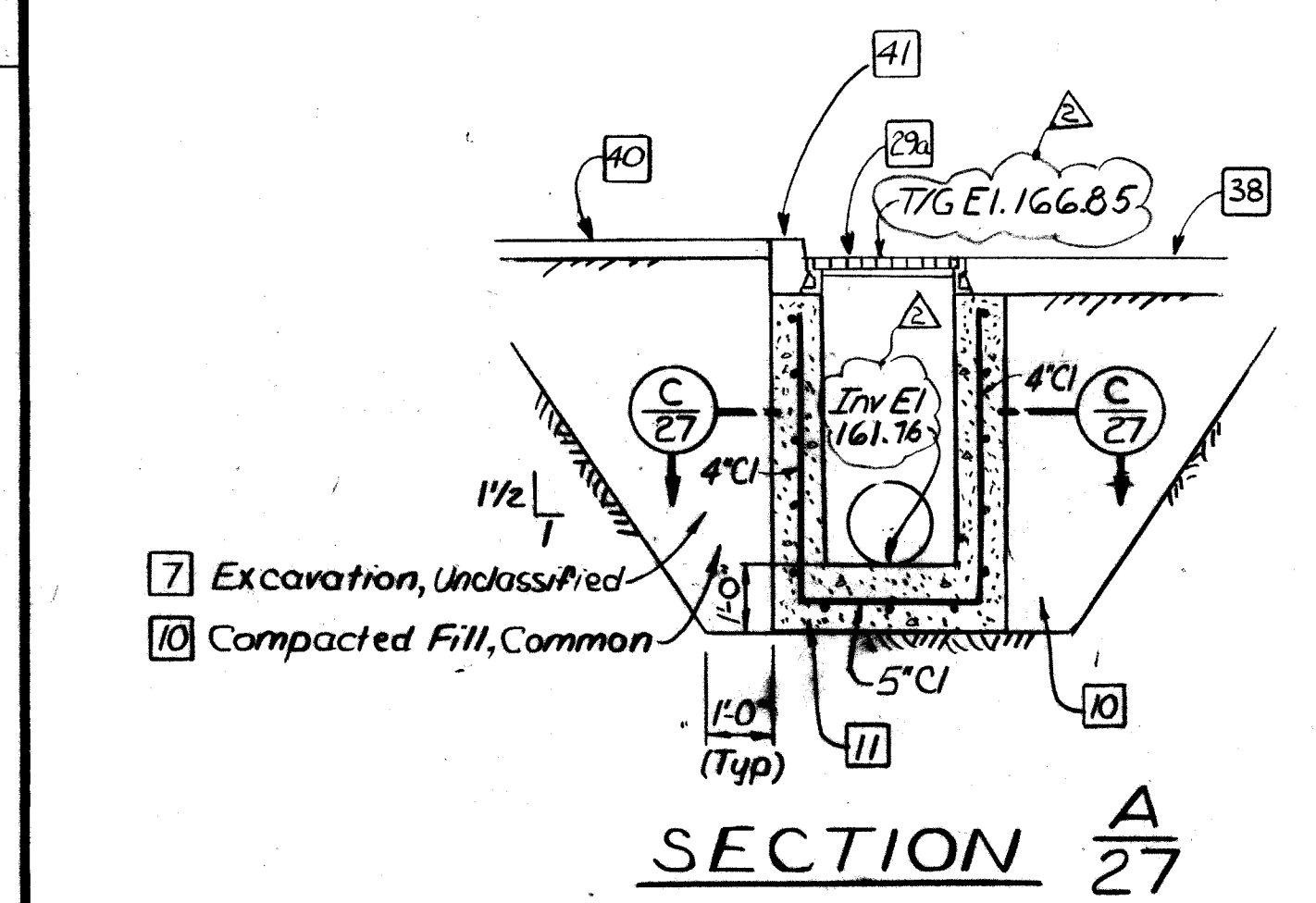
40-41
Existing sidewalk & curb to be reconstructed as required within the disturbed area (Typ)



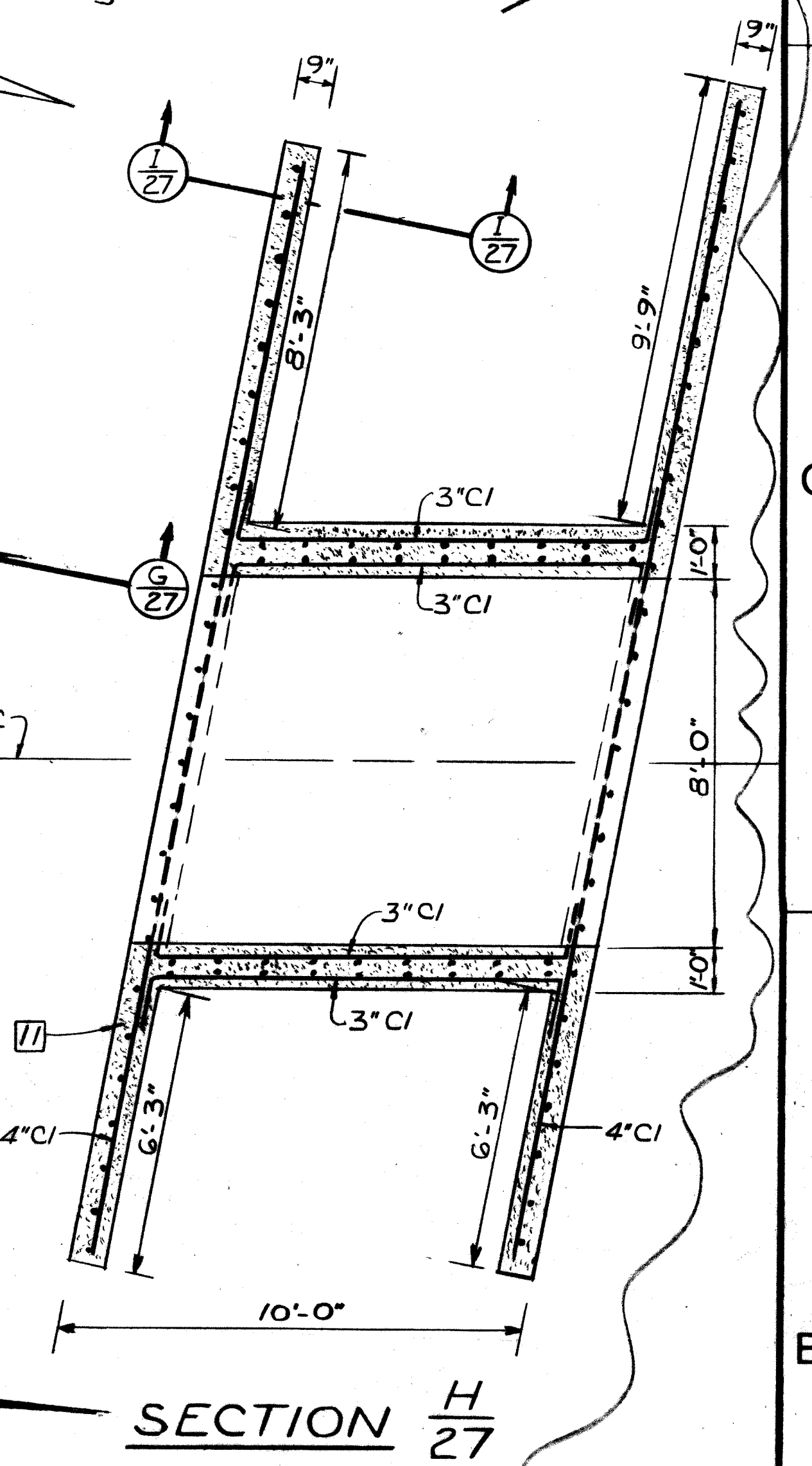
PLAN
Scale: 3/8" = 1'-0"



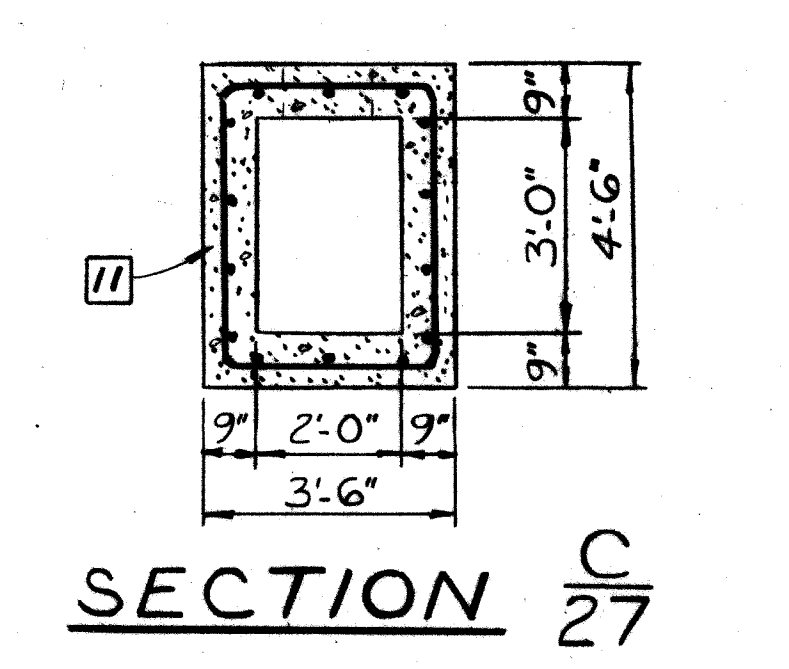
PLAN



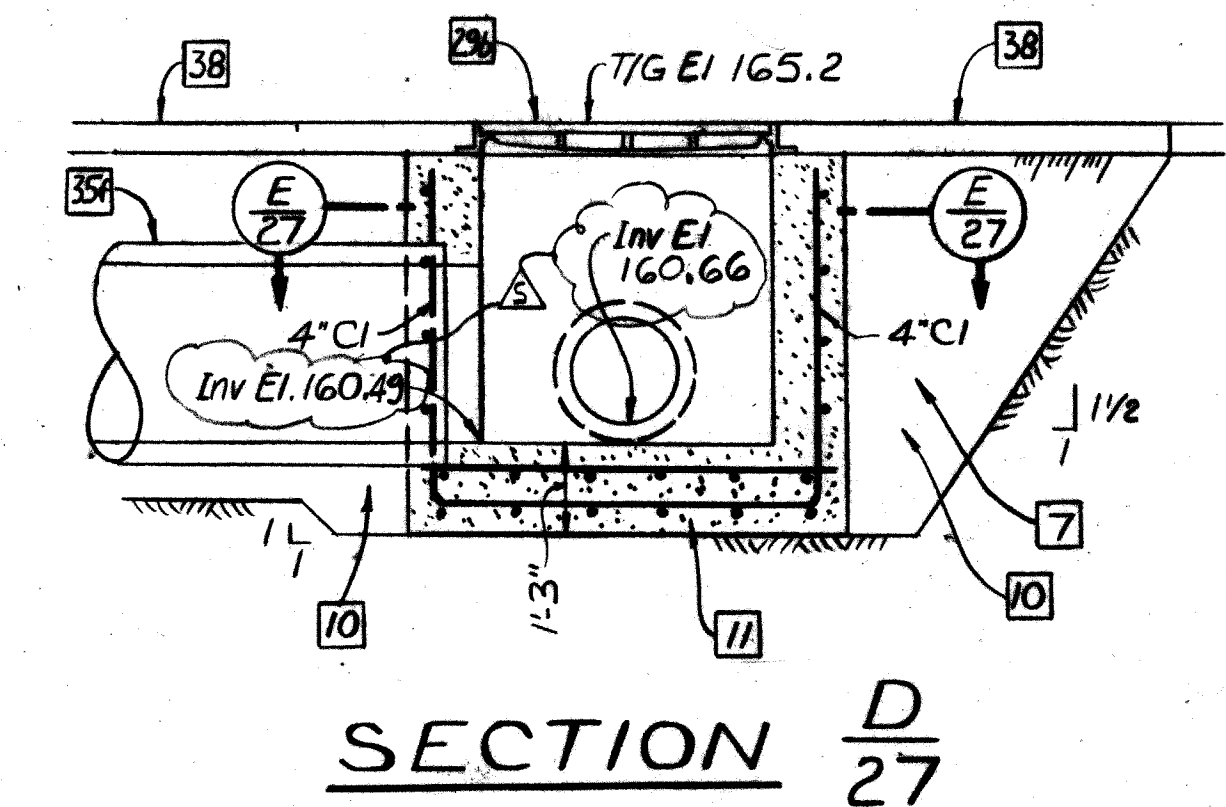
SECTION G-27



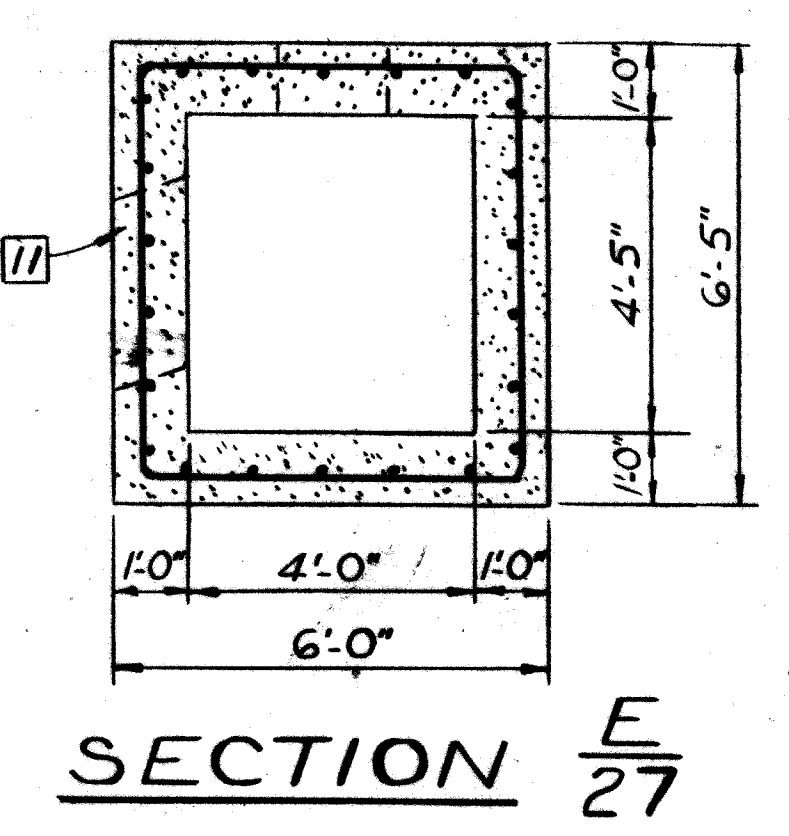
SECTION H-27



SECTION C-27

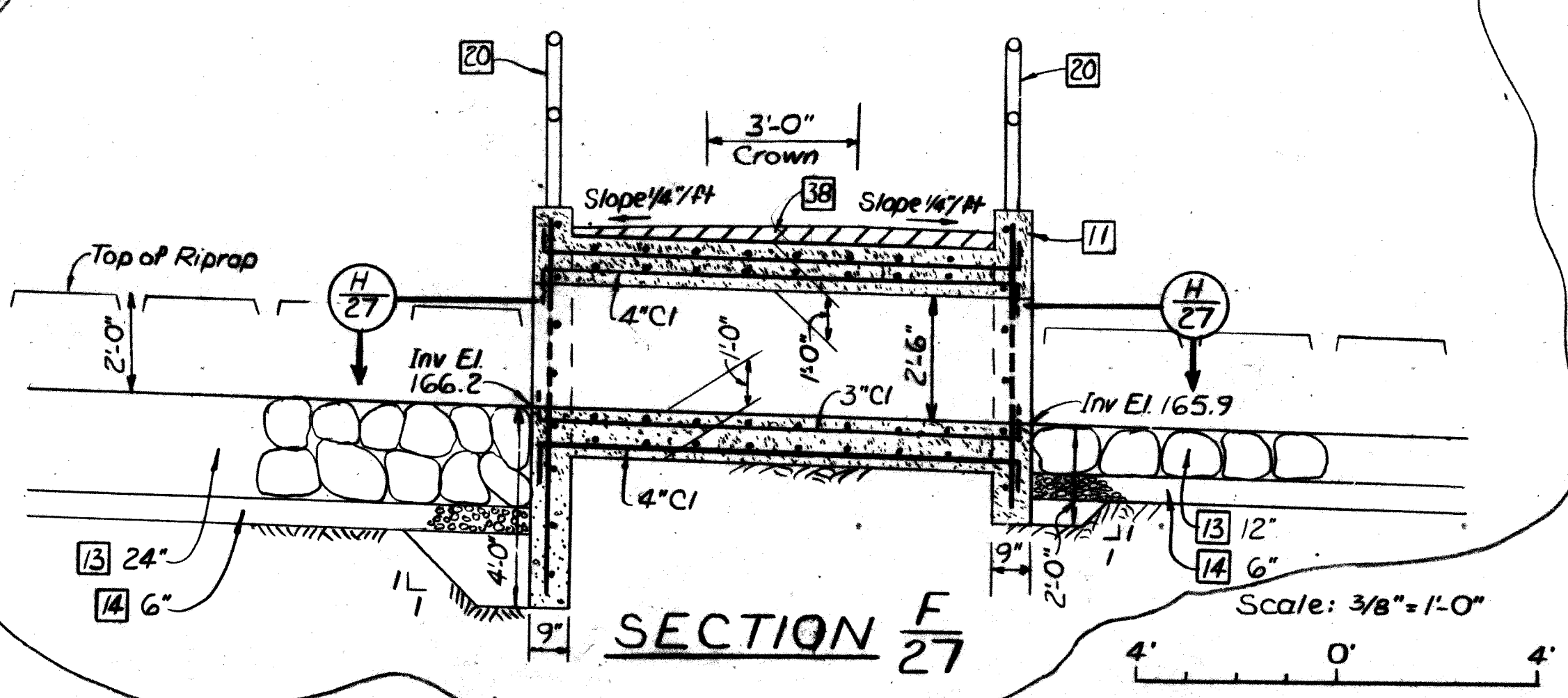


SECTION D-27



SECTION E-27

Structural Notes:
All reinforcing steel shown on this sheet shall be #5 @ 12" O.C. both ways.
All horizontal steel shall be continuous.



SECTION F-27

Notes:
For General Notes, see Sheet No. 1.
For Location of Drainage Facilities, see Sheet No. 9.
For Details of Bituminous Pavement, see Sheet No. 35.

Deleted Access Ramp, see Plan on Sheet 9 of 44 (Request by NYSDEP)

RECORD DRAWING
OF WORK AS BUILT

Revised	Deleted Access Ramp No. 3, Rev. Elevations - as built	31 JUL 90	O.F.F.
Revised	Revised Box Culvert	5 May 87	T.D.
Revision	Description	Date	Approved
U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS NEW YORK, NEW YORK			
Designed by:	SAWMILL RIVER, NEW YORK		
Drawn by:	ARDSEY FLOOD CONTROL PROJECT		
Checked by:	DROP INLETS NO. 6, 7 & 8		
Reviewed by:	BOX CULVERT		
Approved by:	ARDSEY	Sheet reference number:	Date: 20 JULY 1987
Concurred by:	CHIEF, ENGINEERING DIVISION	Scale: AS SHOWN	Sheet 27 of 44

DH 17A LOG OF BORING GROUND ELEVATION 167.0

TEST BORING LOG										BORING NO.	
PROJECT: Ardsley Flood Control										SHEET NO. 1 OF 3	
CLIENT: The RBA Group										JOB NO.: 20011	
BORING CONTRACTOR: [Blank]										ELEVATION:	
DATE	TIME	DEPTH	CASING	TYPE	LOG	DATE	TIME	DEPTH	CASING	DATE STARTED: 12/22/96	
12/22/96		28.7'	4"	W.P.	WT.					DATE FINISHED: 12/22/96	
										DRILLER: [Blank]	
										INSPECTOR: C. Sigel	
DEPTH	TIME	DEPTH	CASING	TYPE	LOG	DEPTH	TIME	DEPTH	CASING	IDENTIFICATION	
1						1				REMARKS	
2						2				Topsoil - Brown sandy silt, pieces of stones, root fibers (SM-SC)	
3						3					
4						4					
5						5					
6						6					
7						7					
8						8					
9						9					
10						10					
11						11					
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42						42					
43						43					
44						44					
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46						46					
47						47					
48						48					
49						49					

PLAN SCALE: 1"=20'

NOTES:

OVERFLOWS FROM CROTON AQUEDUCT INTO BLOWOFF TUNNEL CAN NOT BE CONTROLLED. CONTRACTOR SHALL MONITOR WATER ELEVATION IN AQUEDUCT TO SIGNAL POSSIBLE OVERFLOWS INTO BLOWOFF TUNNEL.

ALL CONSTRUCTION SHOULD BE PERFORMED IN A SAFE MANNER IN THE EVENT BLOWOFF TUNNEL FLOW SHOULD OCCUR.

For Relocated Intake Structure see Plan on Sheet 3A of 44 & 28A of 44

SECTION SCALE: 1"=4'

NOTE:

- SHAFT WALLS TO BE FORMED AGAINST ROCK FROM EL. 154.0' ± TO THE BOTTOM. WALL THICKNESS SHOWN ON DRAWINGS ARE MIN. REQ'D.
- PROVIDE ELASTOMERIC GASKET IN BETWEEN EACH PIPE SEGMENT.

RECORD DRAWING
OF WORK-AS-BUILT

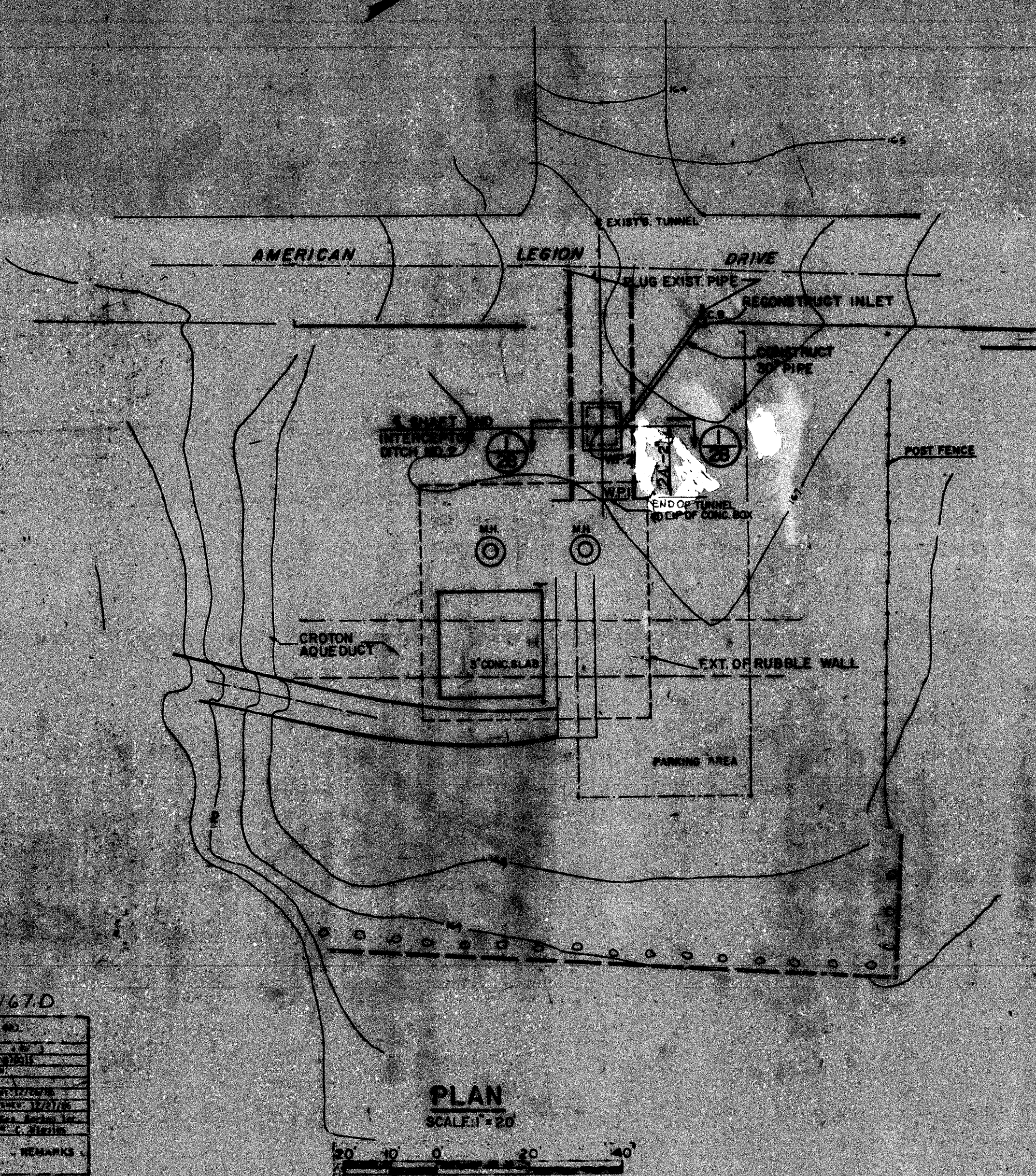
General Notes Intake Structure And Blowoff Connection

- Design Specifications:
 - ACI 318-83 - American Concrete Institute Building Code Requirements for Reinforced Concrete
- Concrete Design Stresses:
 - A.) Specified Compressive Strength (f'_c)..... 4000Psi
 - B.) Extreme Fiber in Compression (f'_c)..... 1800Psi
- Reinforcement Steel:
 - A.) ASTM A615 (Grade 60) (FS) = 24,000Psi
 - B.) Epoxy coated reinforcing is necessary from EL. 124'-0" through construction joint at EL. 130'-9/2"
- Work Points
 - A.) — indicates location of work point

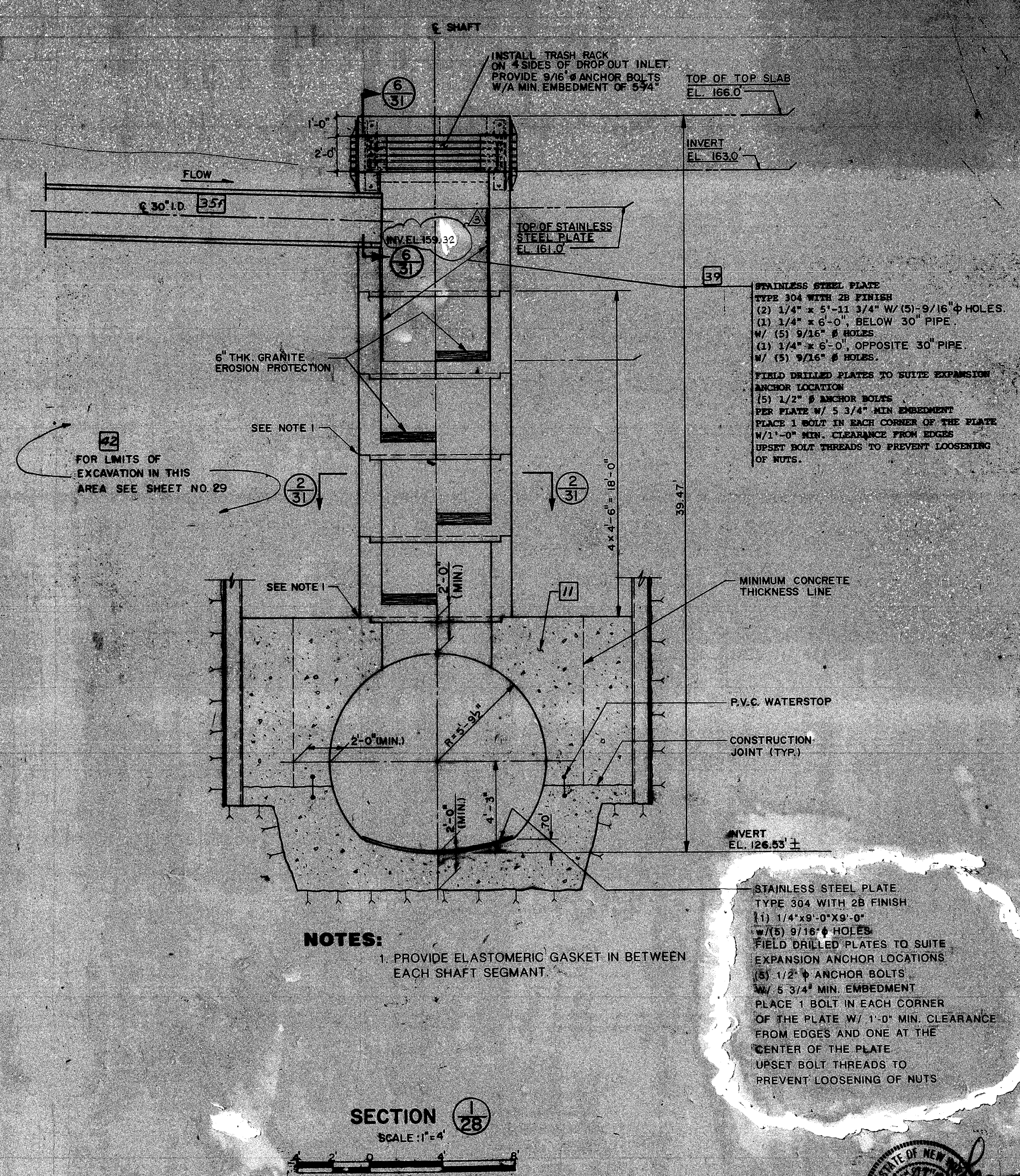
Revision		Description	Date	Approved
1		Intake Structure relocated-as built	3/11/97	O.P.
THE RBA GROUP		U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS NEW YORK, NEW YORK		
Designed by: K.R.V.		SAW MILL RIVER, NEW YORK		
Drawn by: F.L.		ARDSELY FLOOD CONTROL PROJECT		
Checked by: R.M.		BLOWOFF TUNNEL		
Reviewed by: [Signature]		LOCATION PLAN AND SECTION		
Approved by: [Signature]		NEW YORK		
Sheet reference number:		Date: 3/11/97		
OC-ARD-428		Scale: AS SHOWN		
Sheet: 28 of 44				

LOG OF BORING
GROUND ELEVATION 167.0

TEST BORING LOG									
DEPTH (FEET)	TIME	DEPTH (FEET)	TIME	DEPTH (FEET)	TIME	DEPTH (FEET)	TIME	DEPTH (FEET)	TIME
0		0		0		0		0	
1		1		1		1		1	
2		2		2		2		2	
3		3		3		3		3	
4		4		4		4		4	
5		5		5		5		5	
6		6		6		6		6	
7		7		7		7		7	
8		8		8		8		8	
9		9		9		9		9	
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12		12		12		12		12	
13		13		13		13		13	
14		14		14		14		14	
15		15		15		15		15	
16		16		16		16		16	
17		17		17		17		17	
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19		19		19		19		19	
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48		48		48		48		48	
49		49		49		49		49	
50		50		50		50		50	



NOTES:
OVERFLOWS FROM CRUTON AQUEDUCT INTO BLOW-OFF TUNNEL CAN NOT BE CONTROLLED. CONTRACTOR SHALL MONITOR WATER ELEVATION IN AQUEDUCT TO SIGNAL POSSIBLE OVERFLOWS INTO BLOW-OFF TUNNEL.
ALL CONSTRUCTION SHOULD BE PERFORMED IN A SAFE MANNER IN THE EVENT BLOW-OFF TUNNEL FLOW SHOULD OCCUR.



- General Notes Intake Structure and Blowoff Connection**
- Design Specifications:**
 - A) ACI 318-83 American Concrete Institute Building Code Requirements for Reinforced Concrete.
 - B) Strength Design Criteria for Reinforced Concrete Hydraulic Structures ETL 1110-2-312
 - Concrete Design Stresses:**
 - Specified Compressive Strength (F'c).....4000 psi
 - Reinforced Steel:**
 - A) ASTM A615 (grade 60) (Fy) 40,000 psi.
 - B) Extra reinforcing is necessary below through all construction joints.
 - Work Notes:**
 - A) — indicates location of work point

RECORD DRAWING OF WORK AS-BUILT

REPUBLIC OF NEW YORK
OFFICE OF THE ENGINEER

Value Engineering Sheet 28A added - as built

1-12-84 ADDED STAINLESS STEEL PLATE & REV. DIMENSION

10-6-84 VALUE ENGINEERING PROPOSAL

REVISIONS

NO.	DATE	DESCRIPTION
1	10-6-84	VALUE ENGINEERING PROPOSAL
2	1-12-84	ADDED STAINLESS STEEL PLATE & REV. DIMENSION

CONTRACTOR: ECCO II ENTERPRISES, YONKERS, NEW YORK

DEPARTMENT OF THE ARMY, NEW YORK DISTRICT, CORPS OF ENGINEERS, NEW YORK, NEW YORK

SAW MILL RIVER, NEW YORK

VALUE ENGINEERING PROPOSAL, ARDSLEY FLOOD CONTROL PROJECT, BLOW-OFF TUNNEL, LOCATION PLAN AND SECTION

DRAWN BY: M.E.P., W.Y.C.

CHECKED BY: M.E.M.

DESIGNED BY: A.T.R.

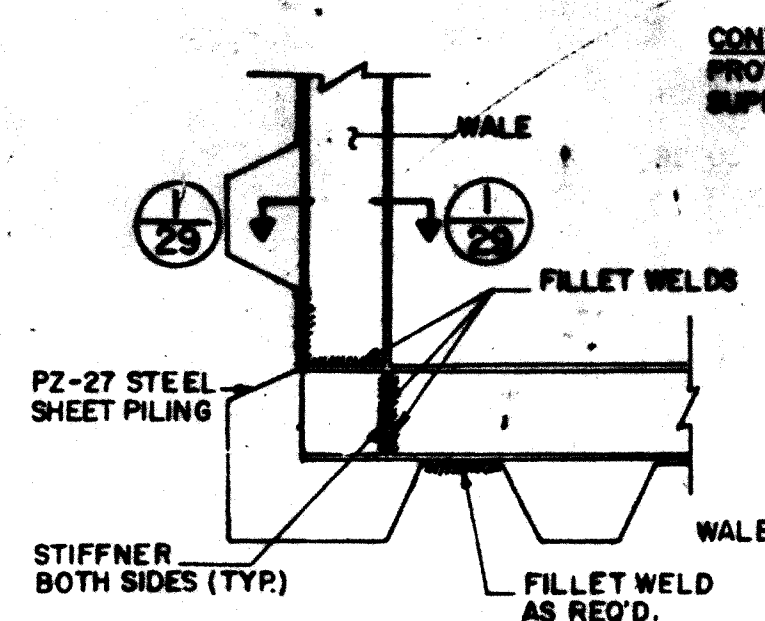
REVIEWED BY: [Signature]

APPROVED BY: [Signature]

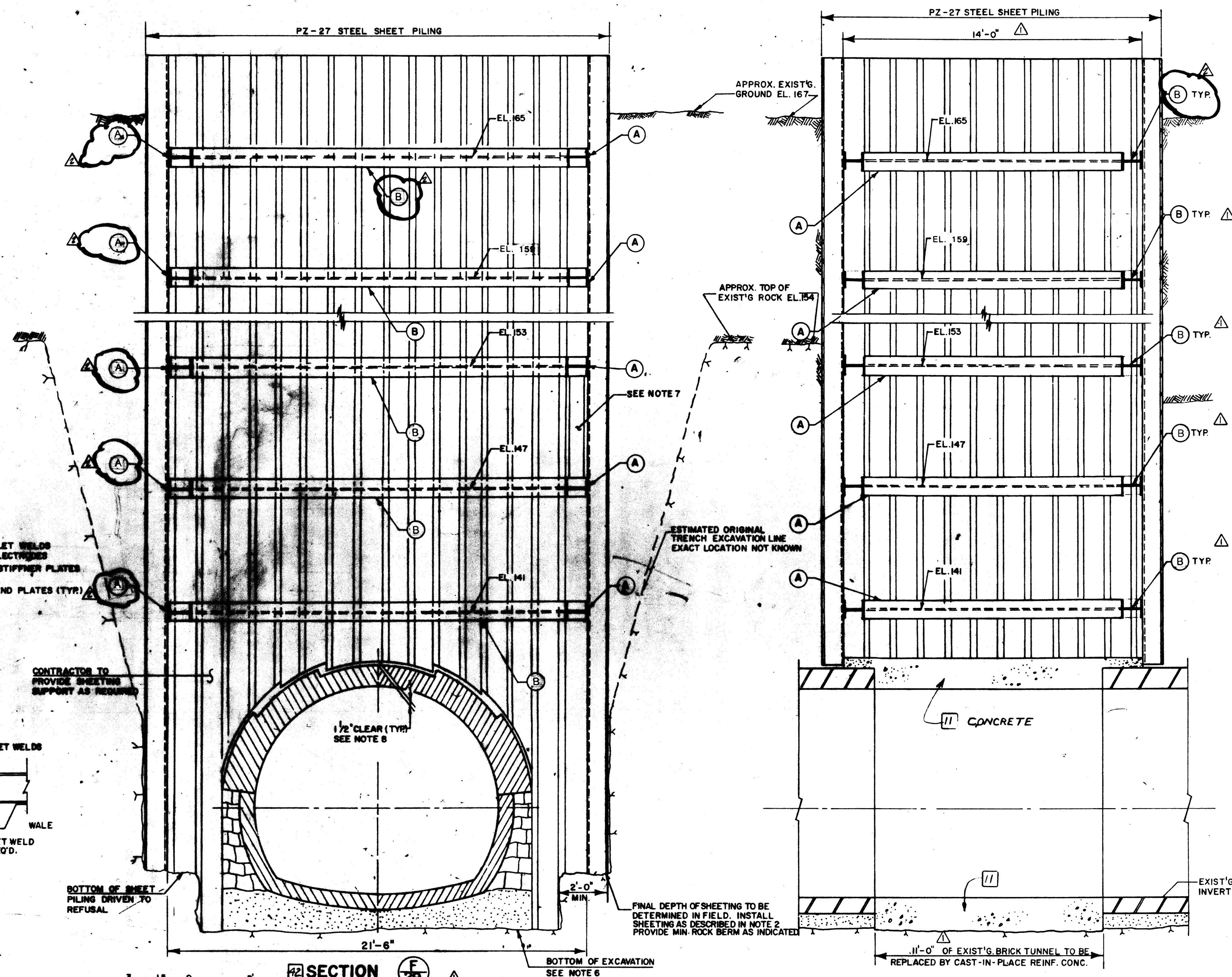
DATE: [Blank]

DRAWING NUMBER: CC-ARD-428, SHEET 28 OF 25

- NOTES:
1. 5/16" FILLET WELDS 6700X ELECTRODES
 2. 1" THICK STIFFENER PLATES (TYP.)
 3. 1" THICK END PLATES (TYP.)

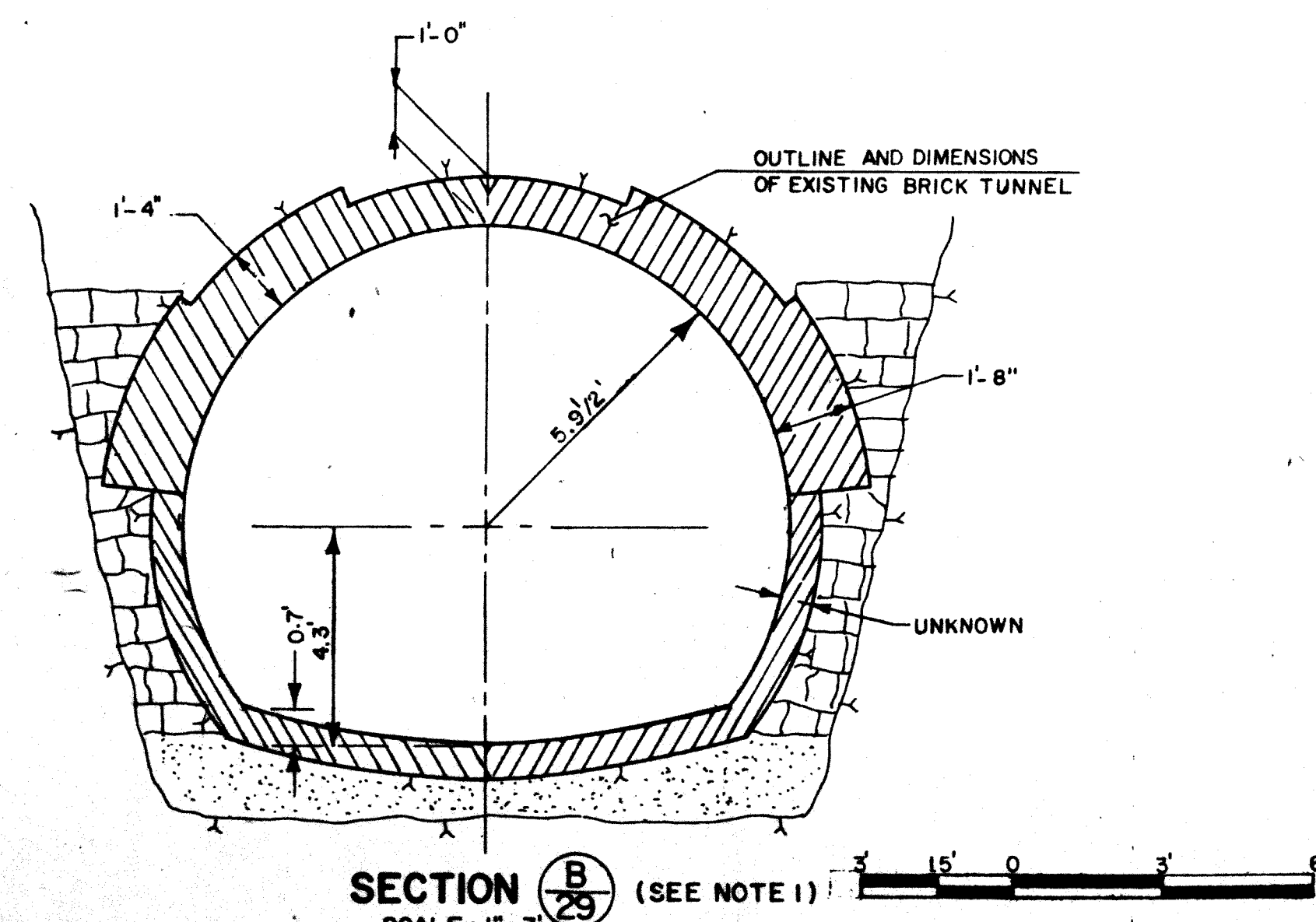
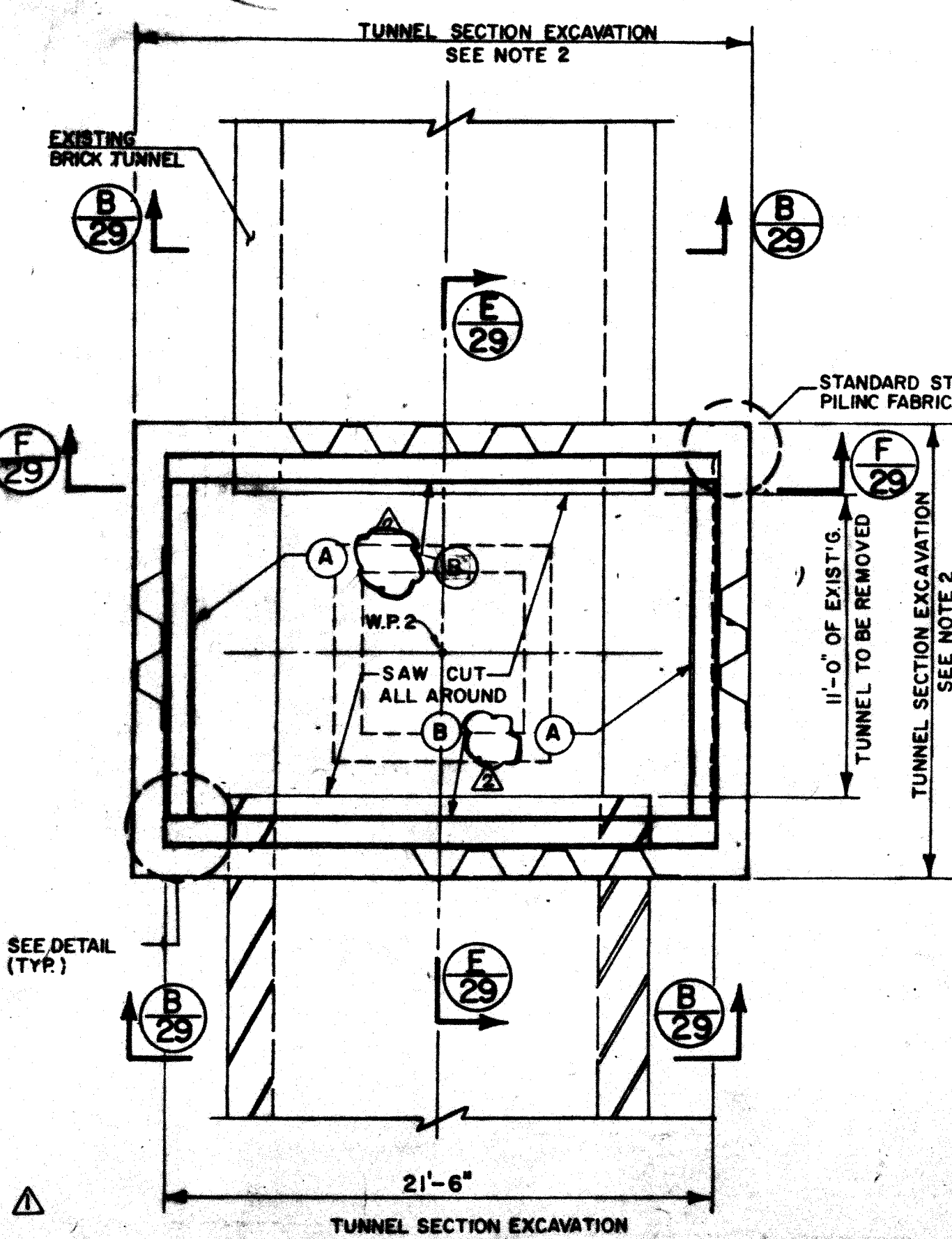


SECTION I-I
DETAIL I
NTS.



LEGEND

- (A) W12 x 136 WALE
- (B) W12 x 210 WALE

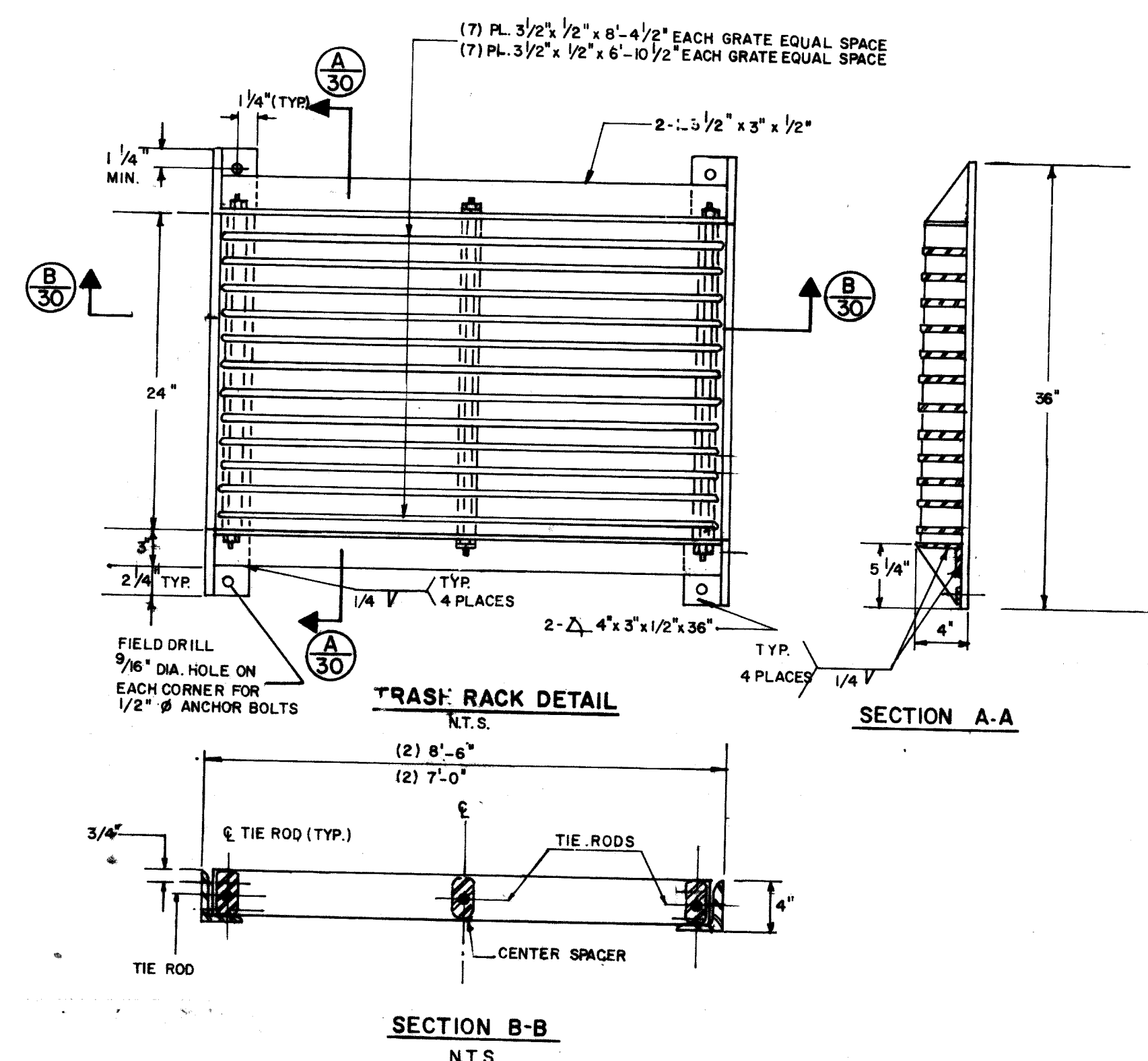
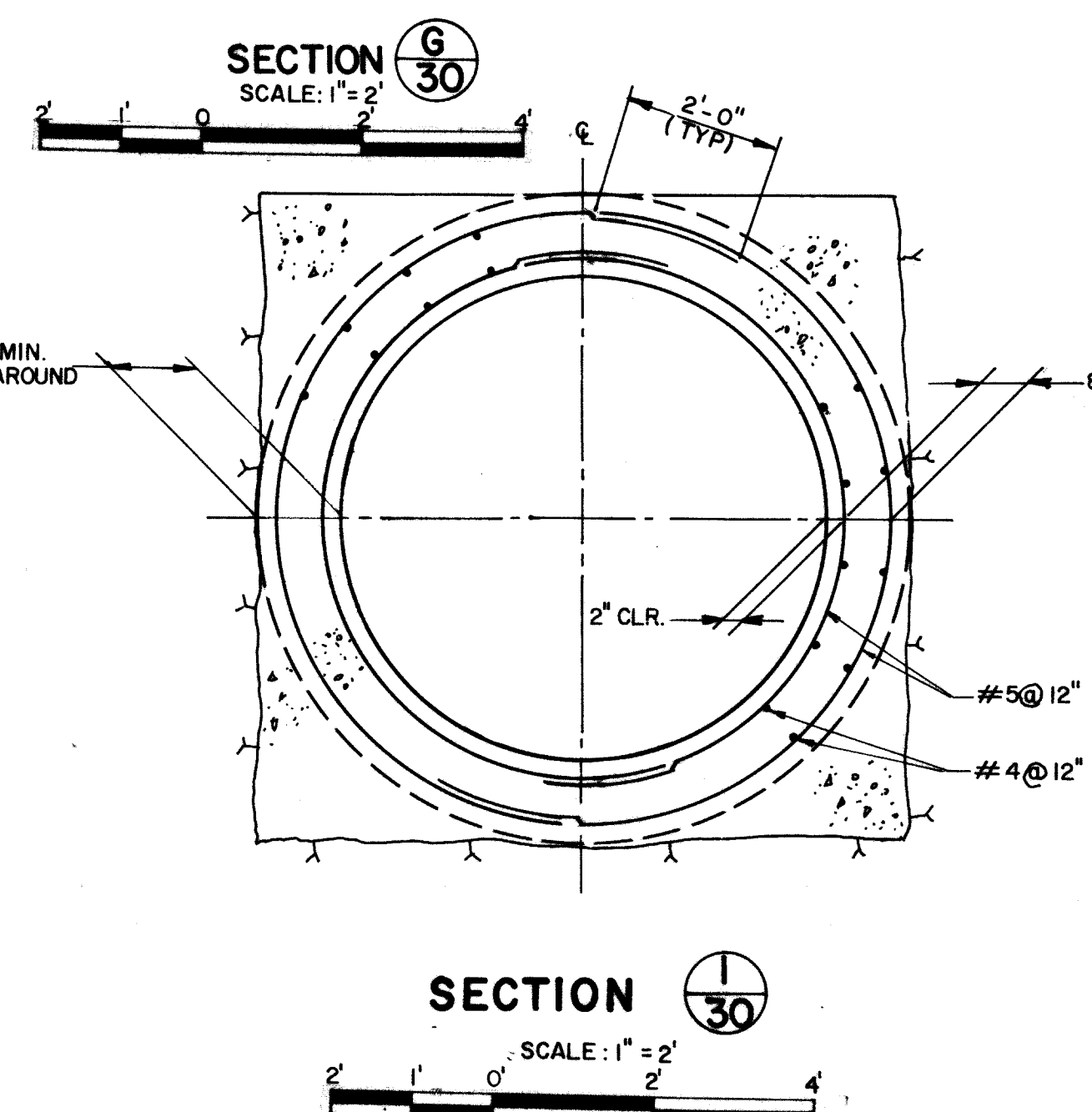
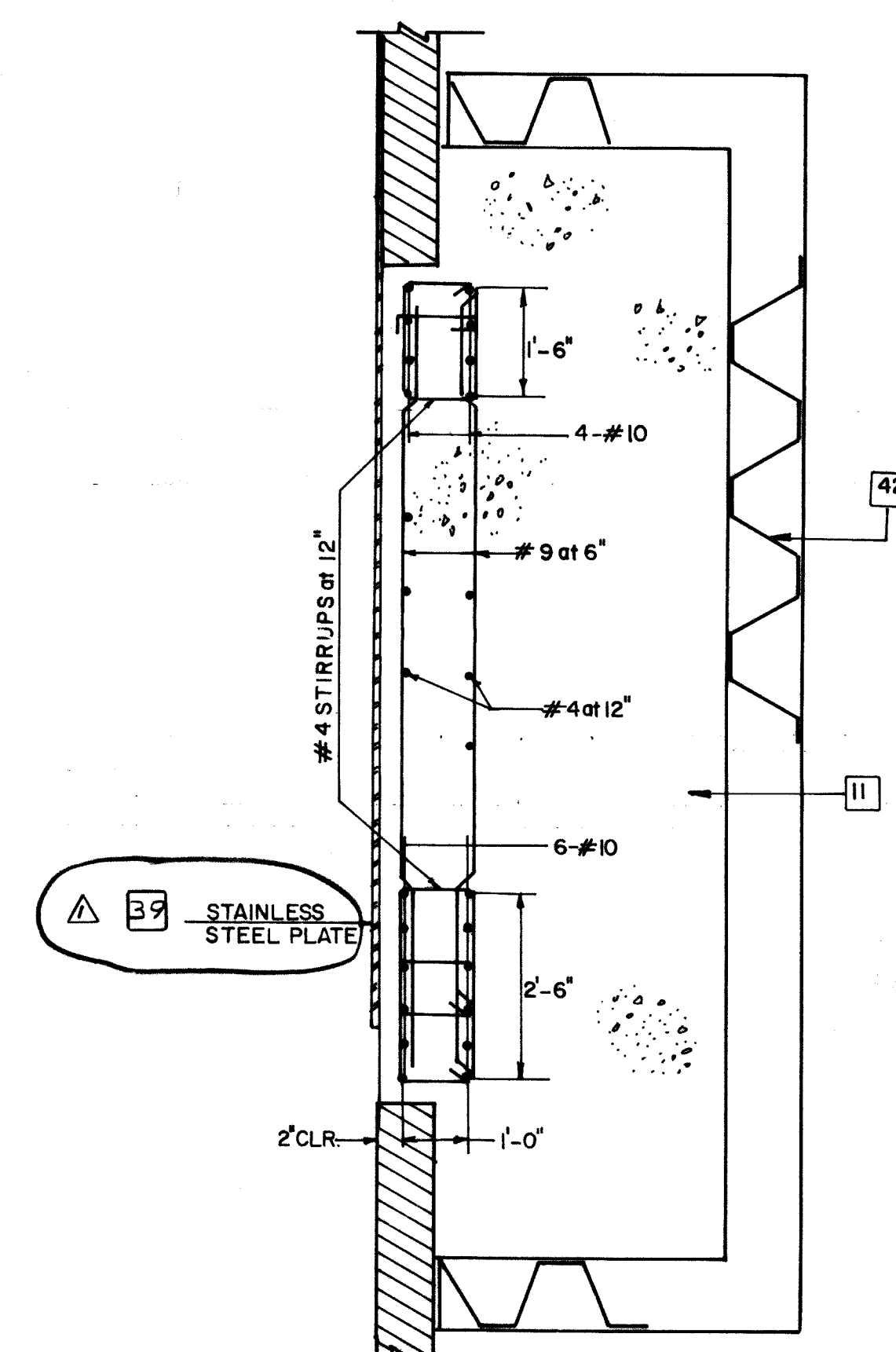
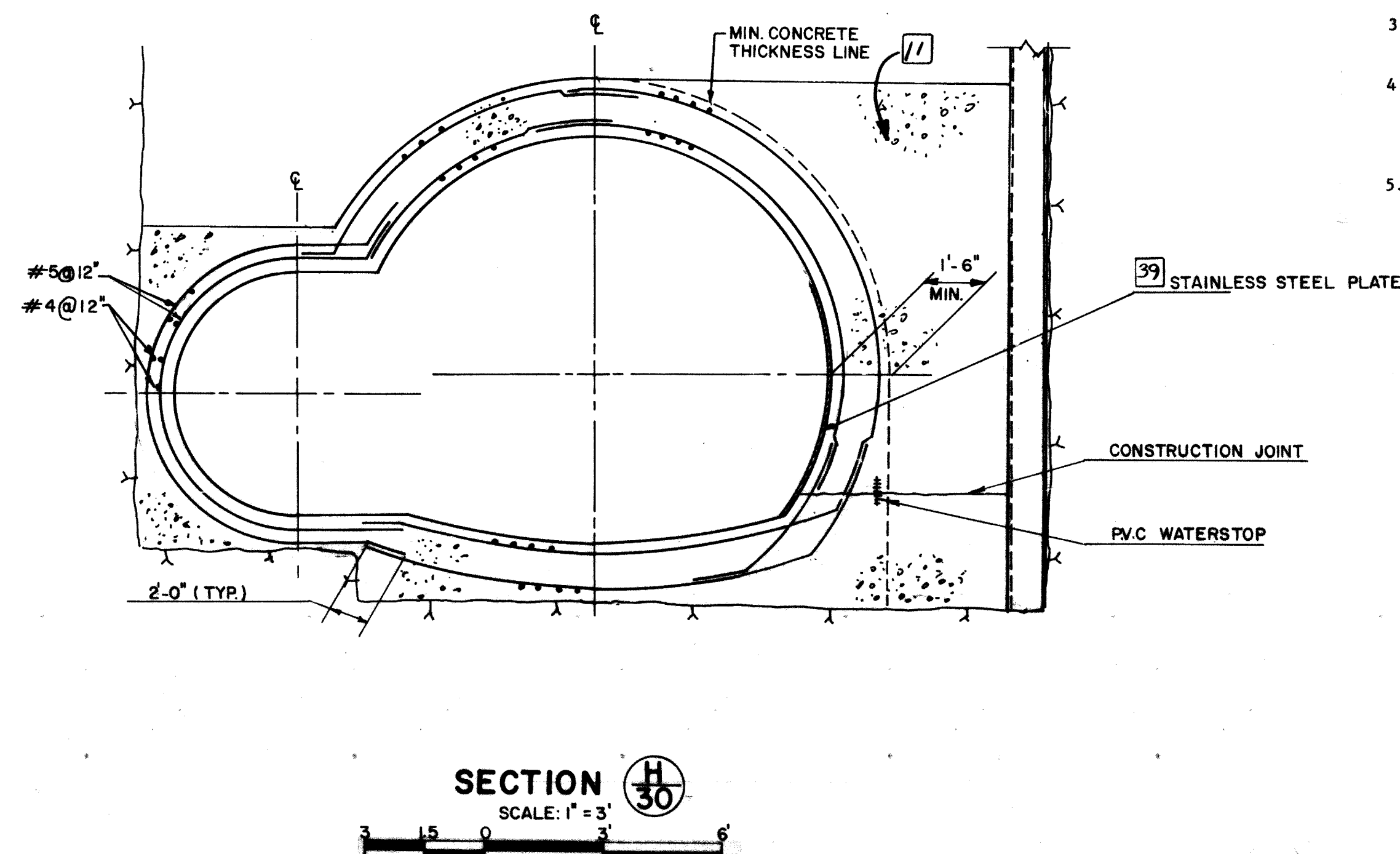
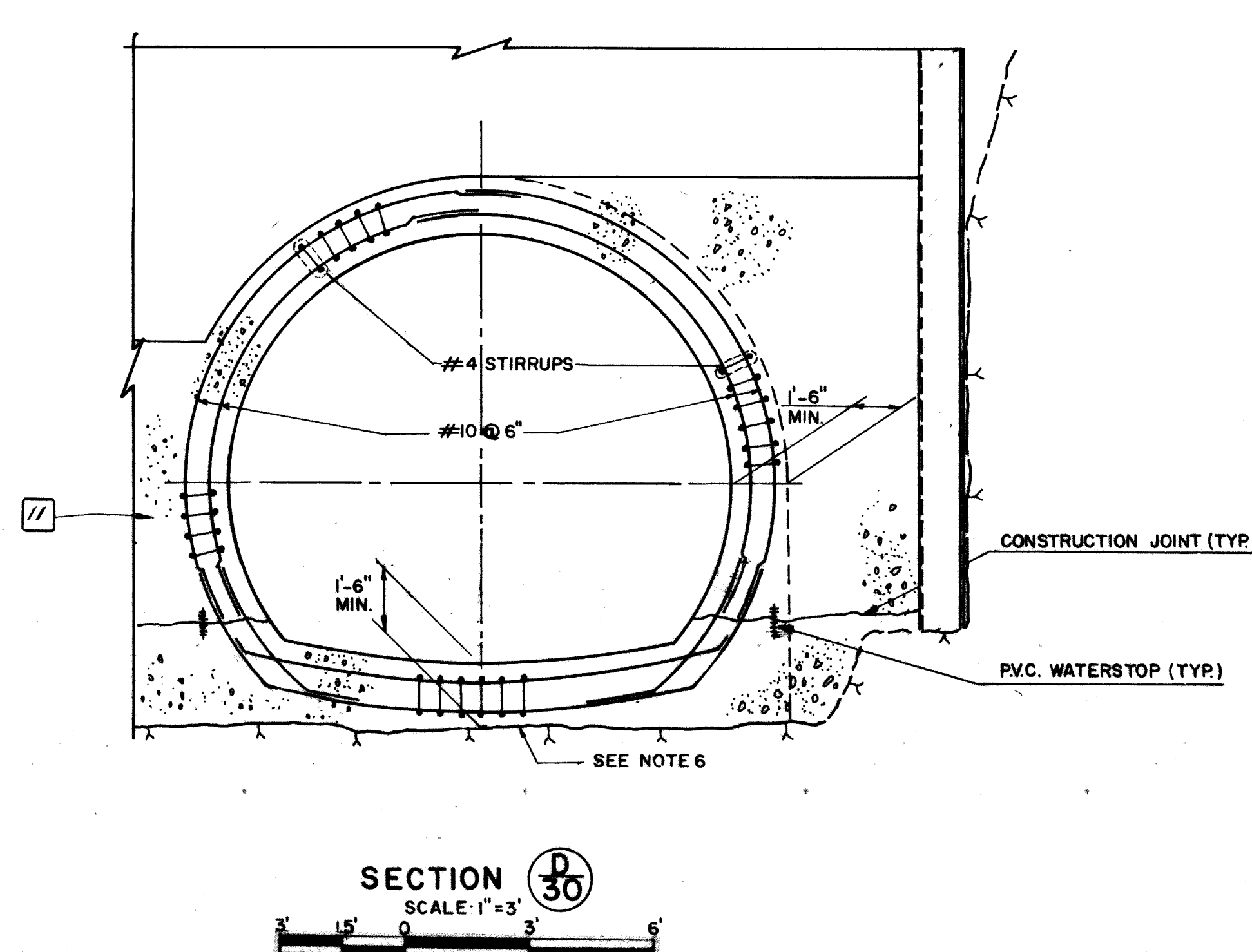
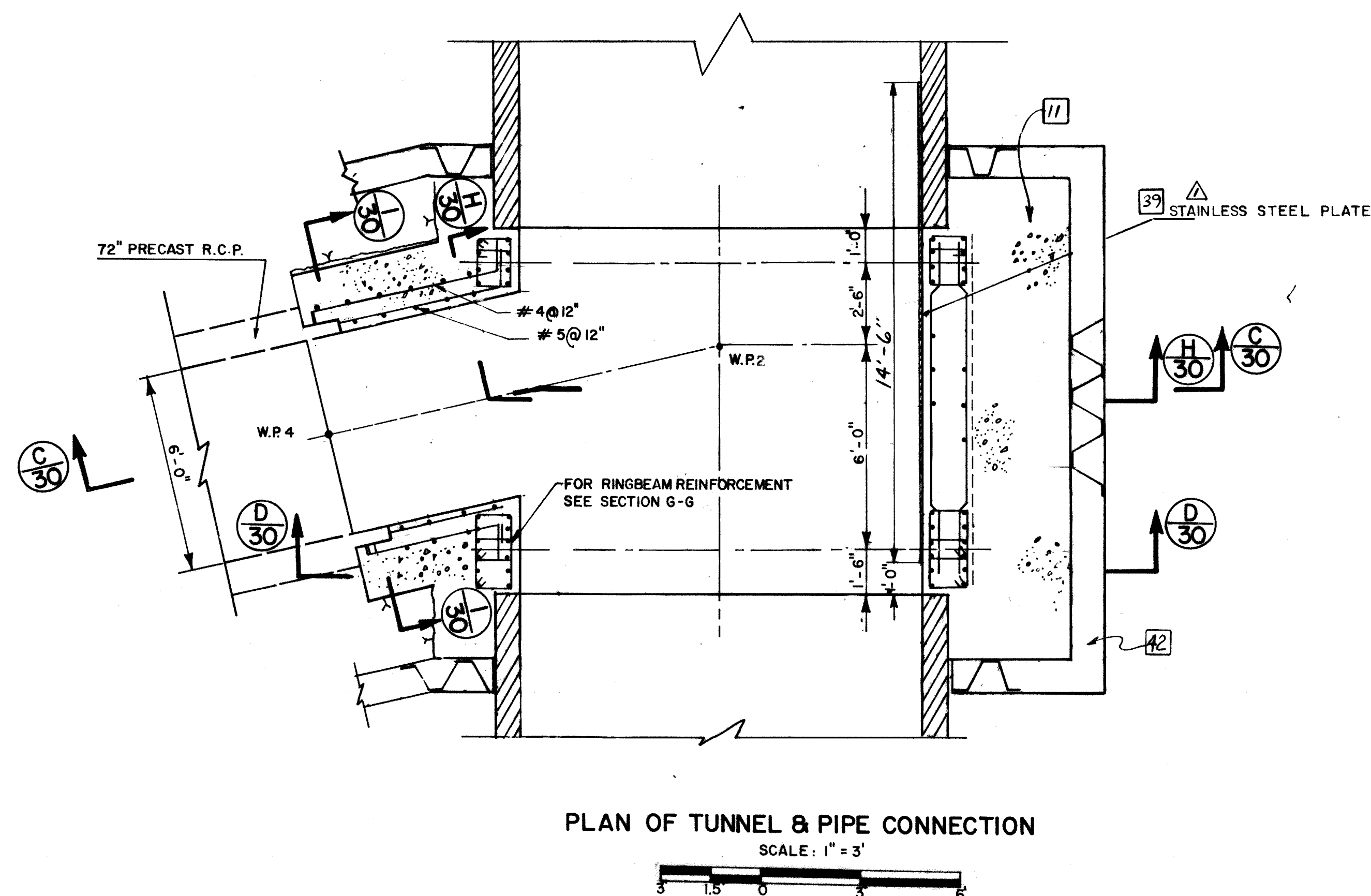
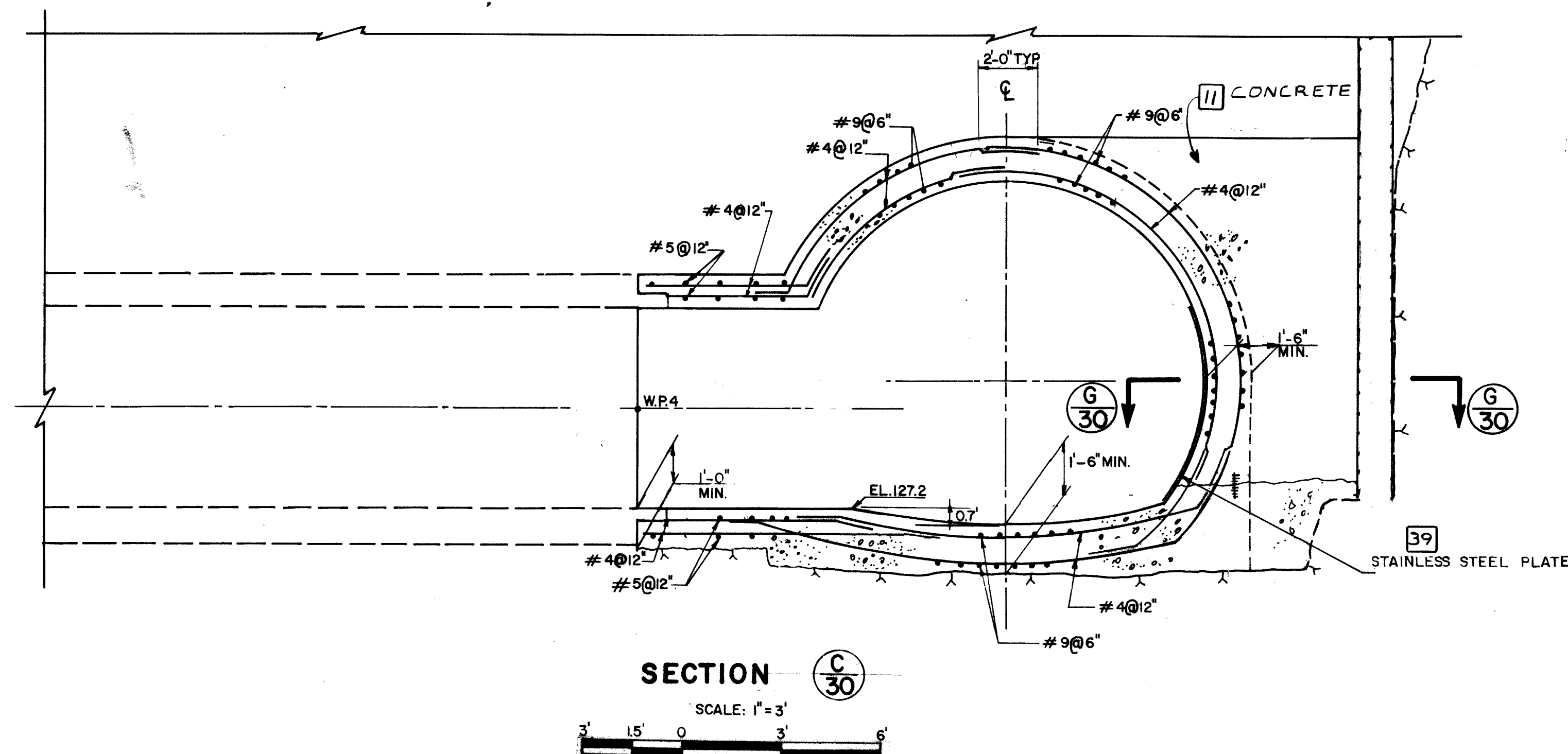


TUNNEL AND SHEETING NOTES:

1. DIMENSIONS INDICATED AND DETAILS OF EXISTING TUNNEL CROSS SECTION INDICATED ARE BASED ON ORIGINAL DESIGN DRAWINGS. ACTUAL DIMENSIONS AND DETAILS MAY VARY.
2. BELOW ELEVATION 15.0, SHEETING SHALL BE INSTALLED AS SPECIFIED WITH THE FOLLOWING ADDITIONAL REQUIREMENTS. SHEETING WALL SHALL BE ADVANCED BY ALTERNATELY EXCAVATING BELOW THE TOE OF THE SHEETING AND THEN DRIVING THE SHEETING TO THE BOTTOM OF THE PREPARED EXCAVATION IN STEPS OF 3/4" MAXIMUM SO AS TO MINIMIZE THE POTENTIAL FOR DAMAGE TO THE EXISTING TUNNEL. VOIDS RESULTING FROM OVEREXCAVATION BENEATH SHEETING BE FILLED WITH CONCRETE.
3. PZ-27 SHEET PILING SHALL HAVE THE FOLLOWING PROPERTIES:

WEIGHT		SECTION MODULUS	
PER FT.	PER SQ. FT. OF WALL	NOMINAL WEB THICKNESS	PER FT. OF WALL
LBS.	LBS.	IN.	IN. ³
40.5	27.0	3/8	30.2
4. CONTRACTOR SHALL PROVIDE TEMPORARY INTERNAL SUPPORT FOR THE EXISTING BRICK TUNNEL PRIOR TO DRIVING SHEET PILING. PROPOSED INTERNAL SUPPORT SHALL BE APPROVED BY THE CONTRACTING OFFICER.
5. ANY DAMAGES TO THE BRICK TUNNEL RESULTING FROM THE CONSTRUCTION ACTIVITIES SHALL BE REPAIRED AS DIRECTED BY CONTRACTING OFFICER.
6. EXCAVATE TO A DEPTH OF 2'-0" FROM THE TUNNEL INVERT OR TO SOUND ROCK WHICHEVER IS GREATER.
7. CONTRACTOR SHALL PROVIDE VERTICAL BRACES AND TEMPORARY SUPPORT FOR STRUTS AND WALES DURING SHEETING INSTALLATION AS DESCRIBED IN NOTE 2 ABOVE.
8. CONTRACTOR SHALL PREVENT SOIL AND/OR WATER INFILTRATION AS REQUIRED.
9. INTERNAL DIMENSIONS OF NEW REINFORCED CONCRETE TUNNEL TO MATCH THAT OF THE EXISTING BRICK TUNNEL.
10. ALL INTERIOR CONCRETE SURFACE SHALL RECEIVE FINISHES AS SPECIFIED.
11. ALL SHEETING, STRUTS AND WALES SHALL BE LEFT IN PLACE. SHEETING SHALL BE CUT 3' BELOW PROPOSED SURFACE ELEVATION.
12. ALL CAST-IN-PLACE CONCRETE SHALL BE 4000 PSI.
13. STRUTS AND WALES SHALL BE ASTM A36.
14. STEEL REINFORCEMENT FOR CAST-IN-PLACE CONCRETE SHALL BE BY ASTM A615 GRADE 60.
15. CONTRACTOR SHALL UTILIZE CONSTRUCTION METHODS AND PROCEDURES TO INSURE THE INTEGRITY OF THE EXISTING BRICK TUNNEL.
16. ALL CONSTRUCTION JOINTS SHALL HAVE 9" P.V.C. WATERSTOP.

3/11/79 Value Engineering Sheet 29A added - as built		DT
1-12-89 REVISED WALE SIZES		A.P.
10-6-88 VALUE ENGINEERING PROPOSAL		M.M.
REVISION	DATE	DESCRIPTION
M.G. McLAREN, INC. CONSULTING ENGINEERS 10 PINE CREST RD. VALLEY COTTAGE, NY 10988		CONTRACTOR ECCO II ENTERPRISES YONKERS, NEW YORK
DEPARTMENT OF THE ARMY NEW YORK DISTRICT CORPS OF ENGINEERS NEW YORK, NEW YORK		
DRAWN BY: M.E.F. W.Y.C.		SAW MILL RIVER, NEW YORK
CHECKED BY: M.G.M.		VALUE ENGINEERING PROPOSAL
DESIGNED BY: A.I.R.		ARDSLEY FLOOD CONTROL PROJECT
REVIEWED:		BLOW-OFF TUNNEL
SUBMITTED:		PLAN SECTIONS AND DETAILS
APPROVED:		SCALE: AS SHOWN
COLONEL C.E. DISTRICT ENGINEER		DRAWING NUMBER CC-ARD-429
DATE:		SHEET 22 OF 25



- NOTES:
- All exposed metal parts shall be galvanized. Welding, machining and drilling shall be done before galvanizing. All dimensions are finished dimensions and include galvanizing.
 - Frame and grating shall be tested for accuracy of fit before delivery.
 - Bolt holes shall be 9/16" Dia. unless otherwise specified. Bolts (not rivets or welds) shall be used to join frames to concrete.
 - Anchor Bolts shall be 1/2" Dia. x 8" with square or hexagonal head and nut. Tie Rods shall be 1/2" Dia. x 27 1/2", threaded 1 1/2" on bolt ends. Use two, 1/2" Dia. square head nut each end.
 - All parts shall be of structural grade steel, except spacers, which shall be either cast iron or steel.

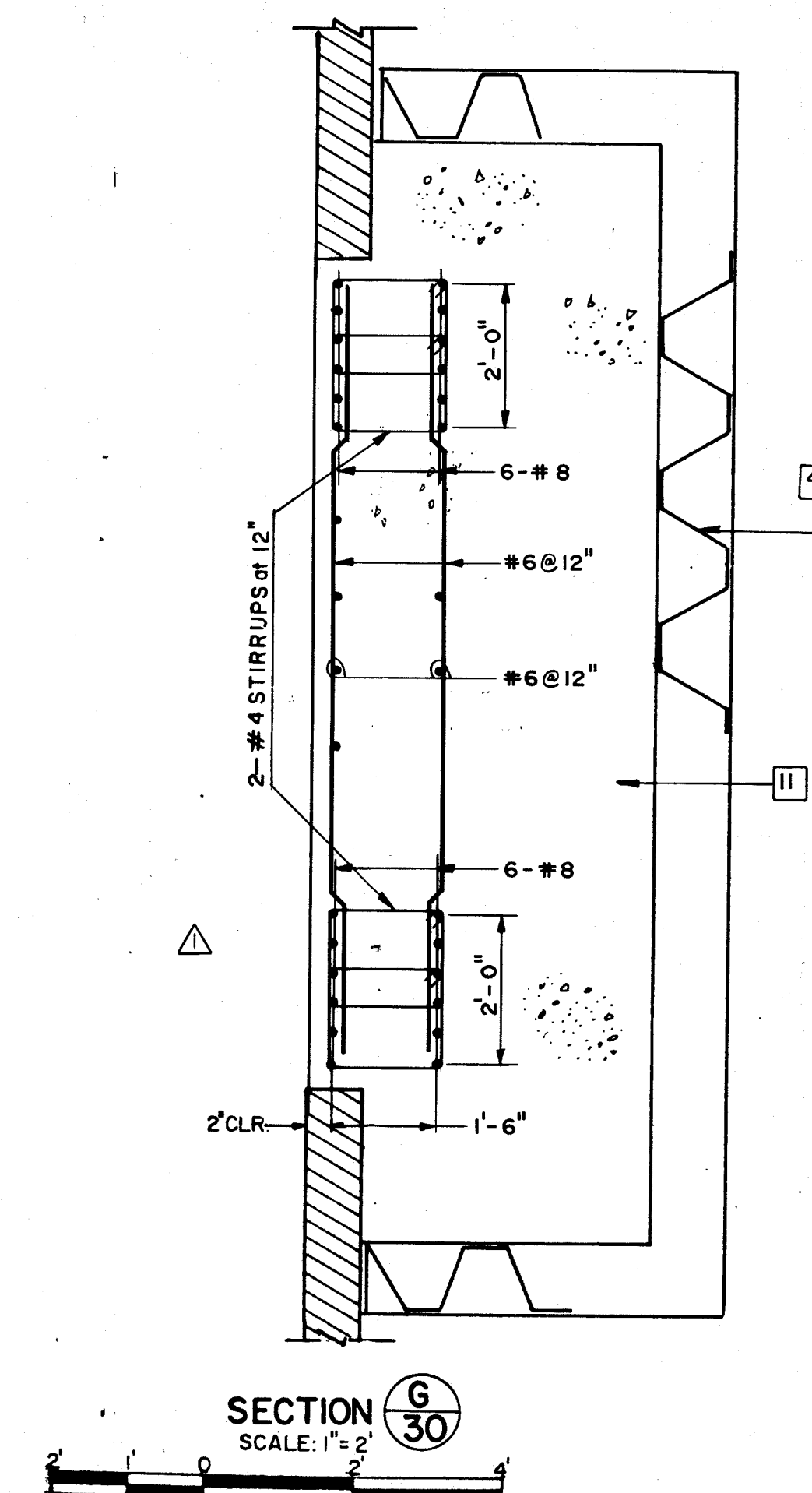
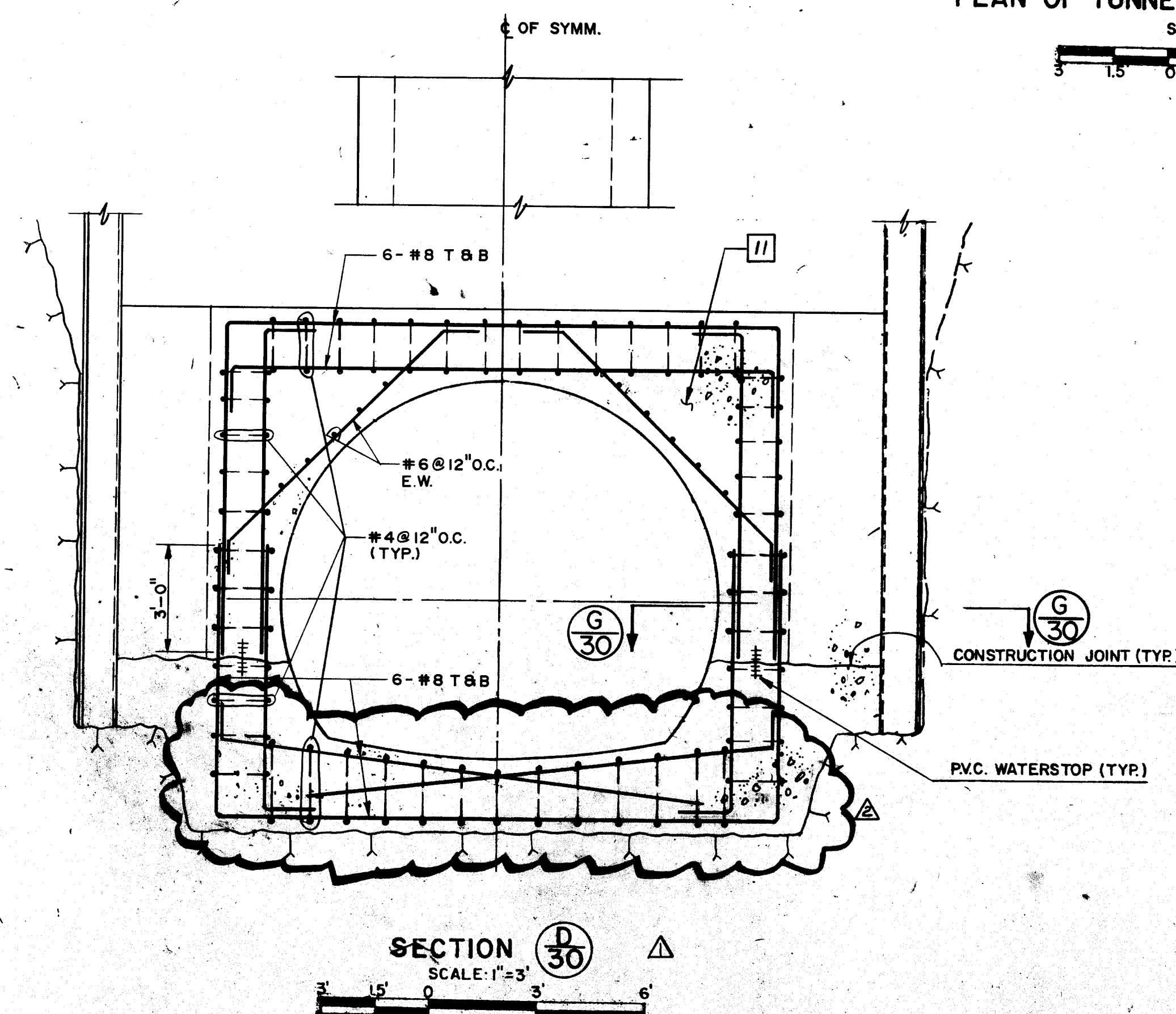
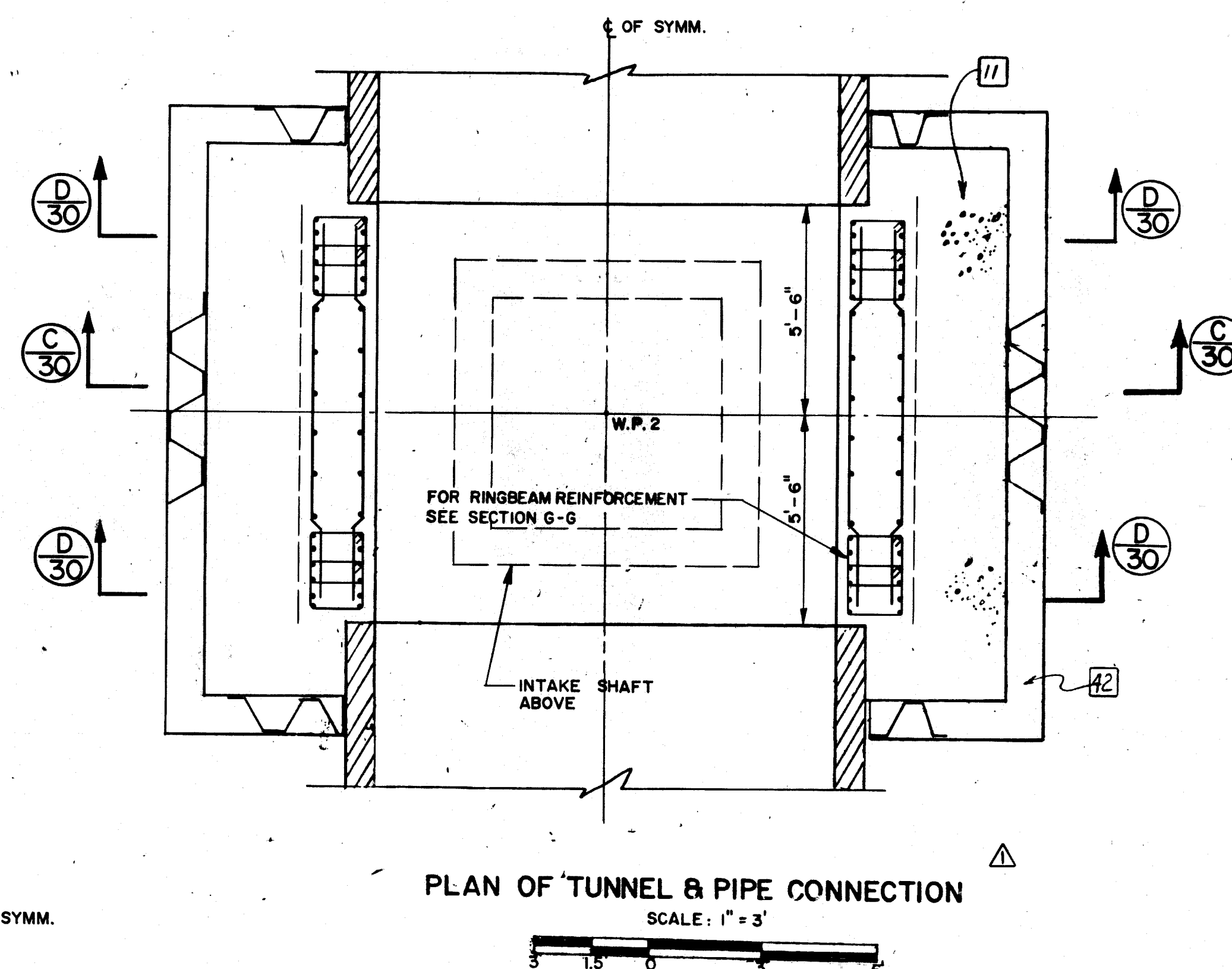
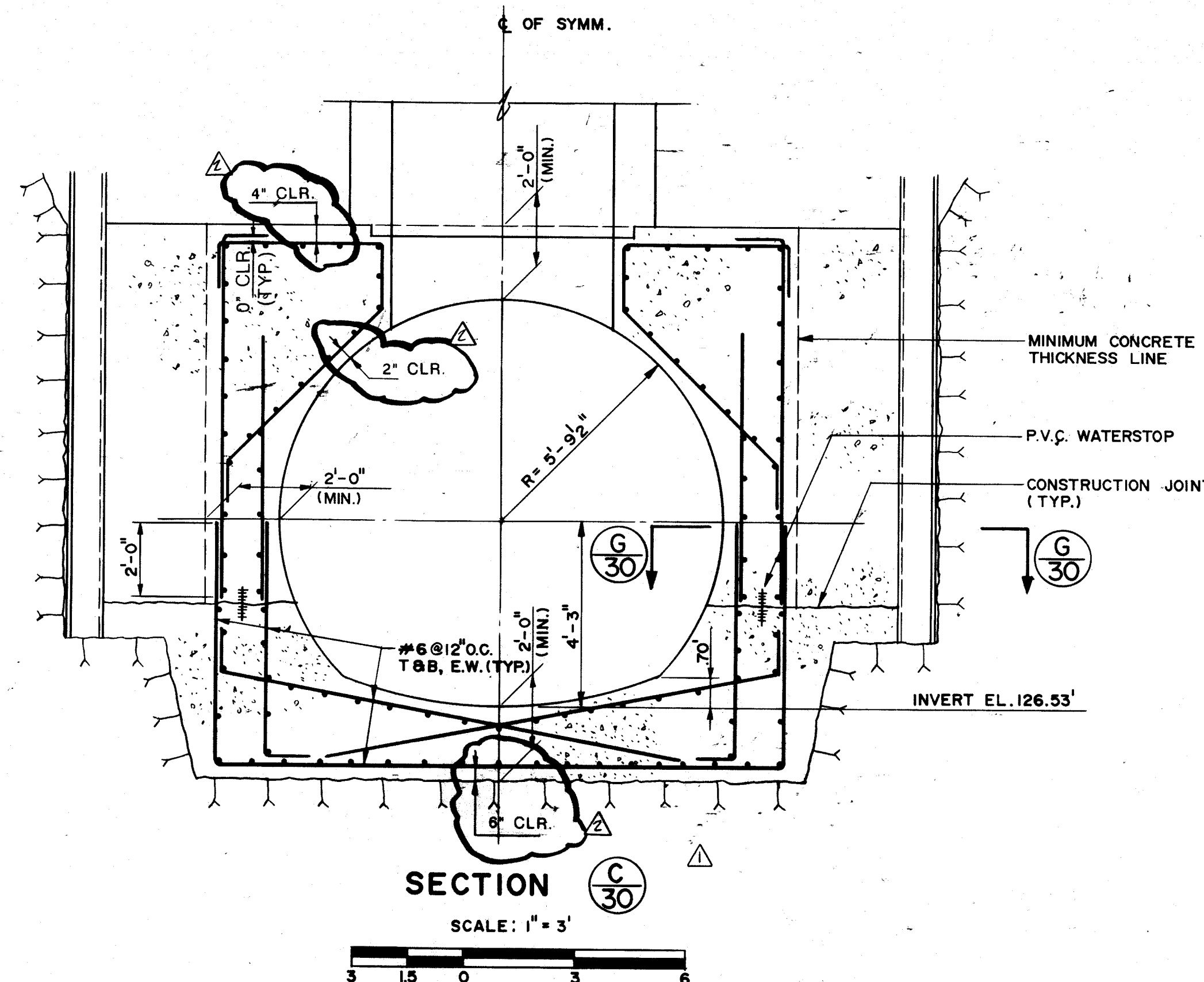
NOTE:
STAINLESS STEEL PLATE
TYPE 304 WITH 2B FINISH
(1) 1/4"x5'-11 3/4"x1'-6"
W/ (5) 9/16" HOLES
FIELD DRILLED TO SUIT EXPANSION
ANCHOR LOCATION
(5) 1/2" DIA. STAINLESS STEEL BOLTS
PER PLATE W/A MIN. EMBEDMENT OF
5 3/4"
PLACE 1 BOLT AT EA. CORNER OF THE PLATE
W/A MIN. 1'-0" CLEARANCE FROM EDGES
AND 1 BOLT AT THE CENTER OF THE PLATE.
UPSET BOLT THREADS TO PREVENT LOOSENING
OF NUTS.

- STRUCTURAL STEEL NOTES:
- ALL STRUCTURAL STEEL INCLUDING CONNECTIONS EXCEPT COLD FORMED STEEL SHALL CONFORM TO STANDARD SPECIFICATION OF ASTM A-36.
 - ALL STEEL DETAILS AND CONNECTIONS SHALL BE IN ACCORDANCE WITH THE REQUIREMENT OF THE AISC SPECIFICATIONS ADOPTED IN 1978.
 - ALL WELDING SHALL BE PERFORMED BY QUALIFIED WELDERS IN ACCORDANCE WITH AWS SPECIFICATIONS LATEST EDITIONS. ALL WORKING ELECTRODES SHALL CONFORM TO AWS A5.1, GRADE E-70. BARE ELECTRODES AND GRANULAR FLUX SHALL CONFORM TO AWS A5.17, E-70 AWS FLUX CLASSIFICATION.
 - SHOP AND FIELD CONNECTIONS NOT SPECIFICALLY DETAILED ON THE DRAWINGS SHALL BE BOLTED OR WELDED.
 - SHORING SHALL REMAIN IN PLACE UNTIL CONCRETE HAS ATTAINED ADEQUATE STRENGTH TO WITHSTAND THE SUPERIMPOSED LOADS WITHOUT ANY OVERSTRESS.
 - THE PROVISIONS OF THE AMERICAN CONCRETE INSTITUTE (ACI) BUILDING CODE, ACI 318.83 SHALL APPLY TO THIS STRUCTURE.
 - MIXING, PLACING CURING, ETC. OF CONCRETE SHALL CONFORM TO THE LATEST 1983 CODE ACI SPECIFICATIONS AND STANDARDS.
 - STEEL REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF THE "STANDARD SPECIFICATIONS FOR DEFORMED STEEL BARS FOR CONCRETE REINFORCEMENT". ALL REINFORCEMENT SHALL BE INTERMEDIATE GRADE DEFORMED BILLET STEEL AND SHALL CONFORM TO ASTM A615, GRADE 60.
 - INCLUDE ALL SPACER, CHAIRS, BOLSTERS, TIES AND OTHER DEVICES NECESSARY FOR PROPERLY PLACING, SPACING, SUPPORTING AND FASTENING REINFORCEMENT IN PLACE. (METAL ACCESSORIES SHALL BE GALVANIZED WHERE LEGS WILL BE EXPOSED IN FINISHED CONCRETE SURFACES). ACCESSORIES SHALL CONFORM TO REQUIREMENTS OF THE CONCRETE REINFORCING STEEL INSTITUTE (CRSI) "MANUAL OF STANDARD PRACTICE FOR REINFORCED CONCRETE CONSTRUCTION". CHAIRS AND OTHER ACCESSORIES FABRICATED FROM CONCRETE, CERAMIC OR PLASTIC MAY BE USED IN PLACE OF FERROUS ACCESSORIES WHEN APPROVED BY THE CONTRACTING OFFICER.

- CONCRETE NOTES:
- ALL CONCRETE EXPOSED TO WEATHER SHALL BE AIR ENTRAINED.
 - ALL REINFORCEMENT SHOULD BE SECURELY HELD IN PLACE WHILE PLACING CONCRETE. IF REQUIRED ADDITIONAL BARS OR STIRRUPS SHALL BE PROVIDED BY THE CONTRACTOR TO FURNISH SUPPORT FOR ALL BARS.
 - CONTRACTOR SHALL SUBMIT DRAWINGS SHOWING INTENDED POURING SEQUENCE AND LOCATION OF CONSTRUCTION JOINTS TO THE CONTRACTING OFFICER FOR APPROVAL.

For revisions on this sheet See sheet 30A
REVISION DRAWING
OF WORK AS-BUILT

THE RBA GROUP		U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS NEW YORK, NEW YORK	
Designed by: K.P.V.	Drawn by: F.L.	Checked by: R.M.	Reviewed by: S. A. Smith
Approval Recommended: S. A. Smith	Approval Recommended: S. A. Smith	Approval Recommended: S. A. Smith	Approval Recommended: S. A. Smith
Sheet reference number: CC-ARD-430	Sheet reference number: CC-ARD-430	Sheet reference number: CC-ARD-430	Sheet reference number: CC-ARD-430
Date: 20 JULY 1987	Date: 20 JULY 1987	Date: 20 JULY 1987	Date: 20 JULY 1987
Scale: AS SHOWN	Scale: AS SHOWN	Scale: AS SHOWN	Scale: AS SHOWN
Sheet 30A of 40	Sheet 30A of 40	Sheet 30A of 40	Sheet 30A of 40

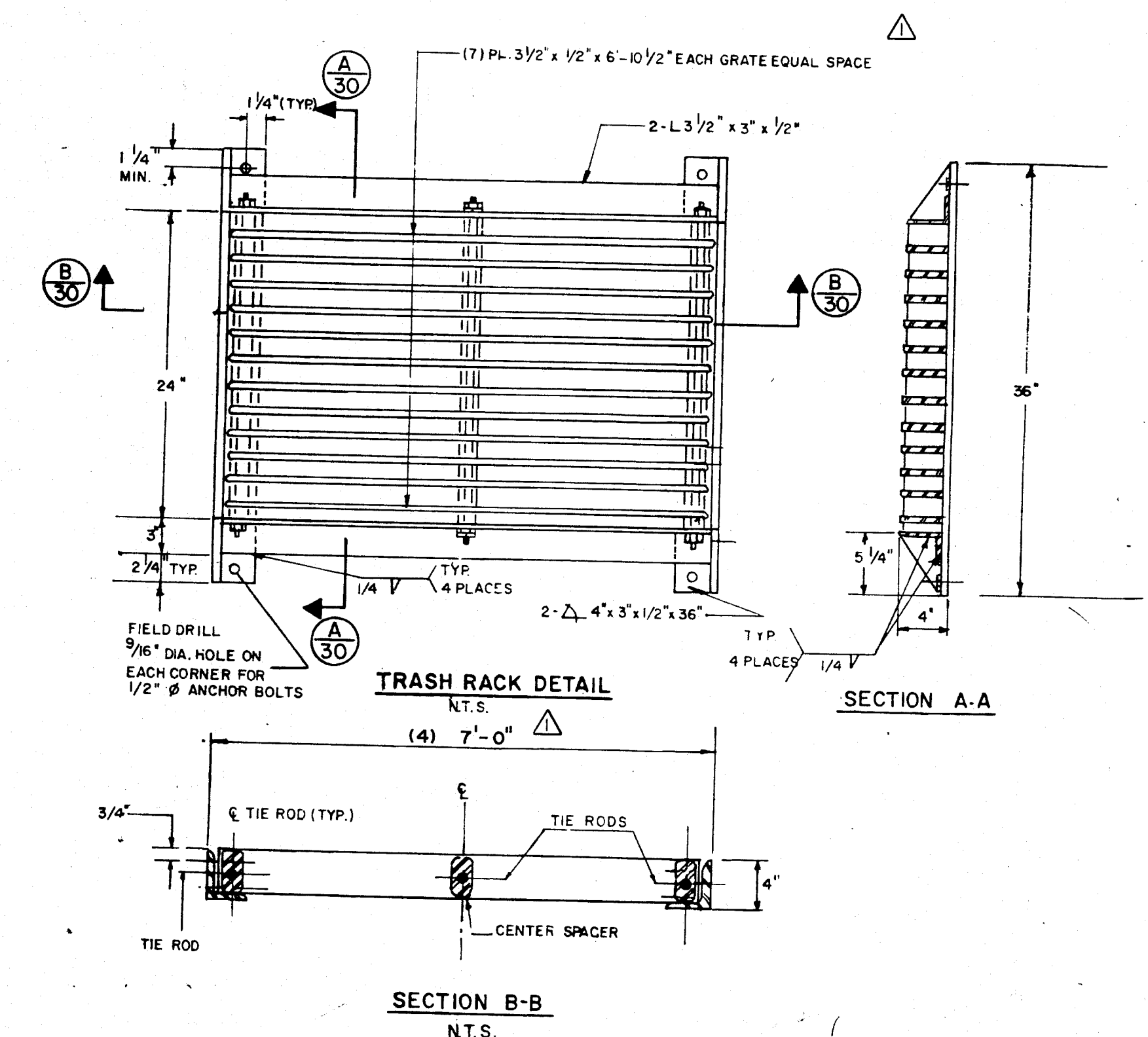


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RECORD DRAWING
OF WORK AS-BUILT

3/10/90 Value Engineering Sheet 30A added as-built	D.S.
1-12-89 ADDED CLEAR COVER FOR REINF.	A.L.R.
0-6-88 VALUE ENGINEERING PROPOSAL	M.G.M.
REVISION	DATE
PREPARED BY: M.G. McLaren, P.C. CONSULTING ENGINEERS 10 PINE CREST RD. VALLEY COTTAGE, NY 10989	CONTRACTOR: ECCO III ENTERPRISES YONKERS, NEW YORK
DEPARTMENT OF THE ARMY NEW YORK DISTRICT CORPS OF ENGINEERS NEW YORK, NEW YORK	
DRAWN BY: M.E.F. W.Y.C.	SAW MILL RIVER, NEW YORK
CHECKED BY: M.G.M.	VALUE ENGINEERING PROPOSAL
DESIGNED BY: A.L.R.	ARDSLEY FLOOD CONTROL PROJECT
REVIEWED:	BLOW-OFF TUNNEL
SECTION CHIEF: ARDSLEY	SECTIONS
SUBMITTED:	RECOMMENDED:
ACT. CHIEF, DESIGN BRANCH	CHIEF ENGINEERING DIVISION
APPROVED:	SCALE: AS SHOWN
COLONEL C.E. DISTRICT ENGINEER	DRAWING NUMBER CC-ARD-430 SHEET 32 OF 41
DATE:	