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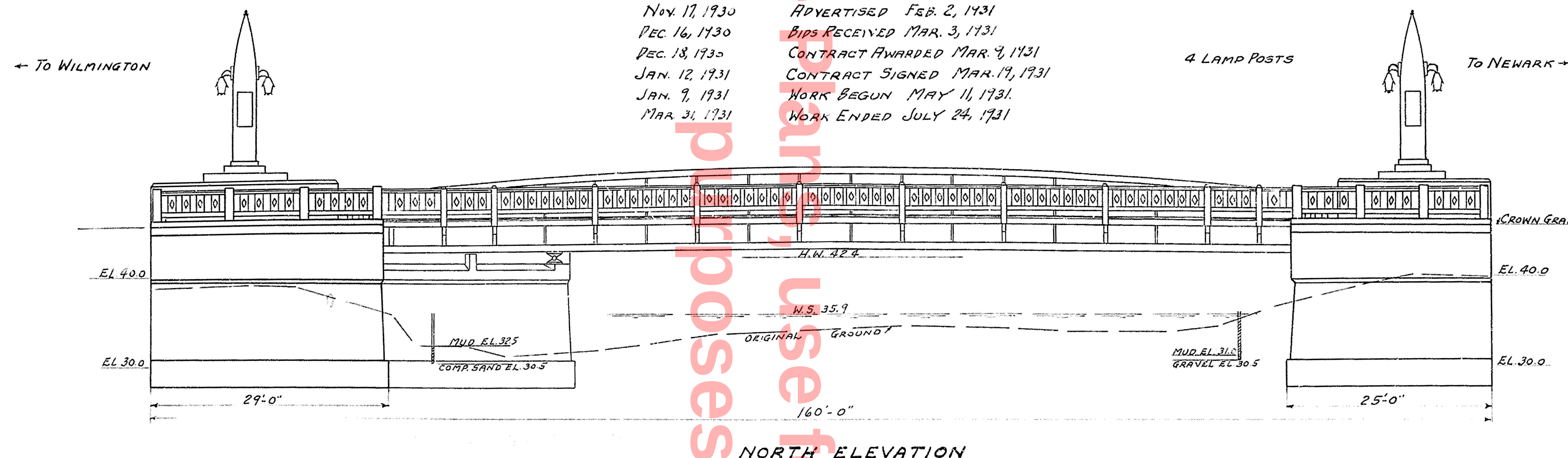
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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	COUNTY	CONTRACT	SHEET
10	DEL.	65A-B				NEWCASTLE	144	1

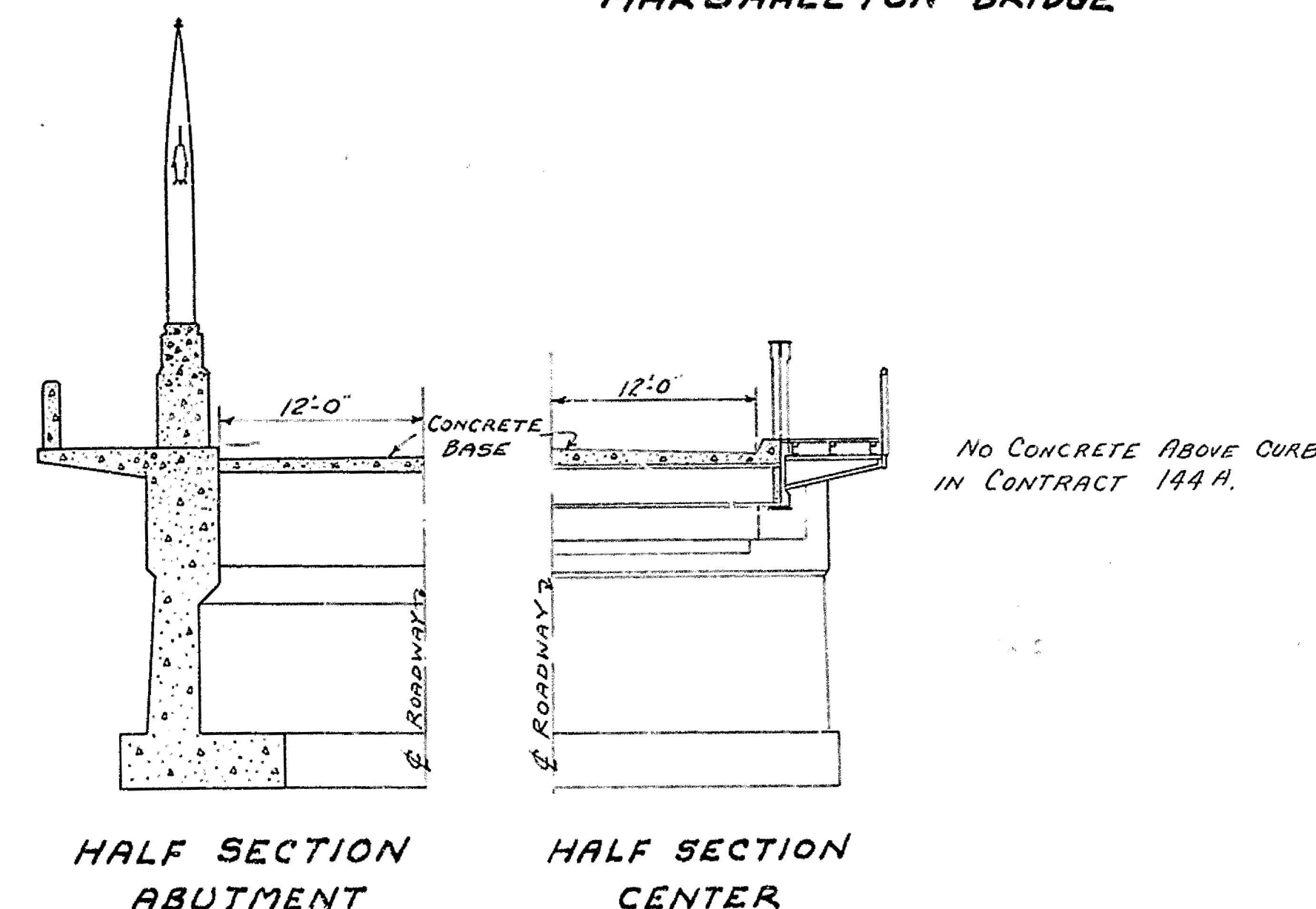
MARSHALLTON BRIDGE

SUBSTRUCTURE
Nov. 17, 1930
DEC. 16, 1930
DEC. 18, 1930
JAN. 12, 1931
JAN. 9, 1931
MAR. 31, 1931

SUPERSTRUCTURE
ADVERTISED FEB. 2, 1931
BIDS RECEIVED MAR. 3, 1931
CONTRACT AWARDED MAR. 9, 1931
CONTRACT SIGNED MAR. 19, 1931
WORK BEGUN MAY 11, 1931
WORK ENDED JULY 24, 1931



NORTH ELEVATION



NOTES-

THIS STRUCTURE IS LOCATED OVER THE RED CLAY CREEK ON THE MARSHALLTON CUTOFF. SEE A PLAN AND PROFILE, SHEET NO. 1 SHOWING CONTRACT 144, MARSHALLTON CUTOFF.

THE SHEETS IN THE CONTRACT FOR THE BRIDGE, ARE:-

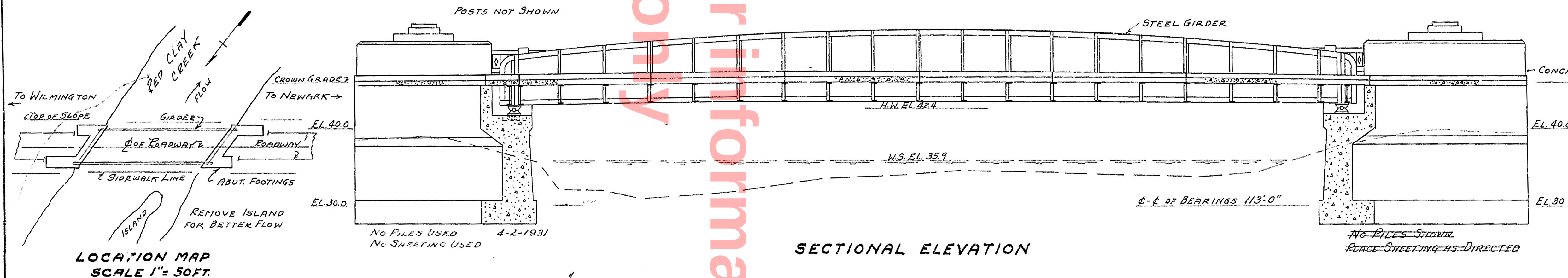
1. GENERAL PLAN
2. GIRDERS
3. DETAILS
4. RAILINGS - BRACKETS
5. ROADWAY
6. ABUTMENTS
7. ANCHOR BOLTS
8. ANCHOR BOLTS
9. LAMP POSTS.

THE SPECIFICATIONS ARE DATED JUNE 1922 AND ENTITLED "INSTRUCTIONS TO BIDDERS SPECIFICATIONS - ADVERTISEMENT AND PROPOSAL - CONTRACT - BOND." THE STRUCTURAL STEEL IS COVERED BY "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES AND INCIDENTAL STRUCTURES A.A.S.H.O. - AUGUST - 1928." THERE ARE SOME "SPECIAL PROVISIONS."

THE QUANTITIES GIVEN IN PROPOSAL ARE CORRECT TO WITHIN FIVE (5) PER CENT. FOR THE BRIDGE AS SHOWN ON THE PLANS.

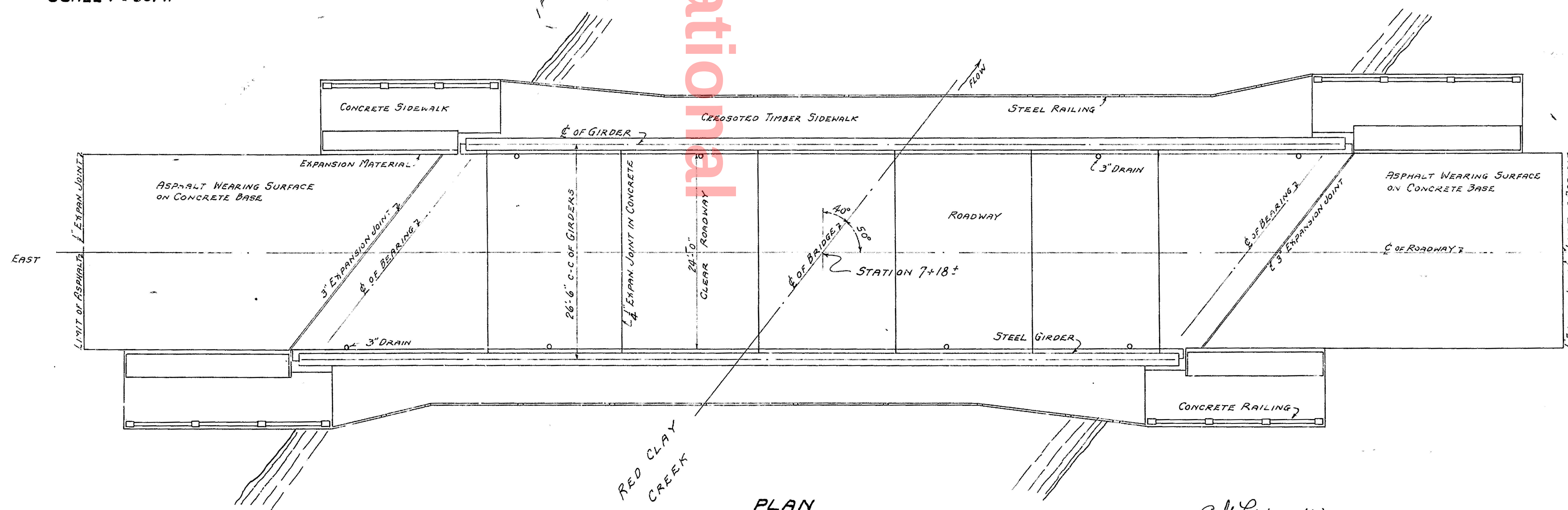
A GRADE SHEET HAS BEEN PREPARED SHOWING GRADES OF ROADWAY AND SIDEWALKS. ANOTHER SHEETS SHOWS ADDITIONAL SECTIONS OF STREAM WITH ROD BORINGS.

CONTRACT 144 - STEEL SUPERSTRUCTURE
CONTRACT 144A - FILL AND SUBSTRUCTURE
CONTRACT 144B - ROADWAY.



SECTIONAL ELEVATION

LOCATION MAP
SCALE 1" = 50 FT.



PLAN

APPROVED *A. H. Livingston*
BRIDGE ENGINEER
APPROVED *[Signature]*
CHIEF ENGINEER

GENERAL PLAN

SHEET NO. 1

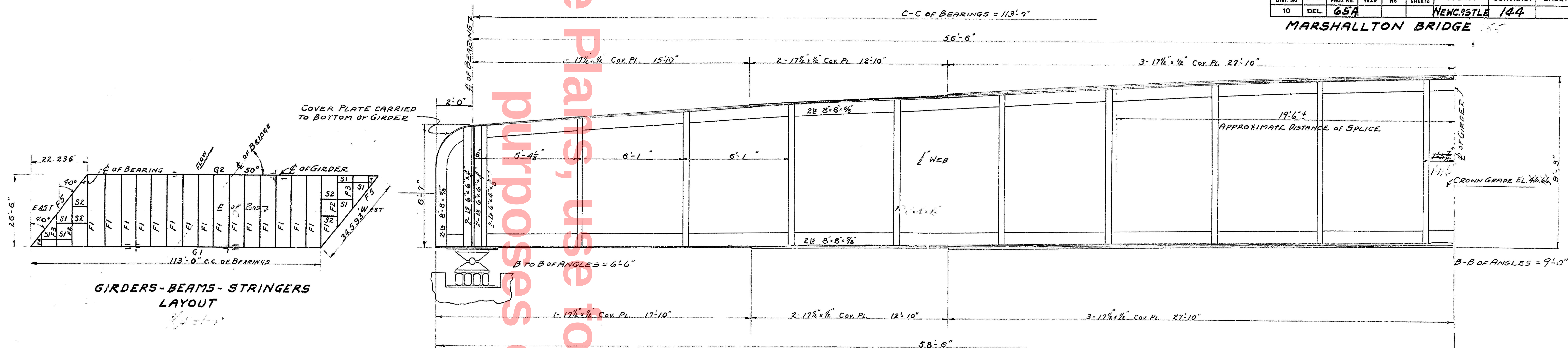
HIGHWAY DEPARTMENT
DELAWARE
CONTRACT 144 A-B
STEEL GIRDER BRIDGE
RED CLAY CREEK

10 2 6 10 14 18 22 FT.
SCALE 1/8" = 1'-0"
FEDERAL AID PROJECT NO. 65A-B
SEPTEMBER - 1930

12 J.G.
T. R.
A. J.G.
9/4-1930

J. H. WEIL & CO., PHILA. 305-130

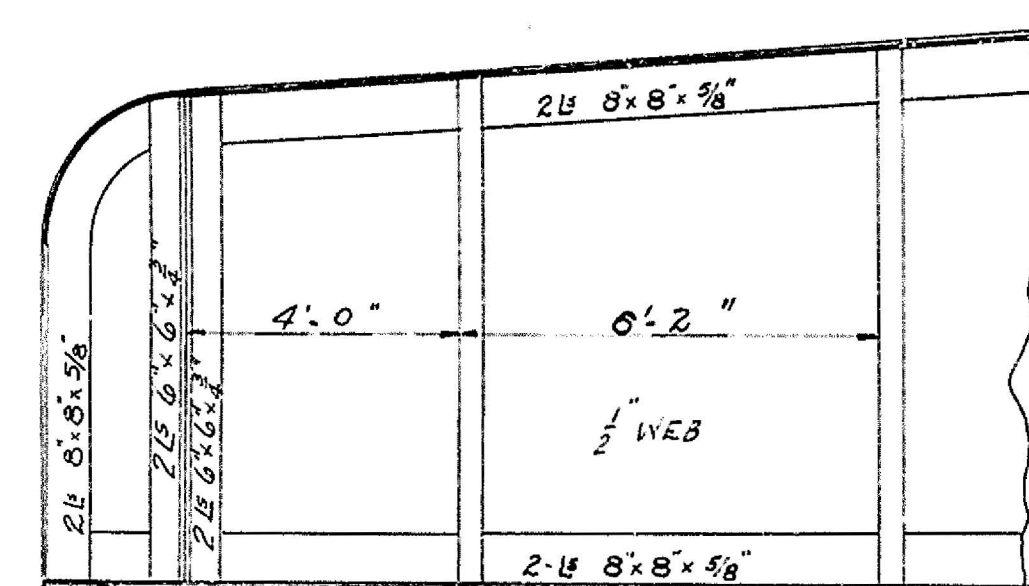
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	COUNTY	CONTRACT	SHEET
10	DEL.	65A				NEWCASTLE	144	



ERECTION STARTED MAY 23, 1931
ERECTION COMPLETED JUNE 6, 1931
PAINTED JULY 15 TO 22, 1931.

ERECTION COMPLETED JUNE 6, 1931

PAINTED JULY 15 TO 22, 1931.



THE SIDEWALK IS DESIGNED FOR 80# PER SQUARE FEET.
THE LIVE LOAD FOR GIRDER DESIGN IS 80# PER SQ. FOOT
FOR ROADWAY AND 30# PER SQ FOOT FOR SIDEWALKS.

FOR ROADWAY AND 30¢ PER SQ. FOOT FOR SIDEWALKS.

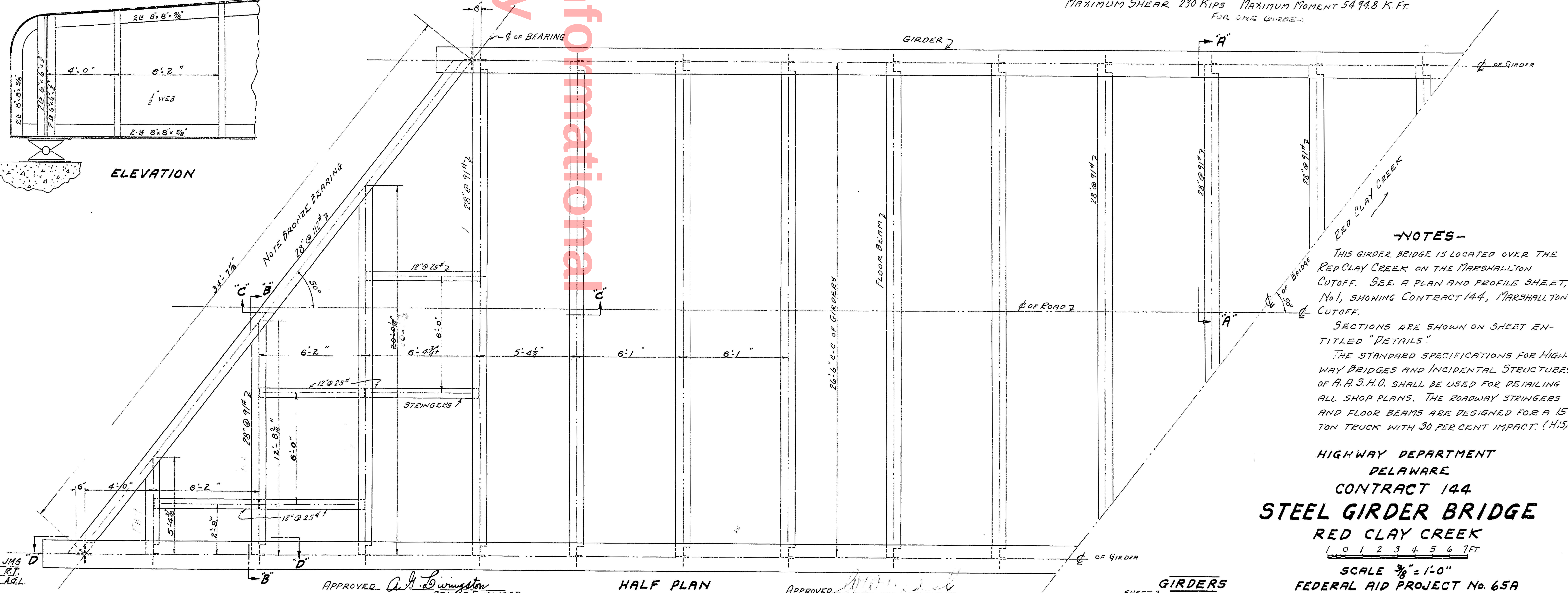
MAIN GIRDELS 9'-0" & 6'-6" B-B's

$$D_{\text{eff}} = 7\phi$$

14

MAXIMUM SHEAR 230 KIPS MAXIMUM MOMENT 54

FOR ONE GURDWAR



NOTES-

THIS GIRDER BRIDGE IS LOCATED OVER THE
RED CLAY CREEK ON THE MARSHALLTON
CUTOFF. SEE A PLAN AND PROFILE SHEET,
NO. 1, SHOWING CONTRACT 144, MARSHALLTON
CUTOFF.

SECTIONS ARE SHOWN ON SHEET ENTITLED "DETAILS."

THE STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES AND INCIDENTAL STRUCTURES OF A.A.S.H.O. SHALL BE USED FOR DETAILING ALL SHOP PLANS. THE ROADWAY STRINGERS AND FLOOR BEAMS ARE DESIGNED FOR A 15 TON TRUCK WITH 30 PERCENT IMPACT. (H/5)

HIGHWAY DEPARTMENT
DELAWARE

CONTRACT 144

STEEL GIRDER BRIDGE

RED CLAY CREEK

1 0 1 2 3 4 5 6 7F

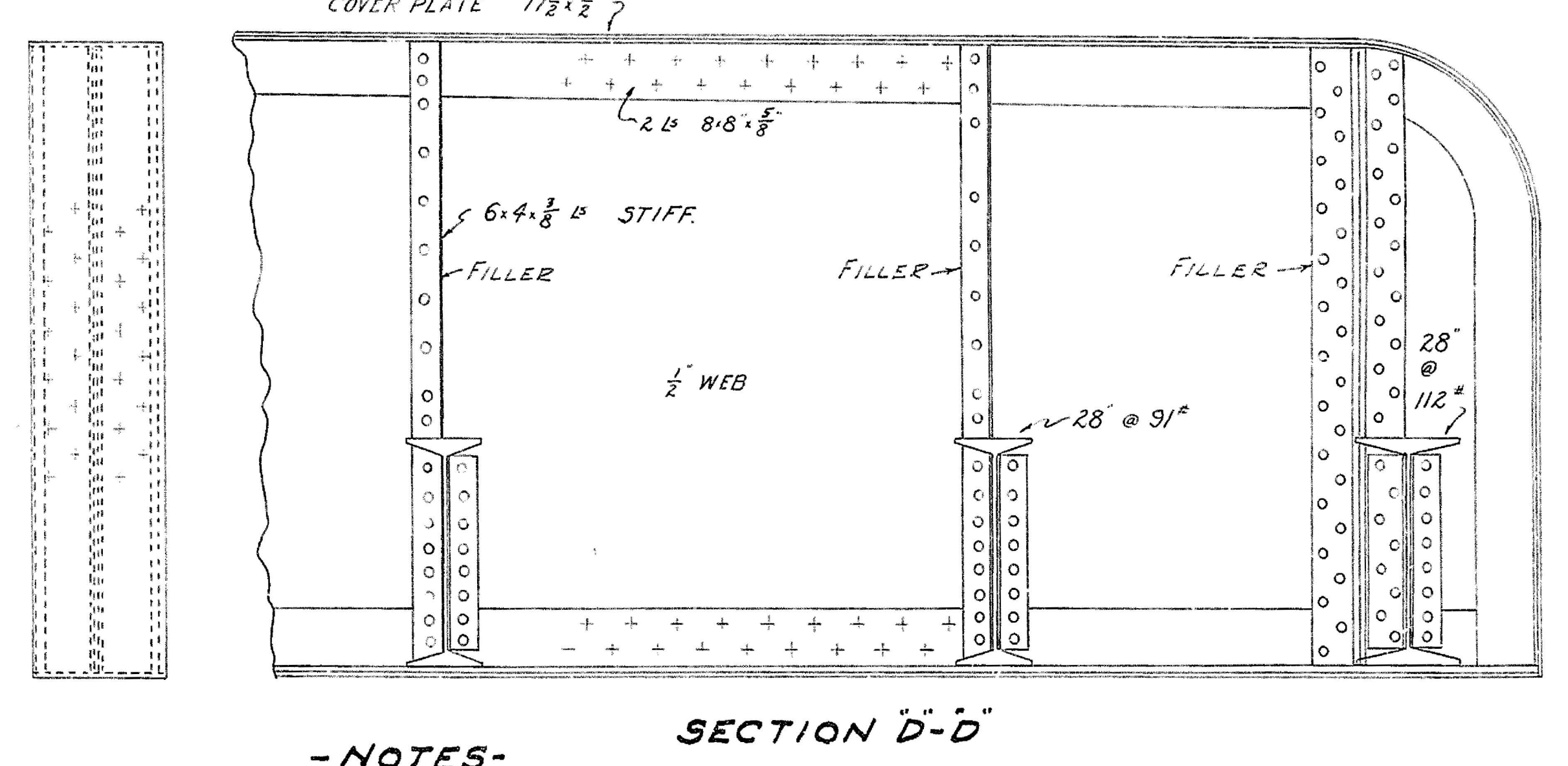
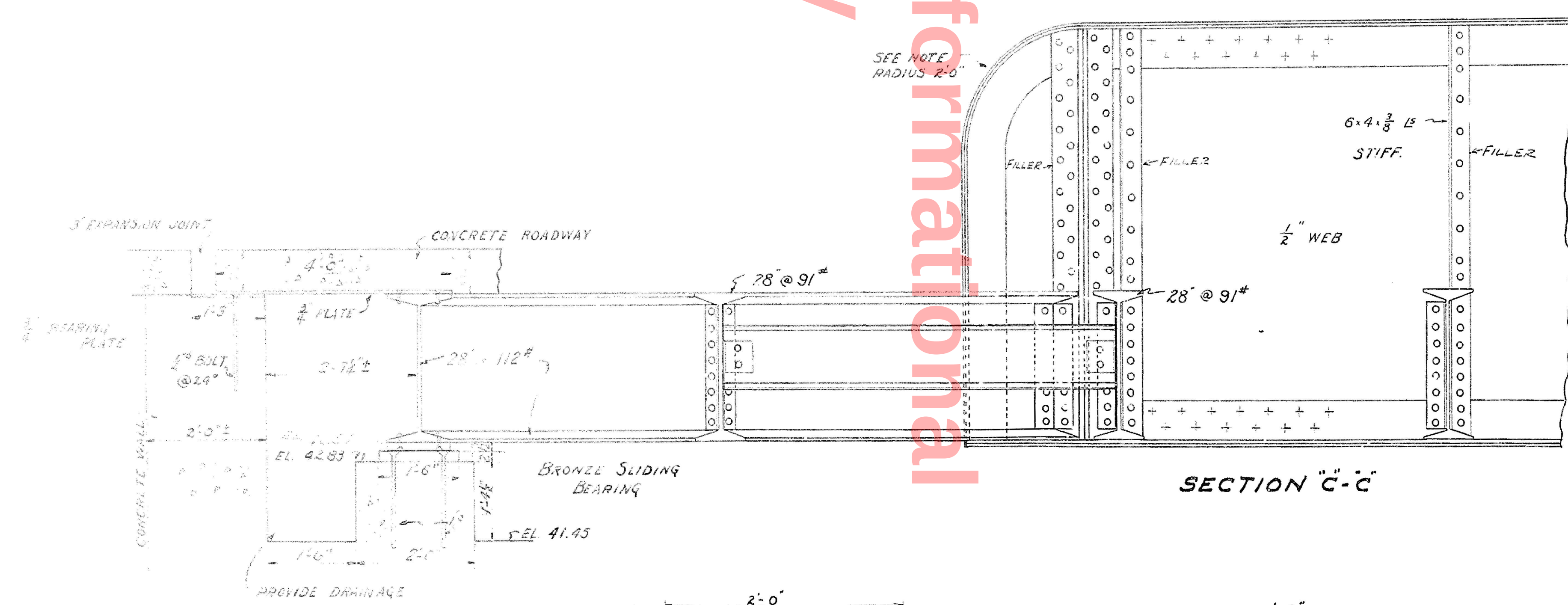
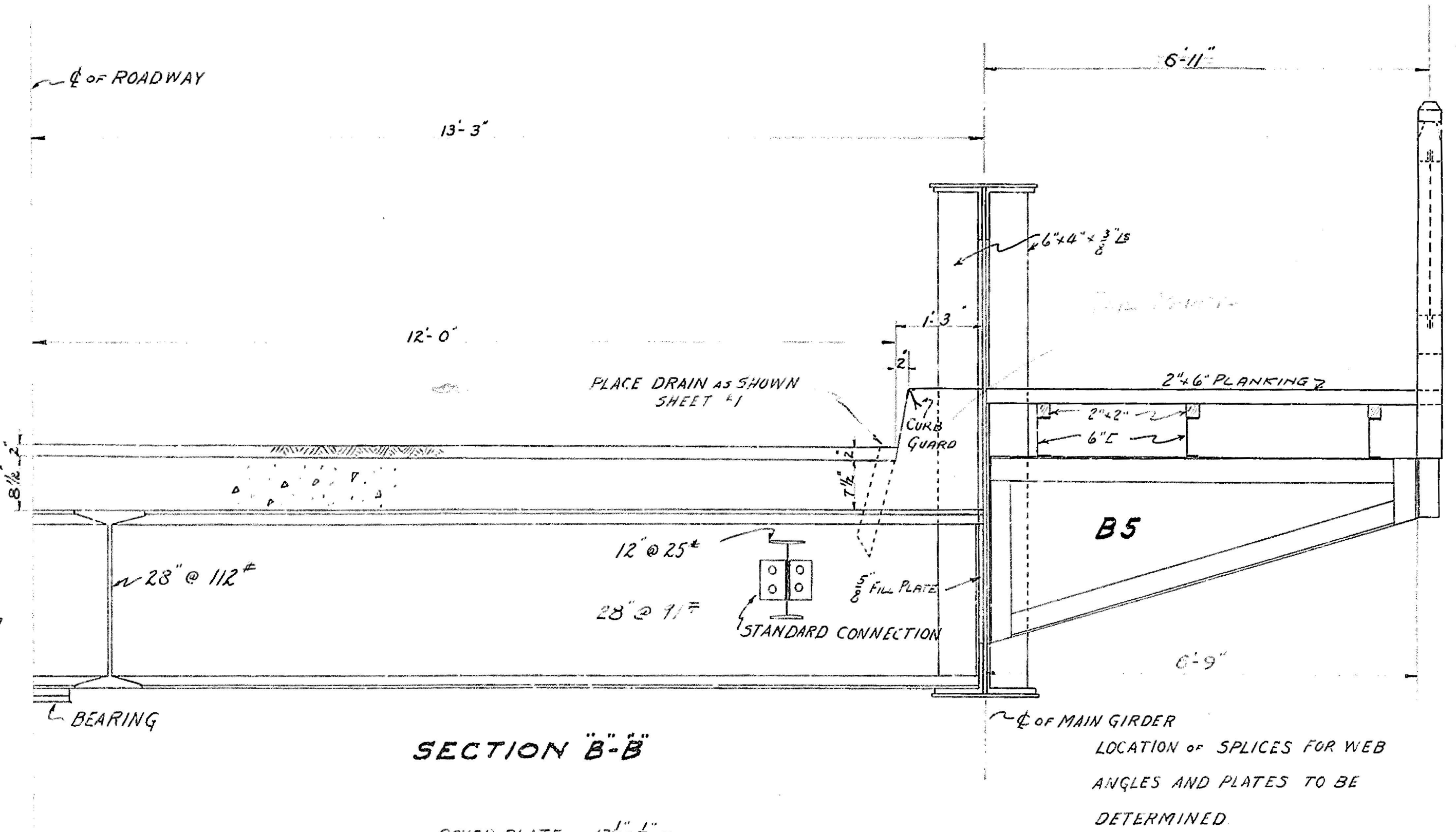
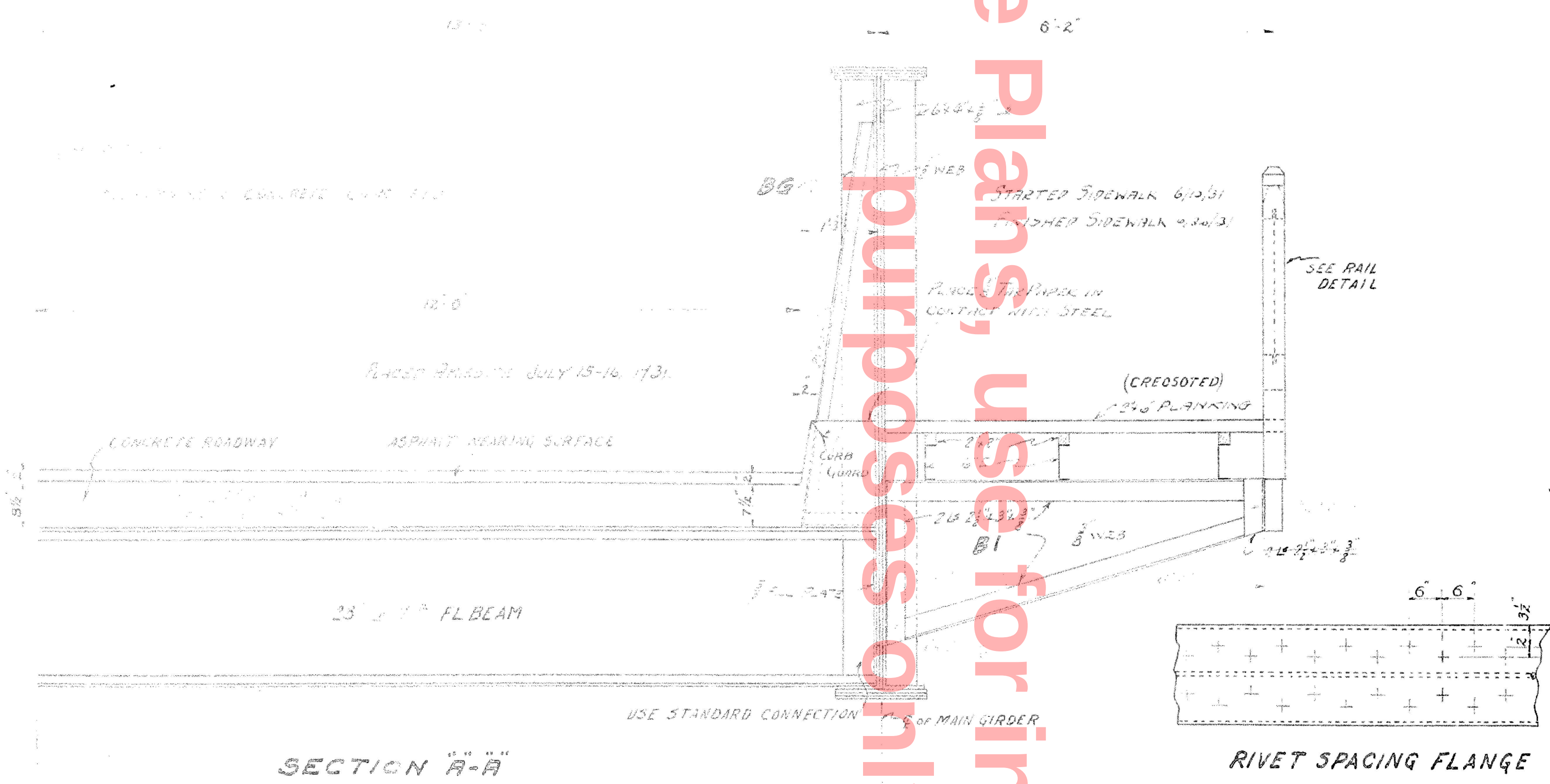
SCALE $\frac{3}{8}" = 1'-0"$

FEDERAL AID PROJECT No. 65A

SEPTEMBER-1930

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	COUNTY	CONTRACT	SHEET
10	DEL.	65A				NEWCASTLE	144	

MARSHALLTON BRIDGE 155



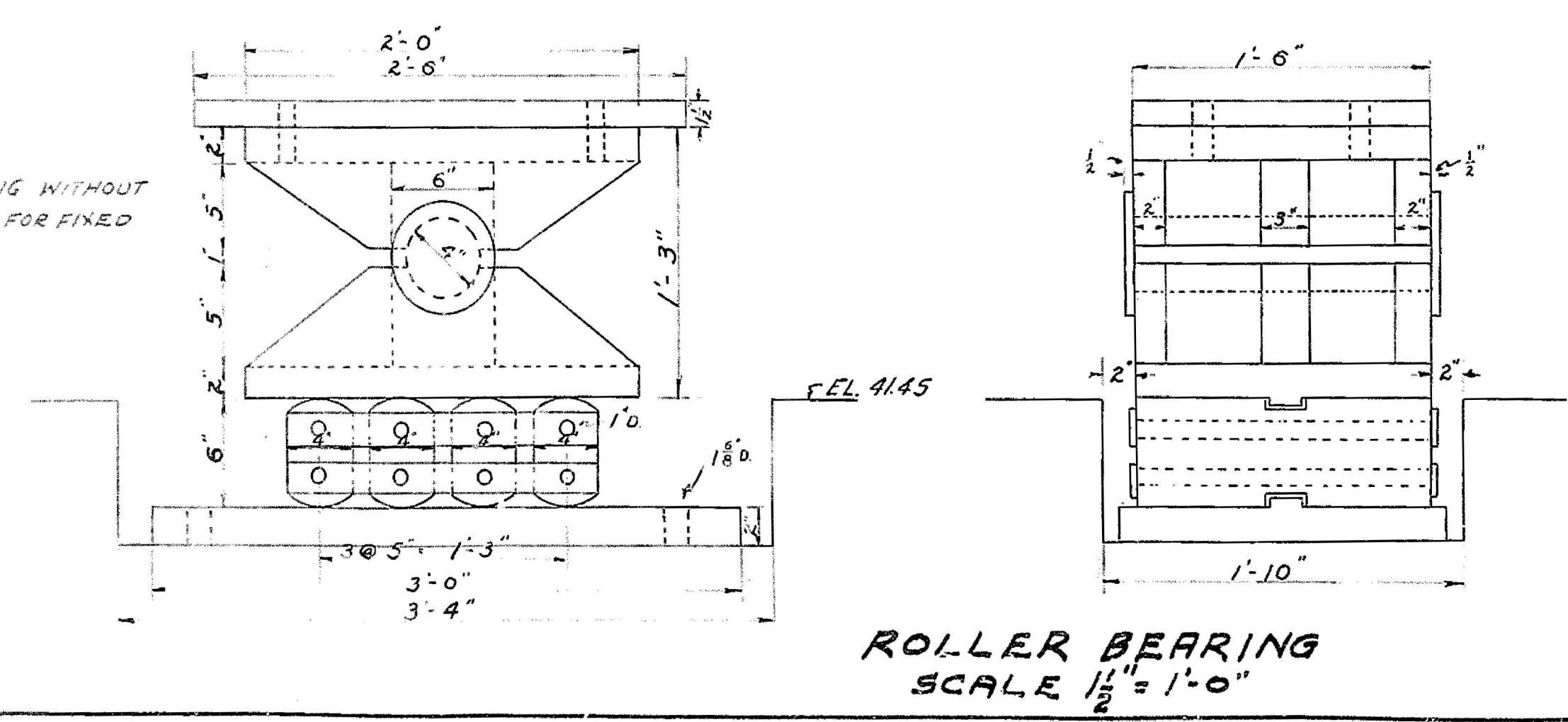
-NOTES-

THE LOCATION OF THESE SECTIONS ARE SHOWN ON THE SHEET ENTITLED "GIRDERS" No. 2, THE "GENERAL PLAN", No. 1, SHOWS ELEVATIONS AND TYPICAL SECTIONS.

THE SPECIFICATIONS OF THE A. A. S. H. O. SHALL BE USED; UNDER DATE OF AUGUST 1, 1928; STANDARD SPECIFICATION FOR HIGHWAY BRIDGES AND INCIDENTAL STRUCTURES. (H15)

USE $\frac{7}{8}$ " RIVETS, SUBPUNCHED AND REAMED. ALL EDGES THAT ARE EXPOSED SHOULD SHOW A CLEAN AND EVEN CUT.

BEARINGS SHALL BE CAST STEEL FOR THE TWO MAIN GIRDERS AND PHOSPHOR BRONZE FOR I BEAMS ON ABUTMENTS.



HIGHWAY DEPARTMENT
DELAWARE
CONTRACT 144
STEEL GIRDER BRIDGE
RED CLAY CREEK

1 2 3 FT.
SCALE $\frac{3}{4}$ " = 1'-0"

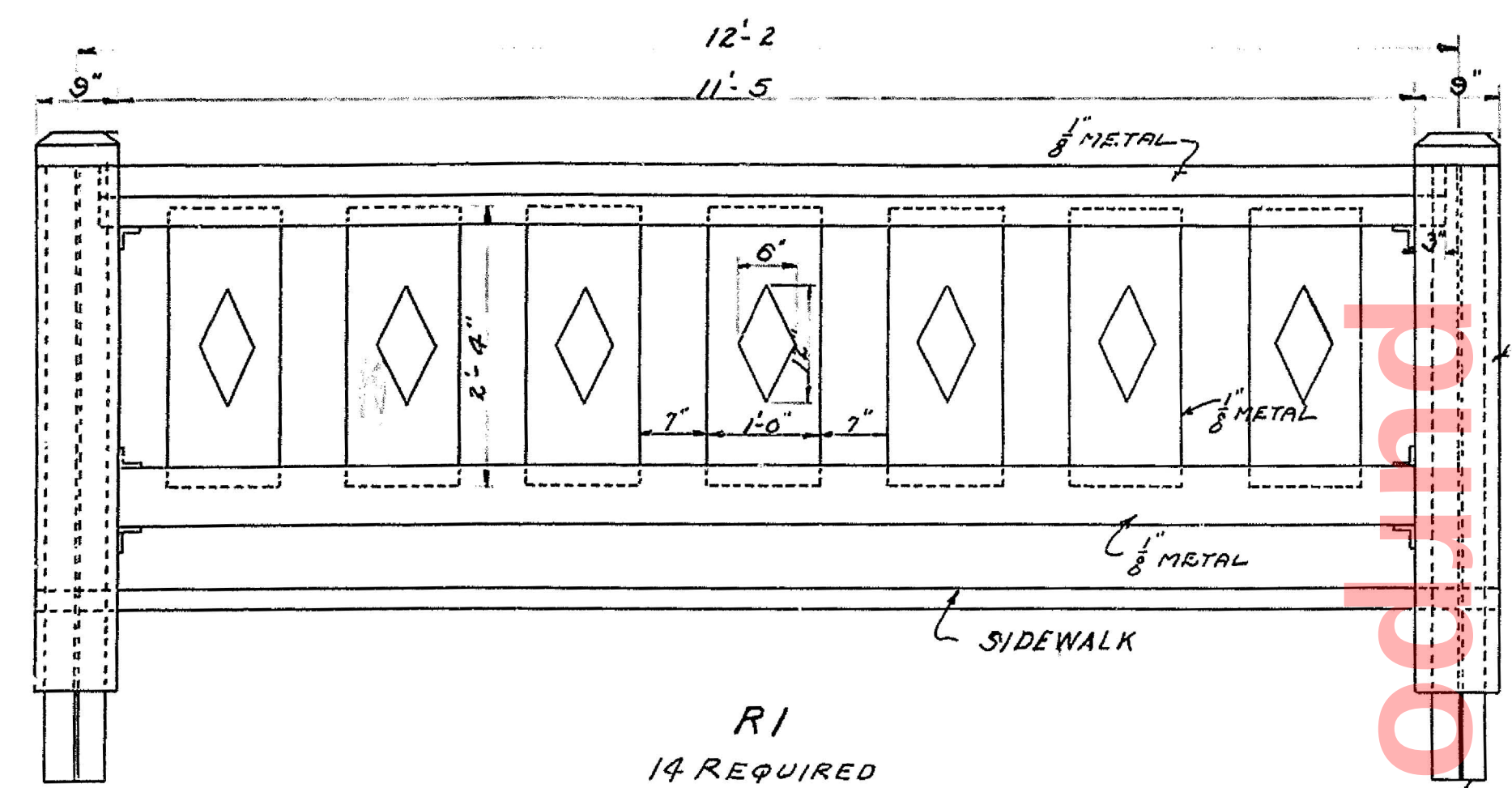
FEDERAL AID PROJECT No. 65A
SEPTEMBER-1930

APPROVED *A. D. Livingston*
BRIDGE ENGINEER

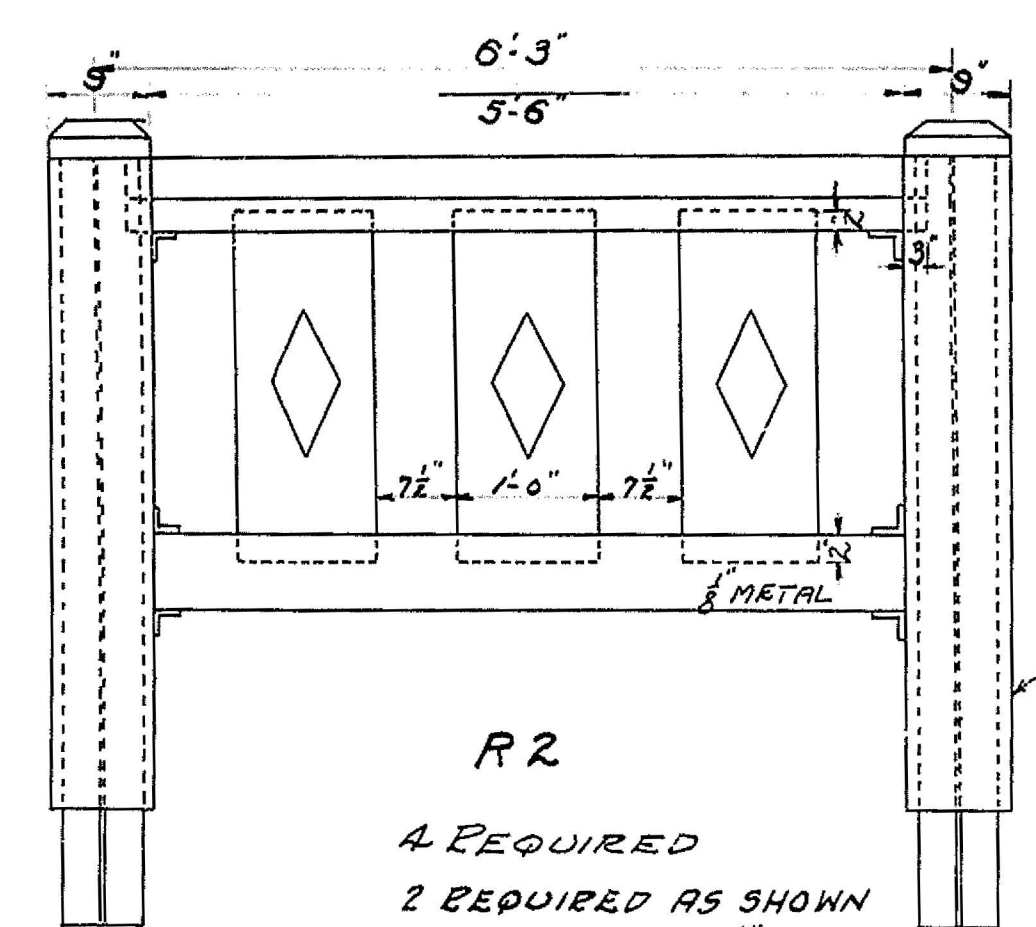
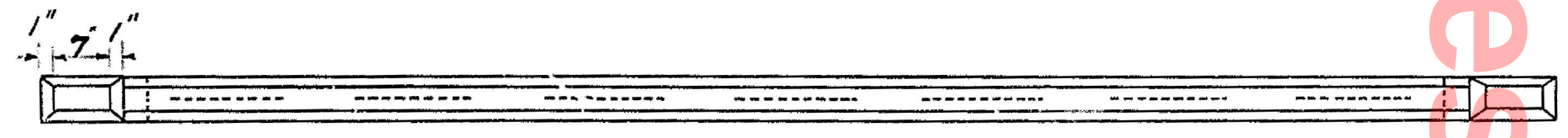
APPROVED *[Signature]*
CHIEF ENGINEER

DETAILS
SHEET 3

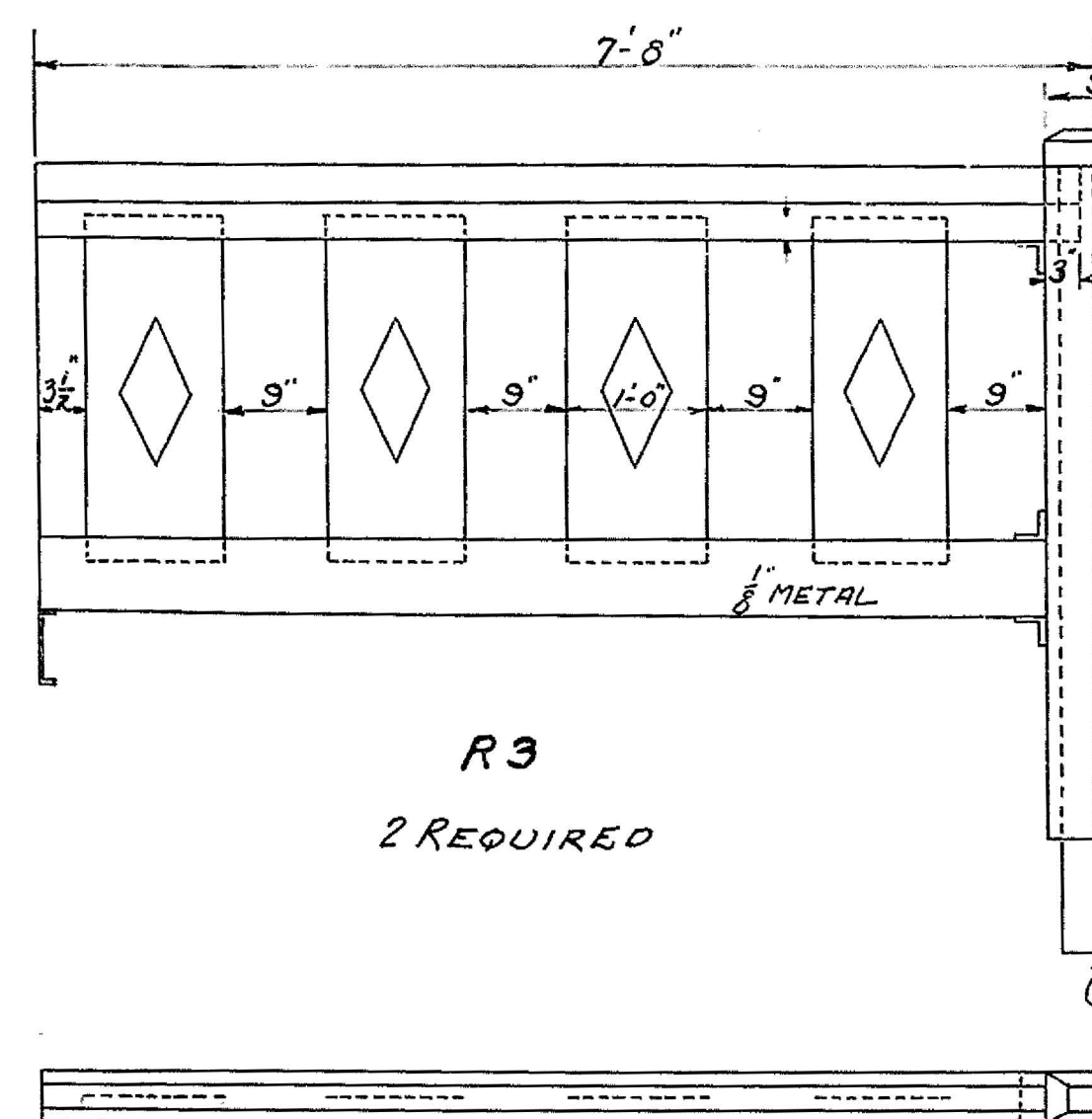
MARSHALLTON BRIDGE 153



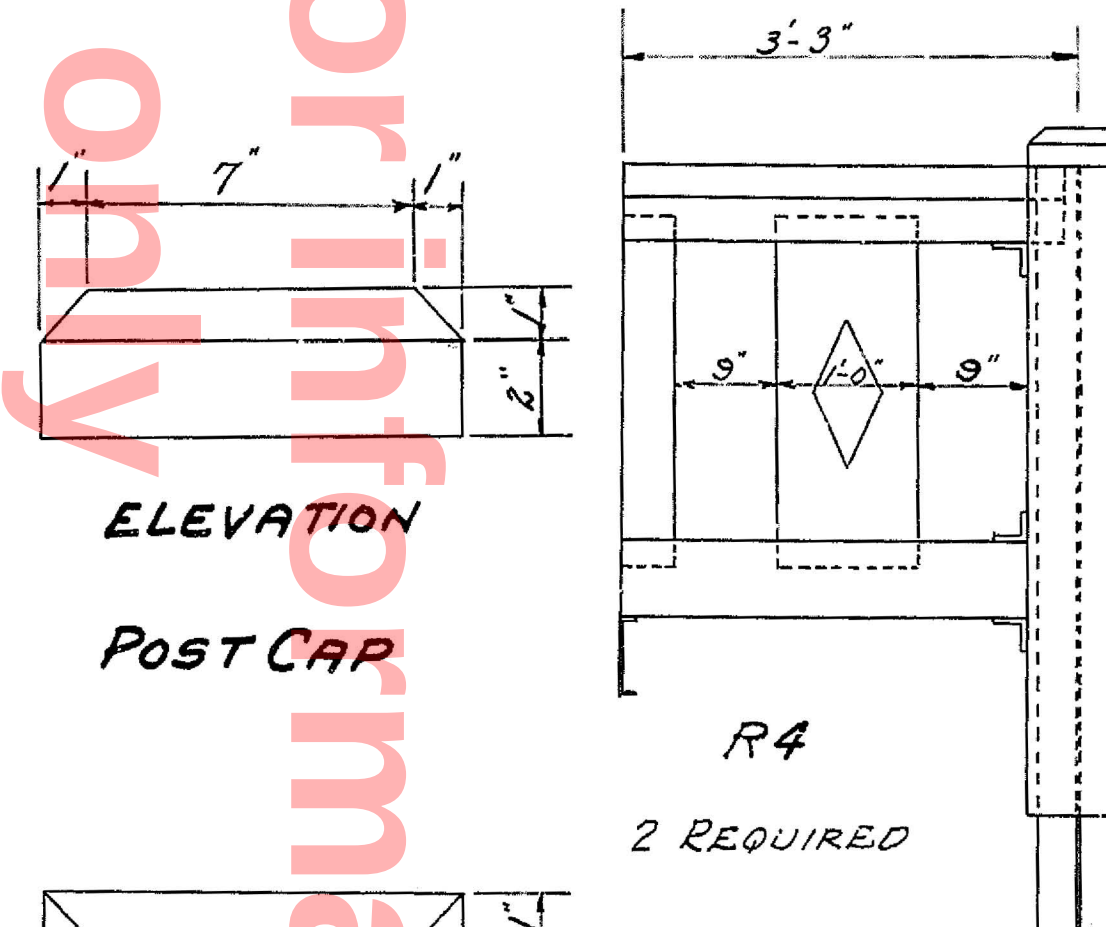
R1
14 REQUIRED
10 REQUIRED AS SHOWN
2 REQUIRED 11'-9" LONG
2 REQUIRED 12'-2 1/2" LONG



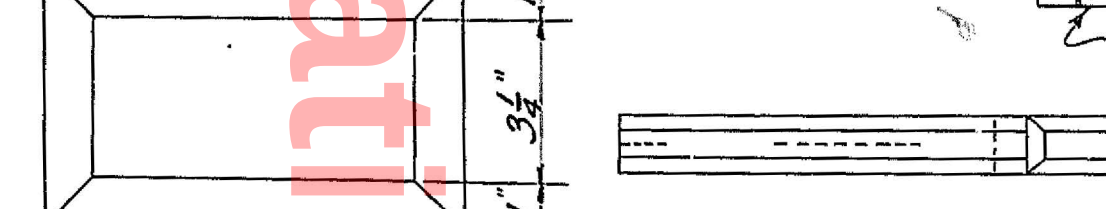
R2
4 REQUIRED
2 REQUIRED AS SHOWN
2 REQUIRED 6'-1 1/2" LONG



R3
2 REQUIRED

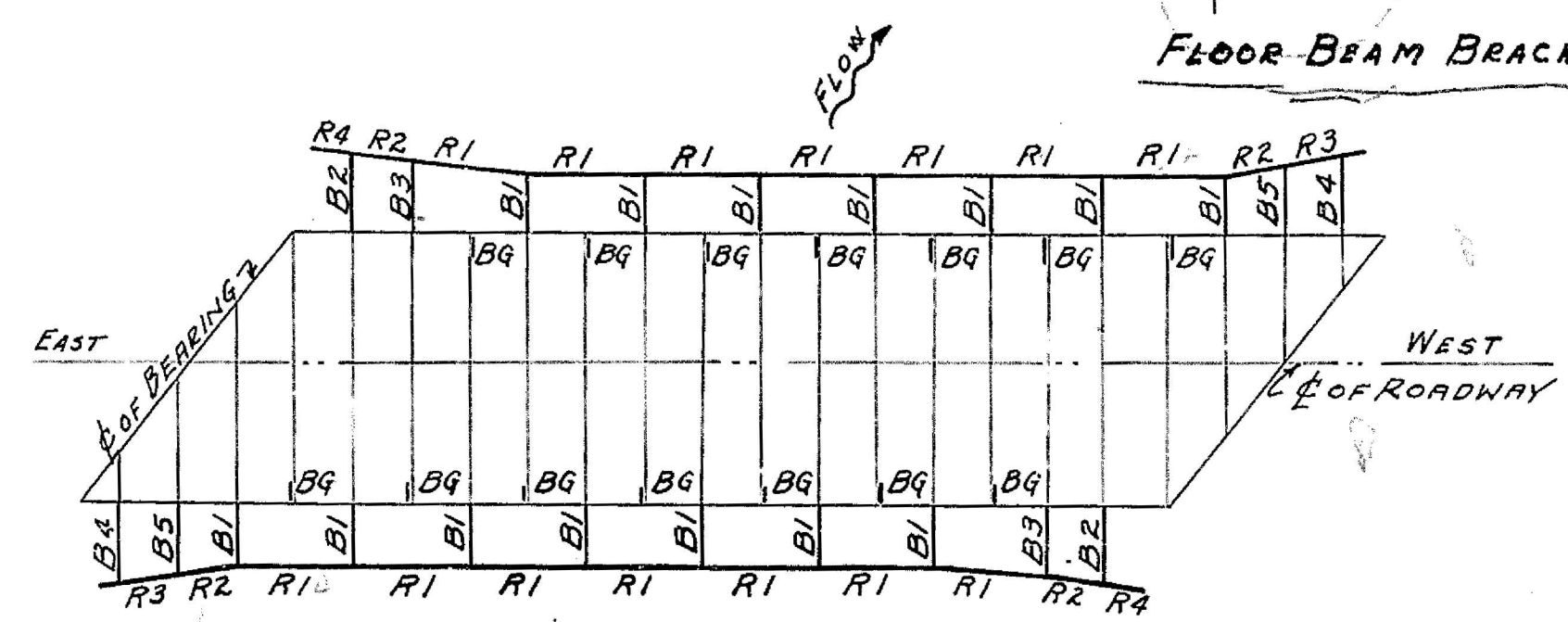


R4
2 REQUIRED



ELEVATION
POST CAP

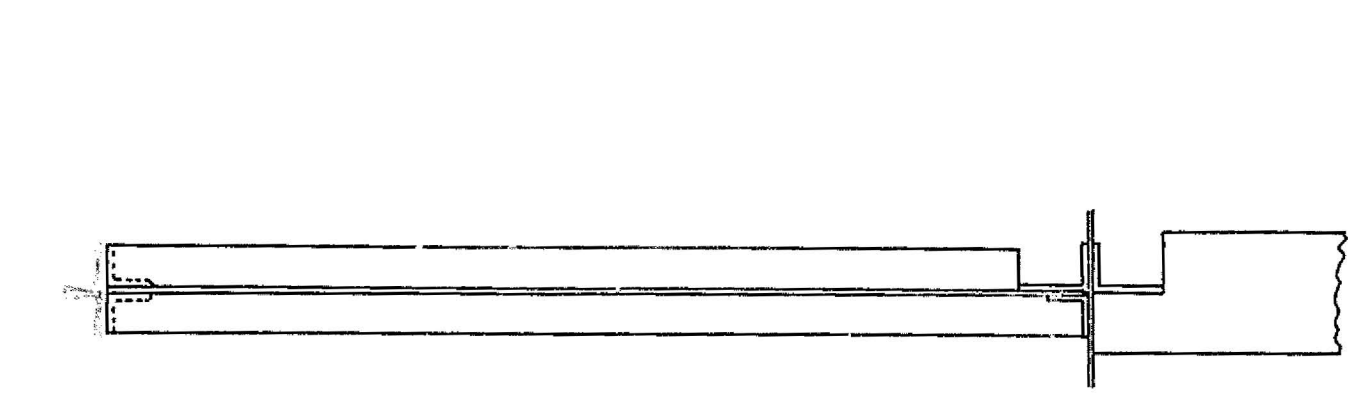
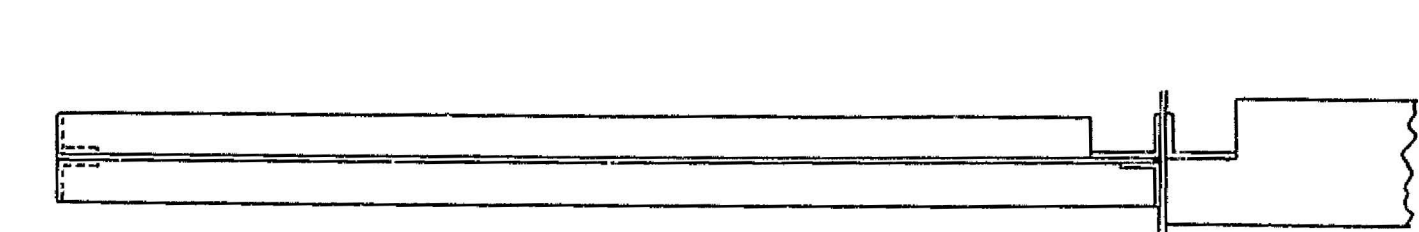
PLAN



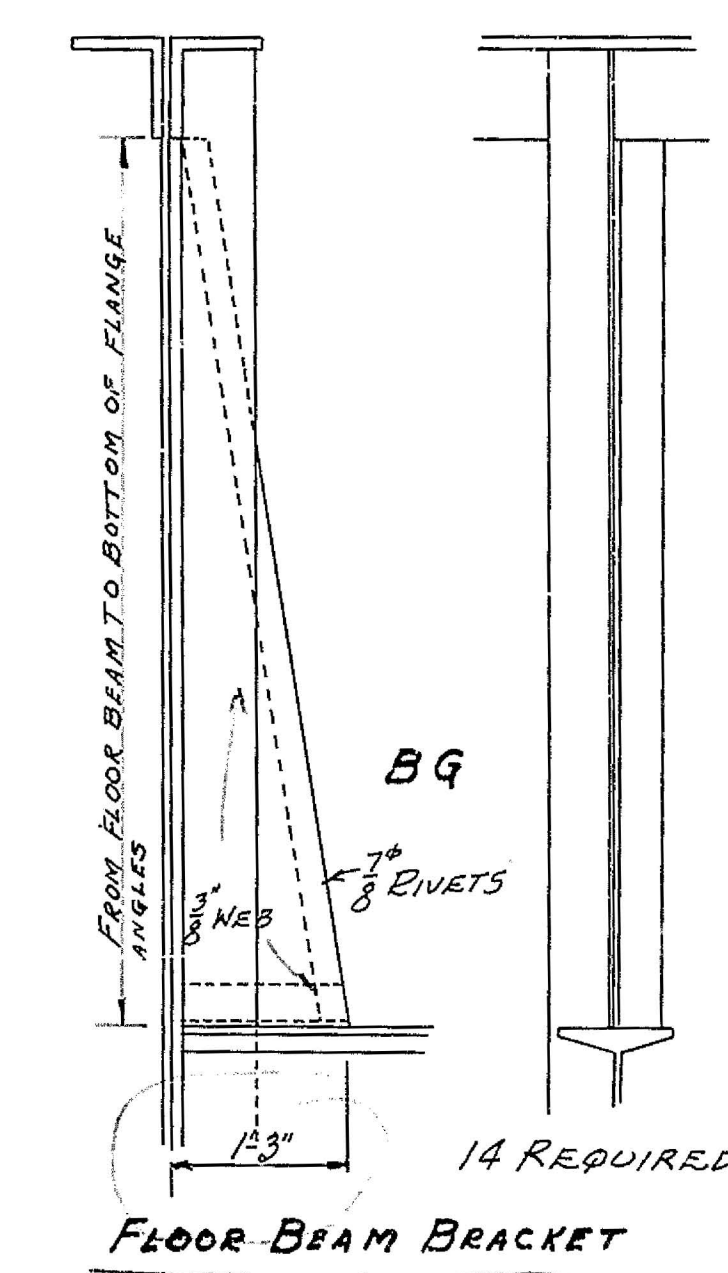
RAILING - BRACKETS - LAYOUT
4-1-1931
C/O GIRDER TO OUTSIDE EDGE OF SIDEWALK BRACKET

- B1 6'-0"
 - B2 7'-5 1/2"
 - B3 6'-11 1/2"
 - B4 7'-6"
 - B5 6'-9"
- NO POST ATTACHED

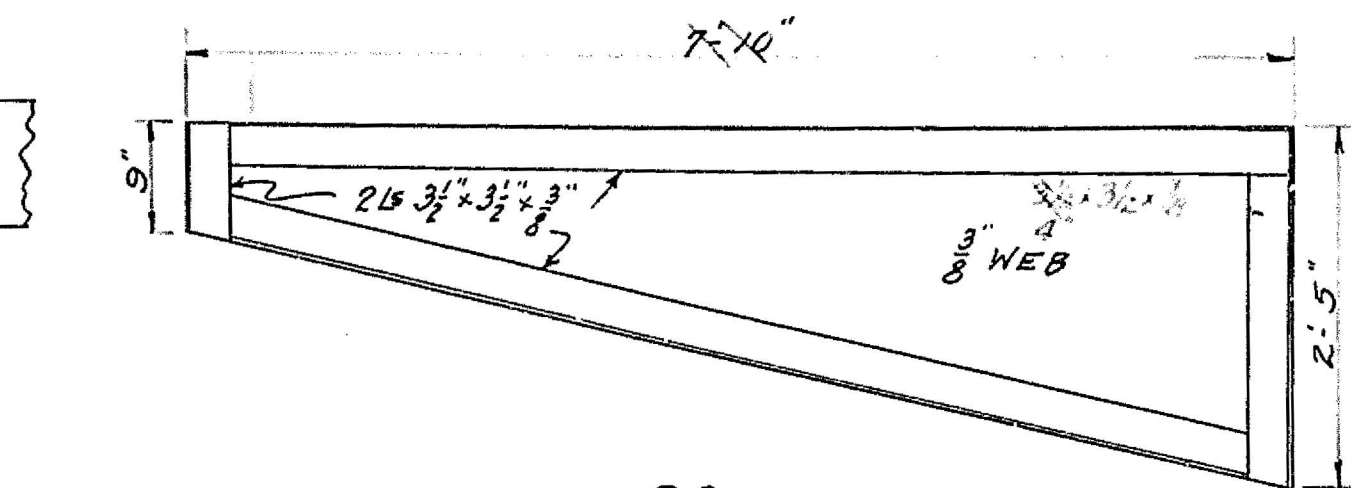
COMPLETED RAILING JUNE 5, 1931



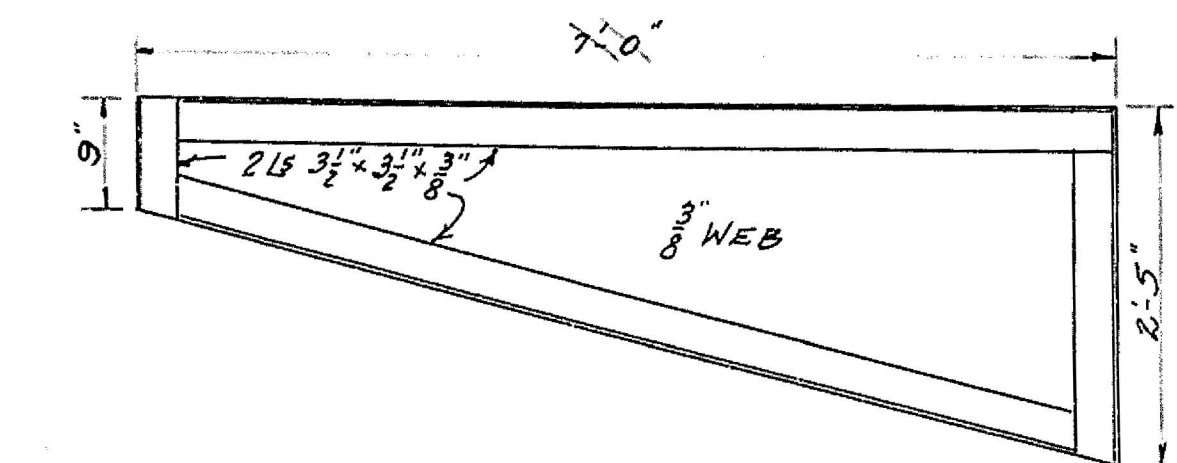
SEE B1 ON DETAILS SHEET 3
14 REQUIRED



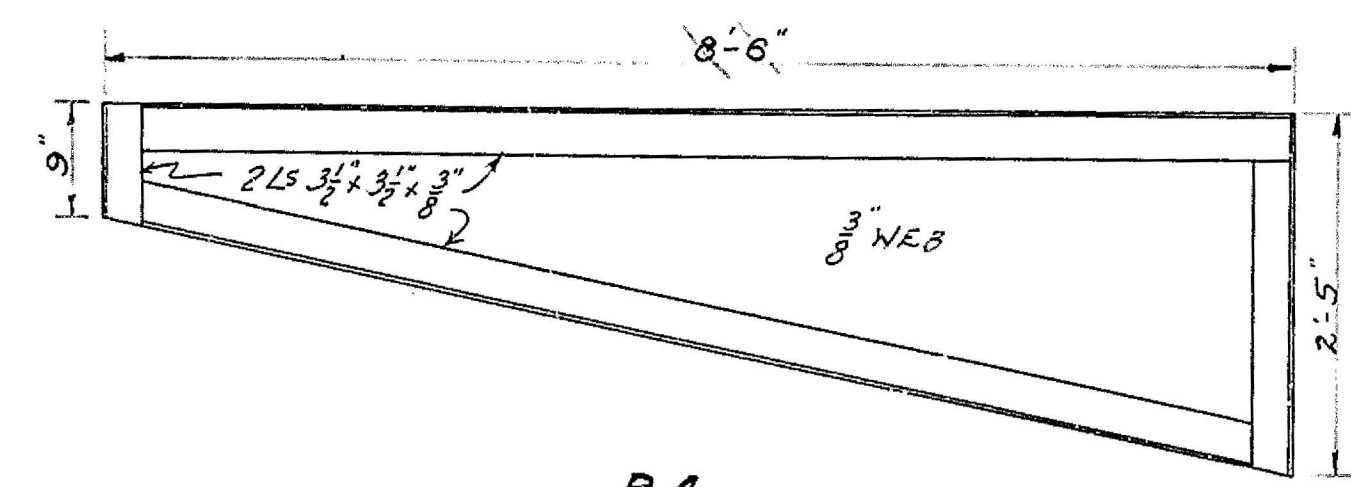
FLOOR BEAM BRACKET



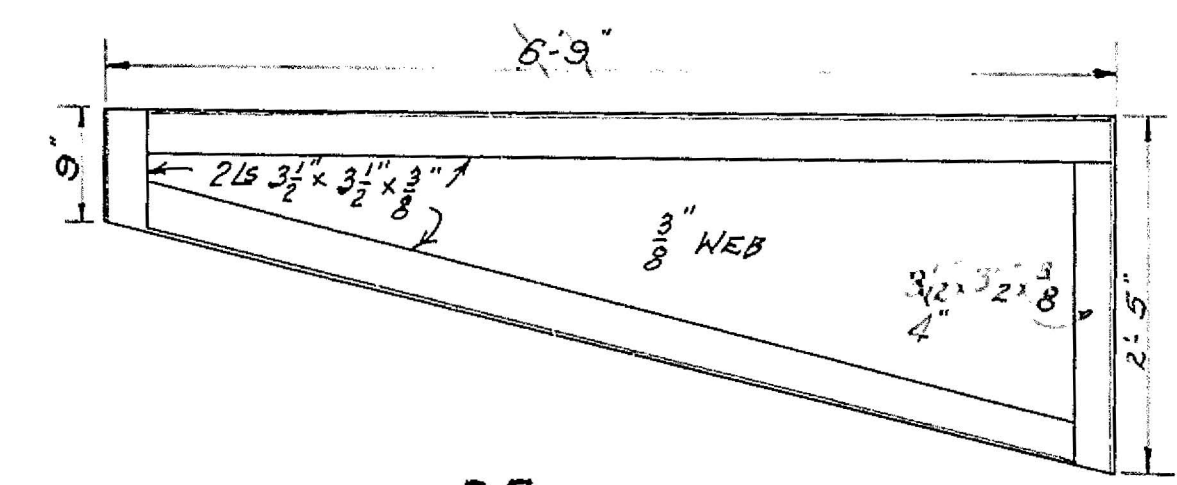
B2
2 REQUIRED



B3
2 REQUIRED



B4
2 REQUIRED



B5
2 REQUIRED
SIDEWALK BRACKETS

- NOTES -

SEE SHEET ENTITLED 'GENERAL PLAN' FOR ELEVATIONS AND PLAN OF THIS STRUCTURE.
THE SPECIFICATIONS ARE THOSE OF A.A.S.H.O. AUGUST 1, 1928, STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES AND INCIDENTAL STRUCTURES.
RIVETS SHALL BE 3/4" FOR SIDEWALK BRACKETS.
RIVETS SHALL BE 7/8" FOR FLOOR BEAMS AND FLOOR BEAM BRACKETS, SUBPUNCHED AND REAMED TO SIZE.

THE RAILING OF THIS STRUCTURE IS GENERALLY SIMILAR TO THE RAILING ON THE NEWPORT BRIDGE. WORKING DRAWINGS SHOULD SHOW ALL DETAILS.
CONCRETE RAILING USED ON ABUTMENTS

HIGHWAY DEPARTMENT
DELAWARE
CONTRACT 144
STEEL GIRDER BRIDGE
RED CLAY CREEK

SCALE 3/4" = 1'-0"
FEDERAL AID PROJECT No 65A
SEPTEMBER-1930

APPROVED *A. Livingston*
BRIDGE ENGINEER
APPROVED *[Signature]*
CHIEF ENGINEER

RAILINGS - BRACKETS
SHEET 4

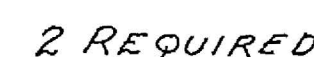
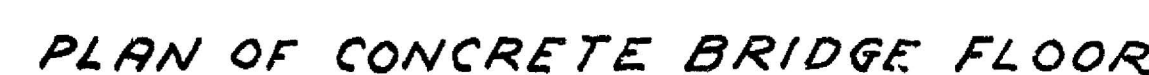
D-LMG
T-LMG
C-R-T
9-6-1930

15.737*

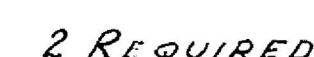
-NOTES-

FLOOR POURED JUNE 10 TO 13, 1931

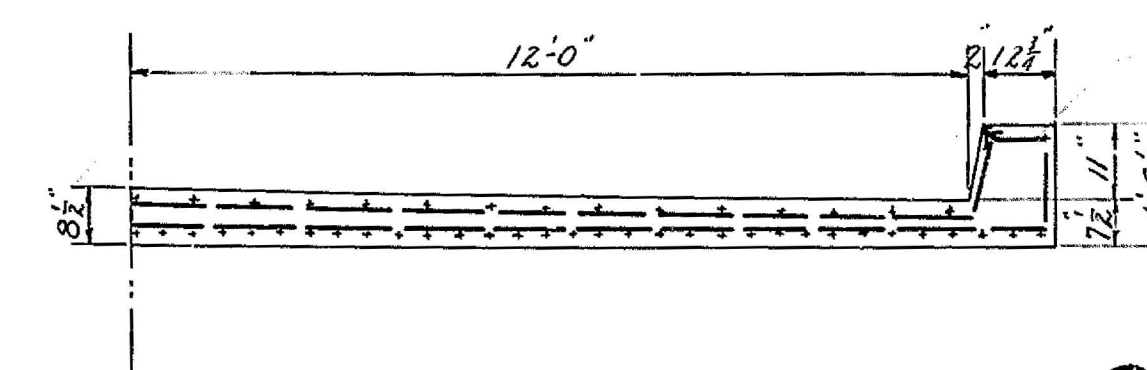
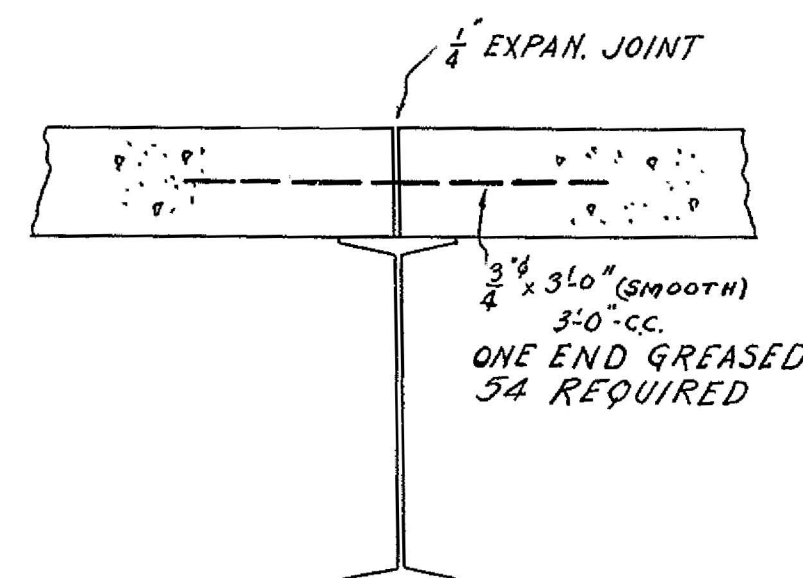
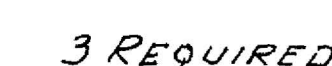
SCALE $\frac{3}{8} = 1'-0"$
FEDERAL AID PROJECT No 65A
SEPTEMBER 1930



NOTE BREAK IN BARS
SHOWN IN PLAN



LONGITUDINAL SECTIONS



10N5

APPROVED *A. H. Livingston* BRIDGE ENGINEER

APPROVED *[Signature]* CHIEF ENGINEER

APPROVED [Signature] CHIEF ENGINEER ROADWAY SHEET 4

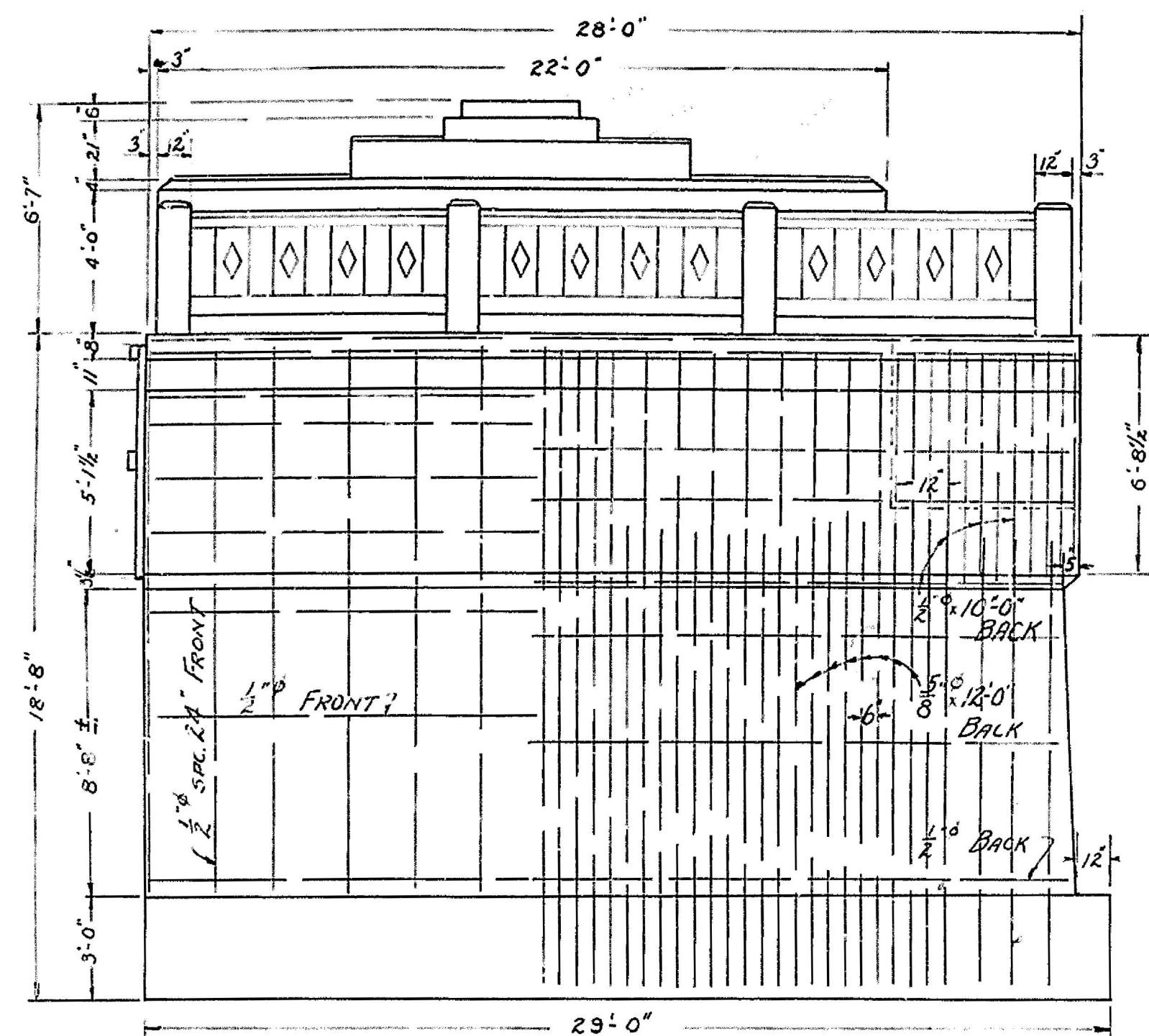
D-J.M.G.
T-J.M.G.
C-RT
10/6-1930

FINISHED BALUSTRADE JULY 6, 1931 FINISHED PEDESTALS JUNE 24, 1931

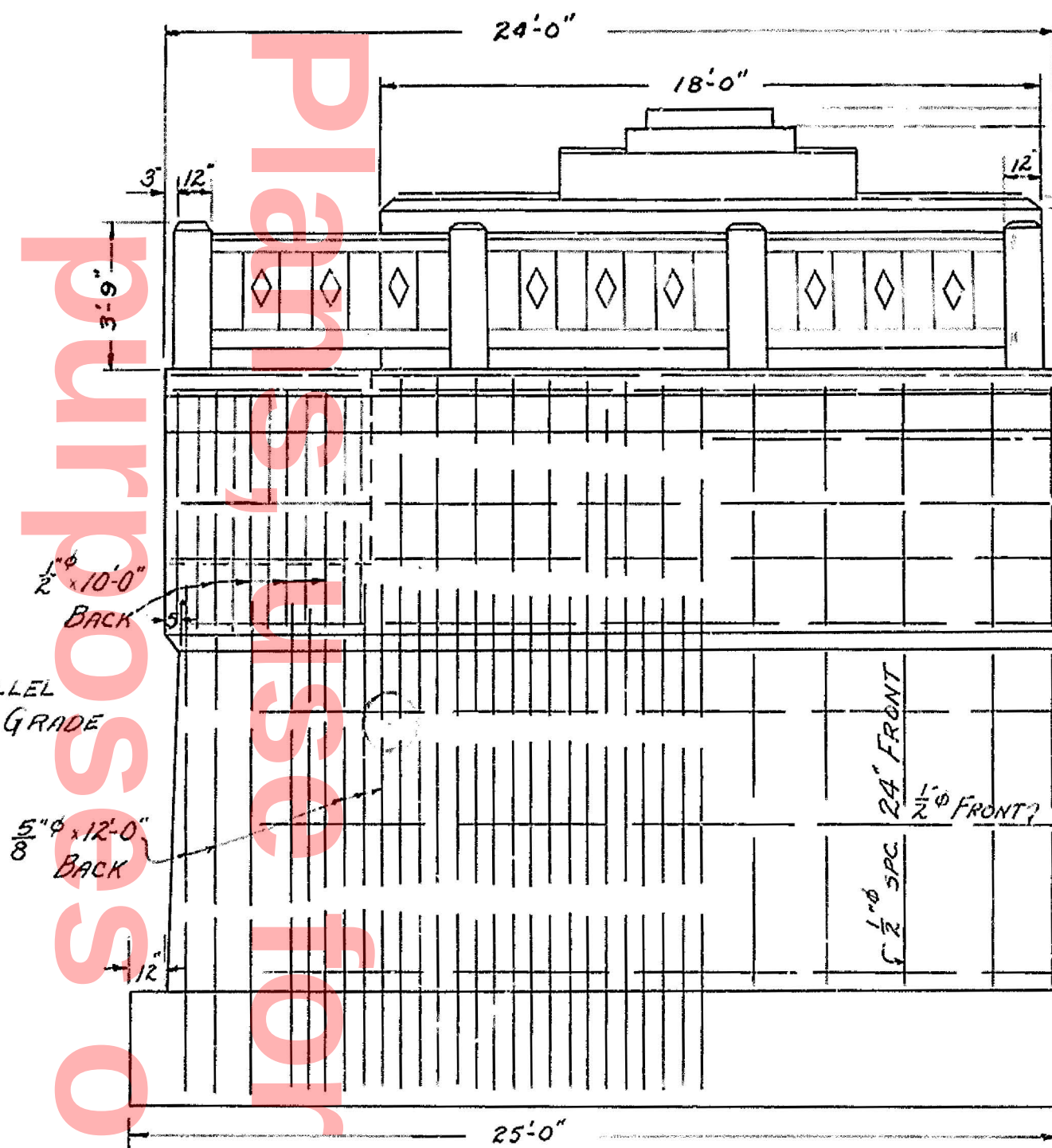
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	COUNTY	CONTRACT	SHEET
10	DEL.	65	1932	7	9	NEWCASTLE	144	

MARSHALLTON BRIDGE 153

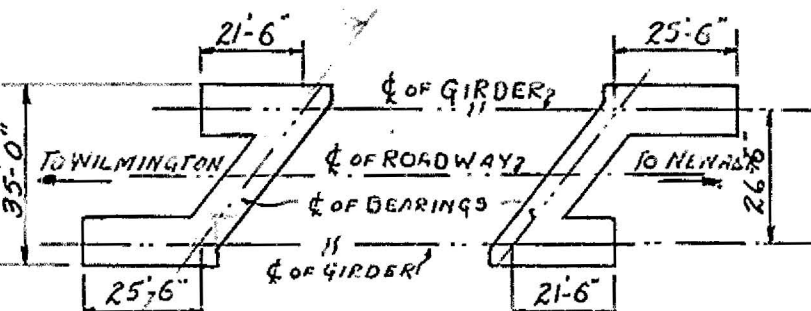
LAMP POSTS NOT SHOWN



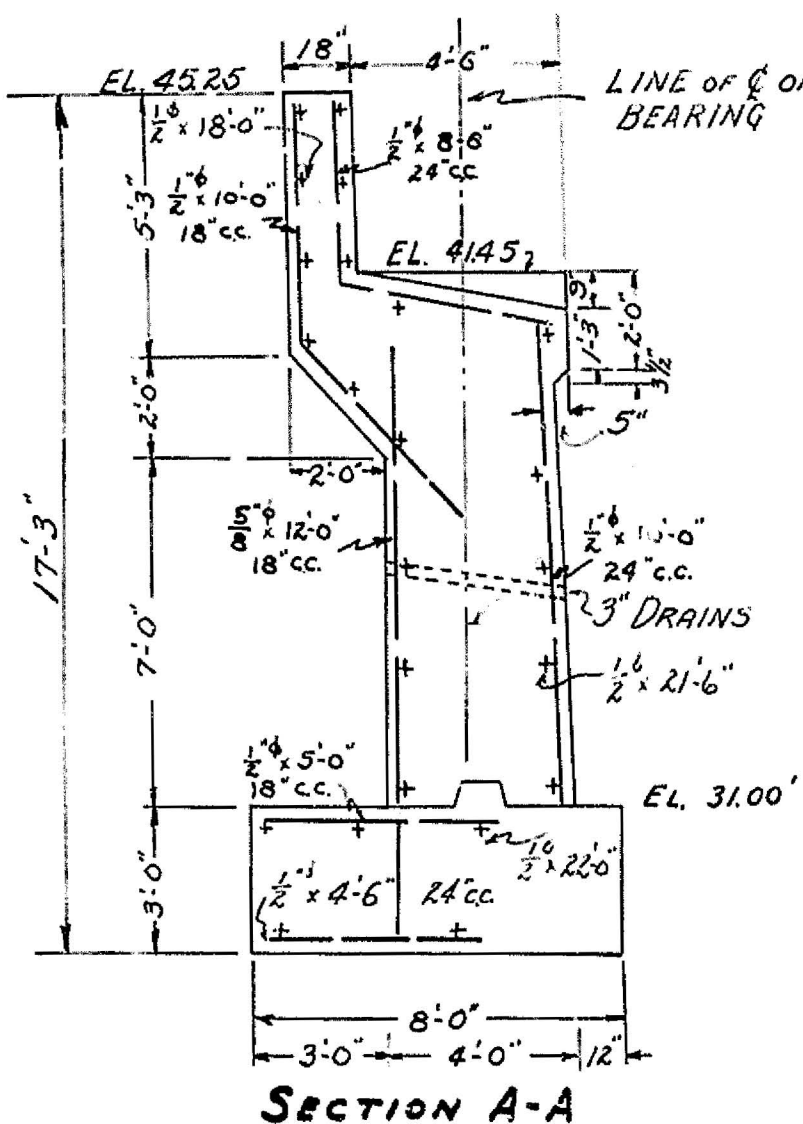
SIDE ELEVATION



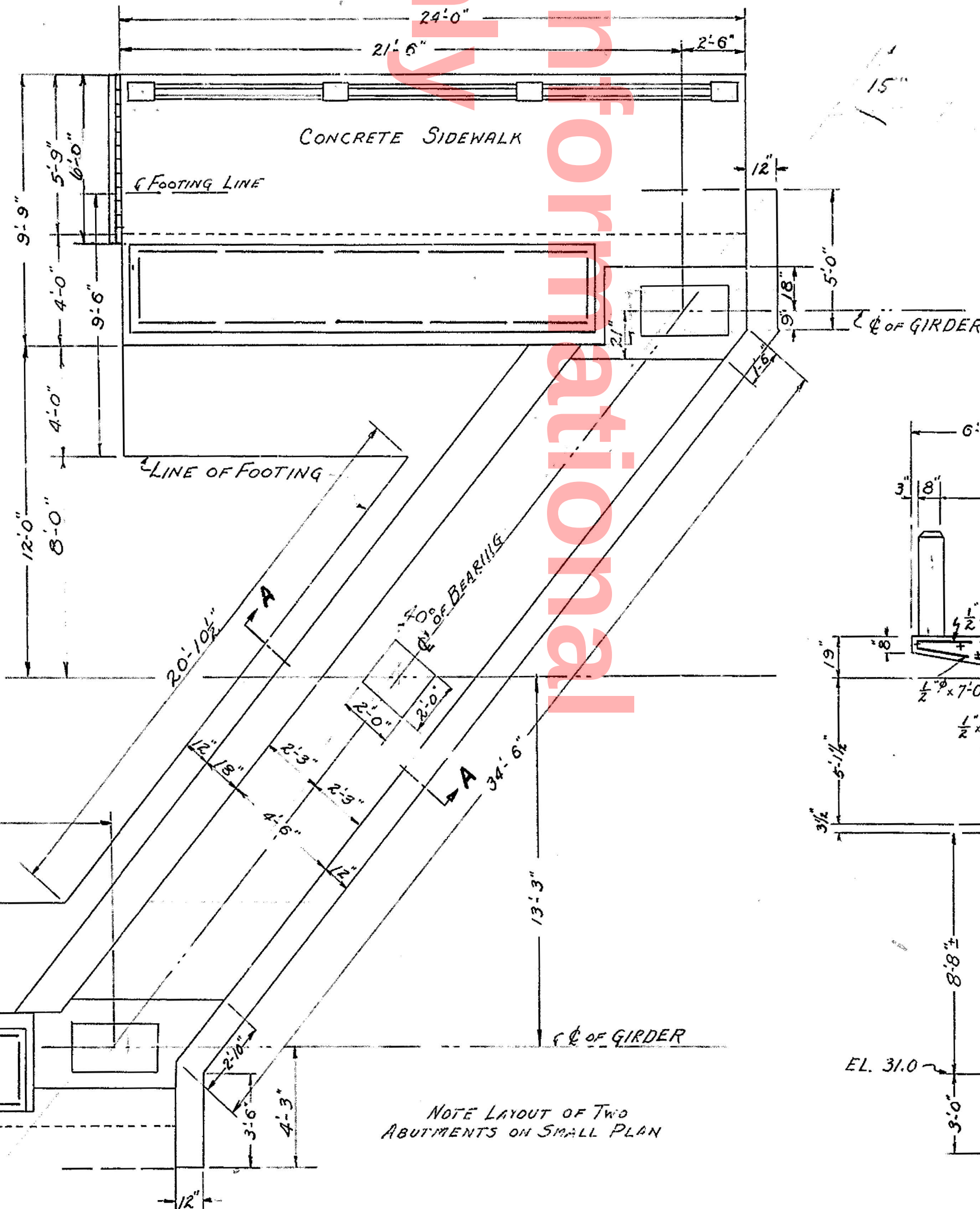
TIMBER BULKHEAD
2" x 6" x 6" 6"



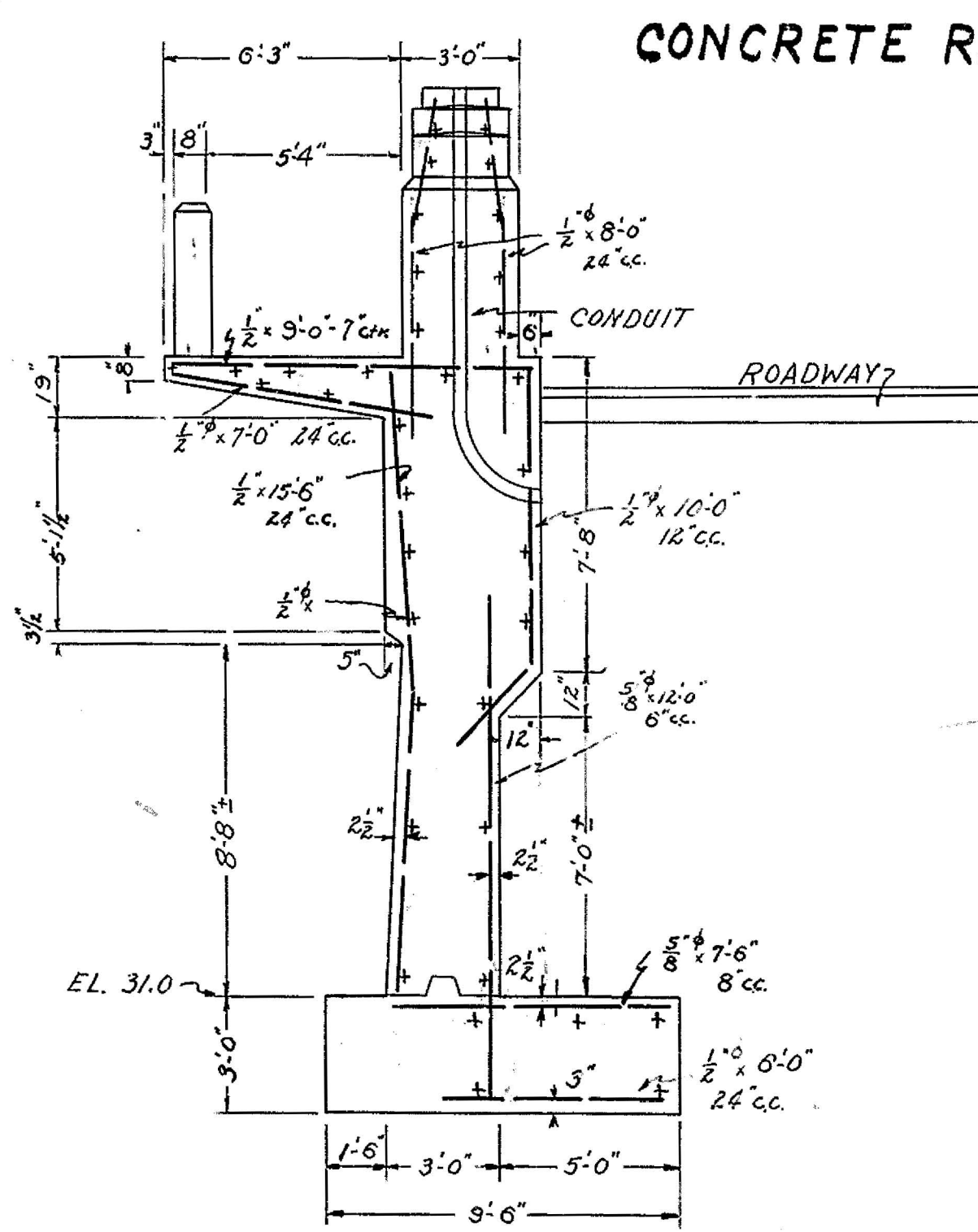
ABUTMENT FOOTING
SCALE 1" = 40'-0"



SECTION A-A



PLAN



SECTION B-B

CONCRETE RAILING

STREAM ELEVATION
1 TO 2

- NOTES -

SEE GENERAL PLAN "No. 1" FOR EAST AND WEST ABUTMENT OF STEEL GIRDER BRIDGE.

CONCRETE MASONRY IS DESCRIBED IN THE SPECIFICATIONS UNDER ITEM 19, 20, AND 21, PAGES 50-55. USE CLASS "A" A 1:2:4 MIXTURE.

STEEL REINFORCEMENT SHALL BE ROUND DEFORMED BARS OR AN EQUIVALENT AREA IN CROSS SECTION. SEE PAGES 57 AND 58.

PROVISION IS MADE IN THE SPECIFICATION FOR DEEPENING THE FOUNDATIONS BELOW THE DEPTH SHOWN ON PLANS; PARAGRAPH 19.44 ON PAGE 55.

SHEETING OF TIMBER MAY BE ORDERED DRIVEN AROUND ABUTMENT TO PREVENT SCOUR.

MASONRY PLASTER AND BOLTS, WASHERS AND NUTS WILL BE IMBEDDED IN CONCRETE MASONRY.

SUBSTRUCTURE CONTRACTOR NOT TO PLACE ANY CONCRETE ABOVE SIDEWALK

BILL OF MATERIAL				
NO.	SIZE	LENGTH	LOCATION	WT.
129	5/8"	12'-0"	WALL & ABUT. VERT.	
82	3/8"	7'-6"	WING FTING	
TOTAL 5/8" BARS				22.93
5	1/2"	28'-6"	WING FTING	
17	1/2"	27'-6"	WALL HORIZONTAL	
5	1/2"	24'-6"	WING FTING	
17	1/2"	23'-6"	WALL HORIZONTAL	
5	1/2"	22'-0"	ABUT. FTING	
28	1/2"	21'-6"	ABUT. & WALL HOR.	
12	1/2"	18'-0"	BACK WALL HOR.	
4	1/2"	17'-6"	WALL HORIZONTAL	
28	1/2"	15'-6"	WALL VERTICAL	
83	1/2"	10'-0"	WALL & ABUT. VERT.	
73	1/2"	9'-0"	SIDEWALK	
37	1/2"	8'-6"	S.W. & ABUT. VERT.	
44	1/2"	8'-0"	BALUSTRADE VERT.	
48	1/2"	7'-0"	S.W. & WALL VERT.	
6	1/2"	6'-6"	SIDEWALK	
29	1/2"	6'-0"	WING FTING	
39	1/2"	5'-0"	ABUT. FT. & POST VERT.	
11	1/2"	4'-6"	ABUT. FTING	
TOTAL 1/2" BARS				3756
TOTAL REINFORCEMENT				6049
CONCRETE CEMENT SAND STONE LOCATION				
CLASS A	171 CY.	259.9 BBL.	76.9 CY.	152.2 CY.
	76.5 CY.	116.3 BBL.	34.4 CY.	68.1 CY.
	247.5 CY.	376.2 BBL.	111.3 CY.	220.3 CY.
TOTAL				

THESE QUANTITIES FOR ONE ABUTMENT TO SIDEWALK ELEVATION.

HIGHWAY DEPARTMENT
DELAWARE
CONTRACT 144-144A
STEEL GIRDER BRIDGE
RED CLAY CREEK
2 0 2 4 6 8 10 FT.

SCALE 1/4" = 1'-0"
FEDERAL AID PROJECT No. 65A&B
SEPTEMBER 1930

APPROVED A. G. Livingston
BRIDGE ENGINEER

APPROVED [Signature]
CHIEF ENGINEER

SHEET No. 6 ABUTMENTS

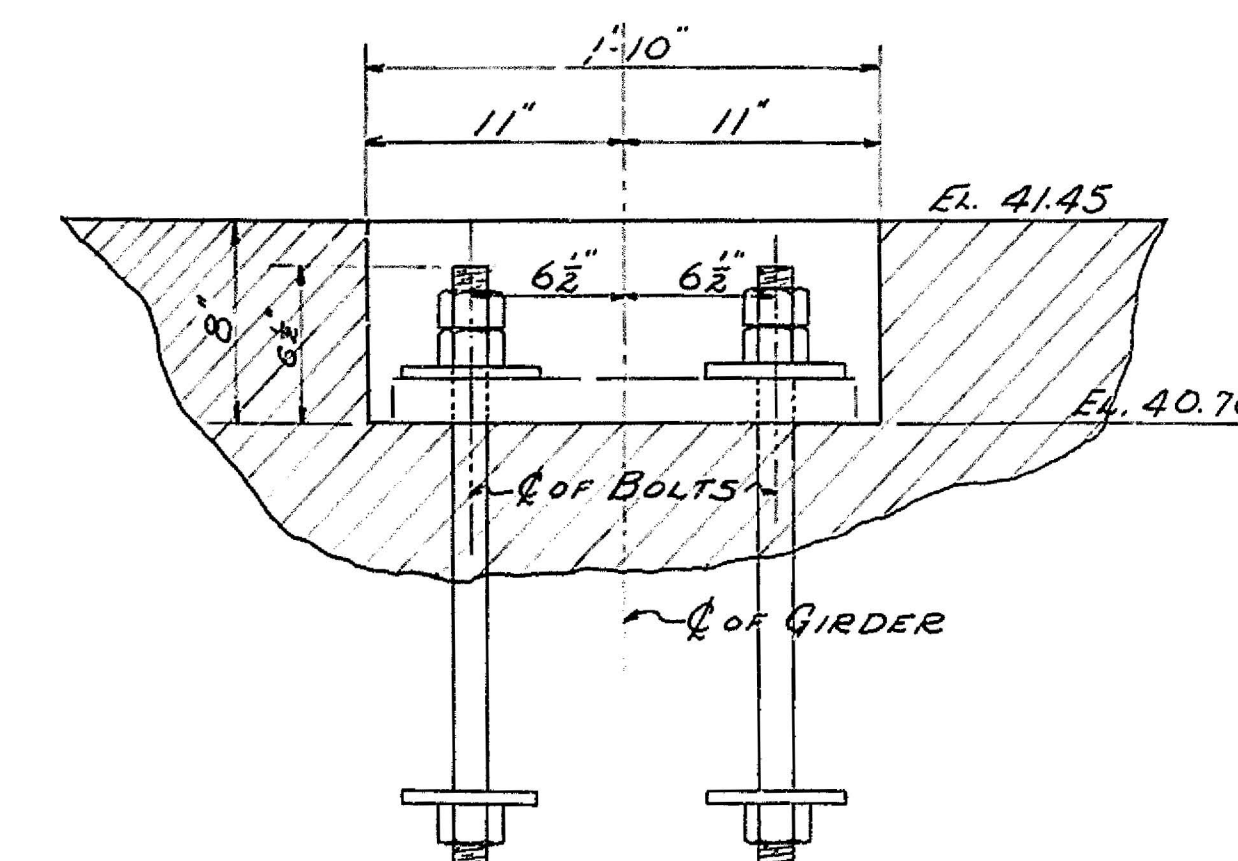
D. A. G. L.
T. J. M. G.
C. P. I.
10/13/1930

J. M. WEIL & CO., PHILA. 300-130

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	COUNTY	CONTRACT	SHEET
10	DEL.	65	1932			NEW CASTLE	144	

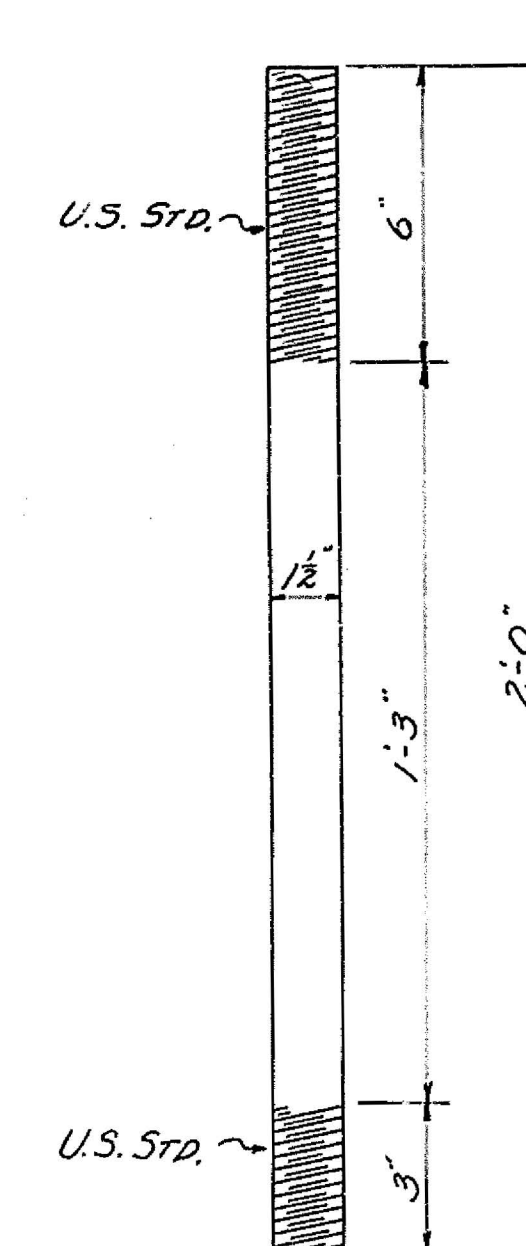
MARSHALLTON BRIDGE 155

ANCHOR BOLTS - EAST ABUTMENT

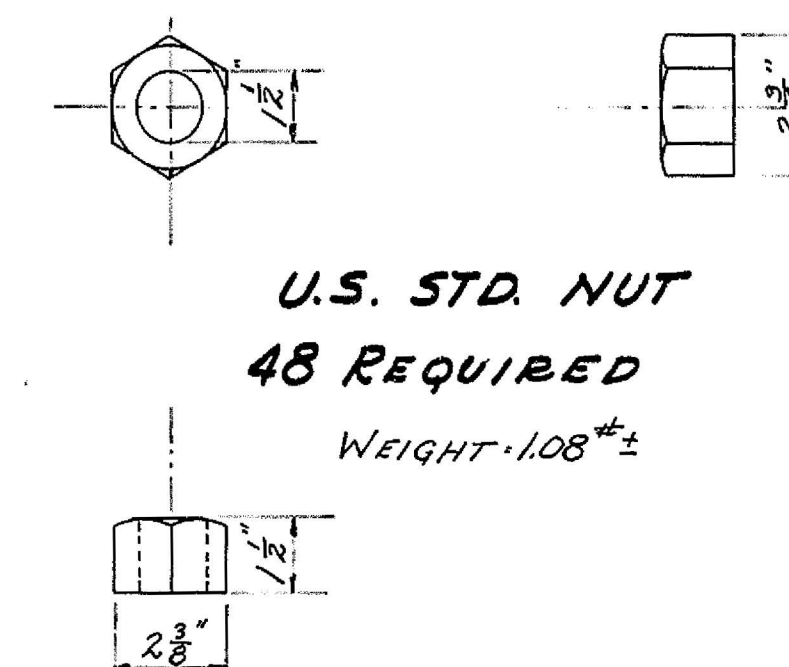


SECTION A-A

WASHER
32 REQUIRED
WEIGHT = 3.6# ±



BOLT
16 REQUIRED
WEIGHT = 12.02# ±



U.S. STD. NUT
48 REQUIRED
WEIGHT = 1.08# ±

ANCHOR BOLT DETAIL
SCALE 3" = 1'-0"

~NOTES~

THIS SHEET FOR MARSHALLTON BRIDGE OVER RED CLAY CREEK, CONTRACT 144-A IS MADE IN CONNECTION WITH DETAILS (SHEET 3) AND ABUTMENTS (SHEET 6) OF CONTRACT 144.

THE LOCATION FOR THE BOLT HOLES OF THE 1/2" BOLTS IS SHOWN. AROUND IT A 4" DIAMETER HOLE IS PROVIDED TO ALLOW FOR FINAL ADJUSTMENT. TAP BOLTS GENTLY AS CONCRETE IS SETTING UP TO KEEP WASHERS FREE FROM CONTACT WITH CONCRETE. THE HOLES WILL FINALLY BE FILLED WITH A 1-3 GROUT WELL TAMPED IN.

THE REQUIREMENTS FOR ALL BOLTS AND NUTS SHALL BE THE SAME AS FOR STRUCTURAL STEEL. THE MATERIALS REQUIRED ARE FOR BOTH ABUTMENTS; A SKETCH WILL BE SUPPLIED FOR THE WEST ABUTMENT.

HIGHWAY DEPARTMENT
DELAWARE
CONTRACT 144
STEEL GIRDER BRIDGE
RED CLAY CREEK

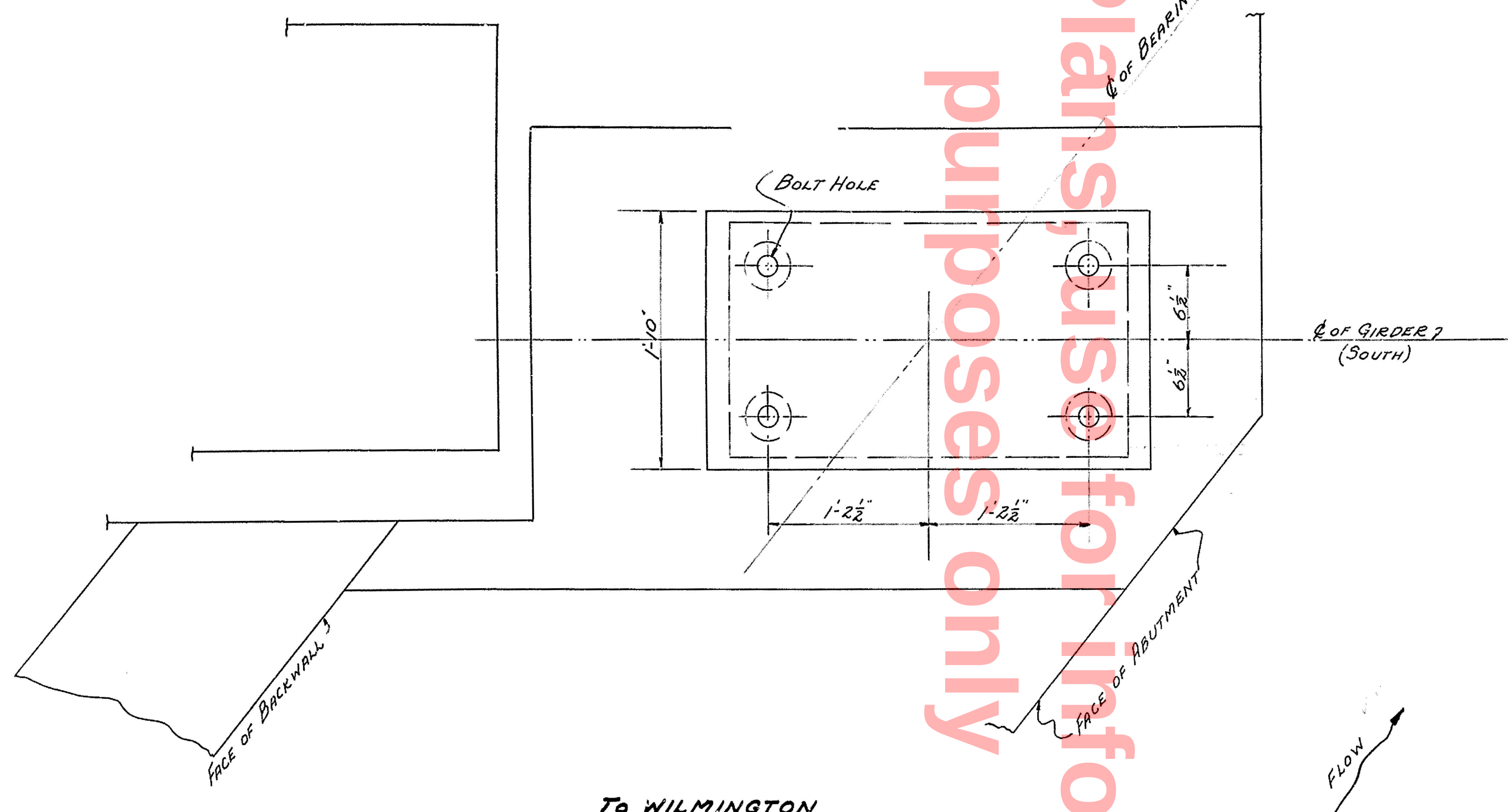
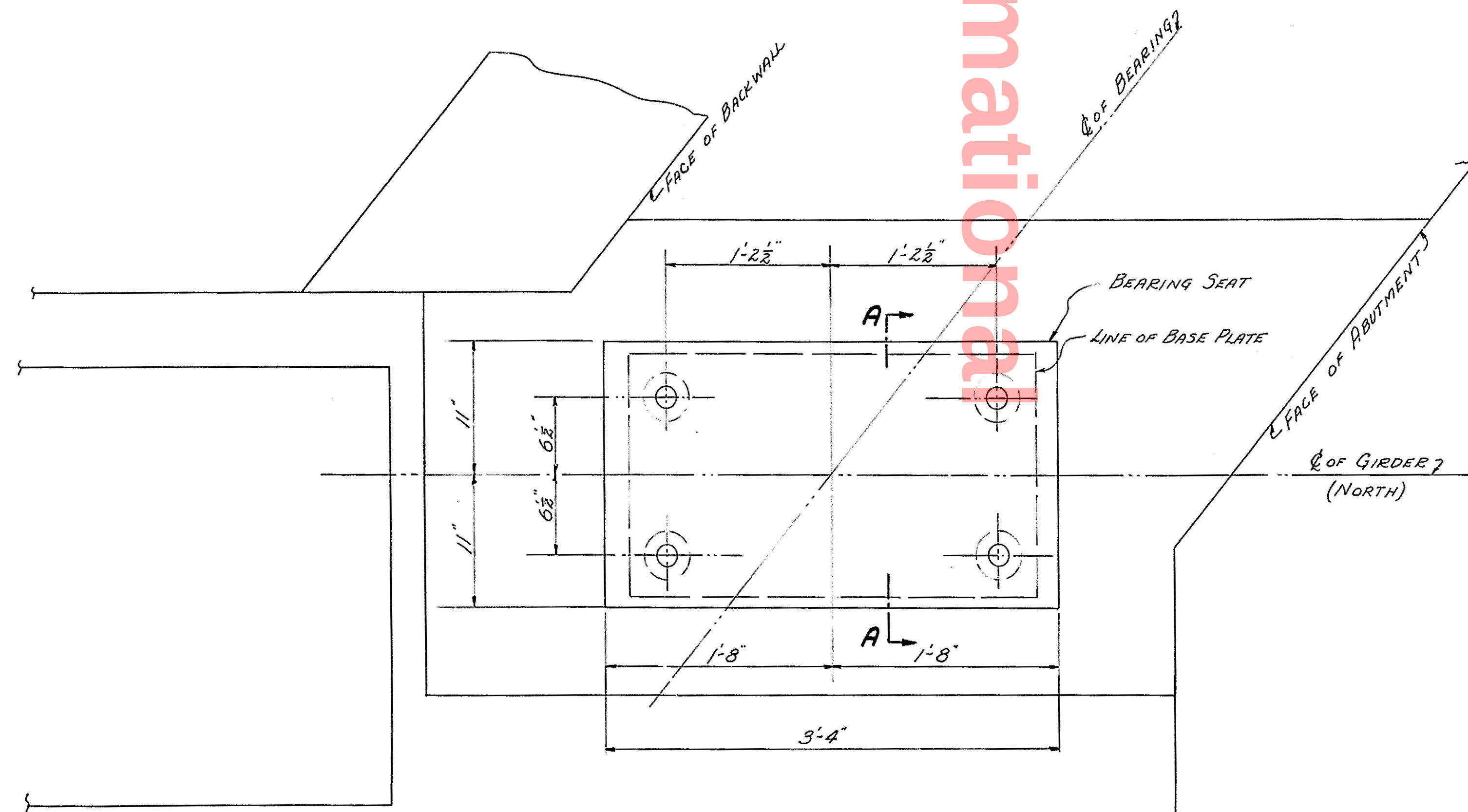
SCALE 1 1/2" = 1'-0"

FEDERAL AID PROJECT No. 65
JANUARY - 1931

SHEET 7 - ANCHOR BOLTS
EAST ABUTMENT

APPROVED *A. G. Livingston*
BRIDGE ENGINEER
APPROVED *W. W. W.*
CHIEF ENGINEER

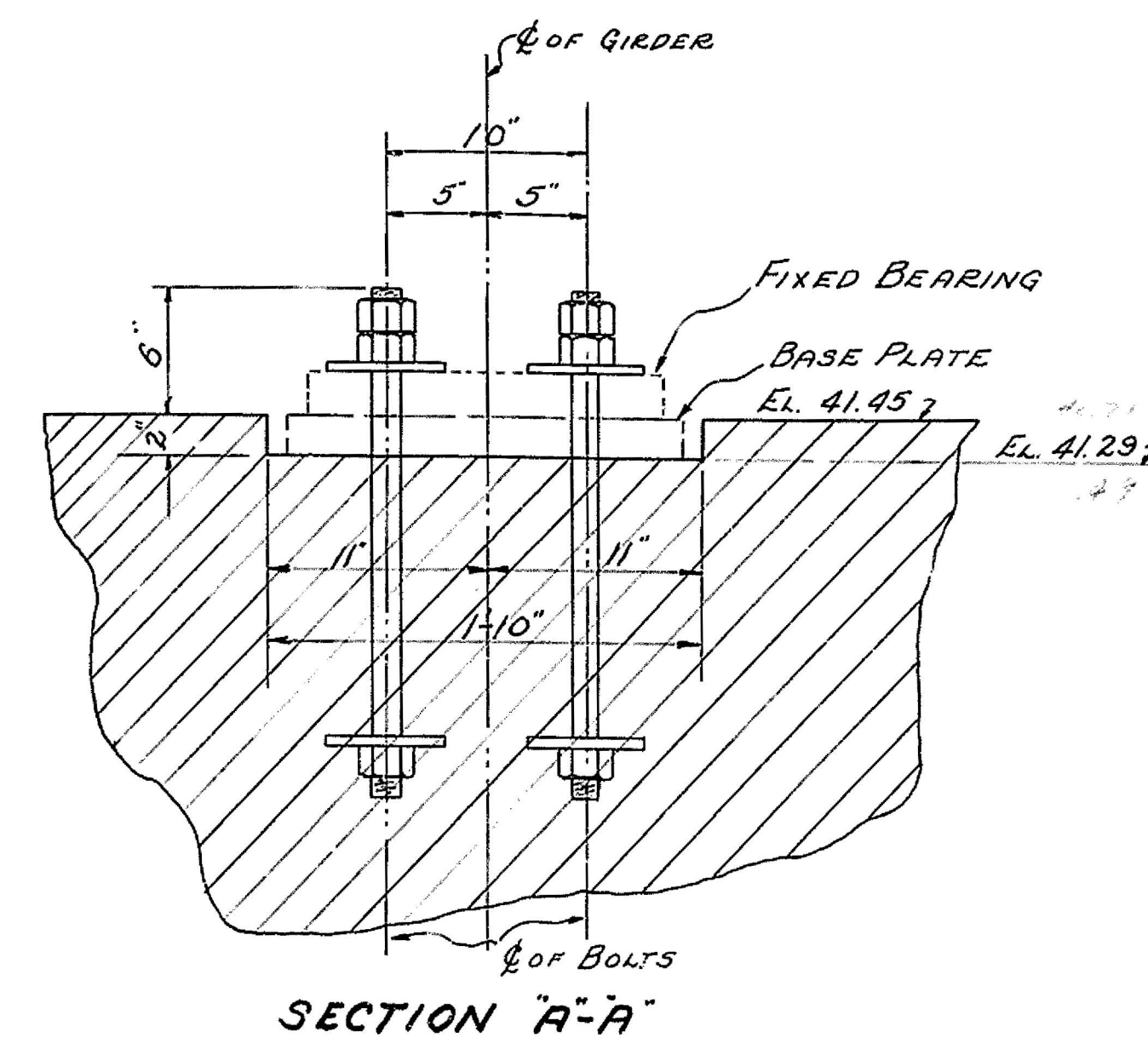
PLAN OF EAST ABUTMENT
SCALE 1 1/2" = 1'-0"



D. J. M.G.
T. J. M.G.
C. A. G. L.
1-29-31

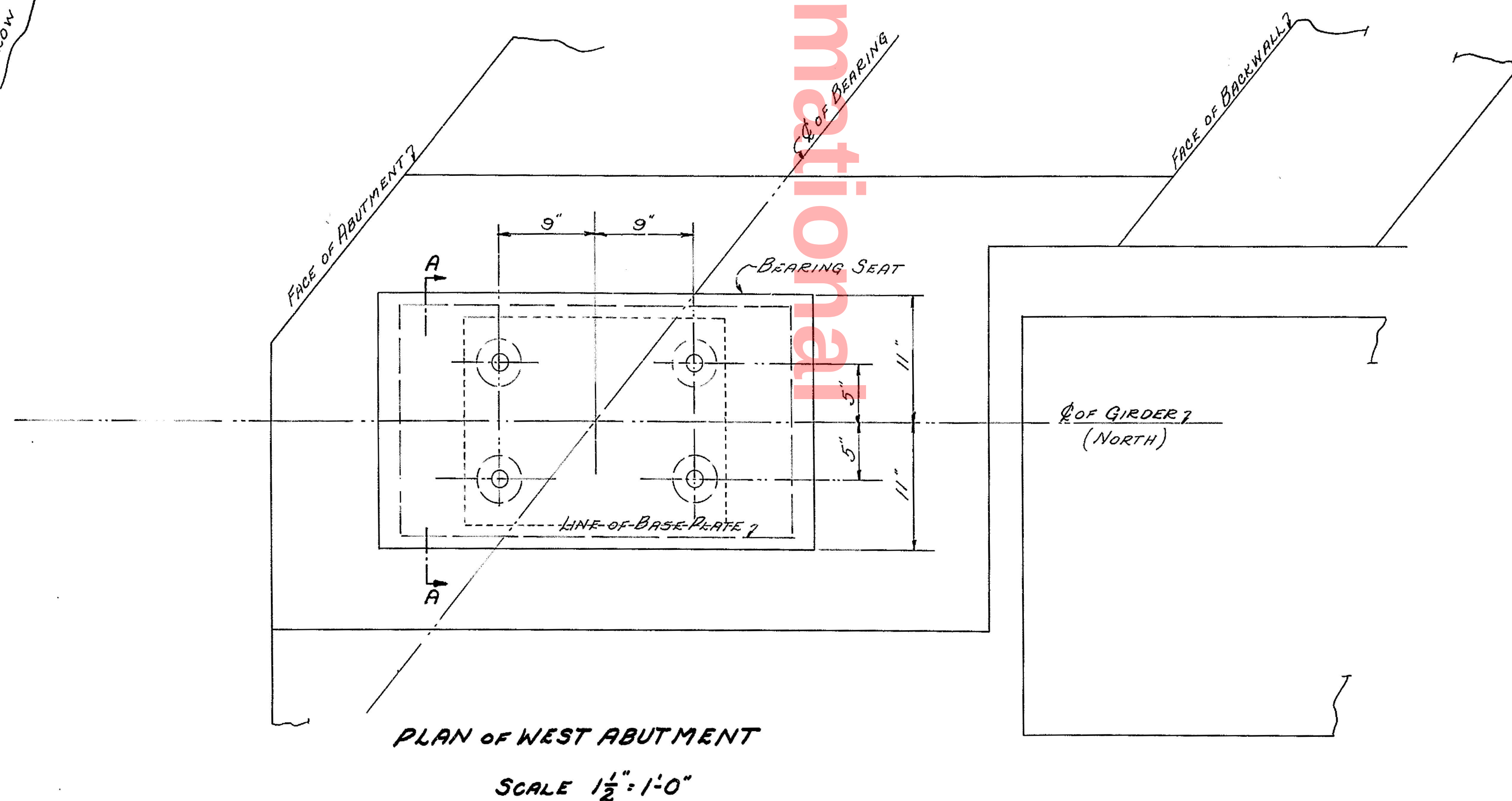
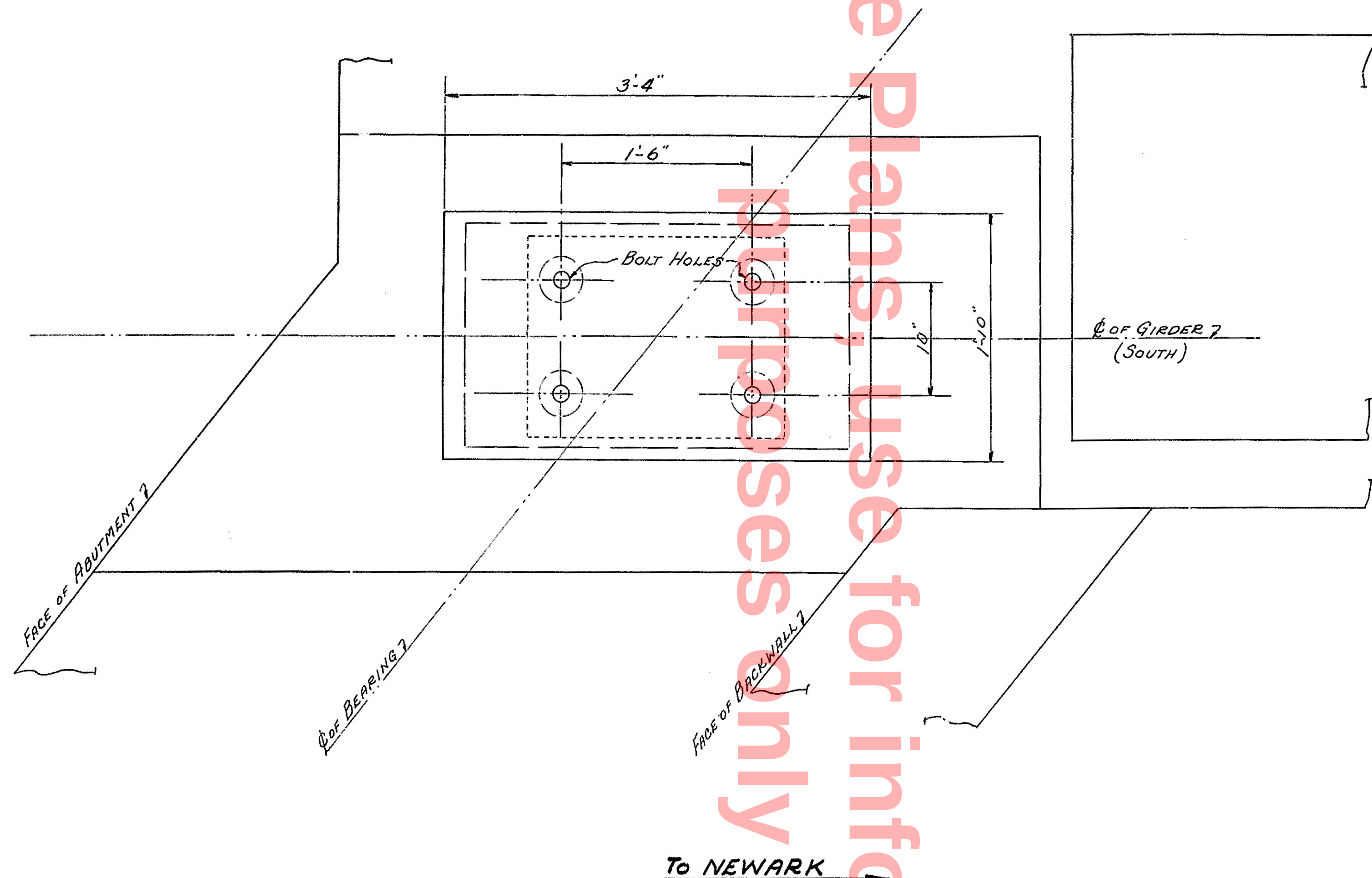
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	COUNTY	CONTRACT	SHEET
10	DEL.	65	1932			NEW CASTLE	144	

MARSHALLTON BRIDGE 155
ANCHOR BOLTS ~ WEST ABUTMENT



~ NOTES ~

ANCHOR BOLT DETAILS, BILL OF MATERIAL AND NOTES ON SHEET 7 APPLY TO THIS SHEET.



D-J.M.G.
T-C.M.G.
C-A.G.L.
2-6-1931

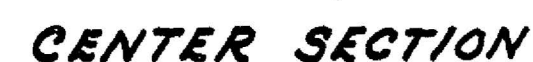
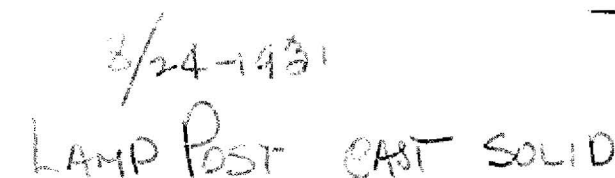
APPROVED *A. Livingston*
BRIDGE ENGINEER
APPROVED *D. Walsh*
CHIEF ENGINEER

SHEET 8 ~ ANCHOR BOLTS
WEST ABUTMENT

HIGHWAY DEPARTMENT
DELAWARE
CONTRACT 144
STEEL GIRDER BRIDGE
RED CLAY CREEK
SCALE 1 1/2" = 1'-0"
FEDERAL AID PROJECT No. 65
FEBRUARY-1931



END POSTS MAY BE POURED SOLID
PAYMENT 42.9 CY. CLASS "A" CONCRETE



FINIAL DETAILS
SCALE 3"=1'-0"

~NOTES~

AN ELEVATION OF THE COMPLETED BRIDGE IS SHOWN ON SHEET 1 GENERAL PLAN AND THE ABUTMENTS ARE SHOWN ON SHEET 6. THIS SHEET GIVES THE DETAILS OF END POSTS AND LAMP POSTS WITH ALL DIMENSIONS AND FITTINGS.

AN ALLOWANCE OF SIXTY (60) DOLLARS FOR FITTINGS ON EACH LAMP POST IS IN THE ITEM COST OF EACH LAMP POST (ITEM 51A). ANY AMOUNT GREATER THAN THIS FOR THE ACTUAL COST OF FITTINGS WILL BE PAID FOR BY THE STATE HIGHWAY DEPARTMENT. ELECTRIC WIRING WILL ALSO BE PAID FOR BY THE STATE HIGHWAY DEPARTMENT. FITTINGS ARE BRACKETS, LUMINAIRES, ELECTRIC WIRING, PIPES AND FINALS.

ALL MATERIALS MUST CONFORM TO THE SPECIFICATIONS.

FOR END POSTS ONLY

PLAN



LAMP POSTS
4 REQUIRED

Low Rent Assoc.
Eng. Bldg.

END POSTS
4 REQUIRED

D- J.M.G.
F- J.M.G.
C- W.M.L.
3-5-1931

APPROVED A. J. Livingston
BRIDGE ENGINEER

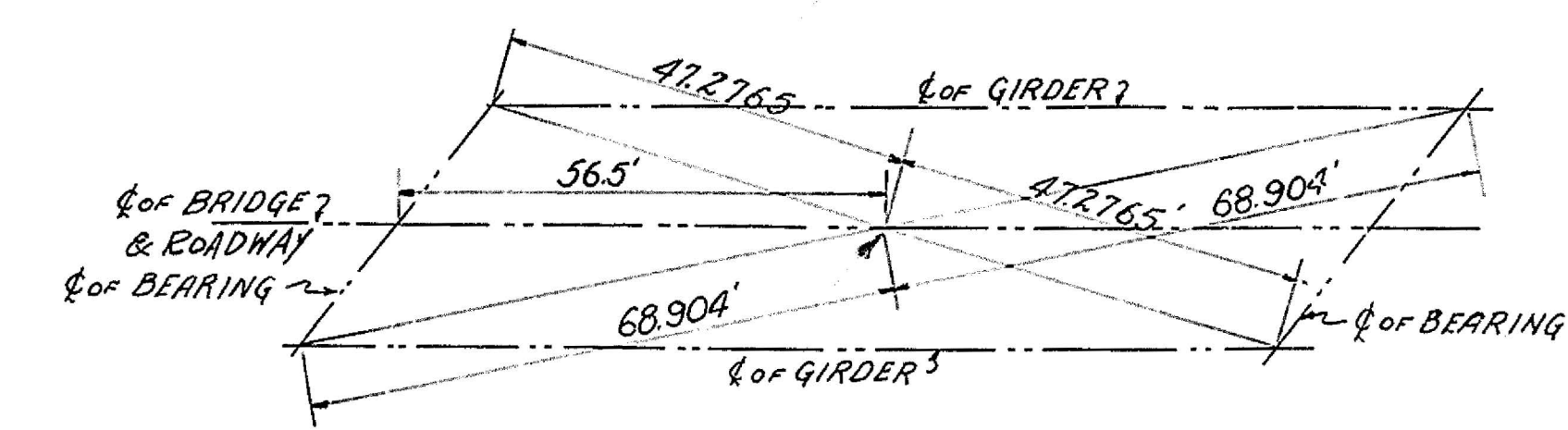
APPROVED W. W. Hall
CHIEF ENGINEER

END POSTS- LAMP POSTS
SHEET - 9

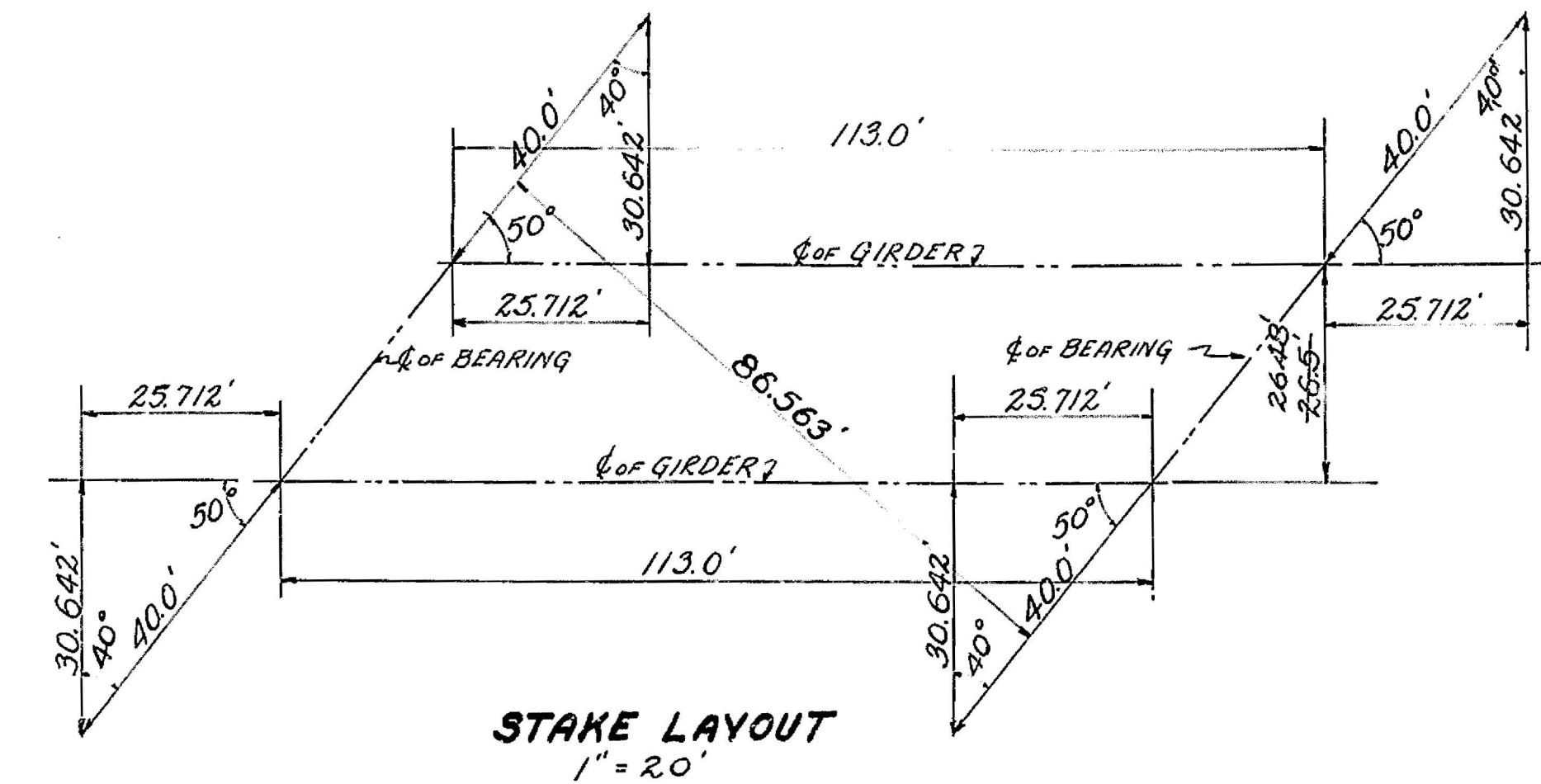
HIGHWAY DEPARTMENT
DELAWARE
CONTRACT 144
STEEL GIRDER BRIDGE
RED CLAY CREEK
0 1 2 3 4 5 6 7 Ft
SCALE $\frac{3}{8}$ " = 1'-0"
FEDERAL AID PROJECT No. 65
MARCH 1931

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	COUNTY	CONTRACT	SHEET
10	DEL.					New Castle	144	

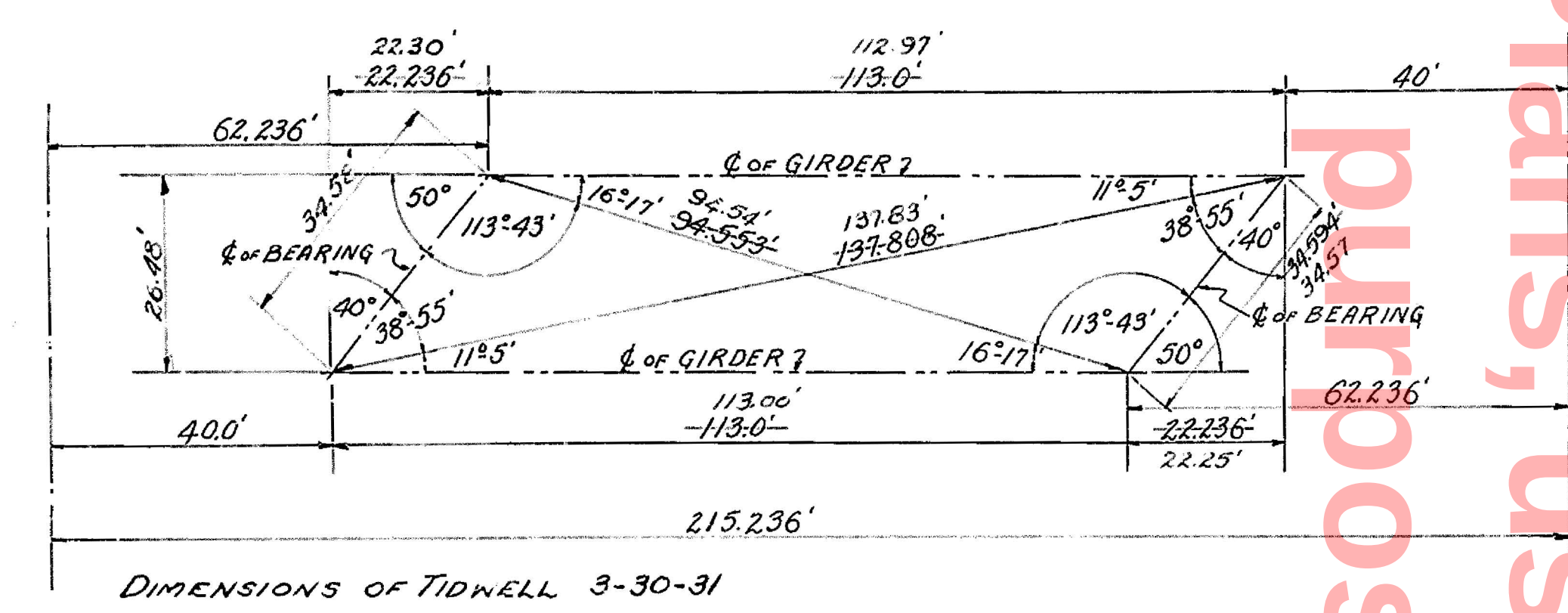
MARSHALLTON BRIDGE 155



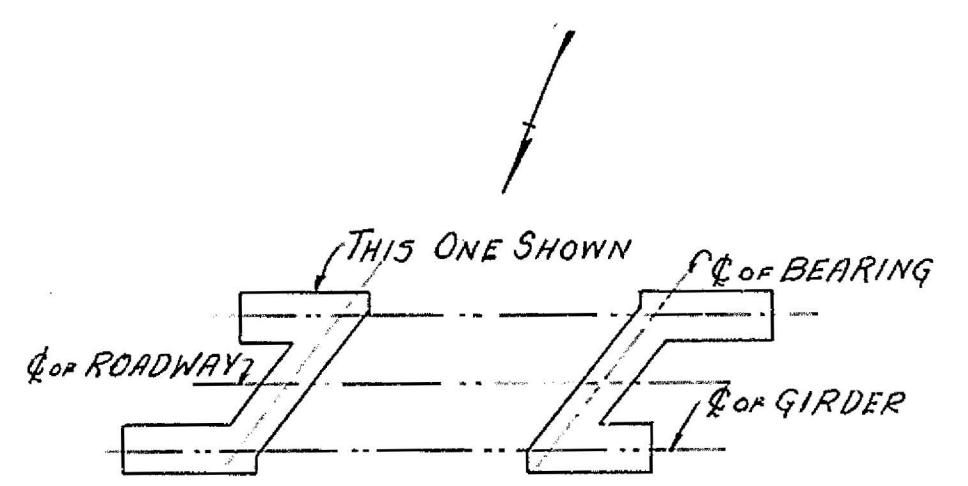
CHECK DIMENSIONS
1" = 20'



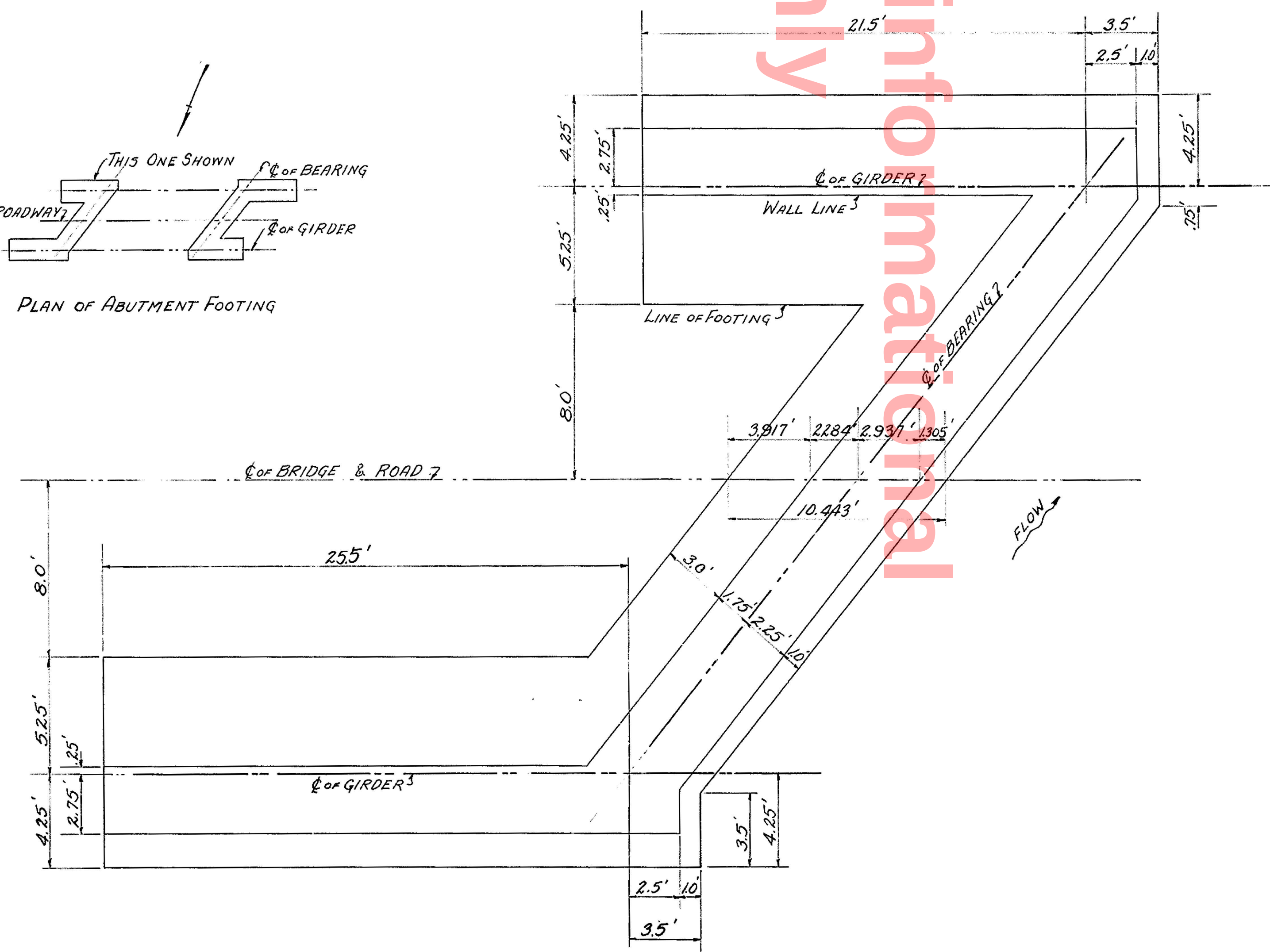
STAKE LAYOUT
1" = 20'



LAYOUT of G's
1" = 20'



PLAN OF ABUTMENT FOOTING



PLAN-ABUTMENT
SCALE 1/4" = 1'-0"

HIGHWAY DEPARTMENT
DELAWARE
CONTRACT 144
STEEL GIRDER BRIDGE
RED CLAY CREEK

APPROVED *A. B. Livingston*
BRIDGE ENGINEER

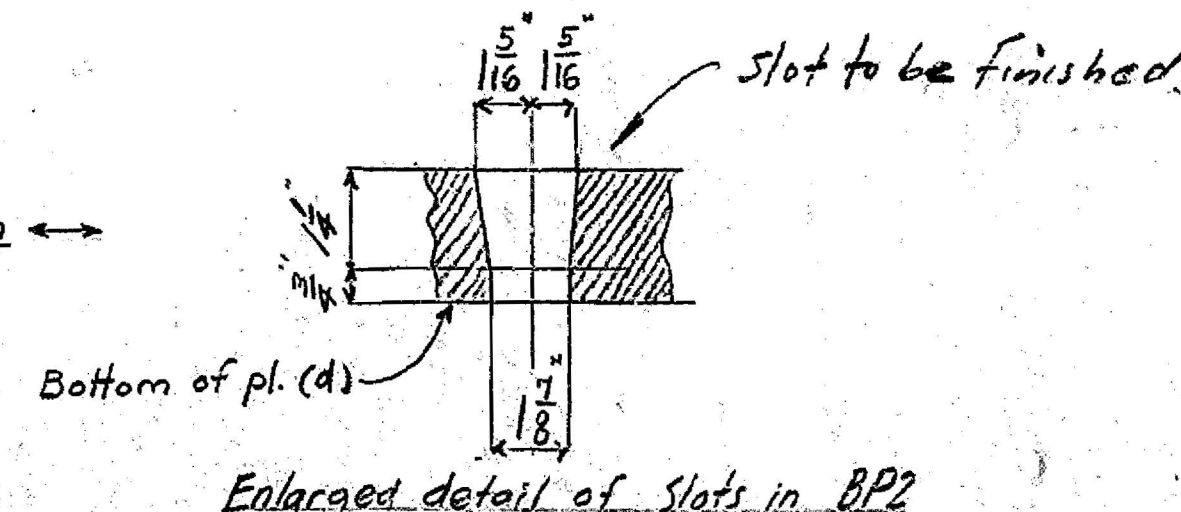
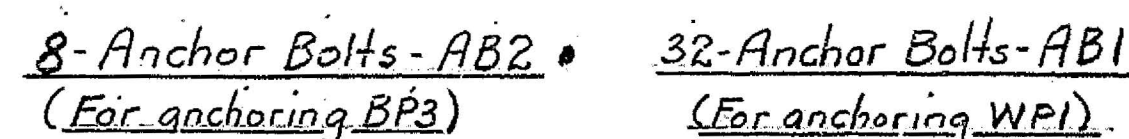
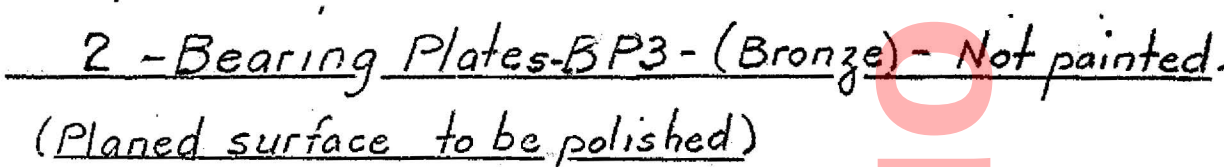
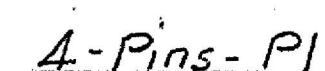
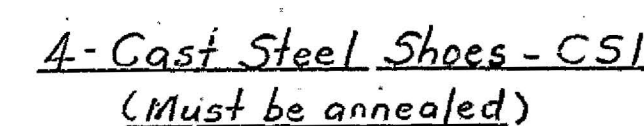
SURVEY LAYOUT

NOVEMBER-1930

D-J.M.G.
E-J.M.G.
C-R.T.
11/29/1930

J. H. WEIL & CO., PHILA. 300-1130

For informational purposes only



Rivets 7" ϕ
Open holes as noted.
All Cast Steel Shoes to be annealed.
Surfaces marked 'f' to be machine finished.
All machine finished surfaces to receive
one coat of white lead and tallow.
Specifications of the A.A.S.H.O under date of Aug. 1, 1928;
Standard Specification for Highway Bridges and
Incidental structures. (H15)
Paint - One coat of Du Ponts Dulux Metal Kramate
Primer unless noted

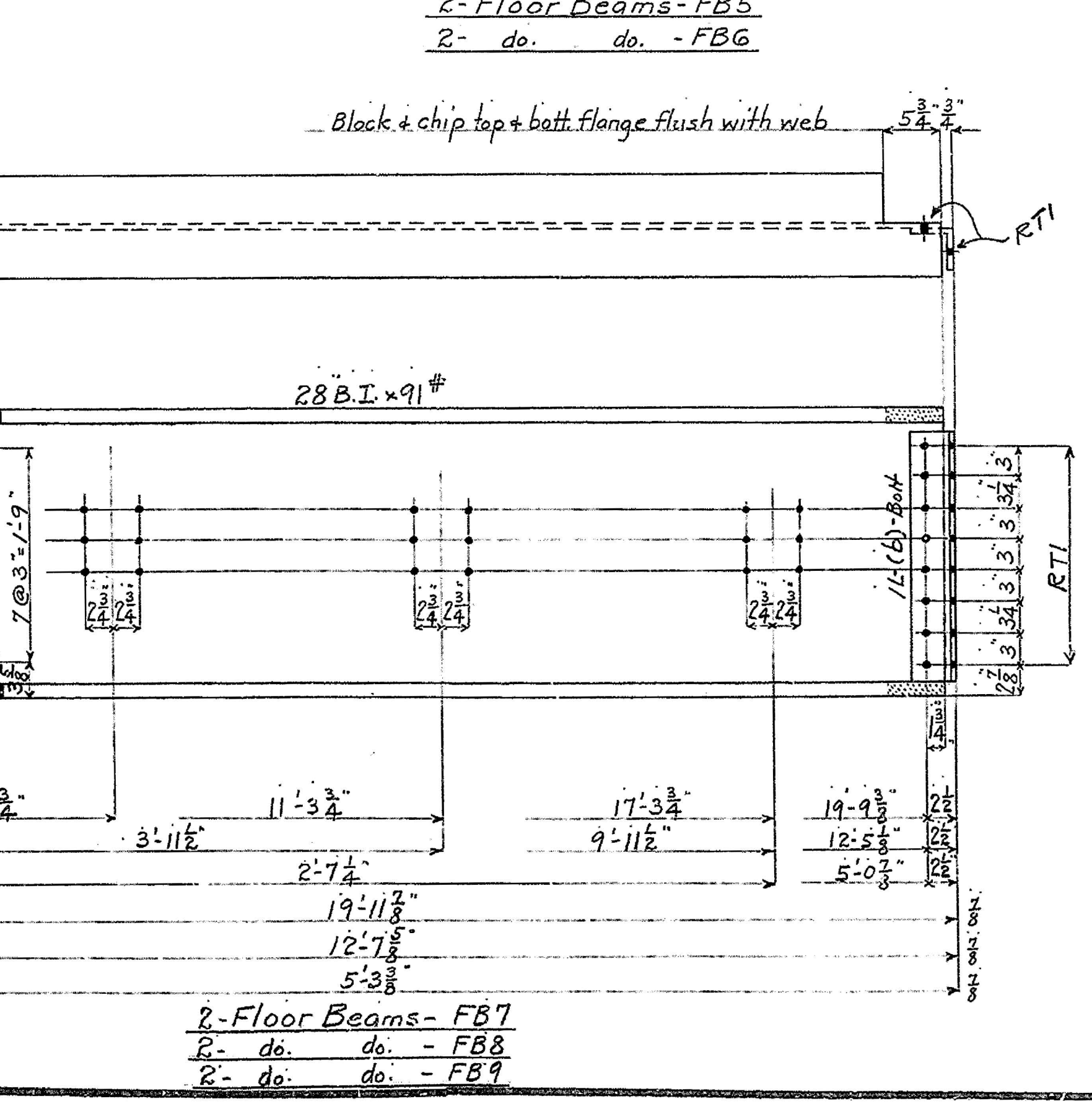
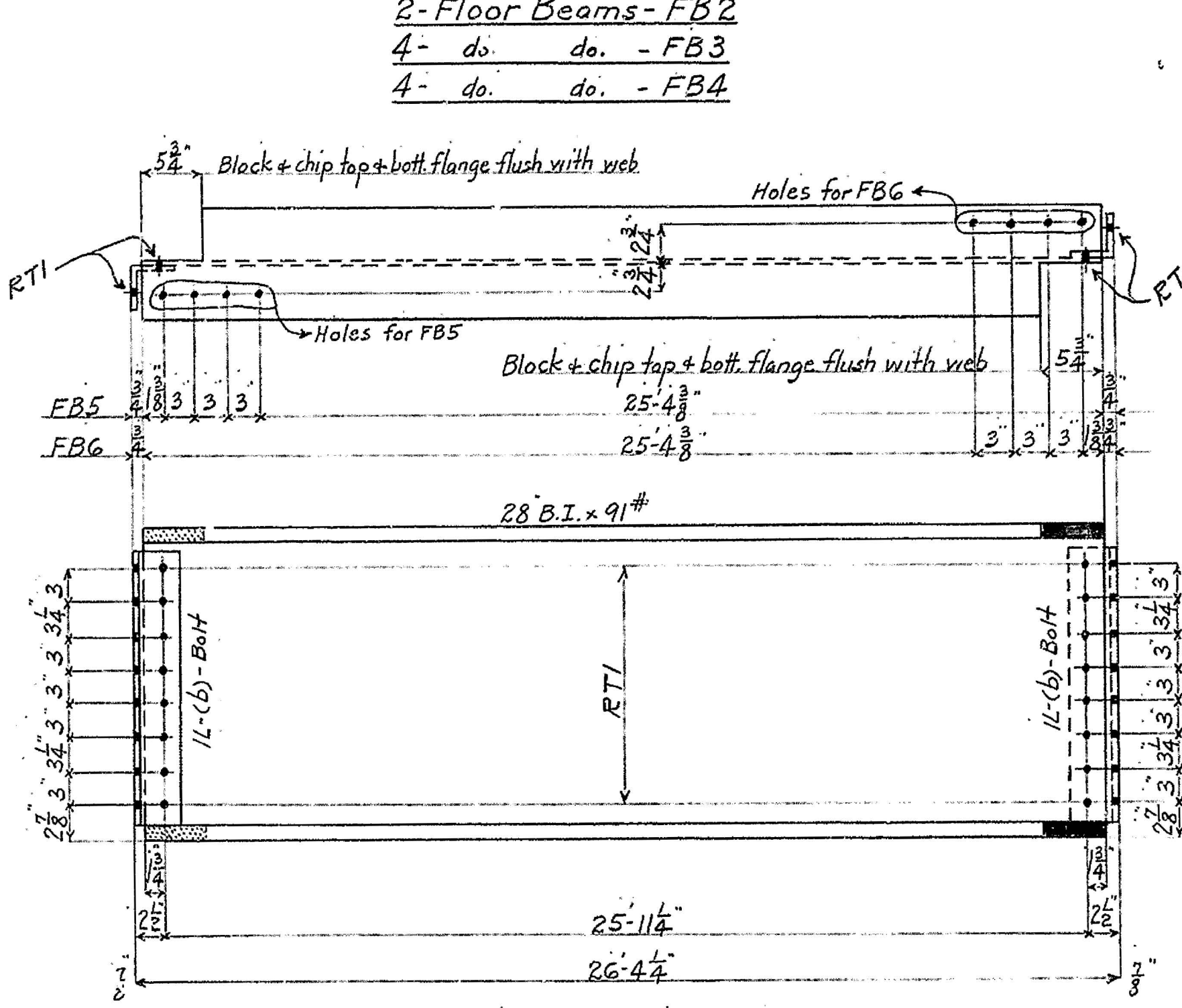
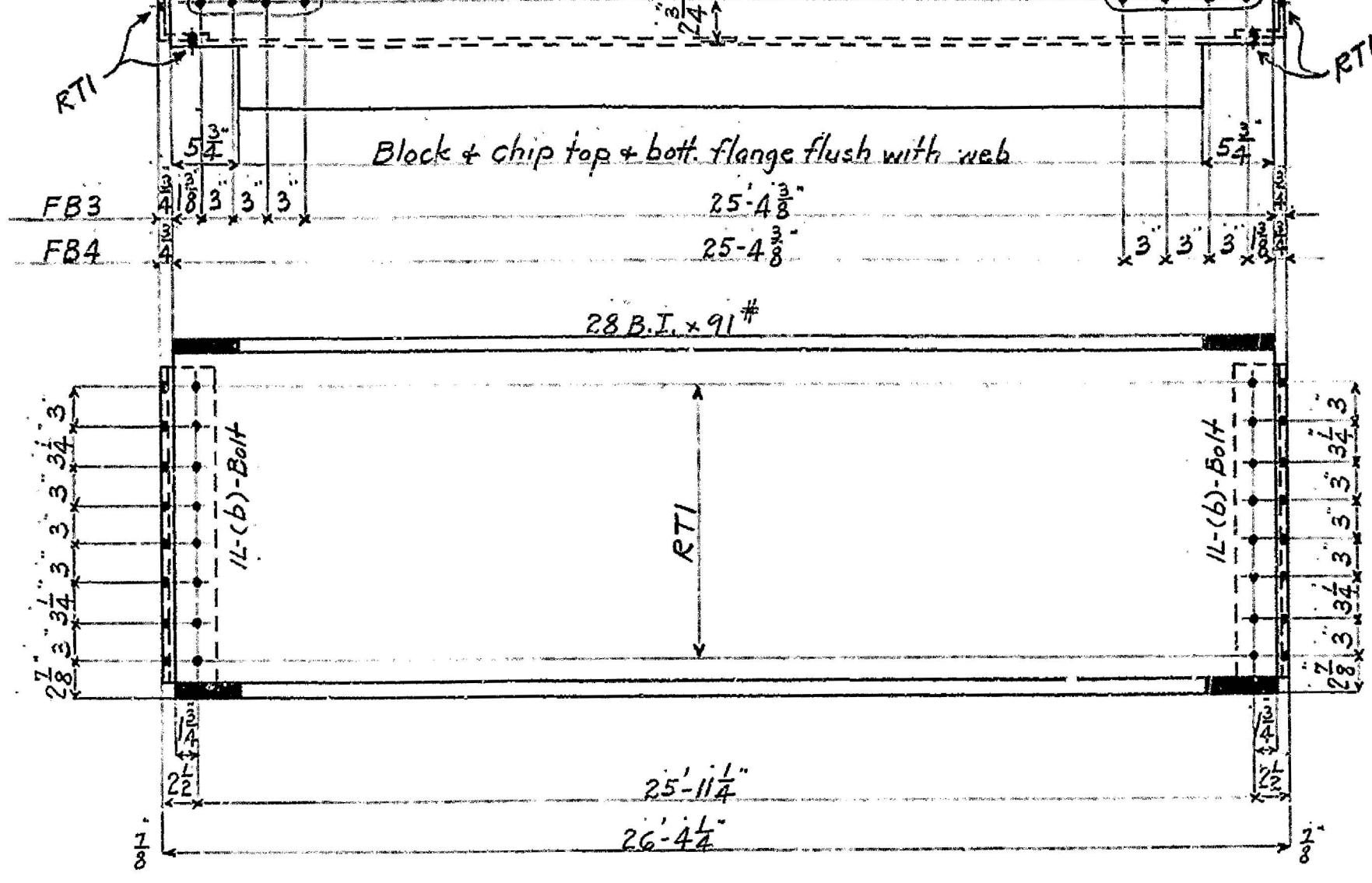
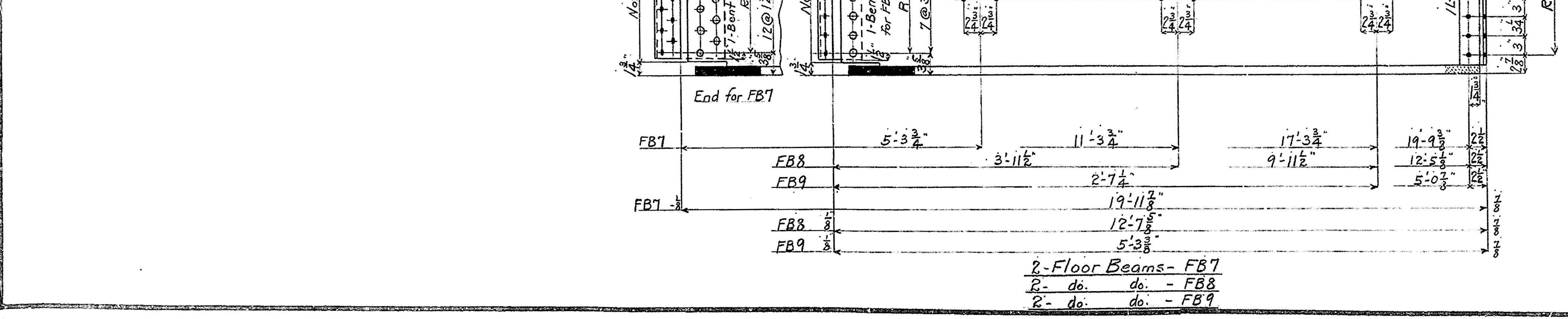
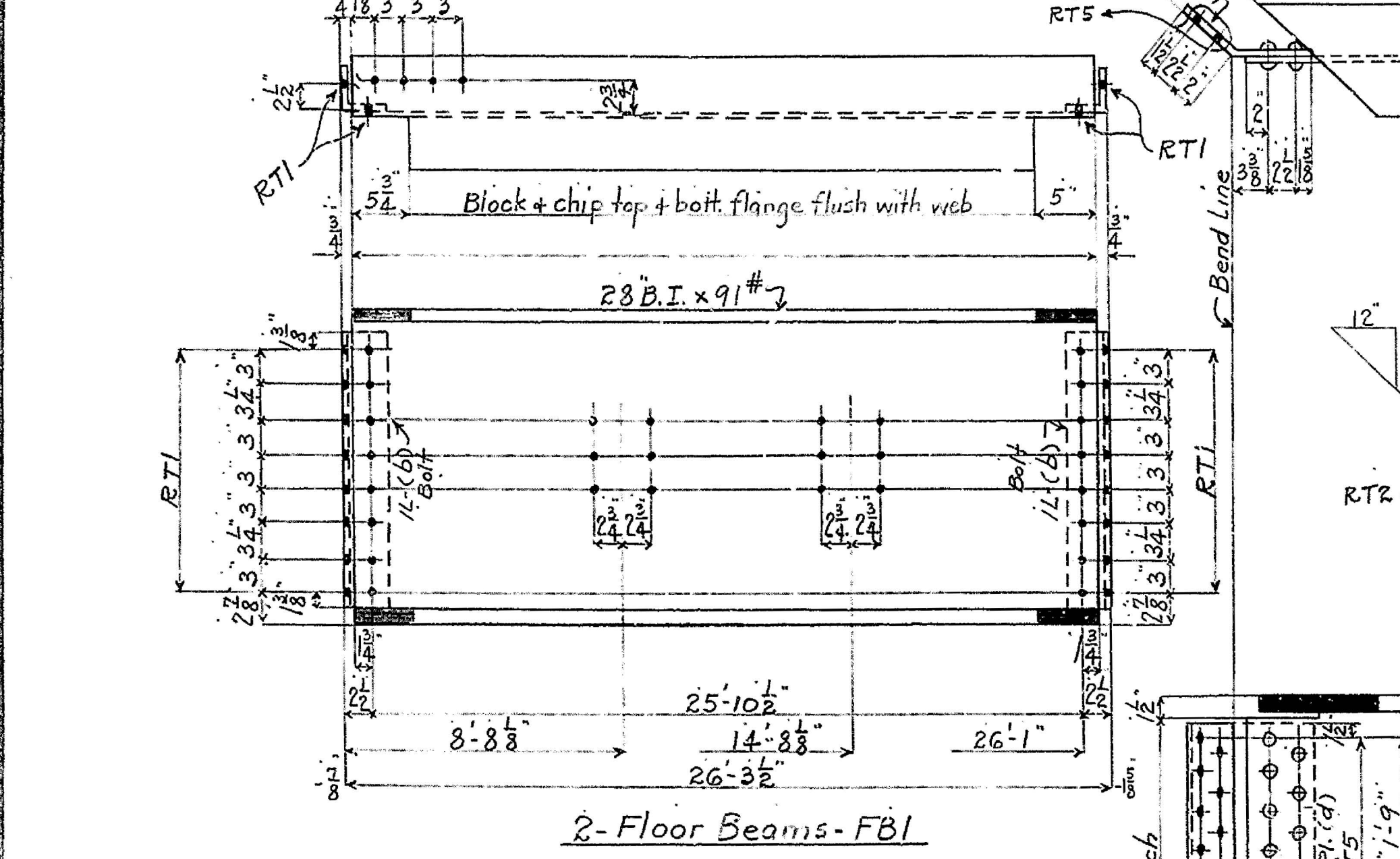
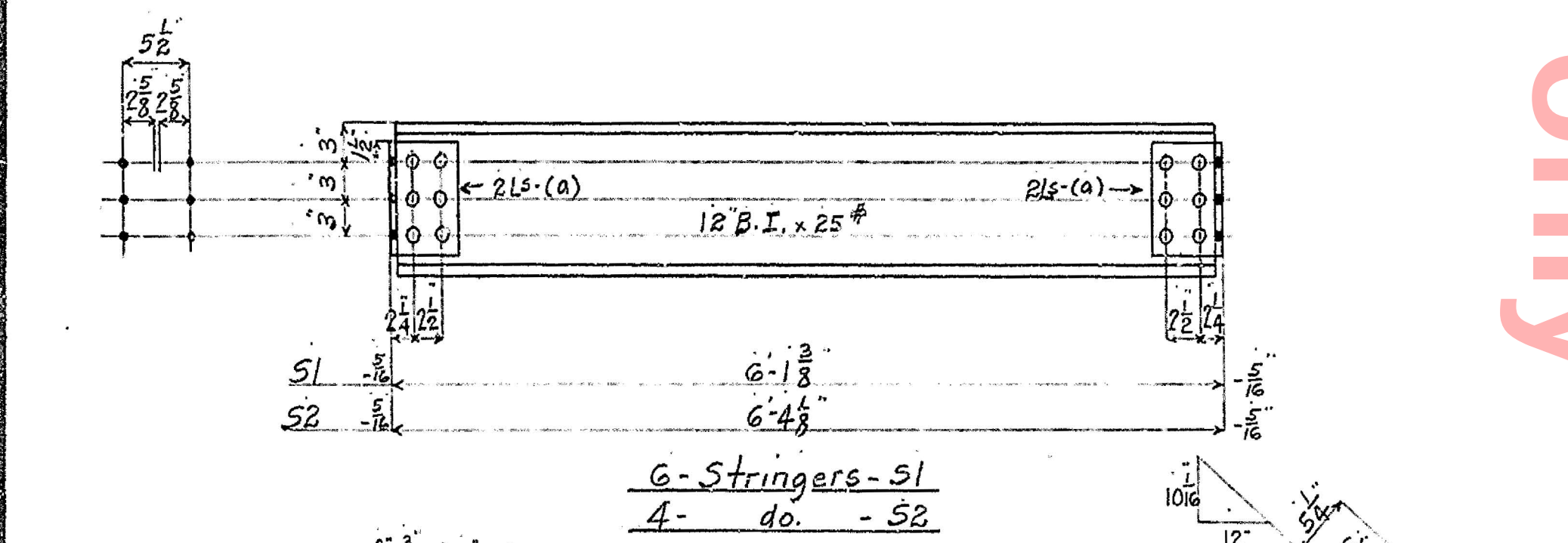
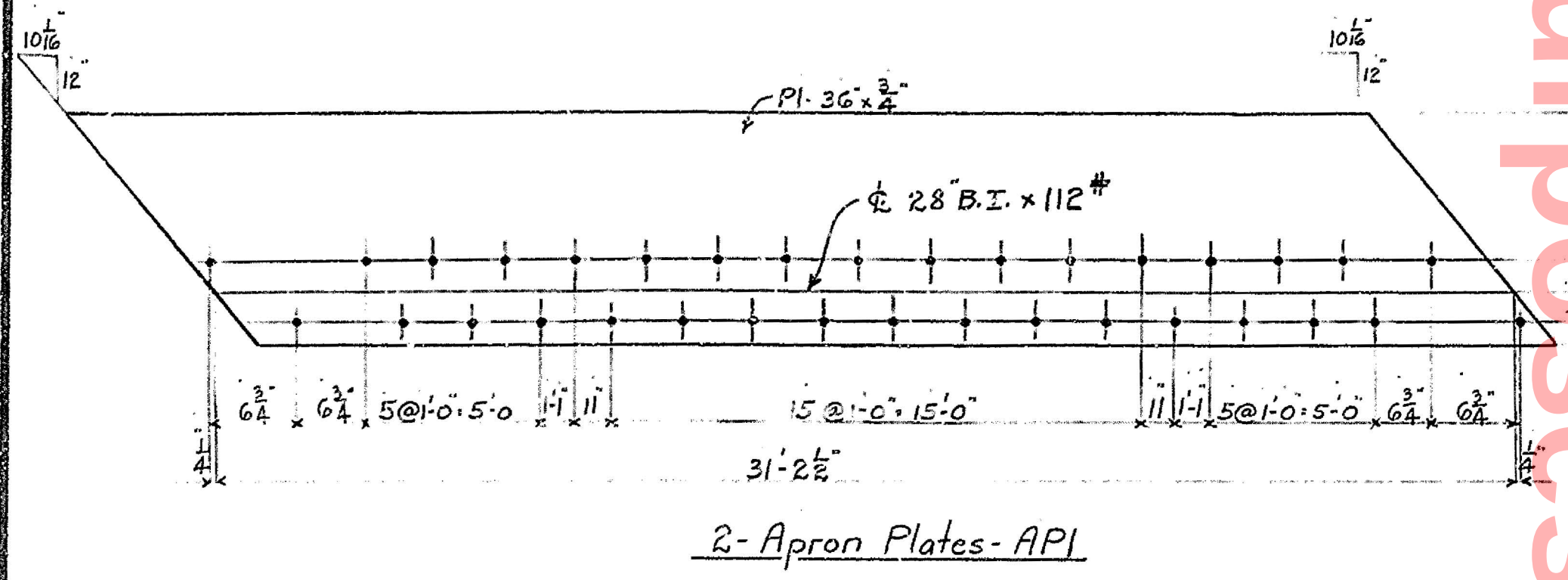
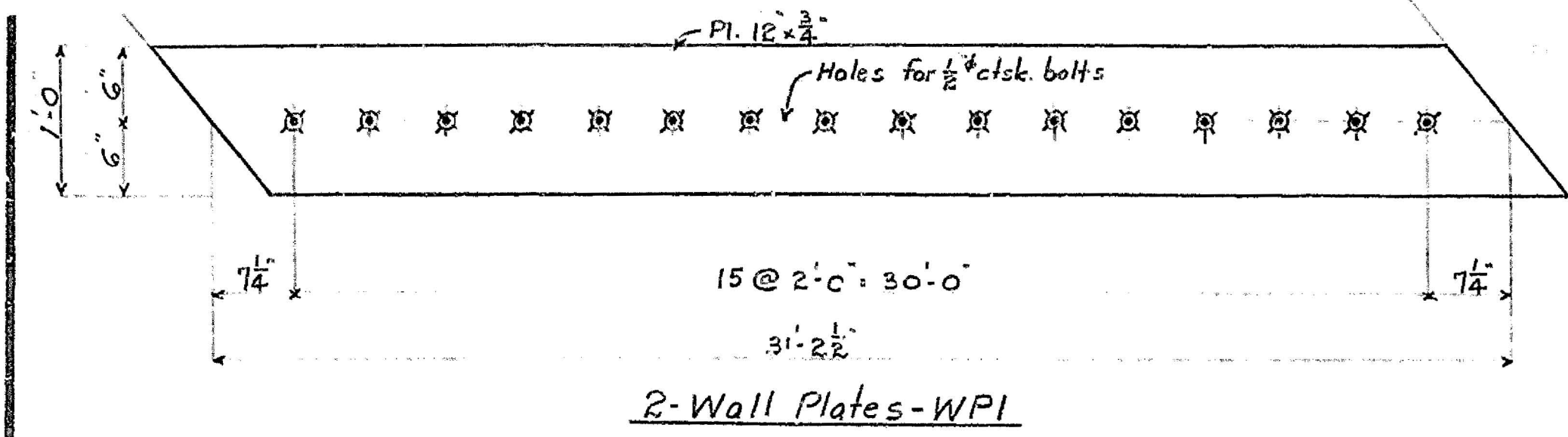
Castings, Roller Nests, Bearing Pls. etc.

SHOEMAKER BRIDGE CO.
POTTSTOWN, PENNA.
Highway Bridge over Red Clay Creek
Marshallton, New Castle Co.
Delaware

MADE BY FLY CONTRACT NO. 3584E
TRACED BY FLY DRAWING NO. 1
CHECKED BY D.C.Y. 4-1-31 DATE 3-21-31
IN CHARGE OF _____

(Rev. 4-11-31) (BP3 - RVI - CS2 - BP2)

Plans, use for informational purposes only



BILL OF MATERIAL															ITEM MARKED				
ITEM NO.	QUANTITY	DESCRIPTION	UNIT	PRICE	TOTAL	REMARKS	WEIGHT	VALUE	REMARKS	WEIGHT	VALUE	REMARKS	WEIGHT	VALUE	REMARKS	WEIGHT	VALUE	REMARKS	WEIGHT
WPI	2	PI. 12 x 3/4"	2	32.00	64.00		20.10	12.10		20.10	12.10		20.10	12.10		20.10	12.10		20.10
API	2	PI. 36 x 3/4"	2	33.80	67.60		63.30	21.30		63.30	21.30		63.30	21.30		63.30	21.30		63.30
10-Stringers-S1	6	28 B.I. x 25"	6	6.00	36.00		12.00	7.20		12.00	7.20		12.00	7.20		12.00	7.20		12.00
10-Stringers-S2	4	28 B.I. x 25"	4	6.00	24.00		8.00	4.80		8.00	4.80		8.00	4.80		8.00	4.80		8.00
2-Floor Beams-FB1	2	28 B.I. x 91"	2	26.20	52.40		26.20	52.40		26.20	52.40		26.20	52.40		26.20	52.40		26.20
2-Floor Beams-FB2	2	28 B.I. x 91"	2	26.20	52.40		26.20	52.40		26.20	52.40		26.20	52.40		26.20	52.40		26.20
2-Floor Beams-FB3	2	28 B.I. x 91"	2	26.20	52.40		26.20	52.40		26.20	52.40		26.20	52.40		26.20	52.40		26.20
2-Floor Beams-FB4	2	28 B.I. x 91"	2	26.20	52.40		26.20	52.40		26.20	52.40		26.20	52.40		26.20	52.40		26.20
2-Floor Beams-FB5	2	28 B.I. x 91"	2	26.20	52.40		26.20	52.40		26.20	52.40		26.20	52.40		26.20	52.40		26.20
2-Floor Beams-FB6	2	28 B.I. x 91"	2	26.20	52.40		26.20	52.40		26.20	52.40		26.20	52.40		26.20	52.40		26.20
2-Floor Beams-FB7	2	28 B.I. x 91"	2	26.20	52.40		26.20	52.40		26.20	52.40		26.20	52.40		26.20	52.40		26.20
2-Floor Beams-FB8	2	28 B.I. x 91"	2	26.20	52.40		26.20	52.40		26.20	52.40		26.20	52.40		26.20	52.40		26.20
2-Floor Beams-FB9	2	28 B.I. x 91"	2	26.20	52.40		26.20	52.40		26.20	52.40		26.20	52.40		26.20	52.40		26.20

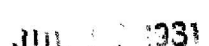
Rivets 7/8"
Open holes 1/2" unless noted.
Holes RT1-245 to be punched 1/2" and reamed to 5/8"
to a metal template 1" thick.
Specifications same as div. #1.
Paint - One coat of Du Pont Dulux Metal Kromate Primer

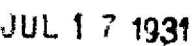
Beams - Plates

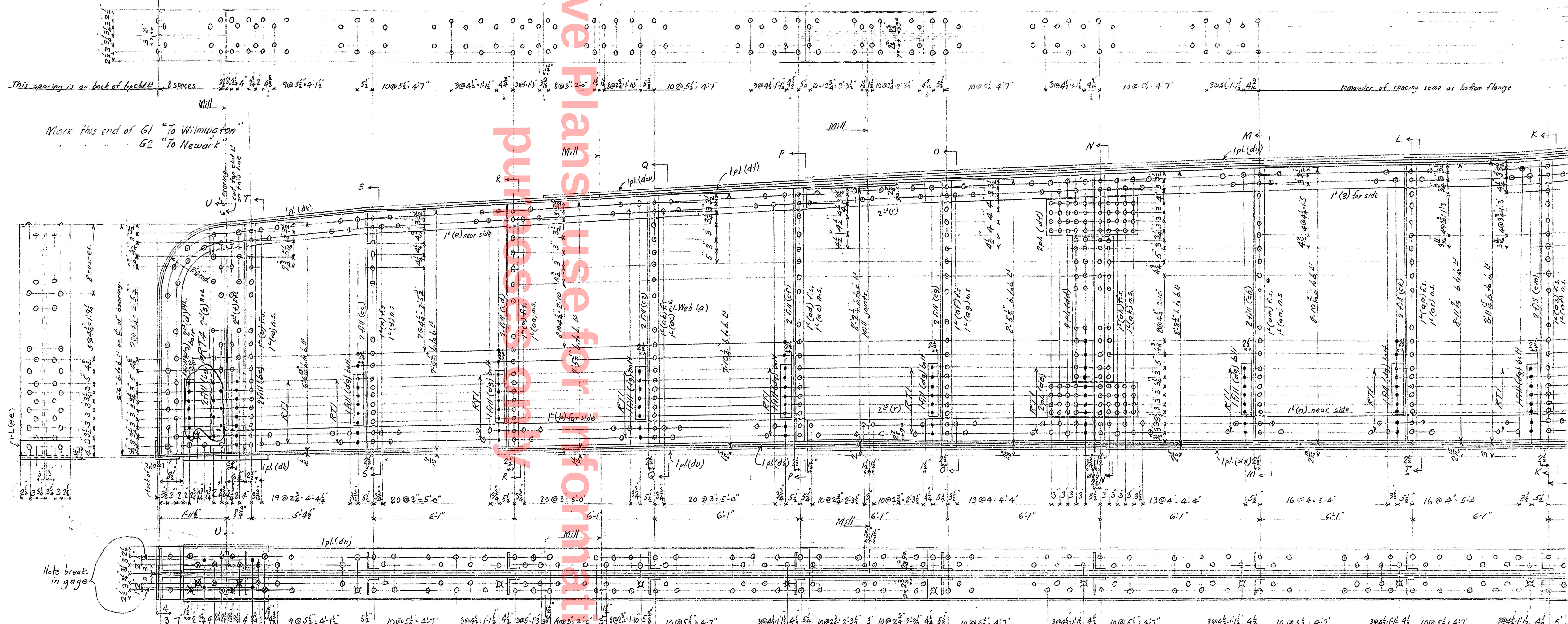
SHOEMAKER BRIDGE CO.
POTTSTOWN, PENNA.
Highway Bridge over Red Clay Creek
Marshallton, New Castle Co.
Delaware.

MADE BY FLY. CONTRACT NO. 3584A
TRACED BY FLY. DRAWING NO. 2
CHECKED BY D.C.Y. 4-2-31 DATE 3-24-31
IN CHARGE OF

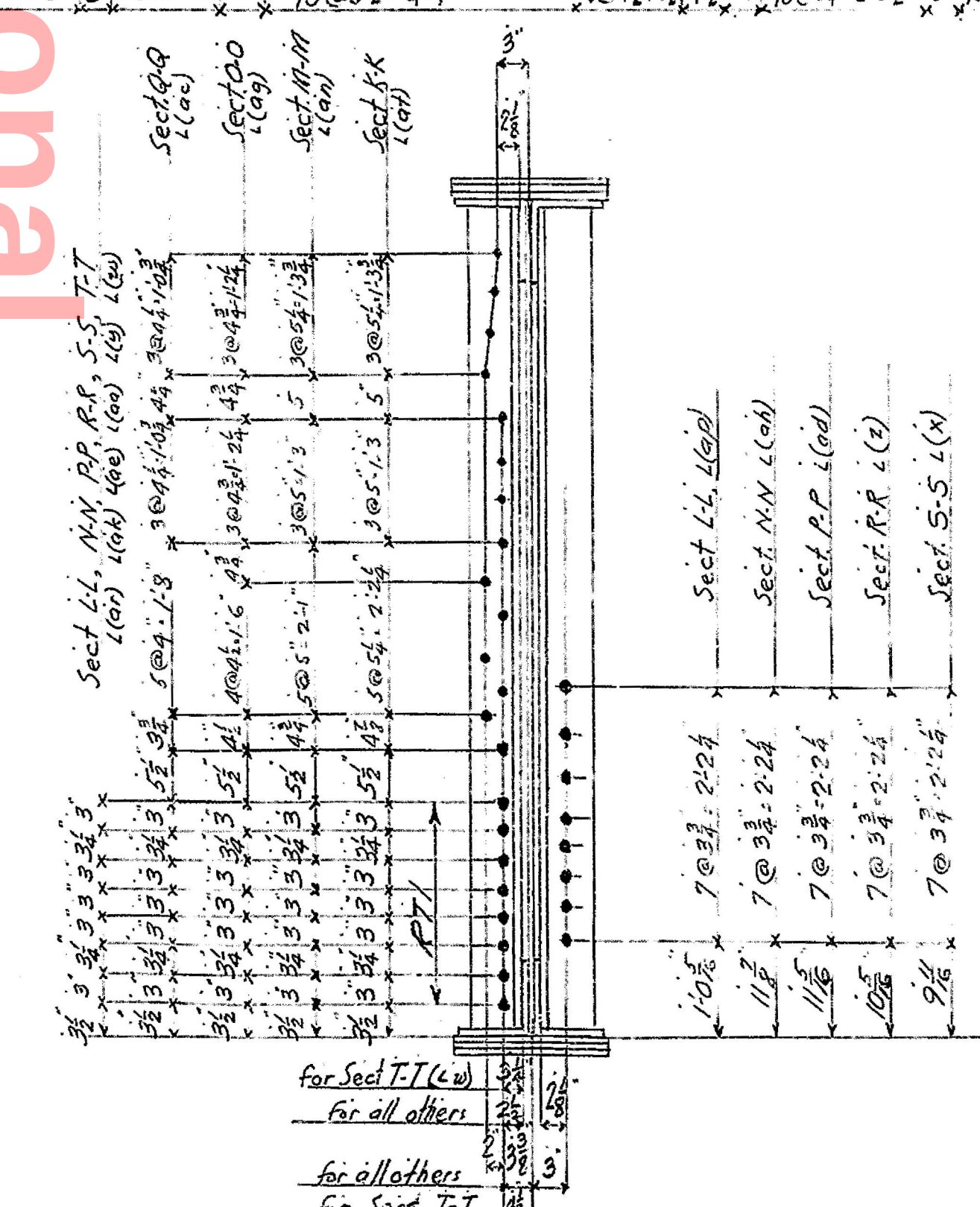
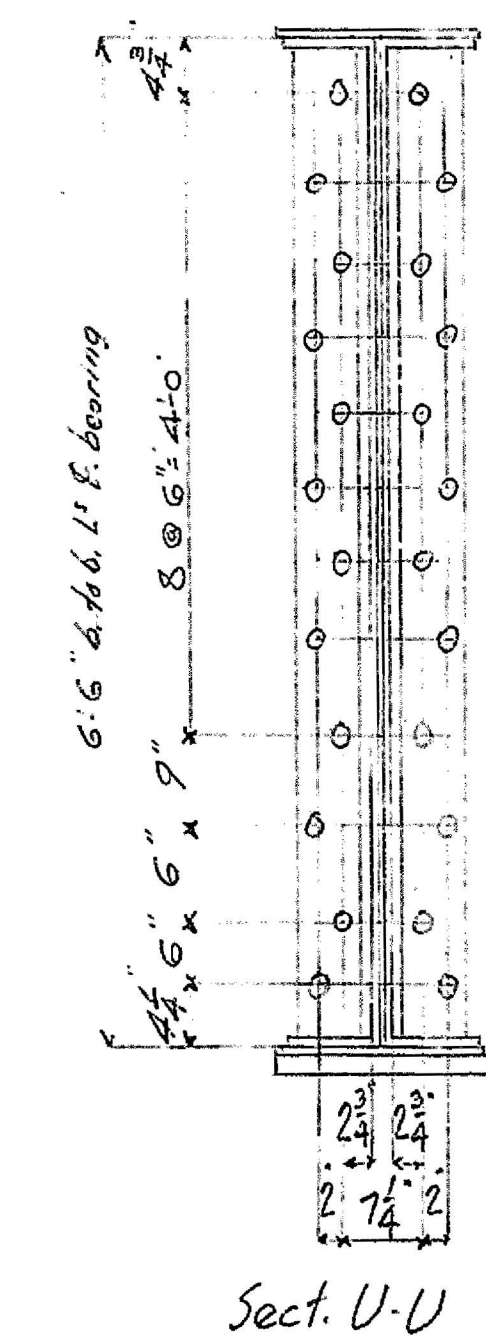
L.M. (d)







Note break in gage



SHOEMAKER BRIDGE CO.	
POTTSTOWN, PENNA.	
MADE BY _____	CONTRACT NO. 3584A
TRACED BY _____	DRAWING NO. 5C
CHECKED BY _____	DATE _____
IN CHARGE OF _____	

