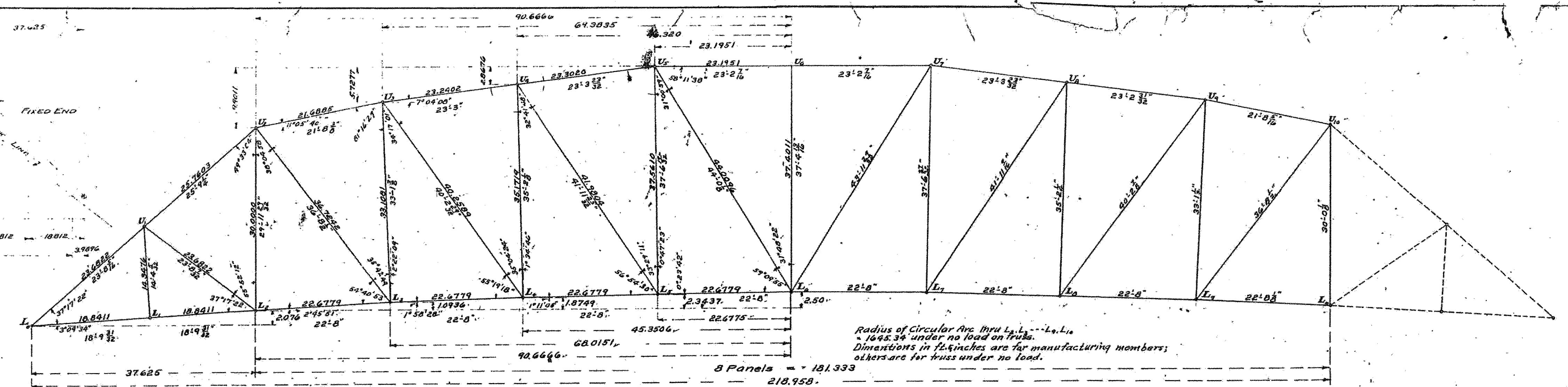
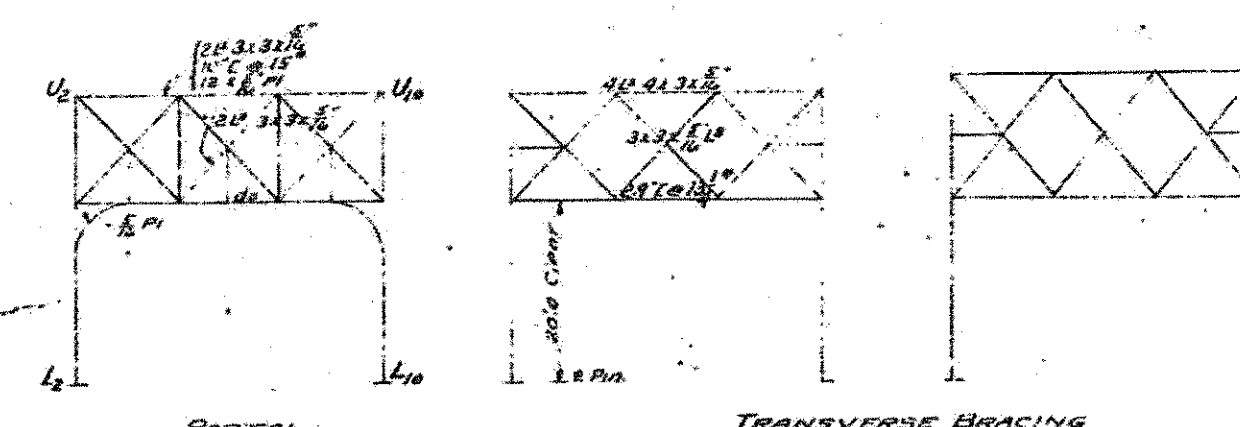


GENERAL LAYOUT OF BRIDGE



Bidders are advised to field-verify information presented. The data shown herein is not part of the plans, proposal, or contract, and is not to be considered as a basis for any purpose.

FOR REFERENCE ONLY

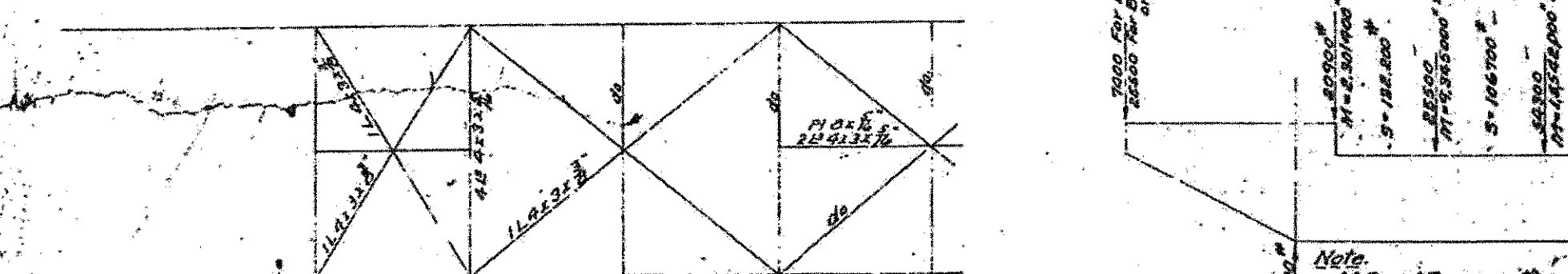
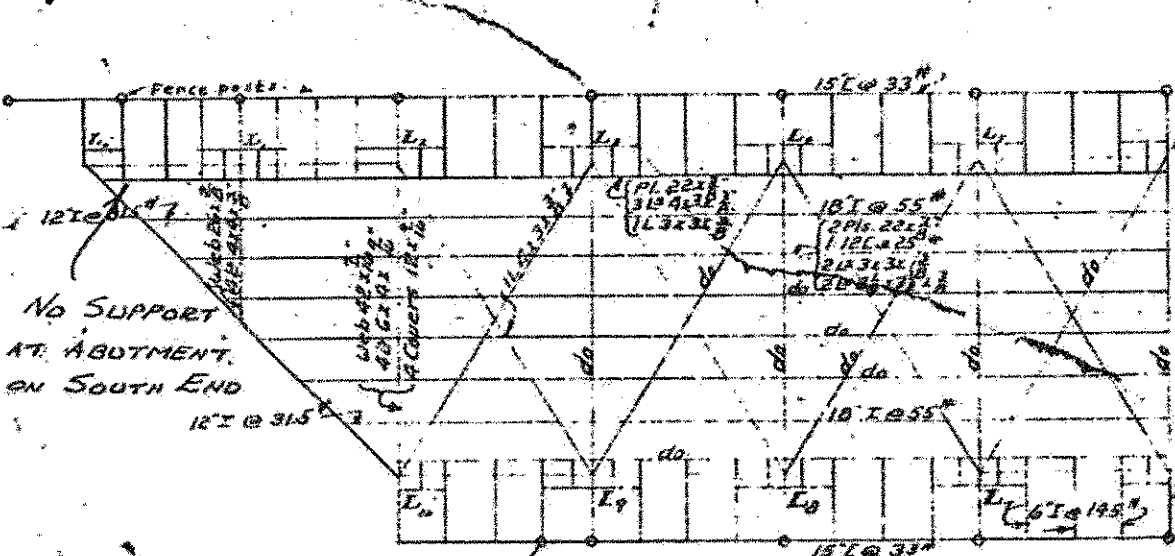
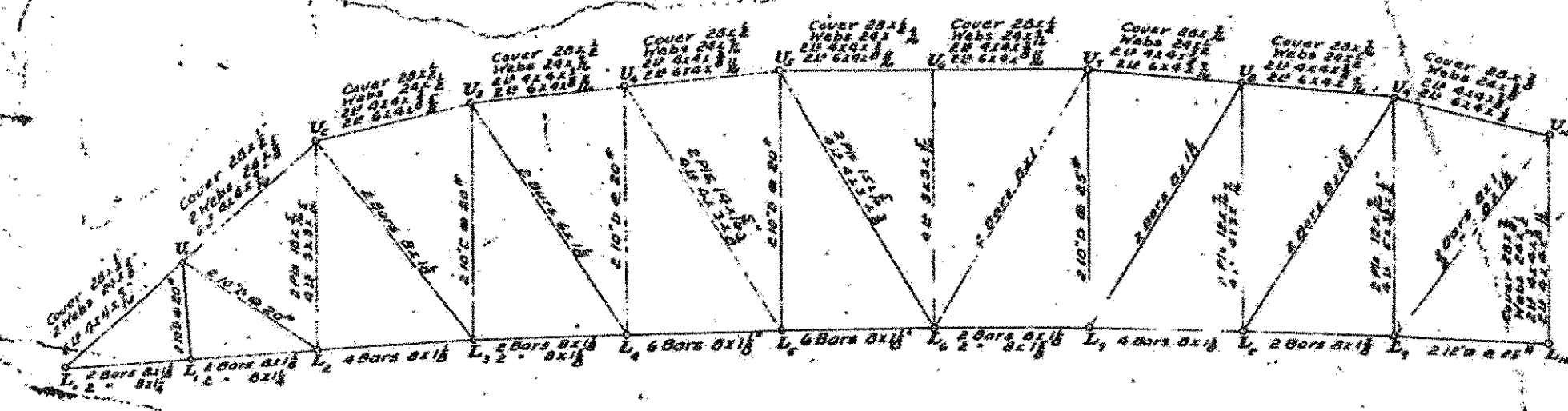
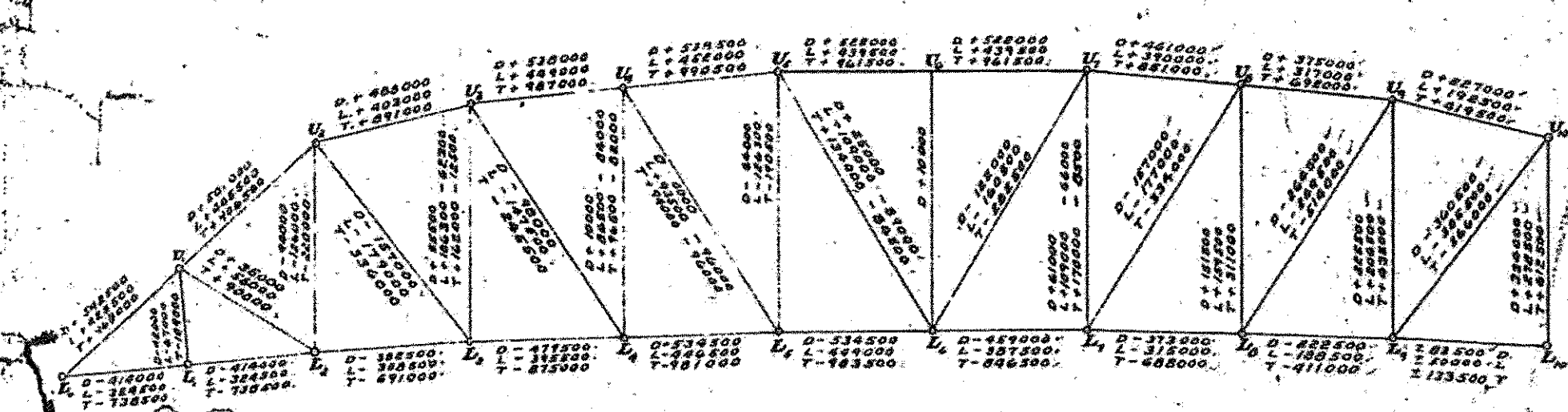


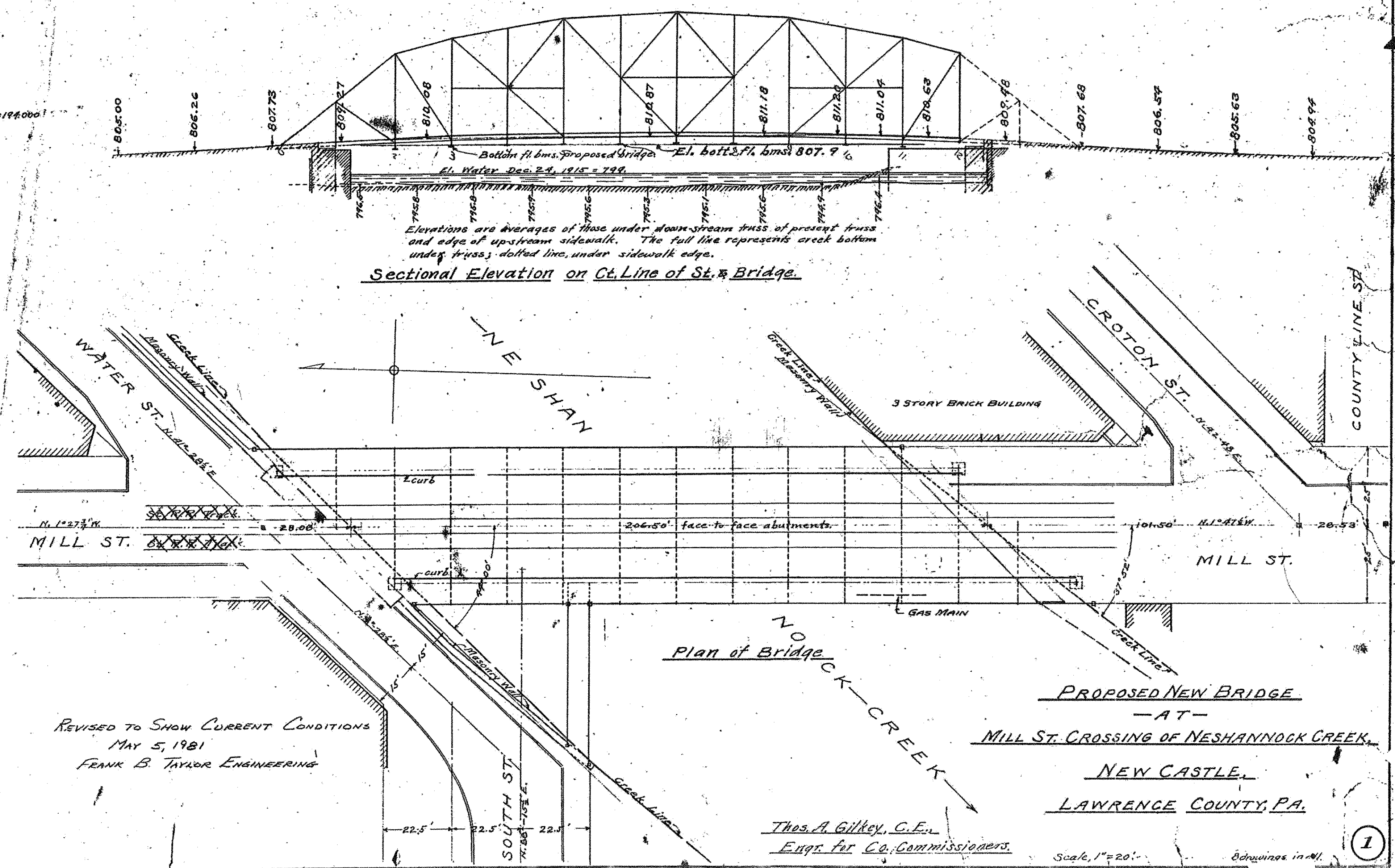
Table of member lengths and weights:

Member	Length	Weight
U1-U2	10.000'	1.000'
U2-U3	10.000'	1.000'
U3-U4	10.000'	1.000'
U4-U5	10.000'	1.000'
U5-U6	10.000'	1.000'
U6-U7	10.000'	1.000'
U7-U8	10.000'	1.000'
U8-U9	10.000'	1.000'
U9-U10	10.000'	1.000'
U10-U11	10.000'	1.000'
U11-U12	10.000'	1.000'
U12-U13	10.000'	1.000'
U13-U14	10.000'	1.000'
U14-U15	10.000'	1.000'
U15-U16	10.000'	1.000'
U16-U17	10.000'	1.000'
U17-U18	10.000'	1.000'
U18-U19	10.000'	1.000'
U19-U20	10.000'	1.000'
U20-U21	10.000'	1.000'
U21-U22	10.000'	1.000'
U22-U23	10.000'	1.000'
U23-U24	10.000'	1.000'
U24-U25	10.000'	1.000'
U25-U26	10.000'	1.000'
U26-U27	10.000'	1.000'
U27-U28	10.000'	1.000'
U28-U29	10.000'	1.000'
U29-U30	10.000'	1.000'
U30-U31	10.000'	1.000'
U31-U32	10.000'	1.000'
U32-U33	10.000'	1.000'
U33-U34	10.000'	1.000'
U34-U35	10.000'	1.000'
U35-U36	10.000'	1.000'
U36-U37	10.000'	1.000'
U37-U38	10.000'	1.000'
U38-U39	10.000'	1.000'
U39-U40	10.000'	1.000'
U40-U41	10.000'	1.000'
U41-U42	10.000'	1.000'
U42-U43	10.000'	1.000'
U43-U44	10.000'	1.000'
U44-U45	10.000'	1.000'
U45-U46	10.000'	1.000'
U46-U47	10.000'	1.000'
U47-U48	10.000'	1.000'
U48-U49	10.000'	1.000'
U49-U50	10.000'	1.000'
U50-U51	10.000'	1.000'
U51-U52	10.000'	1.000'
U52-U53	10.000'	1.000'
U53-U54	10.000'	1.000'
U54-U55	10.000'	1.000'
U55-U56	10.000'	1.000'
U56-U57	10.000'	1.000'
U57-U58	10.000'	1.000'
U58-U59	10.000'	1.000'
U59-U60	10.000'	1.000'
U60-U61	10.000'	1.000'
U61-U62	10.000'	1.000'
U62-U63	10.000'	1.000'
U63-U64	10.000'	1.000'
U64-U65	10.000'	1.000'
U65-U66	10.000'	1.000'
U66-U67	10.000'	1.000'
U67-U68	10.000'	1.000'
U68-U69	10.000'	1.000'
U69-U70	10.000'	1.000'
U70-U71	10.000'	1.000'
U71-U72	10.000'	1.000'
U72-U73	10.000'	1.000'
U73-U74	10.000'	1.000'
U74-U75	10.000'	1.000'
U75-U76	10.000'	1.000'
U76-U77	10.000'	1.000'
U77-U78	10.000'	1.000'
U78-U79	10.000'	1.000'
U79-U80	10.000'	1.000'
U80-U81	10.000'	1.000'
U81-U82	10.000'	1.000'
U82-U83	10.000'	1.000'
U83-U84	10.000'	1.000'
U84-U85	10.000'	1.000'
U85-U86	10.000'	1.000'
U86-U87	10.000'	1.000'
U87-U88	10.000'	1.000'
U88-U89	10.000'	1.000'
U89-U90	10.000'	1.000'
U90-U91	10.000'	1.000'
U91-U92	10.000'	1.000'
U92-U93	10.000'	1.000'
U93-U94	10.000'	1.000'
U94-U95	10.000'	1.000'
U95-U96	10.000'	1.000'
U96-U97	10.000'	1.000'
U97-U98	10.000'	1.000'
U98-U99	10.000'	1.000'
U99-U100	10.000'	1.000'



Approved 1917  
Co. Commissioners

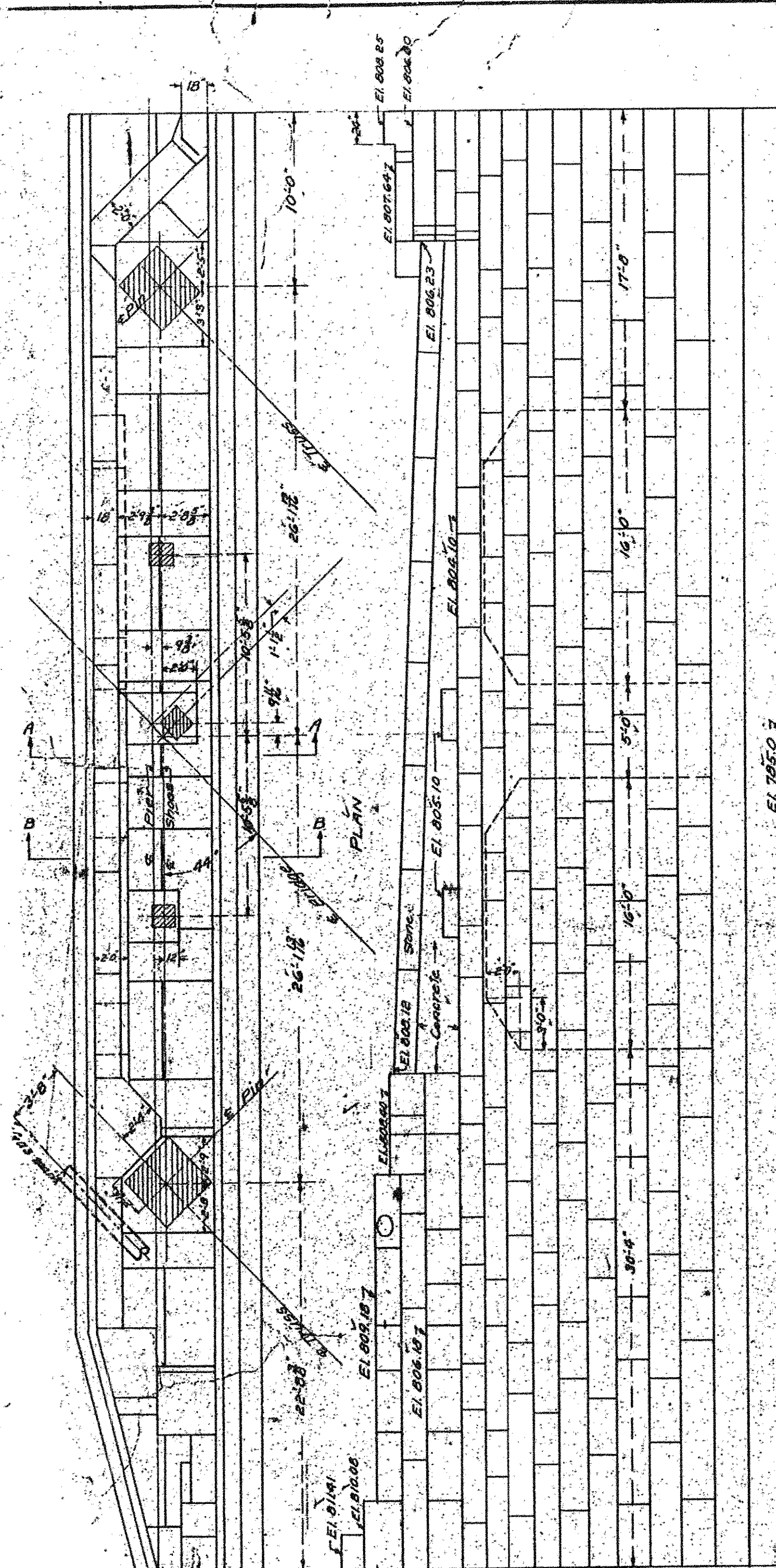
REVISED TO SHOW CURRENT CONDITIONS  
MAY 5, 1981  
FRANK B. TAYLOR ENGINEERING



Thos. A. Gilkey, C.E.  
Engr. for Co. Commissioners

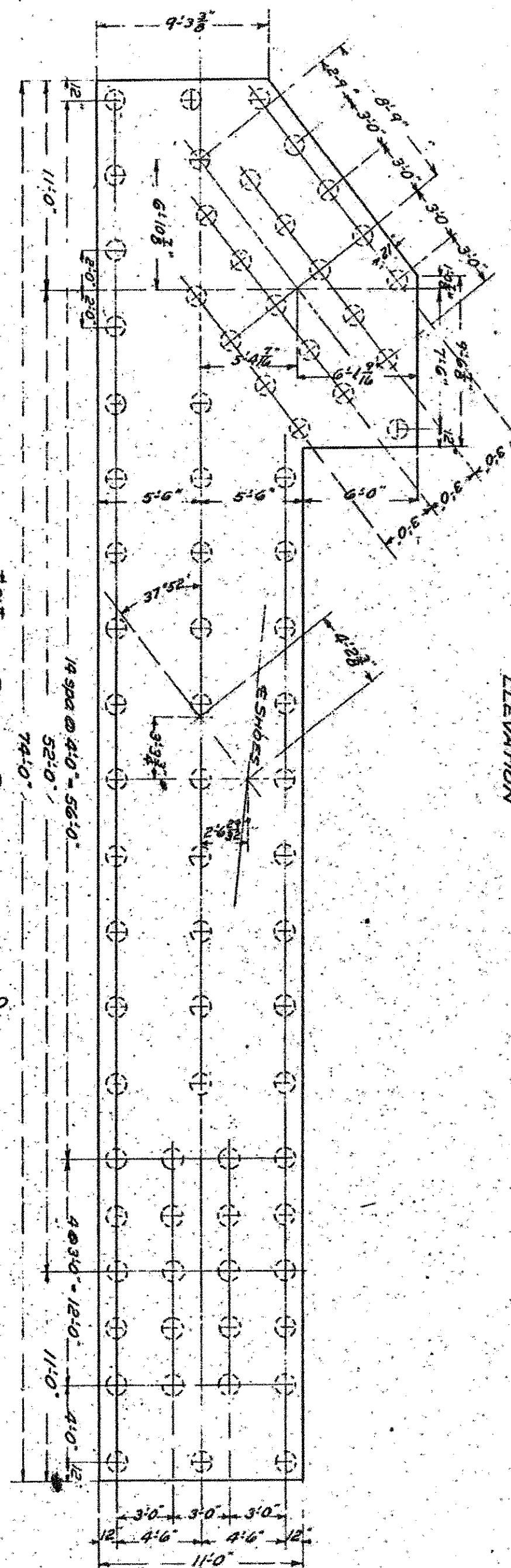
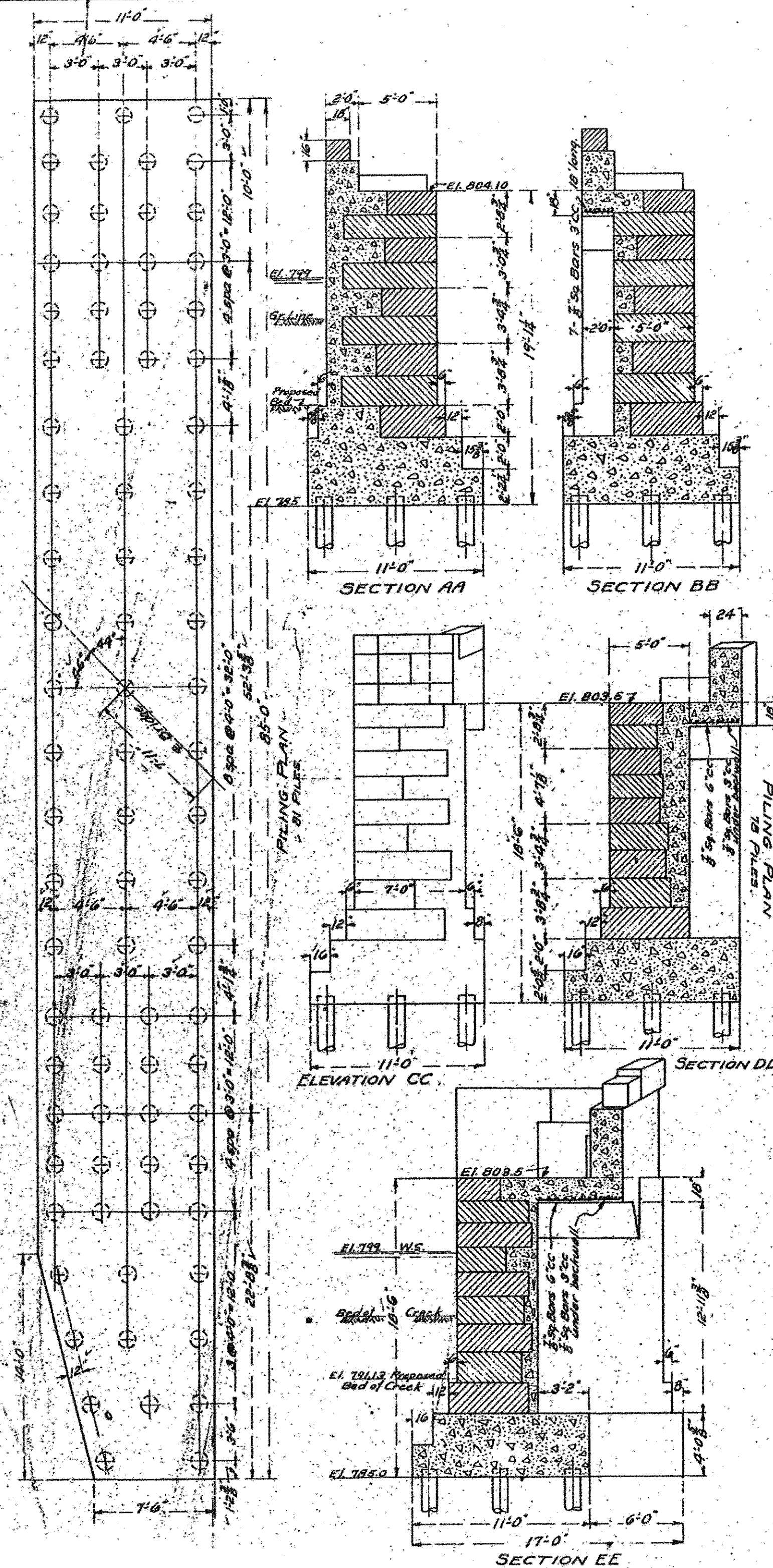
Scale, 1"=20'  
Drawings in 1/4"





NORTH ABUTMENT

ELEVATION



SOUTH ABUTMENT

Bidders are advised to field-verify information presented. The data shown herein is not part of the plans, proposal, or contract, and is not to be considered as a basis for any purpose.

FOR REFERENCE ONLY

Approved, 1917,  
 \_\_\_\_\_  
 \_\_\_\_\_  
 Co. Commissioners

BRIDGE OVER NESHANNOCK CREEK  
 AT MILL ST., NEW CASTLE  
 LAWRENCE CO., PA.

Thos. A. Gilkey, C.E.,  
 Engineer for Commissioners

Scale 1/4"=1'-0" 8 drawings 11'-0"



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REVISED TO SHOW  
CURRENT CONDITIONS  
MAY 5, 1981  
FRANK B. TAYLOR ENGINEERING

For details of Shoe, Bolster  
and Rockers see drawing #6

Notes: c to c = c to c of pin holes.  
End post and top chord,  $\frac{3}{8}$  dia. rivets.  
Web members  $\frac{1}{2}$  dia. rivets and  $\frac{1}{2}$  dia.  
open holes except as noted.  
Pins  $\frac{3}{4}$  diam.

Approved, \_\_\_\_\_ 1917,  
\_\_\_\_\_  
C. Commissioners.

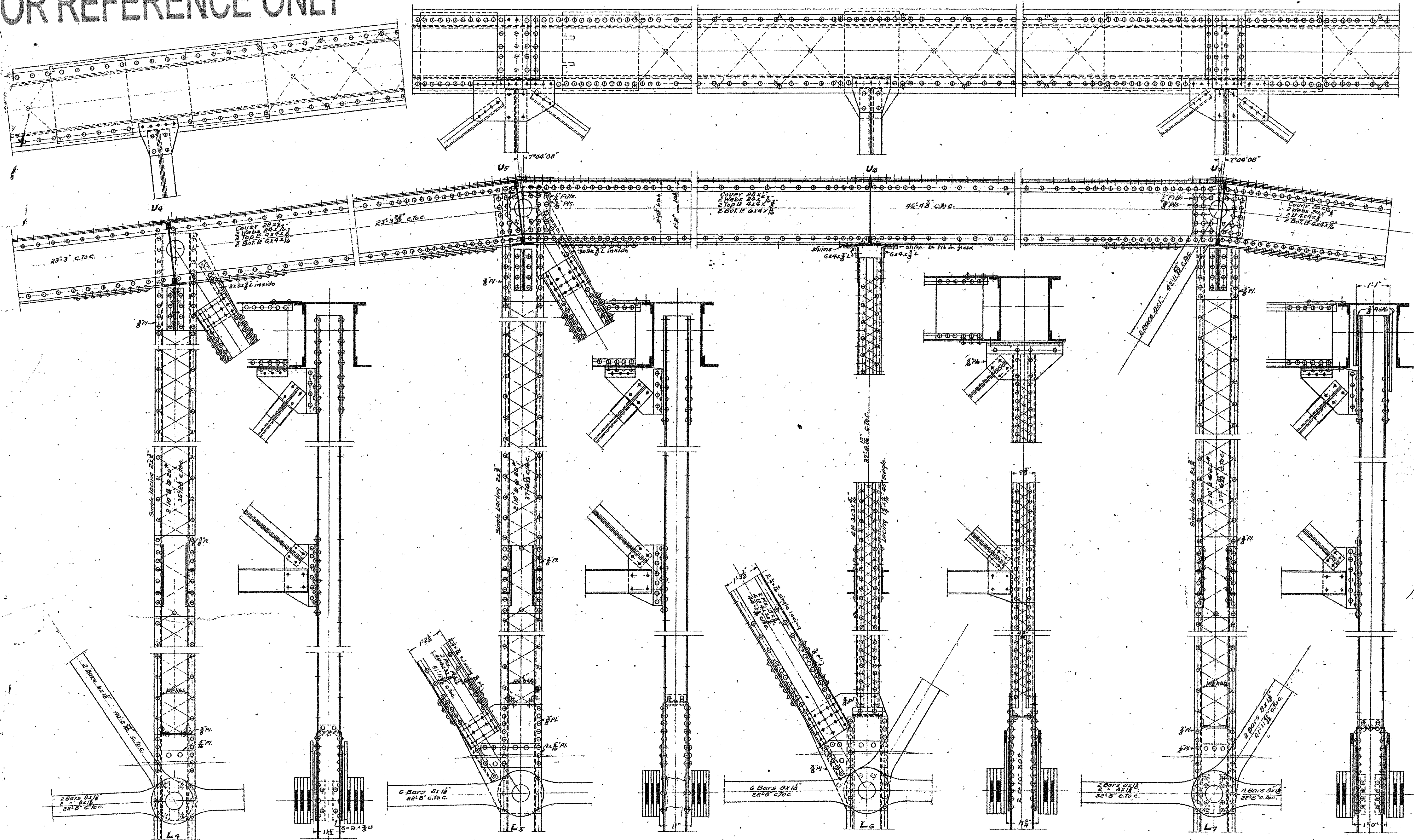
BRIDGE OVER NESHANNOCK CREEK  
AT MILL ST., NEW CASTLE  
LAWRENCE CO., PA.

Thos. A. Gilkey, C.E.,  
Engineer for Commissioners.

Scale  $\frac{1}{4}" = 1'-0"$  8 drawings in all.



FOR REFERENCE ONLY



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REVISED TO SHOW CURRENT CONDITIONS  
MAY 5, 1981  
FRANK B. TAYLOR ENGINEERING

Note: c.to.c. - c.to.c. of pin holes.  
End post and top chord 3/4" dia rivets.  
Web members 3/4" dia rivets and 1/2" dia  
open holes except as noted.

Approved: *John E. ...* 1917,  
*Miller*  
Co. Commissioners.

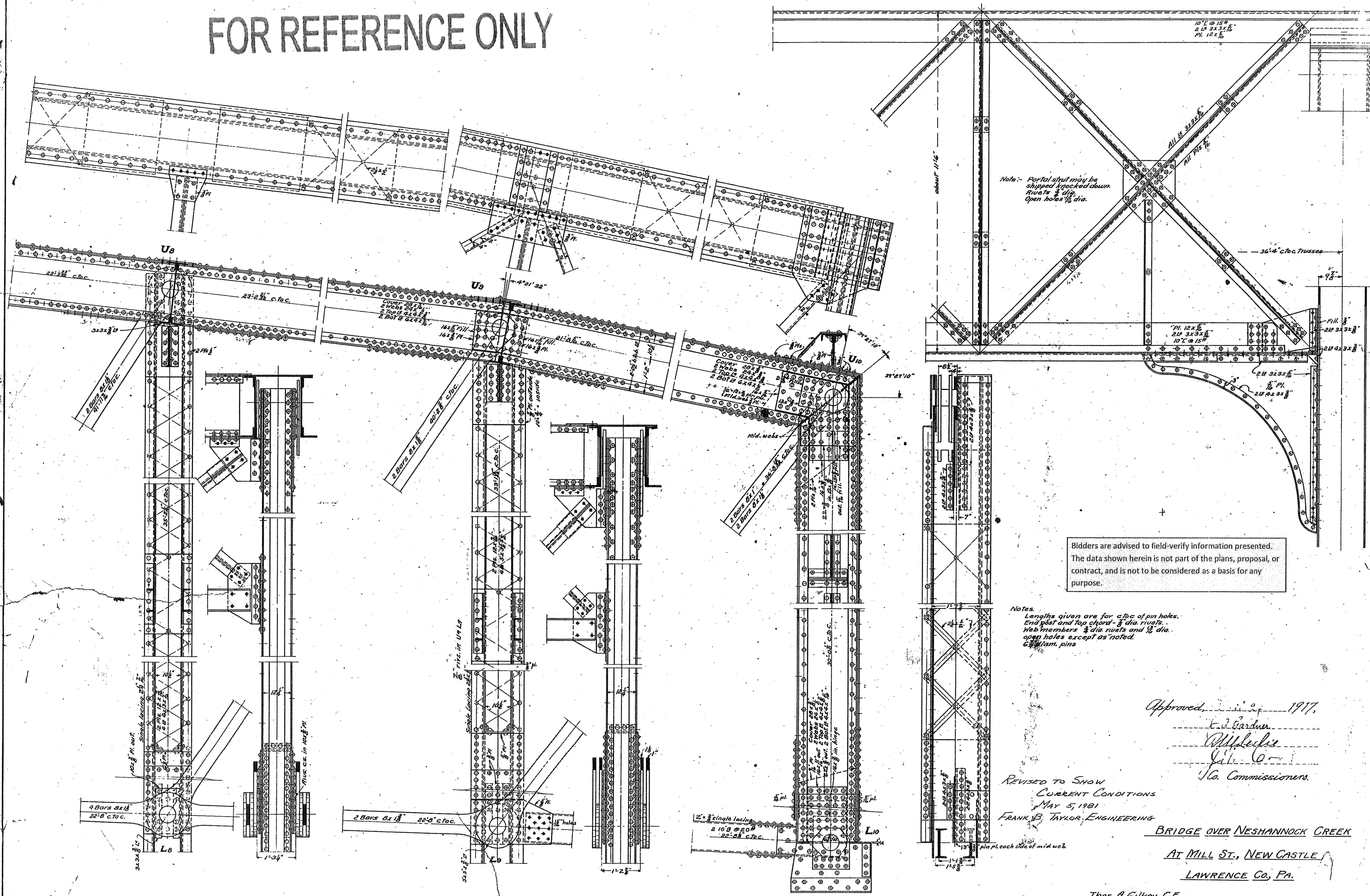
BRIDGE OVER NESHANNOCK CREEK  
AT MILL ST., NEW CASTLE  
LAWRENCE CO., PA.

Thos. A. Gilkey, C.E.,  
Engineer for Commissioners.

Scale 3/4" = 1'-0" 8 drawings in all.



# FOR REFERENCE ONLY



Note: Portal strut may be shipped knocked down. Rivets  $\frac{3}{4}$  dia. Open holes  $\frac{1}{8}$  dia.

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Notes.  
Lengths given are for c/c of pin holes.  
End post and top chord -  $\frac{3}{4}$  dia. rivets.  
Web members  $\frac{3}{4}$  dia. rivets and  $\frac{1}{8}$  dia. open holes except as noted.  
6" diam. pins

Approved, \_\_\_\_\_ 1917.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
No. Commissioners.

REVISED TO SHOW  
CURRENT CONDITIONS  
MAY 5, 1981  
FRANK B. TAYLOR, ENGINEERING

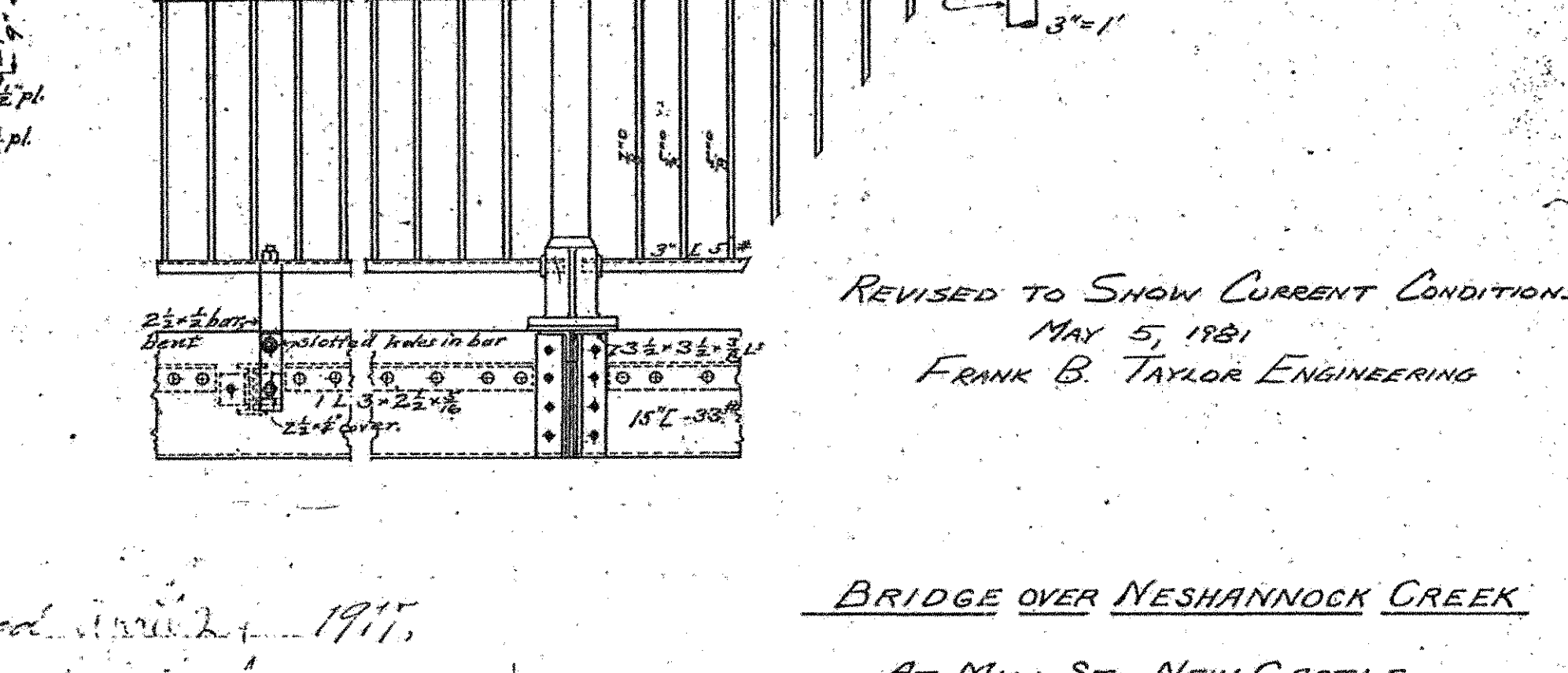
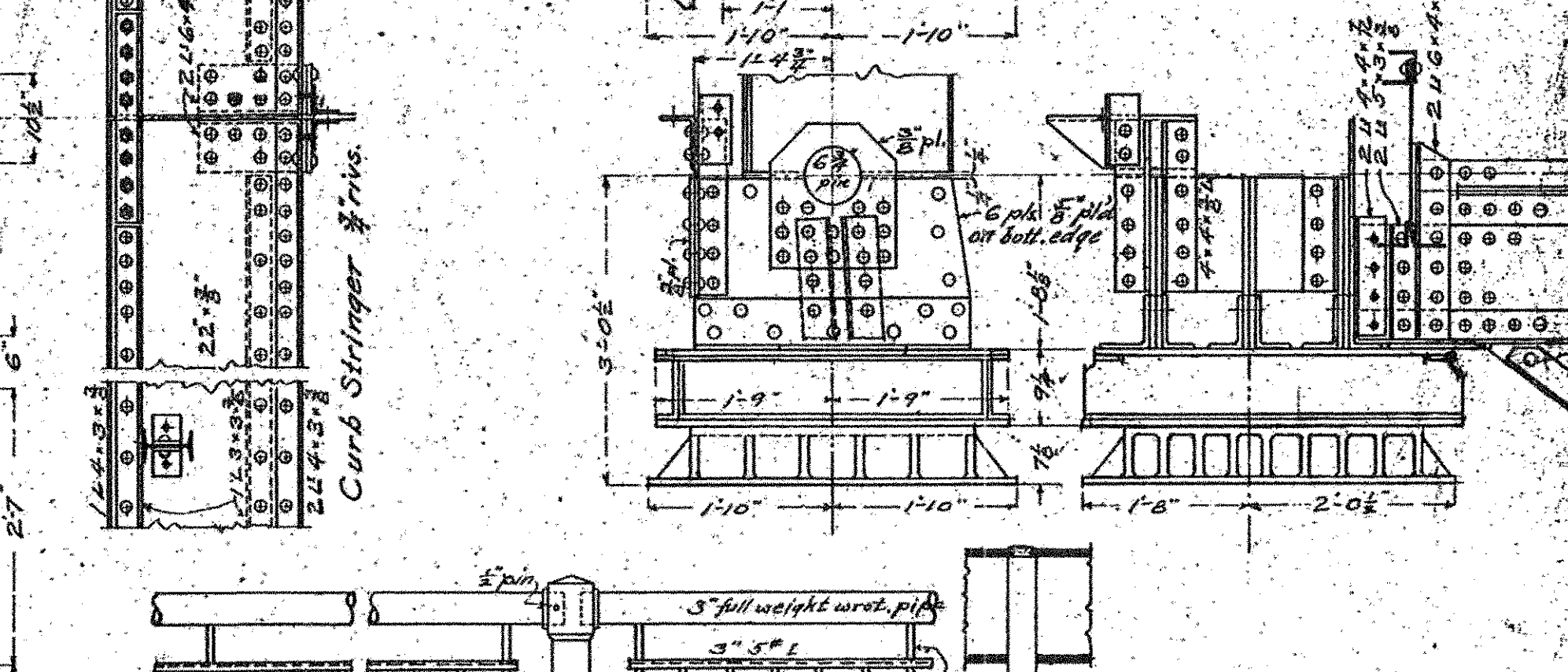
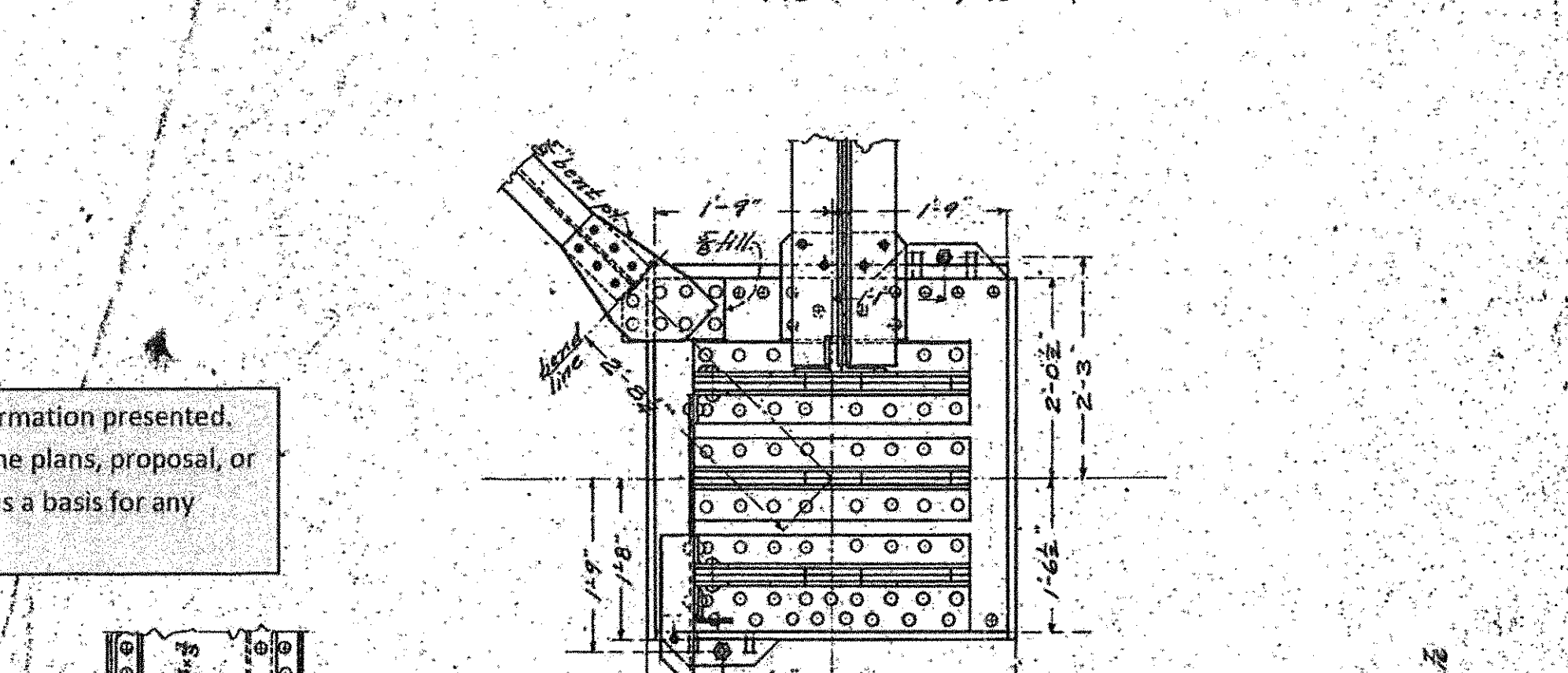
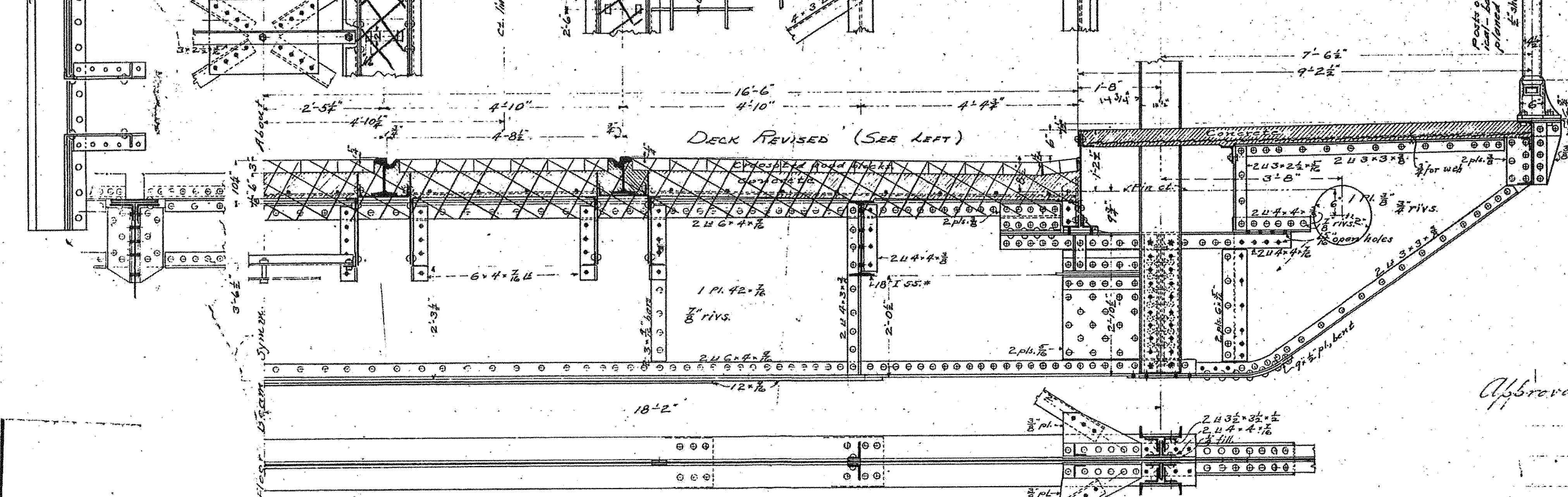
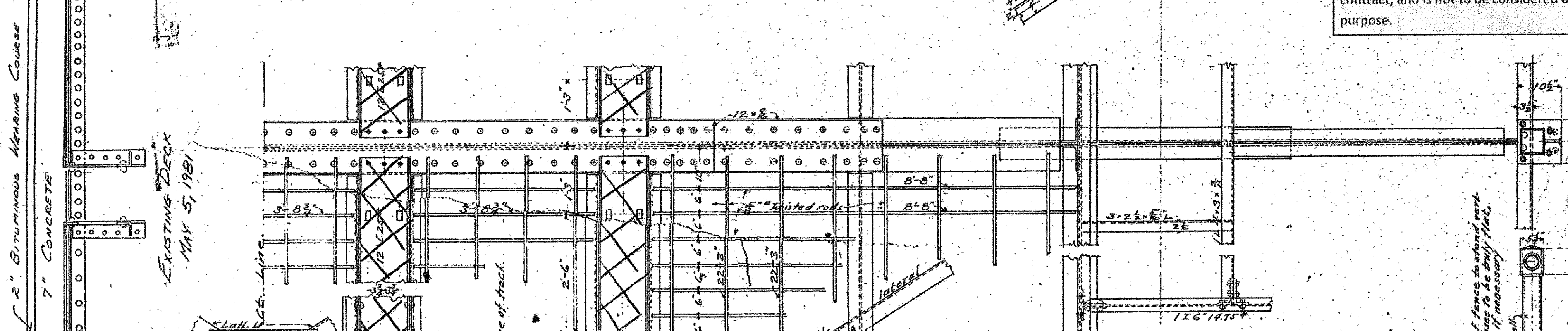
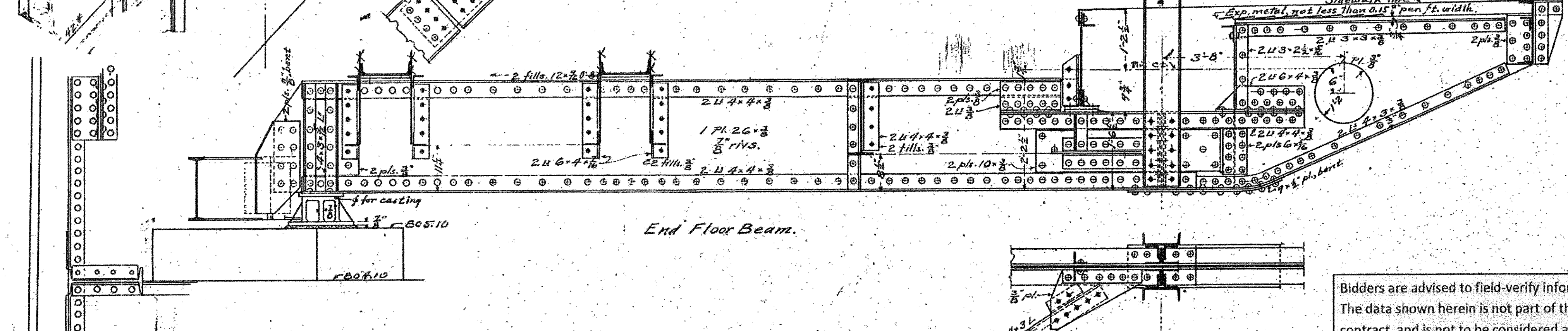
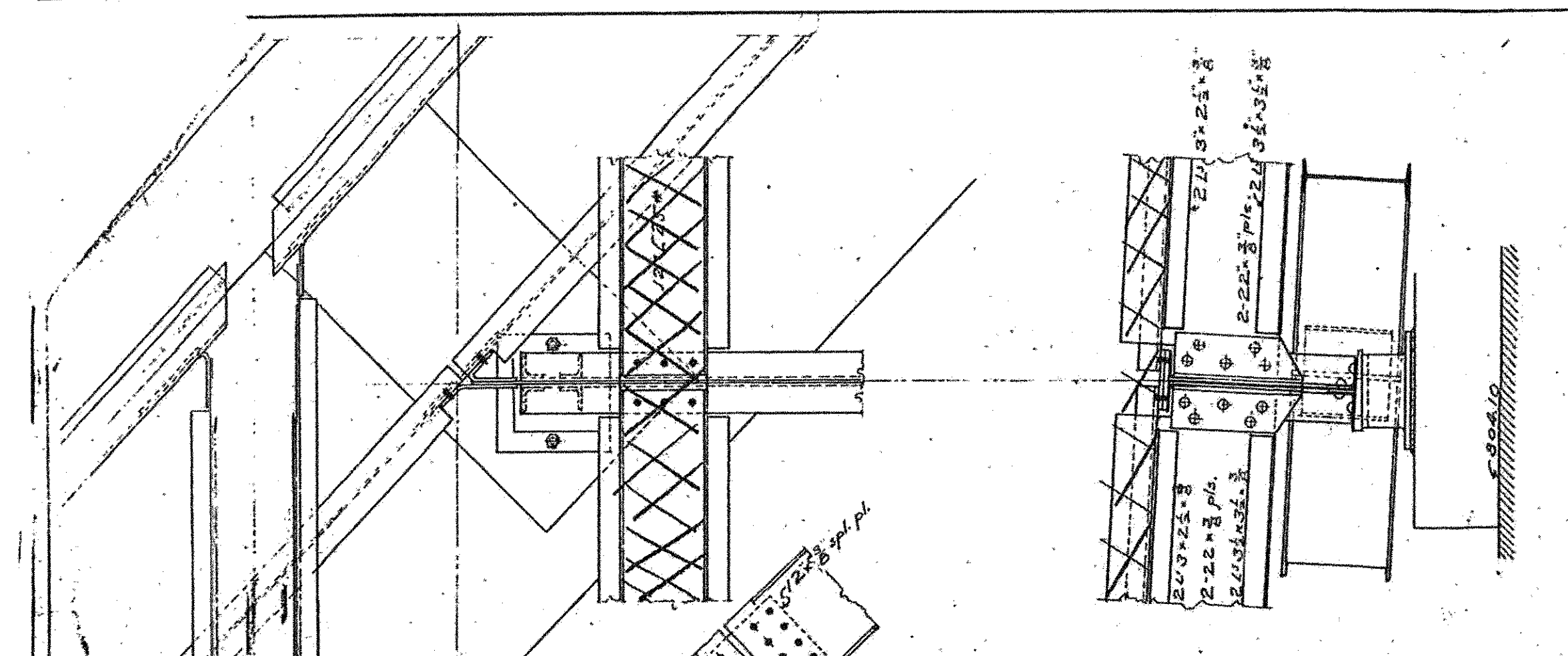
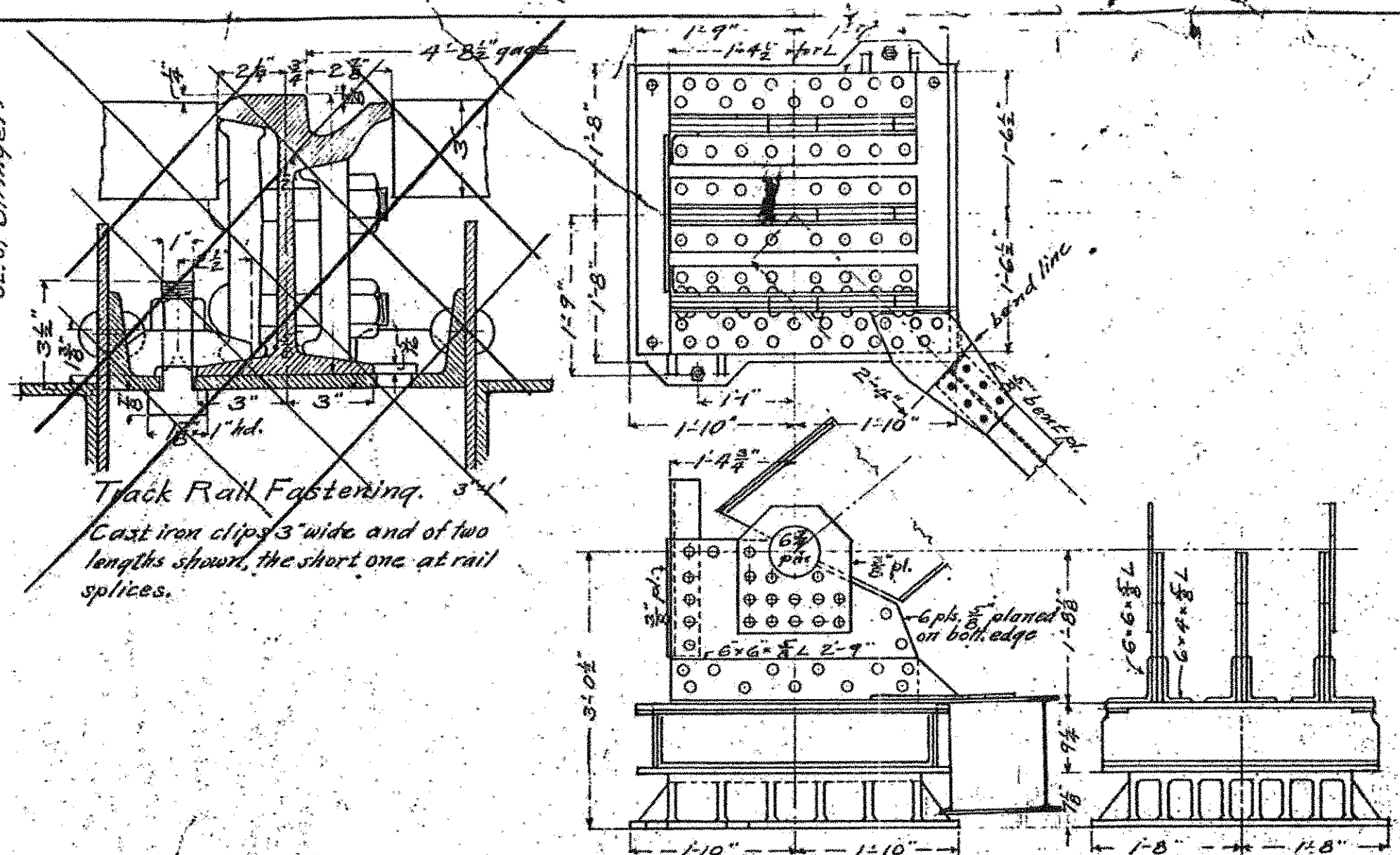
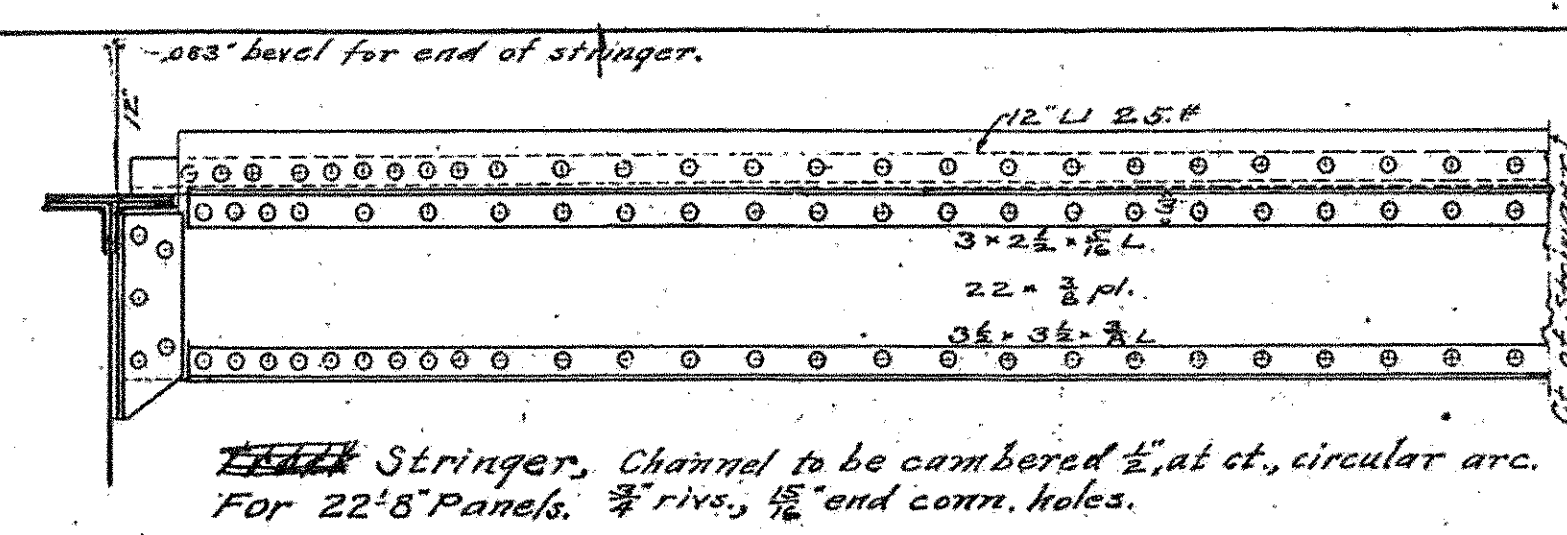
BRIDGE OVER NESHANNOCK CREEK  
AT MILL ST., NEW CASTLE  
LAWRENCE CO., PA.

Thos A Gilkey, C.E.,  
Engineer for Commissioners.

Scale  $\frac{3}{8}'' = 1'-0''$  8 drawings in all.



# FOR REFERENCE ONLY



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MAY 5, 1981  
FRANK B. TAYLOR ENGINEERING

BRIDGE OVER NESHANNOCK CREEK  
AT MILL ST., NEW CASTLE  
LAWRENCE CO., PA.

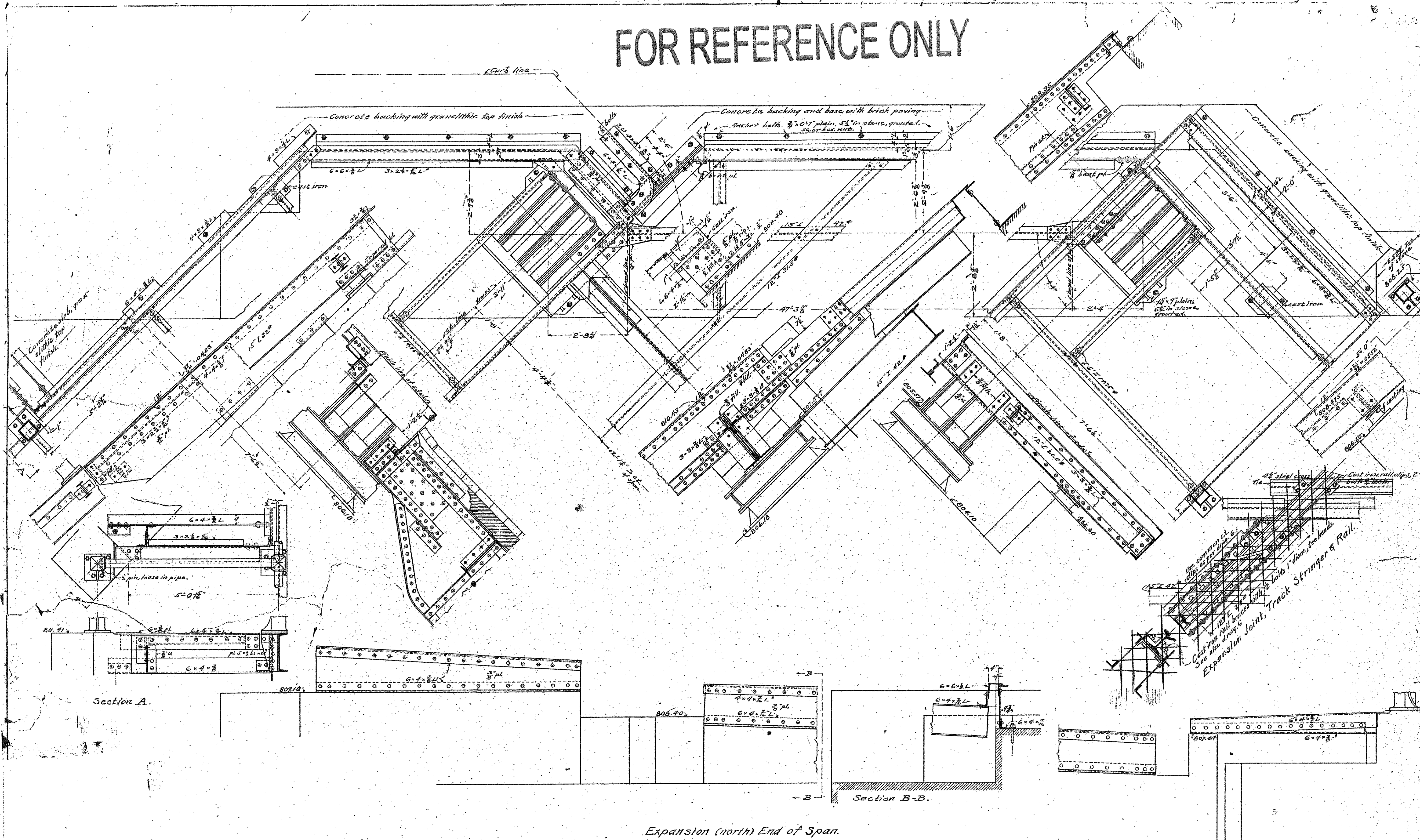
Thos. A. Gilkey, C.E.,  
Engineer for Commissioners.

Approved: \_\_\_\_\_  
1977  
\_\_\_\_\_

Scale 3/4" = 1' 8 drawings in all



# FOR REFERENCE ONLY



Expansion (north) End of Span.

REVISED TO SHOW CURRENT CONDITIONS  
MAY 5, 1981  
FRANK B. TAYLOR ENGINEERING

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Approved, 1917,

Co. Commissioners.

BRIDGE OVER NESHANNOCK CREEK

AT MILL ST., NEW CASTLE,

LAWRENCE CO., PA.

Thos. A. Gilkey, C.E.,

Engineer for Commissioners.

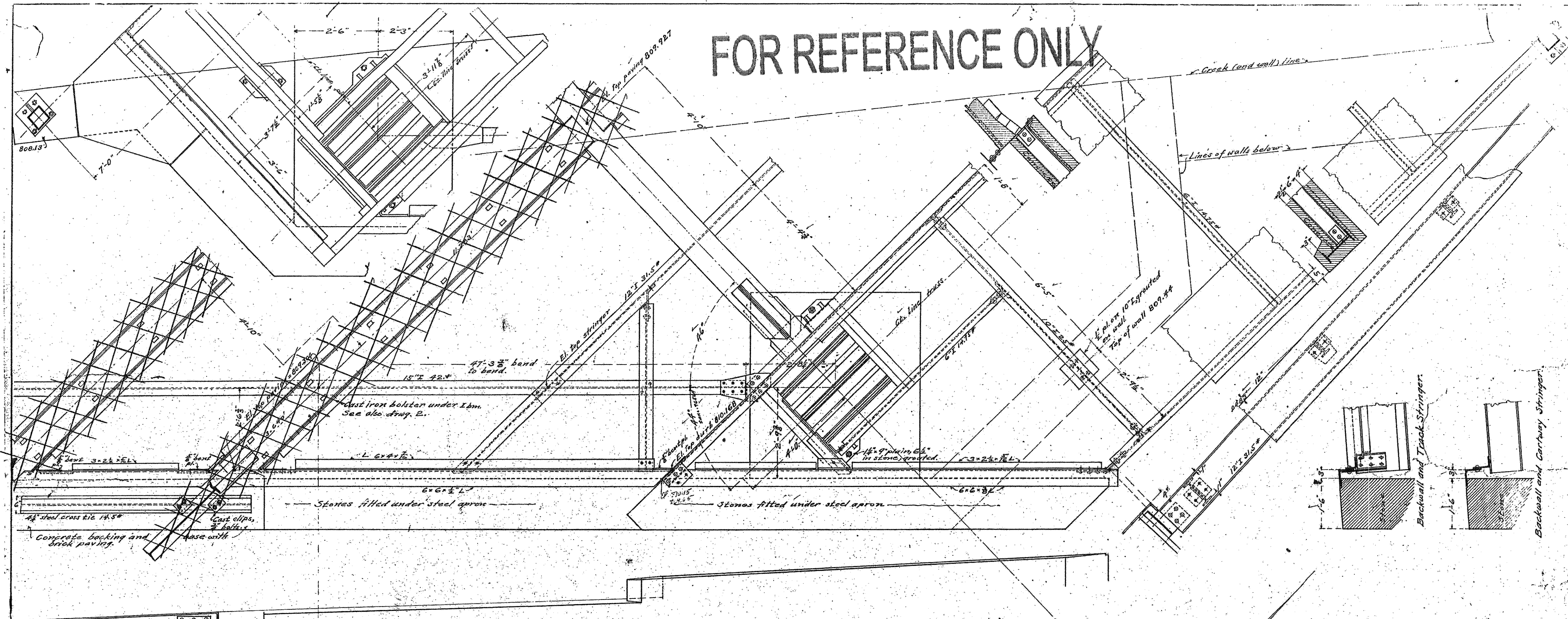
scale 3/4"=1'

8 drawings in all.

Index no. 207

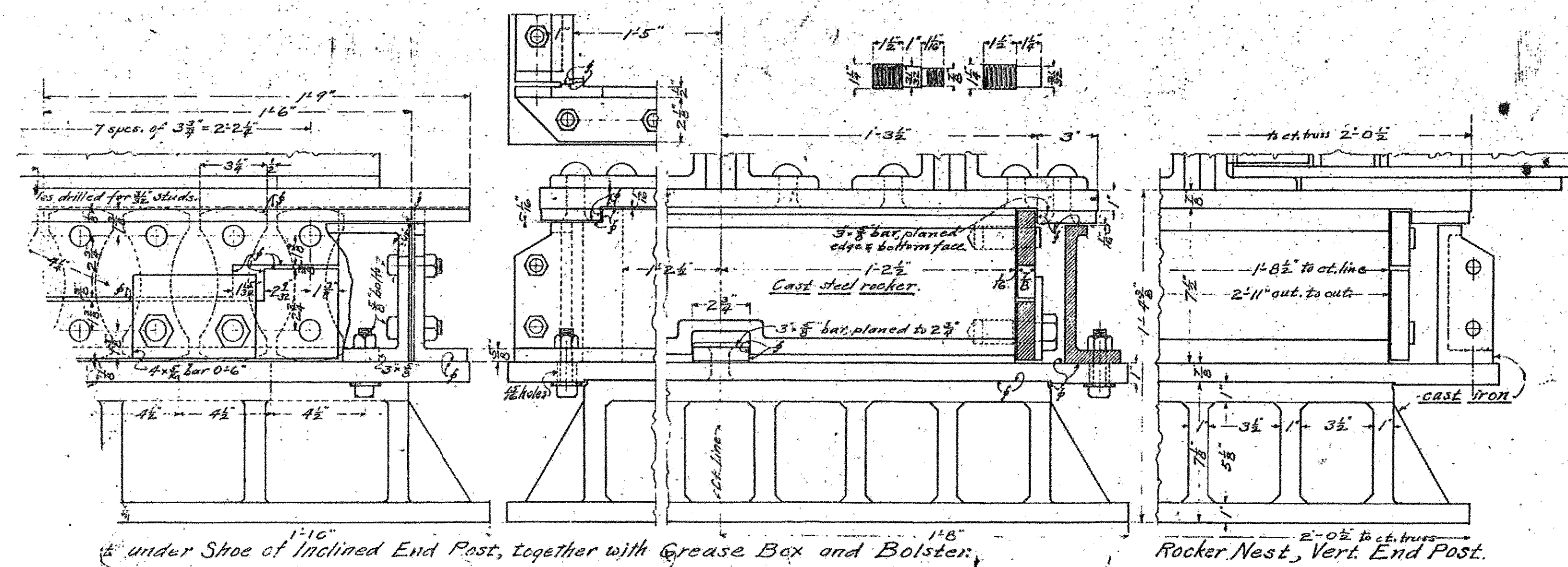


FOR REFERENCE ONLY



Fixed (south) End of Span.

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contract, and is not to be considered as a basis for any  
purpose.



REVISED TO SHOW CURRENT CONDITIONS  
MAY 5, 1981  
FRANK B. TAYLOR ENGINEERING

BRIDGE OVER NESHANNOCK CREEK  
AT MILL ST., NEW CASTLE  
LAWRENCE CO., PA.

Thos. A. Gilkey, C.E.,  
Engineer for Commissioners.

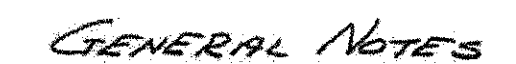
scale  $\frac{1}{4}''=1'$

8 drawings

8



FOR REFERENCE ONLY



- ELEVATION  
SCALE: 1"=20'

Commonwealth of Massachusetts  
Department of Transportation  
Engineering Division  
Approved: 8-1-1964  
C. M. Mearns  
BRIDGE ENGINEER

\* GUTTER  
ELEVATIONS  
AT CURB  
STRINGER

<u>PERMANENT METAL DECK FORMS</u>	<u>BC-332B</u>	<u>6-21-82</u>
<u>REINFORCEMENT BAR FABRICATION</u>		
<u>DETAILS</u>	<u>BC-336A</u>	<u>11-7-81</u>
<u>CONCRETE DECK SLAB DETAILS</u>	<u>BC-352</u>	<u>4-1-71</u>
<u>ARMORED PERFORMED NEOPRENE</u>		
<u>COMPRESSION DAM</u>	<u>BC-363</u>	<u>10-20-70</u>
<b>DESCRIPTION</b>	<b>DRWG. NO.</b>	<b>APPR. DAT</b>
<b>SUPPLEMENTAL</b>	<b>DRAWINGS</b>	

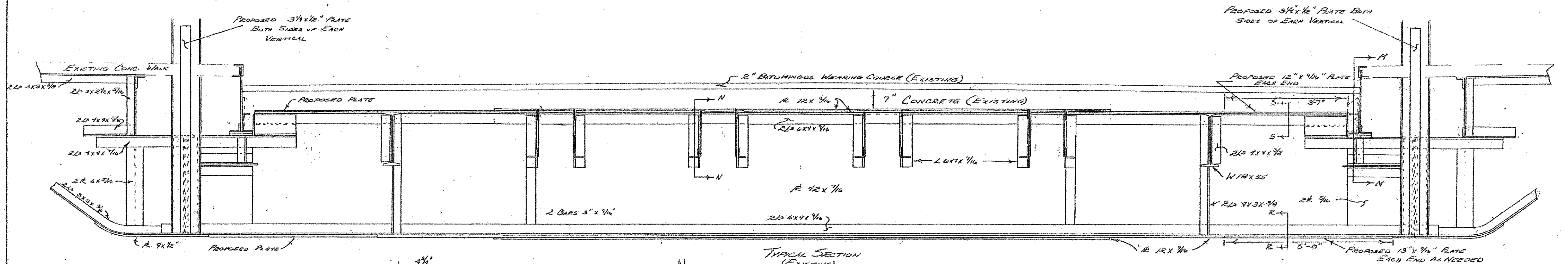
LAWRENCE COUNTY  
CITY OF NEW CASTLE  
SOUTH MILL STREET  
OVER NESHANNOCK CREEK  
REPAIRS TO THROUGH TRUSS BRIDGE  
**GENERAL PLAN**

SHEET 1 of 6

S-14640

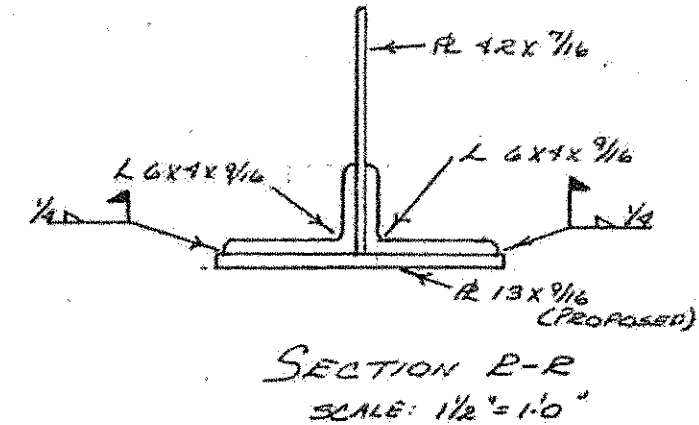


FOR REFERENCE ONLY

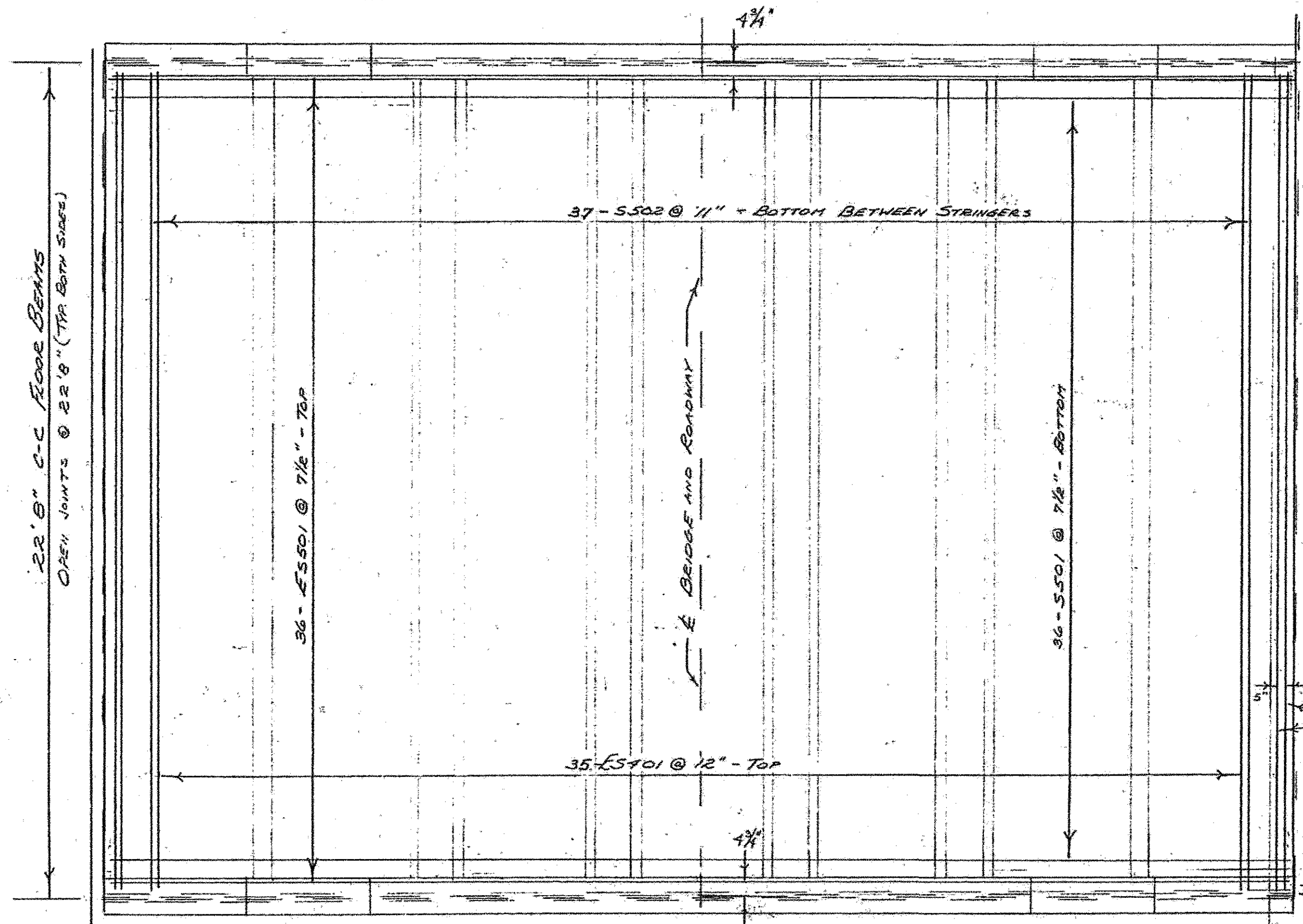


TYPICAL SECTION  
(EXISTING)  
SCALE:  $\frac{3}{4}" = 1'0"$

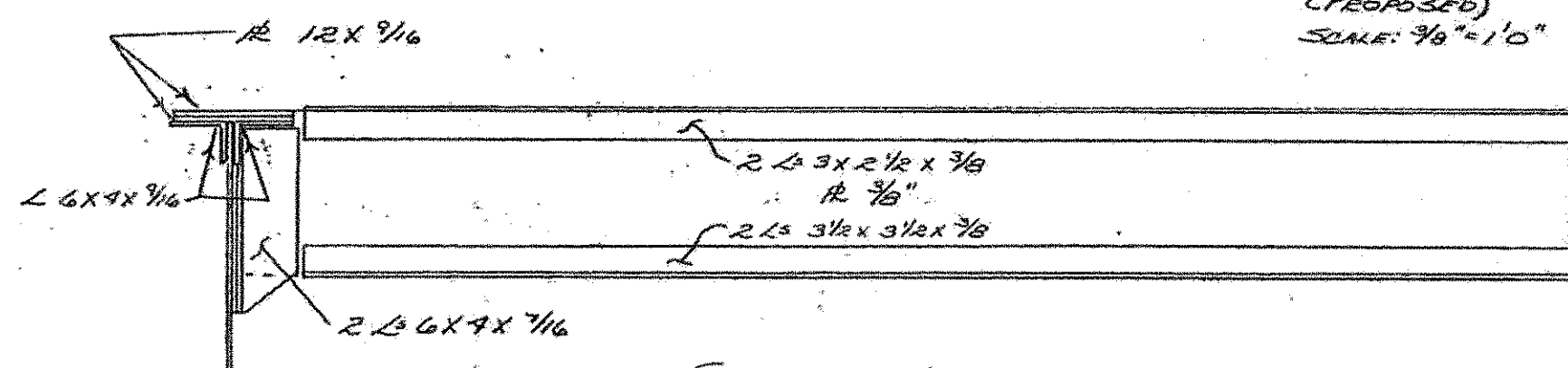
NOTE: TOP FLANGE OF FLOOR BEAMS TO BE COVER PLATED WITH 12" x 1/16" PLATE. LENGTH TO BE DETERMINED IN FIELD.  
BOTTOM FLANGE TO BE COVER PLATED WITH 13" x 1/16" PLATE AS NEEDED



SECTION P-R  
SCALE:  $1\frac{1}{2}" = 1'-0"$

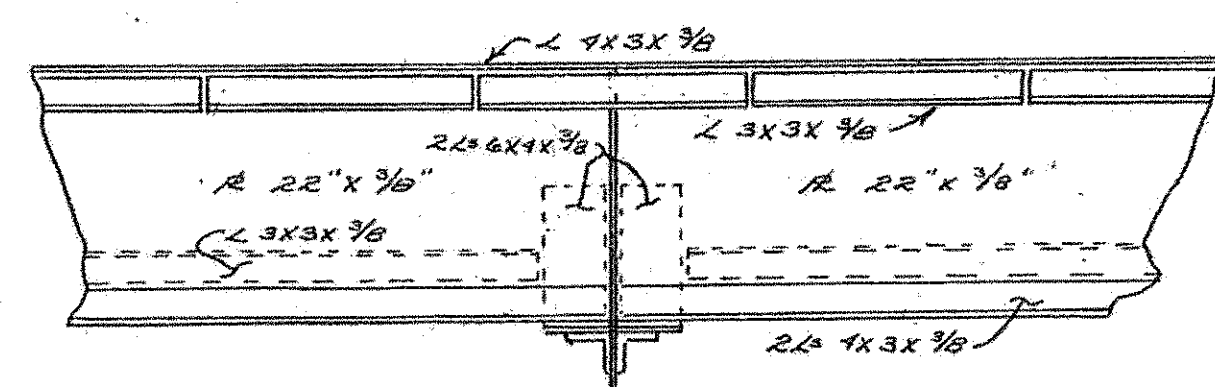


PARTIAL PLAN  
(PROPOSED)  
SCALE:  $\frac{3}{8}" = 1'0"$



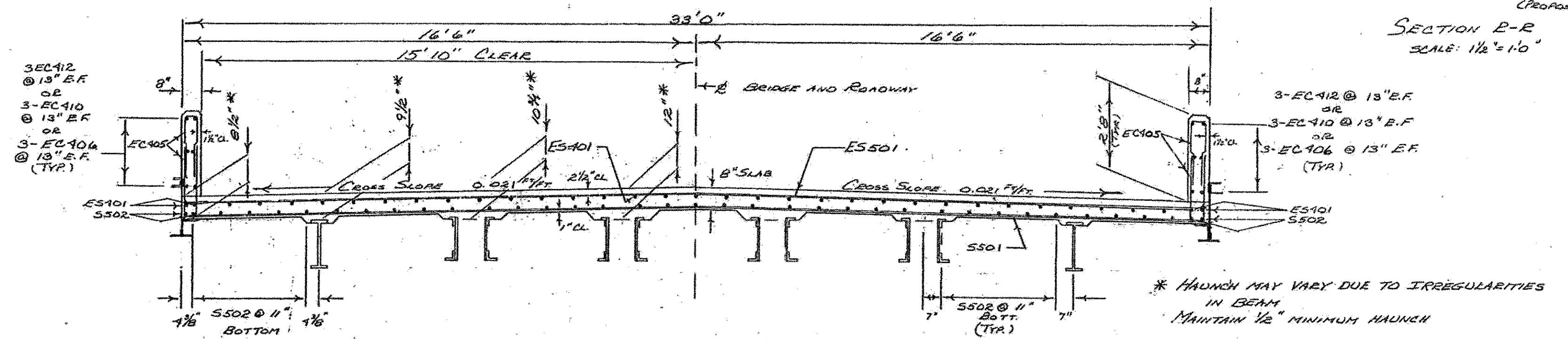
SECTION N-N.  
INTERIOR STRINGER  
SCALE:  $\frac{3}{4}" = 1'0"$

Bidders are advised to field-verify information presented.  
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purpose.

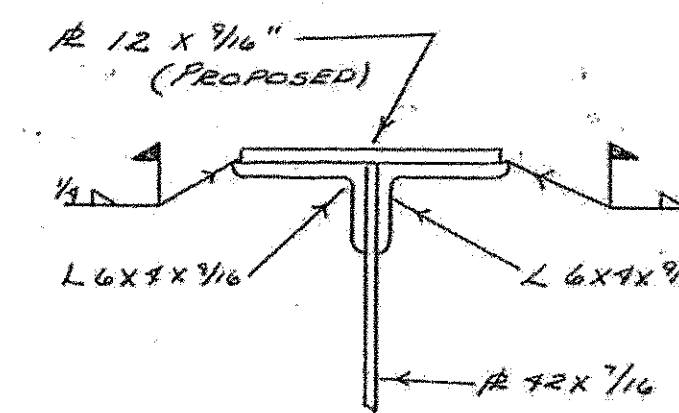


SECTION M-M  
CURB STRINGER  
SCALE:  $\frac{3}{4}" = 1'0"$

NOTE: CURB STRINGER TO BE REPLACED  
WITH IDENTICAL ELEMENTS AS EXISTING  
ELEMENTS



PROPOSED SECTION  
SCALE:  $\frac{3}{8}" = 1'0"$



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

REVISIONS						

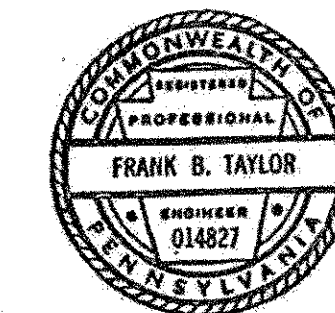
LAWRENCE COUNTY  
CITY OF NEW CASTLE  
SOUTH MILL STREET  
OVER NESHANNOCK CREEK  
REPAIRS TO THROUGH TRUSS BRIDGE  
**DECK SLAB**

APPROVED Aug. 12, 1982

Frank B Taylor

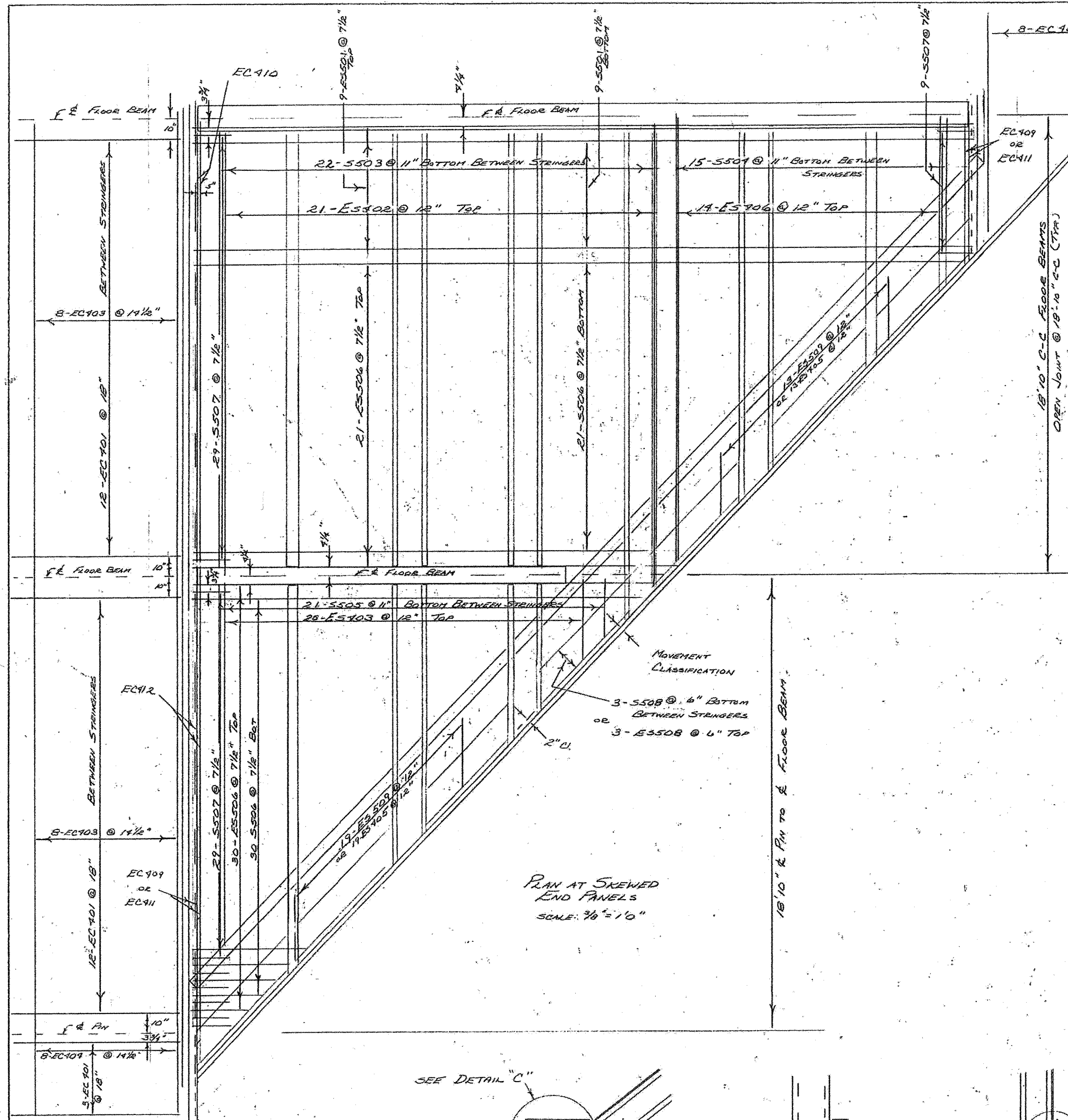
SHEET 2 OF 6

S-14640

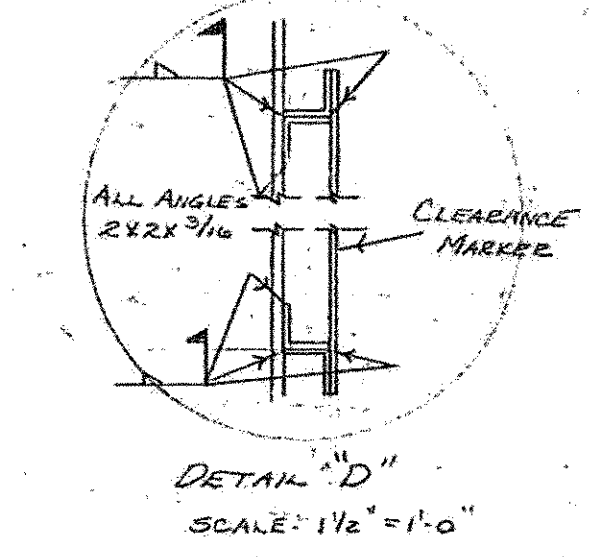
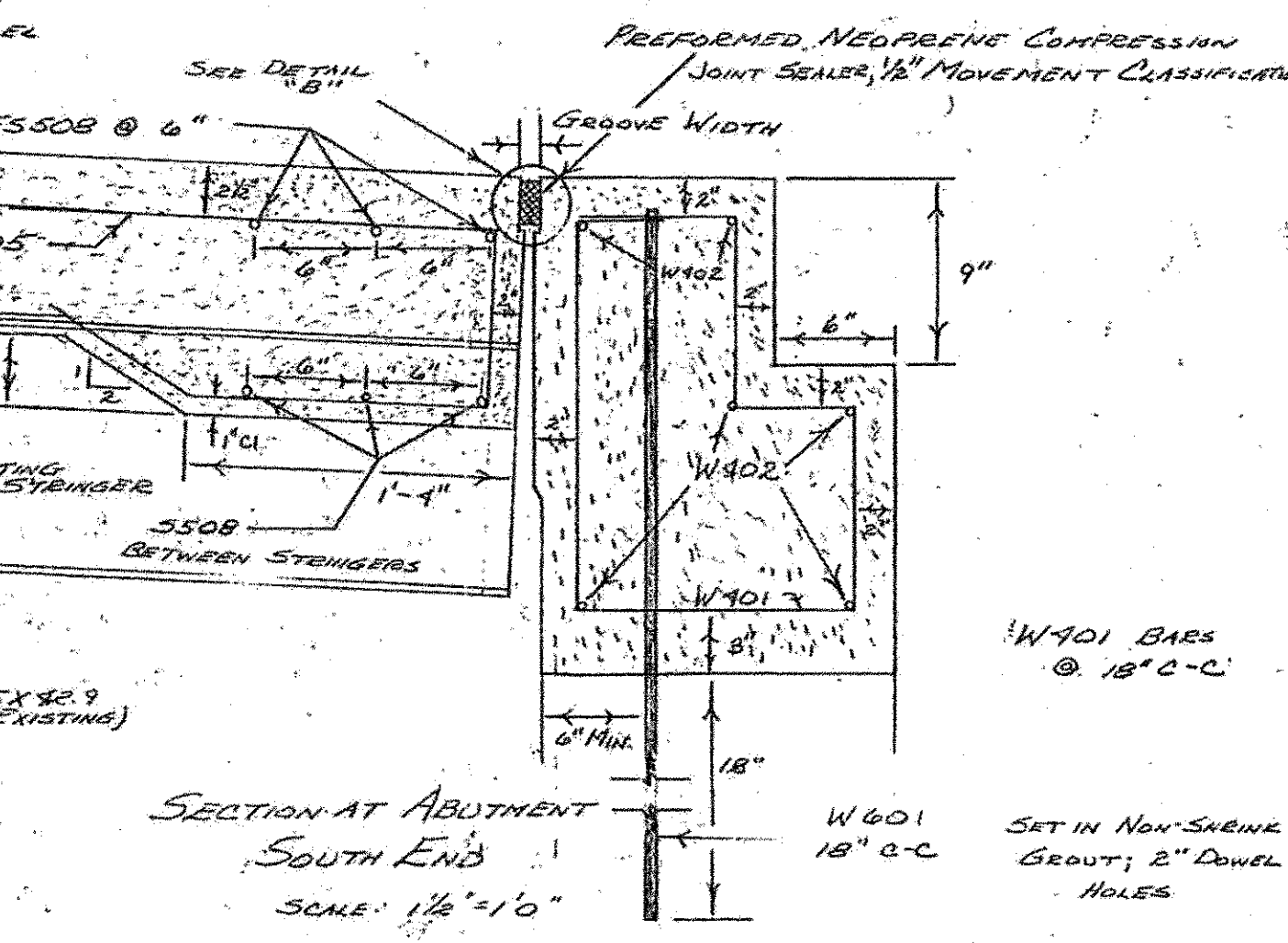
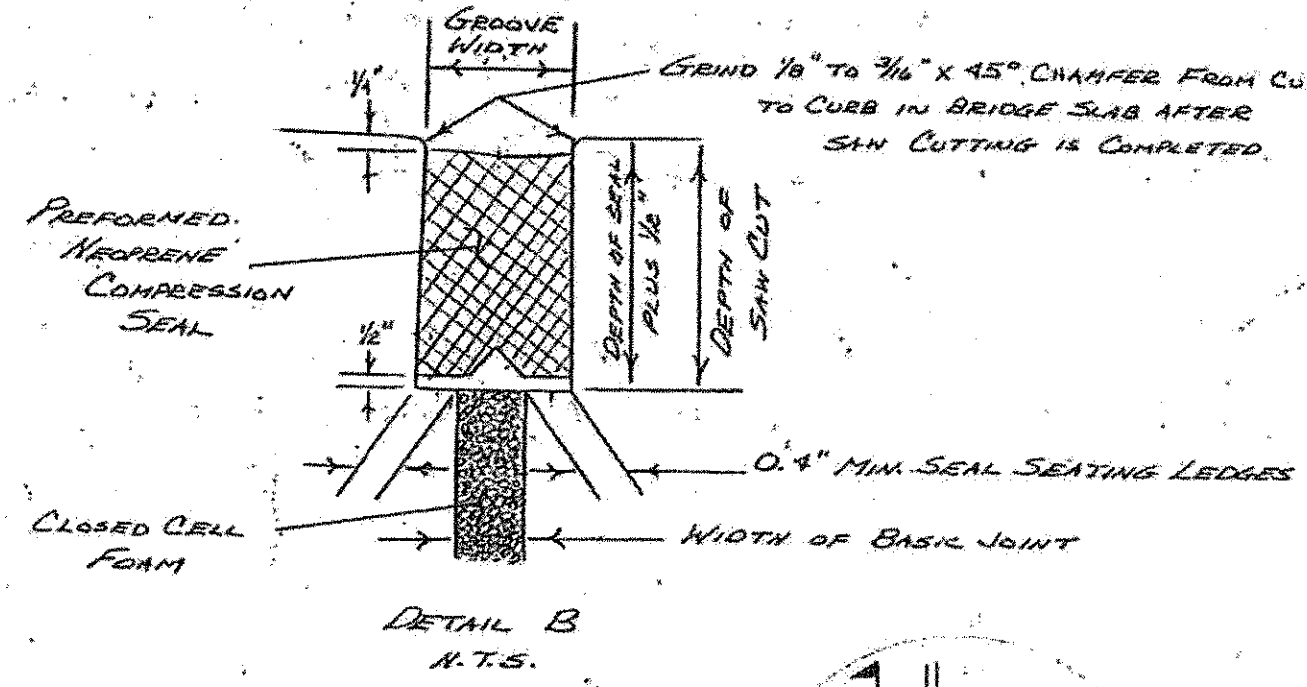
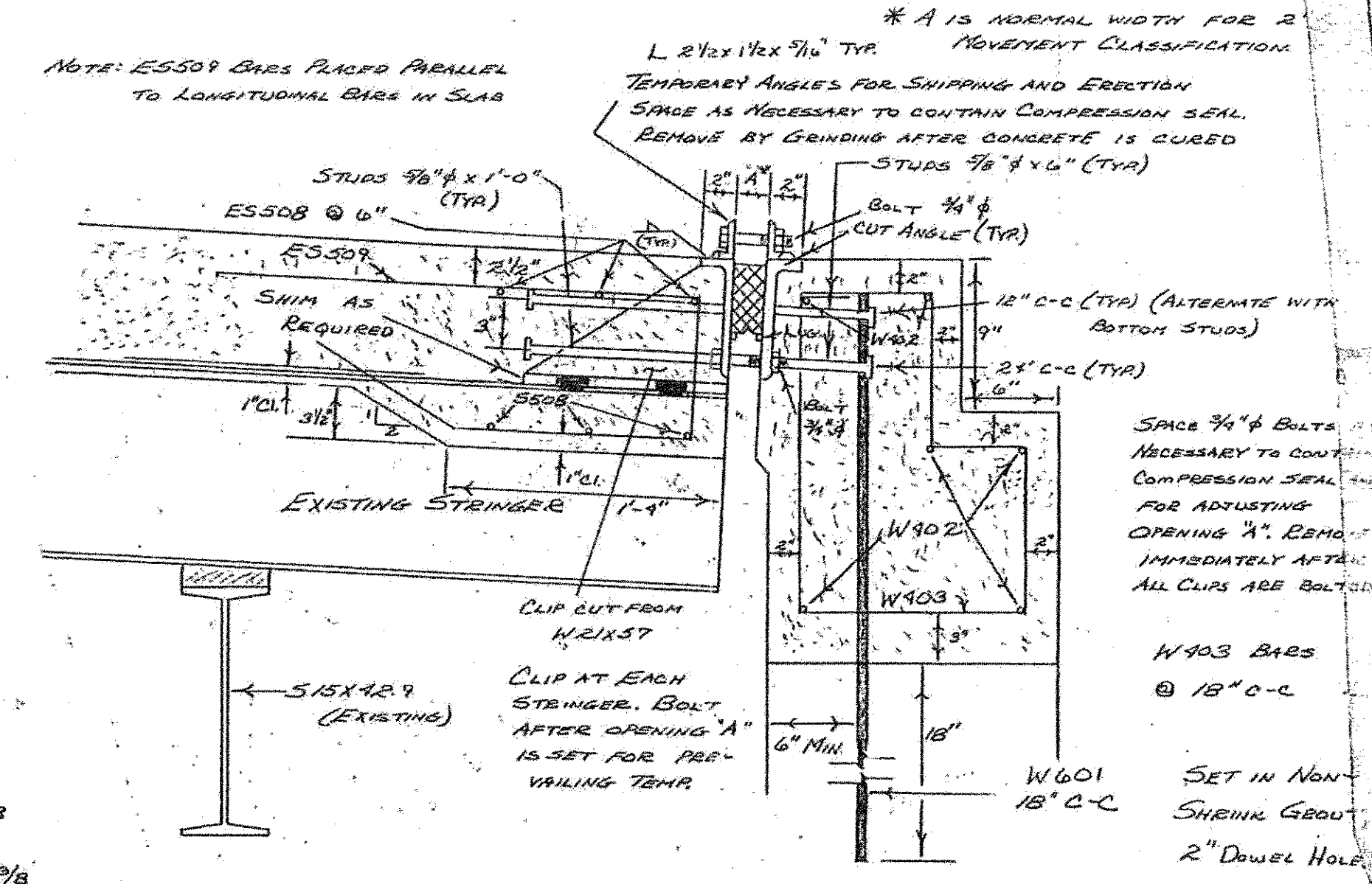
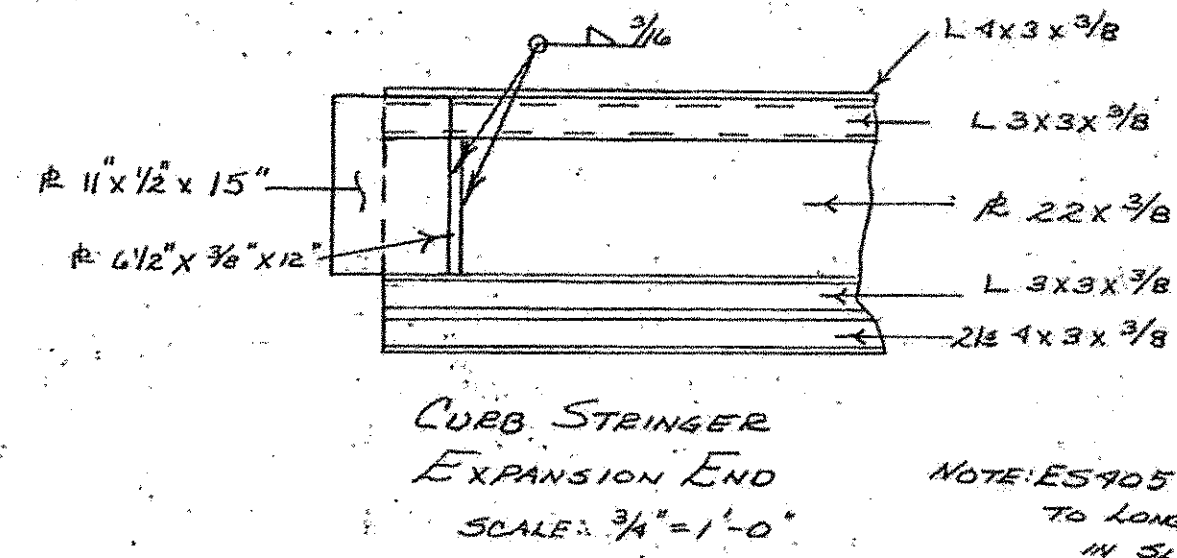




# FOR REFERENCE ONLY



Bidders are advised to field-verify information presented. The data shown herein is not part of the plans, proposal, or contract, and is not to be considered as a basis for any purpose.

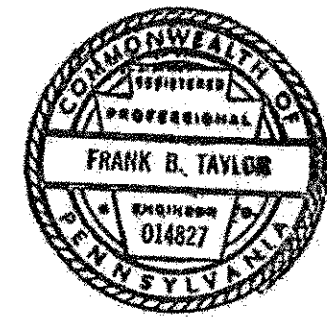


REVISIONS

LAWRENCE COUNTY  
CITY OF NEW CASTLE  
SOUTH MILL STREET  
OVER NESHANNOCK CREEK  
REPAIRS TO THROUGH TRUSS BRIDGE  
END SLAB DETAIL

APPROVED Aug. 12, 1982  
Frank B. Taylor  
BRIDGE ENGINEER

SHEET 3 of 6  
S-14640



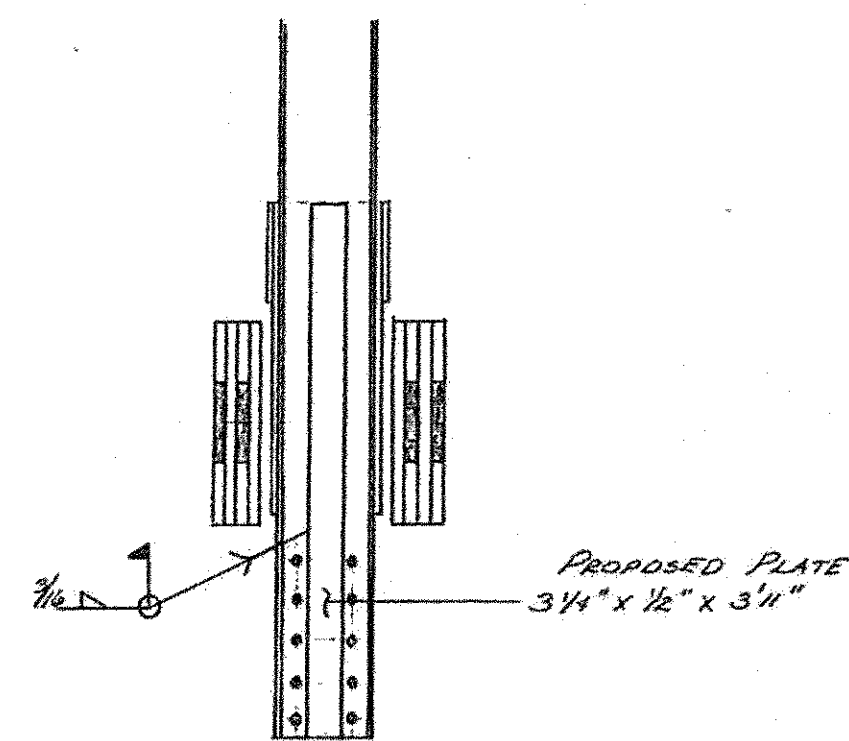
Commonwealth of Pennsylvania  
Department of Transportation  
Engineering District 1-0  
Approved: 8-18-1982  
Cheryl  
BRIDGE ENGINEER



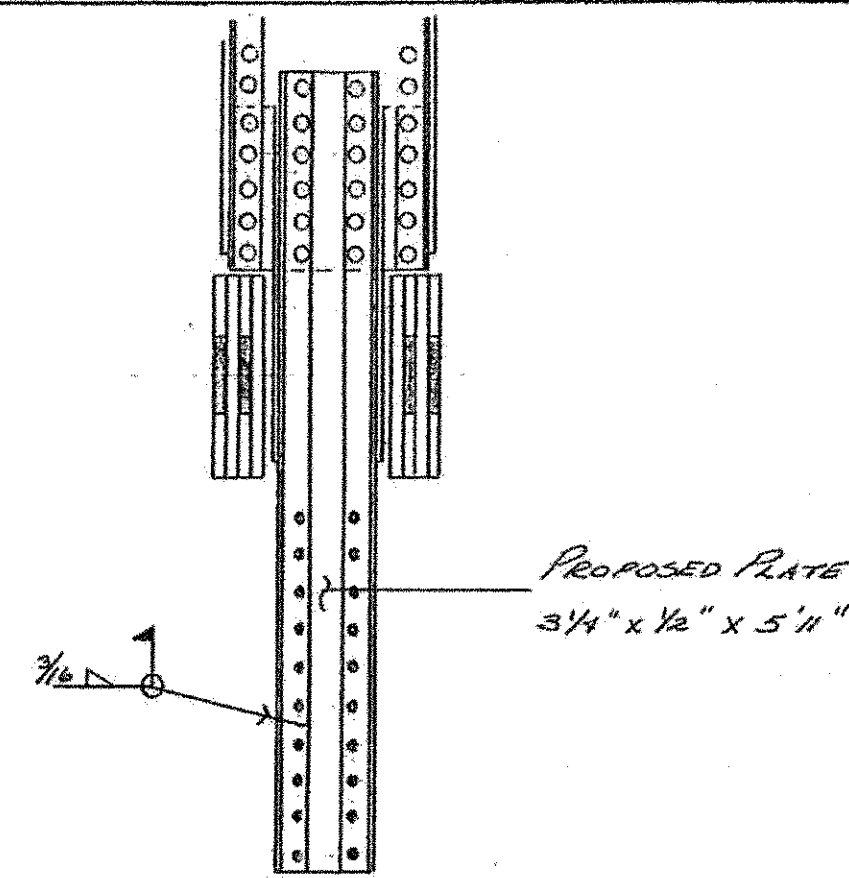




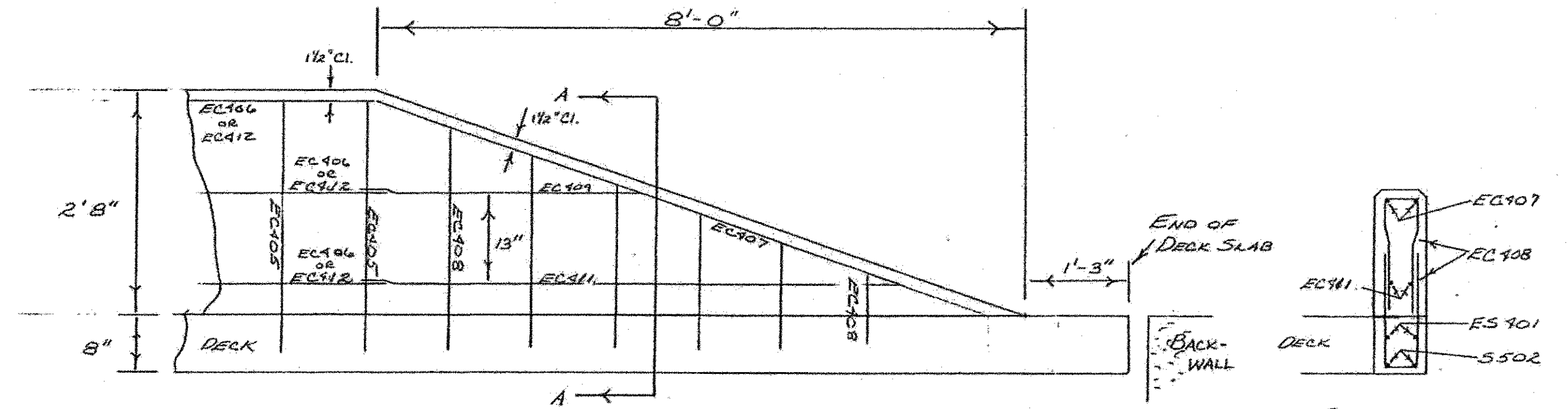
FOR REFERENCE ONLY



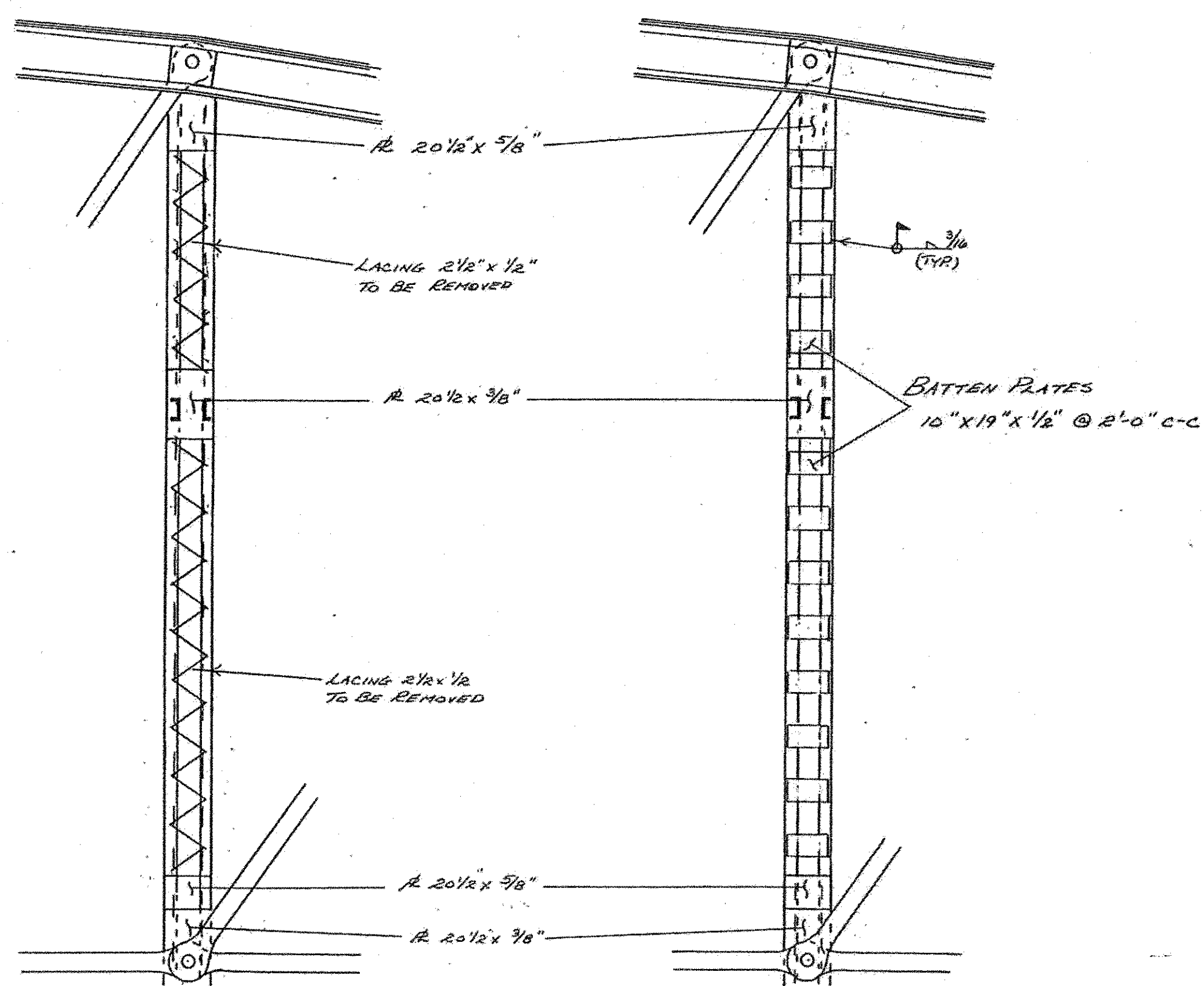
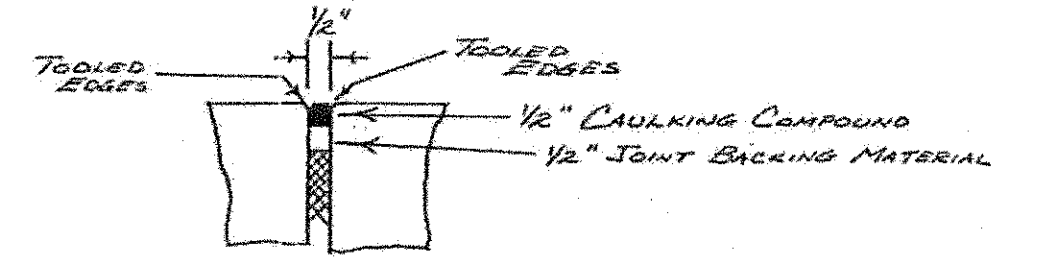
VERTICAL REPAIR AT L1  
PIN CONNECTION  
SCALE: 3/4" = 1'-0"



VERTICAL REPAIR (TYP)  
AT PIN CONNECTION  
SCALE: 3/4" = 1'-0"



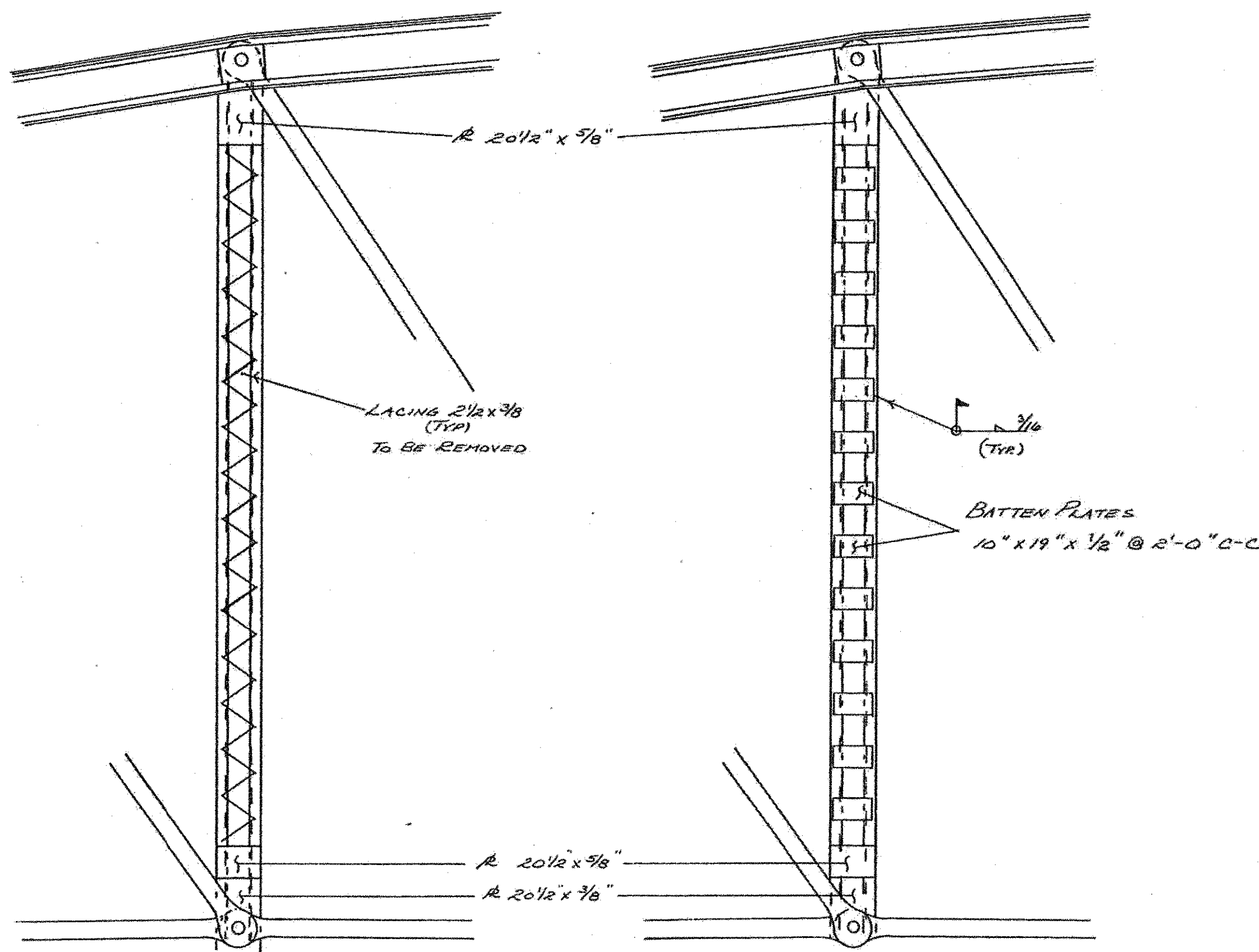
CURB END TREATMENT  
SCALE: 3/4" = 1'-0"  
(TYPICAL ALL FOUR CORNERS)



EXISTING

PROPOSED

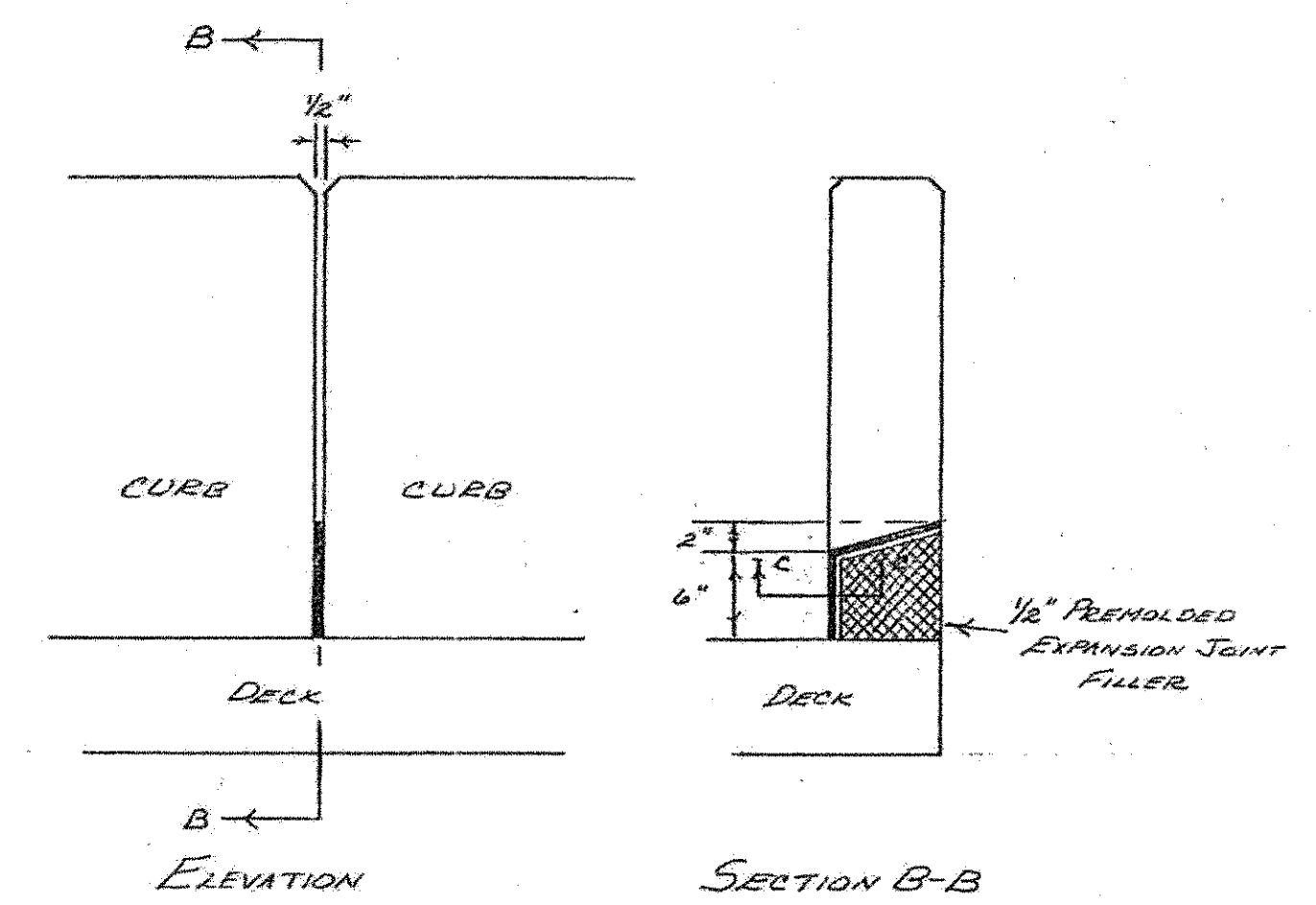
INSIDE VERTICAL REPAIR  
AT U9L9  
SCALE: 1/4" = 1'-0"



EXISTING

PROPOSED

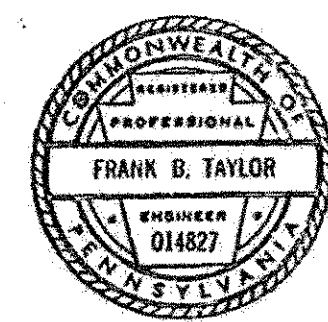
OUTSIDE VERTICAL REPAIR  
AT U9L9  
SCALE: 1/4" = 1'-0"



OPEN JOINT DETAIL  
SCALE: 1" = 1'-0"

REVISIONS									

Commonwealth of Pennsylvania  
Department of Transportation  
Engineering District 1-0  
Approved: 8-12-1982  
C. Muehl  
BRIDGE ENGINEER



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The data shown herein is not part of the plans, proposal, or contract, and is not to be considered as a basis for any purpose.

LAWRENCE COUNTY  
CITY OF NEW CASTLE  
SOUTH MILL STREET  
OVER NESHANNOCK CREEK  
REPAIRS TO THROUGH TRUSS BRIDGE  
MISCELLANEOUS DETAILS

APPROVED: Aug 12, 1982  
Frank B. Taylor

SHEET 5 of 6

S-14640

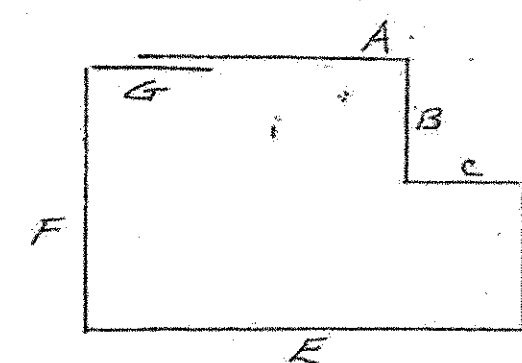


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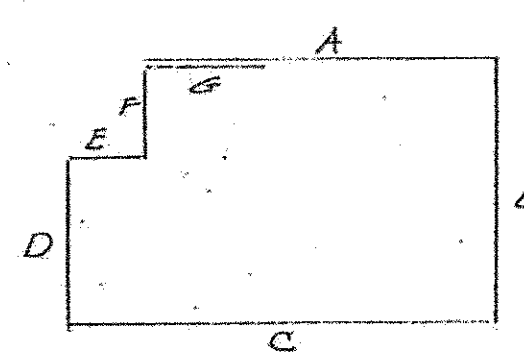
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DECK SLAB													
MARK	SIZE	LENGTH	NO.	TYPE	A	B	C	D	E	F	G	H	REMARKS
ES405	4	6'-1 1/2"	32	3	3'-6"	8 1/2"	1'-3"	8"				4"	
ES501	5	32'-8"	306	STR									
ES502	5	21'-0"	296	STR									
ES503	5	20'-0"	44	STR									
ES504	5	6'-3" TO 18'-9"	2 SETS OF 14	STR									VAR BY 1 1/2"
ES505	5	2'-3" TO 20'-6"	2 SETS OF 21	STR									VAR BY 1 1/2"
ES506	5	1'-6" TO 31'-8"	2 SETS OF 31	STR									VAR BY 7 1/4"
ES507	5	3'-4"	694	4	1'-6"	4"	1'-6"						
ES508	5	4'-6"	42	STR									
ES501	4	21'-0"	280	STR									
ES502	4	20'-0"	42	STR									
ES503	4	2'-3" TO 20'-6"	2 SETS OF 20	STR									VAR BY 1 1/2"
ES506	4	6'-3" TO 18'-9"	2 SETS OF 14	STR									VAR BY 1 1/2"
ES501	5	32'-8"	306	STR									
ES506	5	1'-6" TO 31'-8"	2 SETS OF 31	STR									VAR BY 7 1/4"
ES508	5	4'-3"	6	STR									
ES509	5	5'-3 1/2"	32	3	2'-6"	8 1/2"	1'-3"	10"				5"	

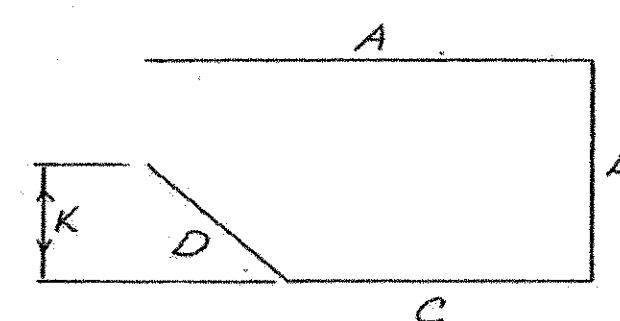
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contract, and is not to be considered as a basis for any  
purpose.



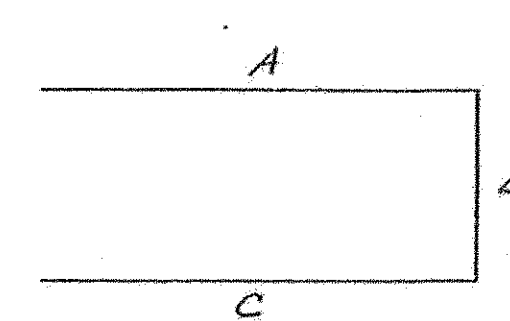
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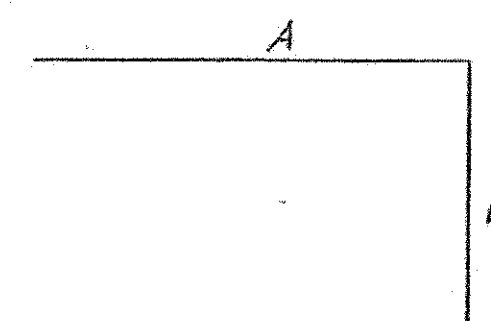
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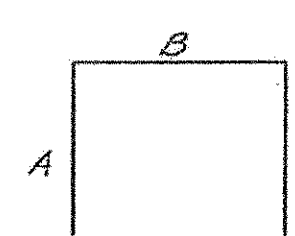
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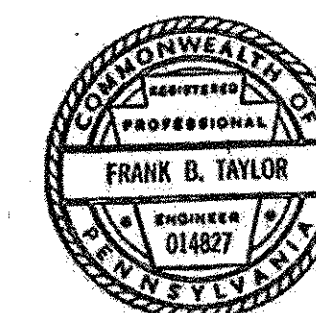
⑤



5



(b)



LAWRENCE COUNTY  
CITY OF NEW CASTLE  
SOUTH MILL STREET  
OVER NESHANNOCK CREEK  
REPAIRS TO THROUGH TRUSS BRIDGE  
**REINFORCEMENT LIST**

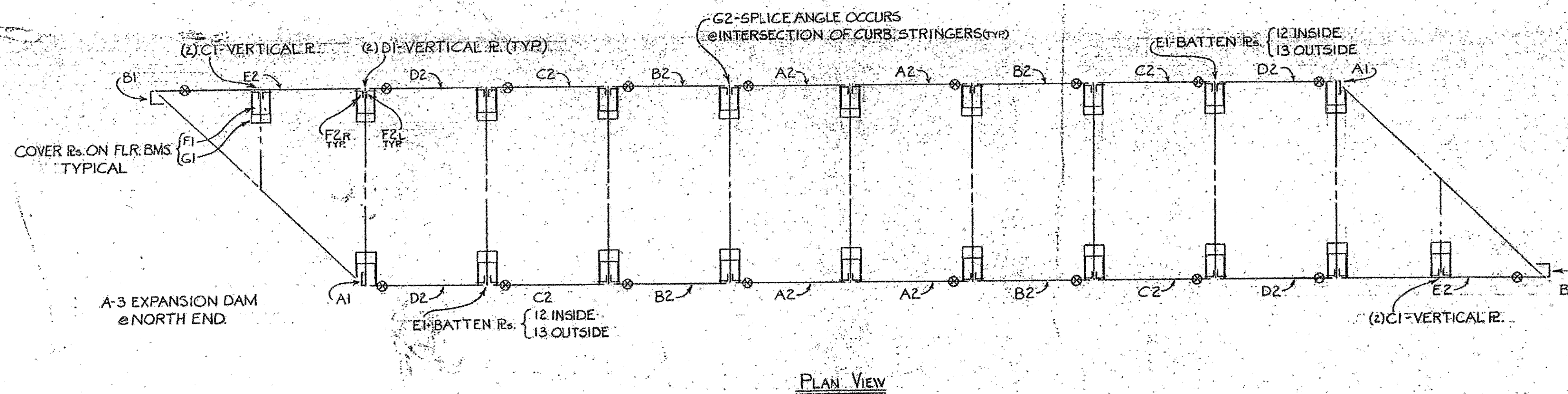
APPROVED AUG. 12, 1982  
Frank B. Taylor

SHEET 6 OF 6

S-14640



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## General Notes

- \*Materials And Workmanship Shall Be In Accordance With Penn D.O.T. Specification Forms 408/76 And 409/73.
- \*Design Specifications Design Division Of 1977 A.A.S.H.T.O. "Standard Specifications For Highway Bridges" (Including 1980 And 1981 Interim Specifications) And As Supplemented By The Penn D.O.T. Design Manual Part 4, Structures (Including 9-76 Revisions).
- \*Structural Steel Shall Conform To A.S.T.M. A36 Designation Except Where Noted Otherwise.
- \*All Bolts To Be HS A.S.T.M. A325.

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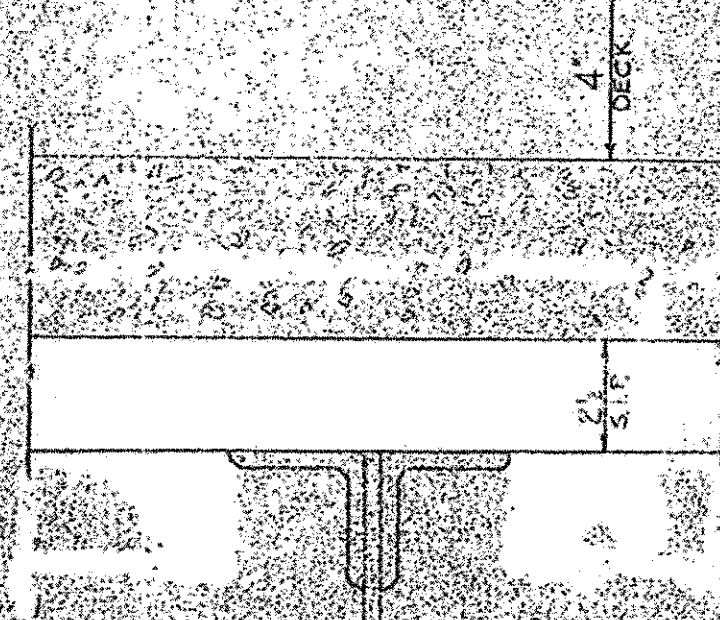
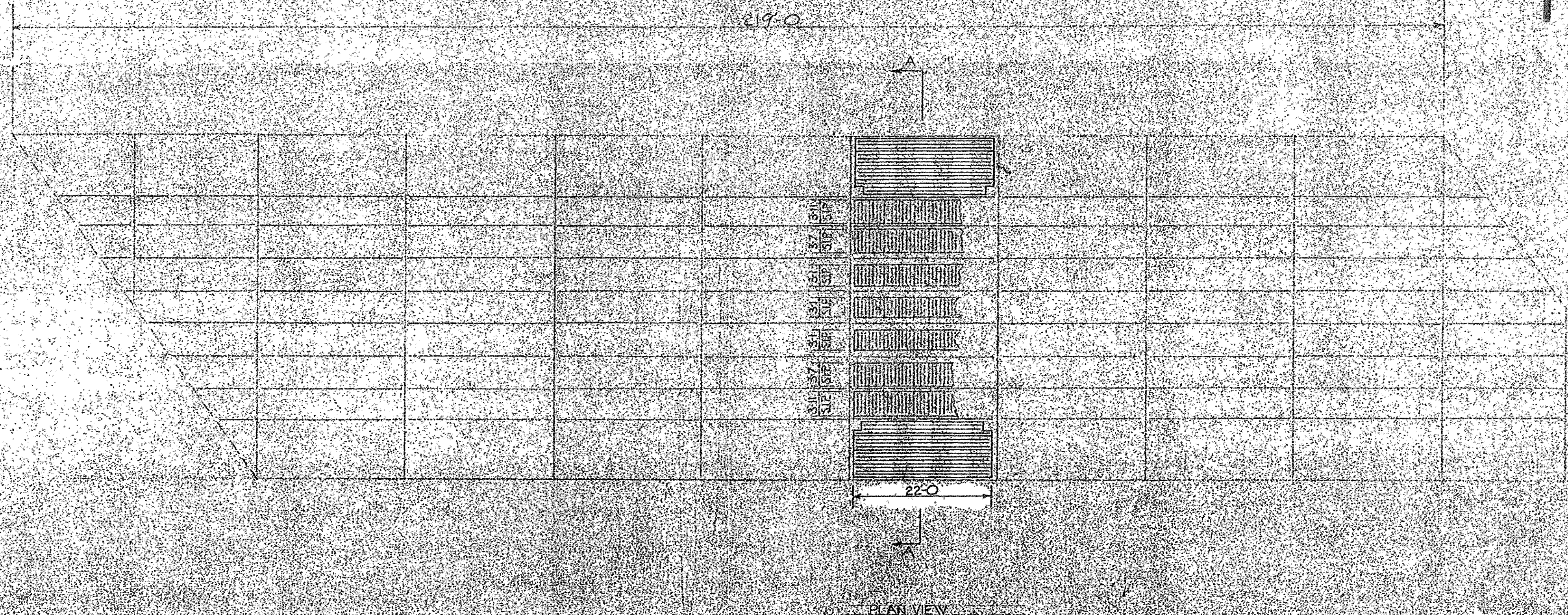
**CONN FABRICATING & ENGINEERING CO.**  
NEW CASTLE, PENNA.

LAWRENCE COUNTY  
SOUTH MILL STREET BRIDGE  
NEW CASTLE, PA.  
STA. 0+40.00 L.R. 96062 S-14640

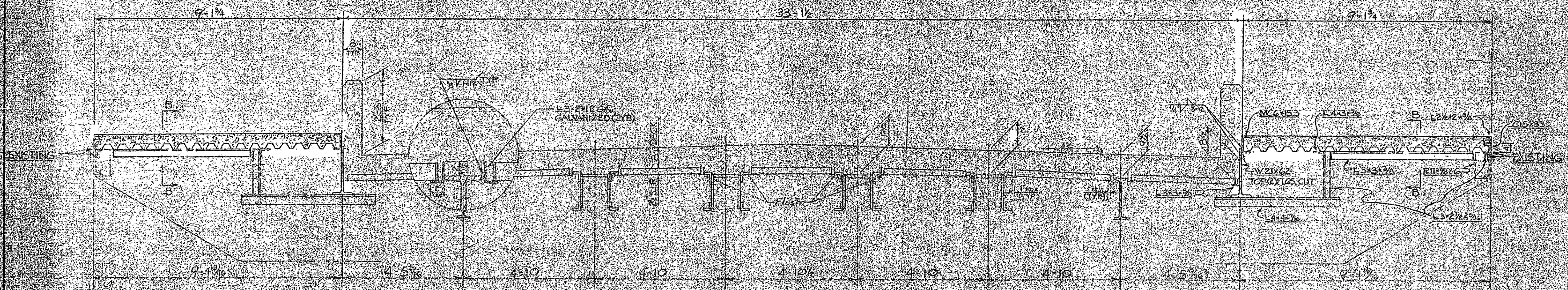
REVISIONS	SCALE	DATE
	DRAWN BY	APPROVED
	TRACED	No. 51 OF 1
	CKD. BY	



FOR REFERENCE ONLY



PLAN VIEW



SECTION A-A

GENERAL NOTES

- \* Shop details BC352B non-removable design
- \* All material to conform to AISC 163 407/13
- \* All forms to have minimum bearing of 1/4" on each end and spaced immediately
- \* Bridge form material shall be A466 with min. class 465 in accordance with AISC
- \* Contractor shall verify dimensions on site
- \* All fasteners shall be cadmium plated and conform to AISC
- \* All cutting of forms shall be by any approved method

Bridge	Section	Scale
EC 30	300'	1"=40'
Grade	Level	Depth
C	EG	2 1/2"

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STA. 0+40.00 LR 96.02 5' 11 1/2"

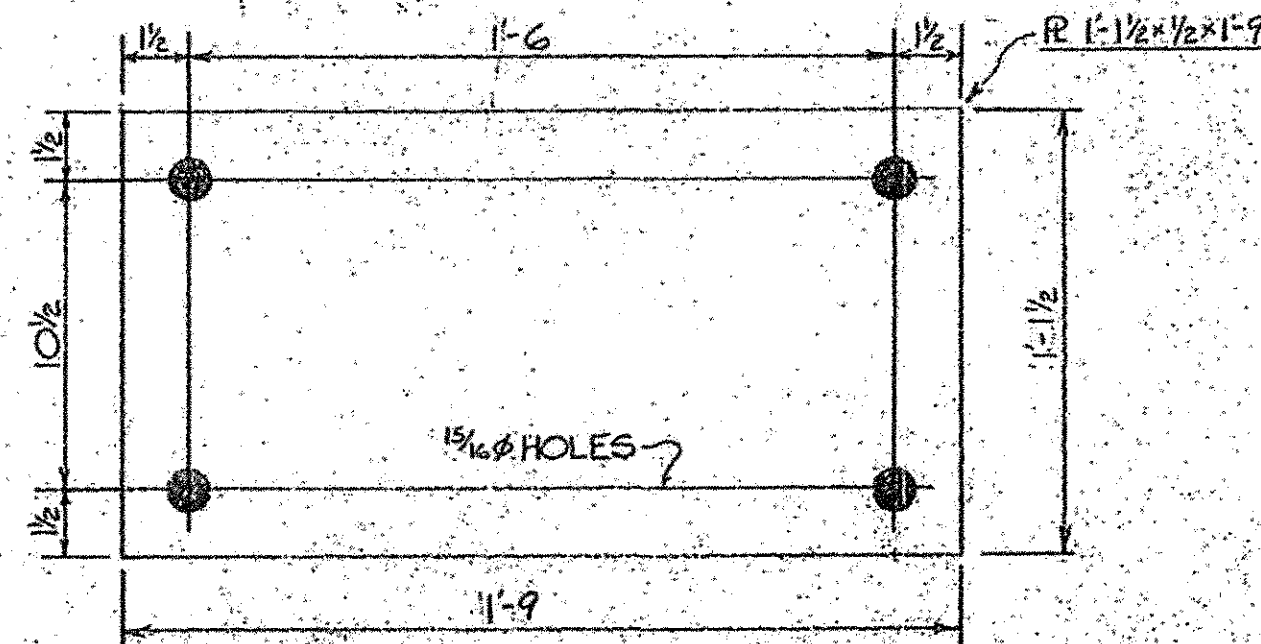
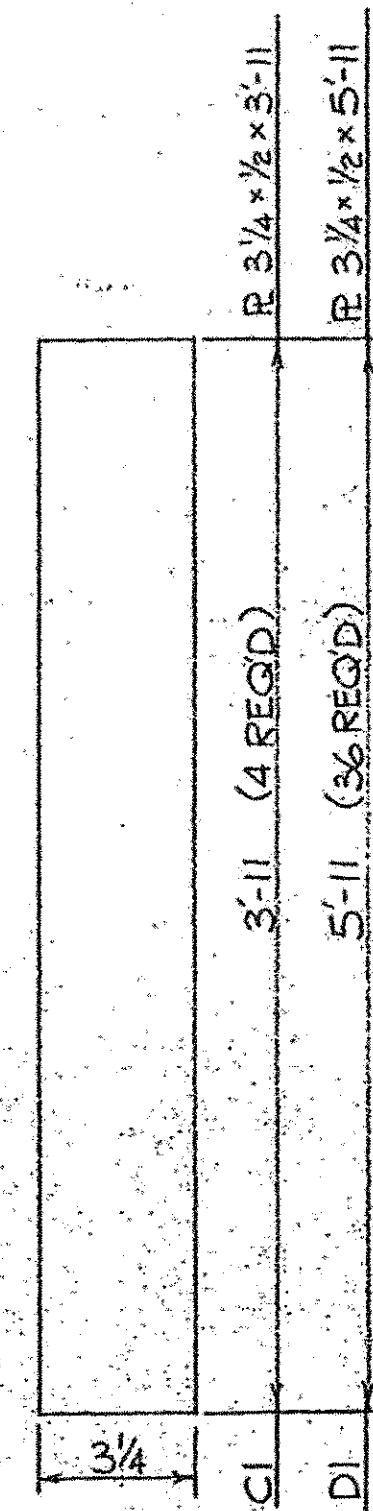
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REVISIONS	SCALE	DATE
	N.T.S. unless noted	MARCH 22, 1983
	DRAWN BY T. ROBERT	APPROVED
	TRACED	
	CHECKED BY	No. 51A of 1

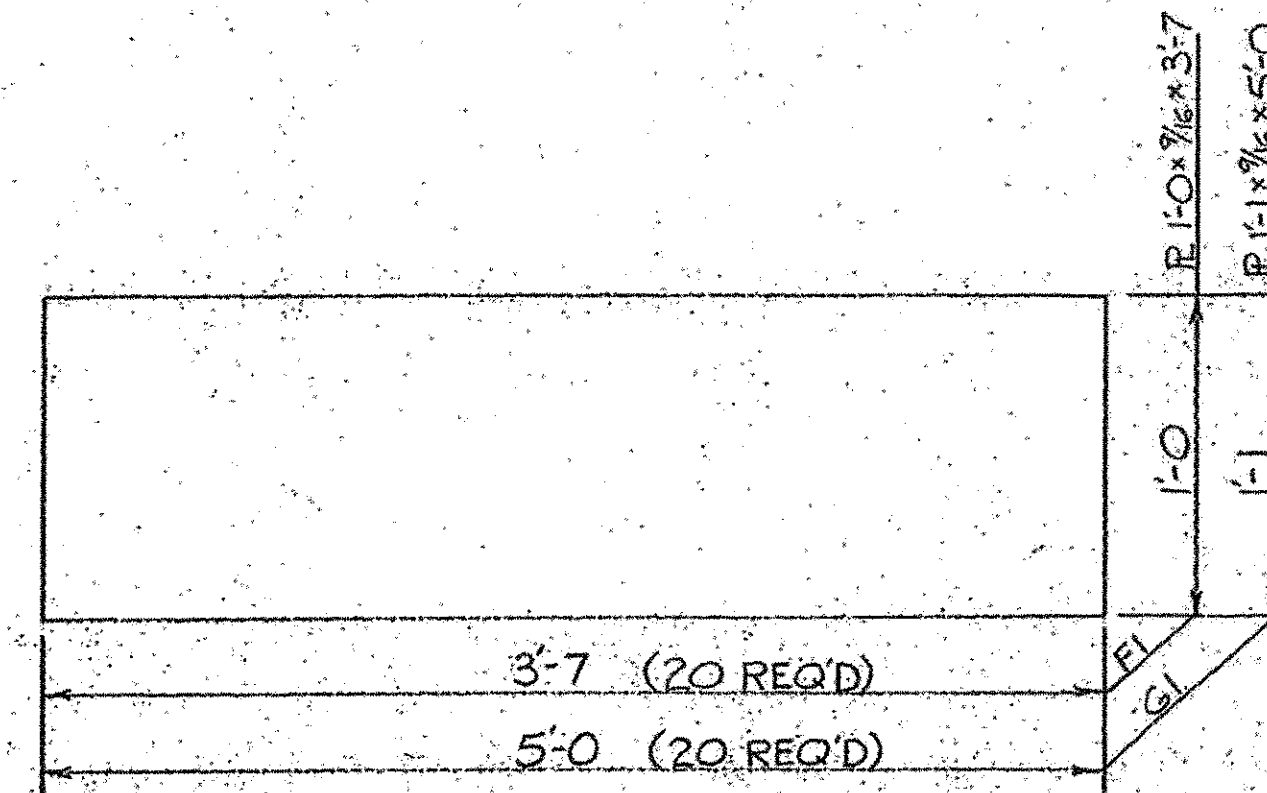


# FOR REFERENCE ONLY

REF NO.	P.O. NO.	NO.	ITEM	Y	PCS.	AMT	MARK	SECTION	LENGTH FT IN	STL SPEC	WT	HEAT	REMARKS
					4		A1	CLEARANCE MARKER BRACKET ASSY					
					8	2	aa1	L2x2x3/16	3 6		17		
					2		B1	CLEARANCE MARKER BRACKET ASSY					
					4	2	ba1	L2x2x3/16	3 6		19		
					2	1	bb1	L2x2x3/16	3 9		9		
					2	1	bc1	L2x2x3/16	1 0		2		
					2	1	bd1	L2x2x3/16	4 8 1/2		11		
					4		C1	R3/4x1/2	3 11		87		
					36		D1	R3/4x1/2	5 11		1177		
					50		E1	R1-1/2x1/2	1 9		2009		
					20		F1	R1-0x3/16	3 7		1645		
					20		G1	R1-1x3/16	5 0		2486		
					200			3/8" BOLT					N.A.M.

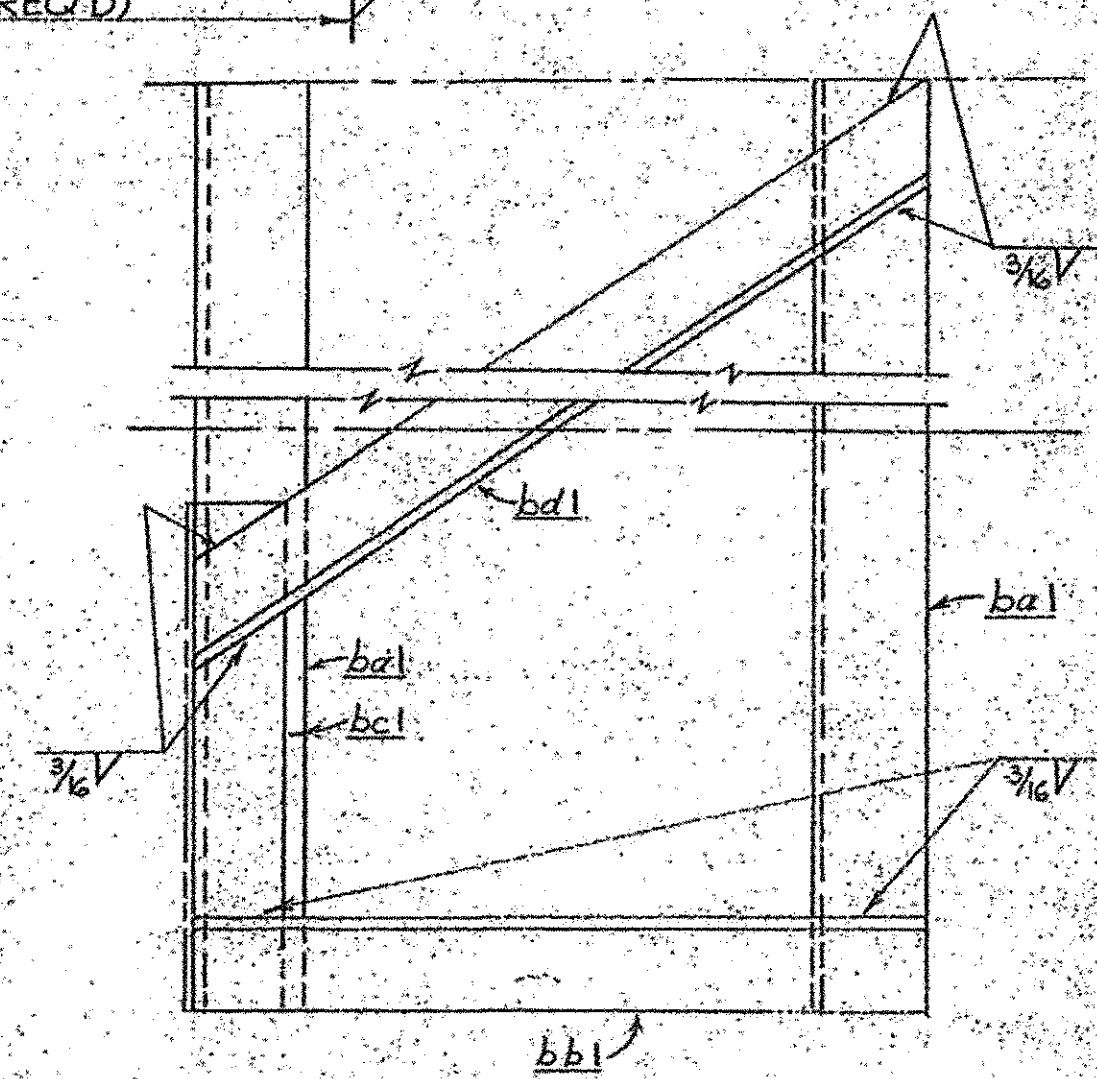
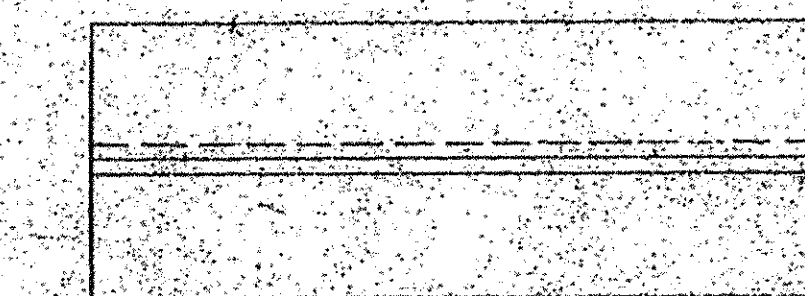
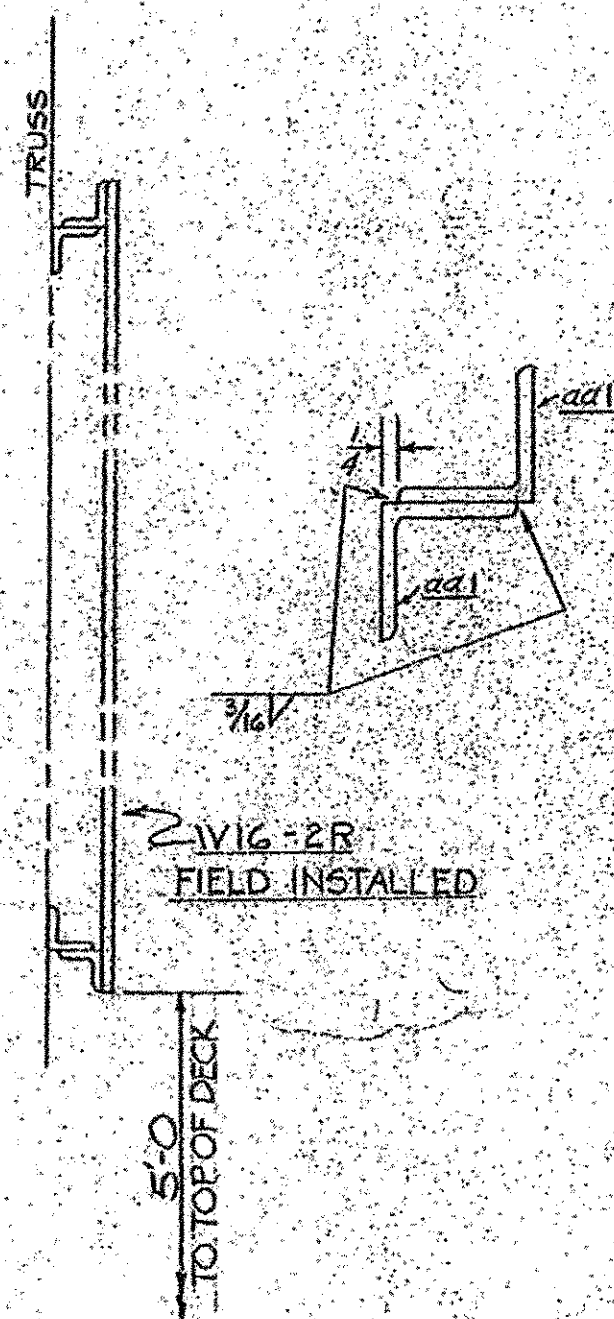
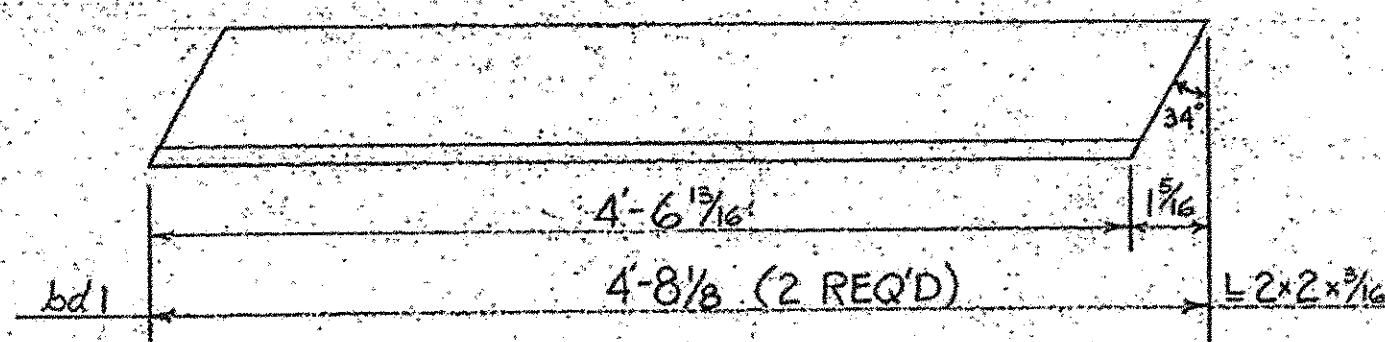
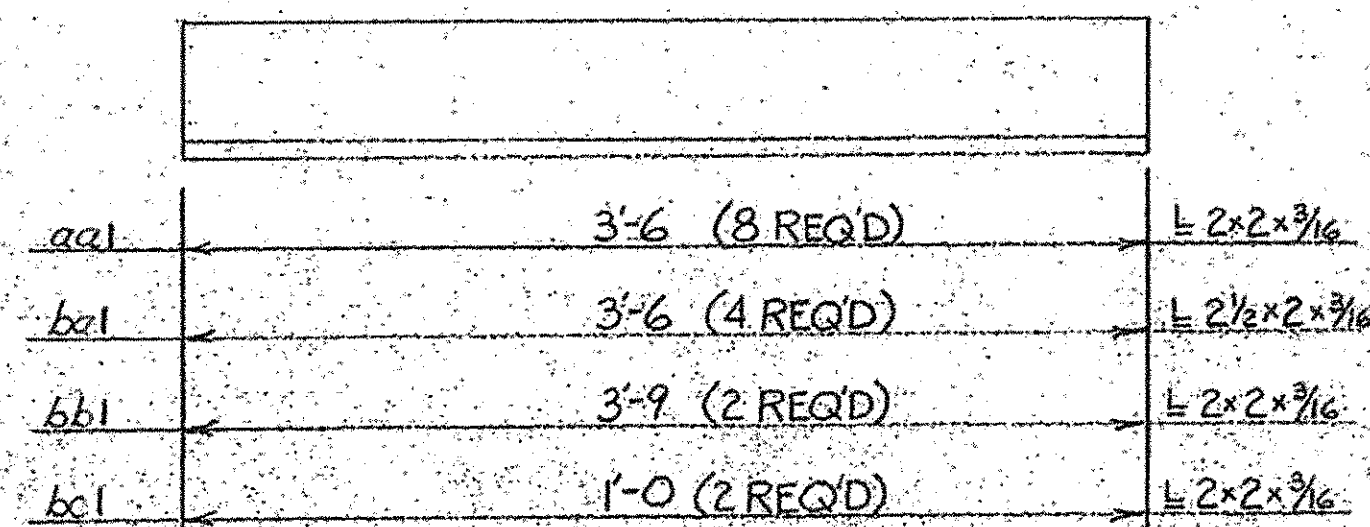


EI-BATTEN PLATE - 50 REQ'D

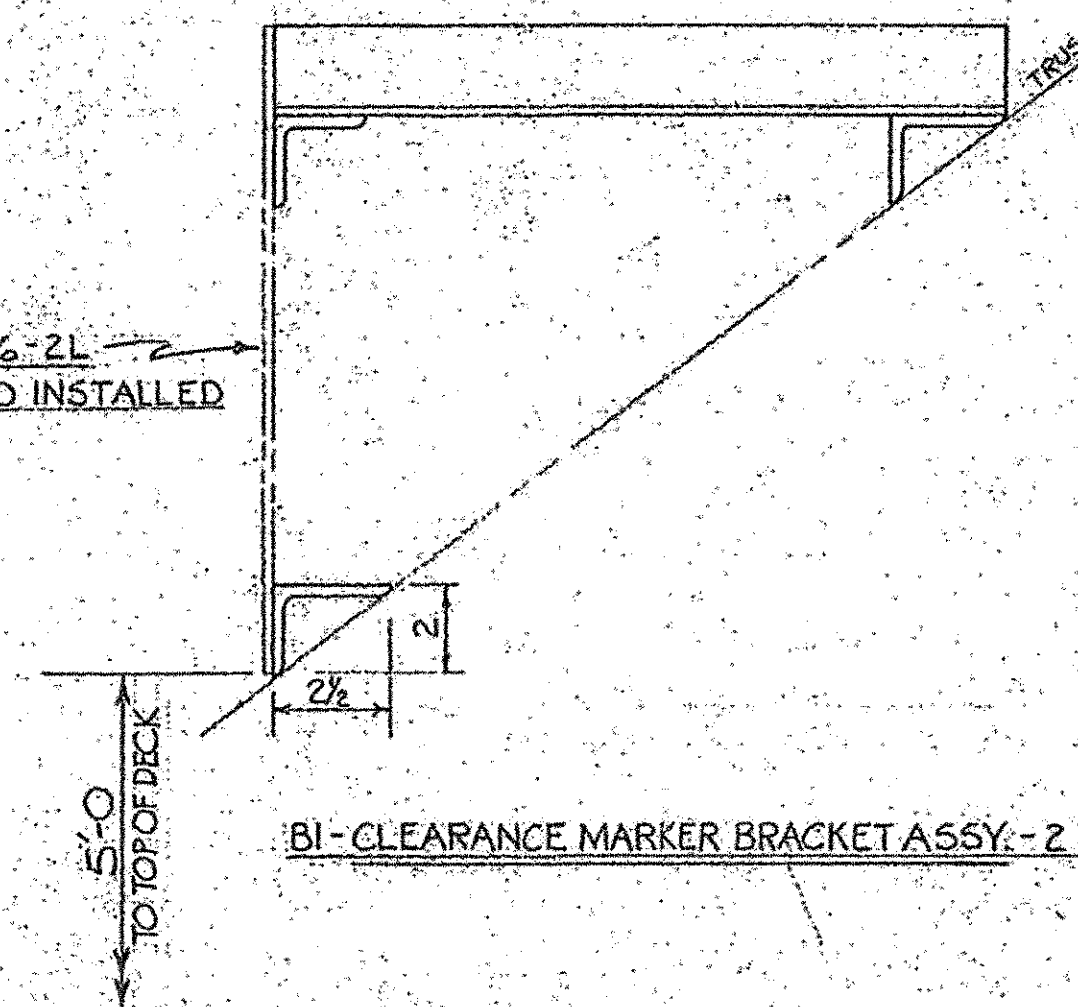


COVER PLATE

VERTICAL PLATE



VIG-2L - 2 FIELD INSTALLED



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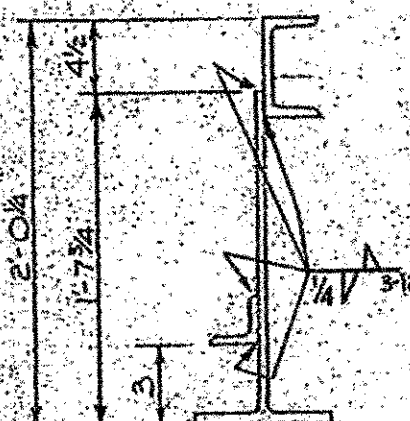
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SOUTH MILL STREET BRIDGE  
NEW CASTLE, PA.  
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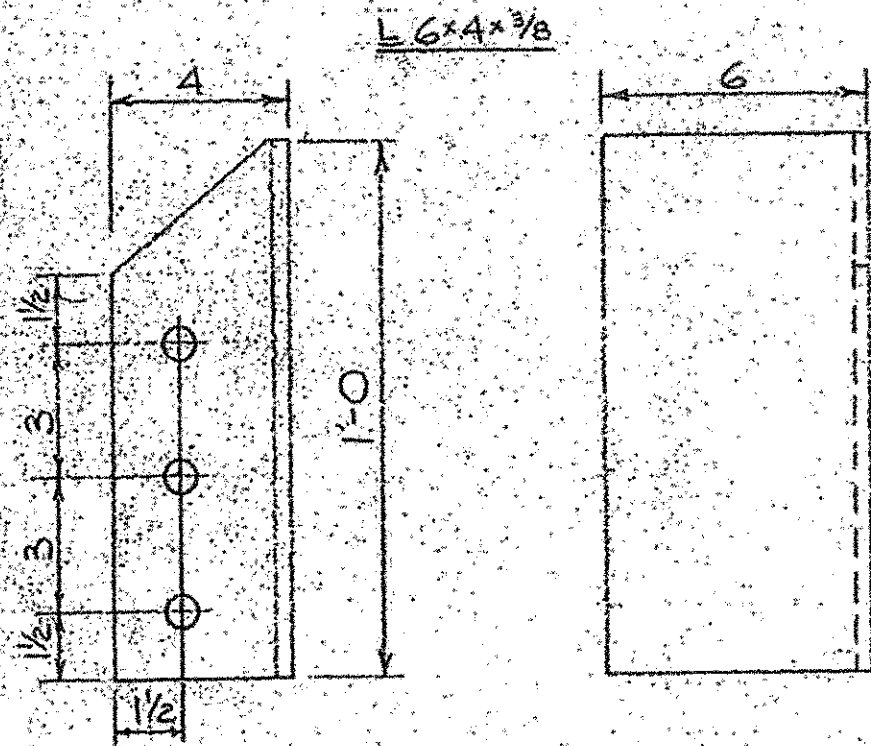
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\* - DIMENSION TO BE FIELD  
VERIFIED FOR INSTALLATION OF  
THE GUSSET ASSY. (SH-3) WHICH  
WILL ACT AS THE ATTACHMENT  
PLACE FOR THE END STOOLS OF  
THE EXPANSION DAM AT THE  
NORTH END.



F2 ANGLE 18 AS SHOWN 18 OPP HAND

REF NO.	P.O. NO.		$\Sigma$	PCS.	AMT.	MARK	SECTION	LENGTH		STL SPEC	WT	HEAT	REMARKS
	NO.	ITEM						FT	IN				
							CURB STRINGER ASSY.						
				4	1	aaz	21W62	22	7 $\frac{5}{8}$		5612		
				4	1	abz	L3x3x $\frac{5}{8}$	21	6 $\frac{1}{2}$		620		
				4	1	acz	MIGx15.3	20	7 $\frac{1}{2}$		1263		
				4		BZ	CURB STRINGER ASSY.						
				4	1	baz	21W62	22	8		5621		
				4	1	bbz	L3x3x $\frac{3}{8}$	21	6 $\frac{5}{8}$		621		
				4	1	bcz	MIGx15.3	20	7 $\frac{1}{2}$		1263		
				4		CZ	CURB STRINGER ASSY.						
				4	1	caz	21W62	22	8 $\frac{1}{2}$		5629		
				4	1	cbz	L3x3x $\frac{5}{8}$	21	6 $\frac{1}{2}$		621		
				4	1	ccz	MIGx15.3	20	7 $\frac{1}{2}$		1264		
				4		DZ	CURB STRINGER ASSY.						
				4	1	daz	21W62	22	8 $\frac{3}{4}$		5637		
				4	1	dbz	L3x3x $\frac{5}{8}$	21	6 $\frac{1}{2}$		621		
				4	1	dcz	MIGx15.3	20	8 $\frac{1}{2}$		1265		
				2		EZ	CURB STRINGER ASSY.						
				2	1	eaz	21W62	37	9 $\frac{1}{2}$		4686		
				2	1	ebz	L3x3x $\frac{5}{8}$	36	7 $\frac{1}{2}$		528		
				2	1	ecz	MIGx15.3	35	8 $\frac{1}{2}$		1093		
				36	FZ	L6x4x $\frac{3}{8}$	1	O			443		
				16	GZ	MIGx15.3	2	O			490		SPLICE CHANNEL

A2 - CURB STRINGER ASSY. : 2 AS SHOWN 2 OPP. HAND

B2 - CURB STRINGER ASSY. : do

C2 - CURB STRINGER ASSY. : do

D2 - CURB STRINGER ASSY. : do

E2 - CURB STRINGER ASSY. : 2 AS SHOWN

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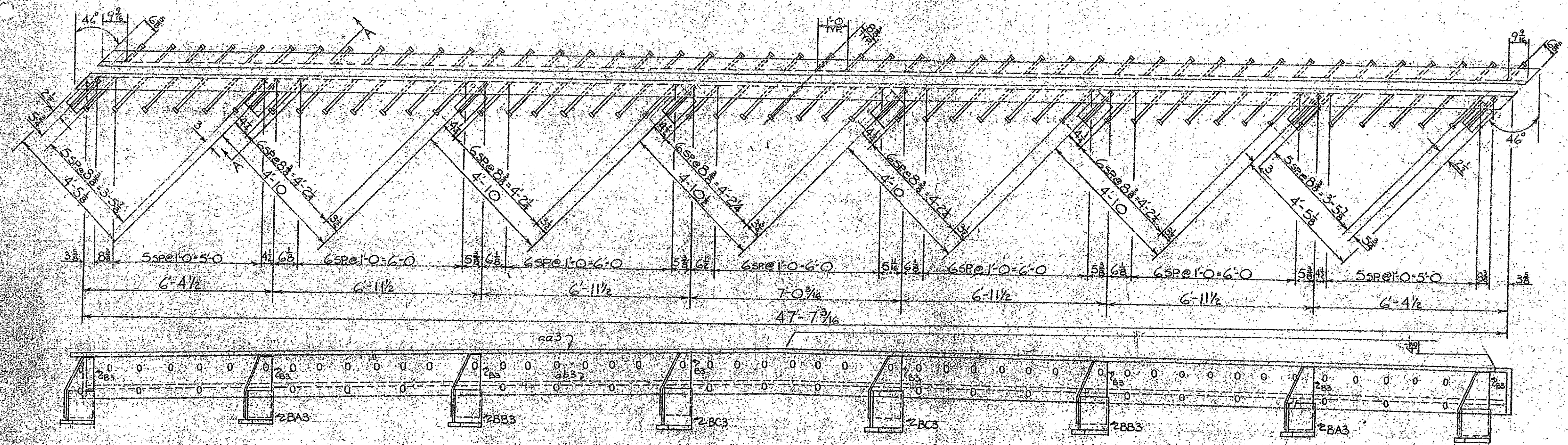
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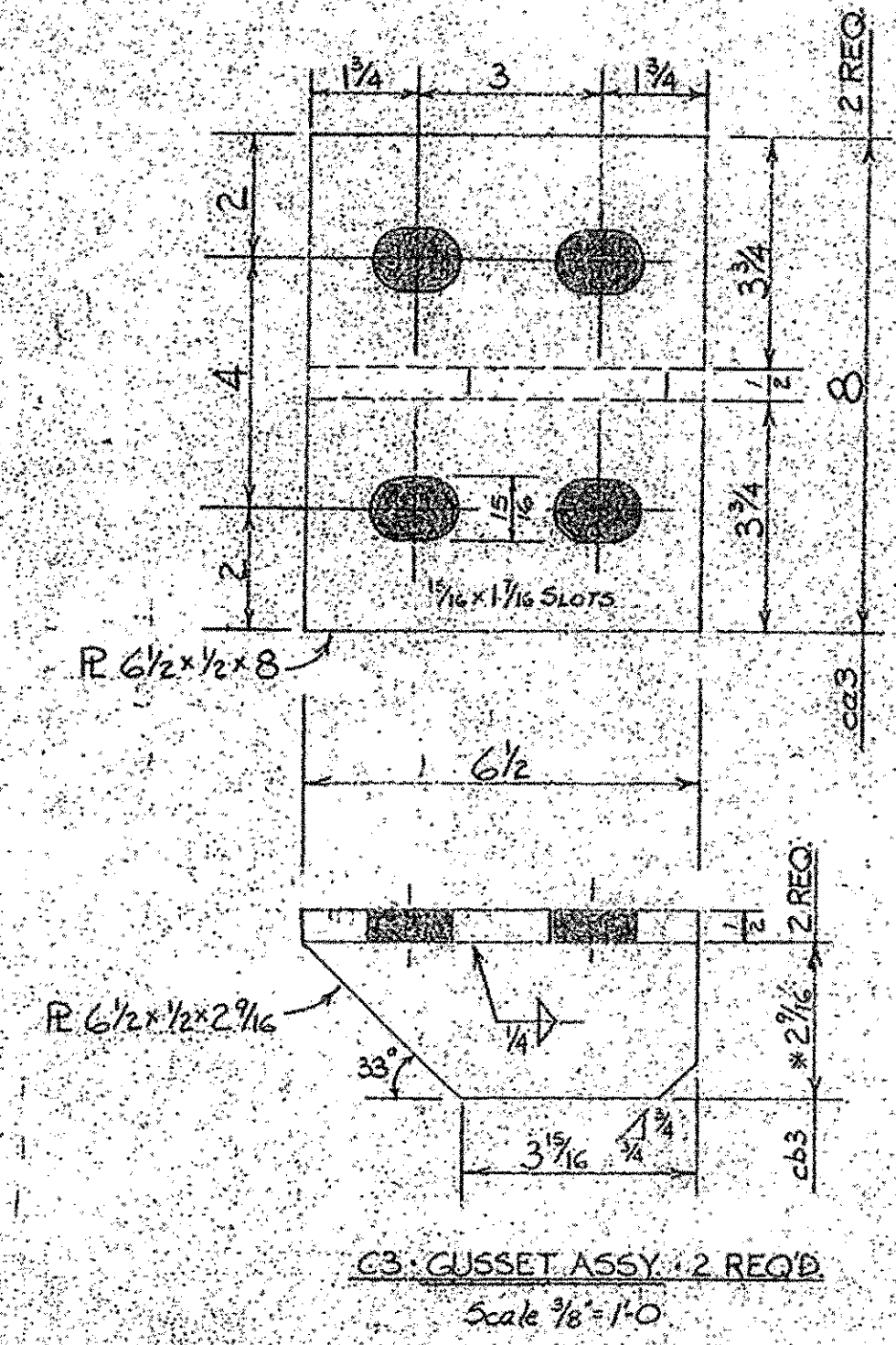
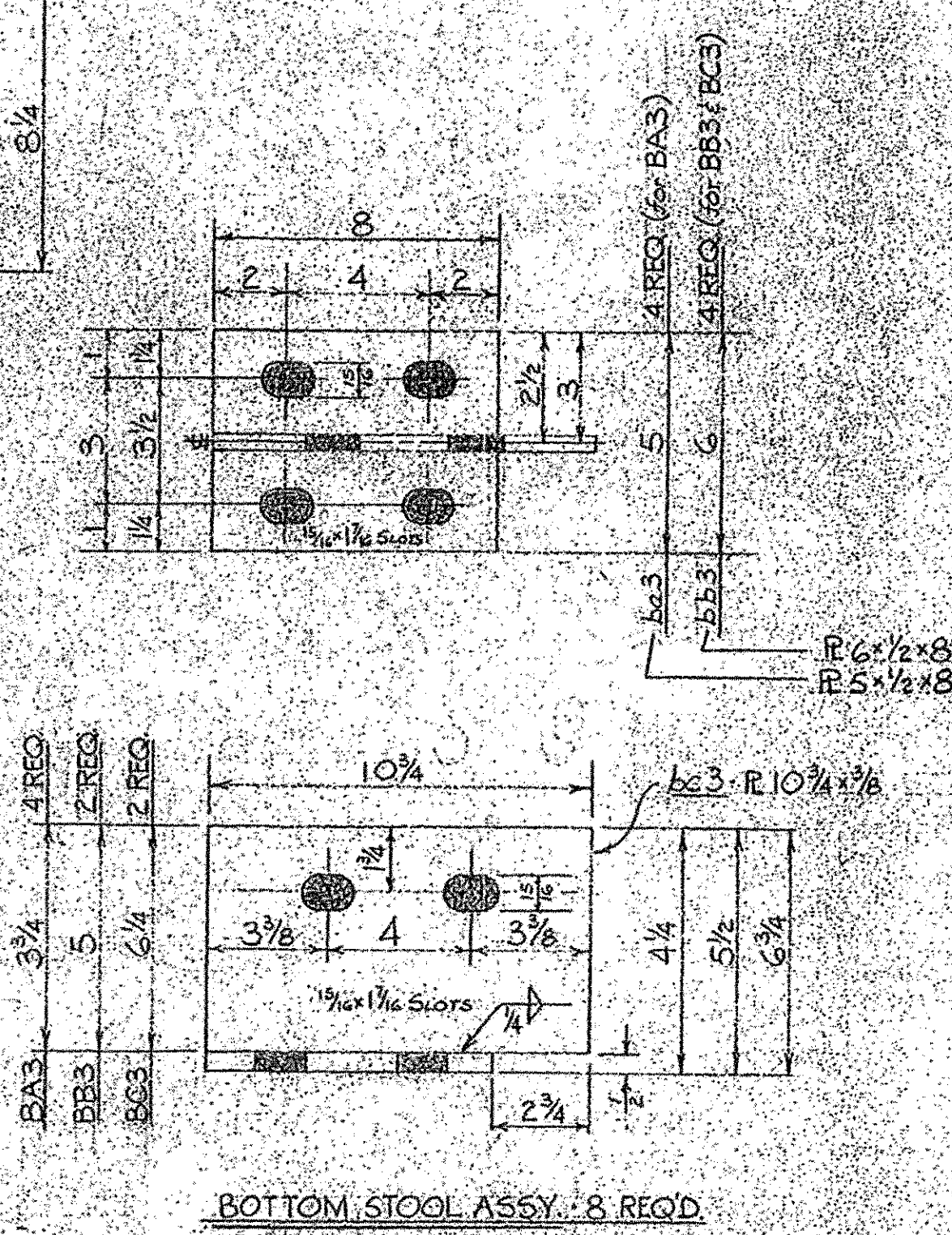
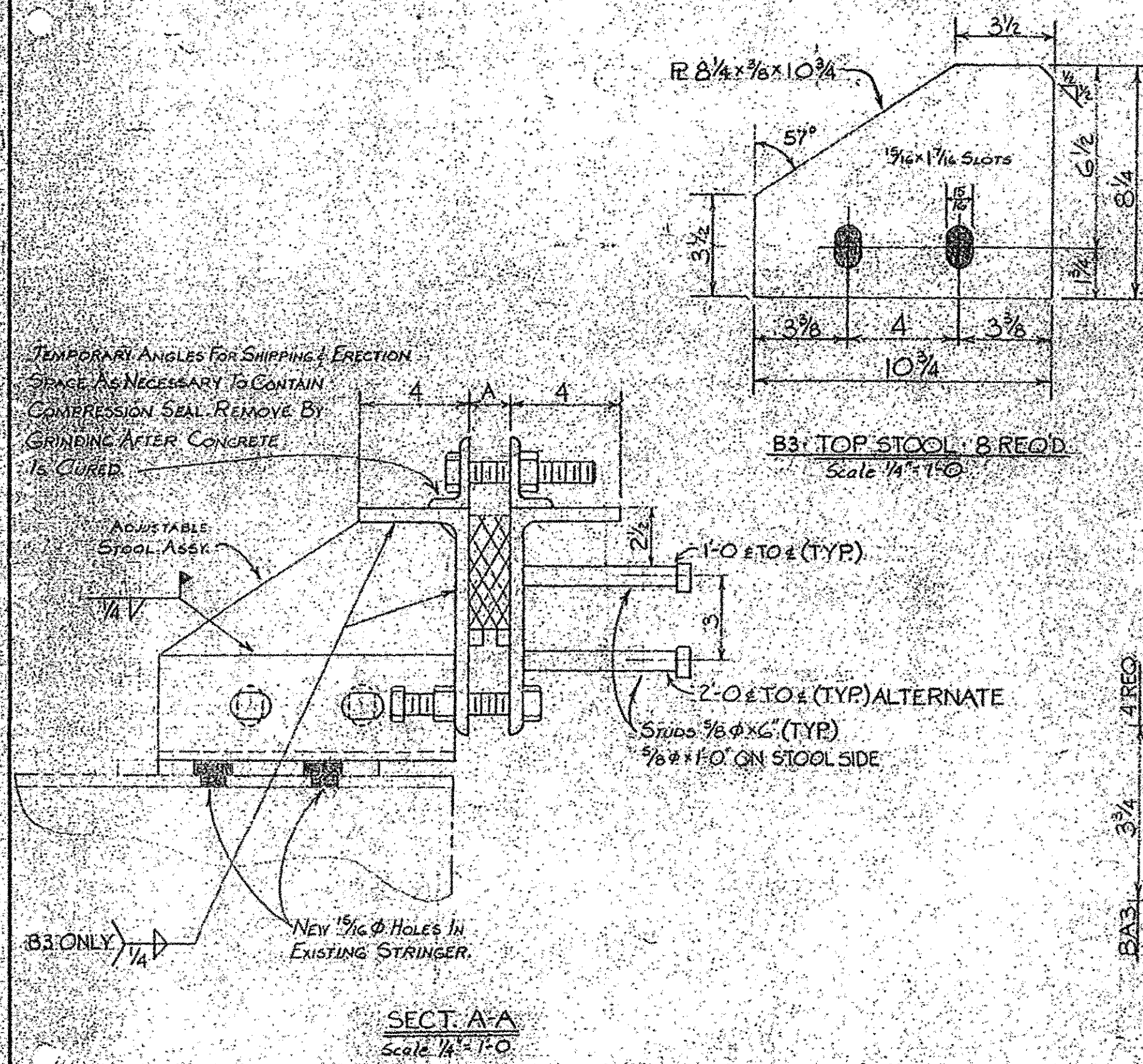
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A3 EXP DAM ONE REQ'D



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	TRACED	No. 3
	CKD. BY	