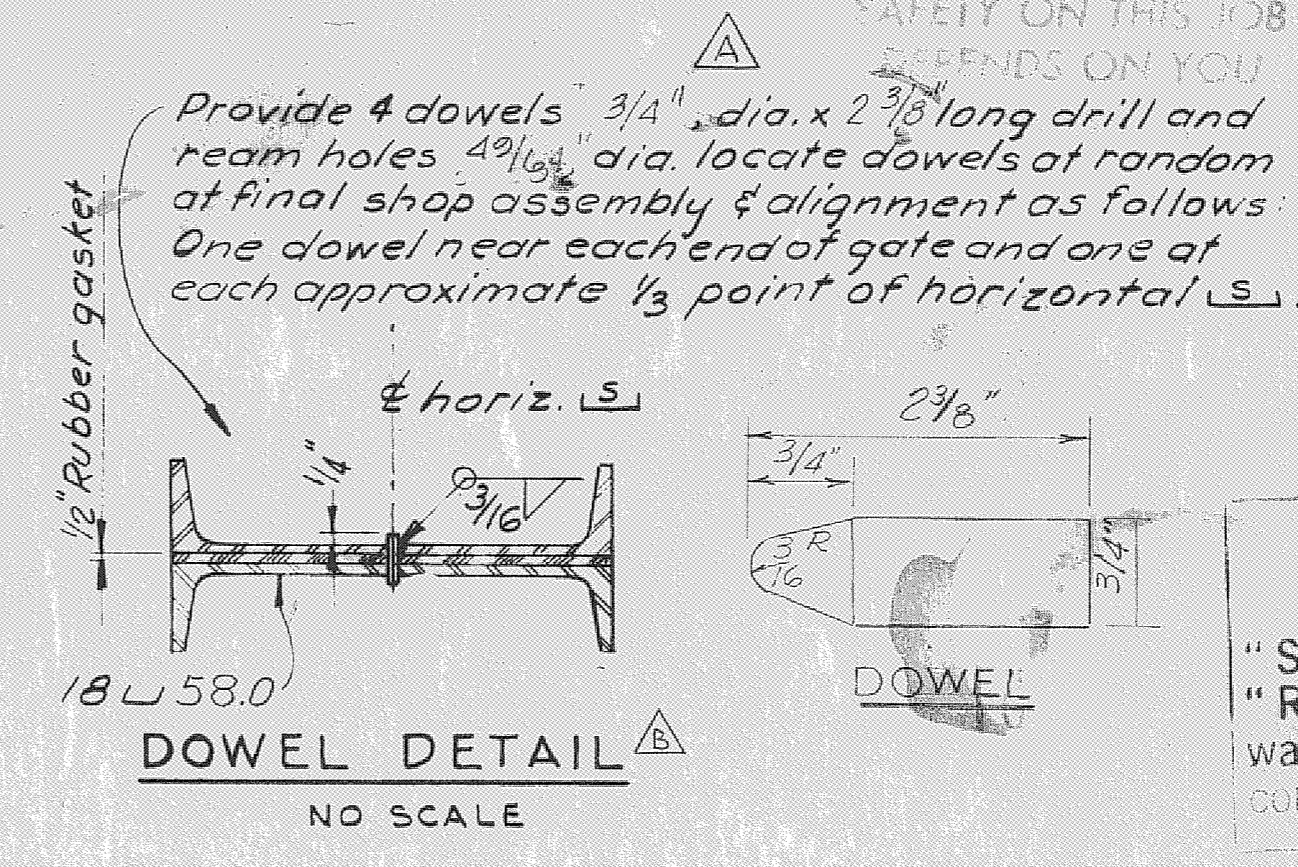
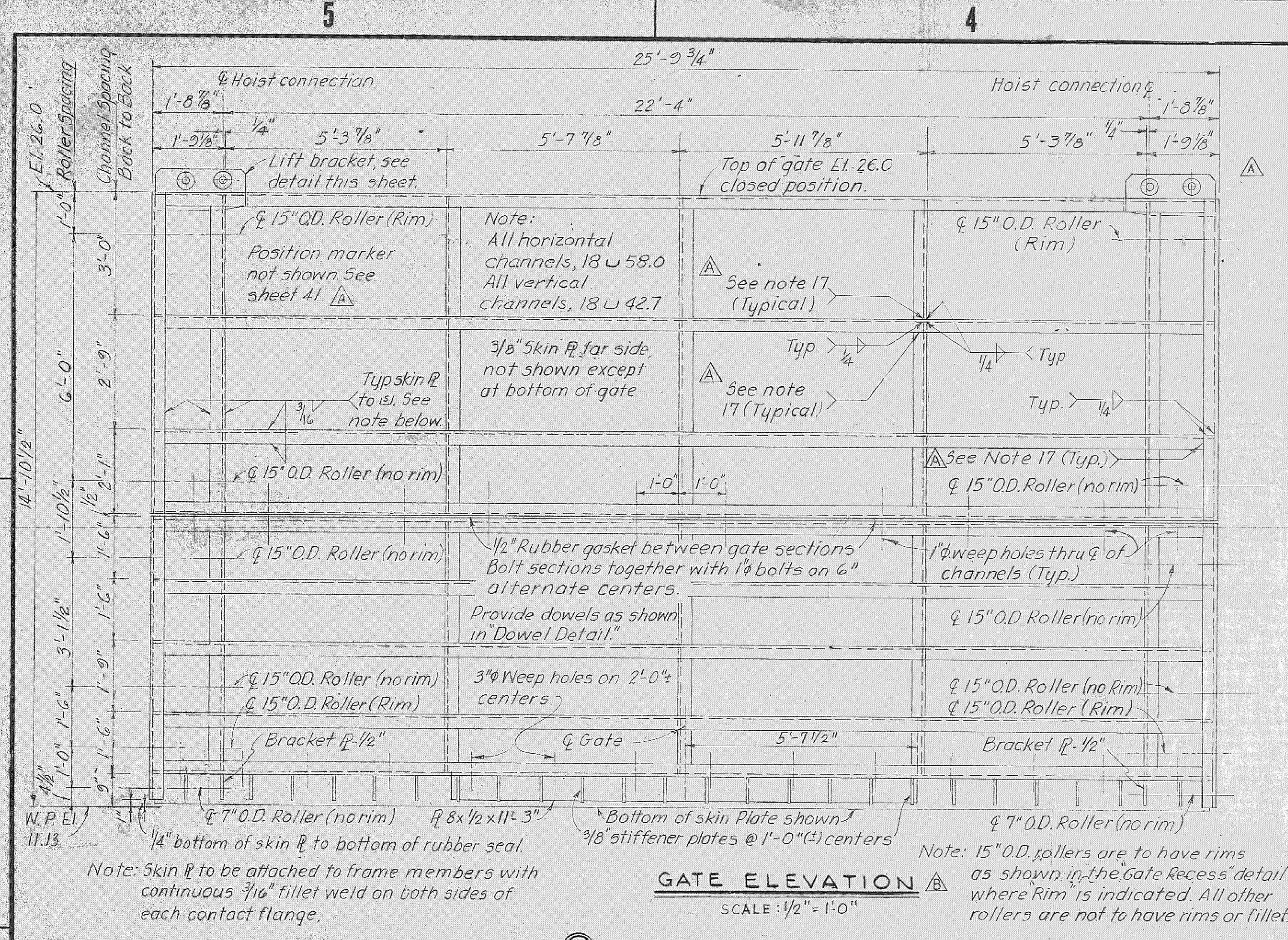
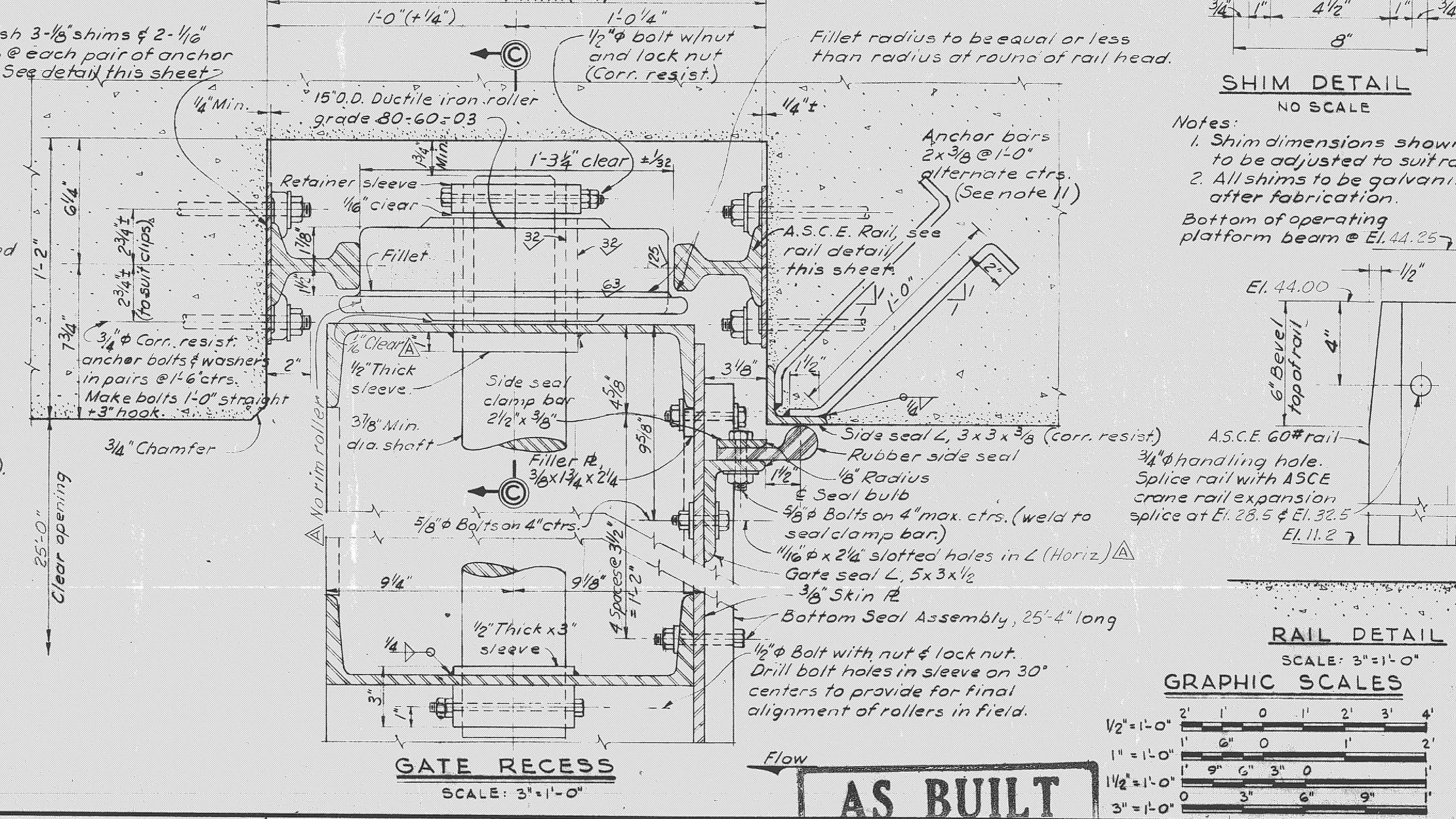
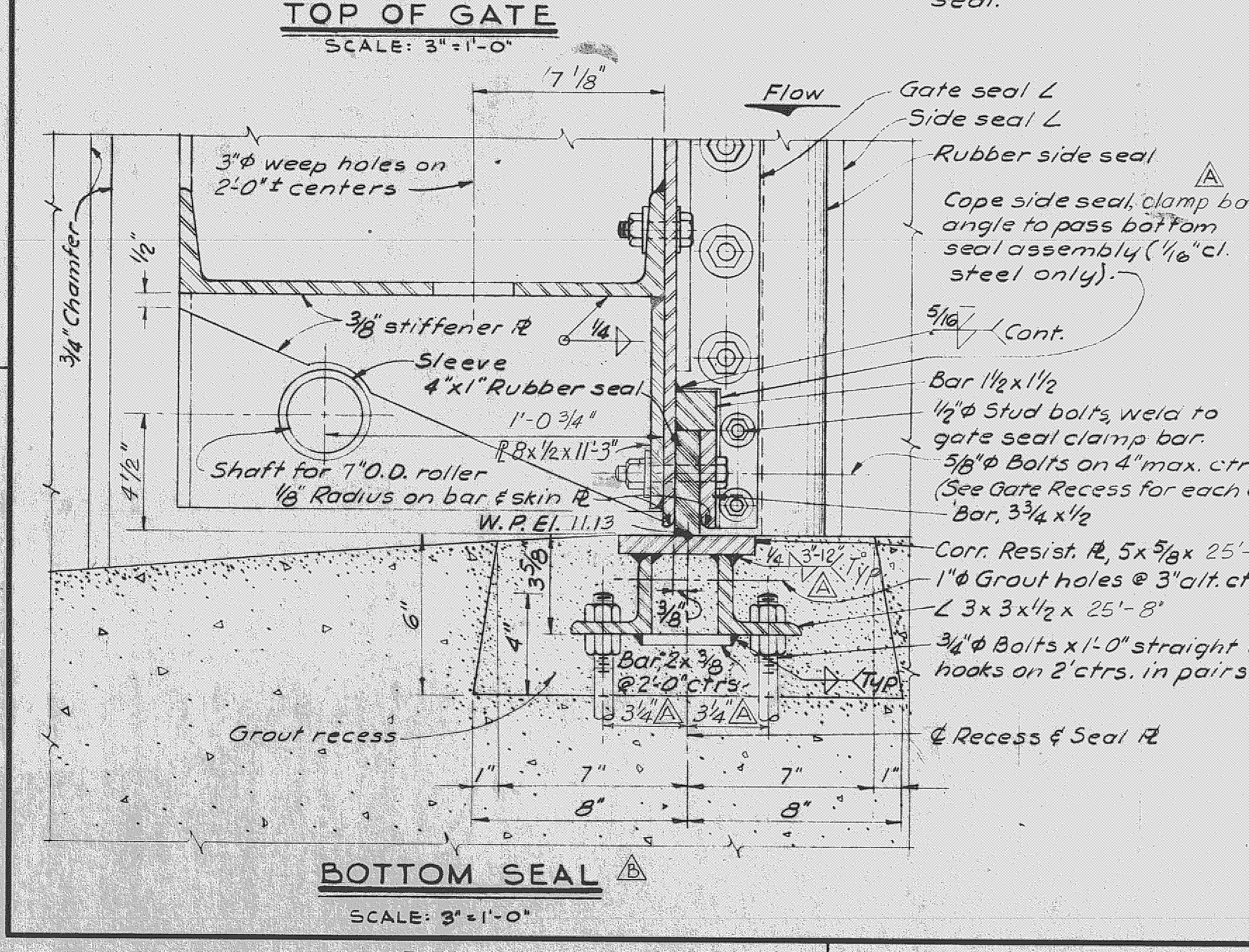
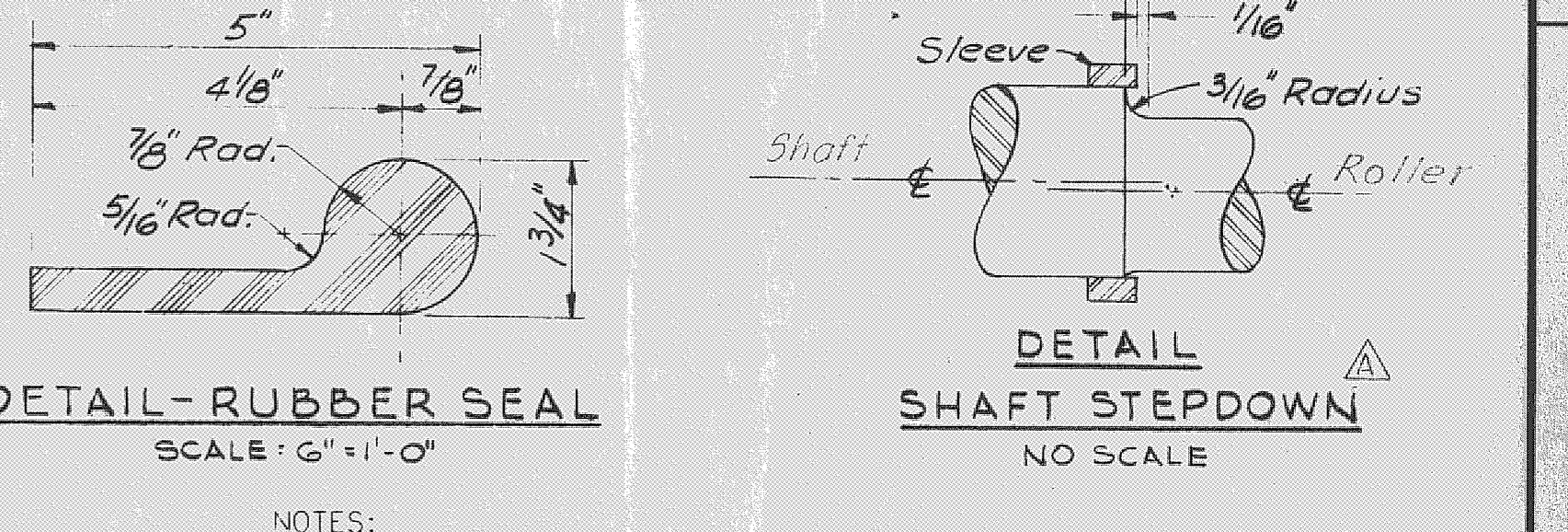
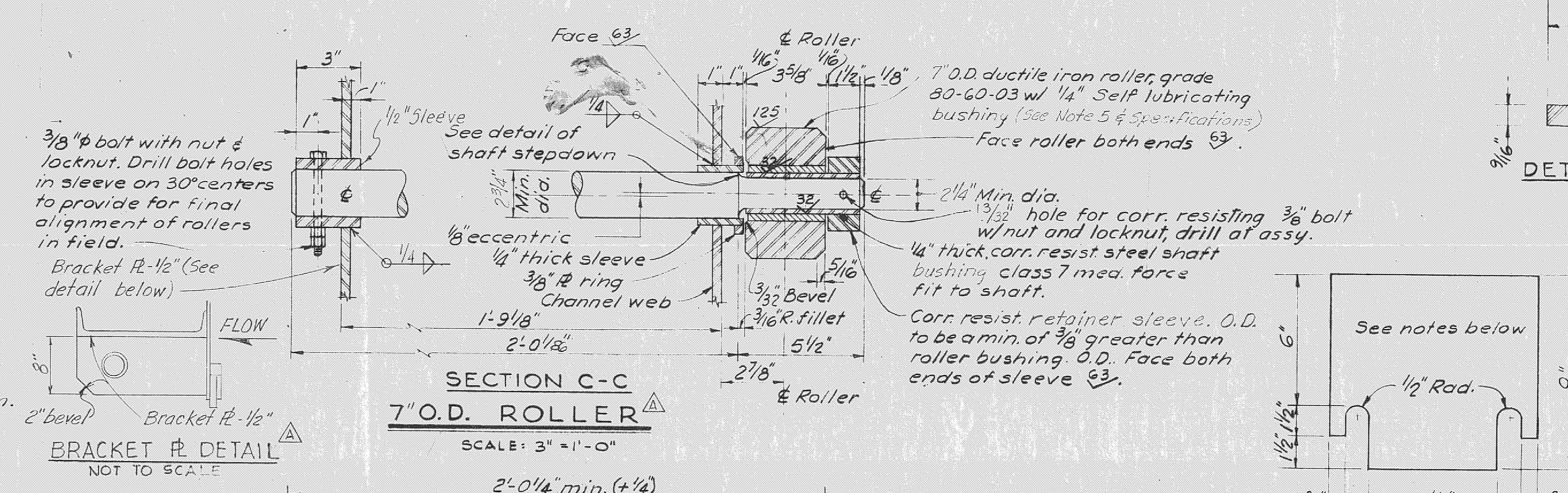
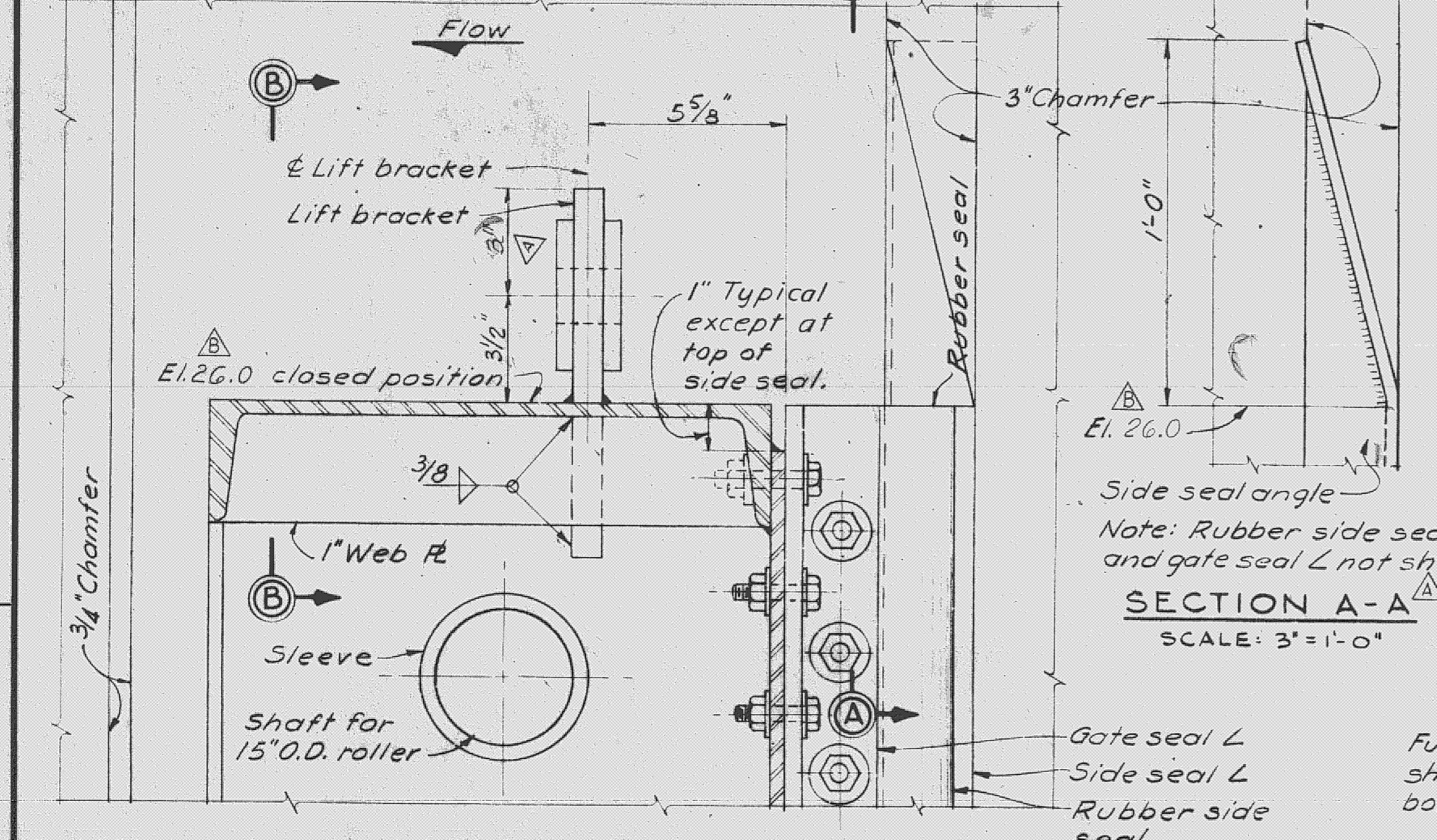
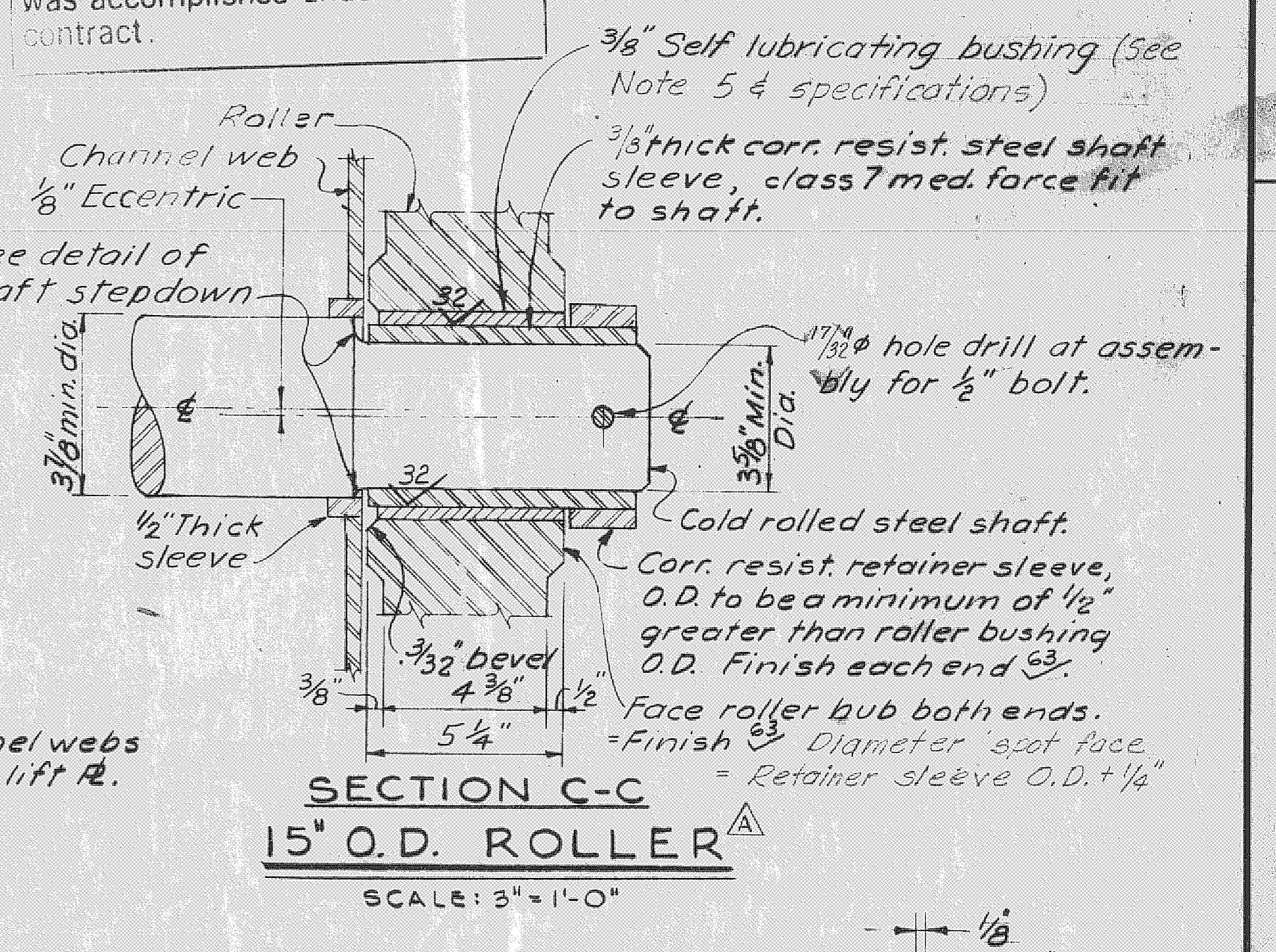
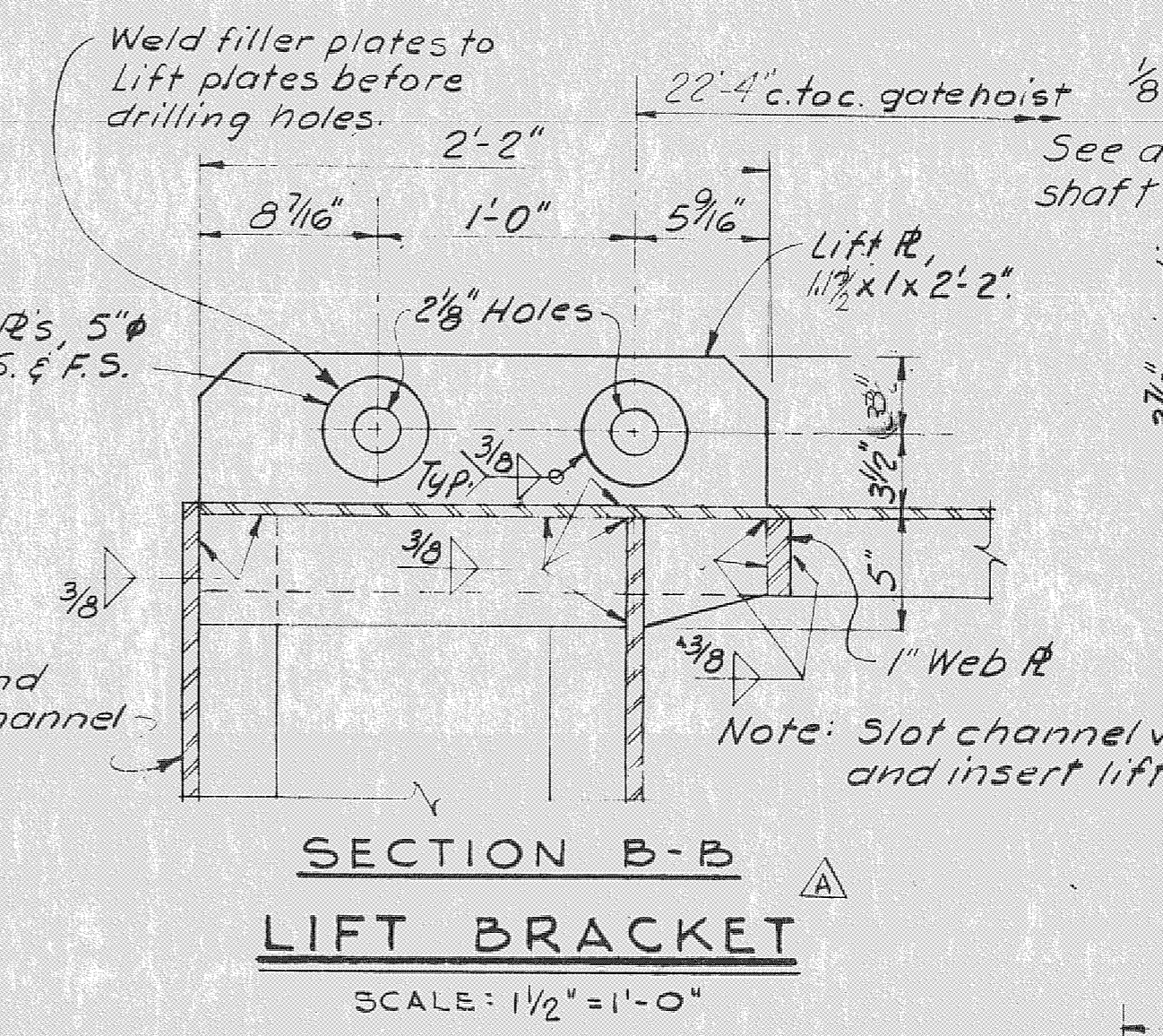


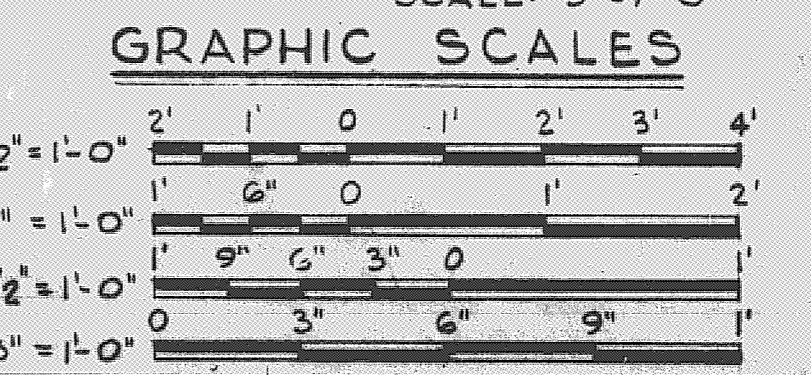
REVISIONS					
NO.	SYM.	ZONE	DESCRIPTION	DATE	APPROVED
23	Δ		REVISED TO CONFORM TO AMENDMENT NO 2	5-12-66	WJG
5	Δ		REVISED GATE TO ACCOMPANY MOD. TO CONT. 66-109	7-2-66	WJG



RECORD DRAWING NOTE
 "Shall be," "Provide," "Install," "Remove," etc., indicates work was accomplished under the contract.



- NOTES:**
- ALL MATERIAL STRUCTURAL STEEL, UNLESS OTHERWISE NOTED.
 - ALL MATERIAL NOTED ON THIS SHEET AS CORROSION RESISTING SHALL BE CORROSION RESISTING STEEL, TYPE 304 OR 410, UNLESS SPECIFIED OTHERWISE.
 - IRREGULARITIES AND THE PLANE OF THE EXPOSED SURFACES OF EMBEDDED METAL SEALS IN CONTACT WITH THE RUBBER SEALS SHALL NOT VARY MORE THAN 1/16" FROM POSITIONS SHOWN.
 - SHIMS INDICATED TO BE FURNISHED ARE TO BE INSTALLED, AS REQUIRED, TO OBTAIN NECESSARY CLEARANCES.
 - THE ROLLER BUSHING I.D. IS TO BE 1/4" GREATER THAN THE SHAFT BUSHING O.D.
 - OPTIONS ON EMBEDDED METAL SEALS ARE AS FOLLOWS:
 (A) THE 3/8" THICK CORROSION RESISTING SIDE SEAL ANGLES MAY BE REPLACED WITH 1/2" THICK BENT CHROME CLAD PLATES.
 (B) THE 5/8" THICK CORROSION RESISTING BOTTOM SEAL PLATES MAY BE REPLACED WITH 5/8" THICK CHROME CLAD PLATES.
 - ALL BOLTS, NUTS, AND WASHERS (EXCEPT CORROSION RESISTING STEEL) SHALL BE GALVANIZED.
 - ALL GALVANIZED ITEMS SHALL BE GALVANIZED AFTER FABRICATION.
 - SEE SPECIFICATIONS FOR QUALITY OF FINISH REQUIRED BY SYMBOLS 25, 32, AND 53.
 - FURNISH AND INSTALL TWO GATES COMPLETE, AS DETAILED ON THIS SHEET.
 - AT THE OPTION OF THE CONTRACTOR, 5/8" x 5/8" OR EQUAL ANCHOR STUDS MAY GENERALLY BE SUBSTITUTED FOR 2" x 3/8" ANCHOR BARS. HOWEVER, SPECIFIC APPROVAL OF THE SUBSTITUTION FOR EACH INDIVIDUAL EMBEDDED ITEM IS REQUIRED PRIOR TO FABRICATION.
 - POSITION INDICATORS ARE REQUIRED ON THE PIER AND THE ABUTMENT AT THE SOUTH END OF EACH GATE.
 - SPACE ALL BOLTS CONNECTING RUBBER SEAL ASSEMBLIES TO THE GATE SUCH THAT BOLTS FALL ON THE GAGE LINE OF THE FRAMING MEMBERS. 1/4" BEVEL WASHERS SHALL BE FURNISHED AT BOLTED CONNECTIONS TO ALL CHANNEL FLANGES.
 - FOR POSITION INDICATORS AND POSITION MARKERS, SEE SHEET 41.
 - THE O.D. OF SHAFT SLEEVES AND THE I.D. OF THE ROLLER BUSHINGS TO BE FINISHED. REMOVE ALL SHARP CORNERS.
 - ALL BOLTS SHALL BE FURNISHED WITH ONE SHAF AND WASHER UNLESS OTHERWISE NOTED.
 - COMPLETE PENETRATION FLUSH WELDED JOINT REQUIRED. SEE NOTE 18.
 - UNLESS OTHERWISE SHOWN OR SPECIFIED, ALL STRUCTURAL AND MISCELLANEOUS STEEL JOINTS (BUTT, TEE, AND CORNER JOINTS) SHALL BE COMPLETE PENETRATION WELDED JOINTS IN ACCORDANCE WITH THE PROVISIONS OF SPECIFICATIONS FOR WELDED HIGHWAY AND RAILWAY BRIDGES, A.W.S. D2-0-63.



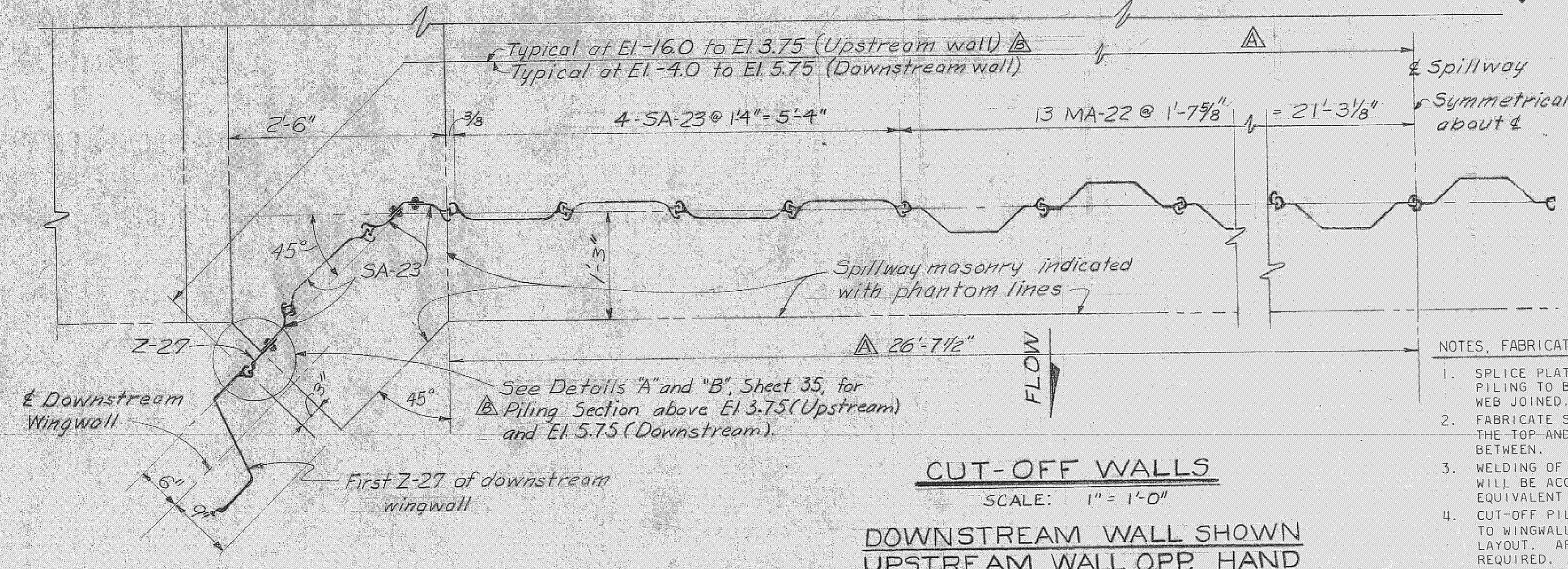
AS BUILT

U. S. ARMY ENGINEER DISTRICT, JACKSONVILLE
 CORPS OF ENGINEERS
 JACKSONVILLE, FLORIDA

CENTRAL AND SOUTHERN FLORIDA PROJECT
 FOR FLOOD CONTROL AND OTHER PURPOSES
 CANAL 54, SECTION 2
 STRUCTURE-96
 GATES

HW. NO. CIV. ENG. 08-125-66-86
 DATE: 28 APRIL 1966
 SCALE: AS SHOWN
 SHEET 36 OF 72

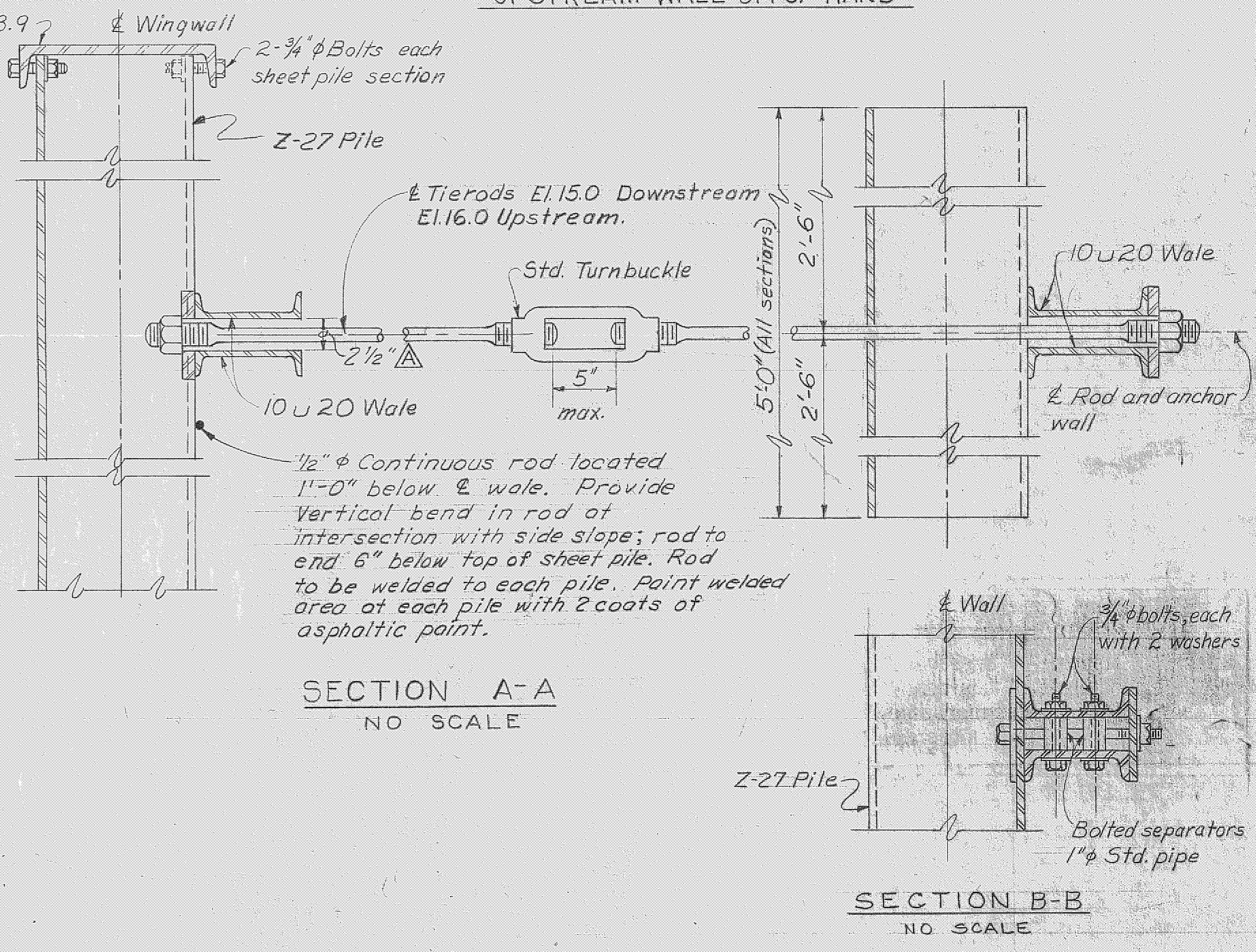
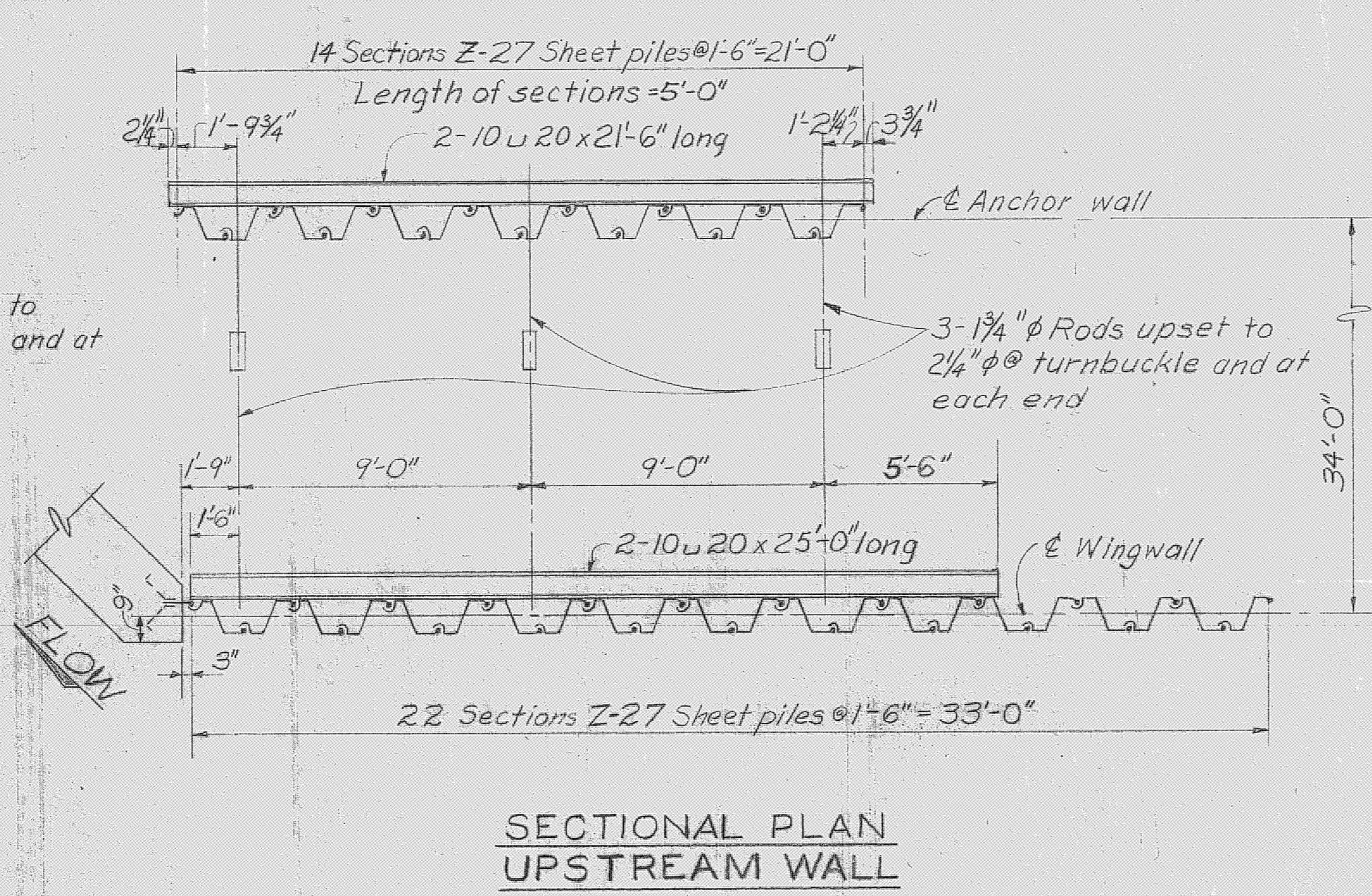
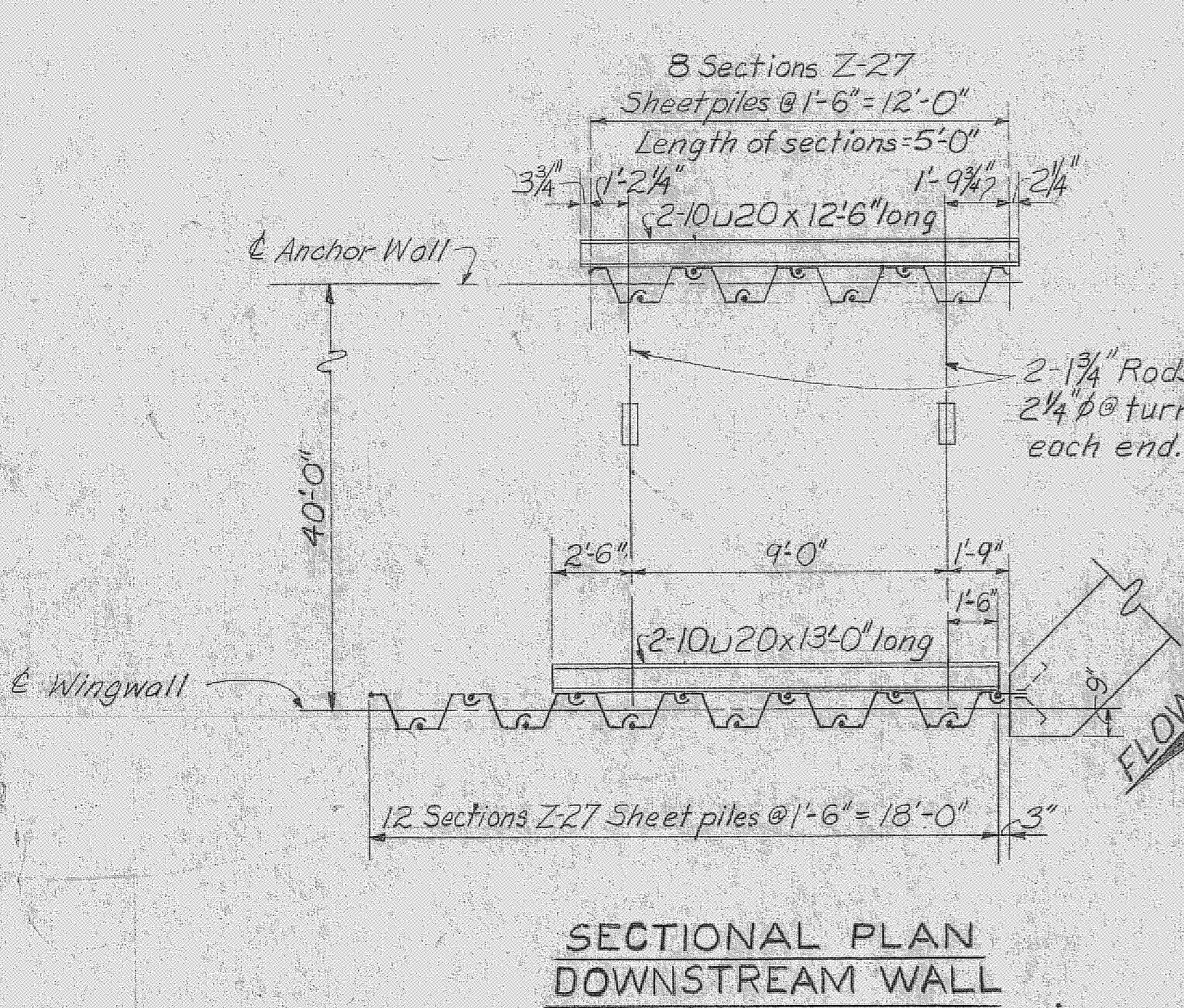
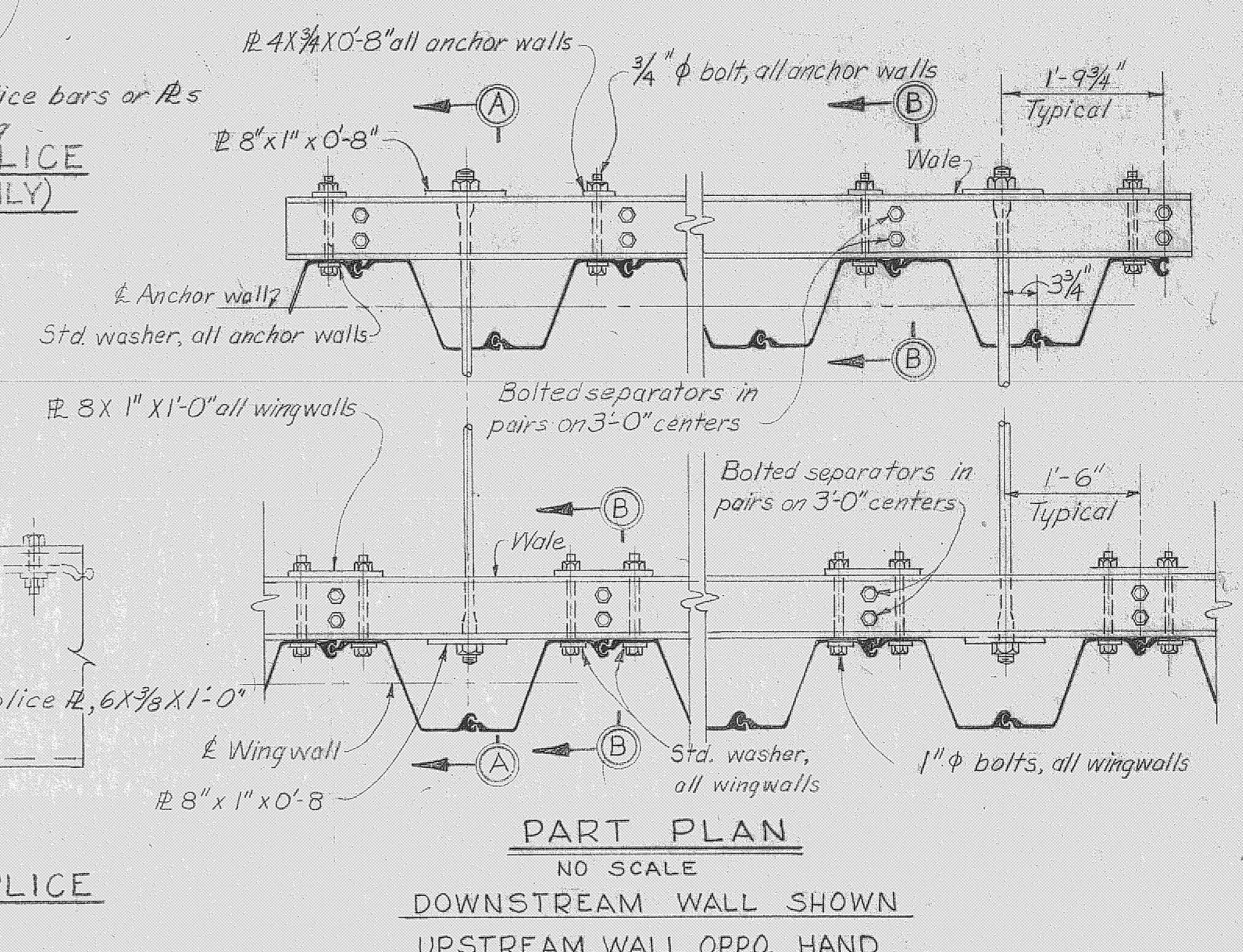
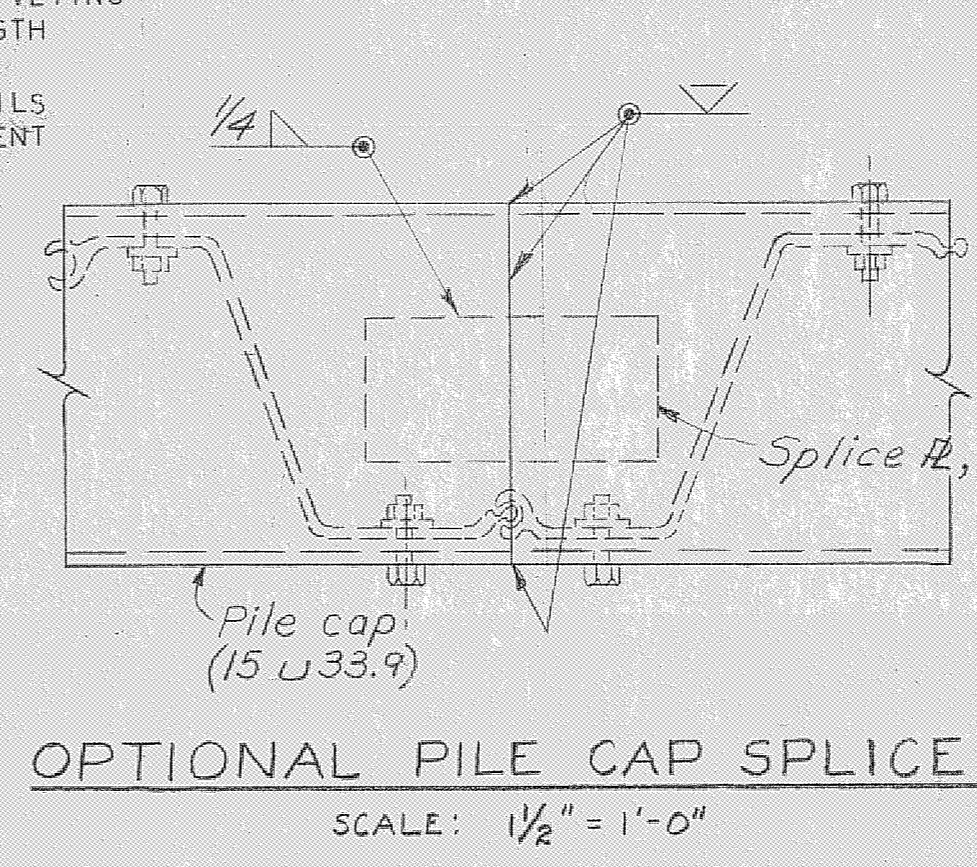
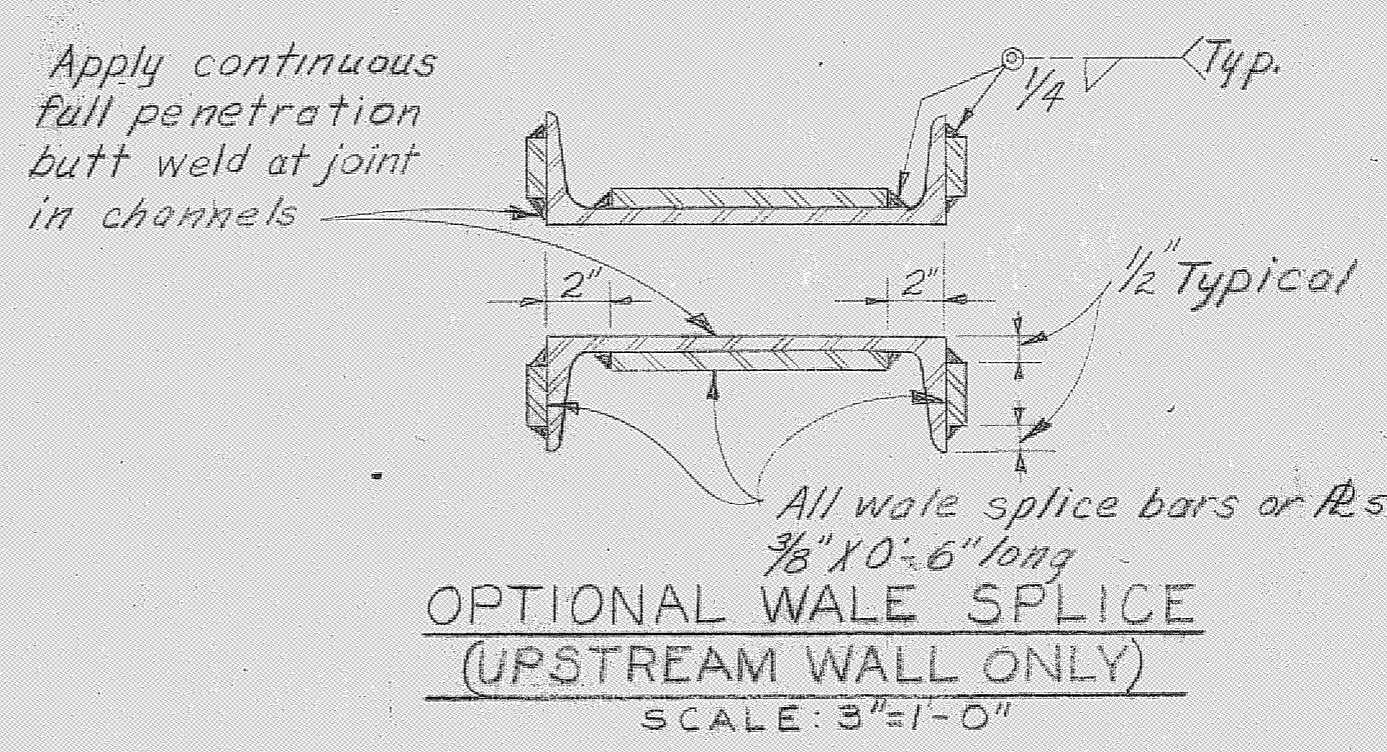
REVISIONS					
NO.	SYM.	ZONE	DESCRIPTION	DATE	APPROVED
4	A		REVISED TO CONFORM TO AMENDMENT NO. 2	5/16/66	WCR
2	A		REVISED UPSTREAM CUTOFF WALL ELEV. TO ACCOMPANY	8/24/66	WCR
			REF. TO CONTRACT NO. CIV. ENG. 212-6		



CUT-OFF WALLS
 SCALE: 1" = 1'-0"

DOWNSTREAM WALL SHOWN UPSTREAM WALL OPP. HAND

- NOTES, FABRICATED PILING SECTIONS:
1. SPLICE PLATES AND ANGLES USED ON FABRICATED SECTIONS OF PILING TO BE EQUAL IN THICKNESS TO THE THICKEST PILING WEB JOINED.
 2. FABRICATE SECTIONS W/7/8" \emptyset RIVETS SPACED AT 3" CTRS. AT THE TOP AND BOTTOM 2' OF THE SECTION AND SPACED AT 6" CTRS. BETWEEN.
 3. WELDING OF FABRICATED SECTION OF PILING IN LIEU OF RIVETING WILL BE ACCEPTED IF WELDS ARE SIZED TO PROVIDE STRENGTH EQUIVALENT TO REQUIRED RIVETS AT INDICATED SPACING.
 4. CUT-OFF PILING LAYOUT AND FABRICATED CONNECTION DETAILS TO WINGWALLS SHOWN ABOVE MAY BE VARIED TO AN EQUIVALENT LAYOUT. APPROVAL BY THE CONTRACTING OFFICER IS REQUIRED.

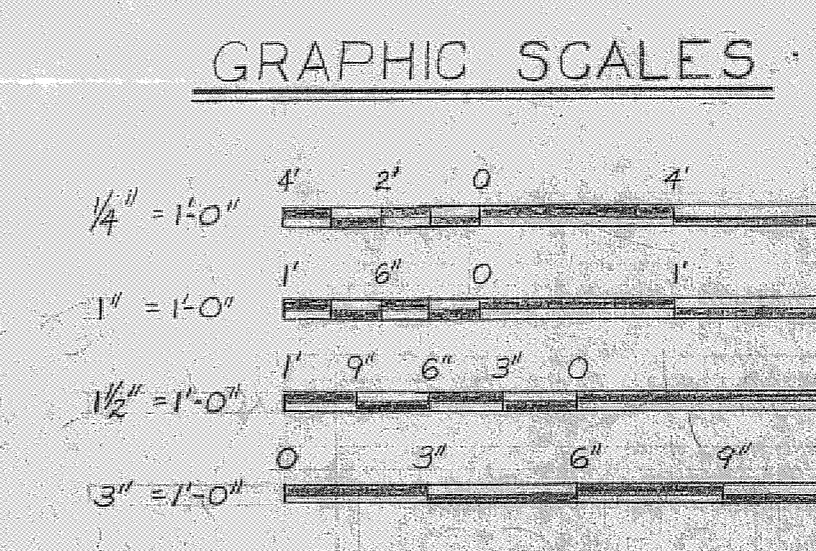
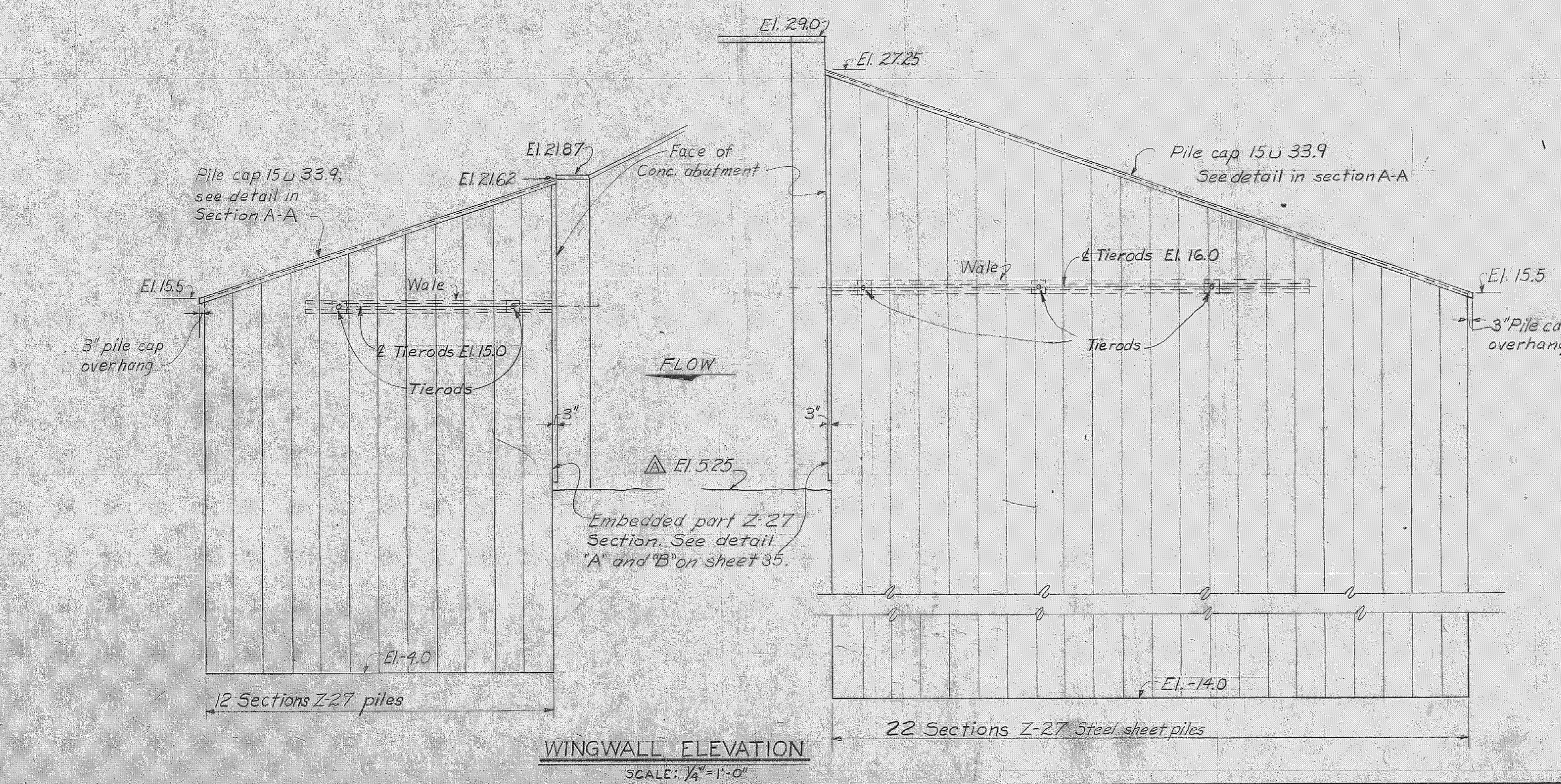


- NOTES:
1. ALL MATERIAL STRUCTURAL STEEL, UNLESS OTHERWISE NOTED.
 2. ALL BOLTS SHALL BE FURNISHED WITH ONE NUT AND WASHER, UNLESS OTHERWISE INDICATED. ALL BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED.
 3. ALL GALVANIZED ITEMS TO BE GALVANIZED AFTER FABRICATION.

RECORD DRAWING NOTE

"Shall be," "Provide," "Install," "Remove," etc., indicates work was accomplished under the contract.

AS BUILT



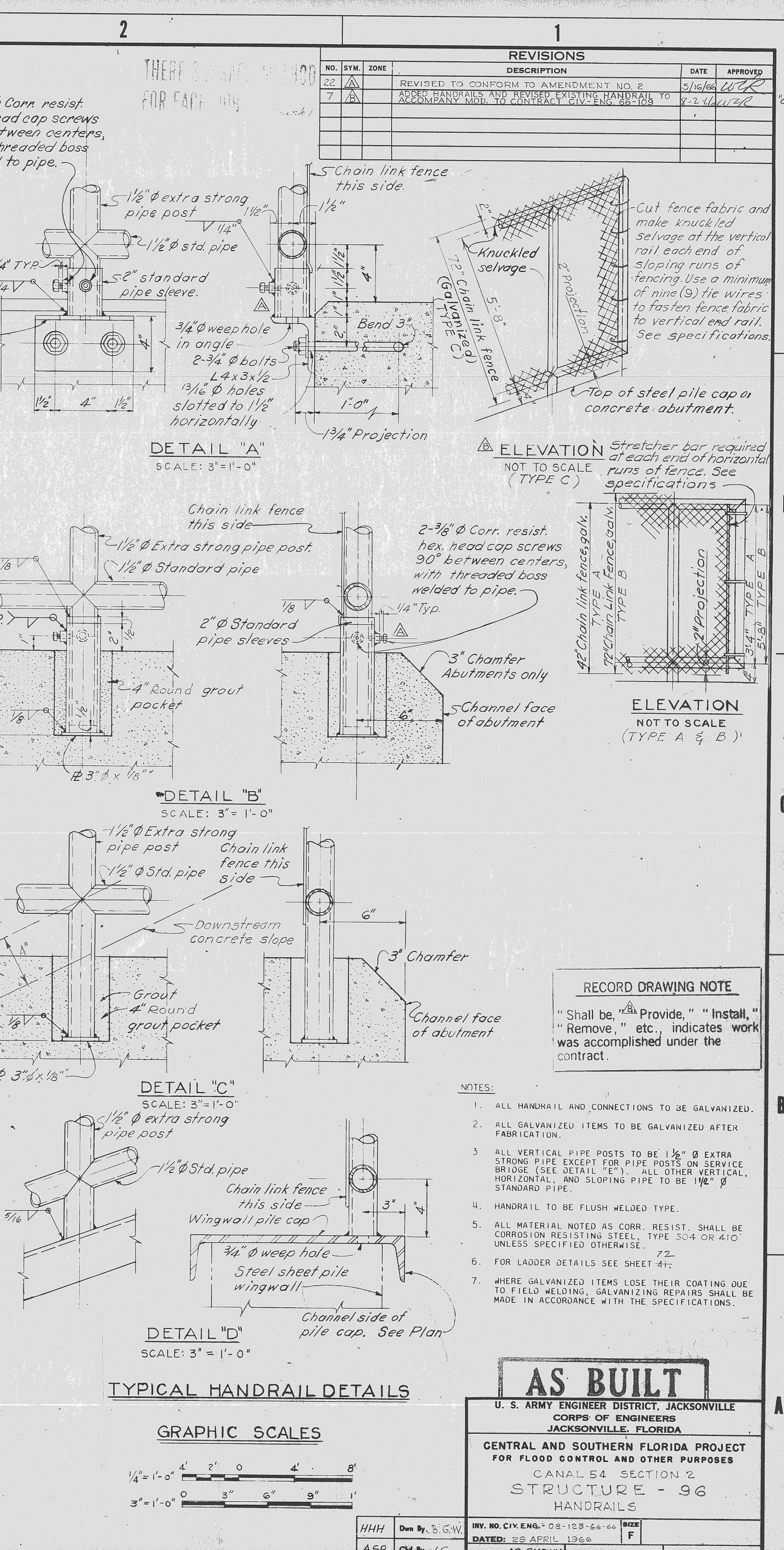
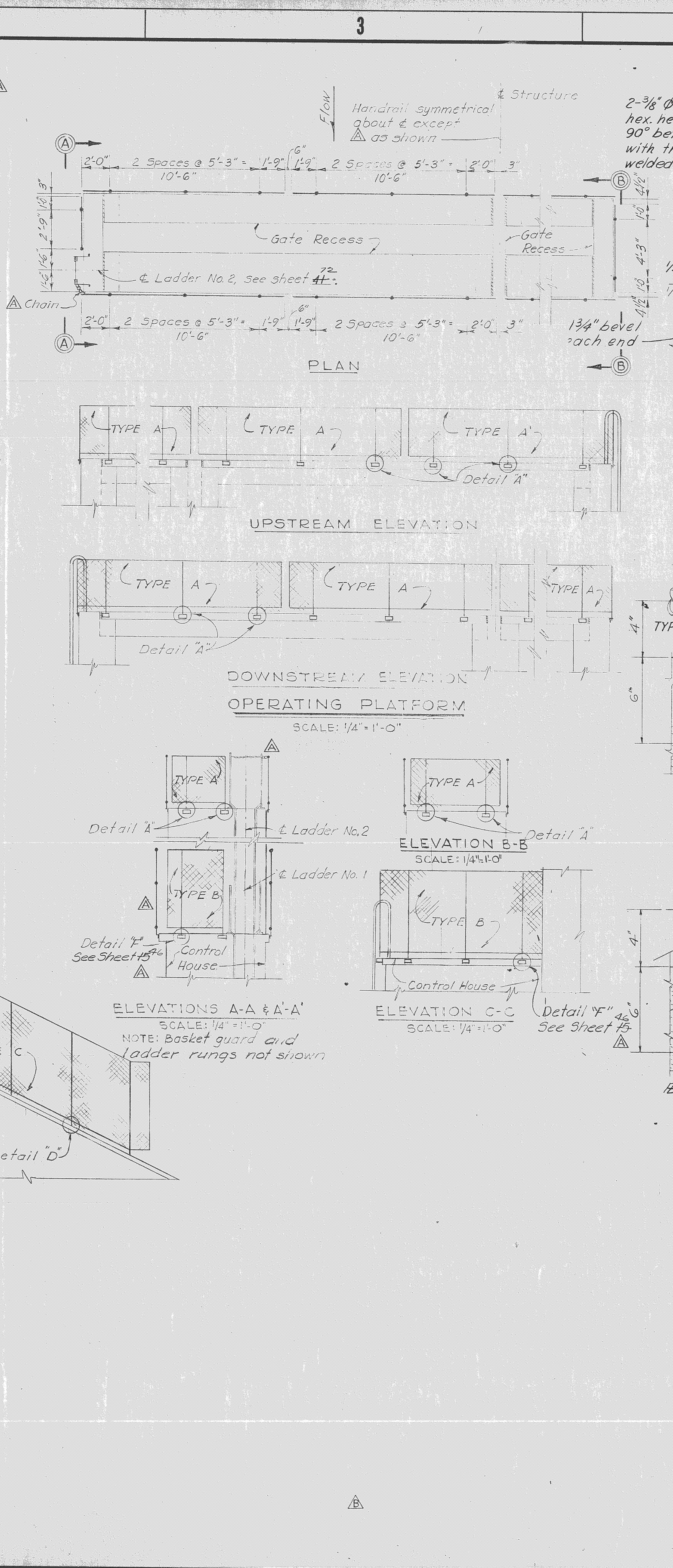
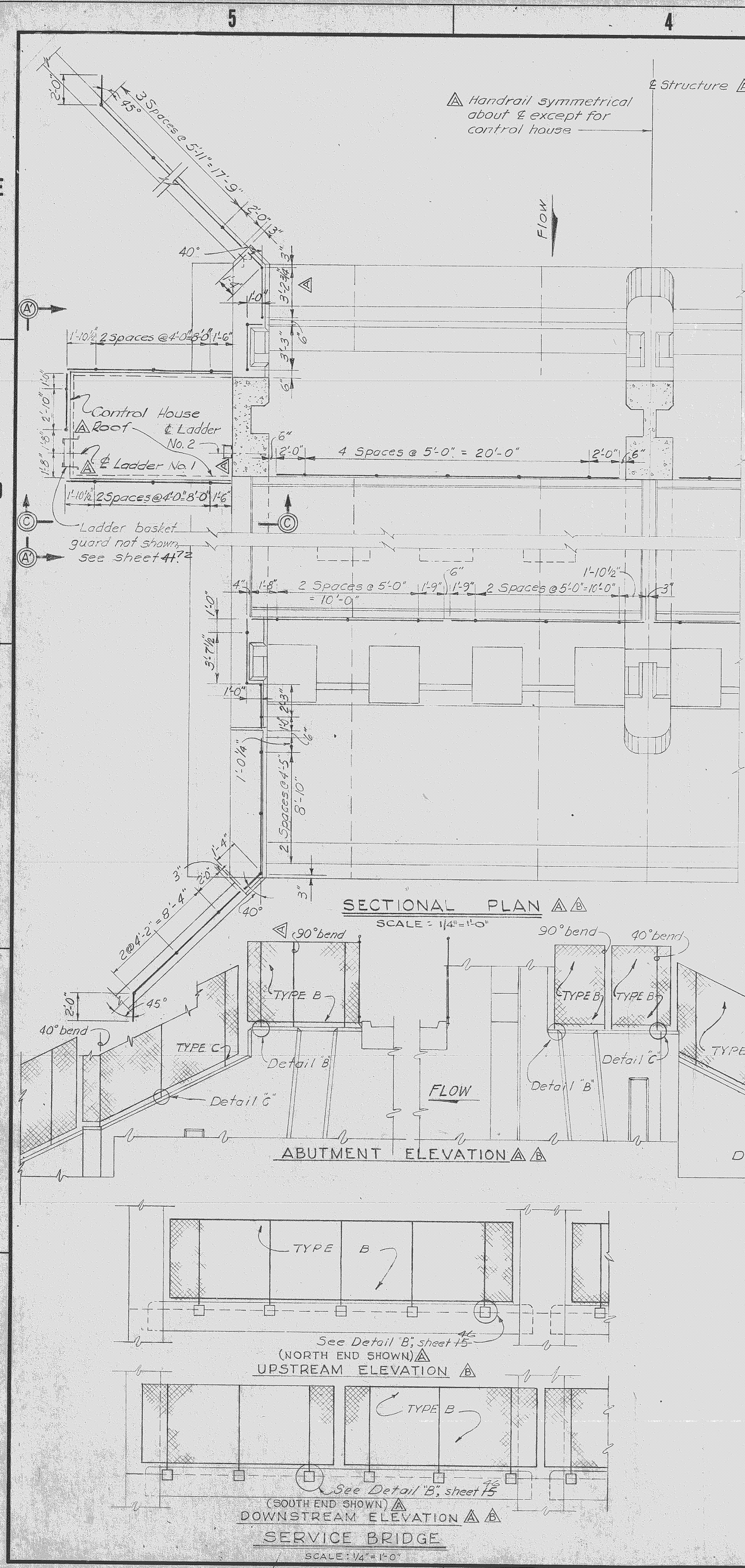
U. S. ARMY ENGINEER DISTRICT, JACKSONVILLE
 CORPS OF ENGINEERS
 JACKSONVILLE, FLORIDA

CENTRAL AND SOUTHERN FLORIDA PROJECT
 FOR FLOOD CONTROL AND OTHER PURPOSES

CANAL 54, SECTION 2
STRUCTURE-96
 WINGWALLS

DATE: 28 APRIL 1966
 SCALE: AS SHOWN DATED: APRIL 1966 SHEET 39 OF 72

D. O. FILE NO. 496-29-370-496-30,952



REVISIONS					
NO.	SYM.	ZONE	DESCRIPTION	DATE	APPROVED
22			REVISED TO CONFORM TO AMENDMENT NO. 2	5/16/66	W.C.R.
7			ADDED HANDRAILS AND REVISED EXISTING HANDRAILS TO ACCOMPANY MOD. TO CONTRACT CIV. ENG. 56-103	2-21-66	W.C.R.

RECORD DRAWING NOTE
 "Shall be," "Provide," "Install," "Remove," etc., indicates work was accomplished under the contract.

- NOTES:
- ALL HANDRAIL AND CONNECTIONS TO BE GALVANIZED.
 - ALL GALVANIZED ITEMS TO BE GALVANIZED AFTER FABRICATION.
 - ALL VERTICAL PIPE POSTS TO BE 1 1/2" Ø EXTRA STRONG PIPE EXCEPT FOR PIPE POSTS ON SERVICE BRIDGE (SEE DETAIL "E"). ALL OTHER VERTICAL, HORIZONTAL, AND SLOPING PIPE TO BE 1 1/2" Ø STANDARD PIPE.
 - HANDRAIL TO BE FLUSH WELDED TYPE.
 - ALL MATERIAL NOTED AS CORR. RESIST. SHALL BE CORROSION RESISTING STEEL, TYPE 304 OR 410 UNLESS SPECIFIED OTHERWISE.
 - FOR LADDER DETAILS SEE SHEET 41.
 - WHERE GALVANIZED ITEMS LOSE THEIR COATING DUE TO FIELD WELDING, GALVANIZING REPAIRS SHALL BE MADE IN ACCORDANCE WITH THE SPECIFICATIONS.

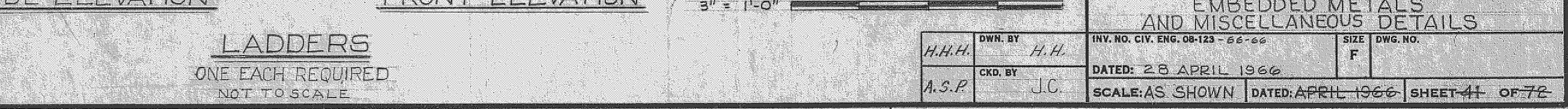
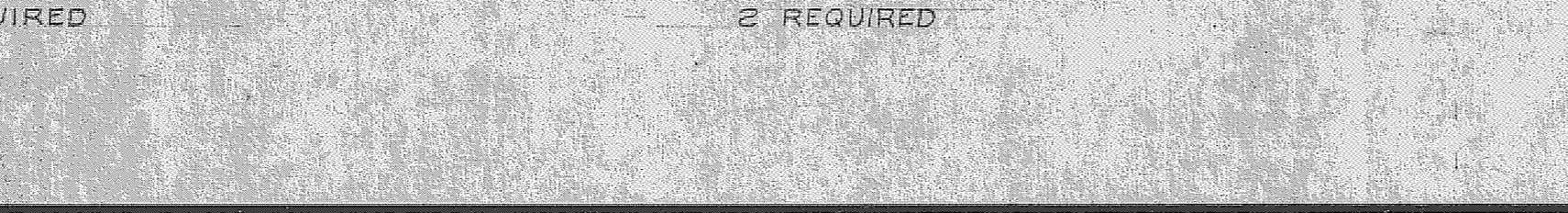
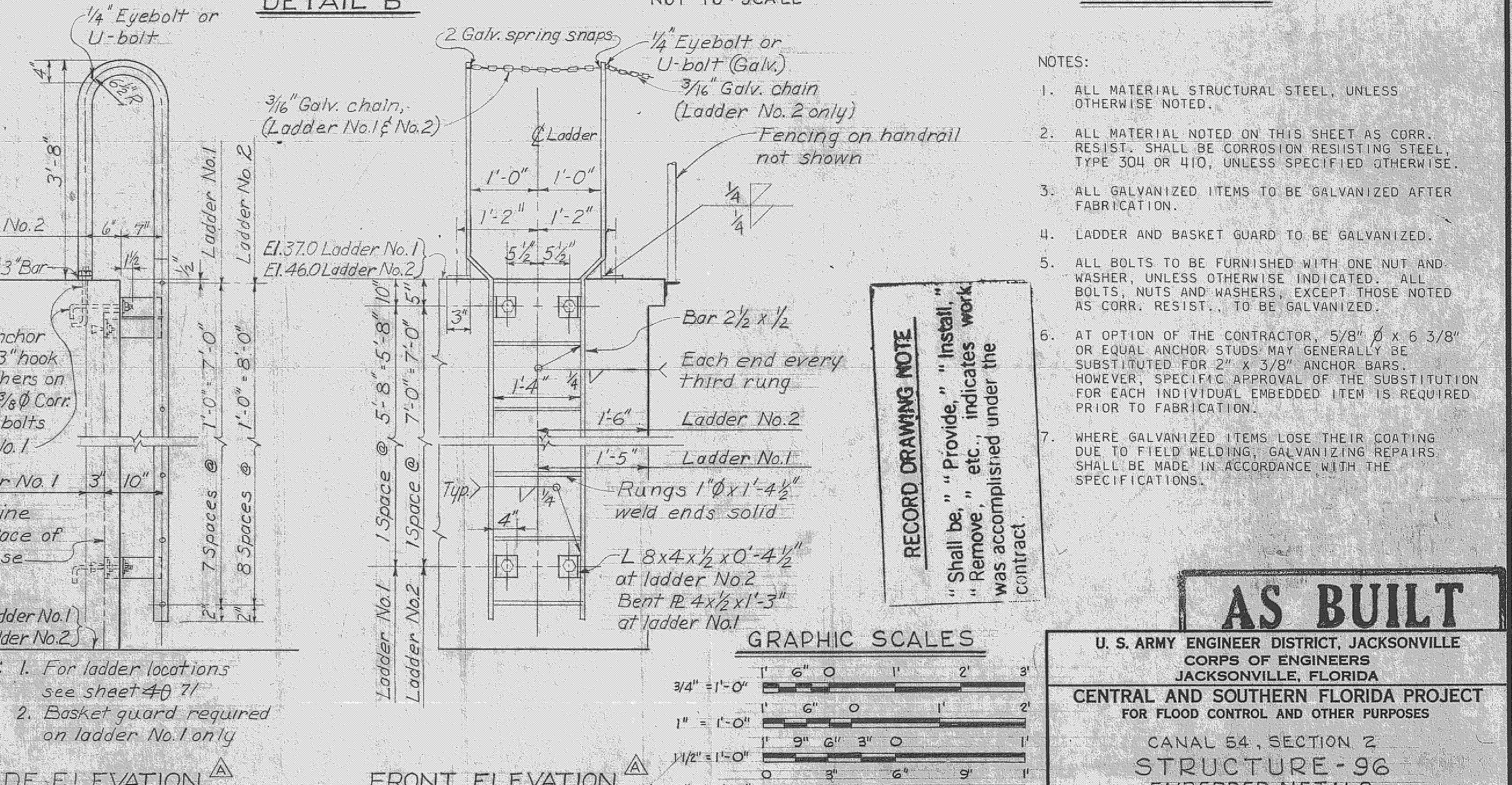
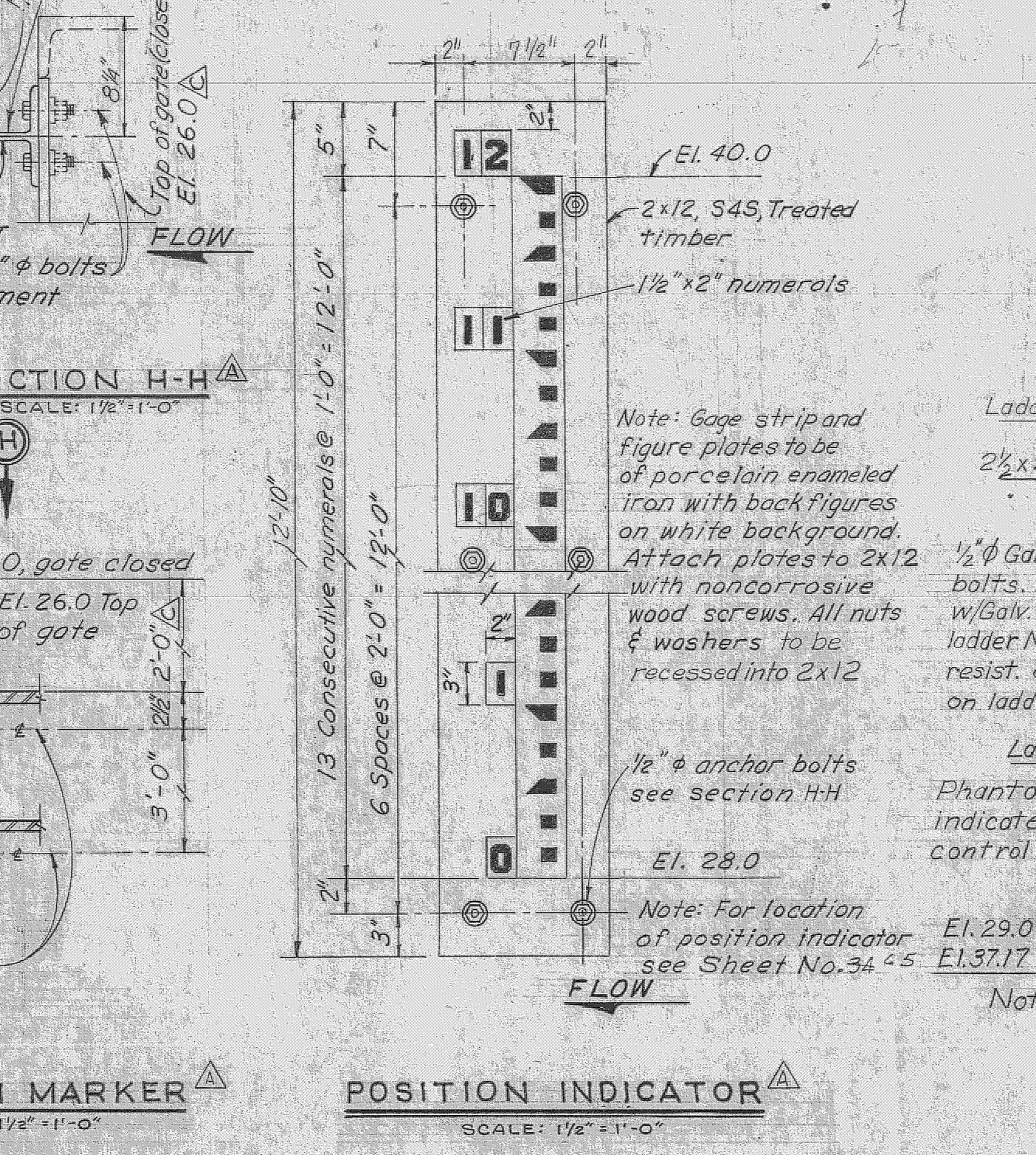
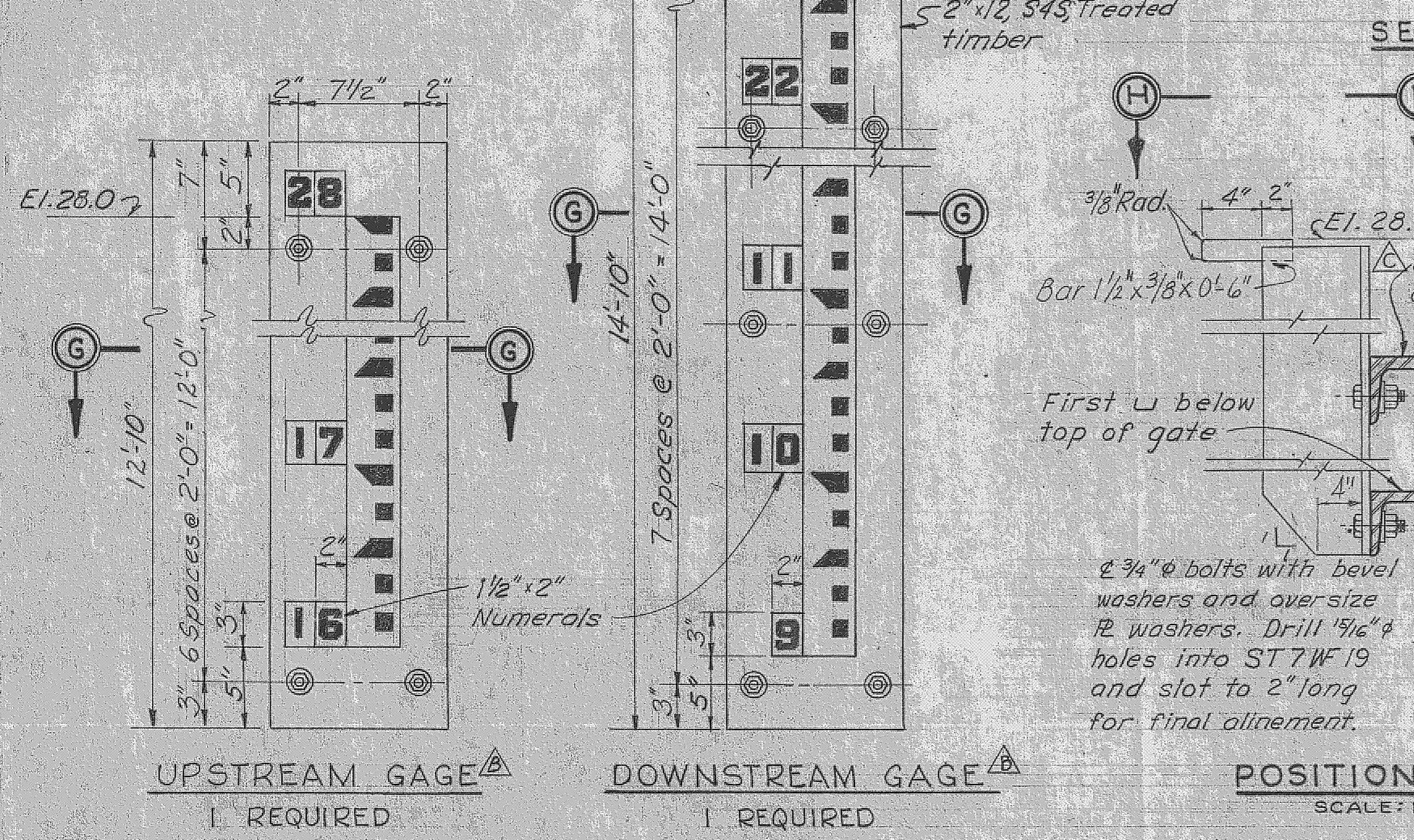
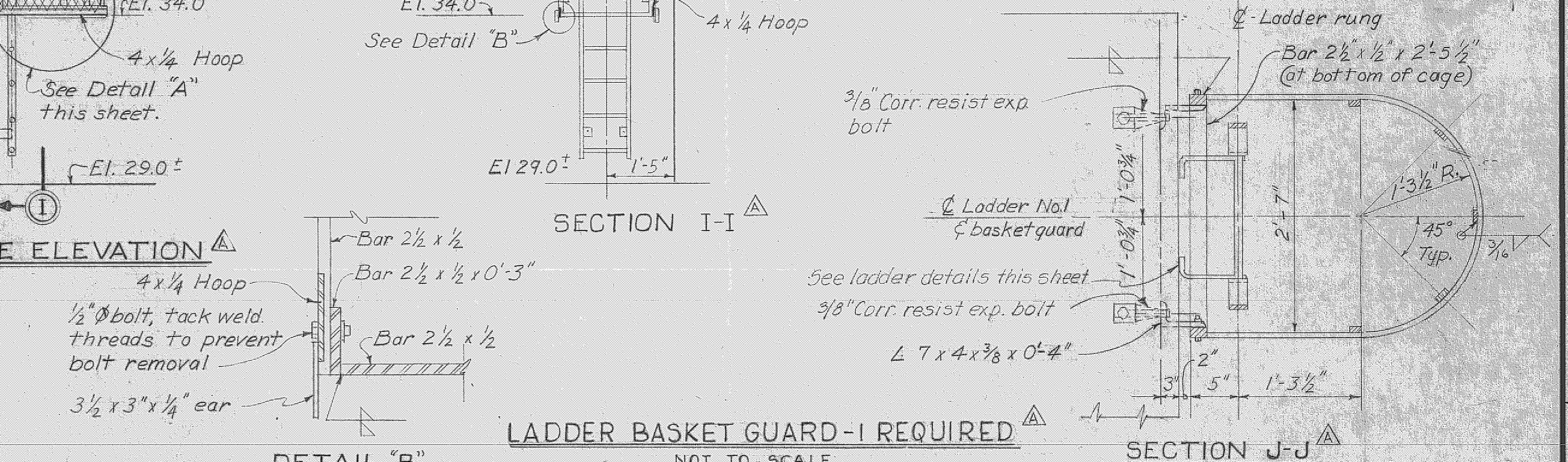
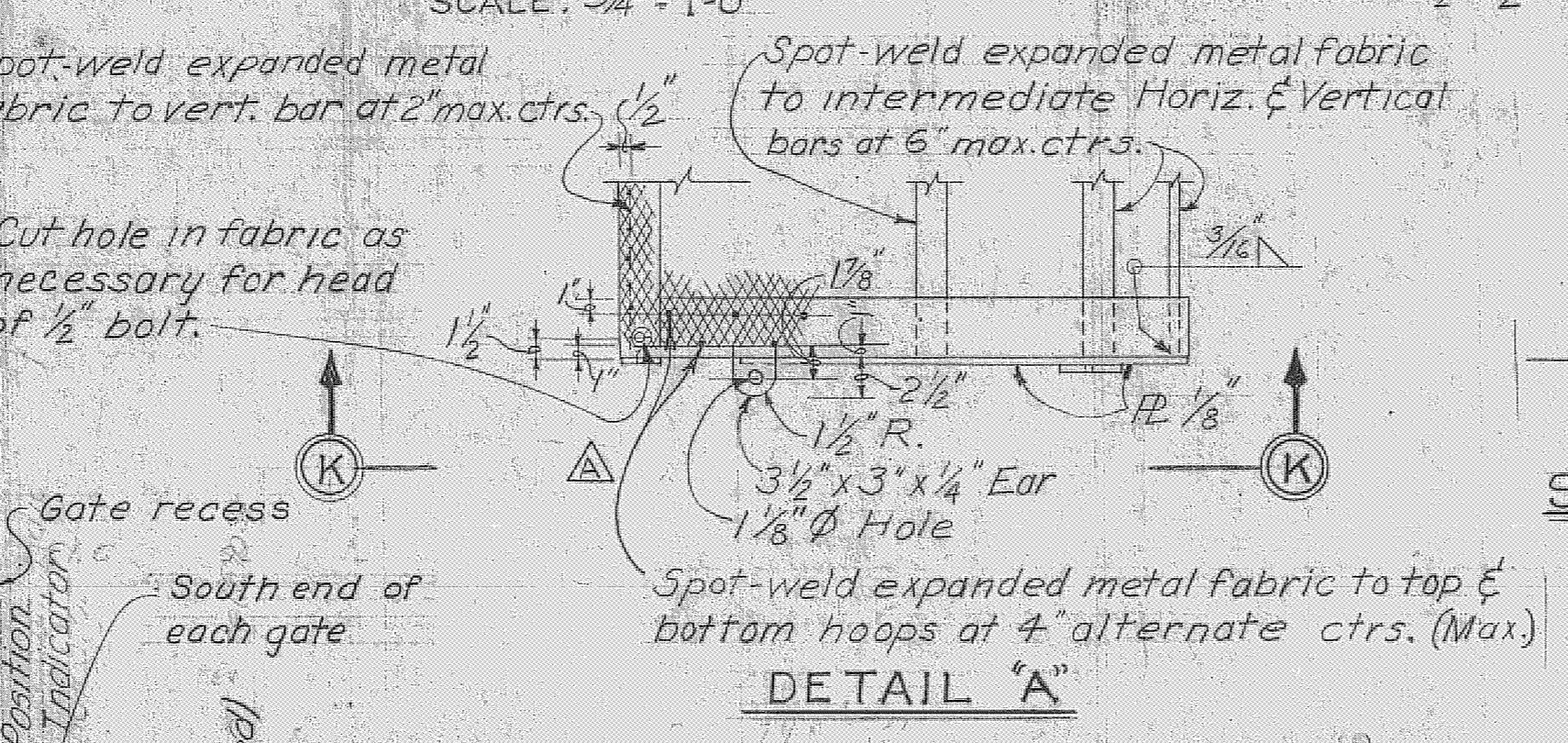
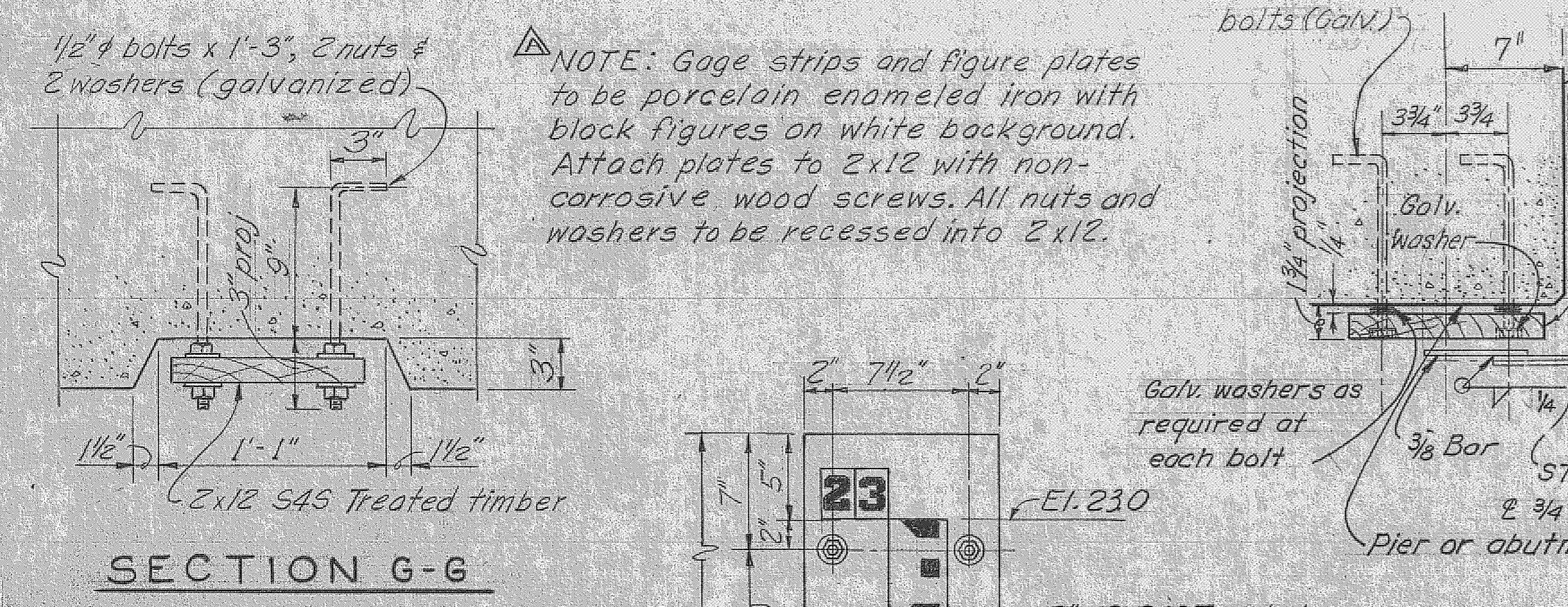
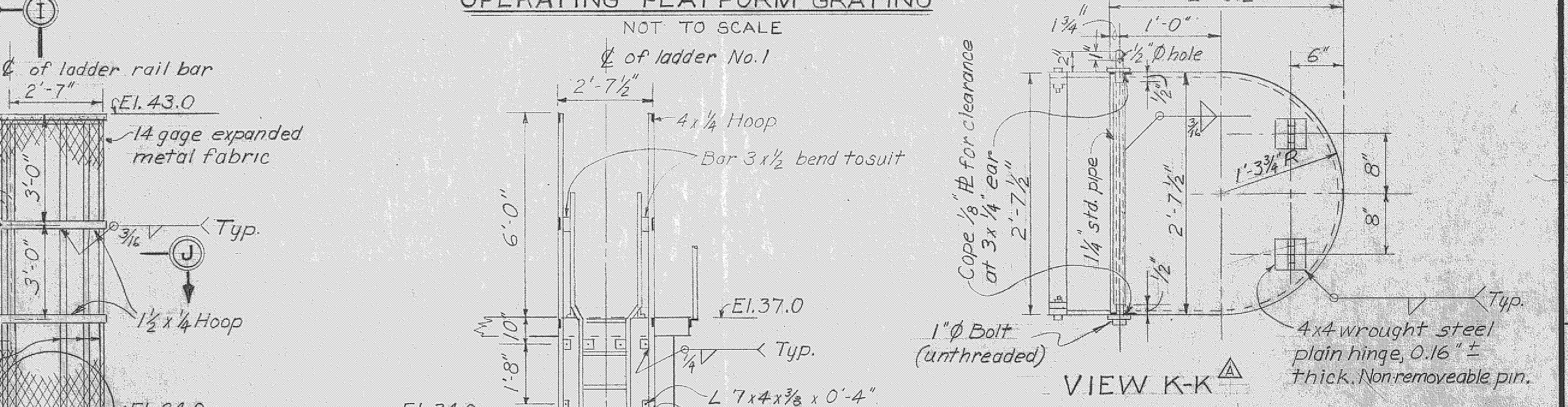
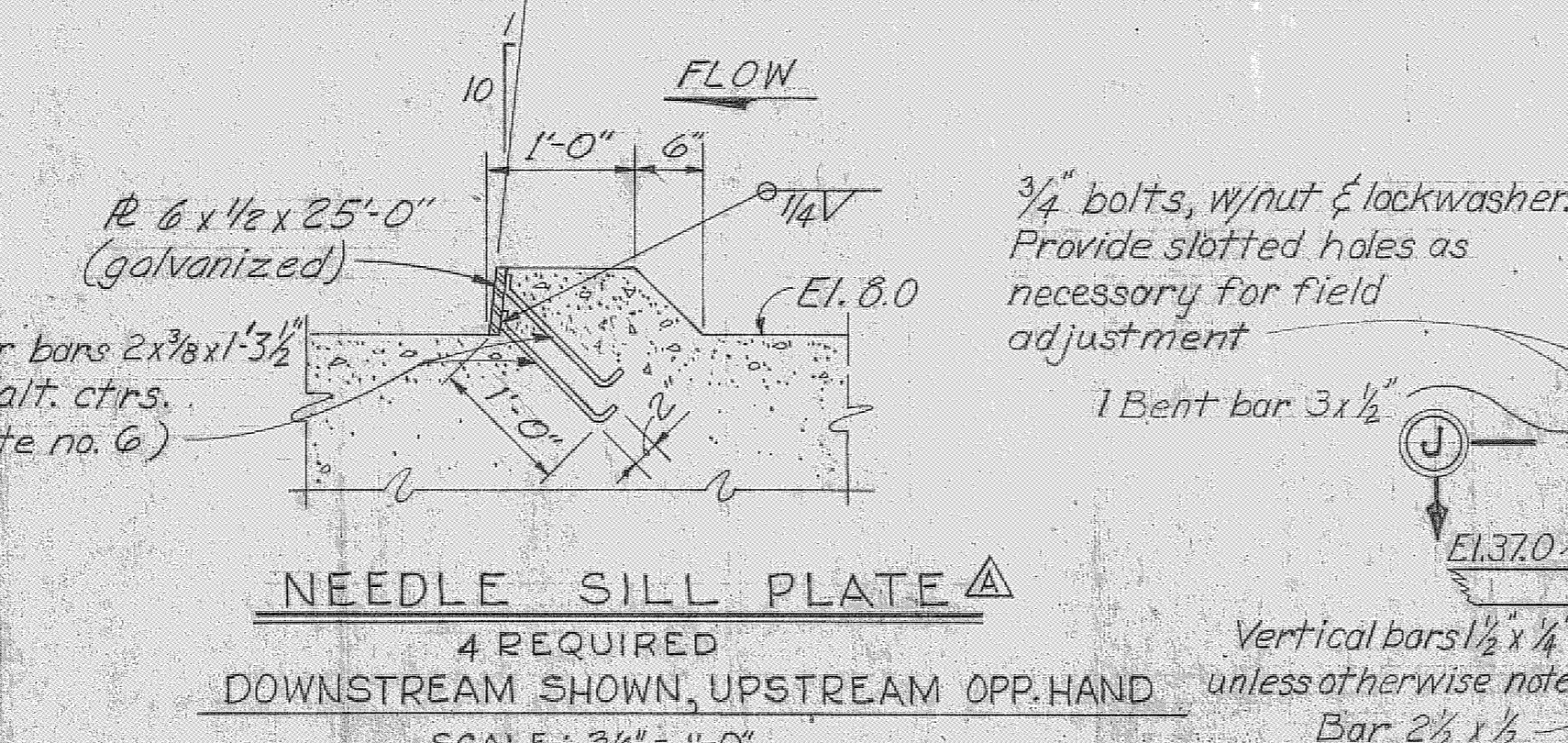
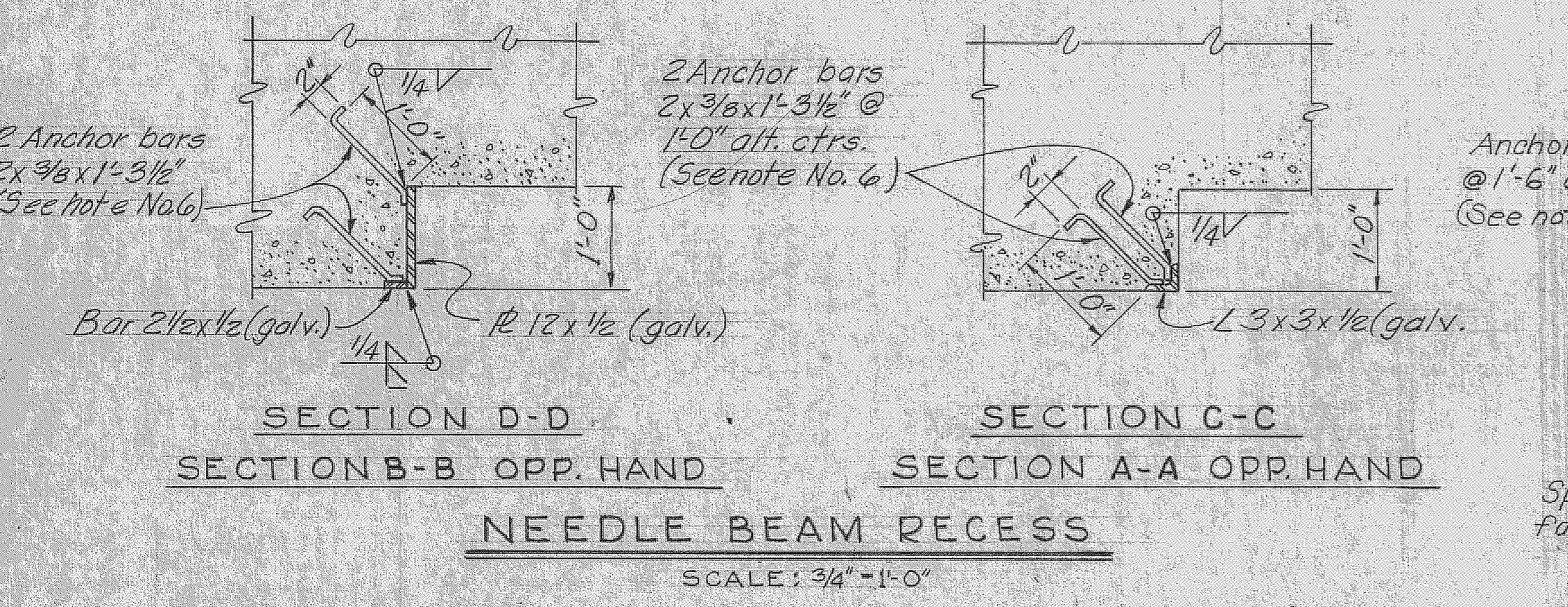
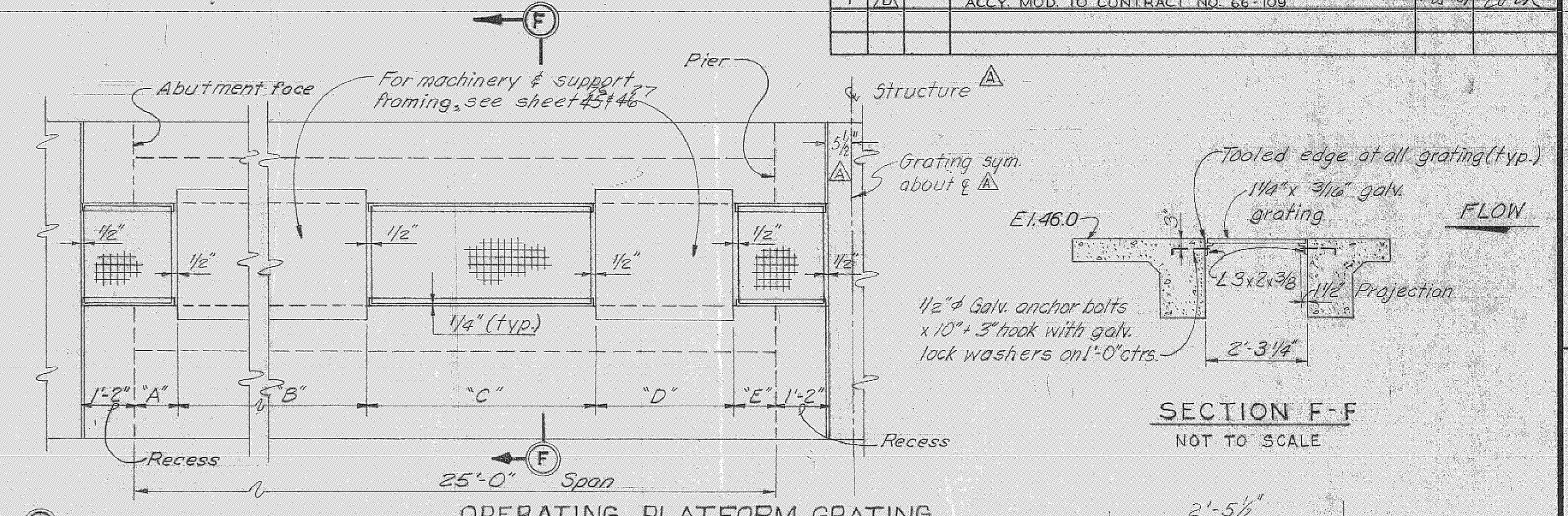
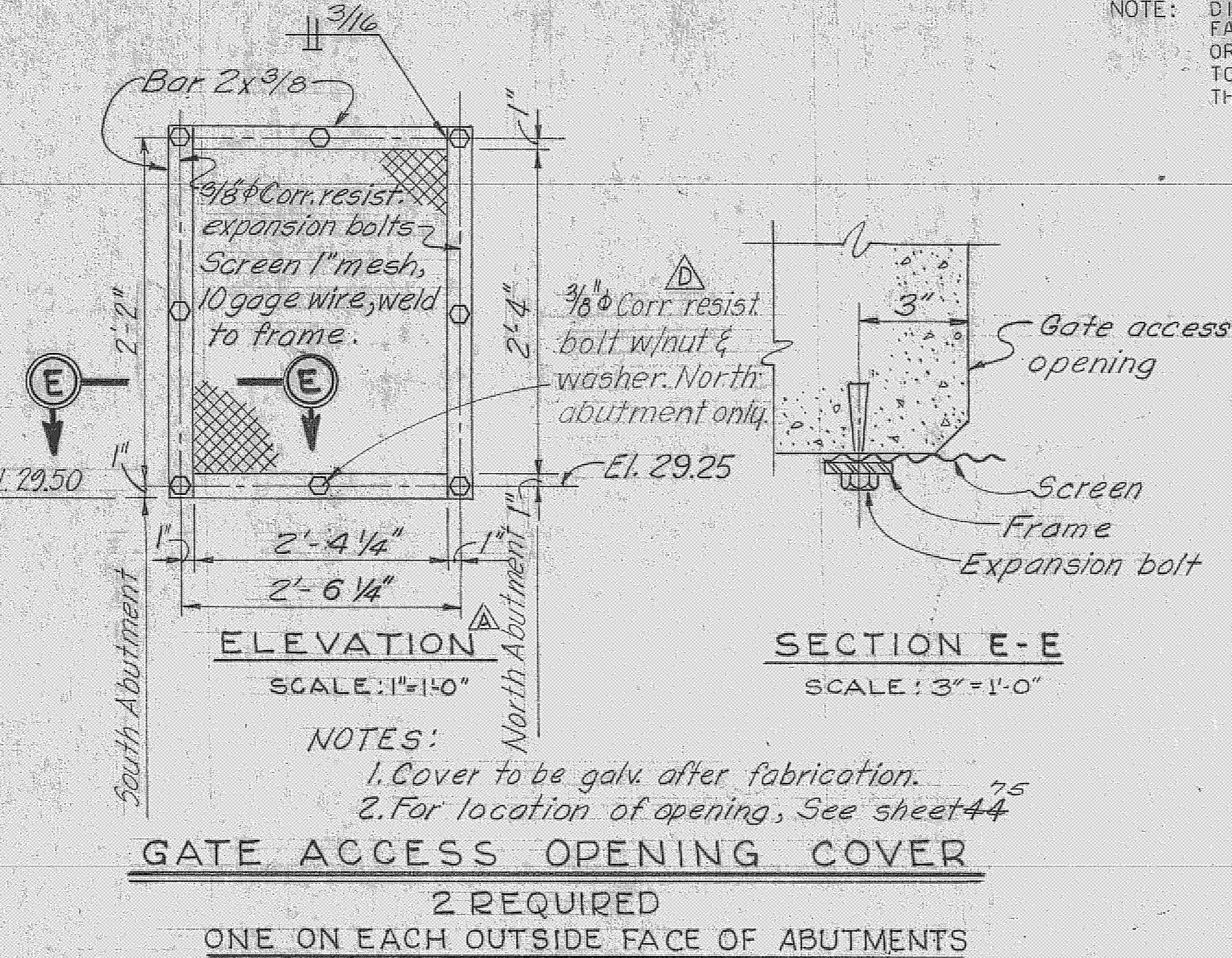
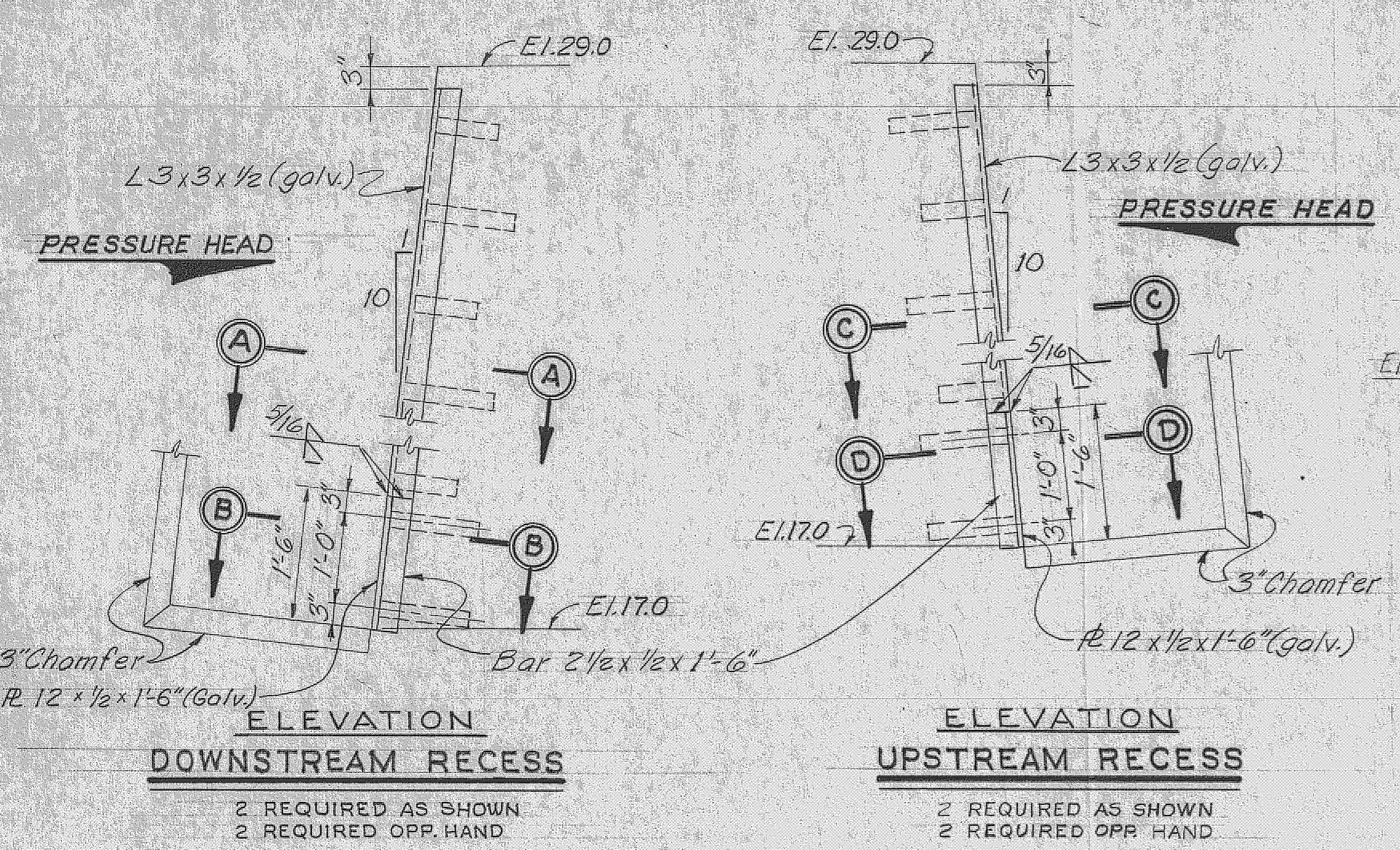
AS BUILT
 U. S. ARMY ENGINEER DISTRICT, JACKSONVILLE
 CORPS OF ENGINEERS
 JACKSONVILLE, FLORIDA

**CENTRAL AND SOUTHERN FLORIDA PROJECT
 FOR FLOOD CONTROL AND OTHER PURPOSES**
 CANAL 54 SECTION 2
 STRUCTURE - 96
 HANDRAILS

HHH Des. By: B.G.W. INV. NO. CIV. ENG. 08-123-66-66
 ASP Chd. By: J.C. DATED: 22 APRIL 1966
 SCALE: AS SHOWN DATED: APRIL 1966 SHEET 40 OF 72

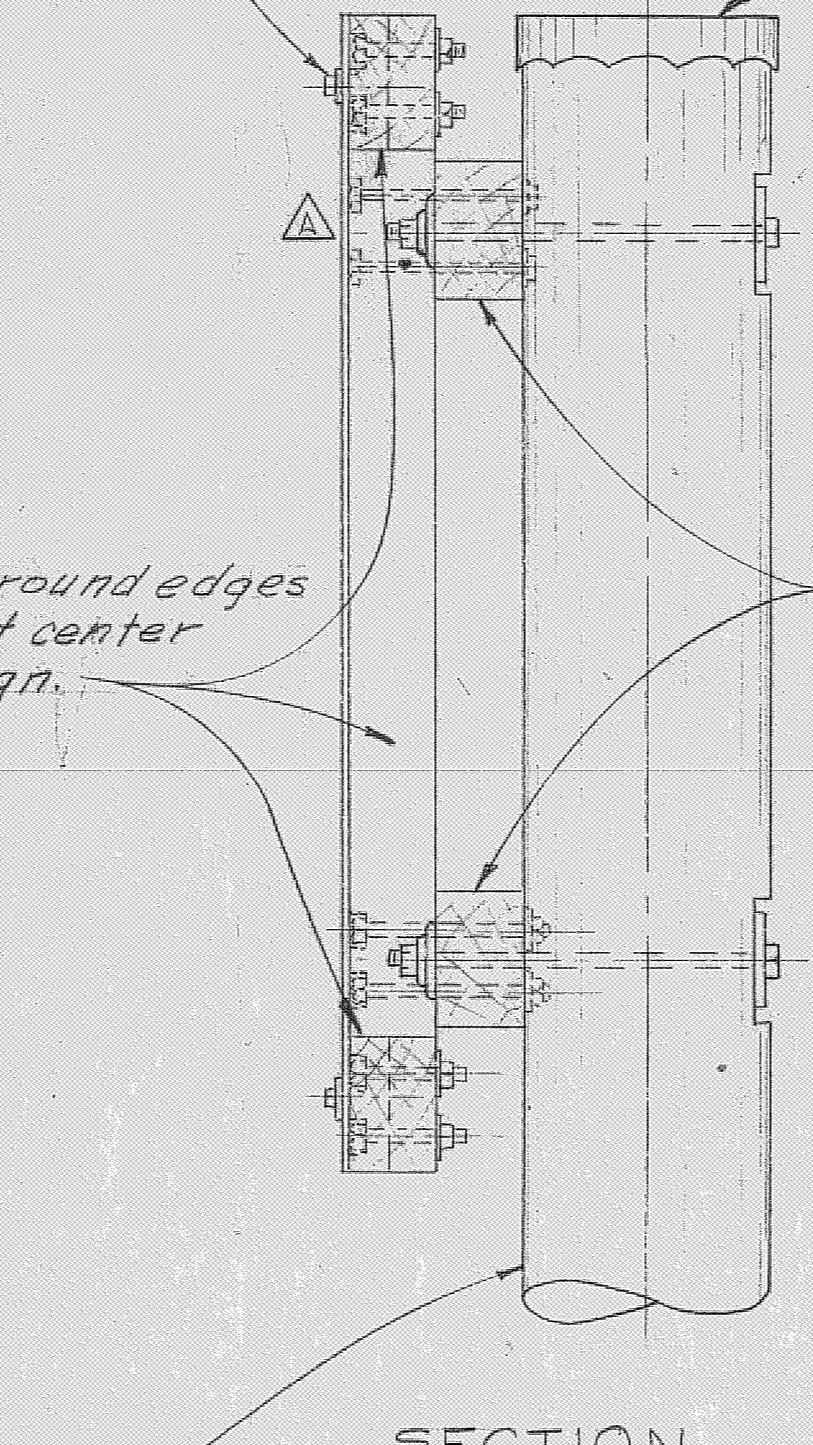
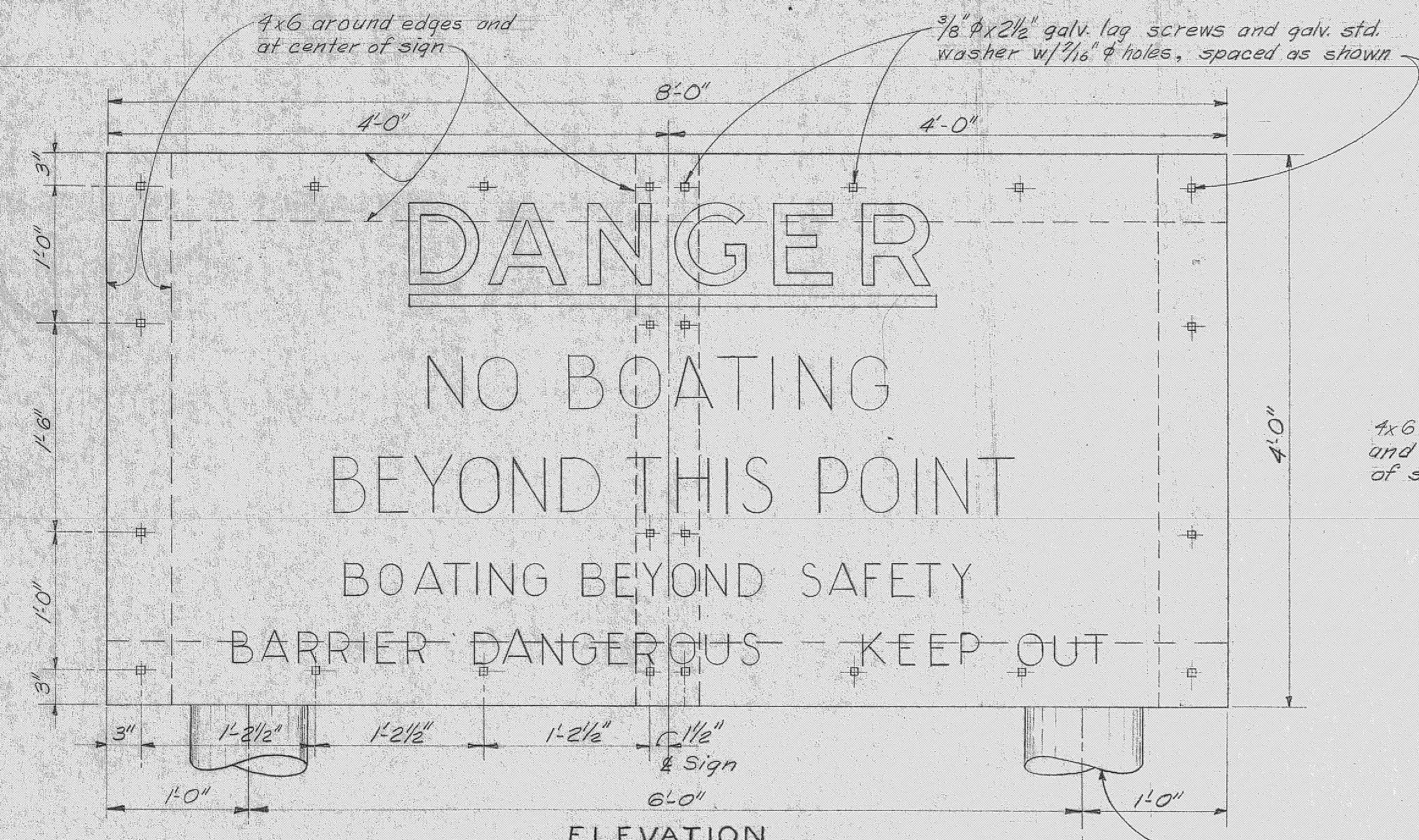
SAFETY ON THIS JOB
DEPENDS ON YOU

REVISIONS					
NO.	SYM.	ZONE	DESCRIPTION	DATE	APPROVED
17			REVISED TO CONFORM TO AMENDMENT NO 2	5-16-64	W.R.
2			REVISED TO CONFORM TO AMENDMENT NO 2	5-16-64	W.R.
4			REVISED POSITION MARKER, ELEV. OF TOP OF GATE, AND STAFF GAGES TO ACCORD WITH CONTRACT NO. 496-29-370	8-2-66	W.R.
1			REVISED TO CONFORM TO AMENDMENT NO 2	1-21-69	W.R.
			ACCY. MOD. TO CONTRACT NO. 66-109		

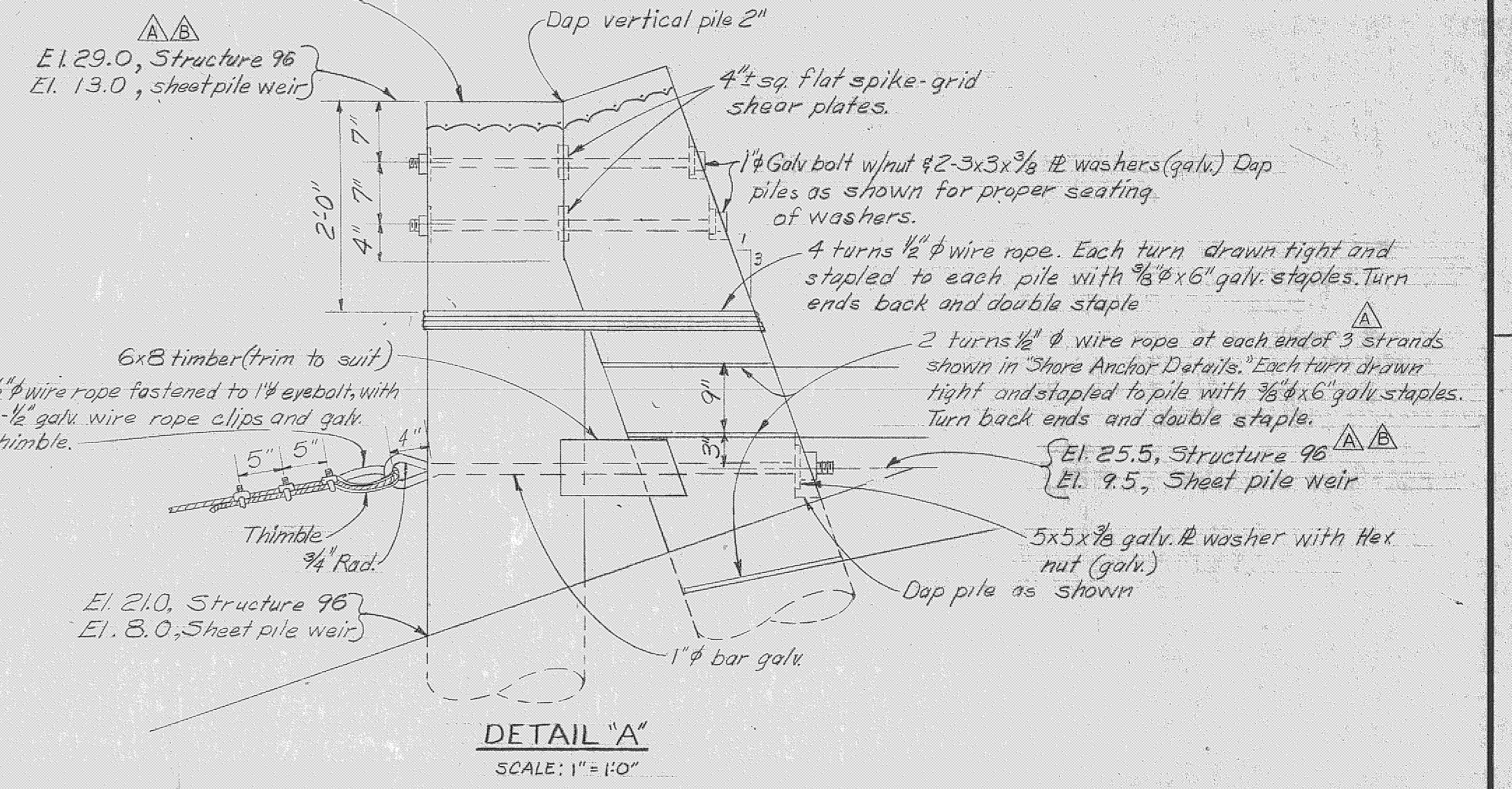


SAFETY ON THIS JOB
DEPENDS ON YOU

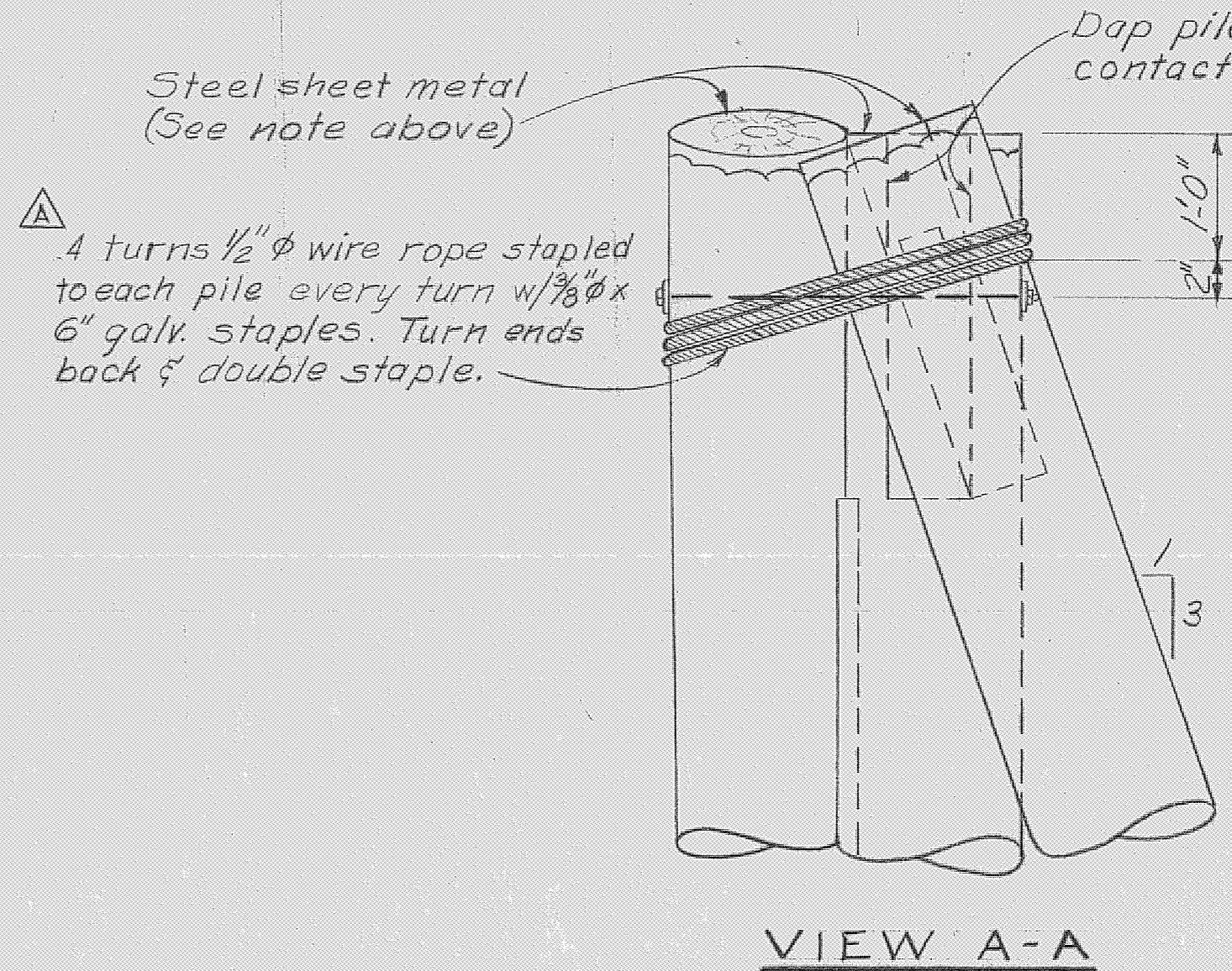
REVISIONS					
NO.	SYM.	ZONE	DESCRIPTION	DATE	APPROVED
13	△		REVISED TO CONFORM TO AMENDMENT NO. 2	5-16-66	WJR
6	△		REVISED WARNING SIGNS AT S-96 AND SHEET PILE WEIR TO ACCOMPANY MCD. TO CONT. CIV. ENG. 66-109	7-24-66	WJR



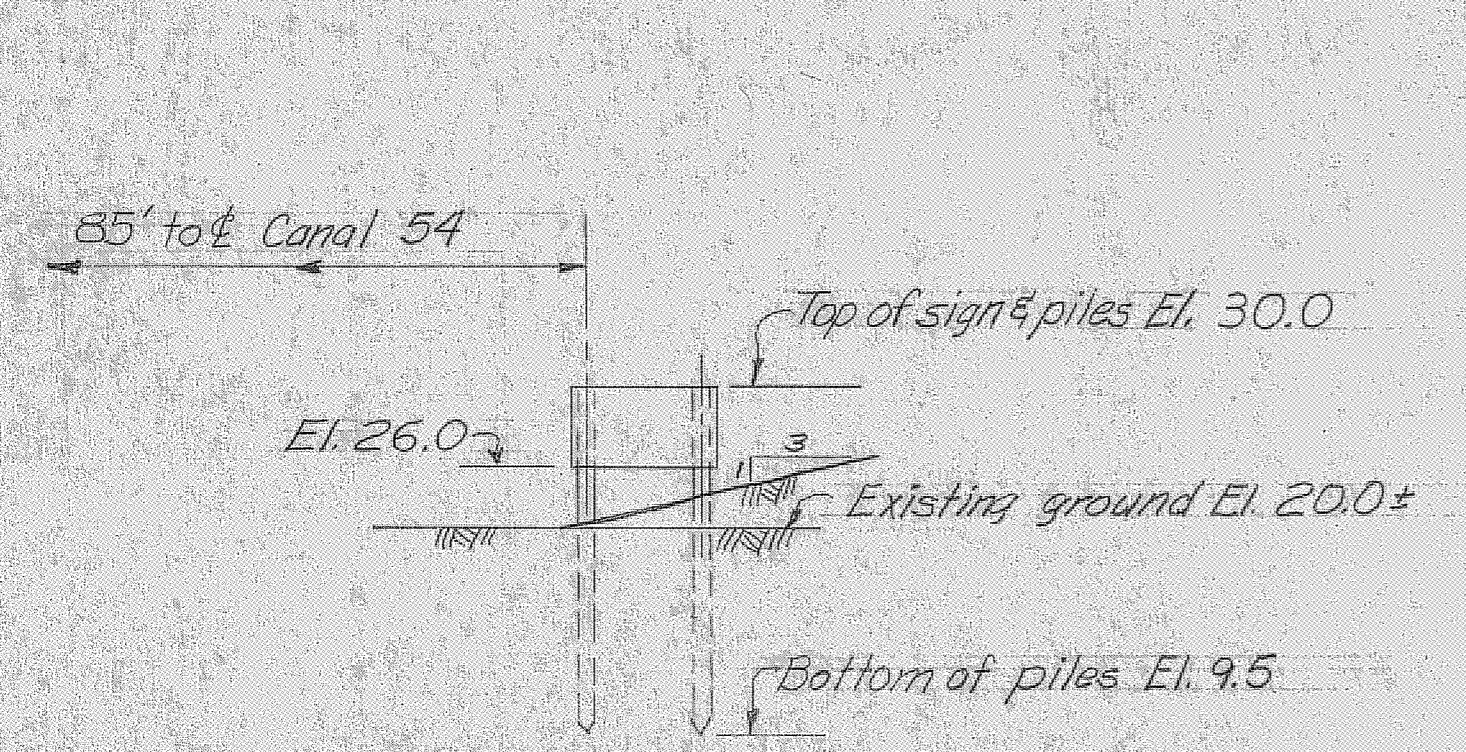
Note: All pile heads to be capped w/ 1/16 gage galv. steel sheet metal formed in the field and fastened to side of pile with 5d galv. nails.



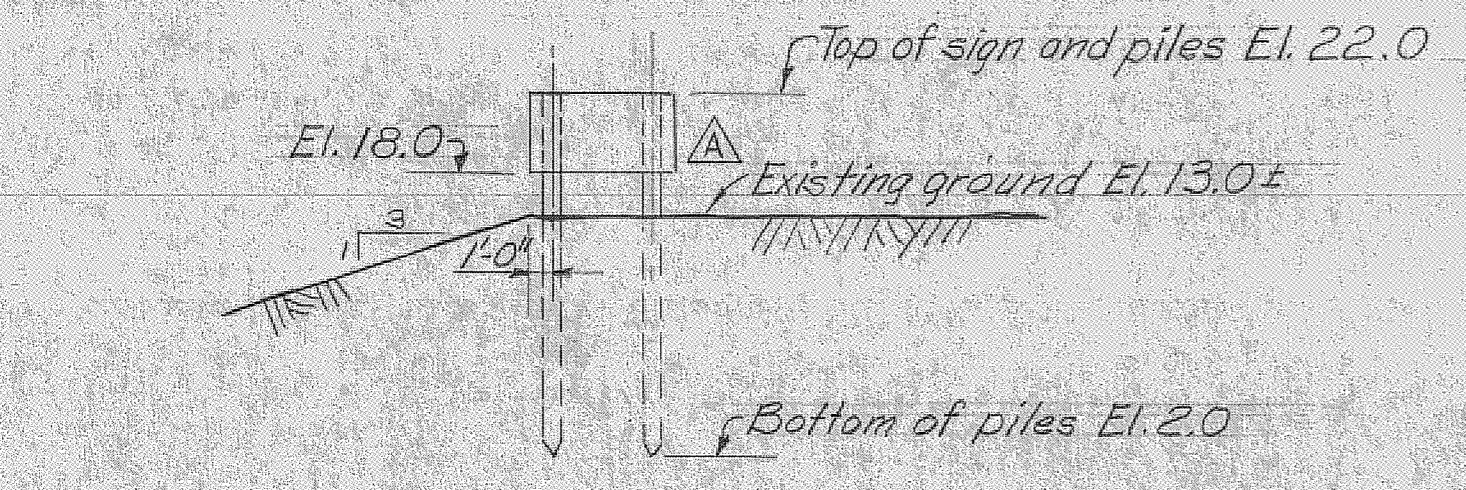
DETAIL "A"
SCALE: 1" = 1'-0"



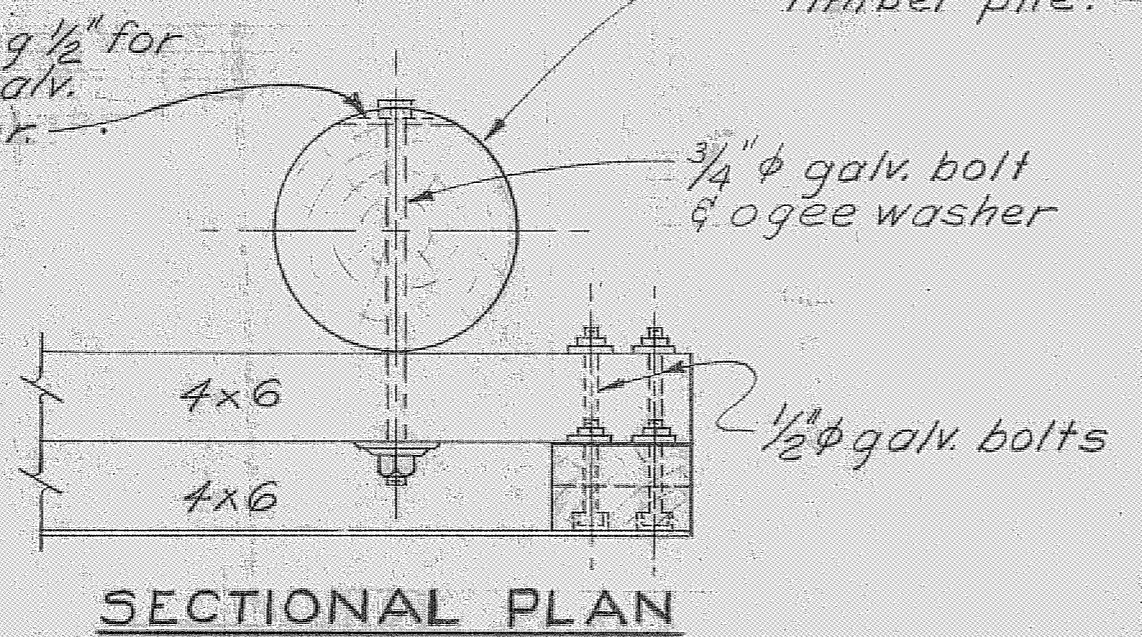
- GENERAL NOTES ON SAFETY BARRIERS:
1. THE ALUMINUM SIGNS ONLY TO BE FURNISHED BY THE GOVERNMENT, AND WILL BE STORED AND AVAILABLE TO THE CONTRACTOR AT CORPS OF ENGINEERS AREA ENGINEER OFFICE, CLEWISTON, FLORIDA.
 2. THE CONTRACTOR WILL FURNISH ALL PILING, TIMBER, AND HARDWARE REQUIRED AND ERECT THE SIGNS AS DETAILED.
 3. ALL BOLTS, NUTS, WASHERS, AND MISCELLANEOUS HARDWARE TO BE GALVANIZED AFTER FABRICATION.
 4. ALL TIMBER TO BE TREATED.
 5. FOR LOCATIONS OF SIGNS, SEE SHEETS 63, 86.
 6. WHERE GALVANIZED ITEMS LOSE THEIR COATING FROM WELDING OR CHIPPING, GALVANIZED REPAIRS SHALL BE MADE IN ACCORDANCE WITH THE SPECIFICATIONS.
 7. FOR SAFETY BARRIER LAYOUT, SEE SHEETS 63 & 86.



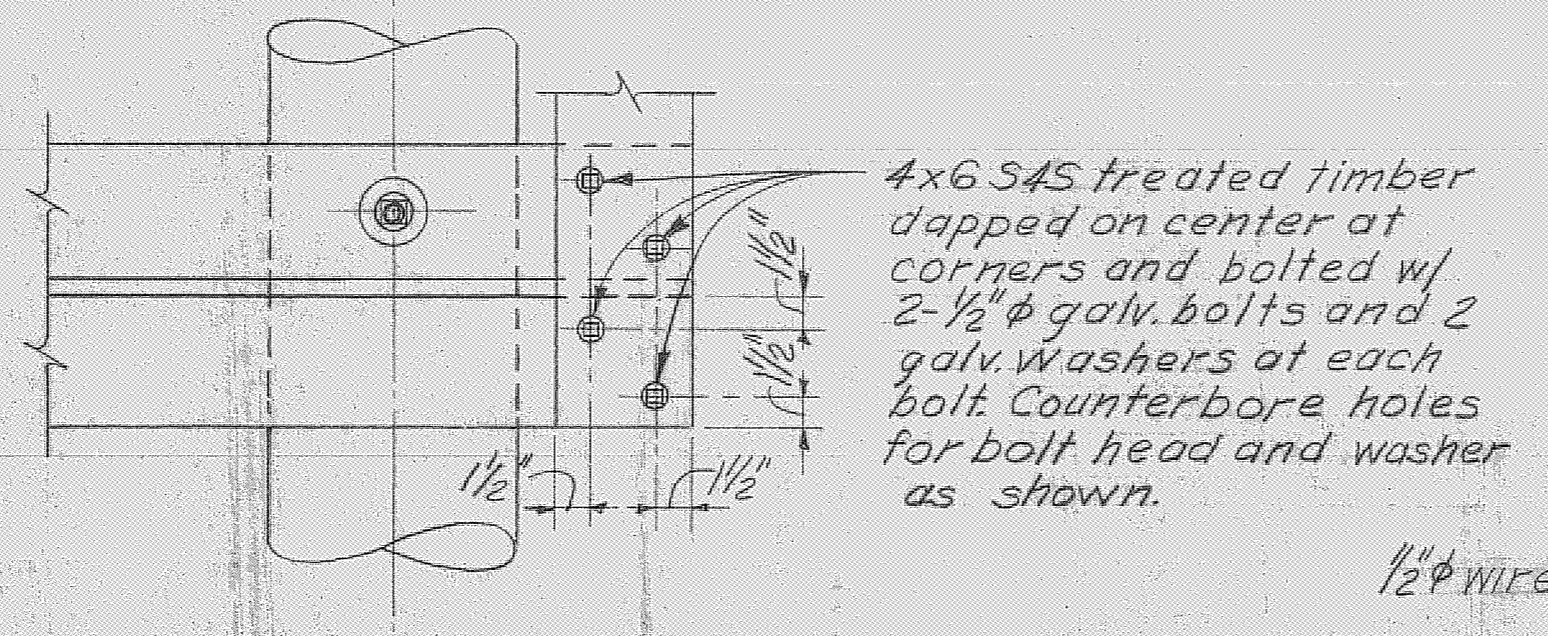
SECTION AT STRUCTURE 96
NO SCALE
(FOR LOCATION SEE SHEET 32)



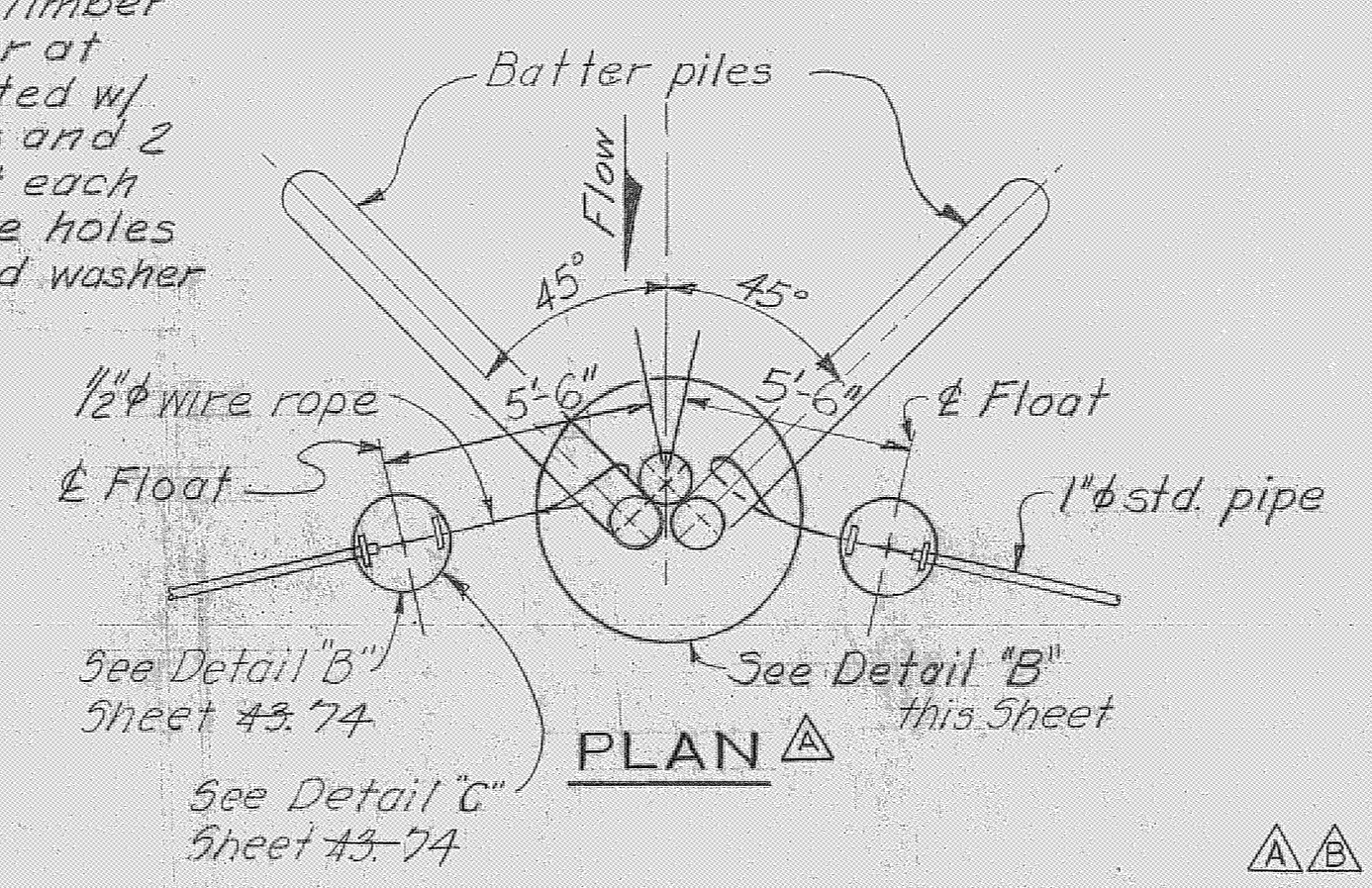
SECTION AT SHEET PILE WEIR
NO SCALE
(FOR LOCATION SEE SHEET 55)



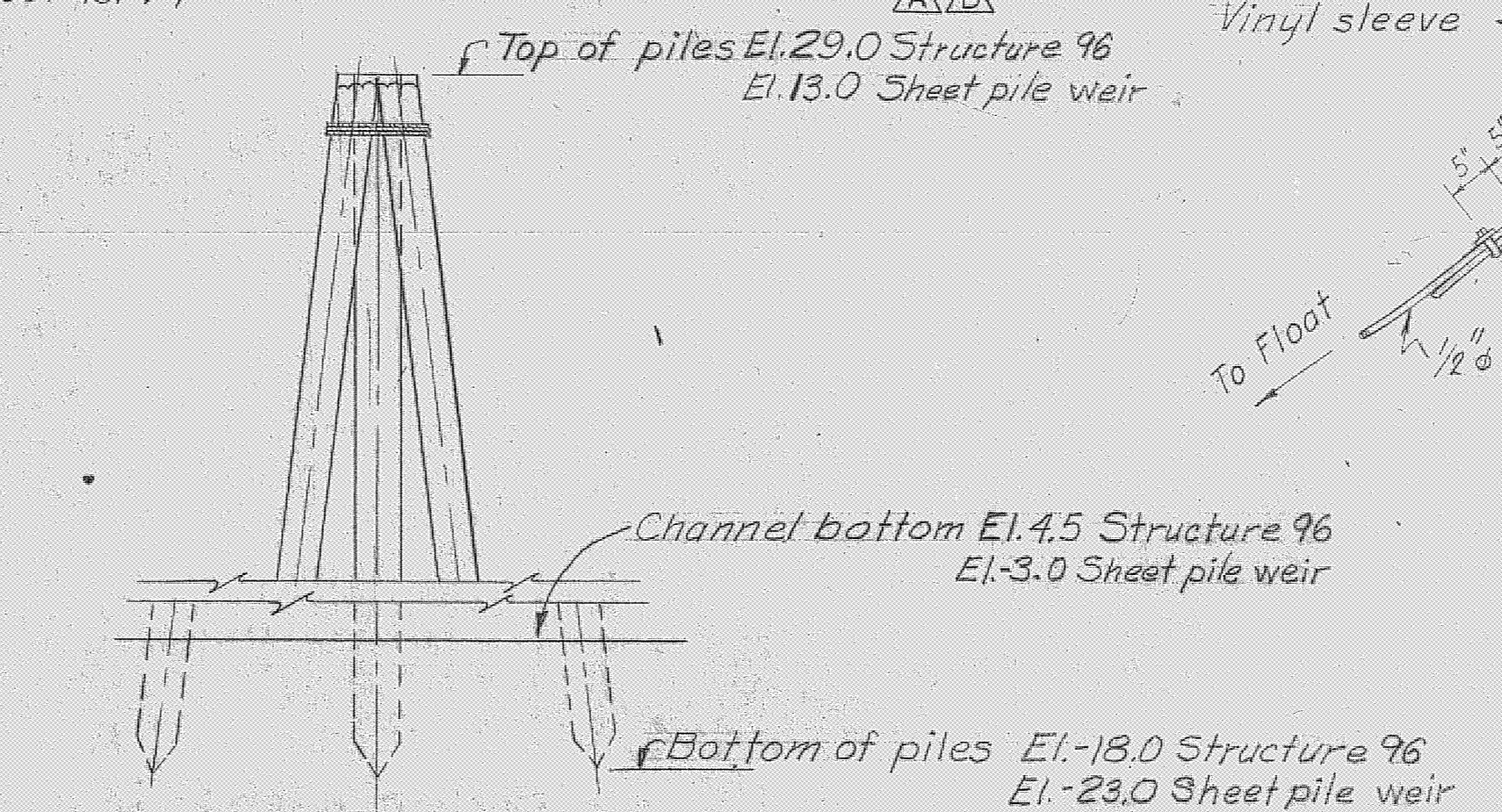
SECTIONAL PLAN



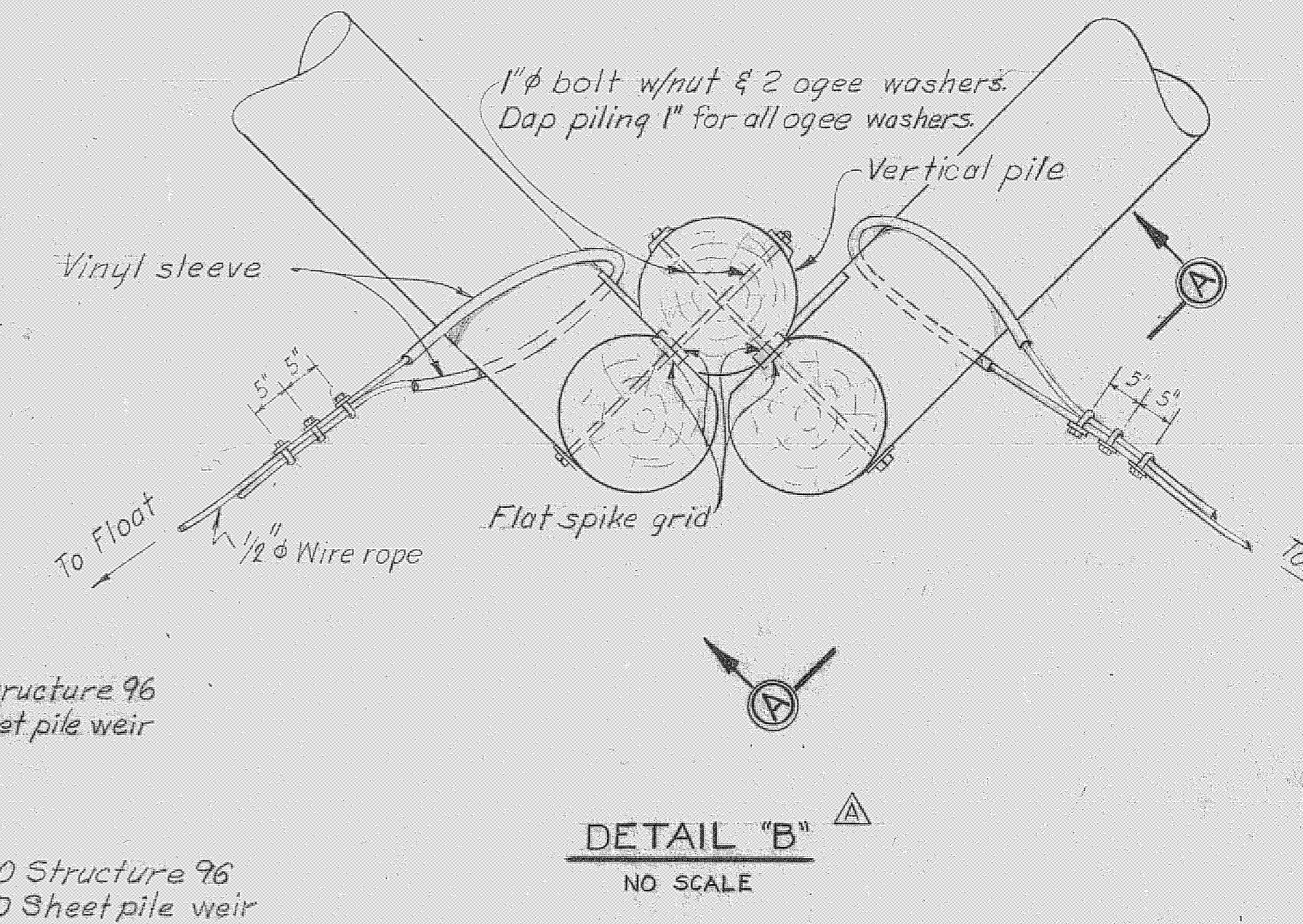
ELEVATION
DETAIL AT CORNERS



PLAN



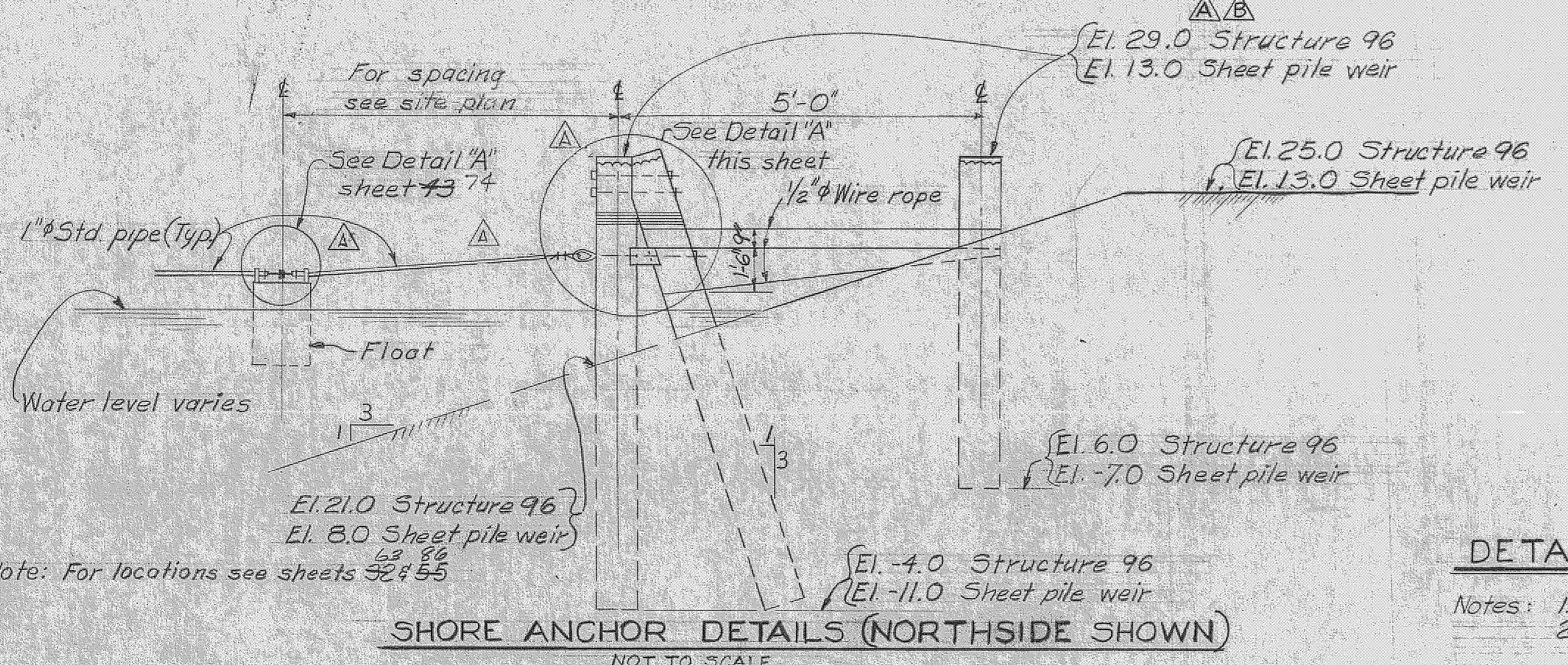
ELEVATION
CHANNEL ANCHOR PILES
NO SCALE
1 REQUIRED AT STRUCTURE 96
1 REQUIRED AT SHEET PILE WEIR



DETAIL "B"
NO SCALE

DETAILS OF WARNING SIGNS

- SCALE: 1/4" = 1'-0"
- 1 REQUIRED STRUCTURE 96
 - 1 REQUIRED SHEET PILE WEIR

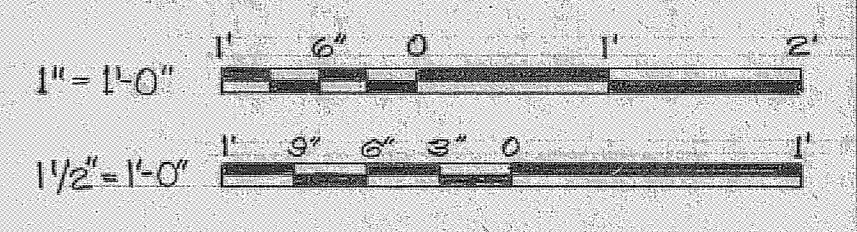


SHORE ANCHOR DETAILS (NORTHSIDE SHOWN)
NOT TO SCALE
2 REQUIRED STRUCTURE 96
2 REQUIRED SHEET PILE WEIR

DETAILS OF SAFETY BARRIER ANCHORAGES

- Notes: 1. Safety barrier anchorages are symmetrical about canal.
2. Safety barrier anchorages for sheet pile weir are similar to the anchorages for Structure 96 except as noted.

GRAPHIC SCALES



RECORD DRAWING NOTE

"Shall be," "Provide," "Install," "Remove," etc., indicates work was accomplished under the contract.

AS BUILT

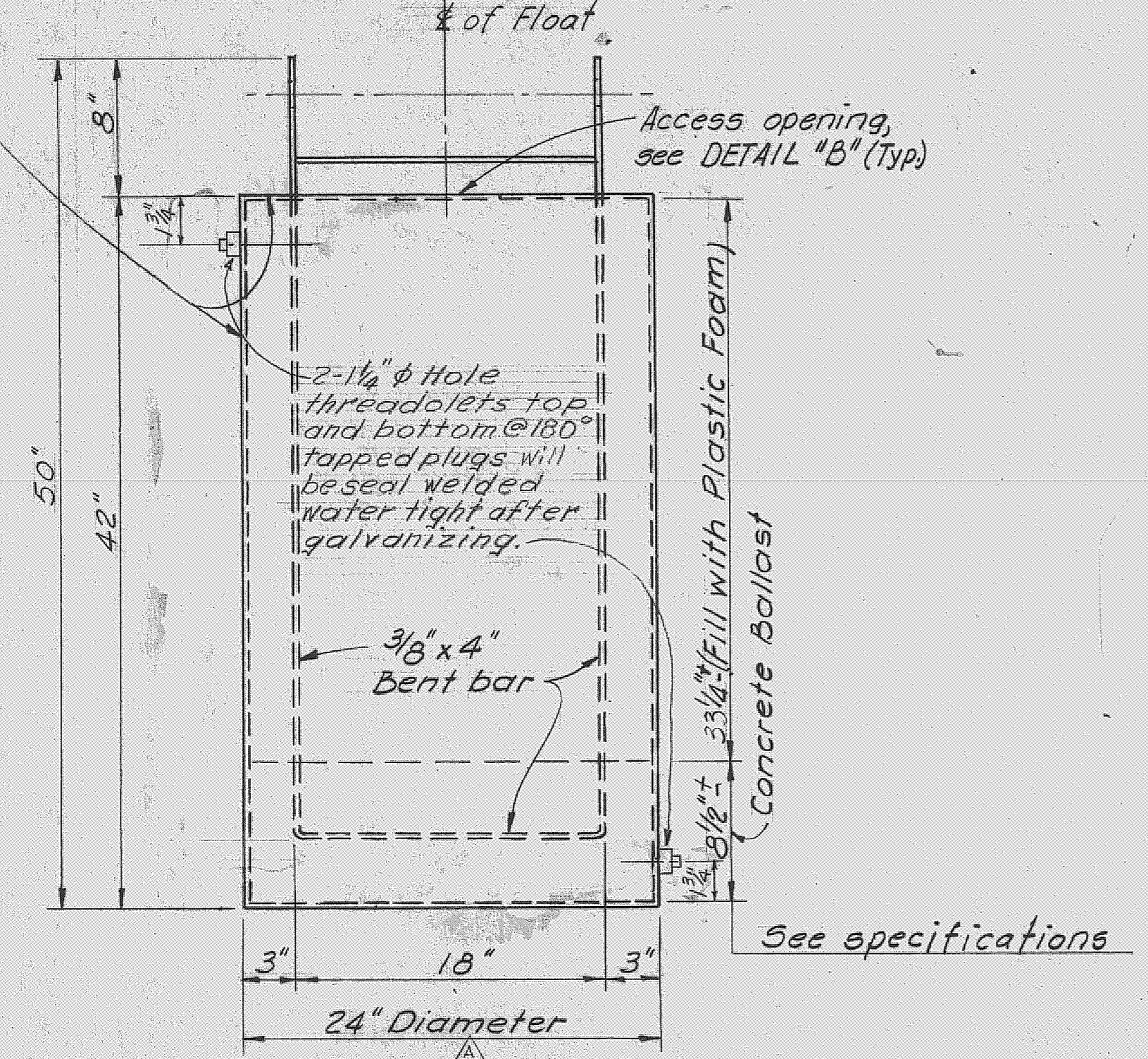
U. S. ARMY ENGINEER DISTRICT, JACKSONVILLE
CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA
CENTRAL AND SOUTHERN FLORIDA PROJECT
FOR FLOOD CONTROL AND OTHER PURPOSES
CANAL 54, SECTION 2
STRUCTURE - 96
WARNING SIGNS AND ANCHOR DETAILS

APP. BY	DWN. BY	REV. NO. CIV. ENG. 08-123-66-66	SIZE	DWG. NO.
ASR	JIC	DATED: 28 APRIL 1966	F	
		SCALE: AS SHOWN		
		DATED: APRIL 1966		

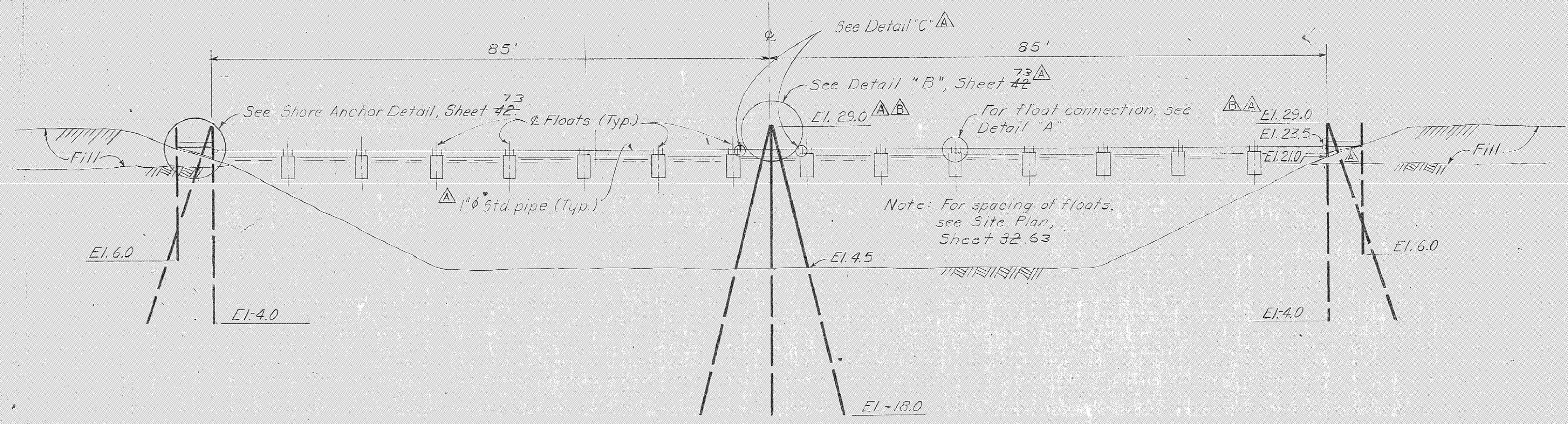
REVISIONS					
NO.	SYM.	ZONE	DESCRIPTION	DATE	APPROVED
13	△		REVISED TO CONFORM TO AMENDMENT NO. 2	5/16/66	WGR
2	△	E-2	REVISED ELEV. OF TOPS OF SAFETY BARRIER PILES AT 5-96 TO ACCOMPANY MOD TO CONTRACT CIV-ENG. 66-103	8/26/66	WGR

SAFETY
NEAR ADJACENTS ARE WARNINGS THAT YOU SHOULD SAFETY

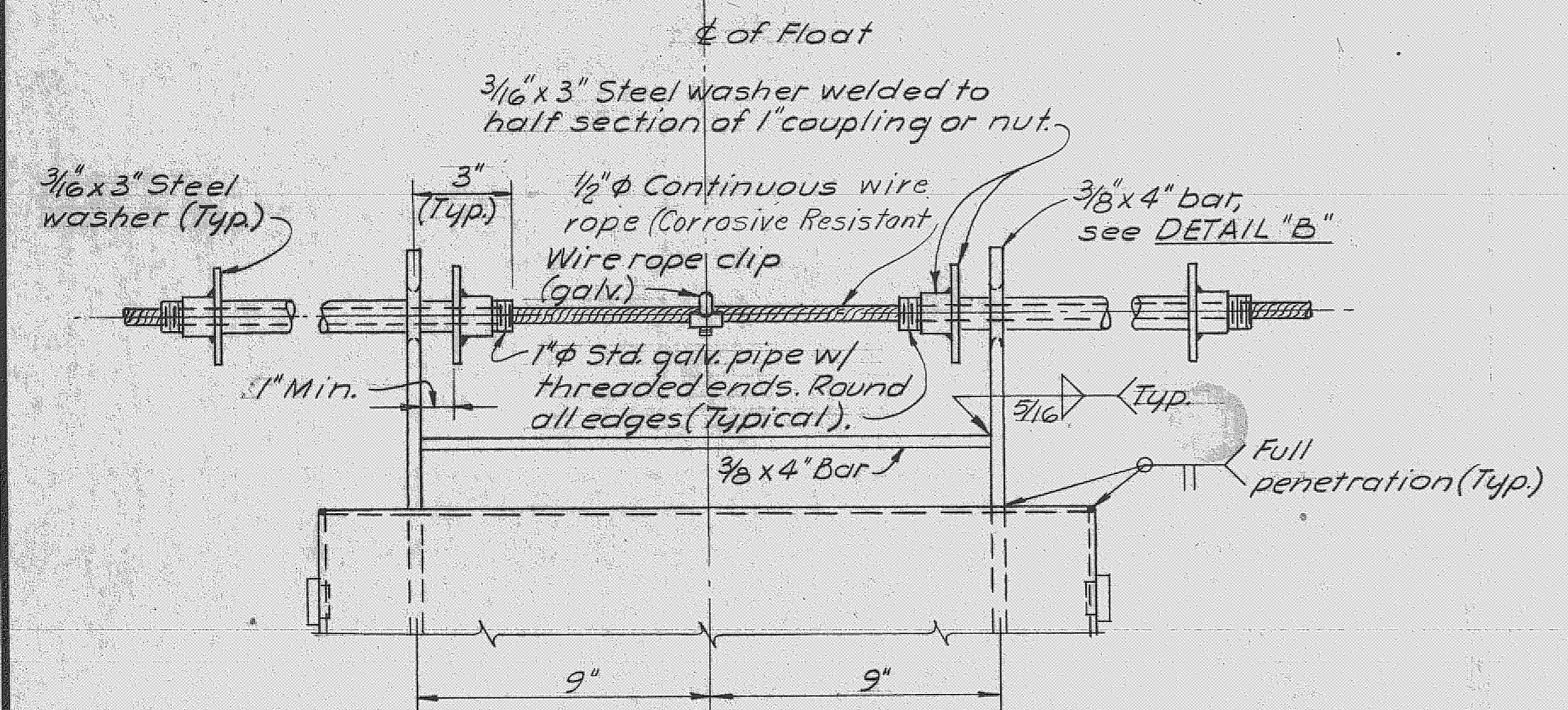
Note: Cylinder to be fabricated from 12 gage steel plates. All joints shall be welded in such a manner to provide a completely water-tight cylinder.



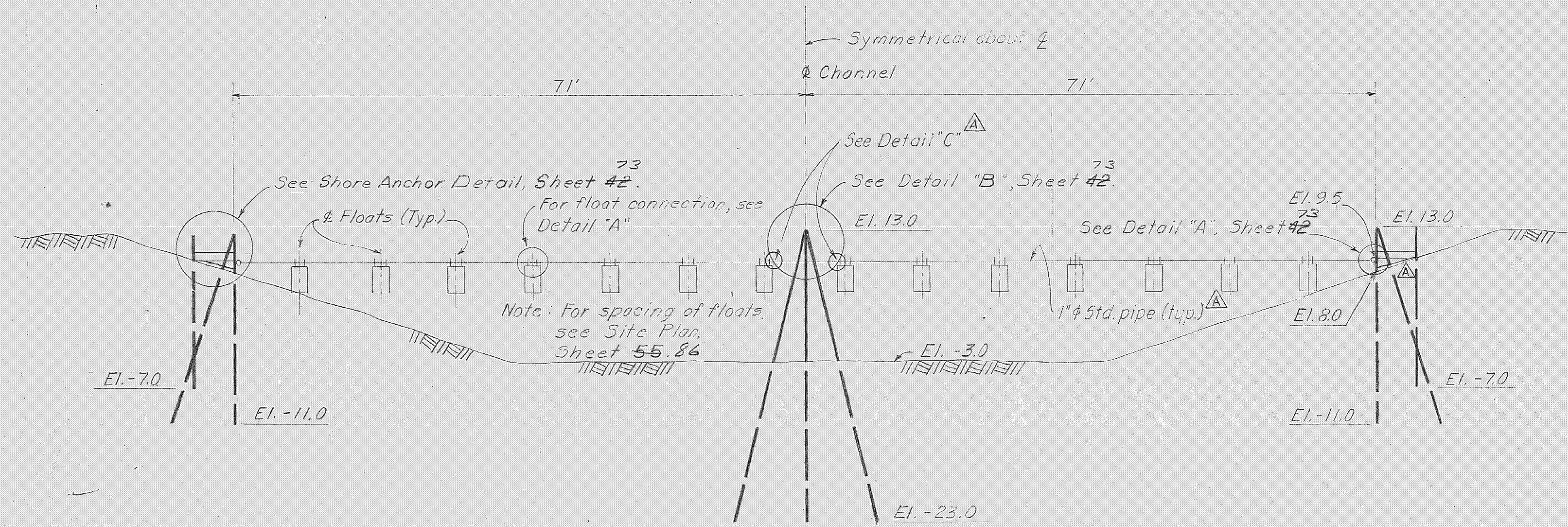
Note: Refer to Note No. 4 this sheet
FLOAT ELEVATION (TYP)
SCALE: 1 1/2" = 1'-0"
△ 28 Required



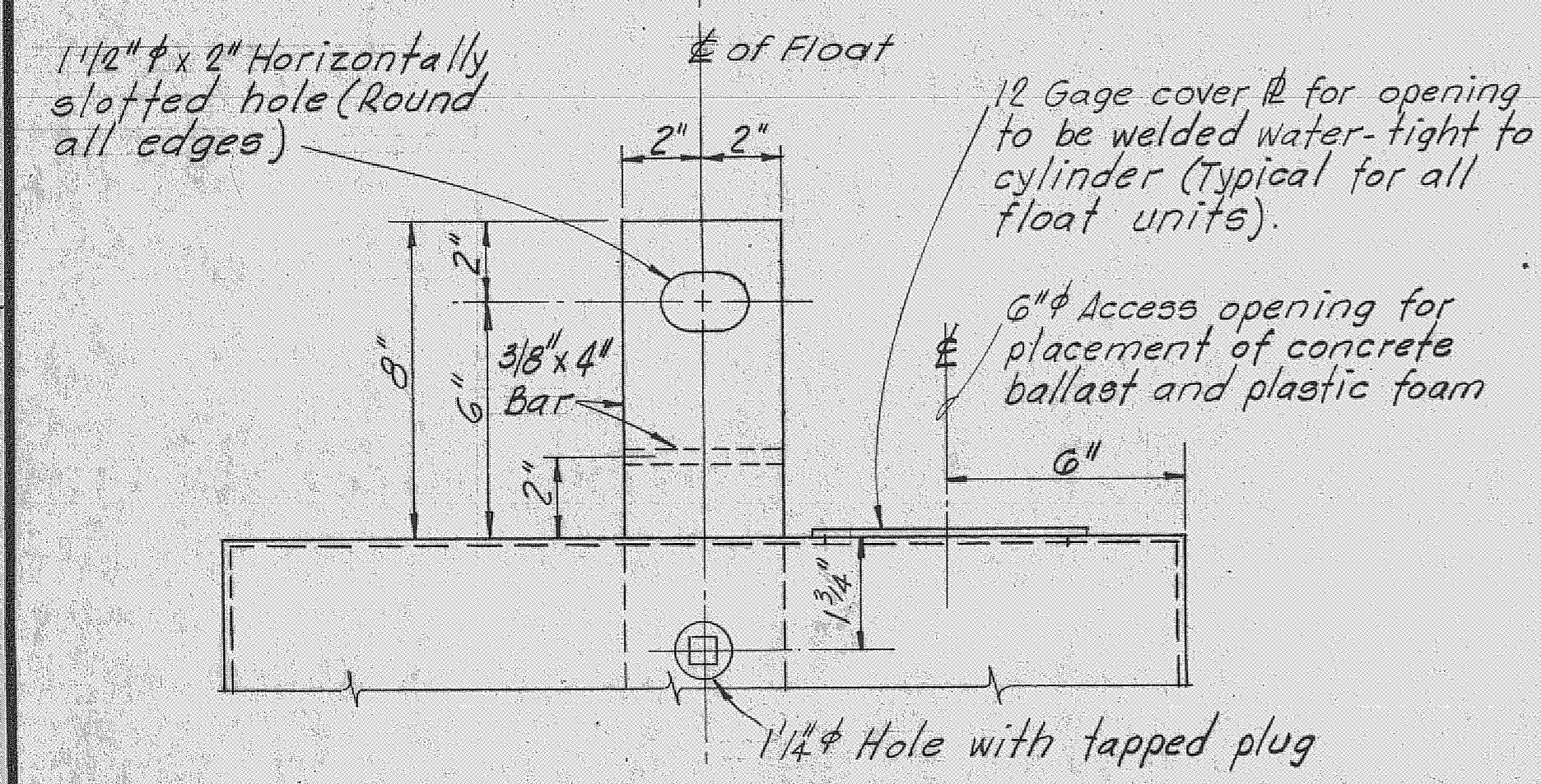
SAFETY BARRIER AT STRUCTURE 96
SCALE: 1" = 10'-0"
1" REQUIRED



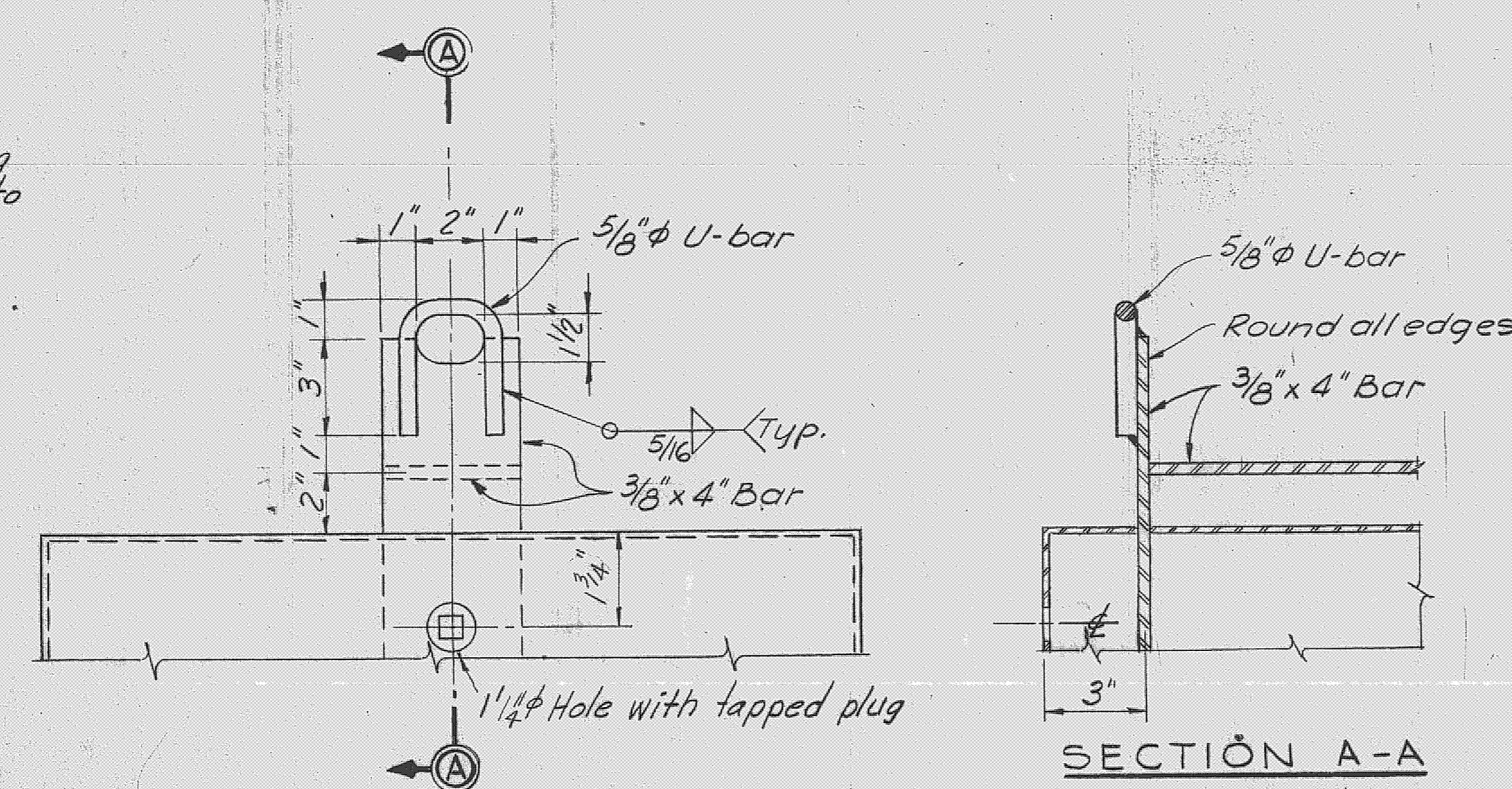
DETAIL "A"
SCALE: 3" = 1'-0"



SAFETY BARRIER AT SHEET PILE WEIR
SCALE: 1" = 10'-0"
1" REQUIRED



DETAIL "B"
SCALE: 3" = 1'-0"



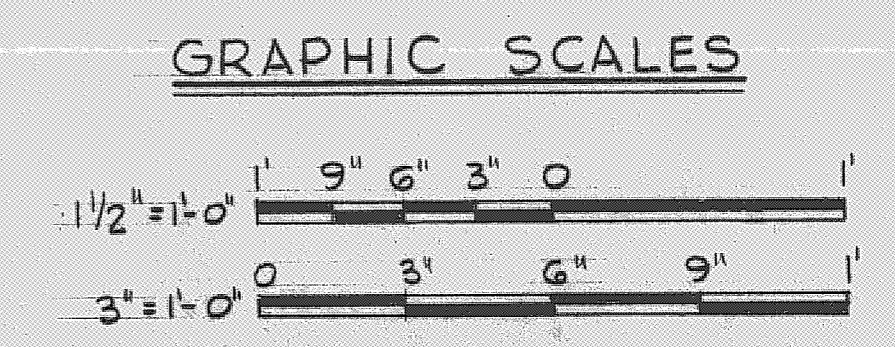
SECTION A-A
SCALE: 3" = 1'-0"

DETAIL "C"
SCALE: 3" = 1'-0"

RECORD DRAWING NOTE
"Shall be," "Provide," "Install," "Remove," etc., indicates work was accomplished under the contract.

AS BUILT

- NOTES:**
- FOR LAYOUT OF SAFETY BARRIERS, SEE SHEETS 42-43 AND 55-86
 - FOR DETAILS OF ANCHOR PILES SEE SHEET 42
 - ALL GALVANIZED ITEMS SHALL BE GALVANIZED AFTER FABRICATION.
 - ALL SAFETY BARRIER FLOATS SHALL BE GALVANIZED. WHERE GALVANIZED ITEMS LOSE THEIR COATING DUE TO FIELD WELDING, OR CHIPPING GALVANIZING REPAIRS SHALL BE MADE IN ACCORDANCE WITH THE SPECIFICATIONS.
 - FOR LOCATION AND LAYOUT OF FLOATS FOR THE SAFETY BARRIER AT THE STEEL SHEET PILE WEIR SEE SHEET NO. 55-86



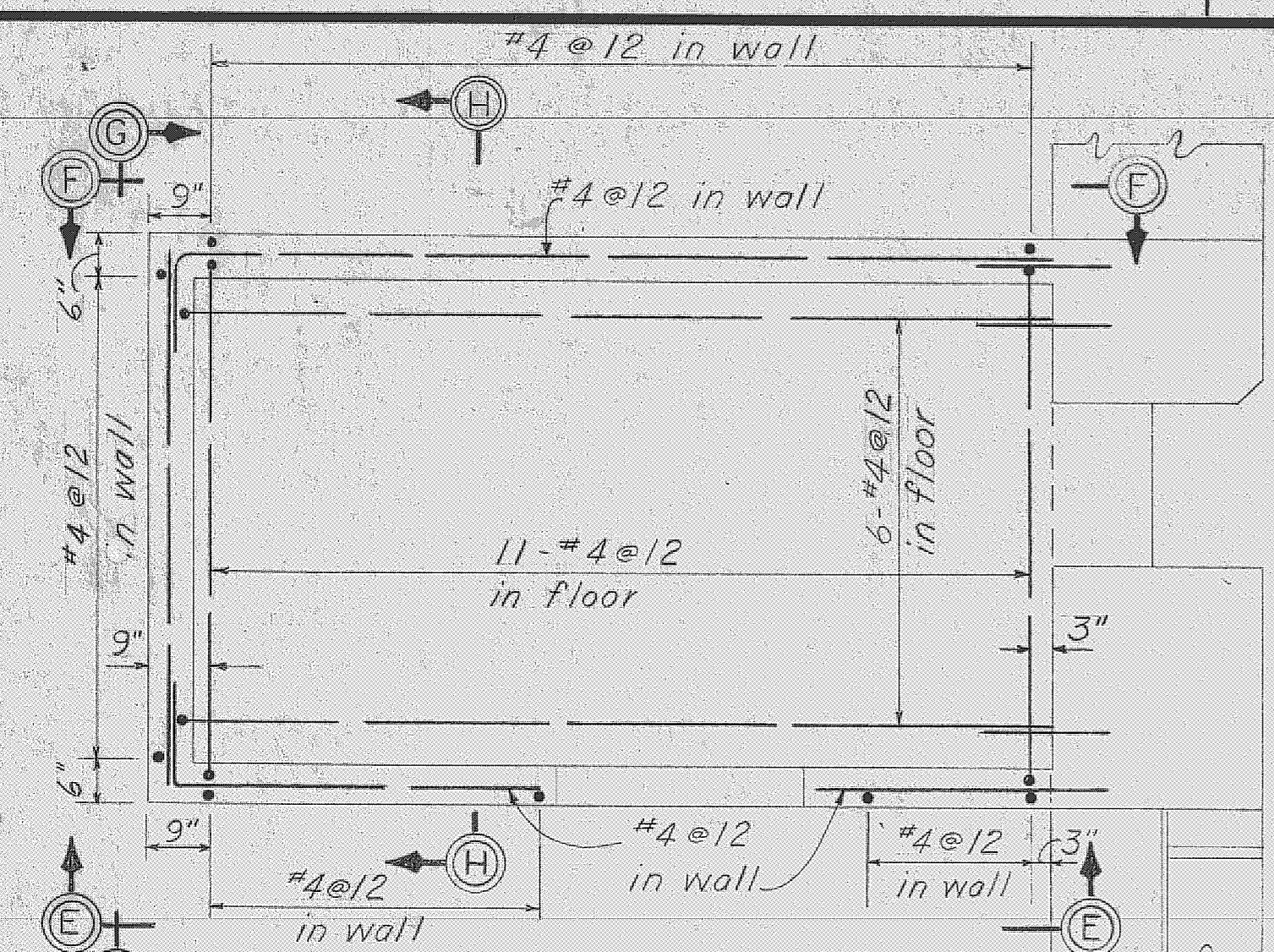
U. S. ARMY ENGINEER DISTRICT, JACKSONVILLE
CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA
CENTRAL AND SOUTHERN FLORIDA PROJECT
FOR FLOOD CONTROL AND OTHER PURPOSES
CANAL 54, SECTION 2
STRUCTURE - 96
SAFETY BARRIER DETAILS

H.H.H.	OWN BY	INV. NO. CIV. ENG. 08-123-66-66	SIZE	DWG. NO.
C.S.	EXP. BY	DATED: 28 APRIL 1966	F	
ASP	JC	SCALE: AS SHOWN DATED: APRIL 1966		SHEET 43 OF 72

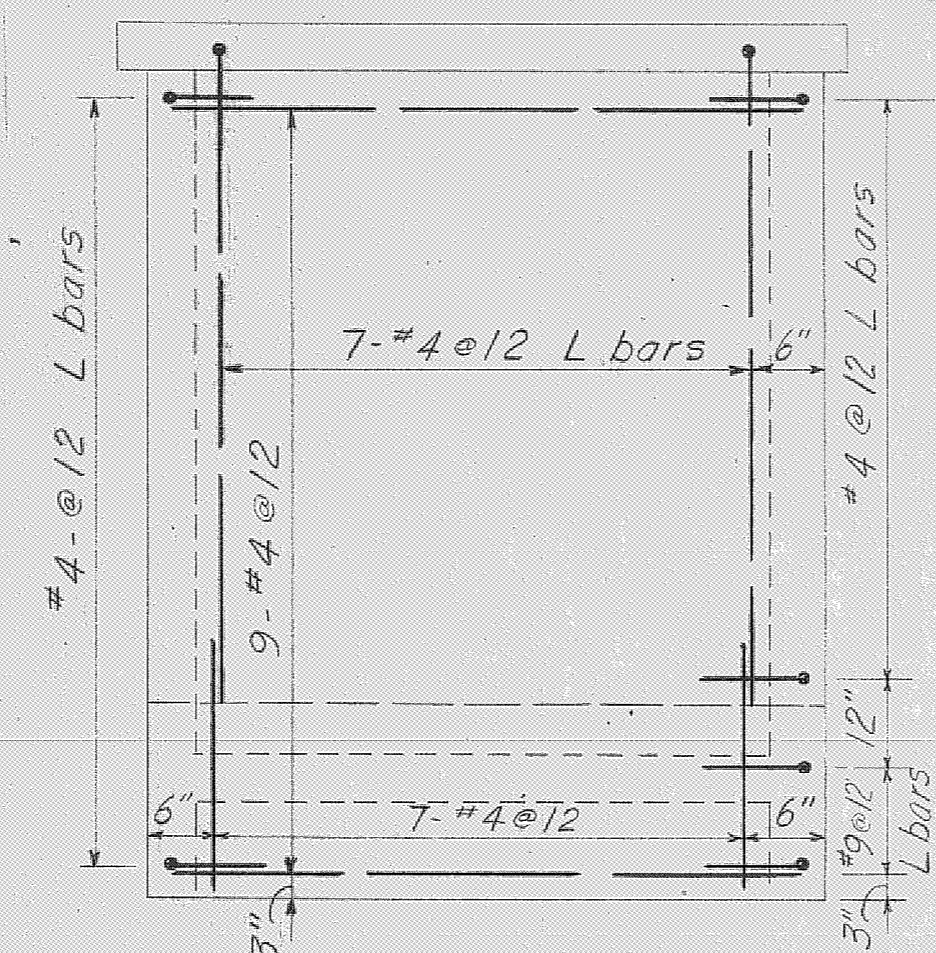
D. O. FILE NO. 496-29370-8/70 74 103
496-30,952

REVISIONS					
NO.	SYM.	ZONE	DESCRIPTION	DATE	APPROVED
3	Δ		REVISED TO CONFORM TO AMENDMENT NO. 2	5-16-66	WTR

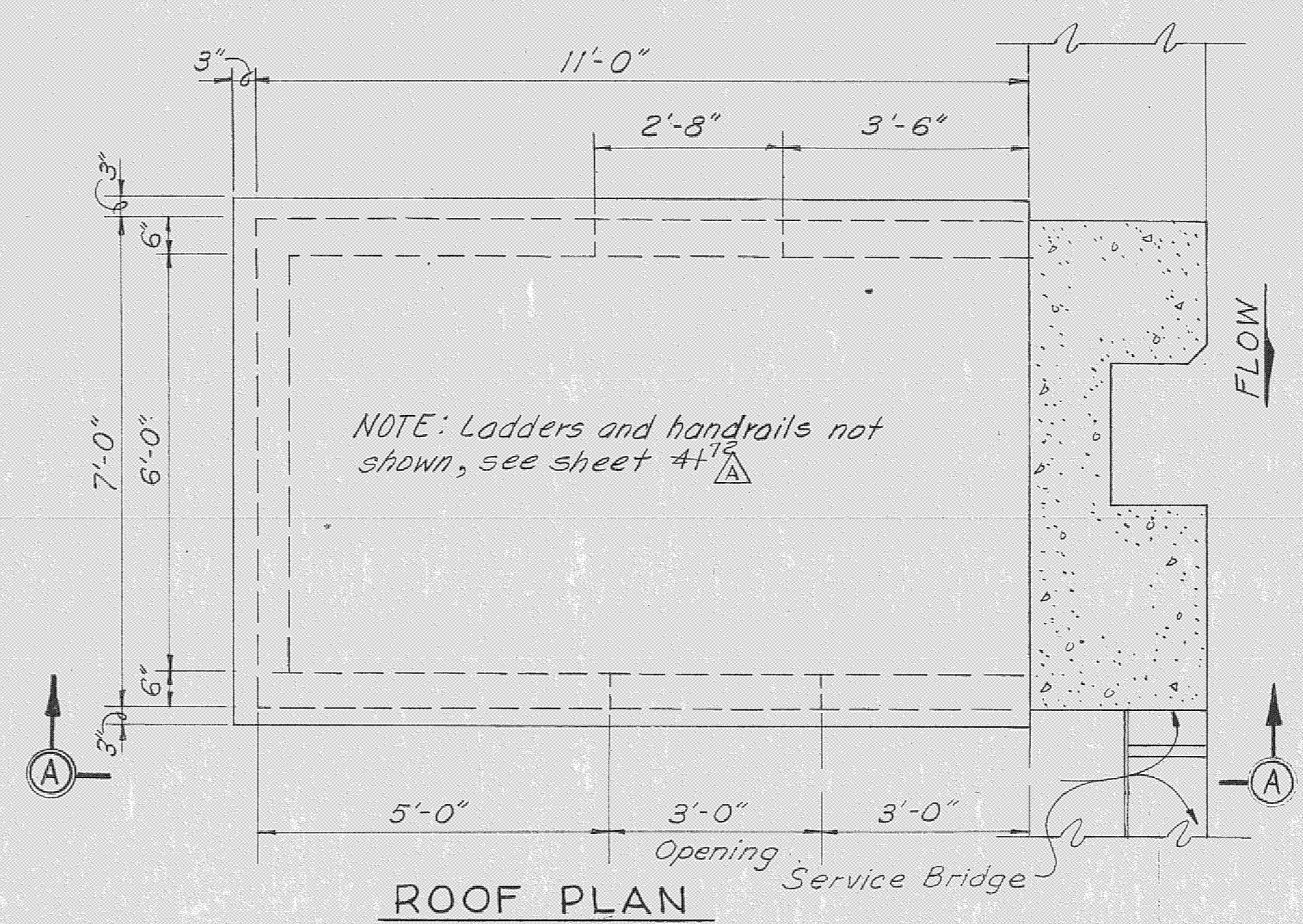
SAFETY ON THIS JOB
DEPENDS ON YOU



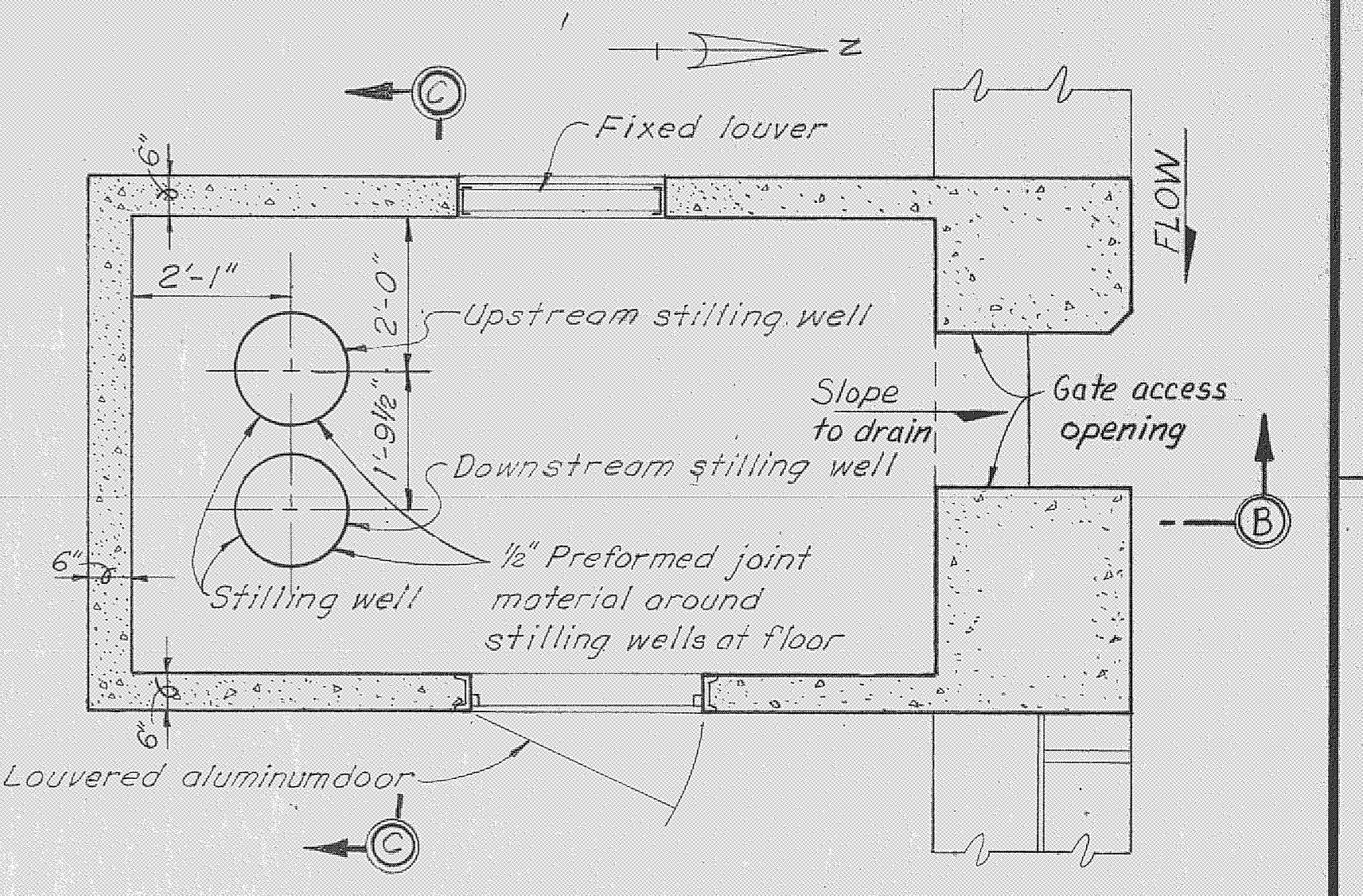
SECTIONAL PLAN
CONTROL HOUSE
SCALE: 1/2" = 1'-0"



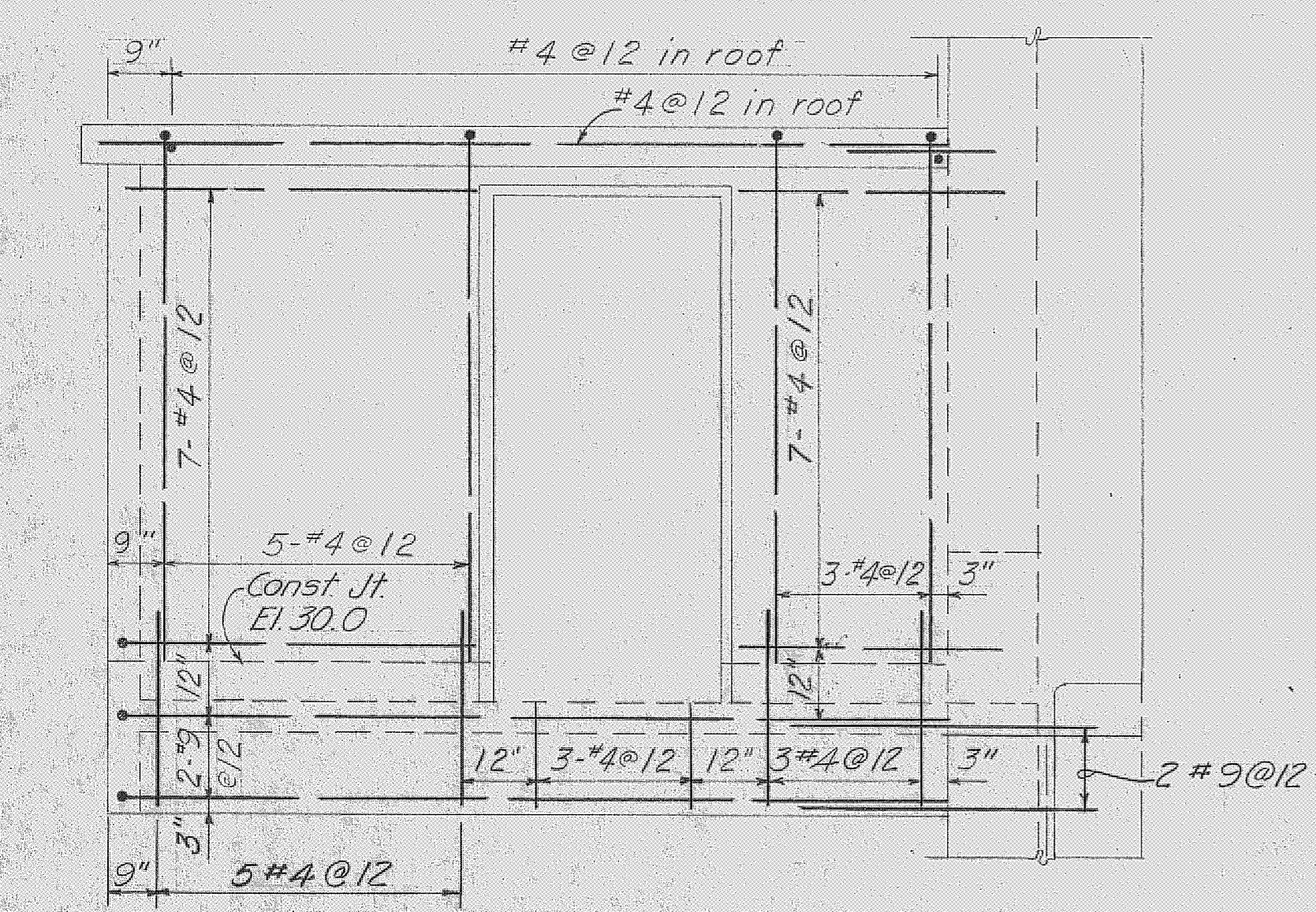
ELEVATION G-G
SCALE: 1/2" = 1'-0"



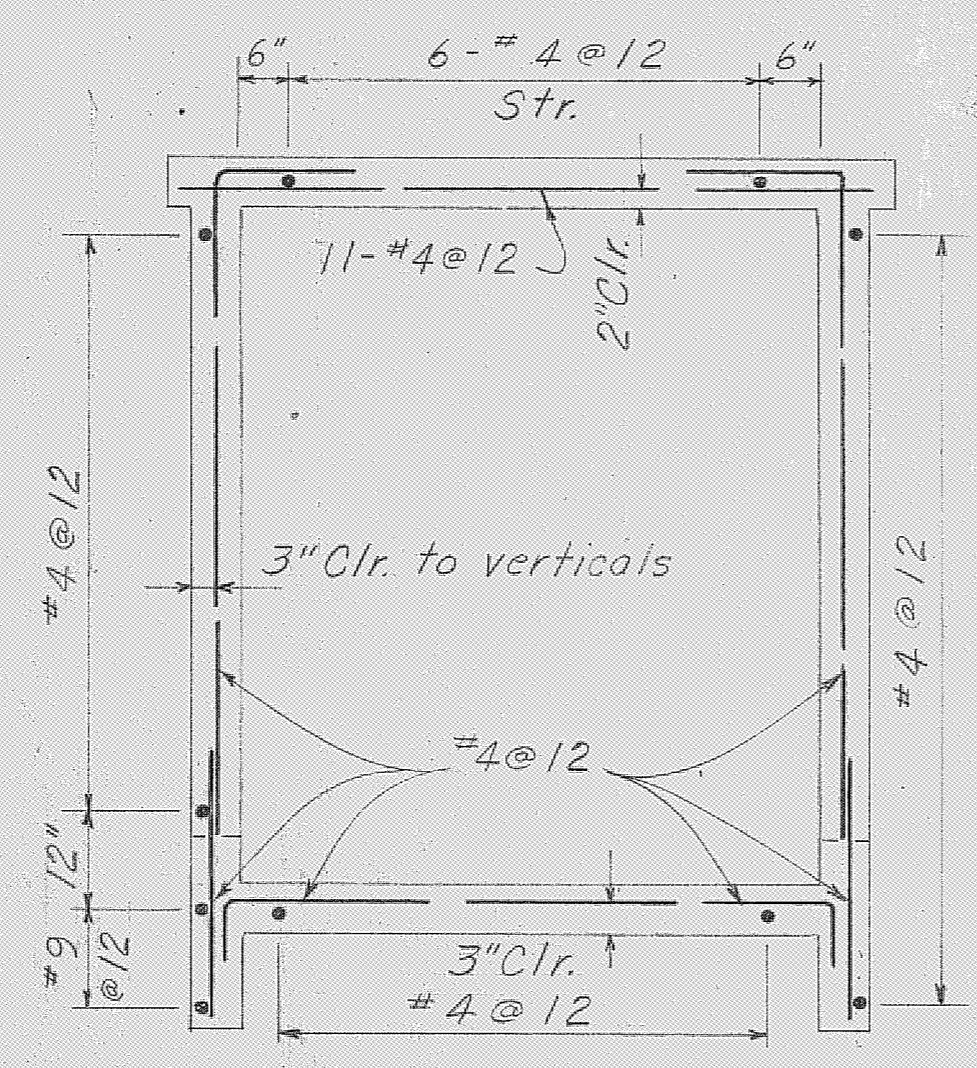
ROOF PLAN



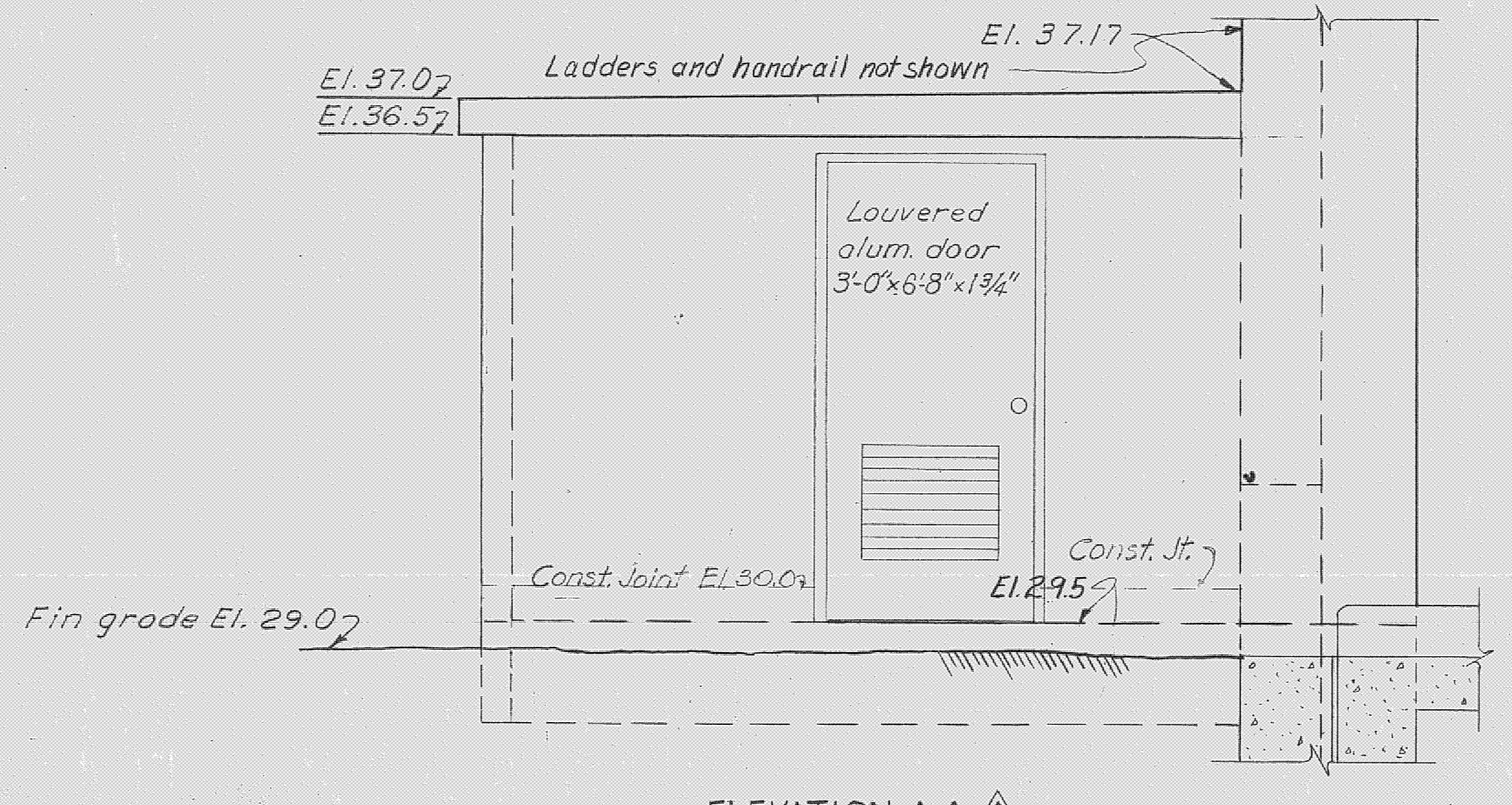
SECTIONAL PLAN
Note: Control house floor and bottom of gate access opening to be steel trowel finish.



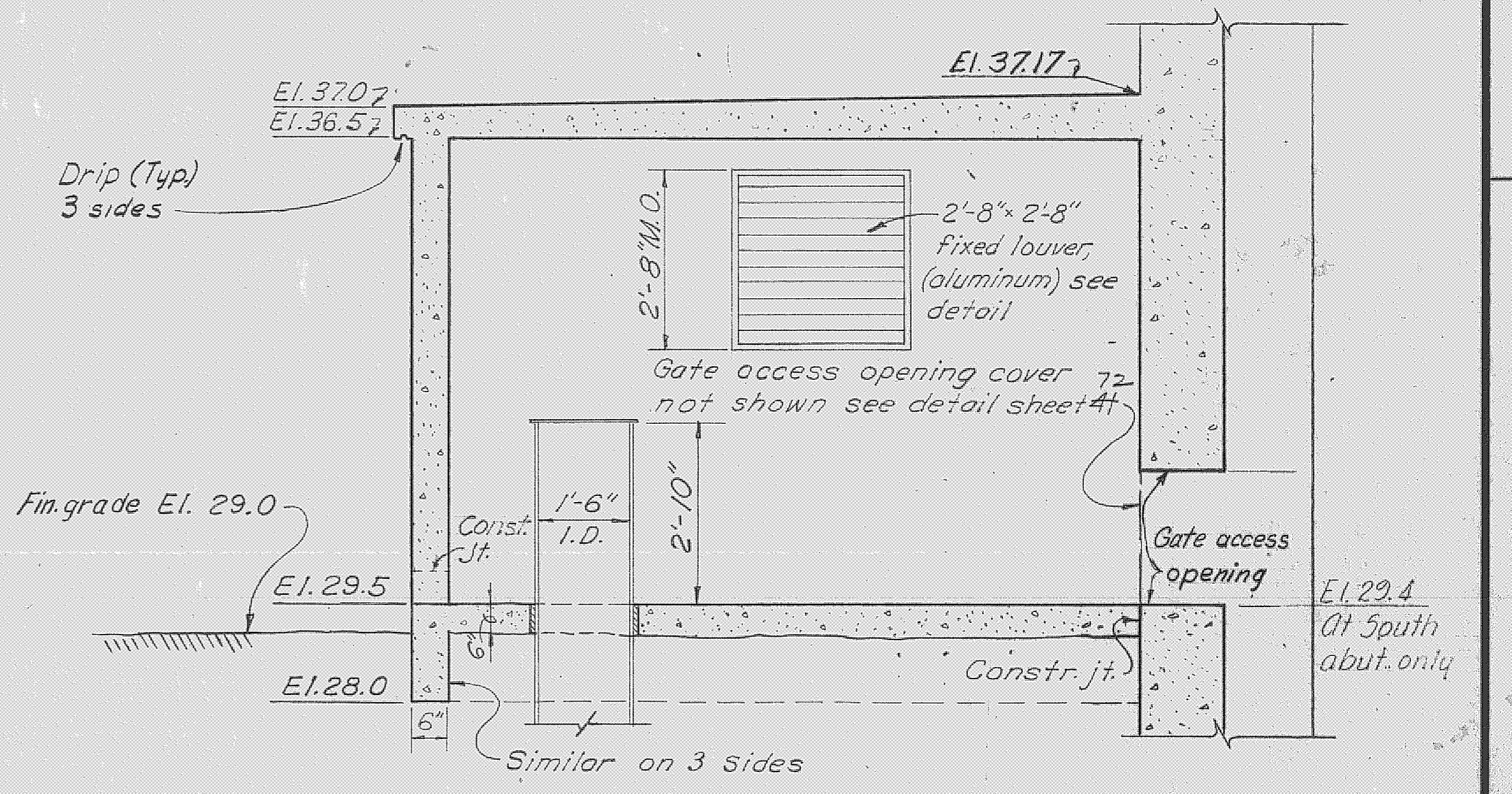
ELEVATION E-E
SCALE: 1/2" = 1'-0"



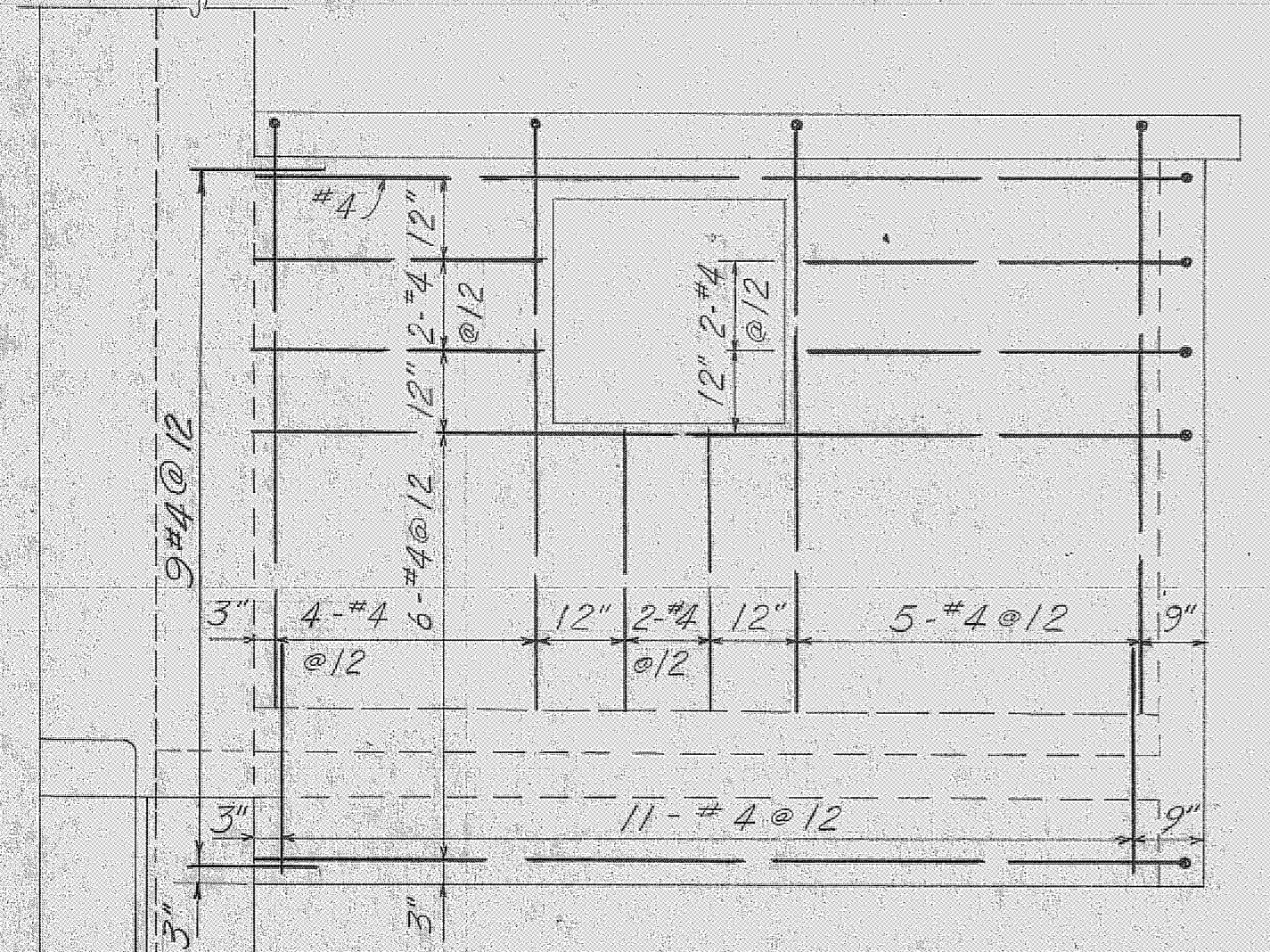
SECTION H-H
SCALE: 1/2" = 1'-0"



ELEVATION A-A



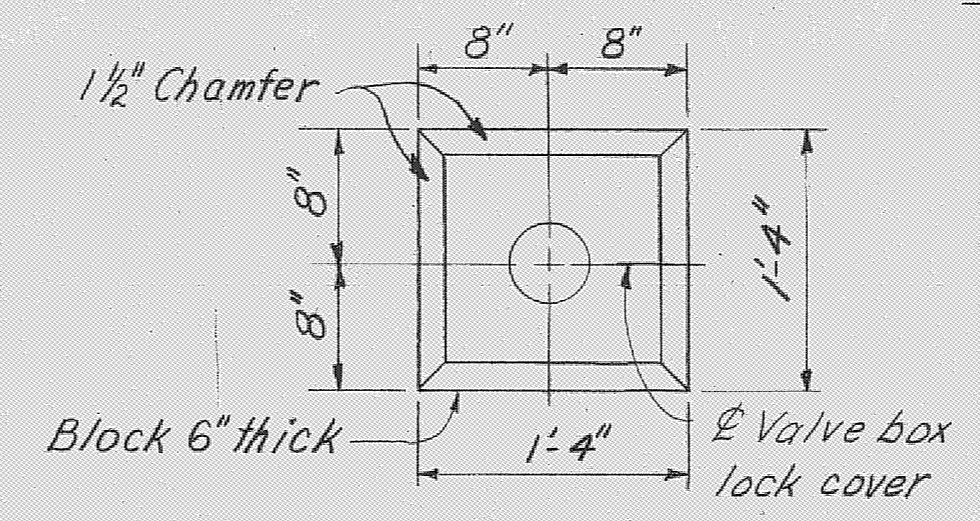
SECTION B-B



ELEVATION F-F
SCALE: 1/2" = 1'-0"

CONTROL HOUSE REINFORCEMENT

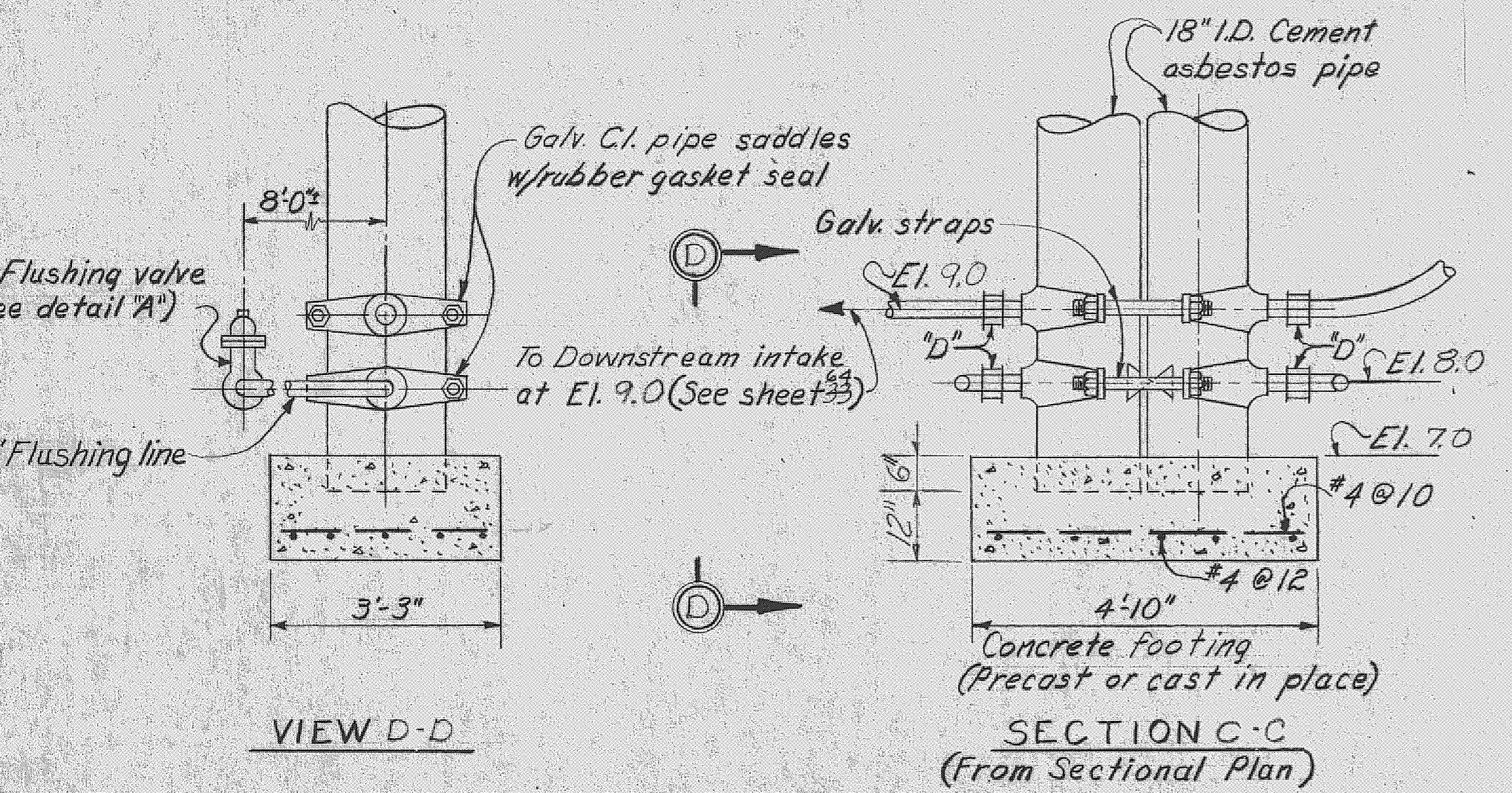
SCALE: 1/2" = 1'-0"



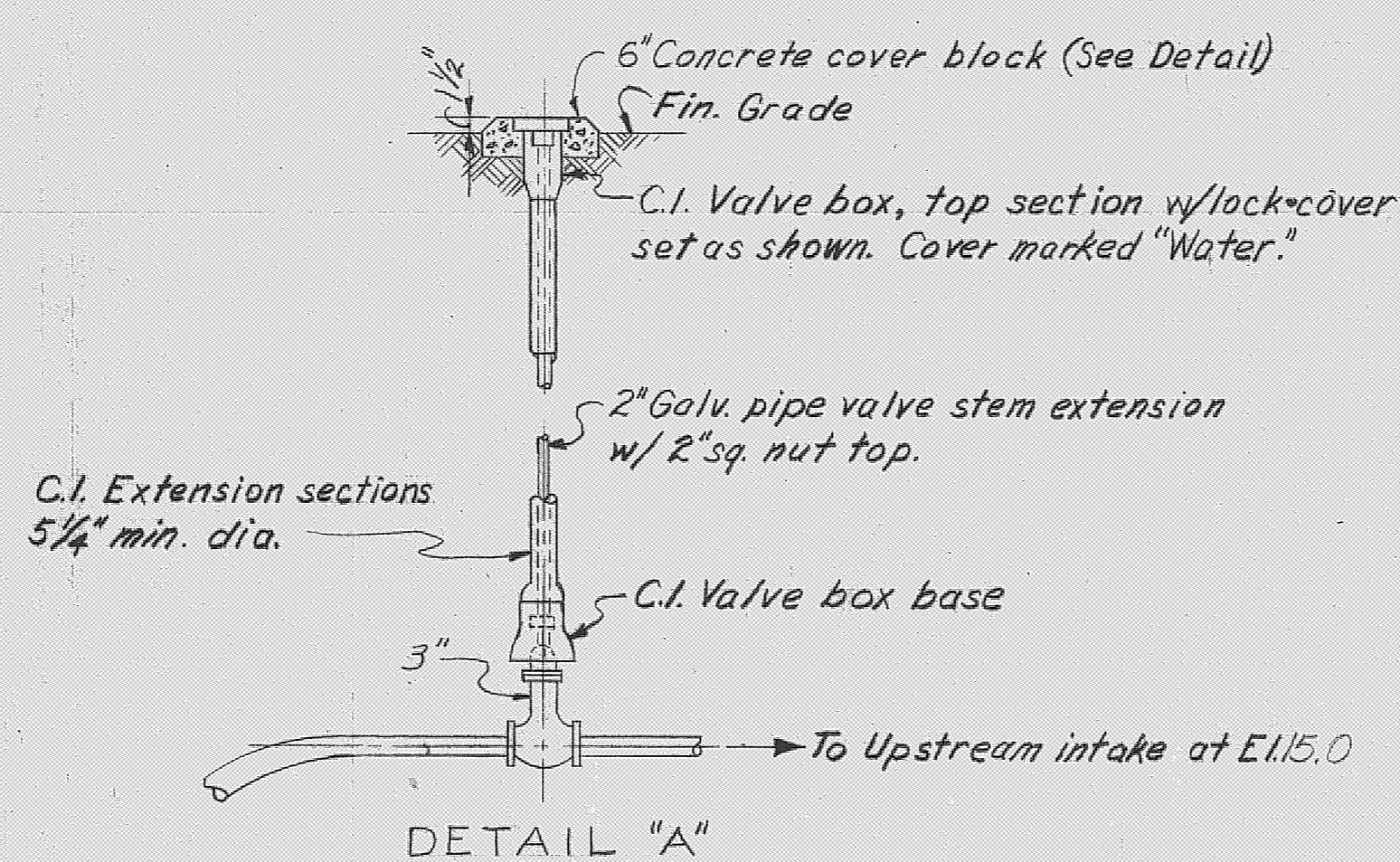
CONCRETE COVER
BLOCK FOR STILLING
WELL VALVE BOXES

CONTROL HOUSE DETAILS

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



DETAILS OF STILLING WELLS
NOT TO SCALE



DETAIL "A"

STILLING WELL NOTES

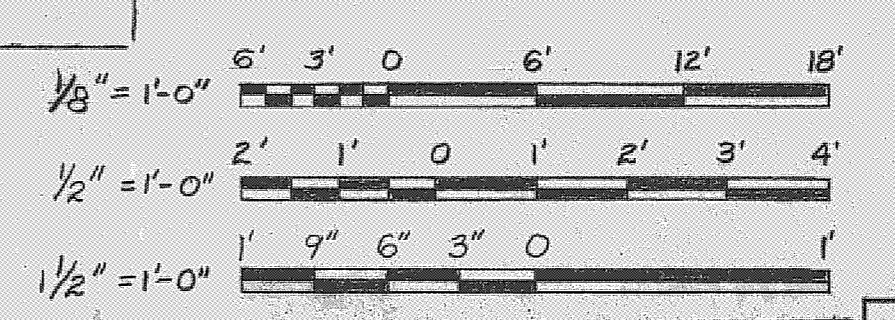
1. All piping 3" galv. steel.
2. All valves 3" iron body, 125# gates, N.R.S. brass trimmed, with 2" sq operating nut.
3. All valves to be provided with stem extensions, valve box base, extensions, top section & locking cover. Marked "Water".
4. Furnish one tee wrench 36" long with socket for 2" sq nut.
5. "D" Designates dresser coupling.

Note:
Strainer grating shall be approximately 9'x9' hinged and installed with hinges at top. Strainer face to be parallel to channel E. Strainer shall be cast iron and galvanized.

RECORD DRAWING NOTE

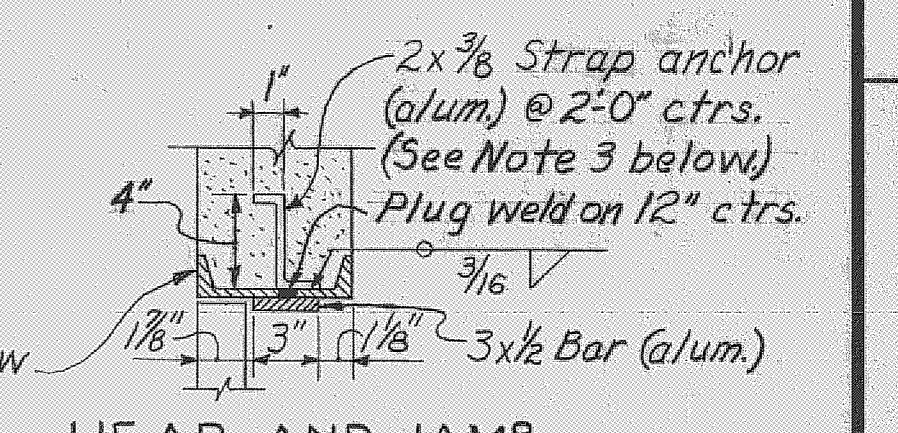
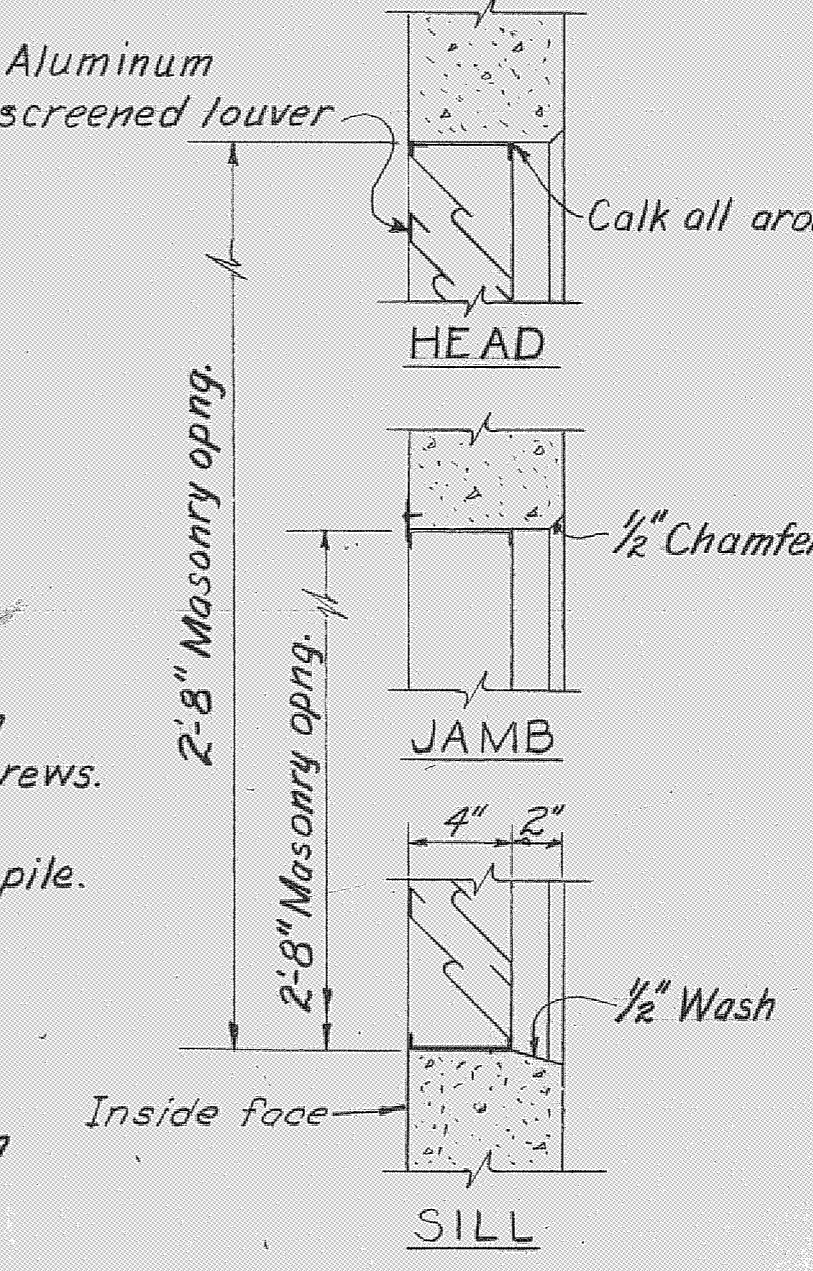
"Shall be," "Provide," "Install," "Remove," etc., indicates work was accomplished under the contract.

GRAPHIC SCALES

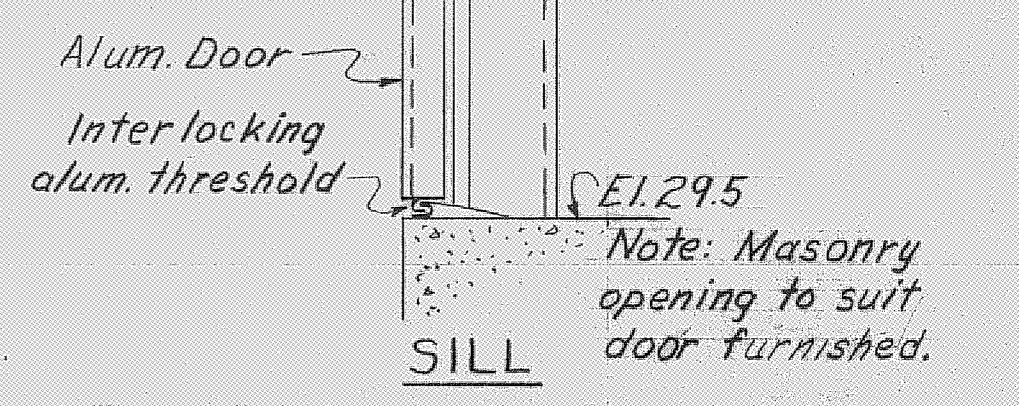


WALL LOUVER DETAIL

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



HEAD AND JAMB



SILL

DOOR DETAILS

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

- NOTES:
1. FOR "GENERAL MASONRY AND DESIGN NOTES" SEE SHEET 34.65
 2. ALL GALVANIZED ITEMS TO BE GALVANIZED AFTER FABRICATION.
 3. BACK PAINTING WITH BITUMINOUS PAINT REQUIRED FOR ALUMINUM SURFACES THAT WILL CONTACT CONCRETE (SEE SPECS.)
 4. FOR "GENERAL REINFORCEMENT" NOTES, SEE SHEET 36.47

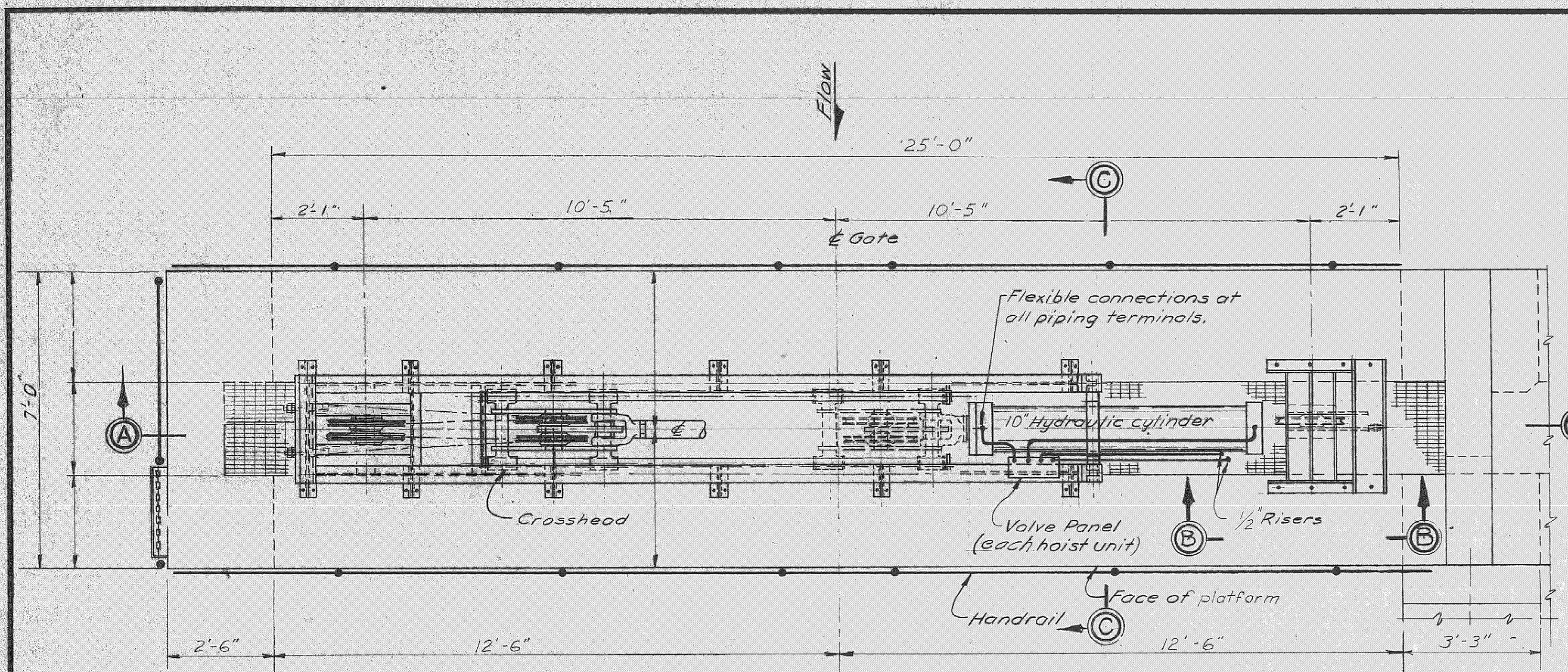
U. S. ARMY ENGINEER DISTRICT, JACKSONVILLE
CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

CENTRAL AND SOUTHERN FLORIDA PROJECT
FOR FLOOD CONTROL AND OTHER PURPOSES

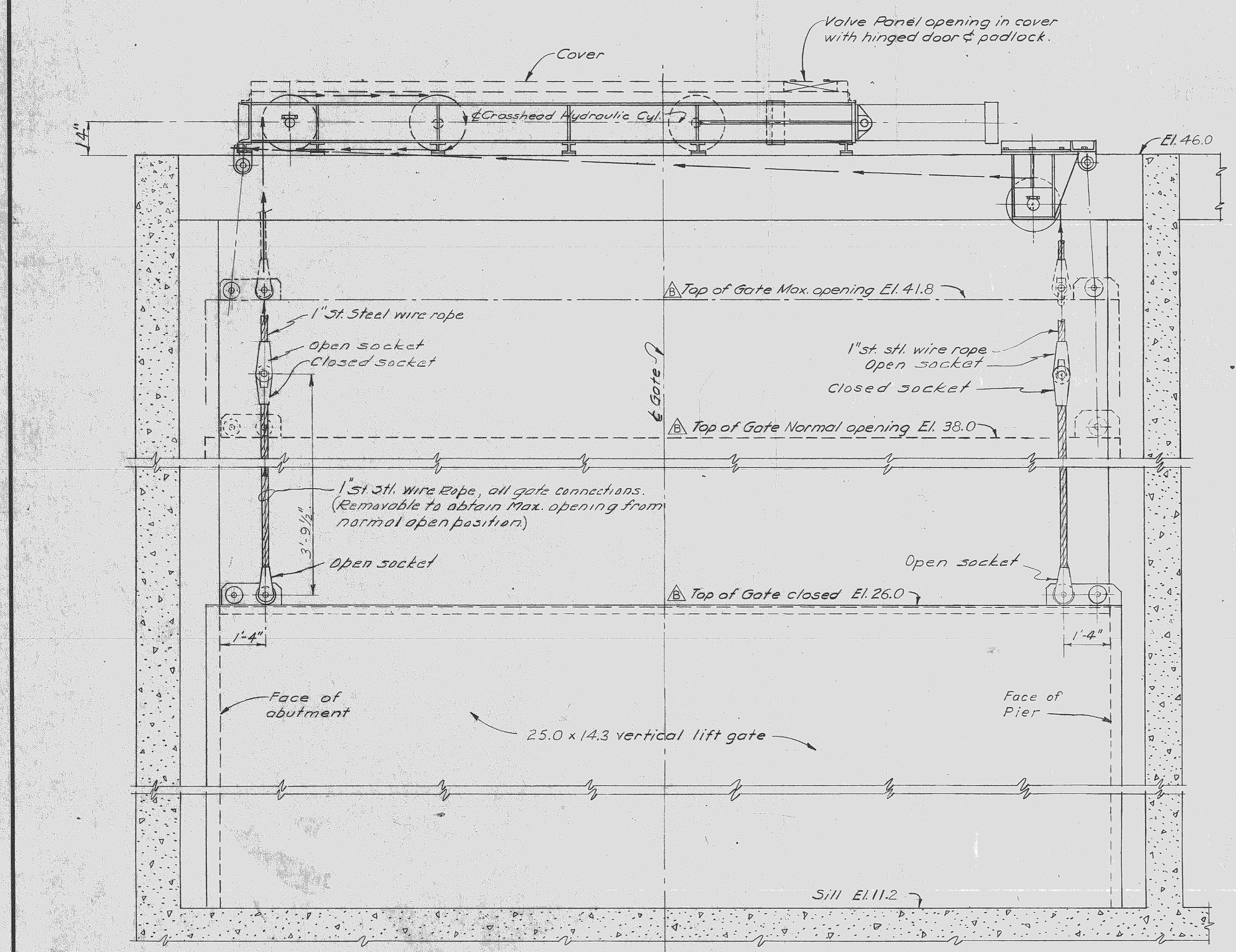
CANAL 54 SECTION 2
STRUCTURE - 96
CONTROL HOUSE AND STILLING WELLS

AS BUILT

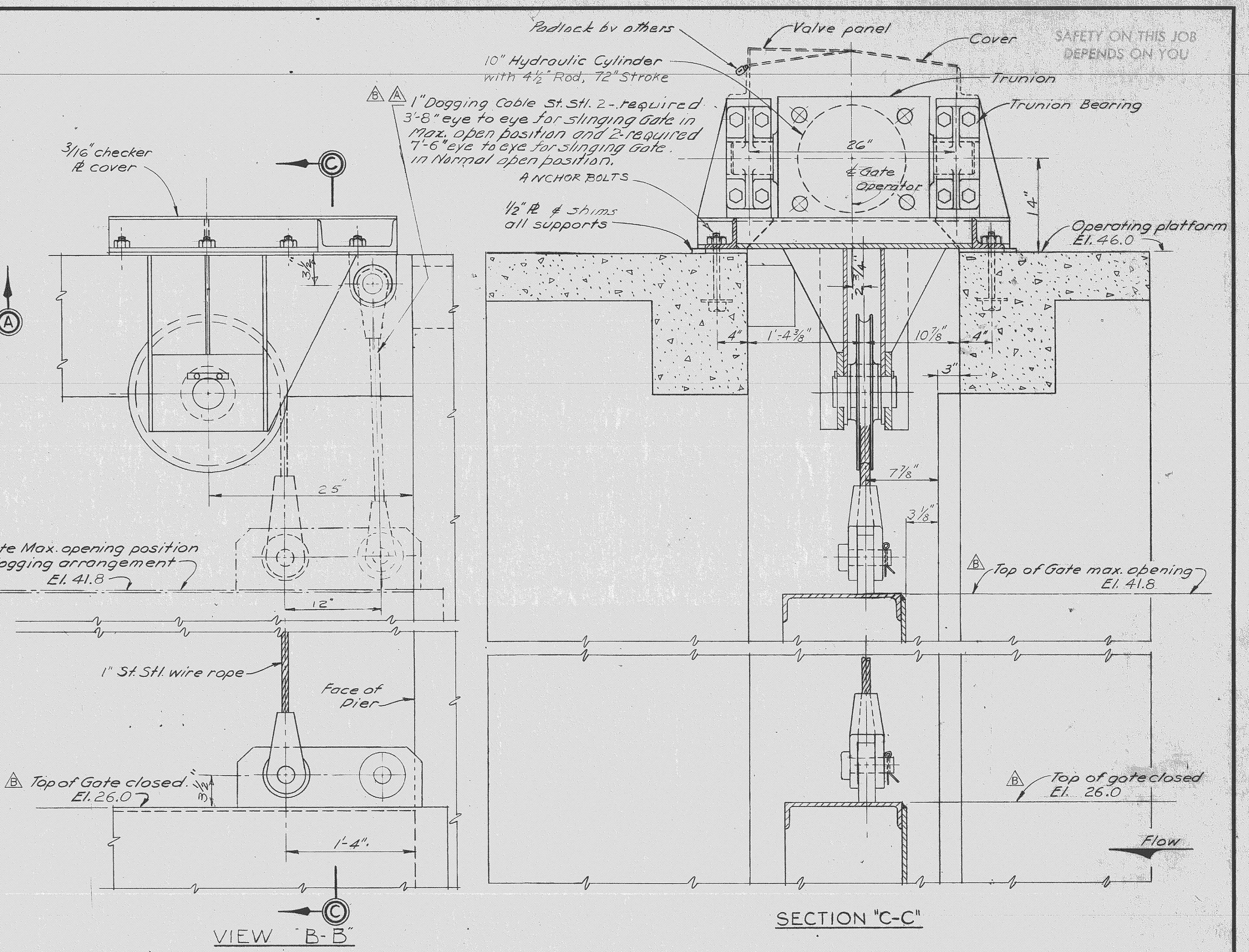
DWN. BY HHH	G.C.R.	INV. NO. CIV. ENG. 08-123-66-66	DATE 23 APRIL 1966	SHEET 44	OF 78
CHK. BY ASP	JC	SCALE: AS SHOWN	DATED: APRIL 1966		



PLAN AT OPERATING PLATFORM (TYPICAL ALL GATES) (Cover not shown)
 SCALE: 1/2" = 1'-0"



SECTION "A-A"



- Notes:
1. Estimated Gate weight 32,000 #
 2. Estimated Hoist load 43,000 #
 3. Gate Speed 6"/min. for individual operation.
 4. Working Pressure at estimated hoist load 2000 p.s.i.
 5. By positioning of Control Valves Gate will be self lowering without the use of Power Unit.

RECORD DRAWING NOTE
 "Shall be," "Provide," "Install," "Remove," etc., indicates work was accomplished under the contract.

AS BUILT

8	CHANGED HEIGHT OF GATE TO ACCOMPANY MOD. TO CONTRACT 66-103	8-2-66
2	TO CONFORM TO AMENDMENT NO. 1	5-12-66
NO	SYMBOL	ZONE
	DESCRIPTION	DATE
	REVISIONS	APPROVED:

U. S. ARMY ENGINEER DISTRICT, JACKSONVILLE
 CORPS OF ENGINEERS
 JACKSONVILLE, FLORIDA
 CENTRAL AND SOUTHERN FLORIDA PROJECT
 FOR FLOOD CONTROL AND OTHER PURPOSES
 CANAL 54, SECTION 2
 STRUCTURE-96

GATE, HOIST - GENERAL ARRANGEMENT
 INVITATION NO. CIV. ENG. 08-123-66-66
 DATED: 28 APRIL 1966
 SCALE: AS SHOWN DATE: APRIL 1966 SHEET 4 OF 72