

FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	F-015-2(3)		1	32
STATE JOB NO.		2314		1	32

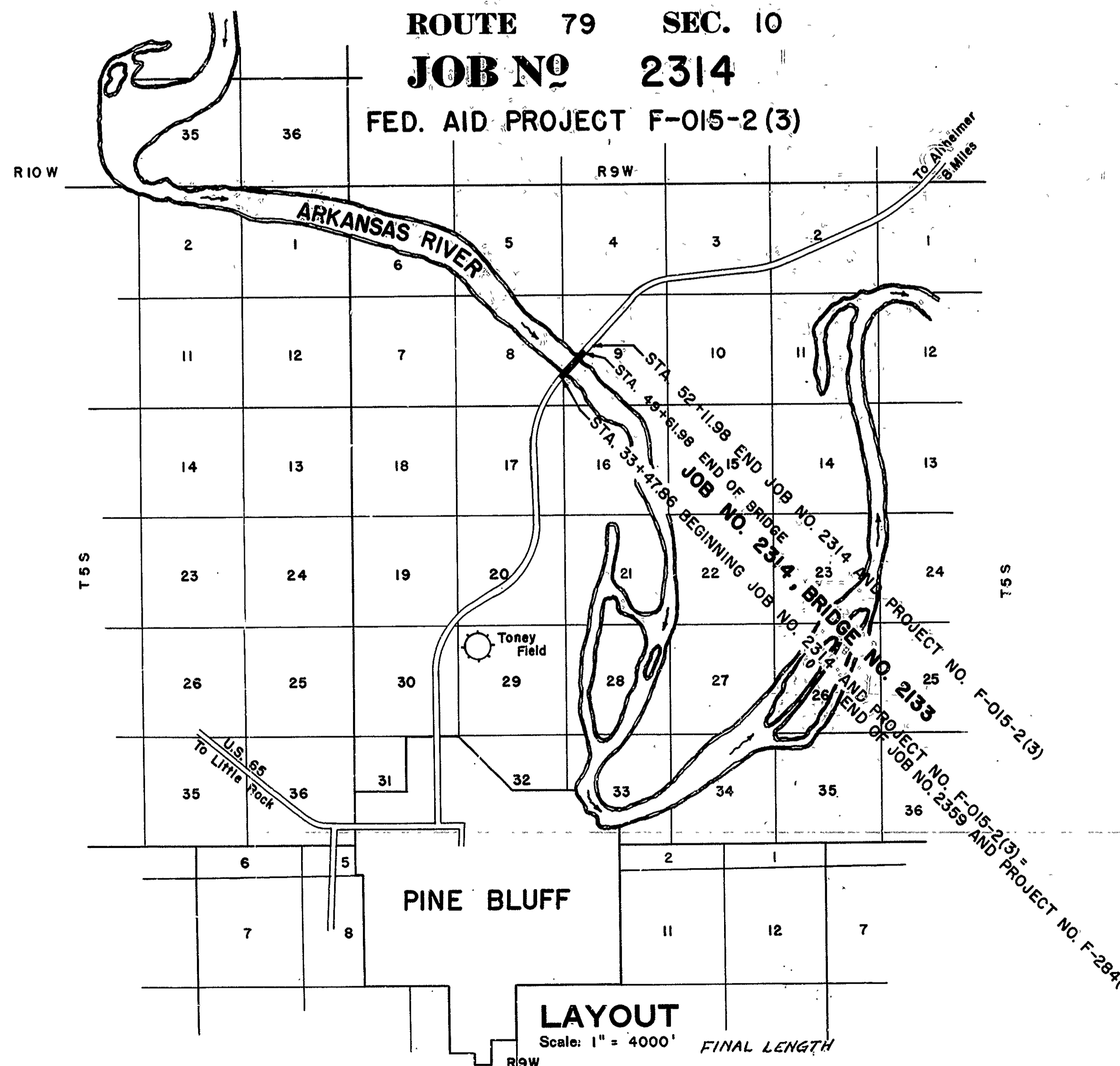
STATE OF ARKANSAS
STATE HIGHWAY COMMISSION

SPECIFICATIONS: ARKANSAS STATE HIGHWAY COMMISSION
STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION
ADOPTED MARCH 1, 1940 WITH THE SPECIAL PROVISIONS LISTED BELOW

SHEET NO.	DRWG. NO.	TITLE
1	7470	Title Sheet
2	7471	Quantity Sheet and Details of North Approach
3	7472	Layout of Bridge No. 2133
4	7471-A	Details at End of South Approach
5	7473	Details of Brackets
6-9	7474-7476 A	Details of Side Drives
10	CP-TJ-1	Joints for Concrete Pavement
11	CP 7 Rev.	Special Details Concrete Pavement
12	GR 6	Steel Plate Guard Fence
13	1896	Standard Barricade Warning & Signs
14	5943	Details of Existing Abutment
15	5958	Details of Lift Span Counterweight
16-17	C8655 E1 & E2	Shop Drawings Original Construction
18	C8655 1AB	Shop Drawings Original Construction
19	C8655 1B	Shop Drawings Original Construction
20	C8655 2AB	Shop Drawings Original Construction
21-23	C8655 3-5 Incl.	Shop Drawings Original Construction
24	C8655 9	Shop Drawings Original Construction
25	C8655 16	Shop Drawings Original Construction
26	C8656 E1	Shop Drawings Original Construction
27-30	C8656 1-4 Incl.	Shop Drawings Original Construction
31	C8656 8	Shop Drawings Original Construction
32	C8657 1	Shop Drawings Original Construction

PLAN OF PROPOSED BRIDGE
WIDENING SIDE DRIVES
ARKANSAS RIVER BRIDGE NEAR PINE BLUFF
JEFFERSON COUNTY
ROUTE 79 SEC. 10
JOB NO 2314

FED. AID PROJECT F-015-2(3)



LENGTH OF PROJECT= 1864.12 FEET = 0.353 MILES 0.352
 LENGTH OF BRIDGES= 1614.12 FEET = 0.306 MILES 0.305
 LENGTH OF EMBANKMENT= 250.00 FEET = 0.047 MILES
 LENGTH OF JOB= 1864.12 FEET = 0.353 MILES

PAMPHLETS	
DIVISION	PART
I	
II	8A,8B,9,10
IV	

No.	SPECIAL PROVISIONS TITLE	No. SHEETS
7-9	Required Contract Provisions For Federal Aid Projects	9
2-1	Competency of Bidders	2
2-2	Equipment List Required	1
2-4	State License For Contractors	1
3-8	Termination of Contract	1
4-1	Revision of Article 4.9	1
7-10	Public Convenience And Safety	1
8-3	Employment of Labor For Federal Aid Projects	1
9-5	Partial Payments	1
9-9	Federal Excise Tax On Freight Shipments	1
125	Special Compaction of Earthwork	3
126	Embankment Material	2
701-28	Portland Cement Concrete Pavement	19
702-2	Reinforcing Steel For Pavement	1
756-1	Physical Characteristics of Concrete Aggregate	1
807-10	Assembly of Structural Joints Using High Tensile Steel Bolts	3
807-14	Open Type Steel Grid Flooring	1
807-15	Concrete Filled Steel Grid Floor Slab	2
850-1	Engineer's Field Office	1
853-1	Machine Mixing	1
925-7	Revision of Article 925.20(a)	1
Job 2314	Steel Plate For Guard Rail	1
Job 2314	Cast Iron For Counterweights	1
Job 2314	Remodeling Existing Bridge	2
6-L	Furnishing Materials From Bars, Pits, and Quarries	2
Job 2314	Source of Embankment Material	1

APPROVED

CHIEF ENGINEER-STATE HIGHWAY COMMISSION

APPROVED

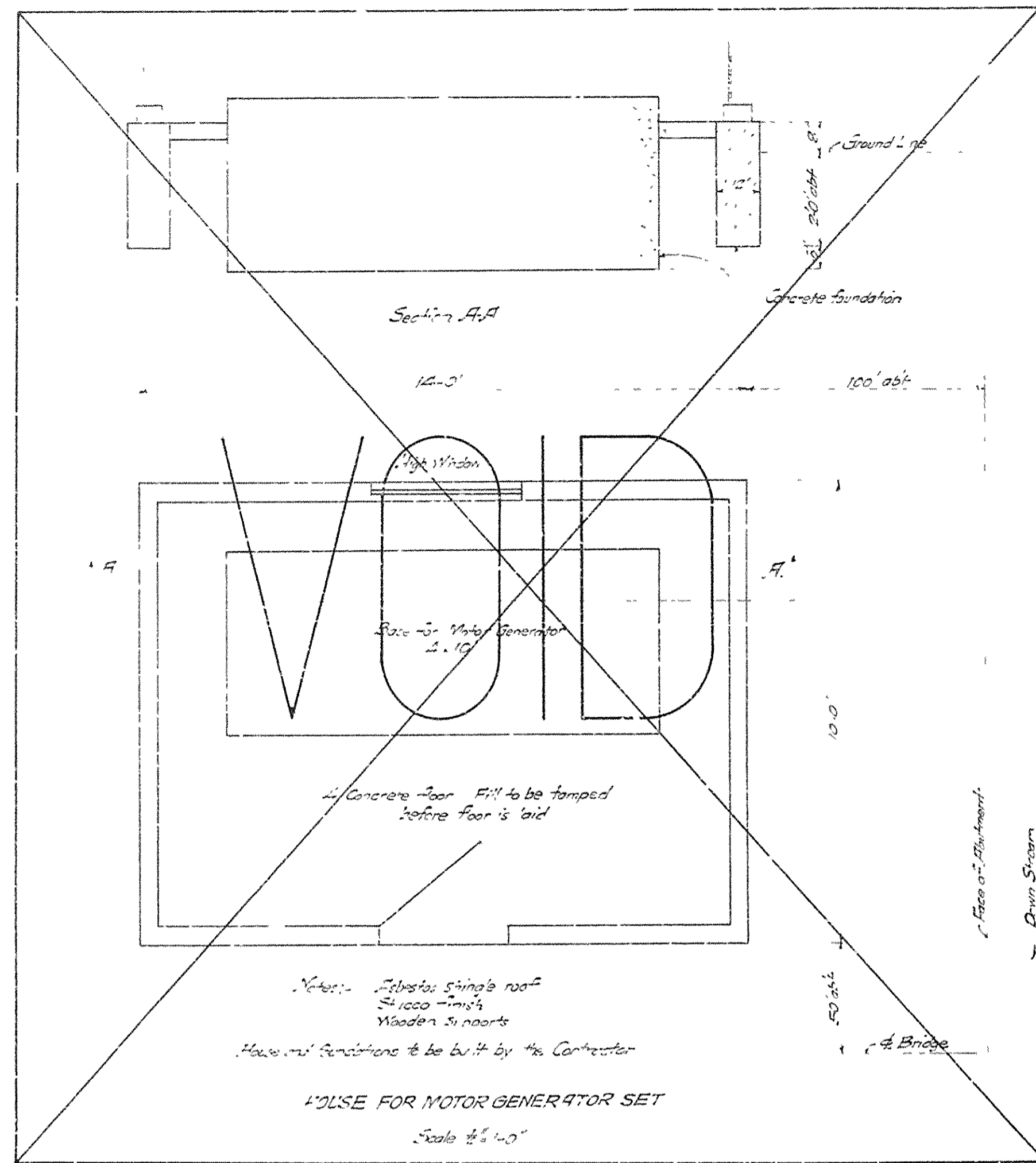
CHAIRMAN-STATE HIGHWAY COMMISSION

APPROVED

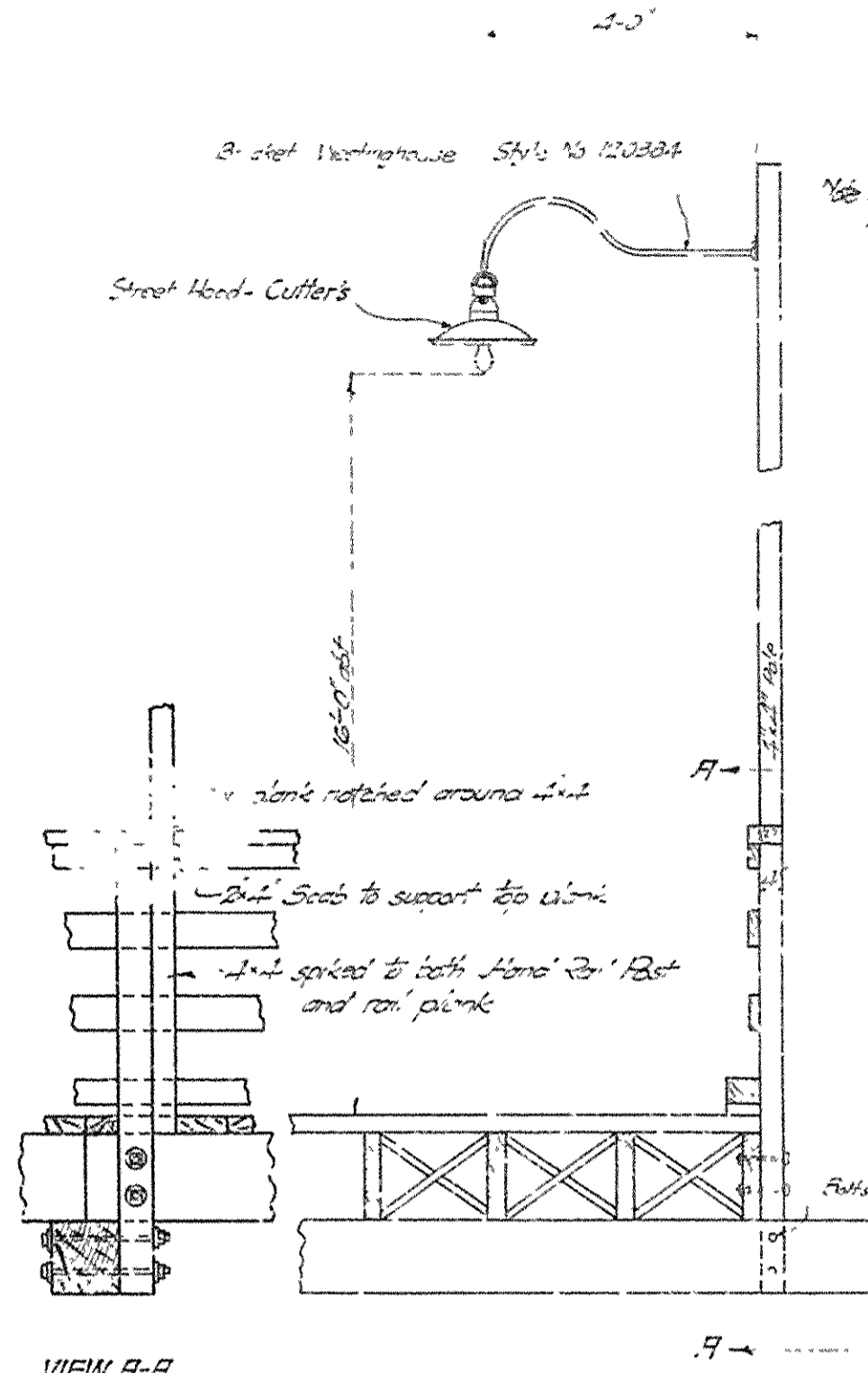
DISTRICT ENGINEER
DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS

APPROVED

Ward Goodman
BRIDGE DESIGN ENGINEER

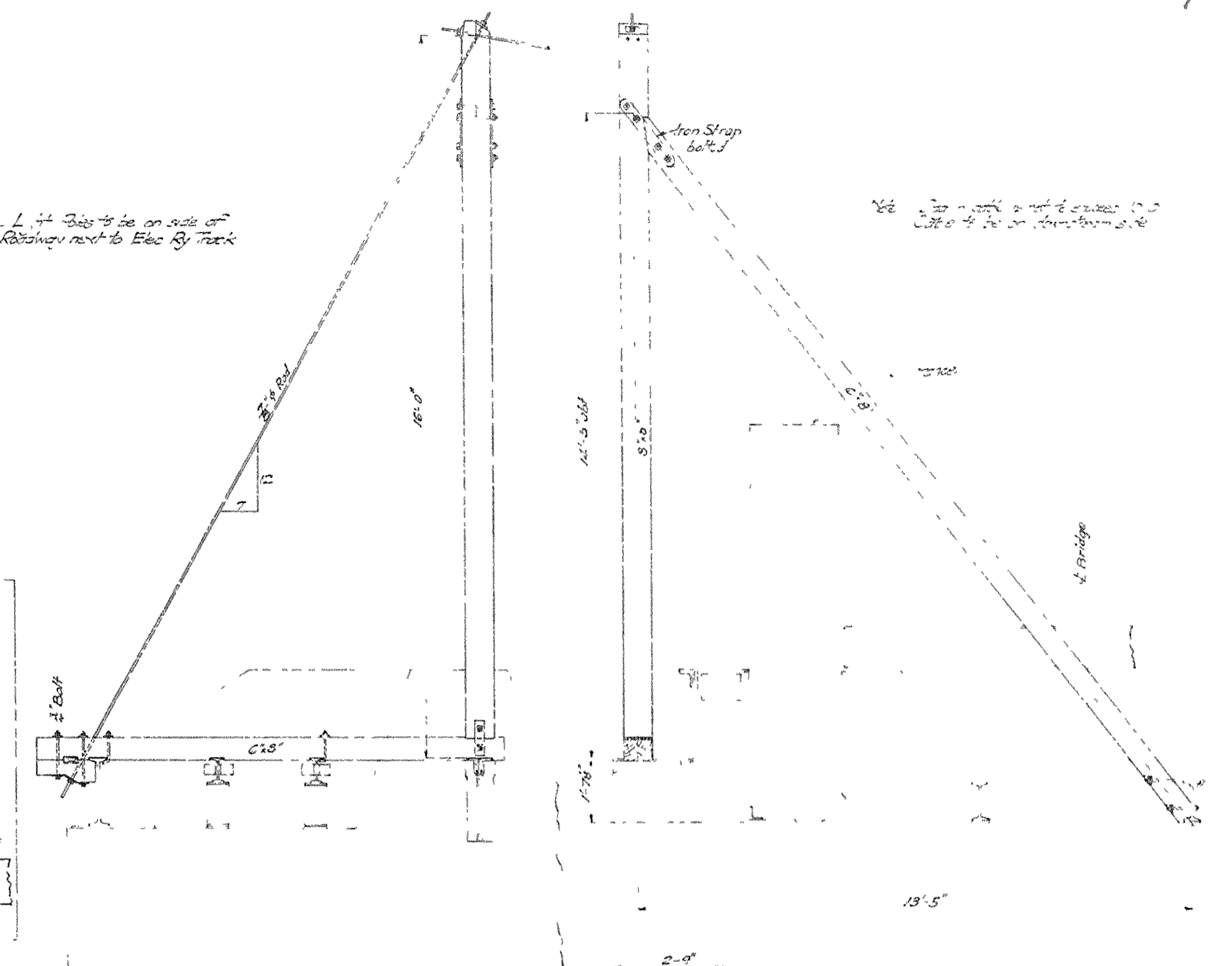


Note: For Detail of House for Motor Generator set see Sheet No. 85



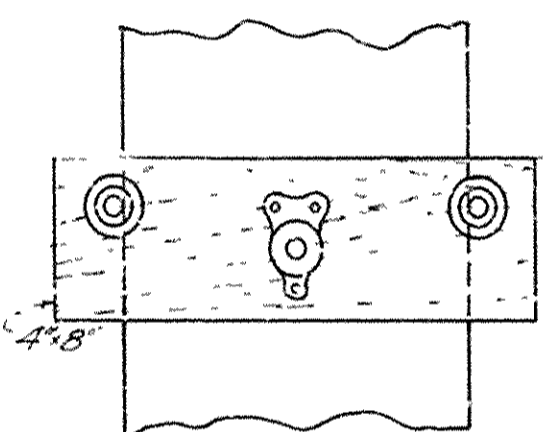
TYPICAL DETAILS OF LIGHT POLES & BRACKETS FOR TRESTLE APPROACH

Scale 3/4" = 1'-0"

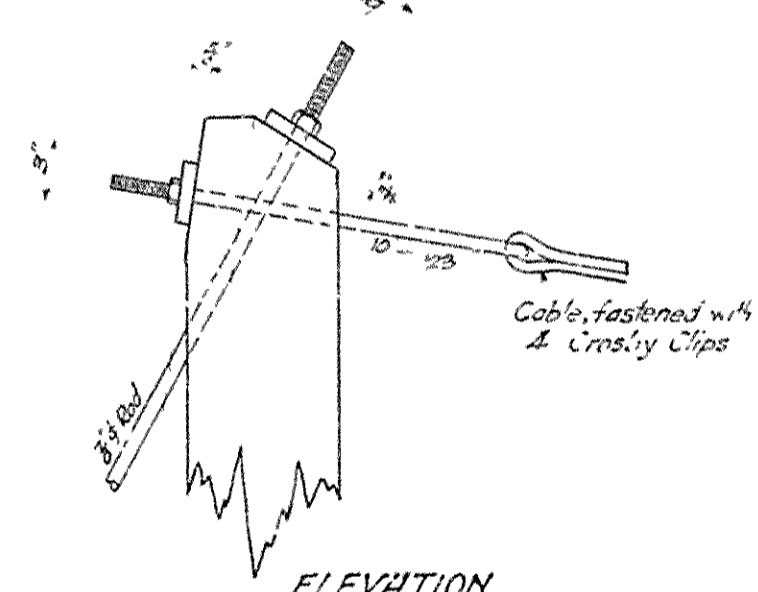


TOWER AND ANCHORAGE FOR MESS CABLE

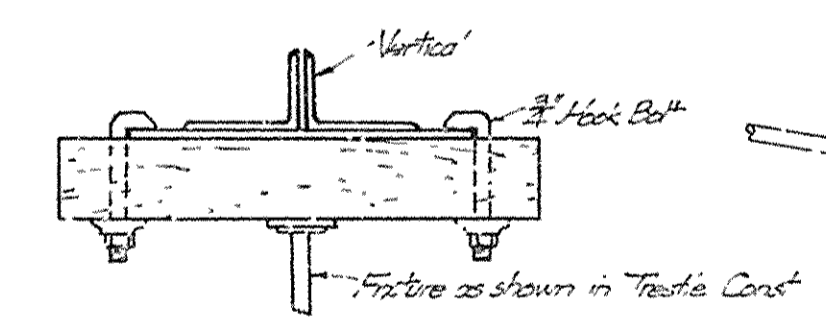
Scale 3/4" = 1'-0"



ELEVATION



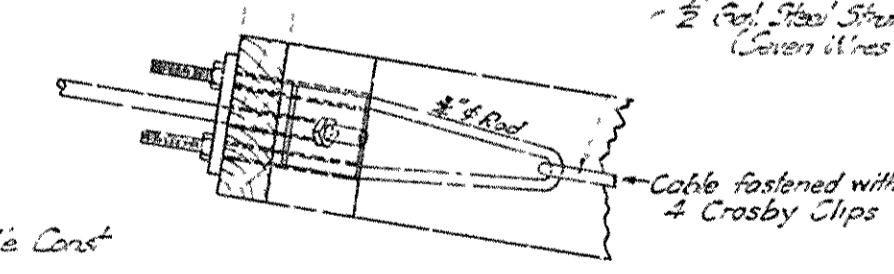
ELEVATION



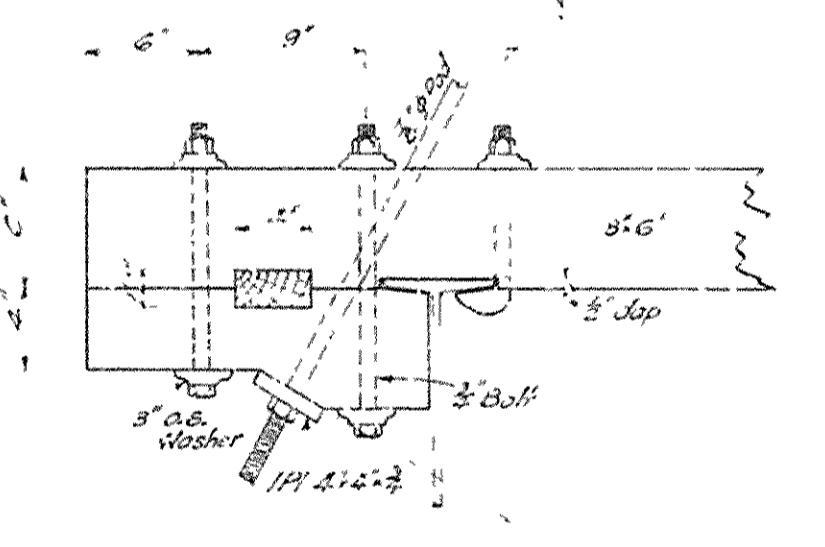
PLAN

DETAIL OF CONNECTION OF BRACKET TO STEEL WORK

Note: If preferred a suitable metal clamp may be used.



DETAIL AT TOP OF POST



DETAIL OF ANCHORAGE

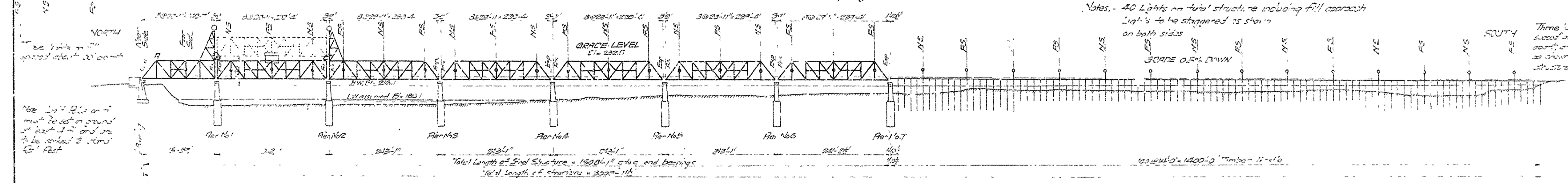


DIAGRAM SHOWING LOCATION OF LIGHTS

Scale 1" = 100'

Notes: - 40 Lights on this structure including full approach. Lights to be staggered as shown on both sides.

GRADE OVER DRAWN

Three 1/2" x 1/2" steel plates 100' apart, and stopped as shown in this structure.

BRIDGE OVER ARKANSAS RIVER
NEAR PINE BLUFF, ARKANSAS

POWER & LIGHTING DETAILS

Scale as shown

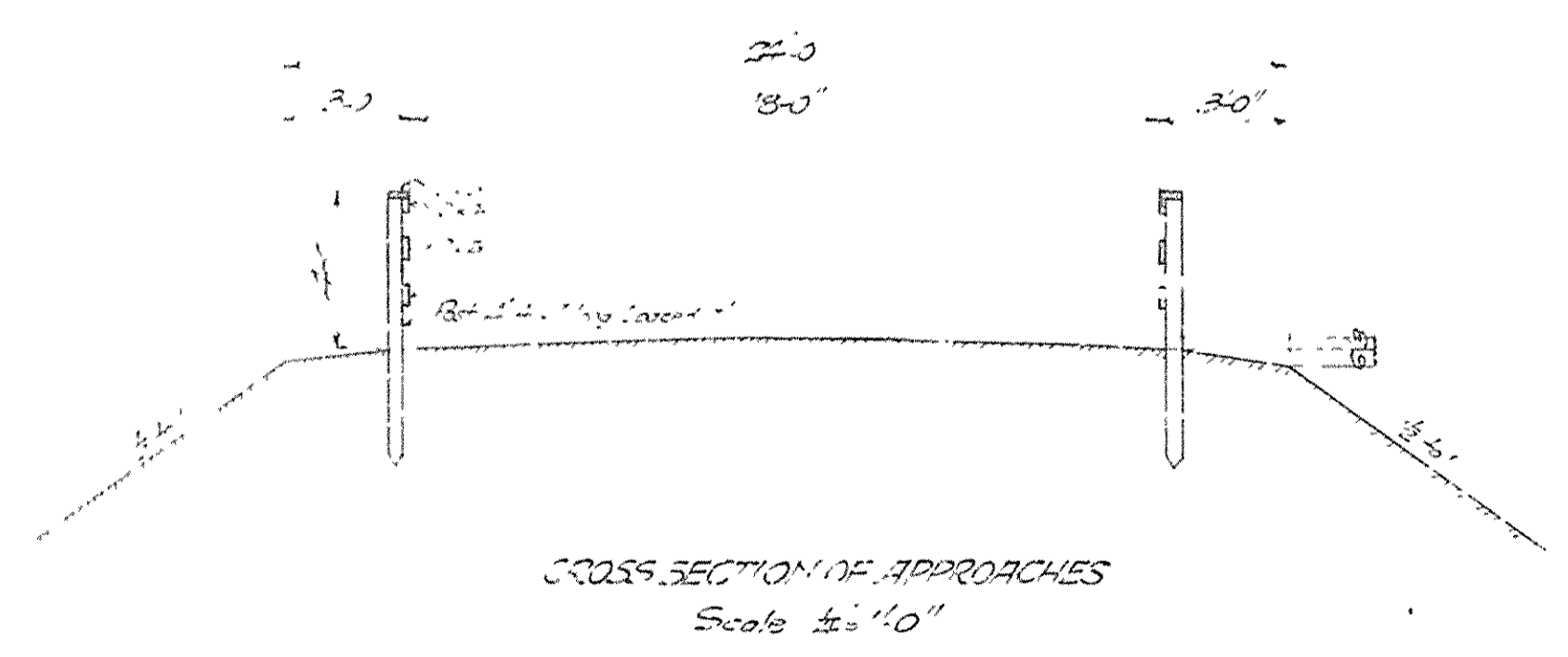
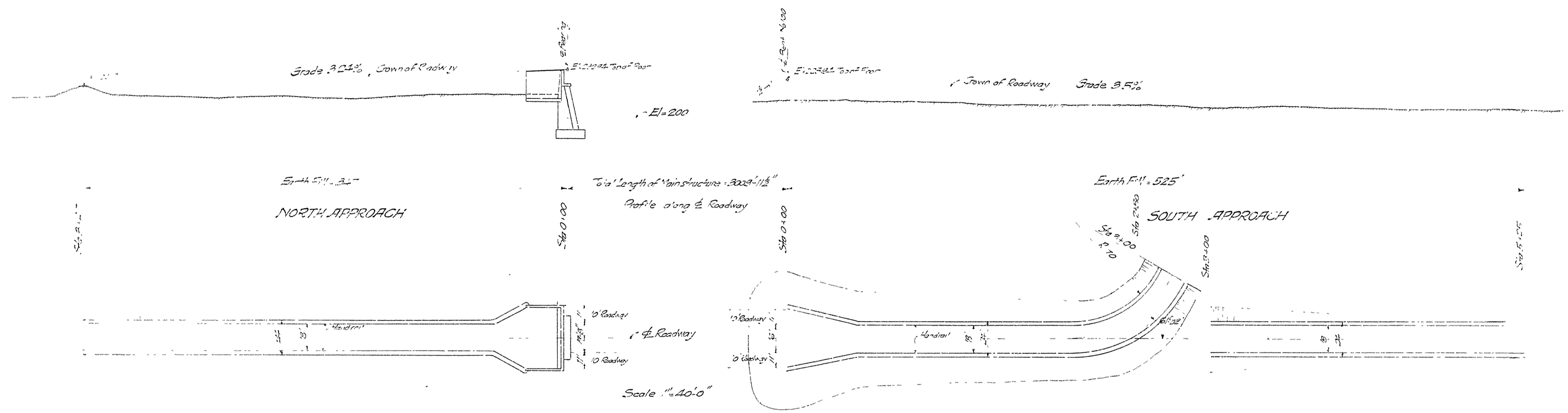
JEFFERSON COUNTY BRIDGE DISTRICT

Drawn by J.M. R. 1/10/12
Checked by J.M. R. 1/10/12
Approved by J.M. R. 1/10/12

Checked by J.M. R. 1/10/12
Approved by J.M. R. 1/10/12

SHEET NO. 34

11



Volume of Earth Work :-

North Approach	=	7100	Cubic yards
South Approach	=	6500	"
"Gts."	=	13600	"

Timber in Hand Rail
1750 @ .55 = 9625 FB. M.

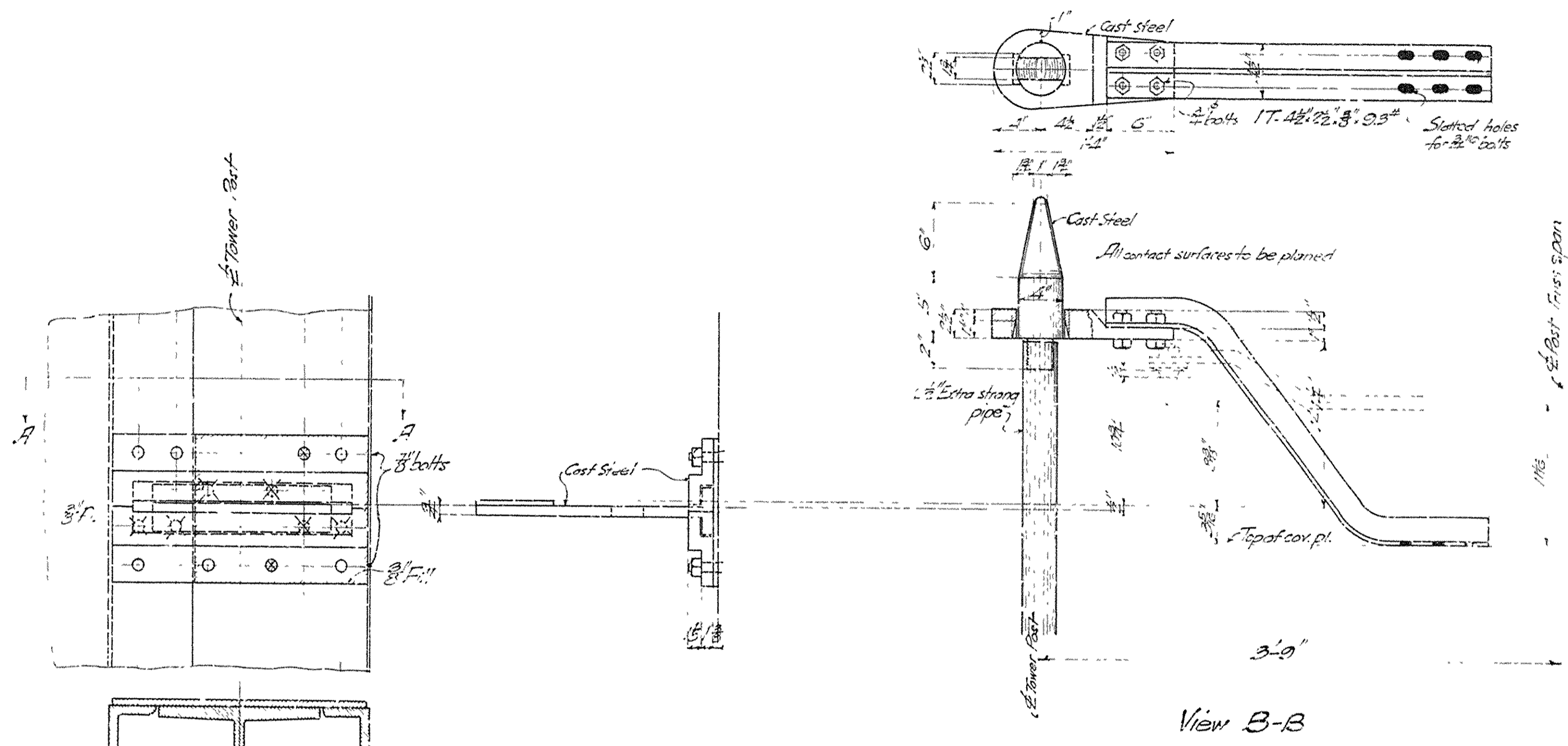
BRIDGE OVER ARKANSAS RIVER
NEAR PINE BLUFF, ARKANSAS
 EARTH FILL APPROACHES
 Scales as shown
 JEFFERSON COUNTY BRIDGE DISTRICT

Made by J.M. 10-2-14 Hedrick B. Cochran,
 Consulting Engrs.,
 Kansas City, Mo.

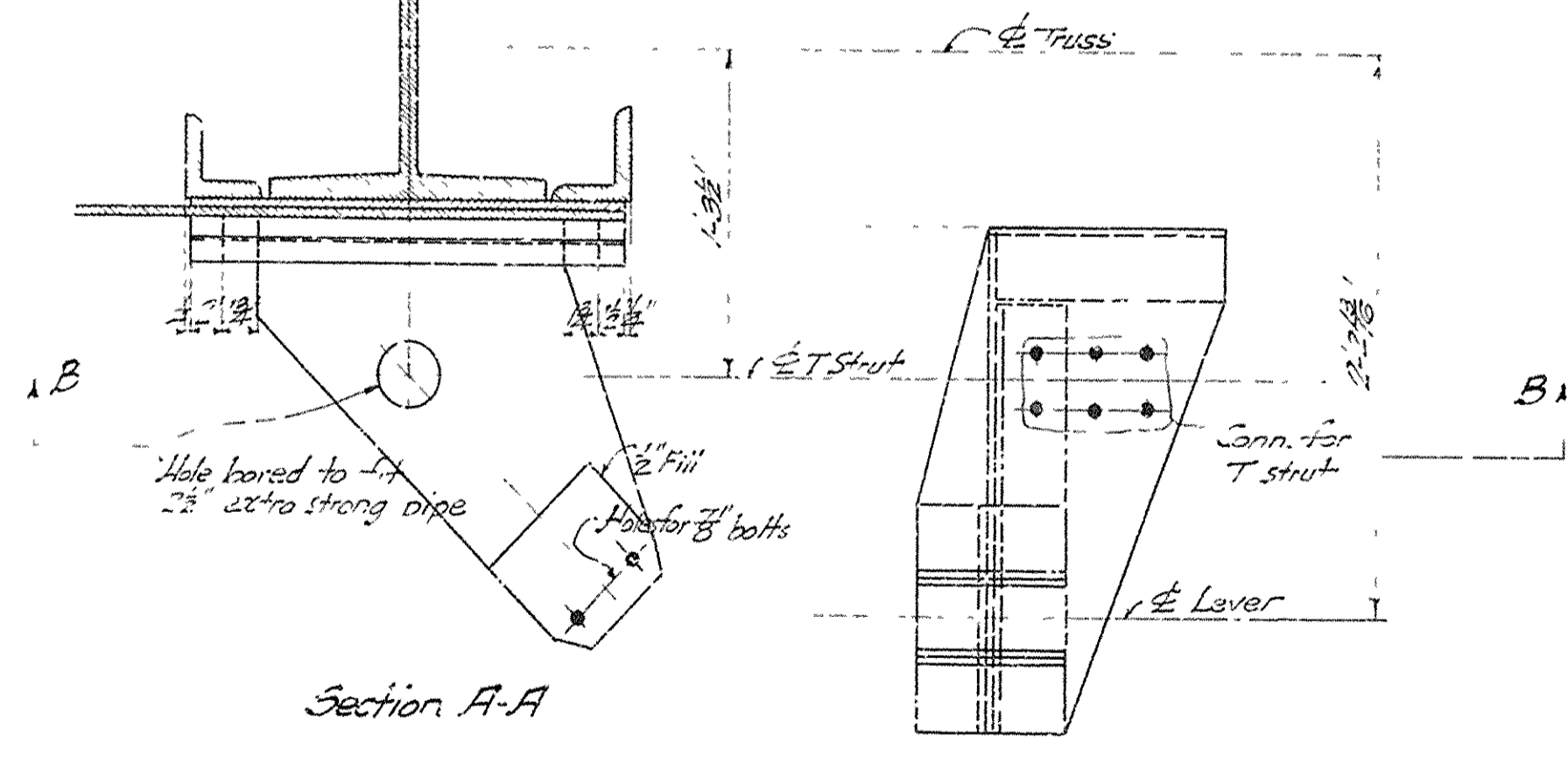
SHEET No 33

Br. No. 2133 Drawg. No. 5963 46-0-26

112



Details of operating mechanism of highway gates at the south end of 129'-7" span.

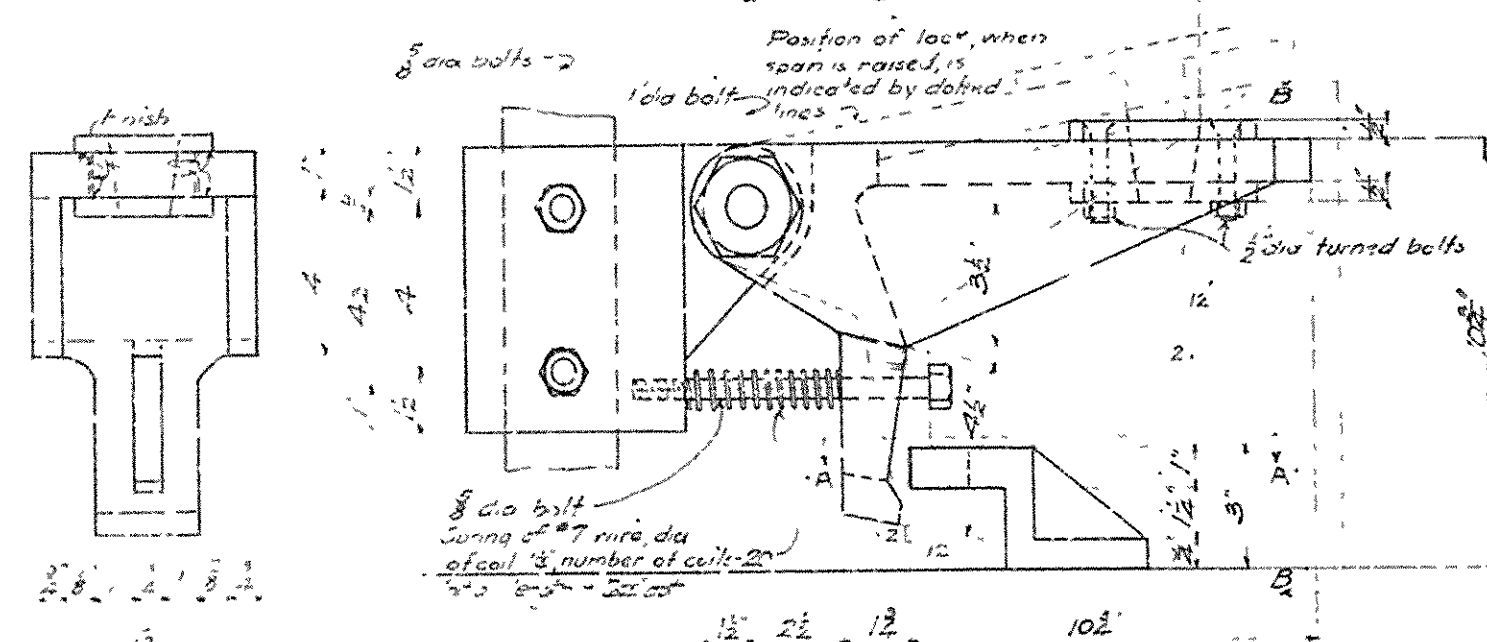
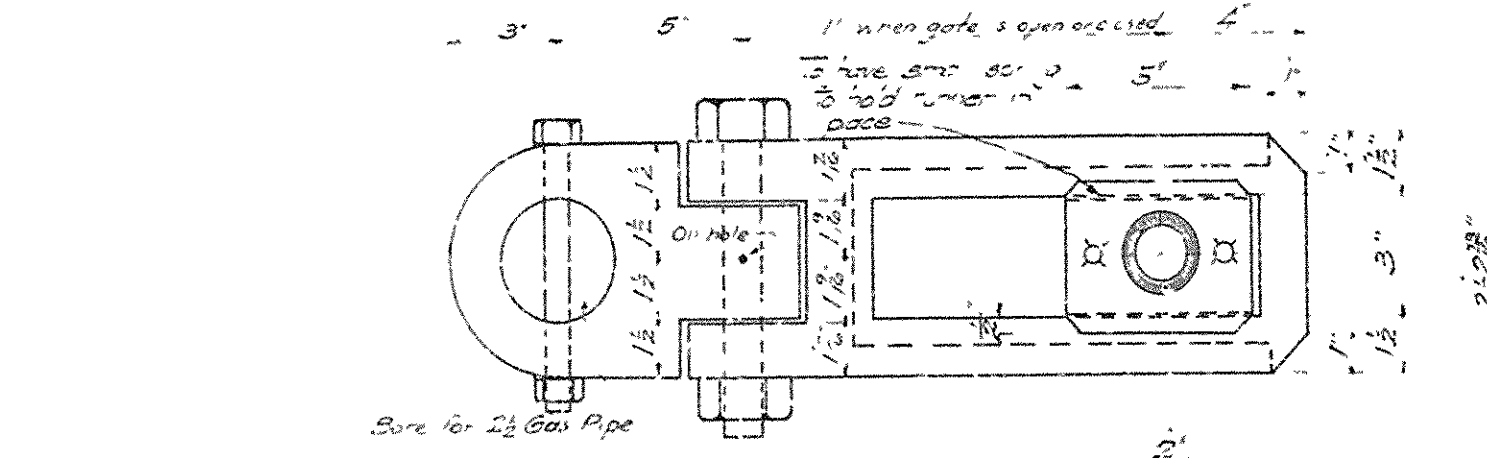
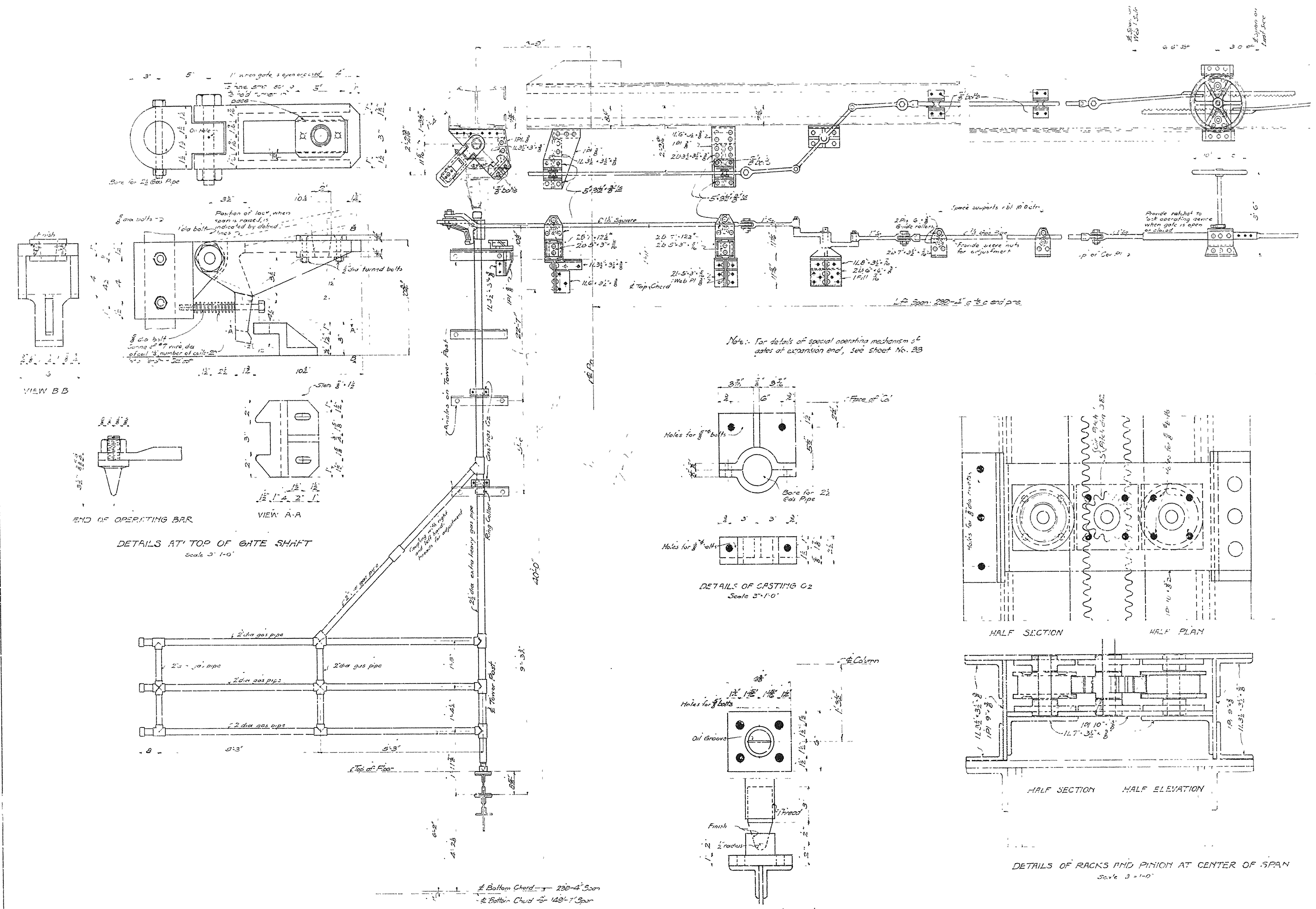


BRIDGE OVER ARKANSAS RIVER
NEAR PINE BLUFF, ARKANSAS
DETAILS OF HIGHWAY GATES
 Scale 3/16"=1'-0"

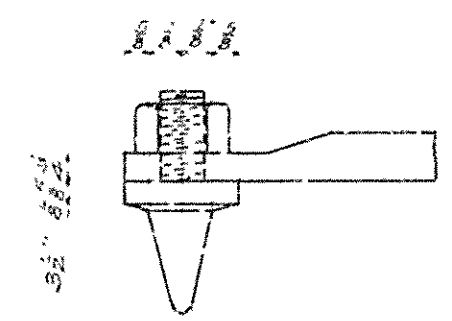
JEFFERSON COUNTY BRIDGE DISTRICT
 Made by ALU:HE:IM
 Checked by: A. H. S. J. H.
 Hedrick & Cochrane,
 Consulting Engineers
 Kansas City, Mo.

SHEET No 32A

BR. No. 2133 DRWG. No. 5962 HG-225



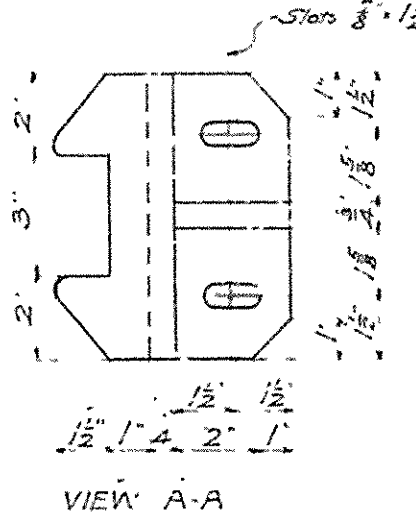
VIEW B-B



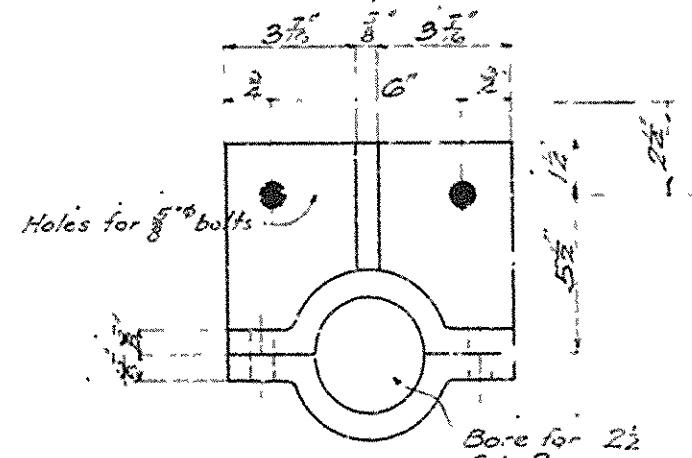
END OF OPERATING BAR

DETAILS AT TOP OF GATE SHAFT

Scale 3" = 1'-0"

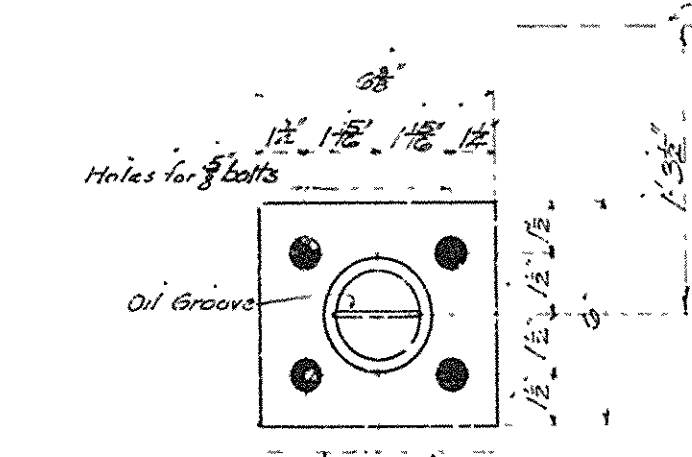


VIEW A-A



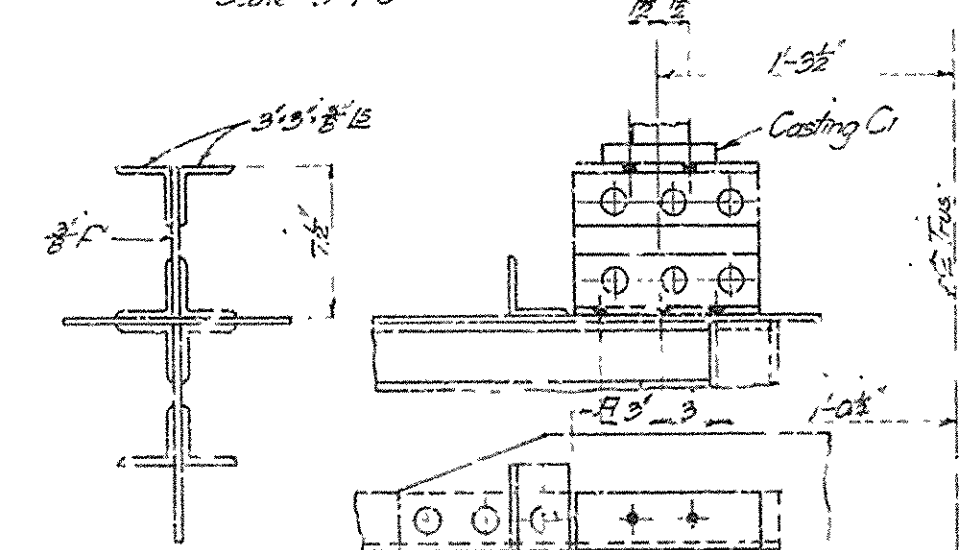
DETAILS OF CASTING G2

Scale 5" = 1'-0"



DETAILS OF CASTING G1

Scale 3" = 1'-0"

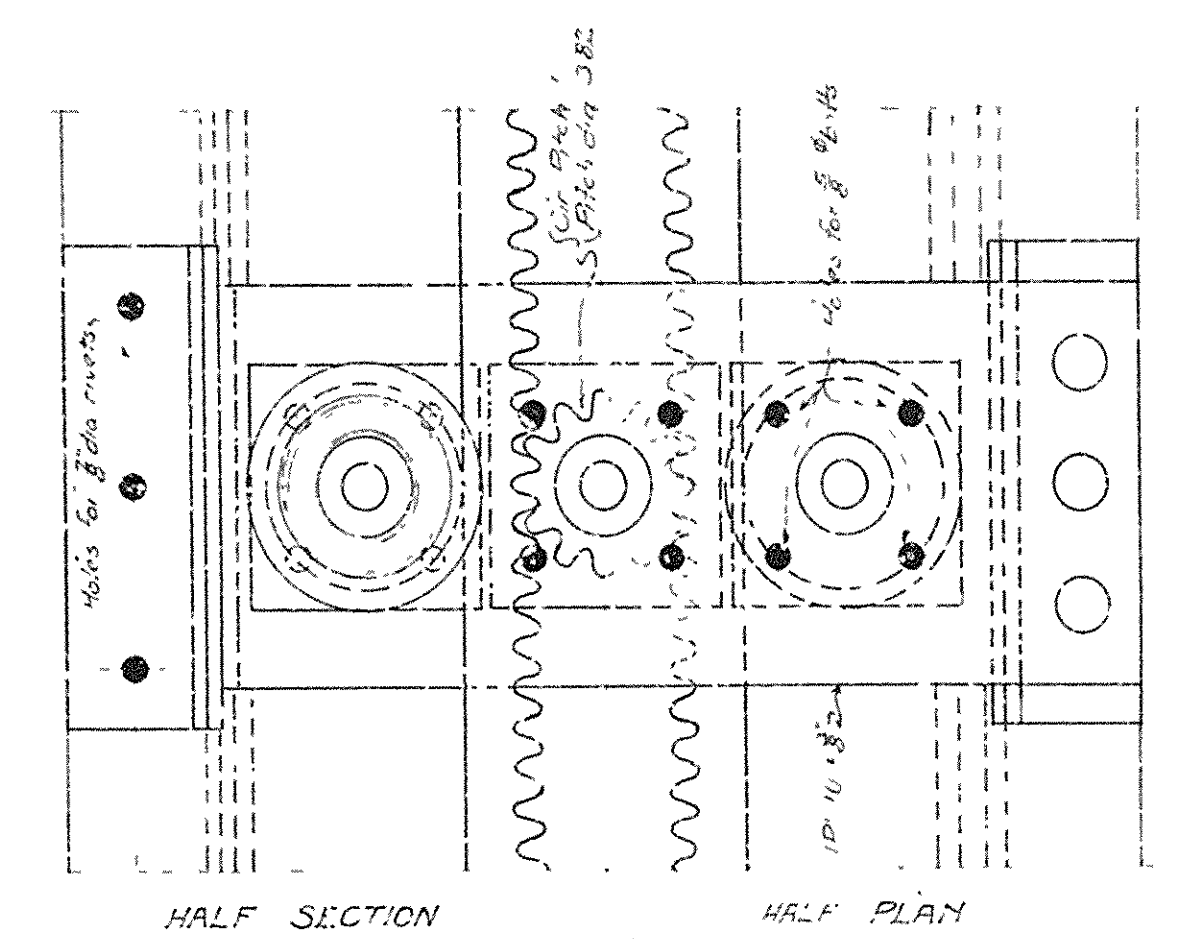


SECTION G-H

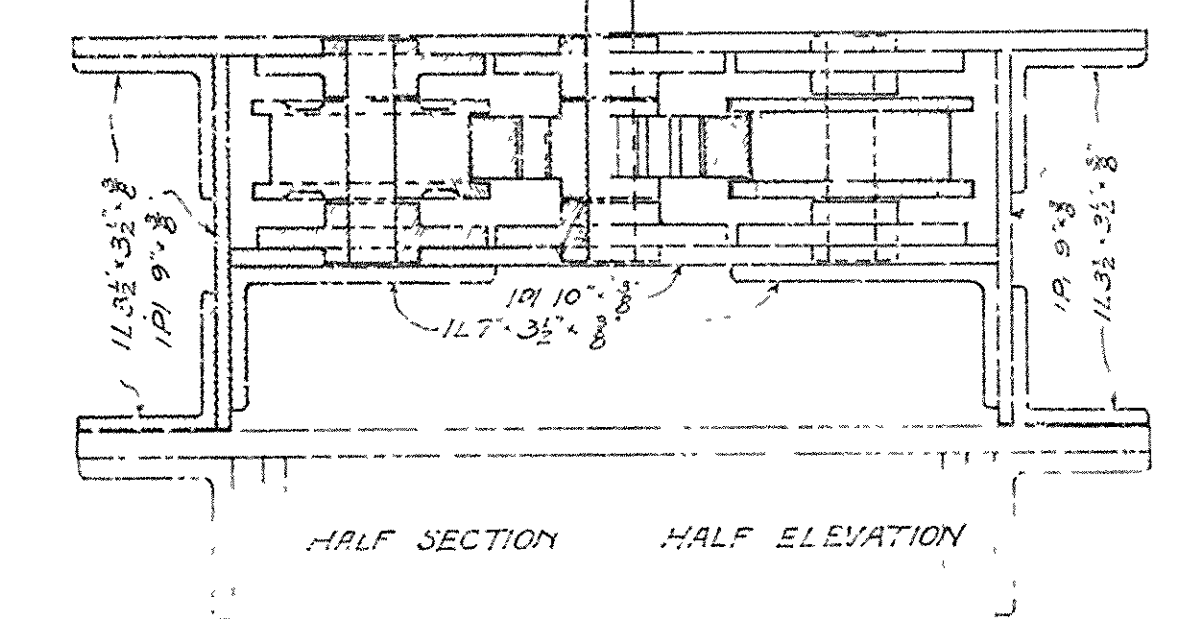
DETAILS OF SUPPORT FOR CASTING G1

Scale 1/2" = 1'-0"

Note: For details of special operating mechanism of gates at expansion end, see sheet No. 29



HALF SECTION HALF PLAN



HALF SECTION HALF ELEVATION

DETAILS OF RACKS AND PINION AT CENTER OF SPAN

Scale 3" = 1'-0"

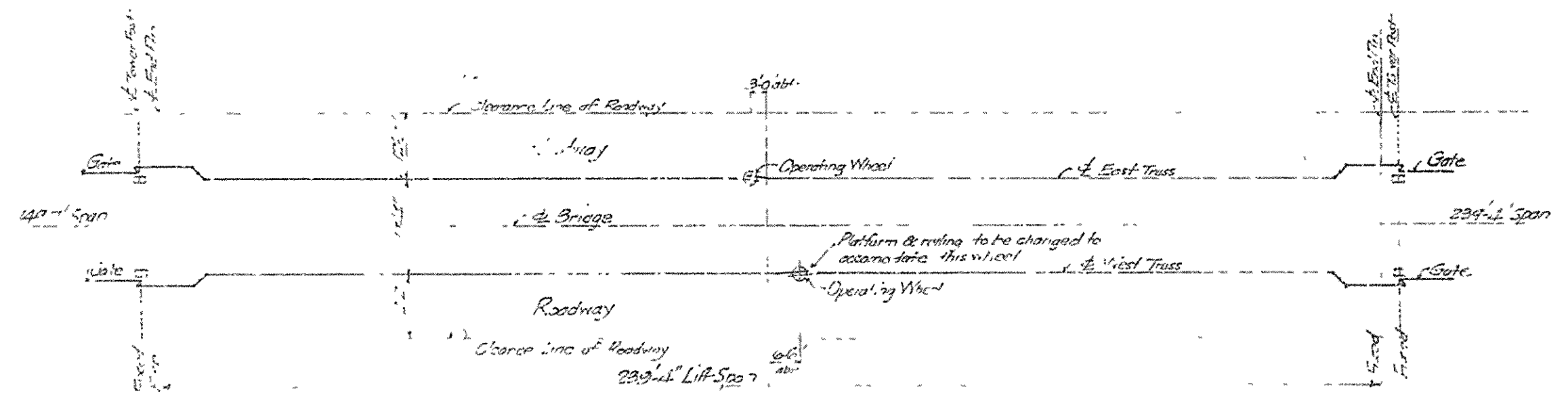
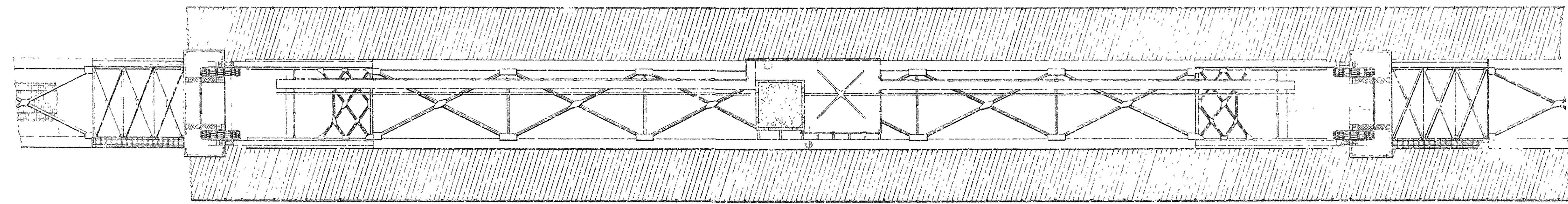
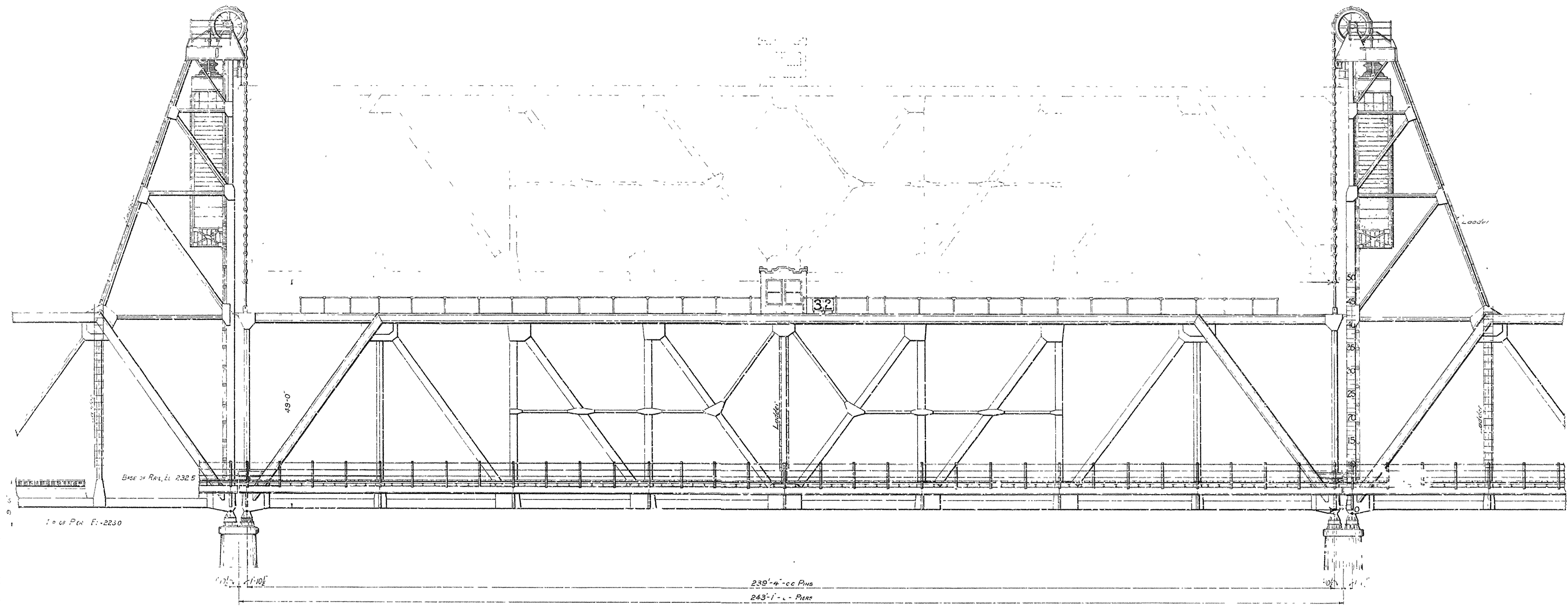


DIAGRAM SHOWING LOCATION OF GATES

BRIDGE OVER ARKANSAS RIVER
 NEAR PINE BLUFF, ARKANSAS
 DETAILS OF HIGHWAY GATES.
 Scale 2" = 1'-0" except as noted
 JEFFERSON COUNTY BRIDGE DISTRICT

Made & Drawn by W. J. B. 9-25-16
 Checked by
 Master B. C. Gentry, Engineer
 Conway, Kansas
 Kansas City, Mo.



BRIDGE OVER ARKANSAS RIVER

NEAR PINE BLUFF, ARKANSAS

LEFT SPAN AND MECHANISM FOR OPERATING SAME

Scale 1/2" = 1'-0"

JEFFERSON COUNTY BRIDGE DISTRICT

Made by: *W. J. ...*
 Traced by: *W. J. ...*
 Checked by: *W. J. ...*

Made by: *W. J. ...*
 Traced by: *W. J. ...*
 Checked by: *W. J. ...*

SHEET NO. 31

BUILT FOR
THE JEFFERSON COUNTY BRIDGE DISTRICT

COMPLETED 1915

DISTRICT COMMISSIONERS

W.D. HEARN, PRESIDENT

P.P. BYRD, VICE-PRES

E.A. HOWELL, SEC'Y

E.B. BLOOM

REVISED

A.W. NUNN

F.B. TOMLINSON

FELIX G. SMART

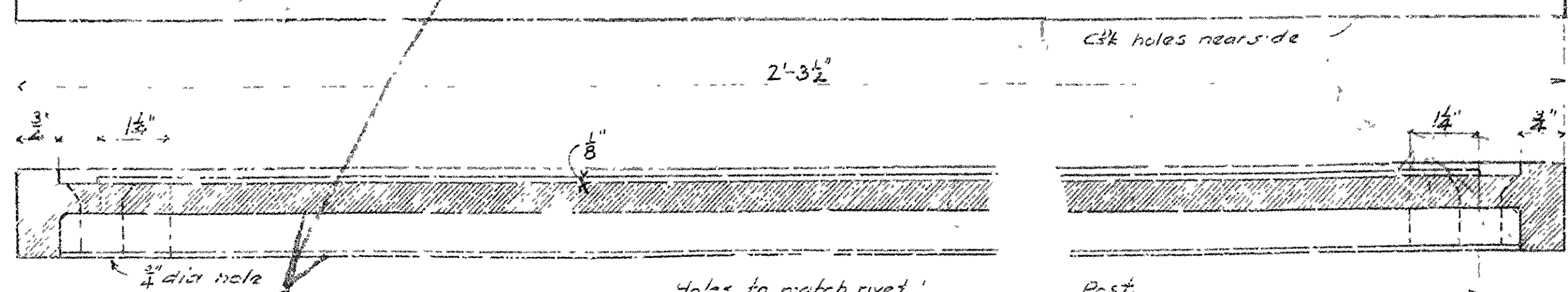
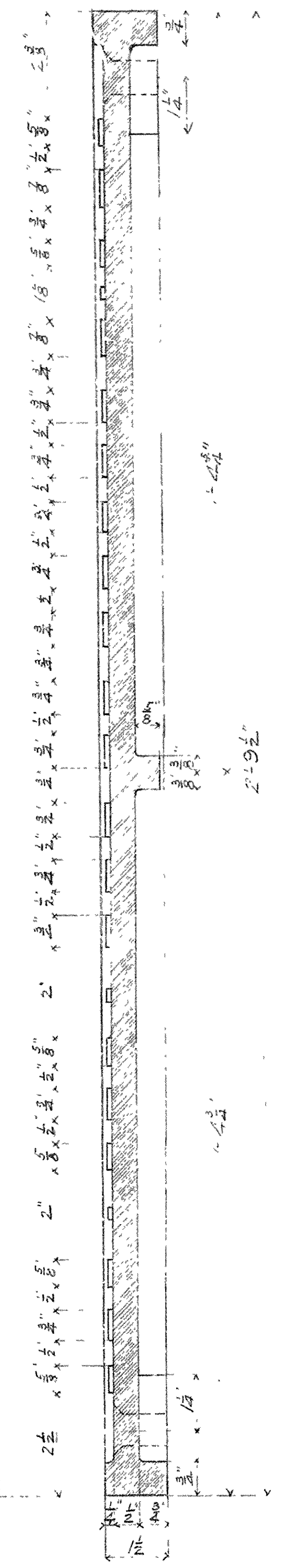
F.R. BLOOM, ASS'T SEC'Y

COLEMAN & GANTT } DISTRICT
DANAHER & DANAHER } ATTORNEYS

C.H. TRIPLETT } DISTRICT
R.N. BURKS } ASSESSORS
M.A. HUDSON }

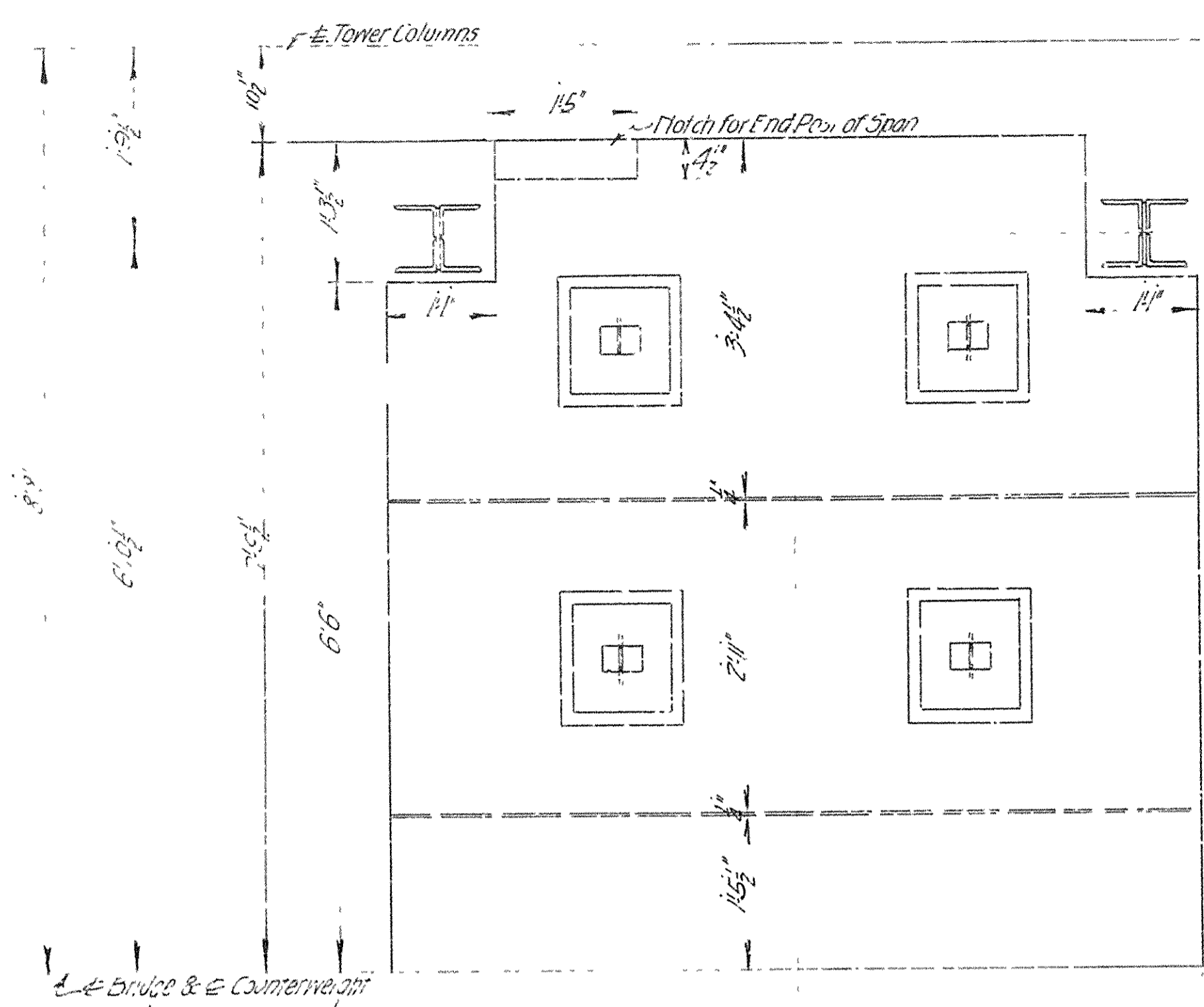
DESIGNED & SUPERVISED BY
HEDRICK & COCHRANE
CONSULTING ENGINEERS, KANSAS CITY, MO.

BUILT BY
THE MISSOURI VALLEY BRIDGE & IRON CO.
LEAVENWORTH, KANSAS.

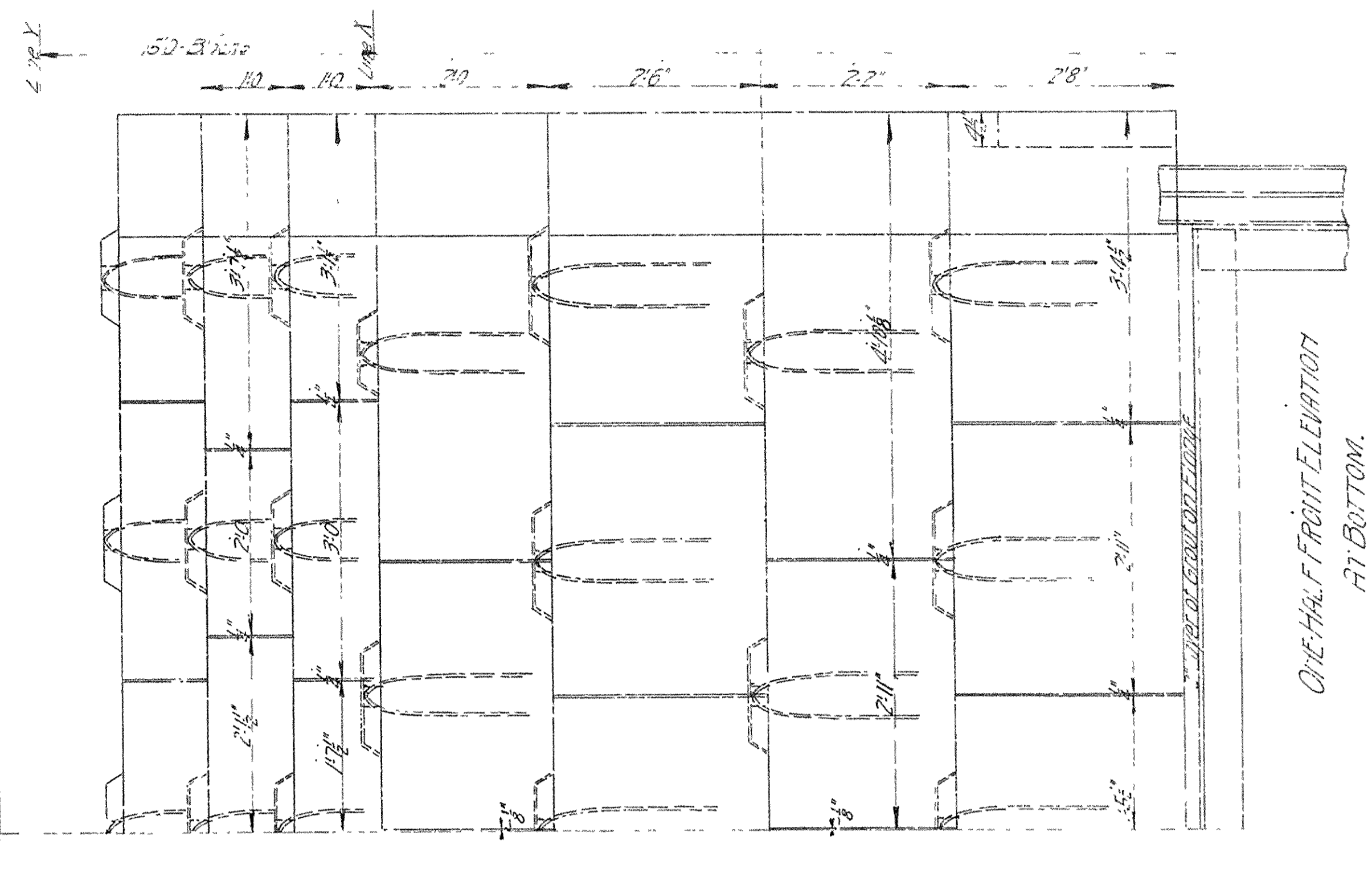


BRIDGE OVER ARKANSAS RIVER
NEAR PINE BLUFF ARK.
DETAILS OF NAME PLATE
Scale - Half Size
Hedrick & Cochrane
Consulting Engineers
Kansas City Mo
3-21-14

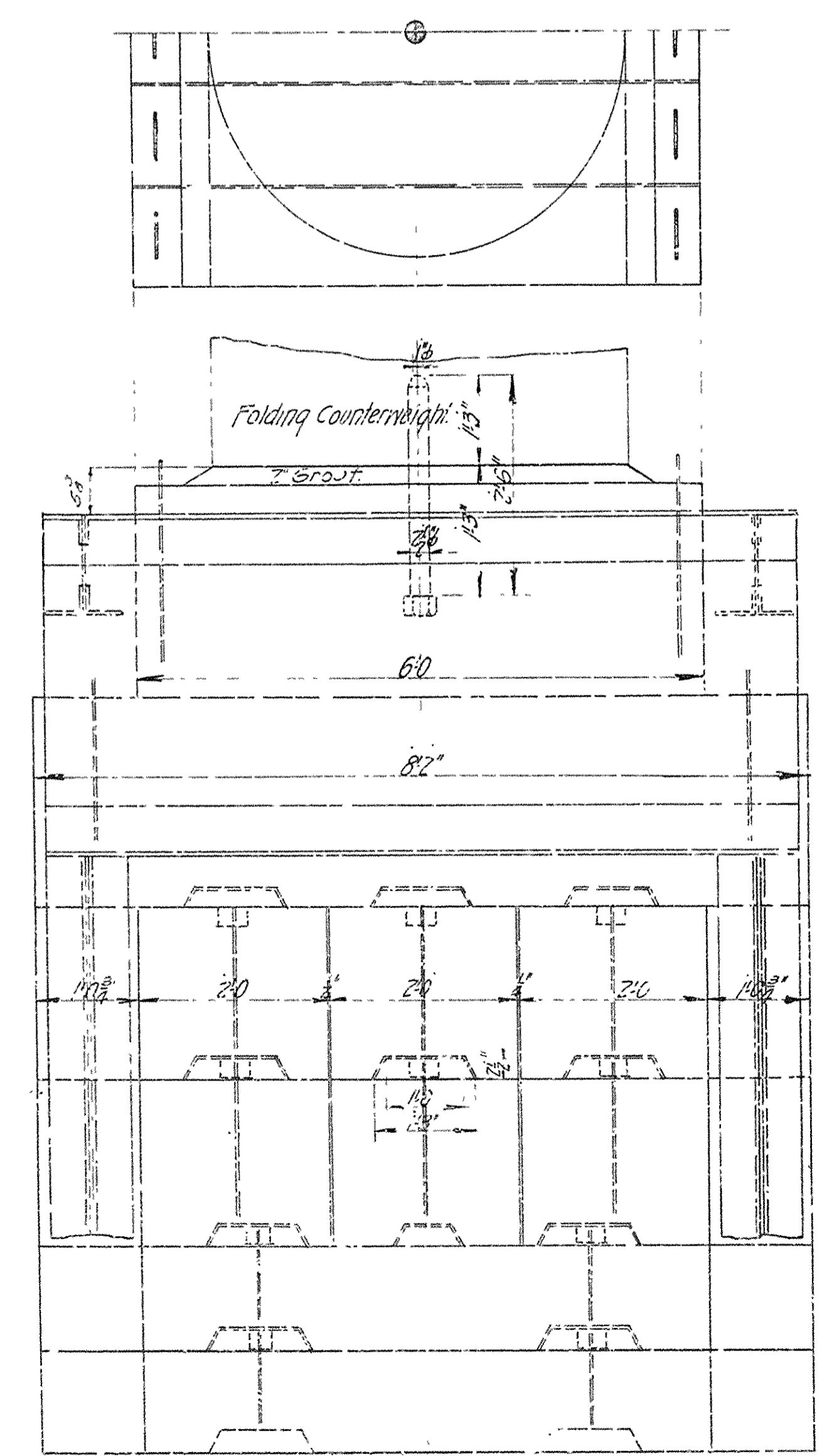
2 CAST IRON NAME
Note Back ground
on size of
Letters to proj.



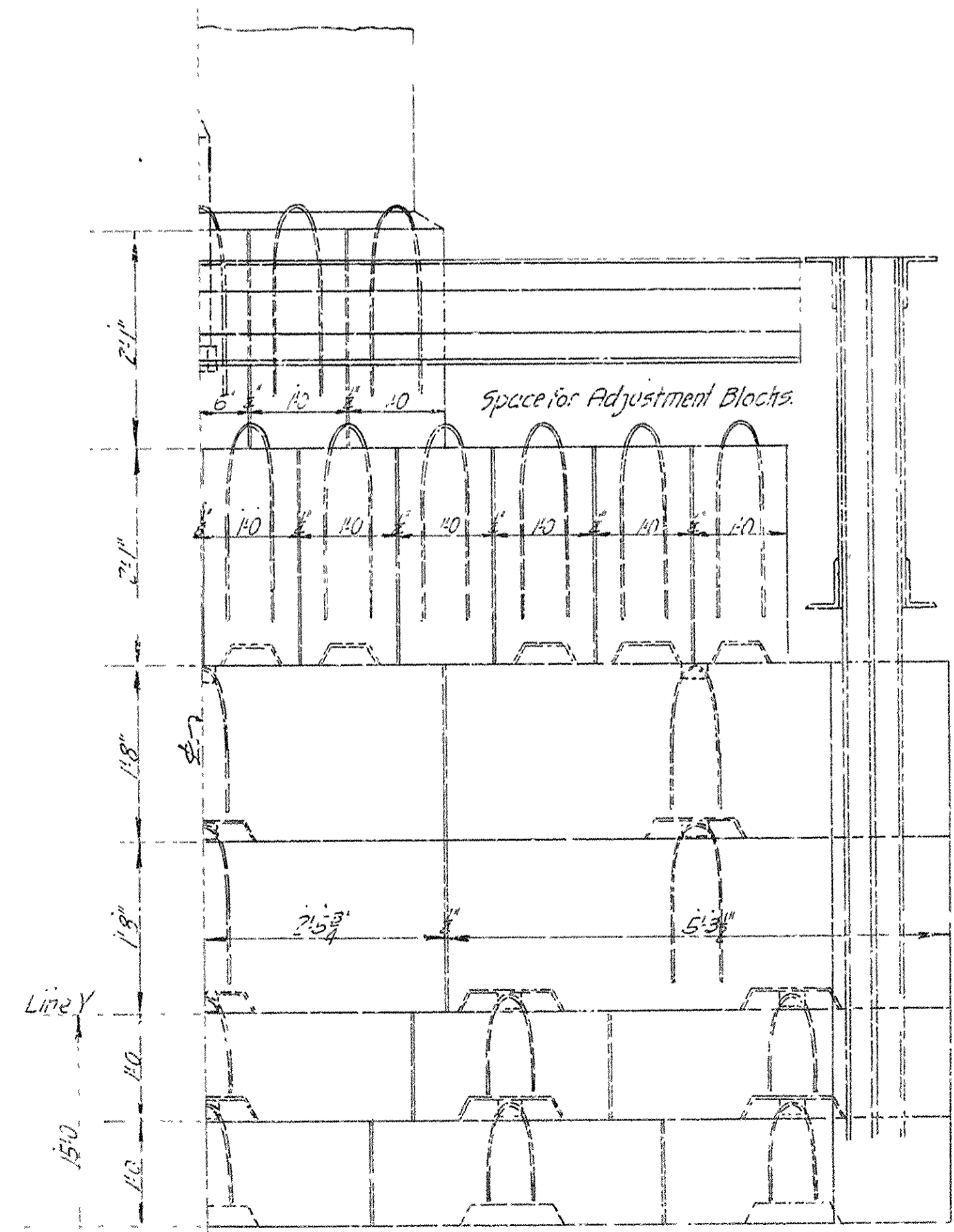
PLAN OF ONE-HALF BOTTOM LAYER OF BLOCKS.



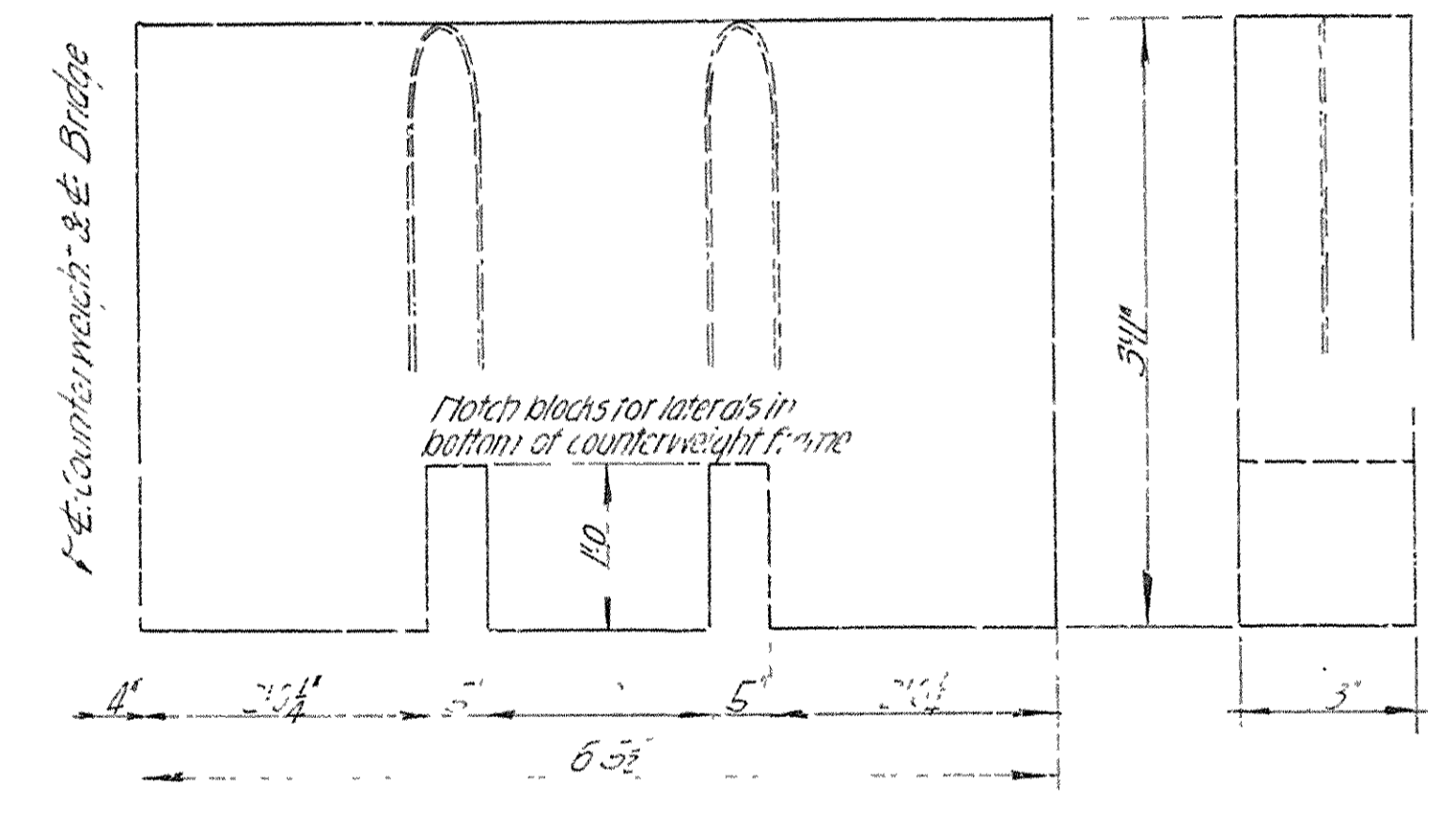
ONE-HALF FRONT ELEVATION AT BOTTOM.



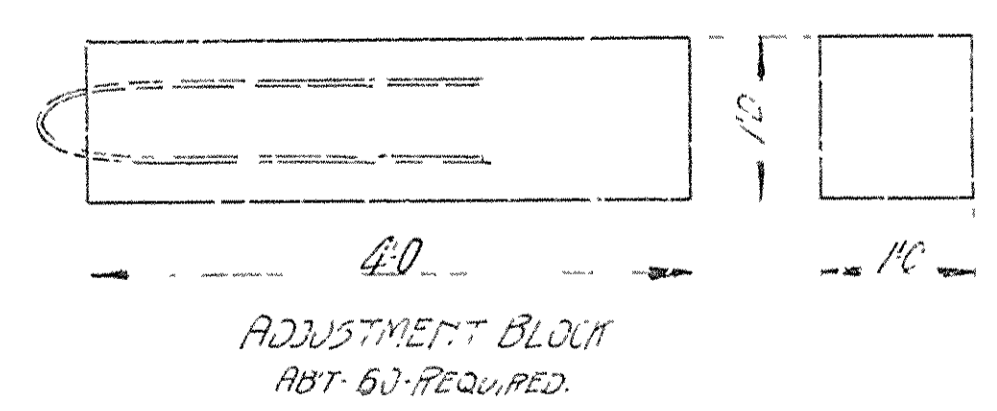
END ELEVATION AT TOP.



ONE-HALF FRONT ELEVATION AT TOP.

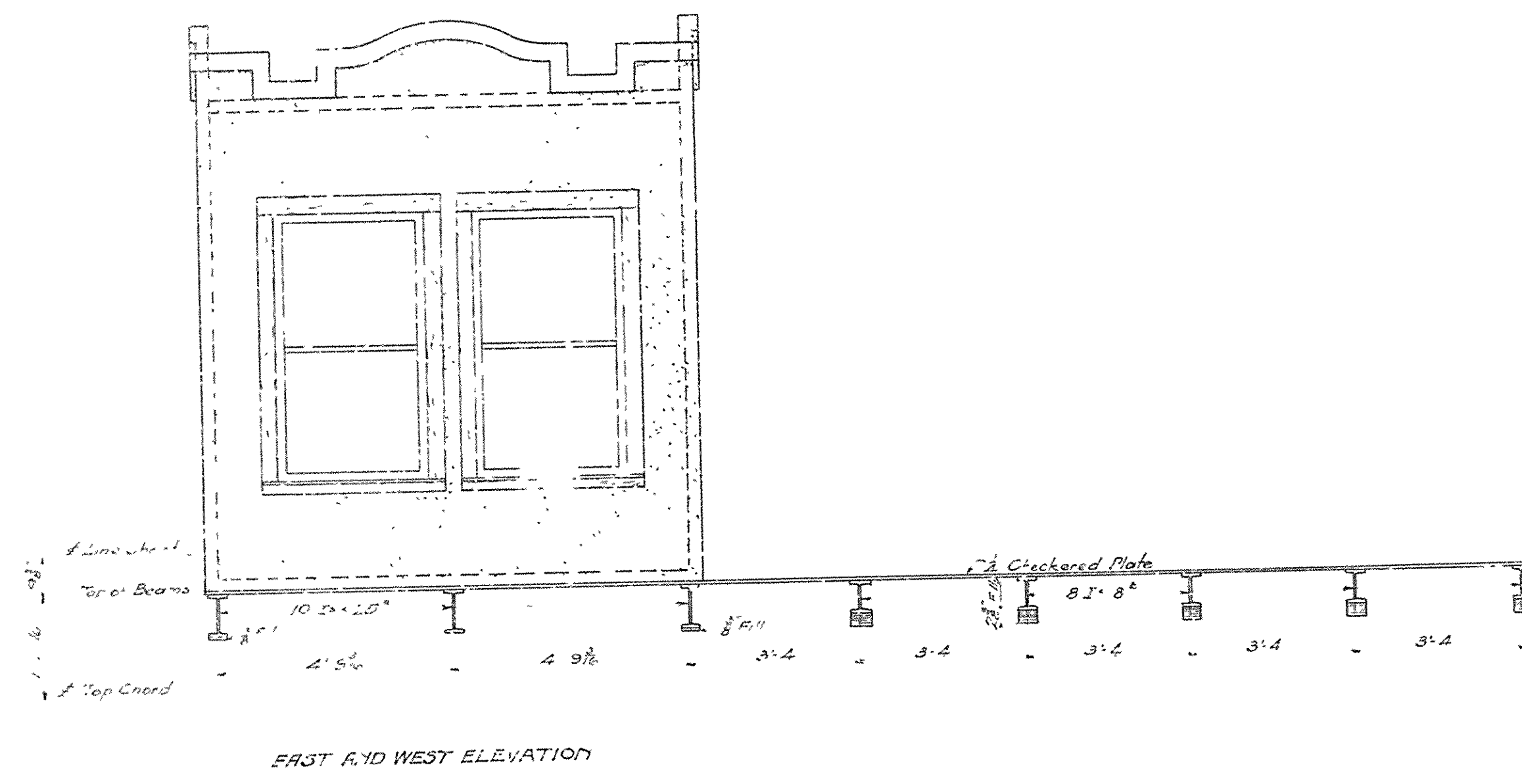


BLOCKS BETWEEN LOWER GIRDERS & COUNTERWEIGHT FRAME
8 REQUIRED.

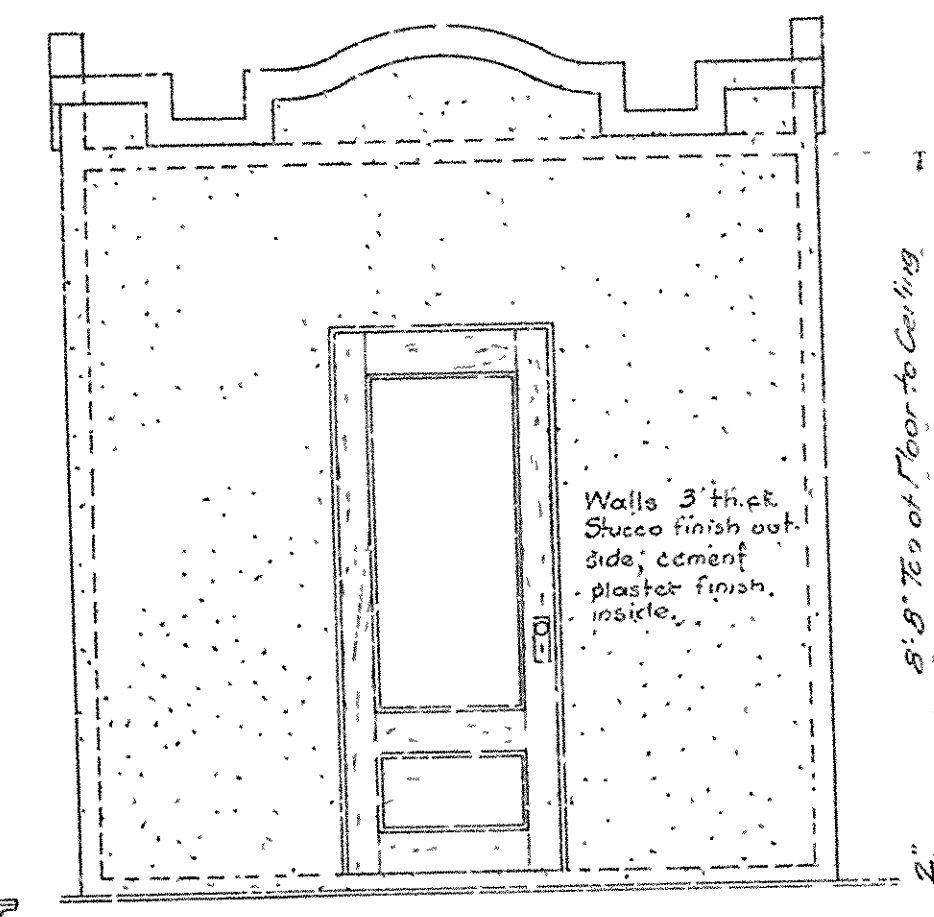


BRIDGE OVER ARKANSAS RIVER
NEAR PINE BLUFF, ARKANSAS.
DETAILS OF CONCRETE BLOCK COUNTERWEIGHT
Scale - 1" = 1'-0"
JEFFERSON COUNTY BRIDGE DISTRICT

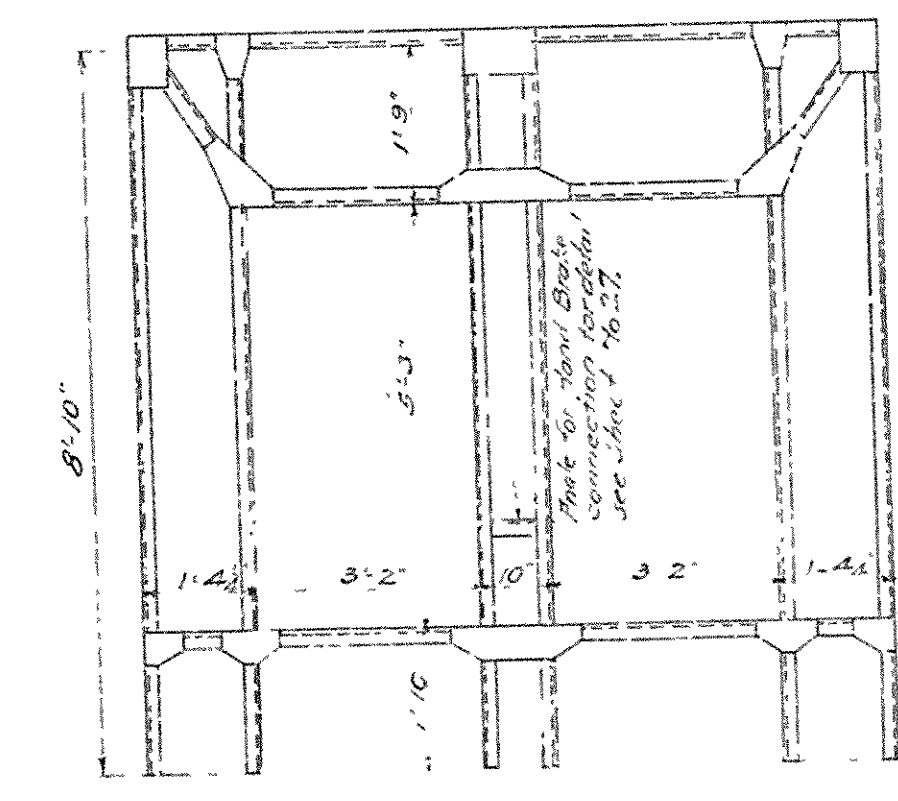
Wm. A.K.B. Traced by O.W.A. Checked by A.H.W. 3/21/14
Wadsworth & Cochrane Consulting Engineers Wadsworth, Mo.



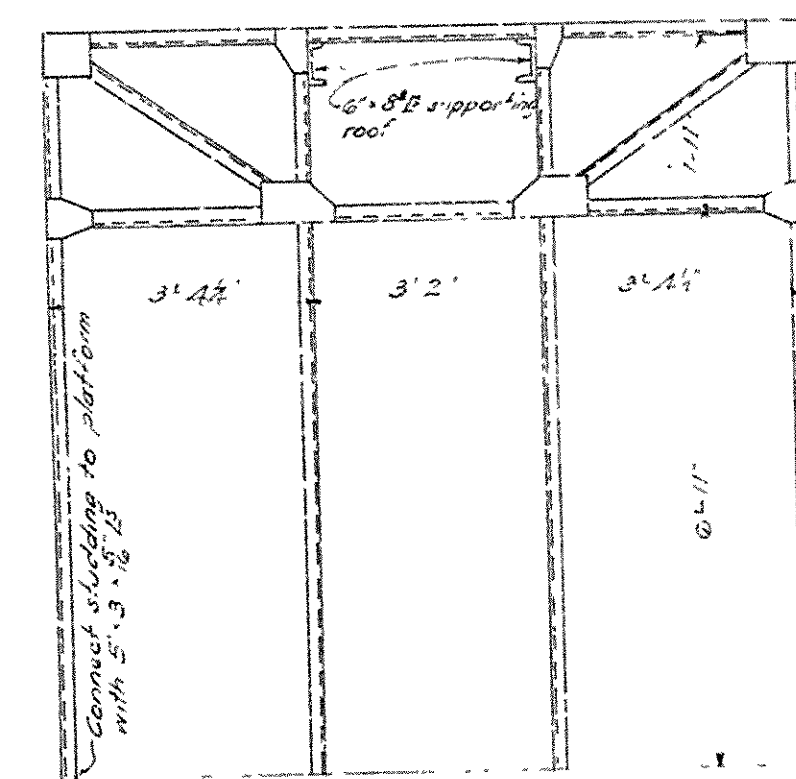
EAST AND WEST ELEVATION



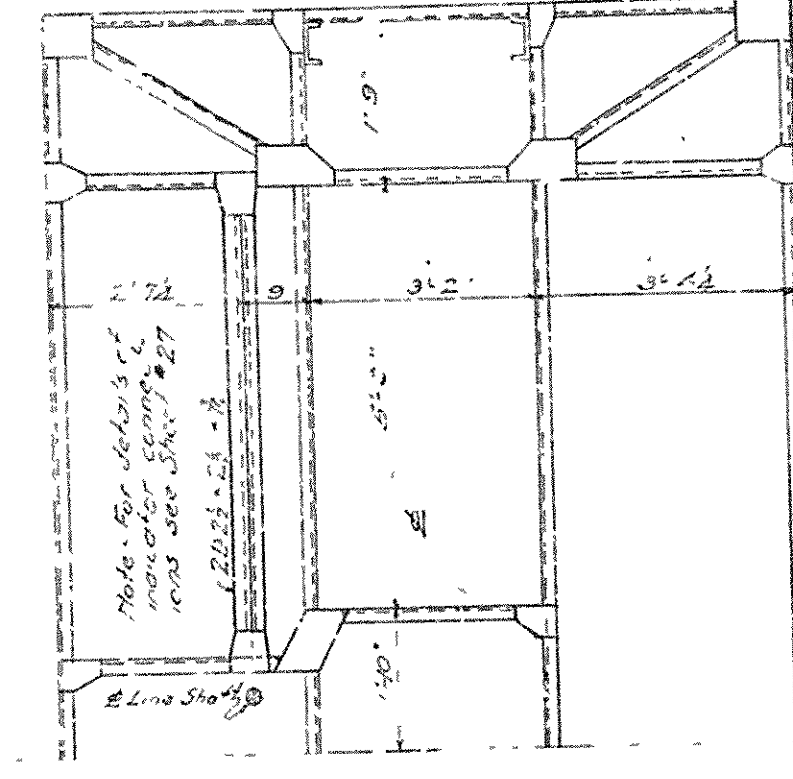
SOUTH ELEVATION
Note: North Elevation to have one window in center. Window to be the same size as in East and West Walls.



FRAMING FOR EAST & WEST WALLS

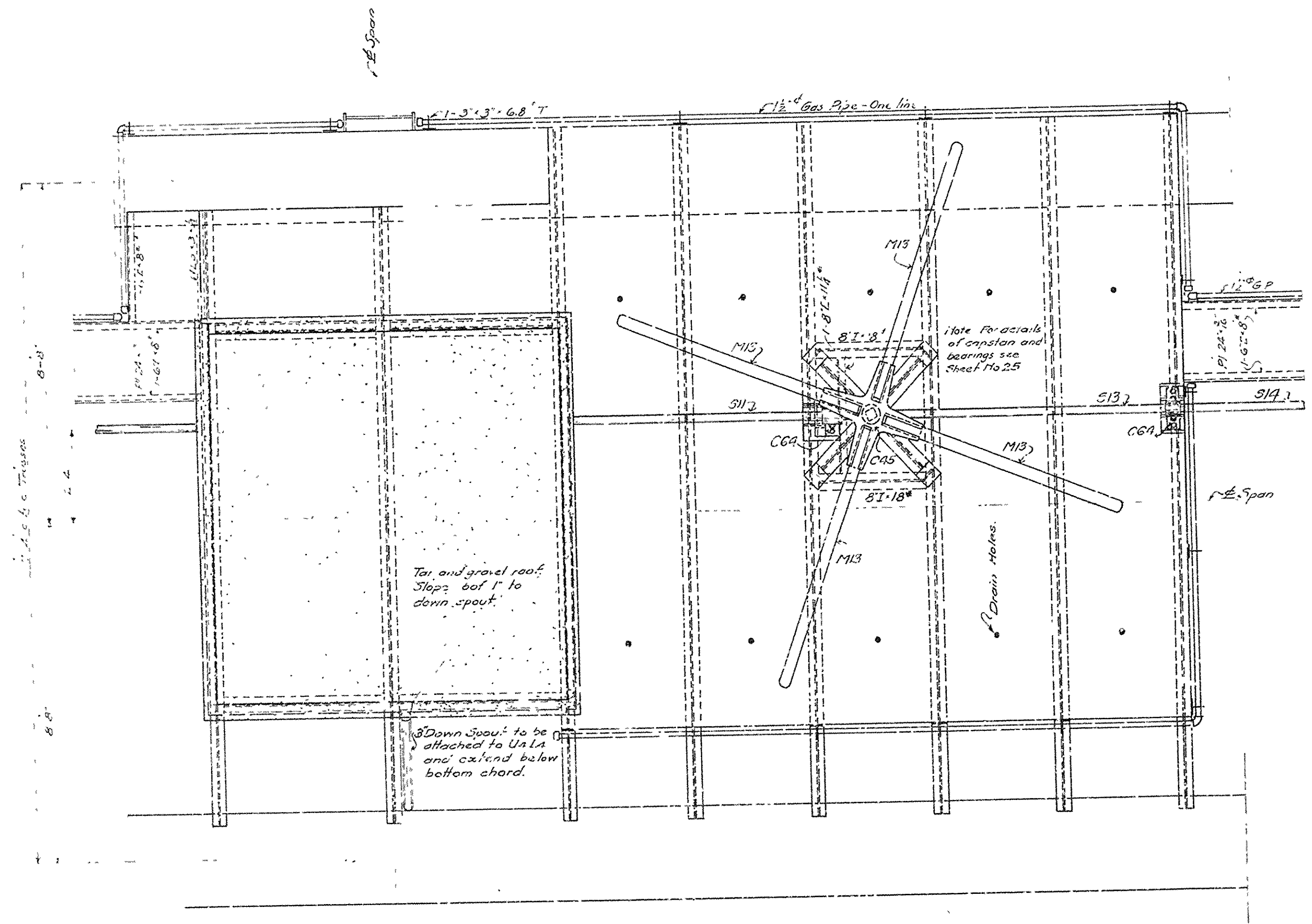


FRAMING FOR SOUTH WALL

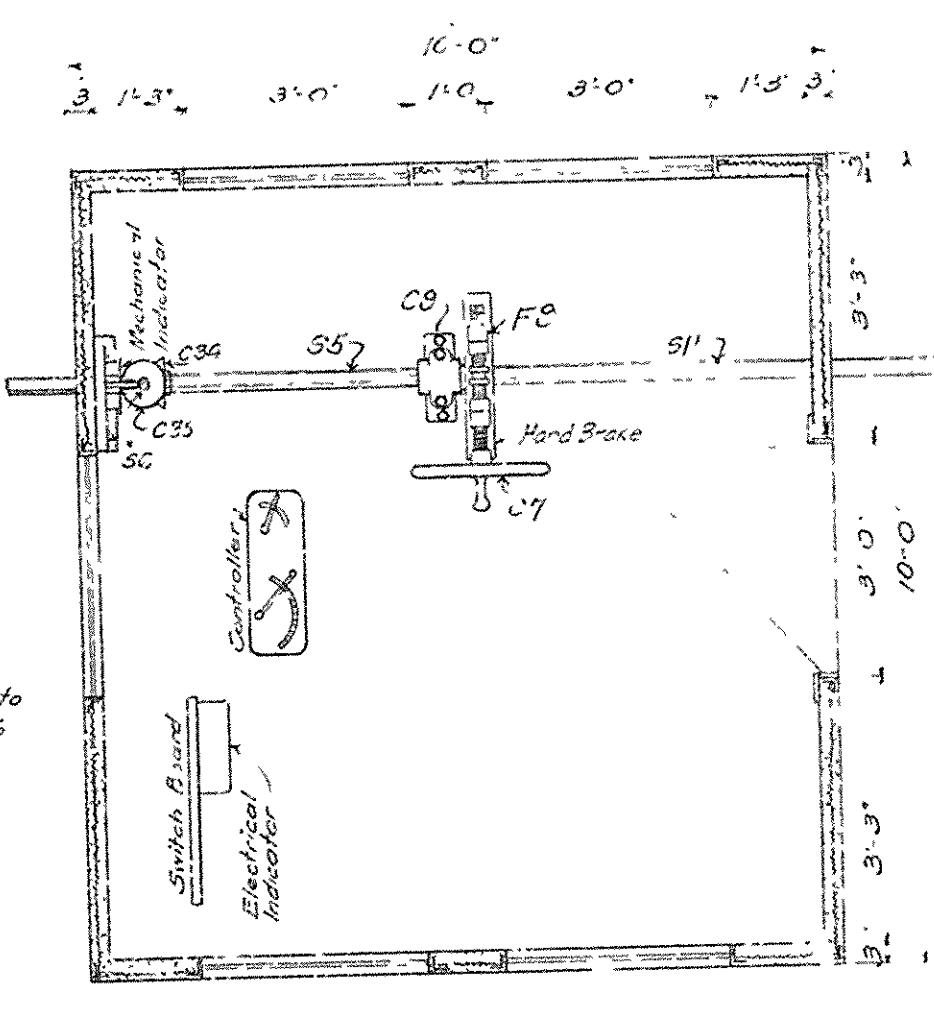
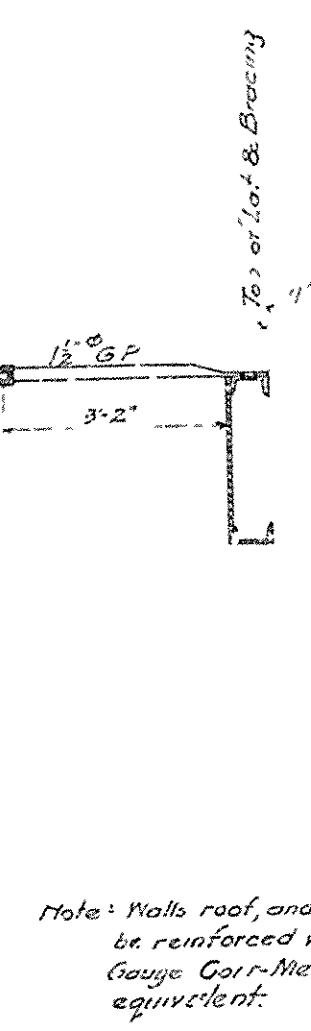


FRAMING FOR NORTH WALL

Note: All angles to be 2"-2" except as noted. All connect plates to be 2" thick.



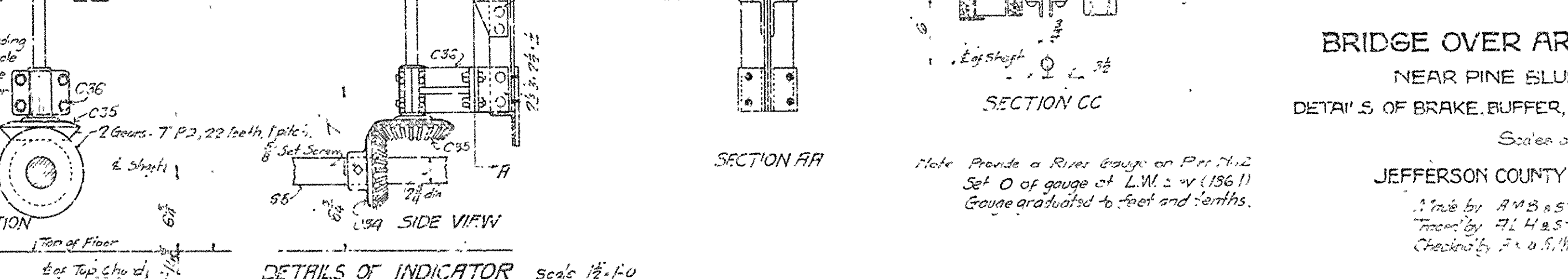
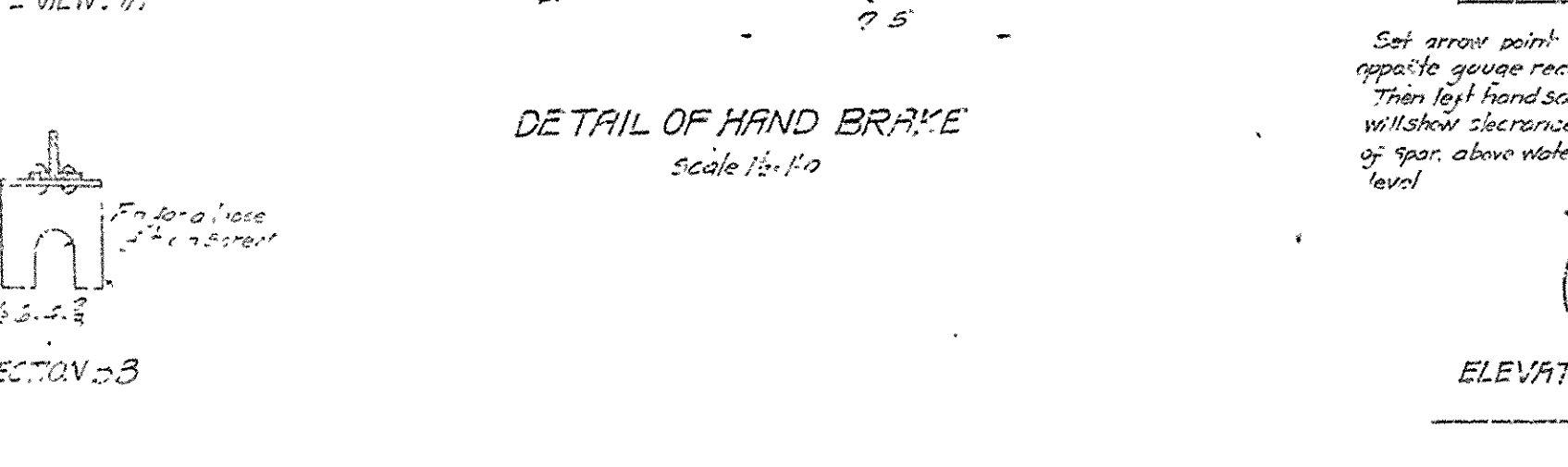
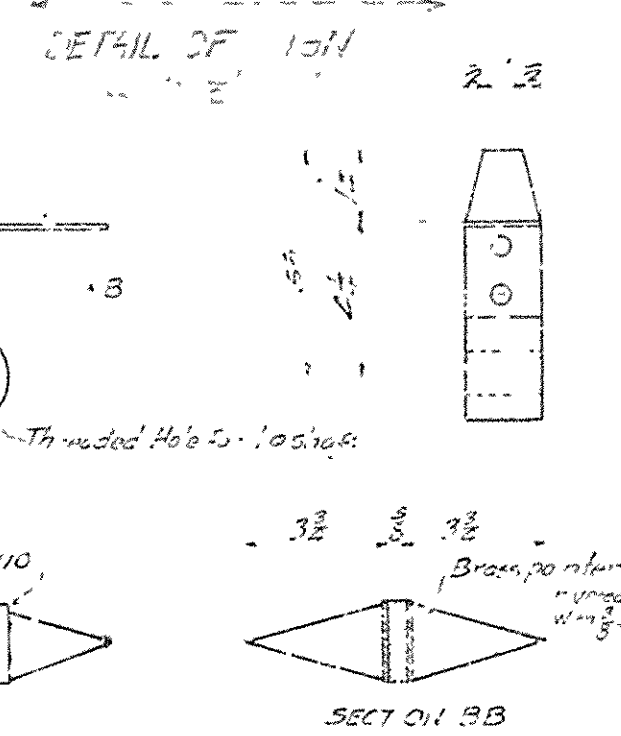
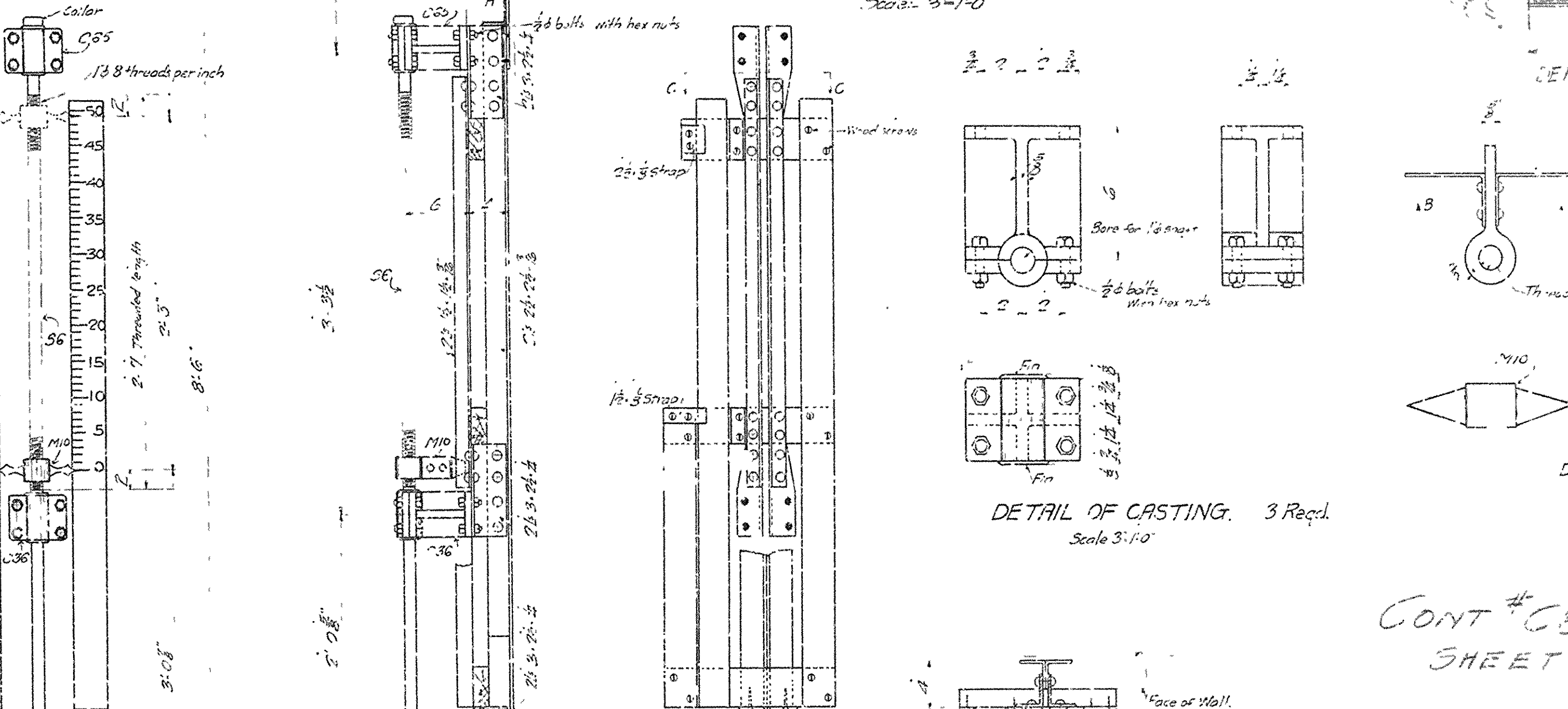
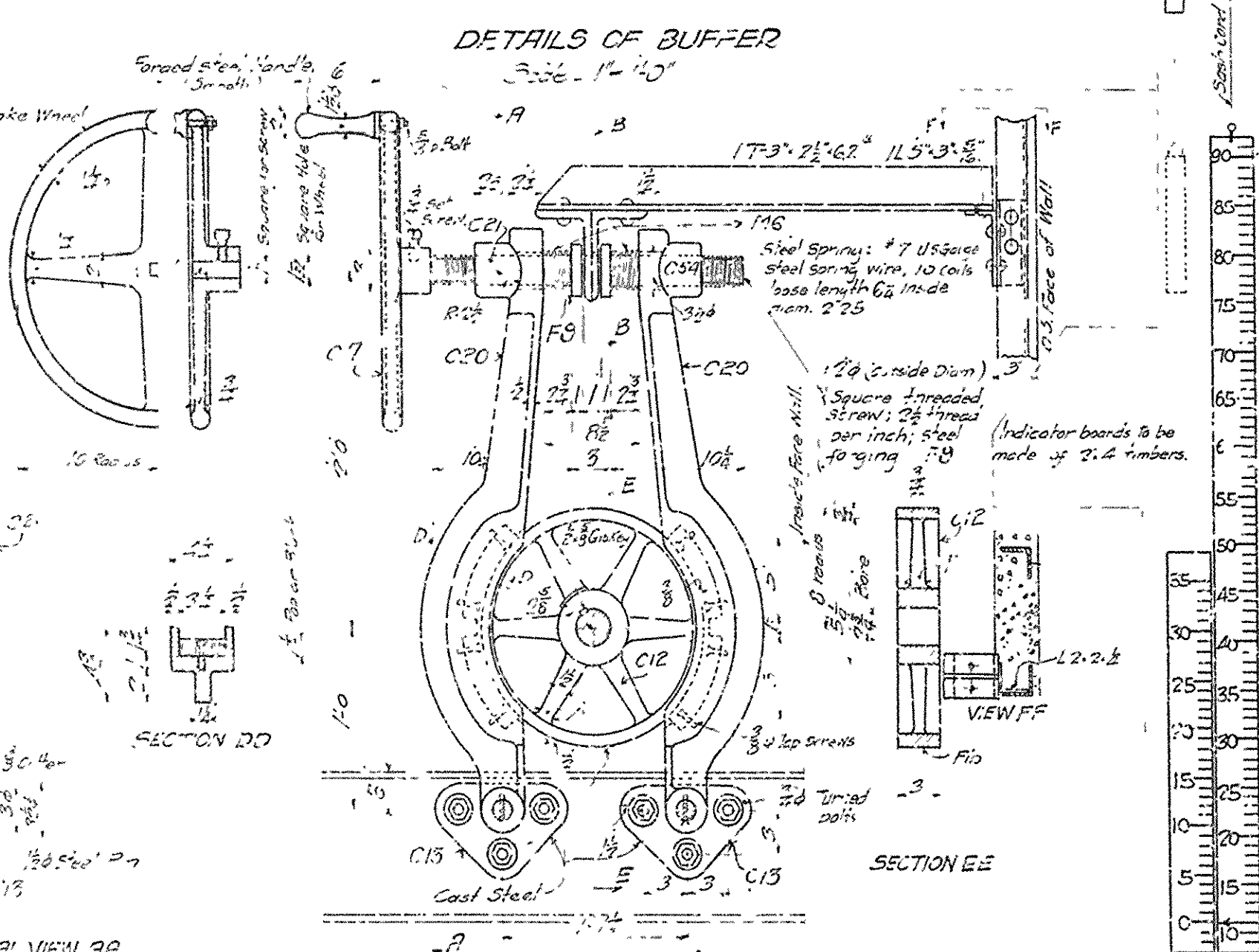
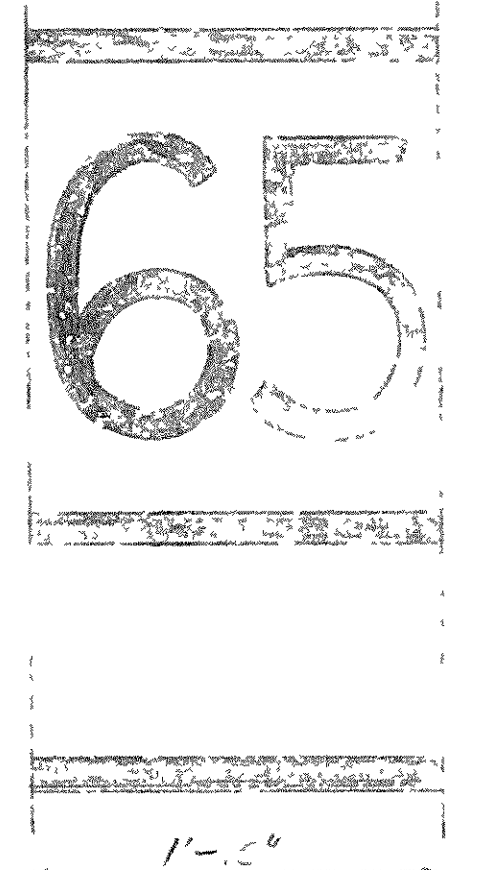
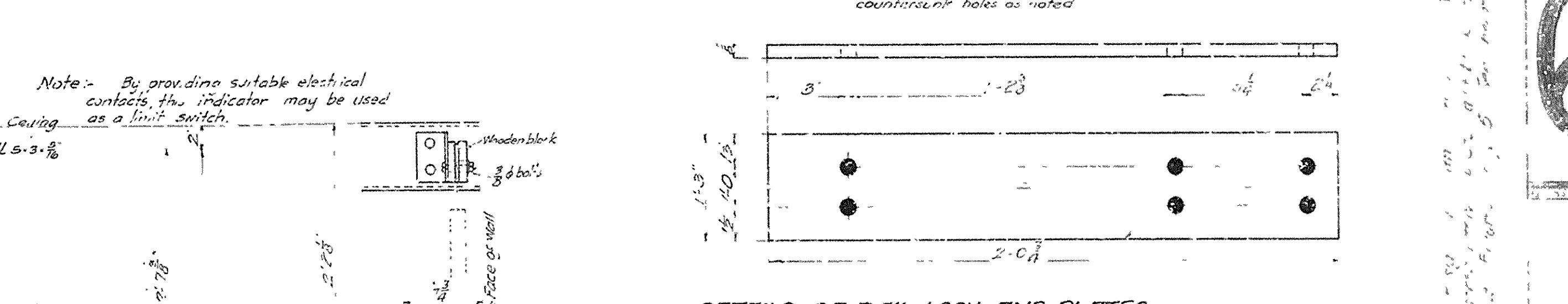
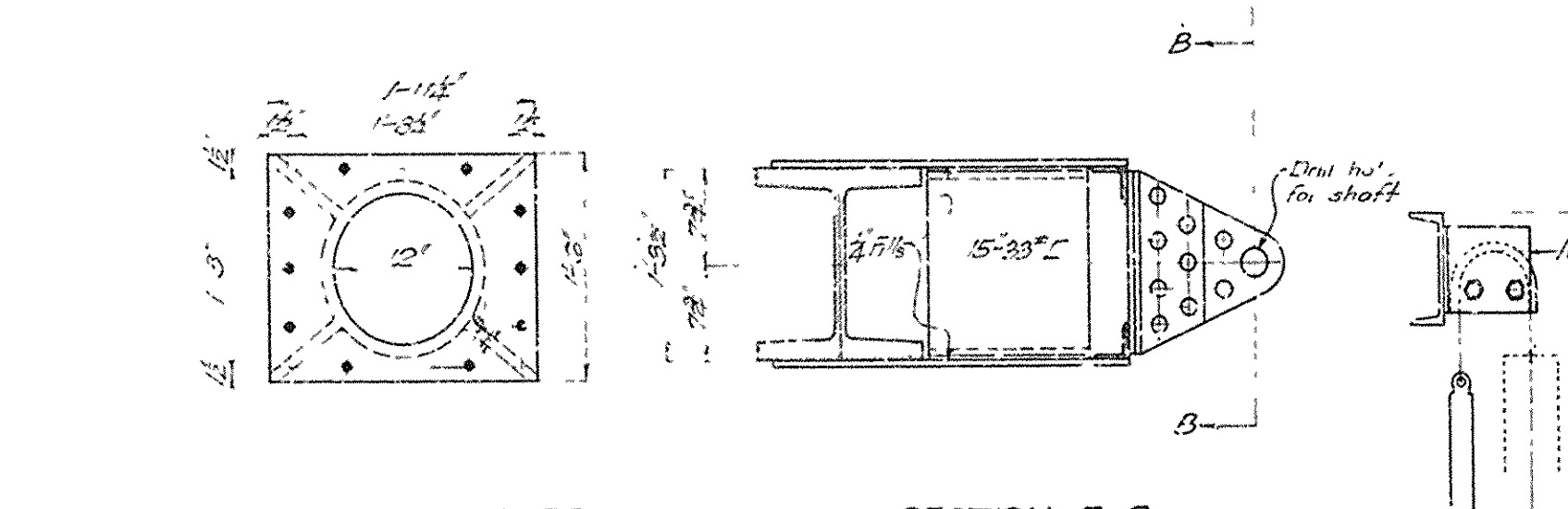
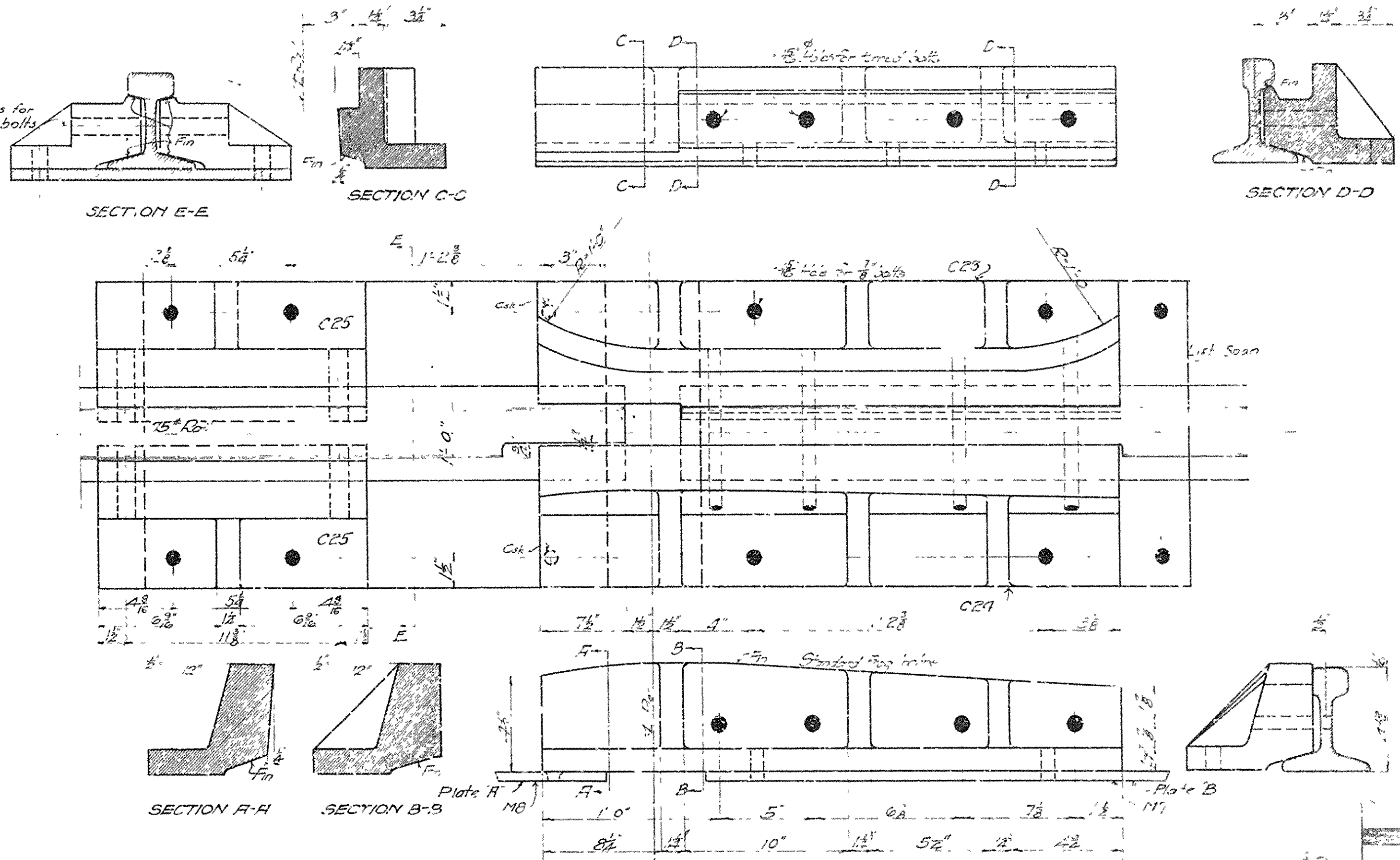
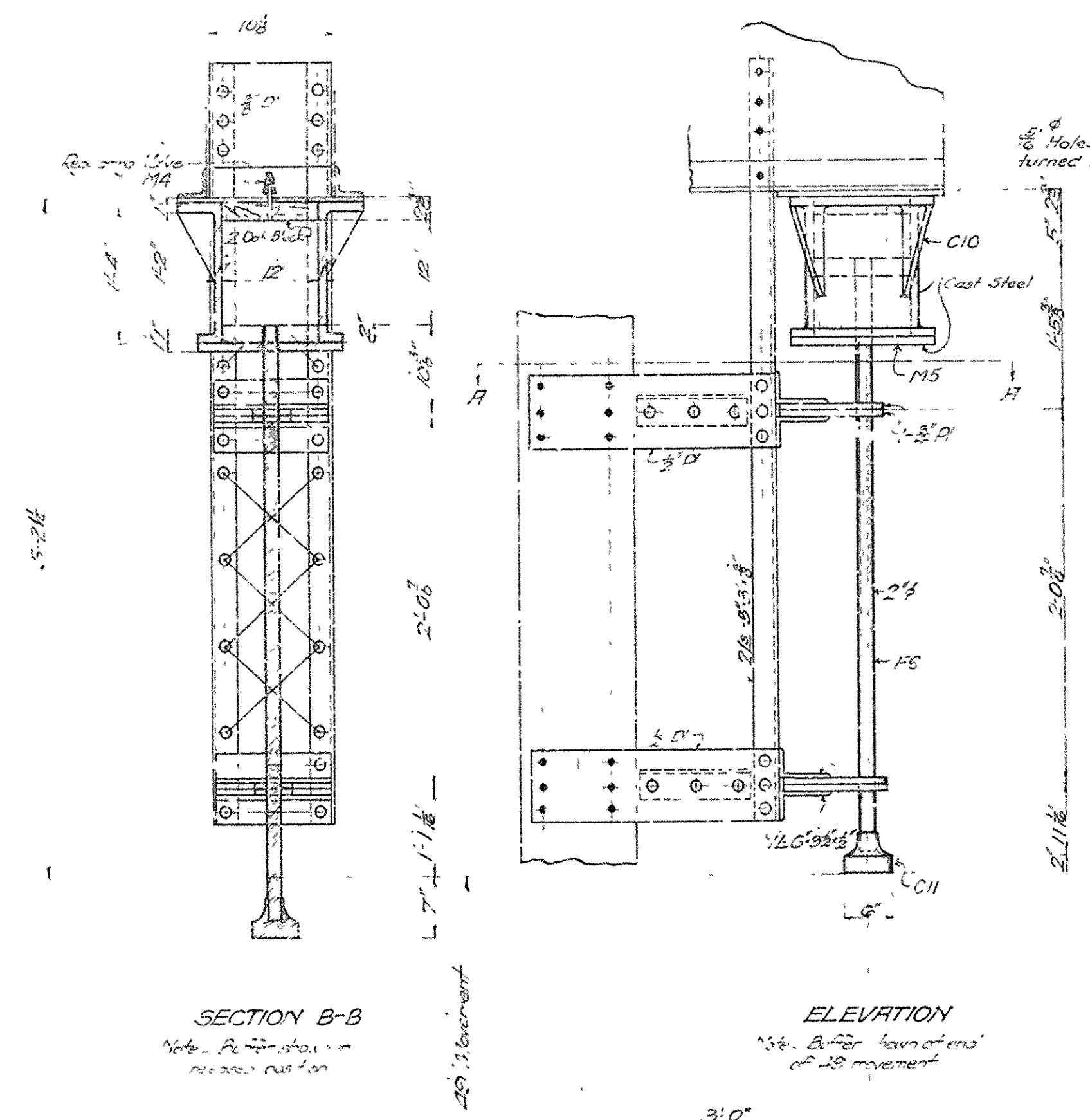
PLAN



SECTIONAL PLAN OF HOUSE

COIT 659
SHEET # EG

BRIDGE OVER ARKANSAS RIVER
NEAR PINE BLUFF, ARKANSAS
OPERATOR'S HOUSE
Scale 1/4" = 1'-0"
JEF 'ERSON COUNTY BRIDGE DISTRICT
Made by E.H.M. 3-24, Hildreth R. Lockman
Traced by W. B. H. Condit, H. L. Lark
Checked by R. K. 7-8-14, K. H. Lark, H. L. Lark

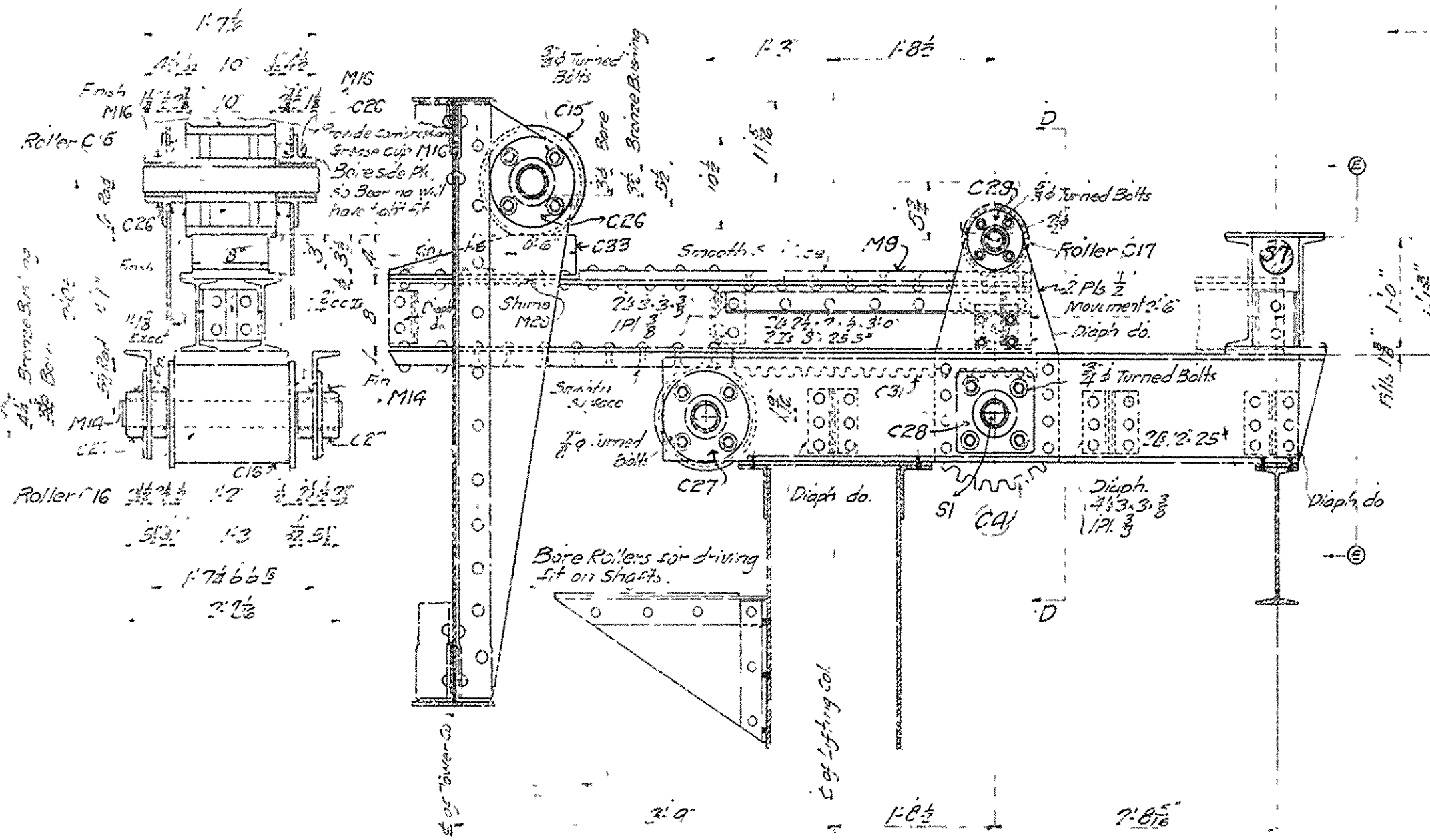
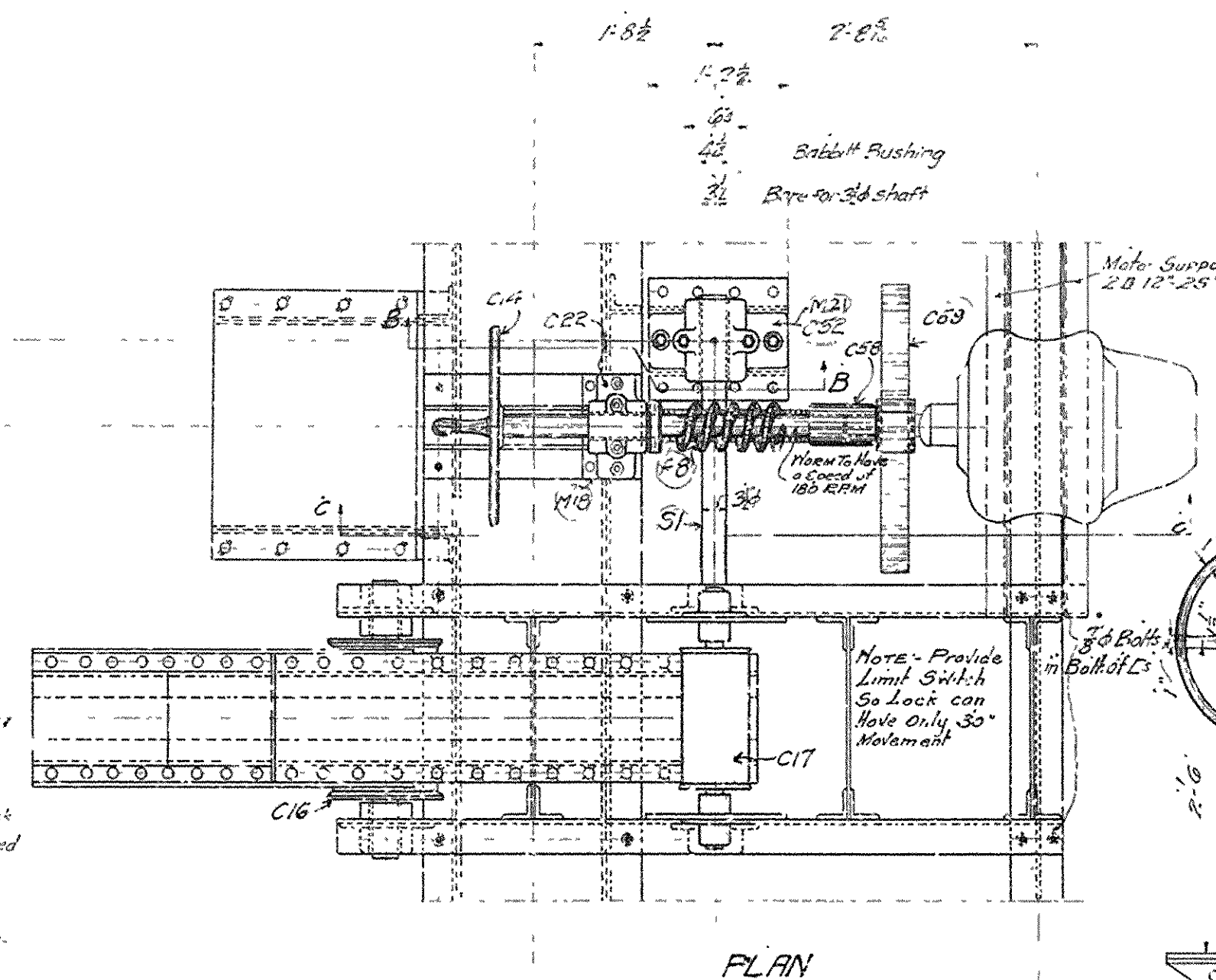


DETAIL OF CASTING, 3 Reqd.
Scale: 3/4"=1'-0"

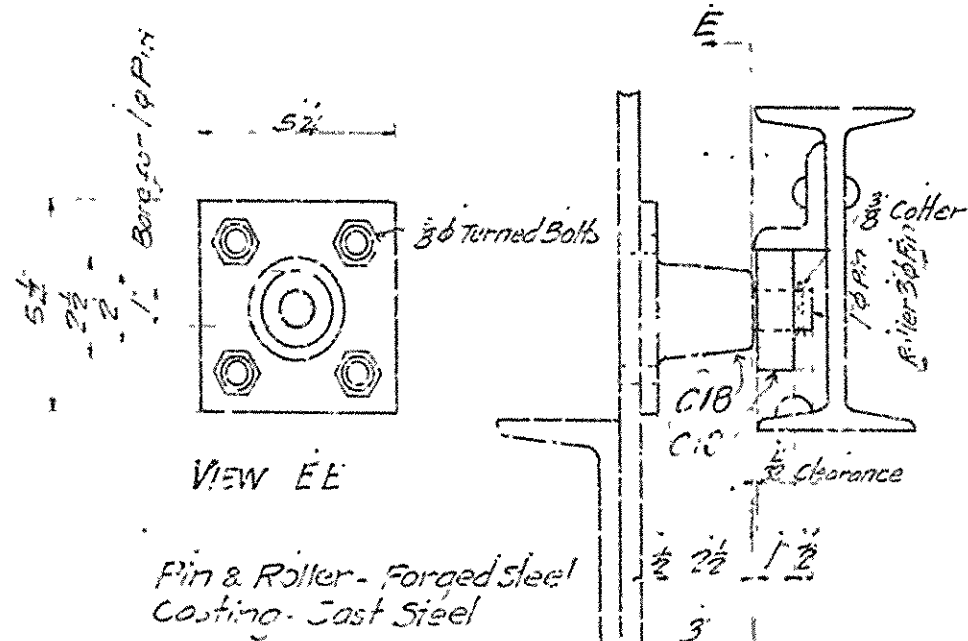
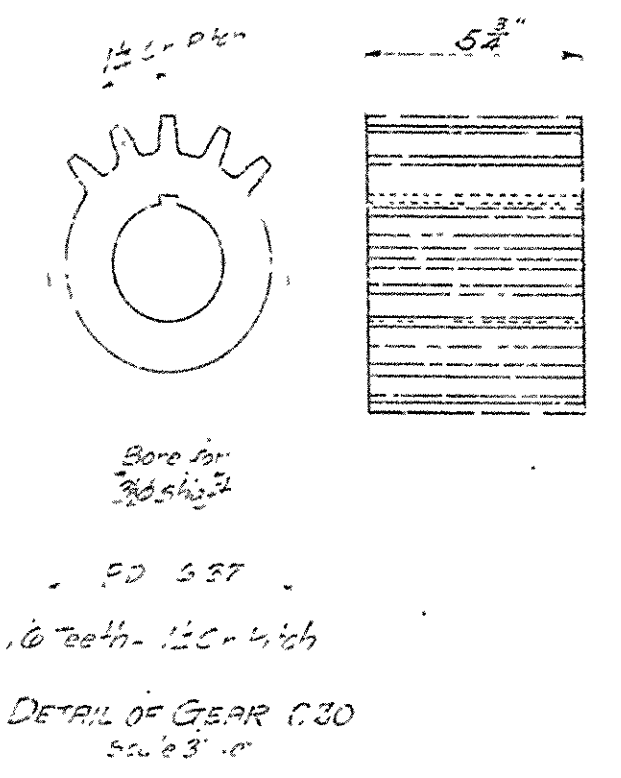
CONT # CBGDS
SHEET # E5

BRIDGE OVER ARKANSAS RIVER
NEAR PINE BLUFF, ARKANSAS
DETAILS OF BRAKE, BUFFER, INDICATOR AND RAIL LOCK
Scale as shown
JEFFERSON COUNTY BRIDGE DISTRICT
Drawn by A.M.B. & S. H. H. & S. T.
Checked by F. O. S. & S. T.
SHEET No. 27

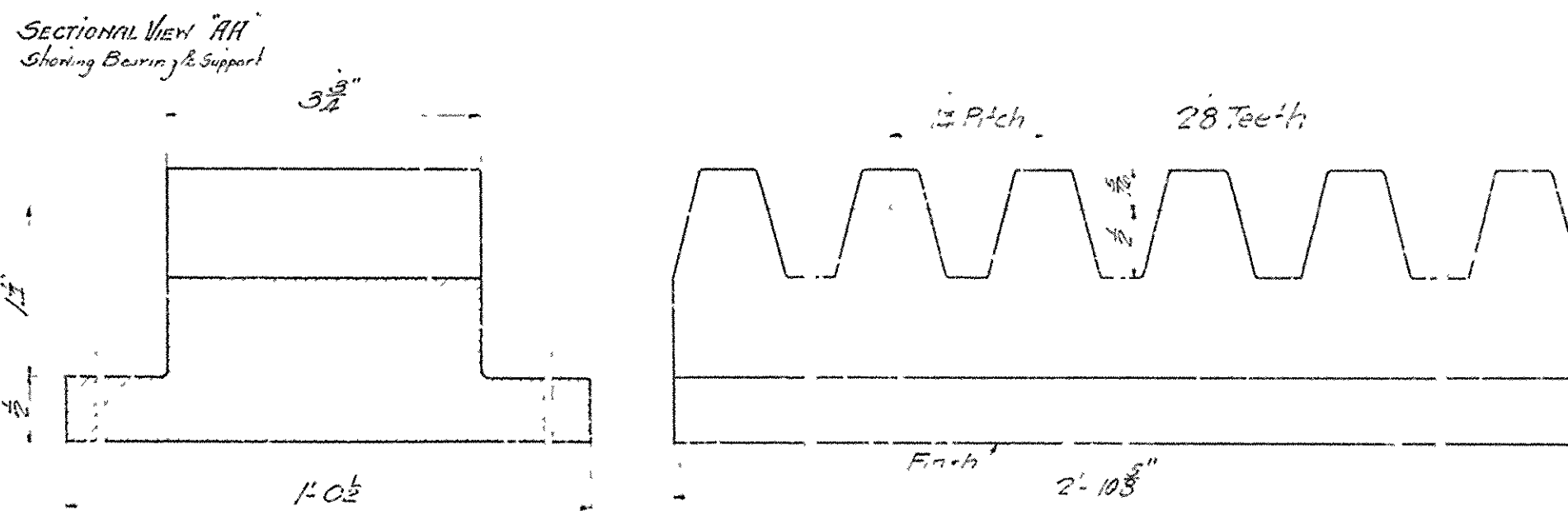
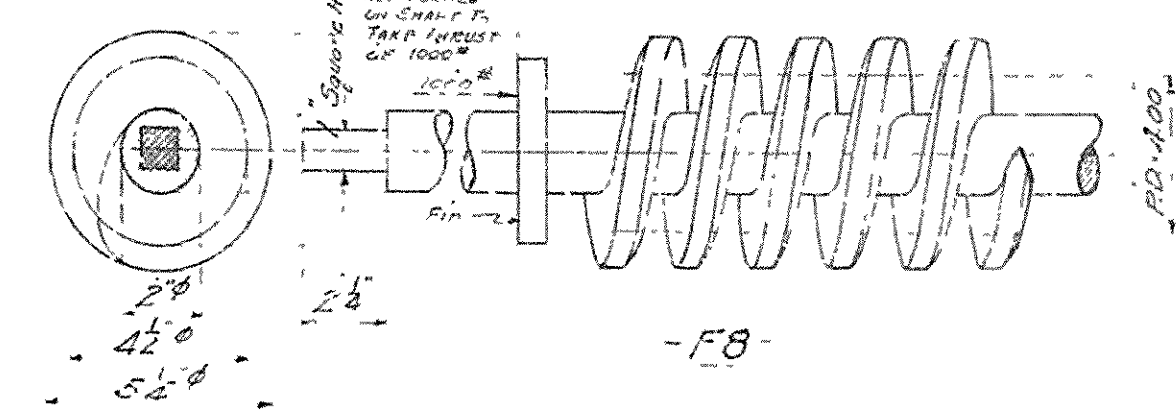
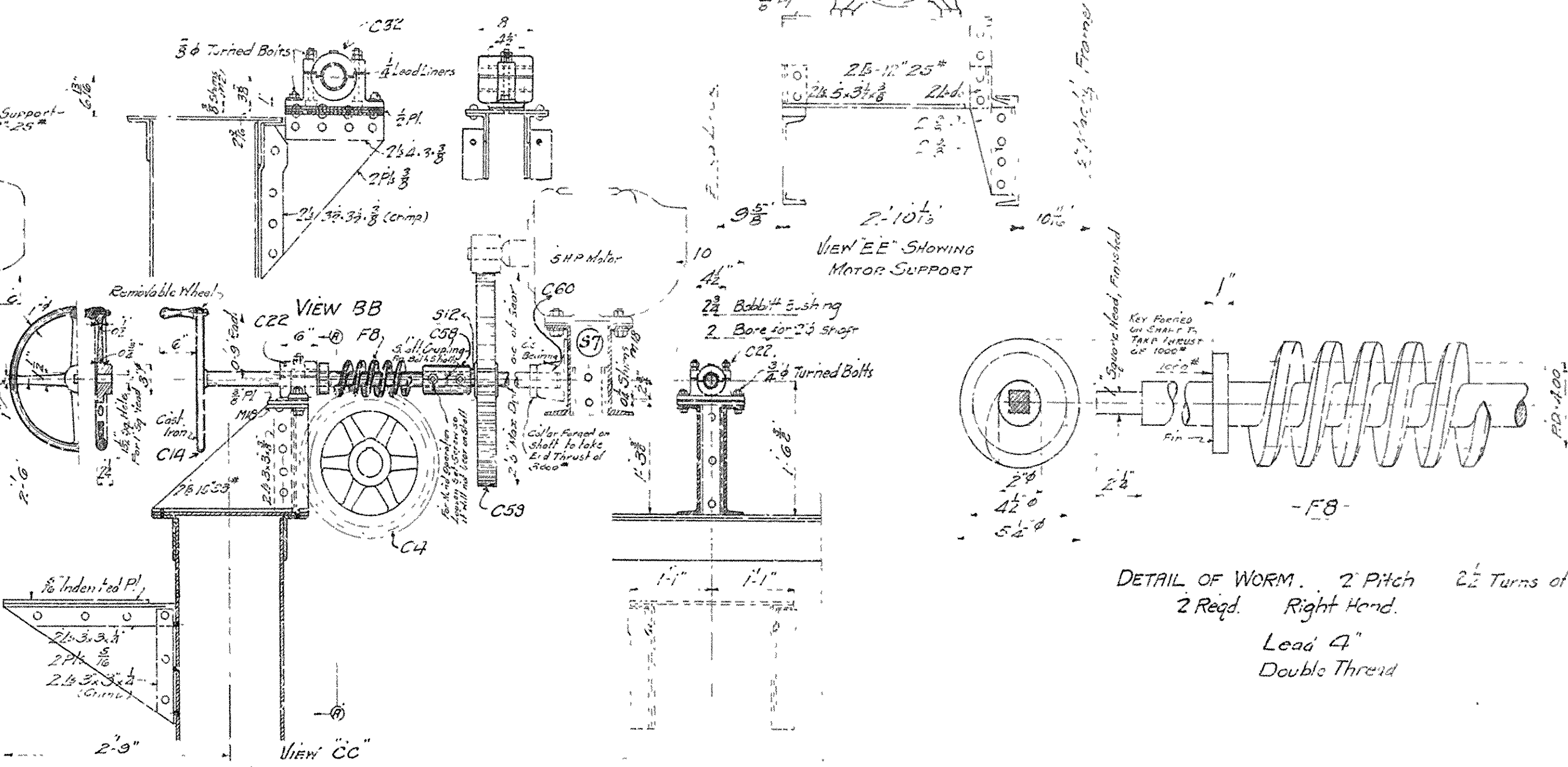
NOTES.
 Provide covering of 2234 Iron for Lock Operating Machinery; Lock Not to be Lubricated Bearings to be drilled and reamed for Compression Grease Cups.
 Bearings to have Lubrication Grooves; Bushing to be cast in Castings.
 Gears to be Machine Cut
 All Bearings to be Cast Steel
 Shafting Forged & Turned for Shafting 3" or over; otherwise shafting may be cast rolled



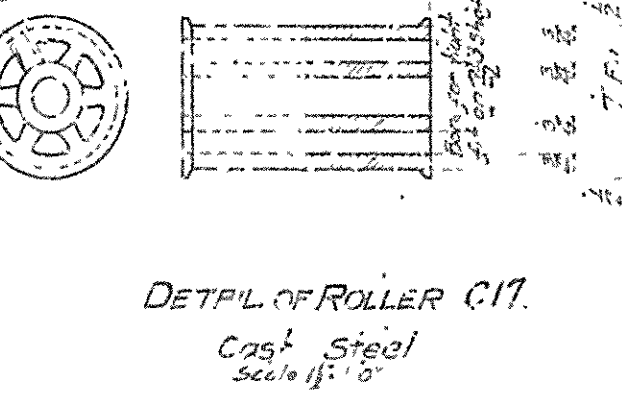
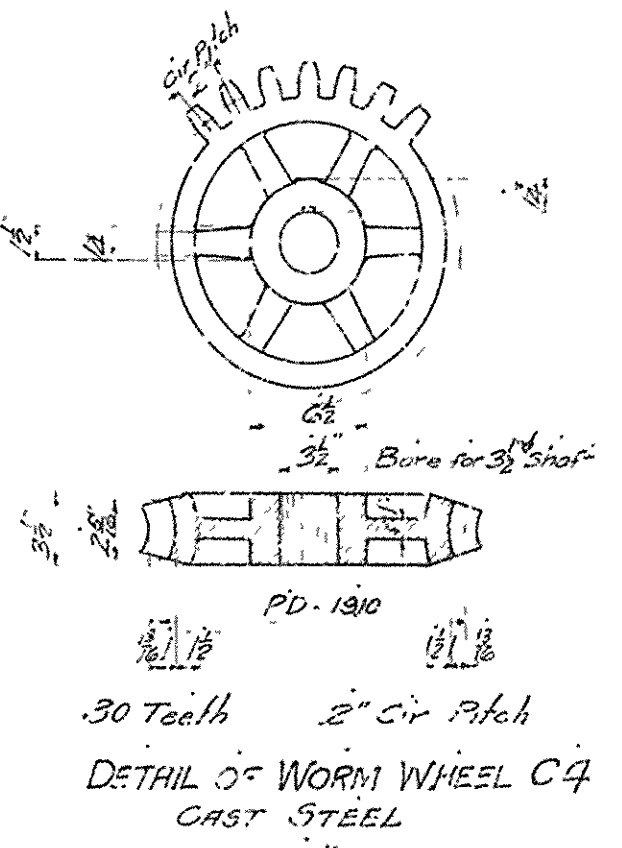
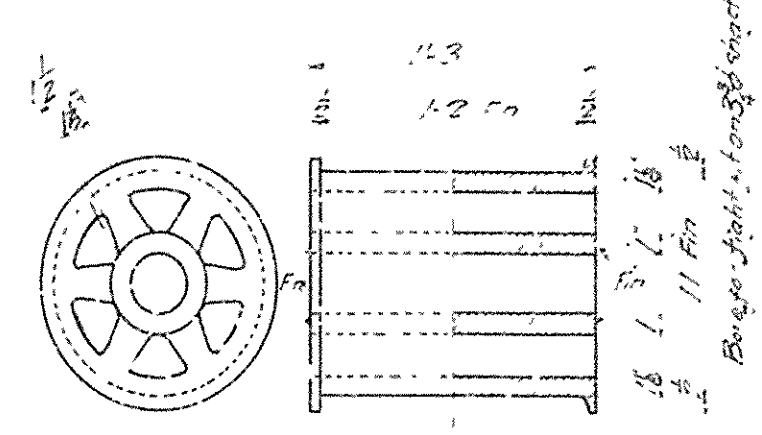
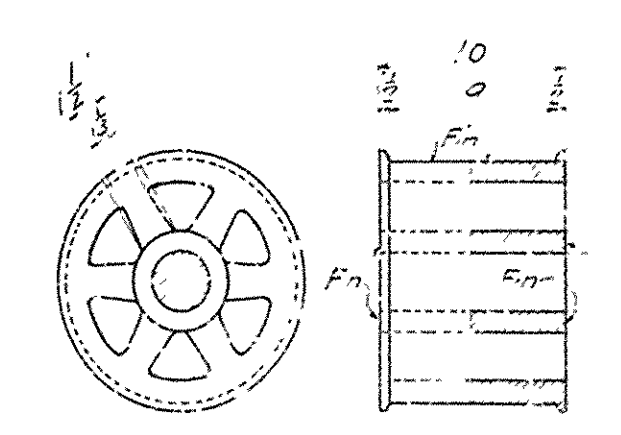
END LOCK scale 1/2" = 1'-0"
 End Lock as here detailed is over Pier No 2.
 End Lock over Pier No 1 is opposite hand of this detail.



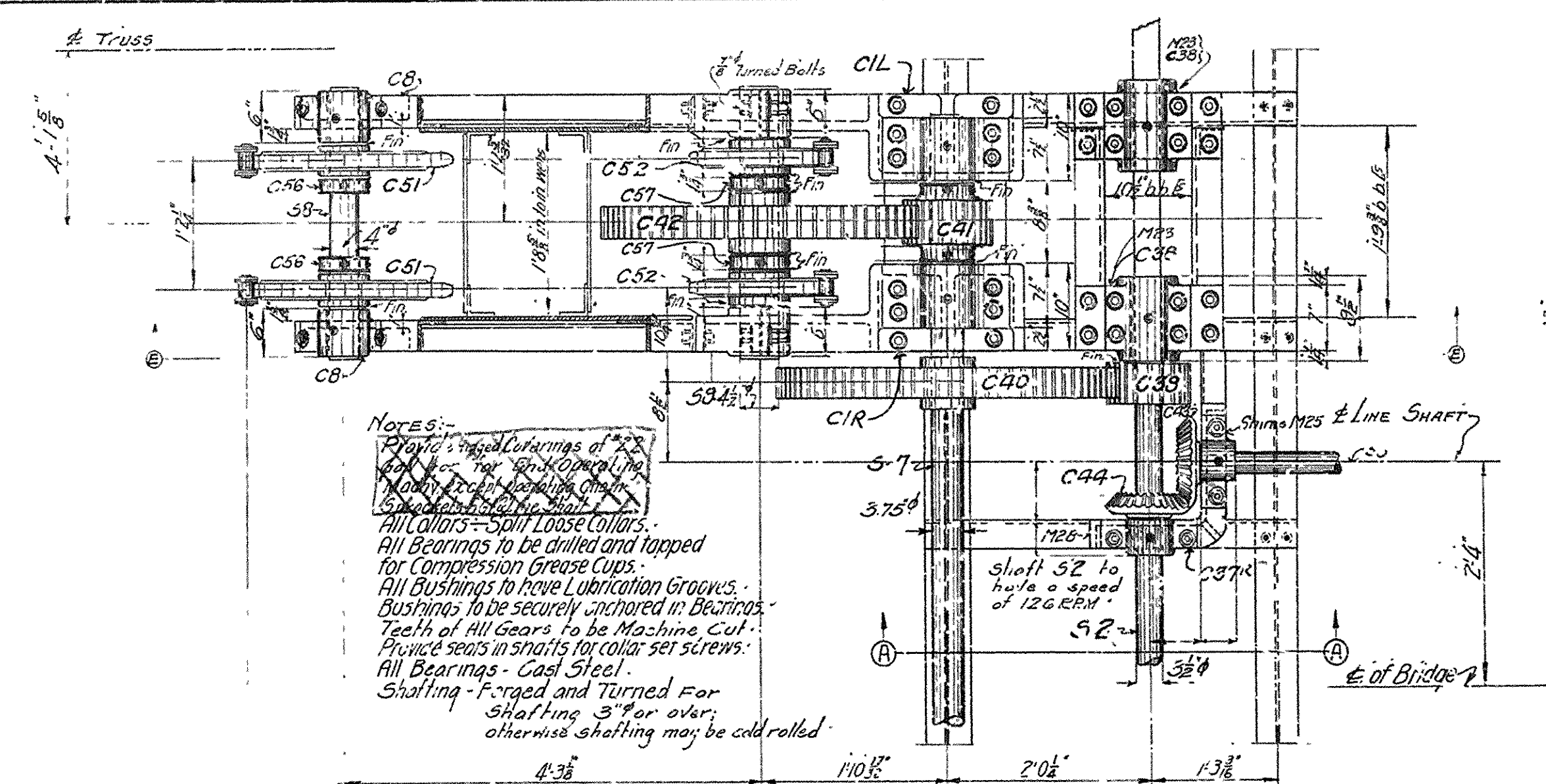
DETAIL OF ROLLER C18 - C19
 scale 3/4" = 1'-0"



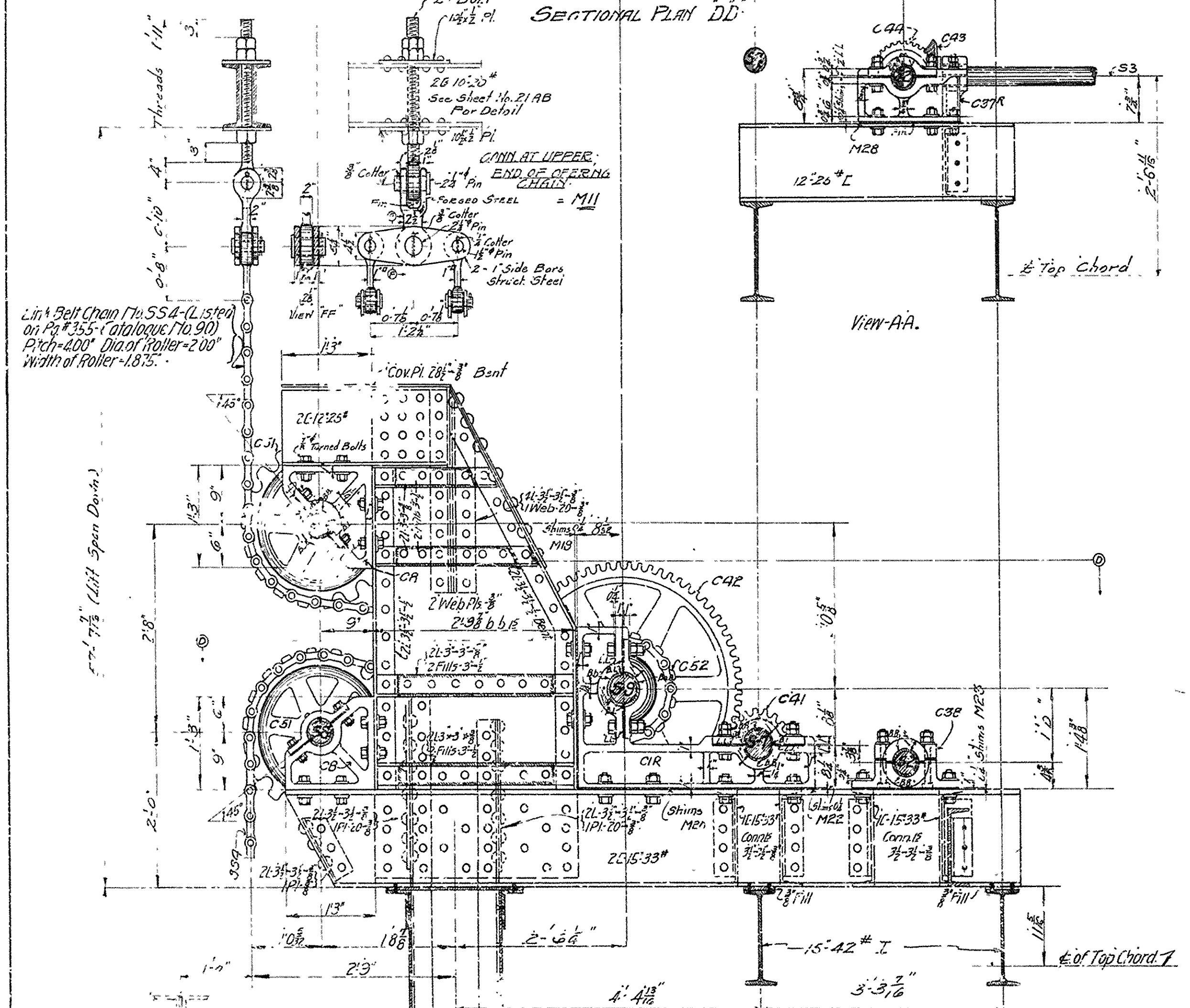
DETAIL OF RACK C31
 Cast Steel
 scale 1/2" = 1'-0"



BRIDGE OVER ARKANSAS RIVER
 NEAR PINE BLUFF, ARKANSAS.
 DETAILS OF ENDLOCK
 Scales as noted
 JEFFERSON COUNTY BRIDGE DISTRICT
 Made by A.M.B. Hedrick & Company
 Traced by S.T. Conroy
 Checked by J.H. ...
 SHEET NO 26



Notes:
 Provide special bearings of 2" dia. for shafts of 1 1/2" dia. for 100 lb. capacity. All bearings to be drilled and tapped for compression grease cups. All bushings to have lubrication grooves. Bushings to be securely anchored in bearings. Teeth of all gears to be machine cut. Provide sets in shafts for collar set screws. All bearings - cast steel. Shafting - forged and turned for shafting 3" per over, otherwise shafting may be cold rolled.



Link & Belt Chain 17x554 (Listed on p. 355 - Catalogue 70 910) Pitch - 4.00" Dia of Roller - 2.00" Width of Roller - 1.875"

1 1/2" Lift Span Down

2 1/8" Lift Span Down

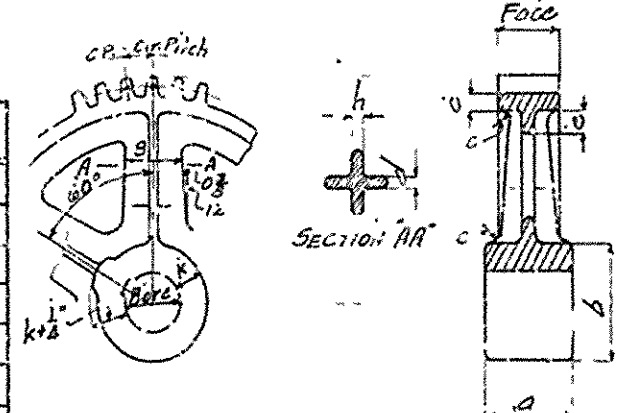
Nomenclature:
 B.B. - Bronze Bushing
 B.B. - Babbitt Bushing
 B.L. - Bronze Liners
 L.L. - Lead Liners

SIDE ELEVATION EE

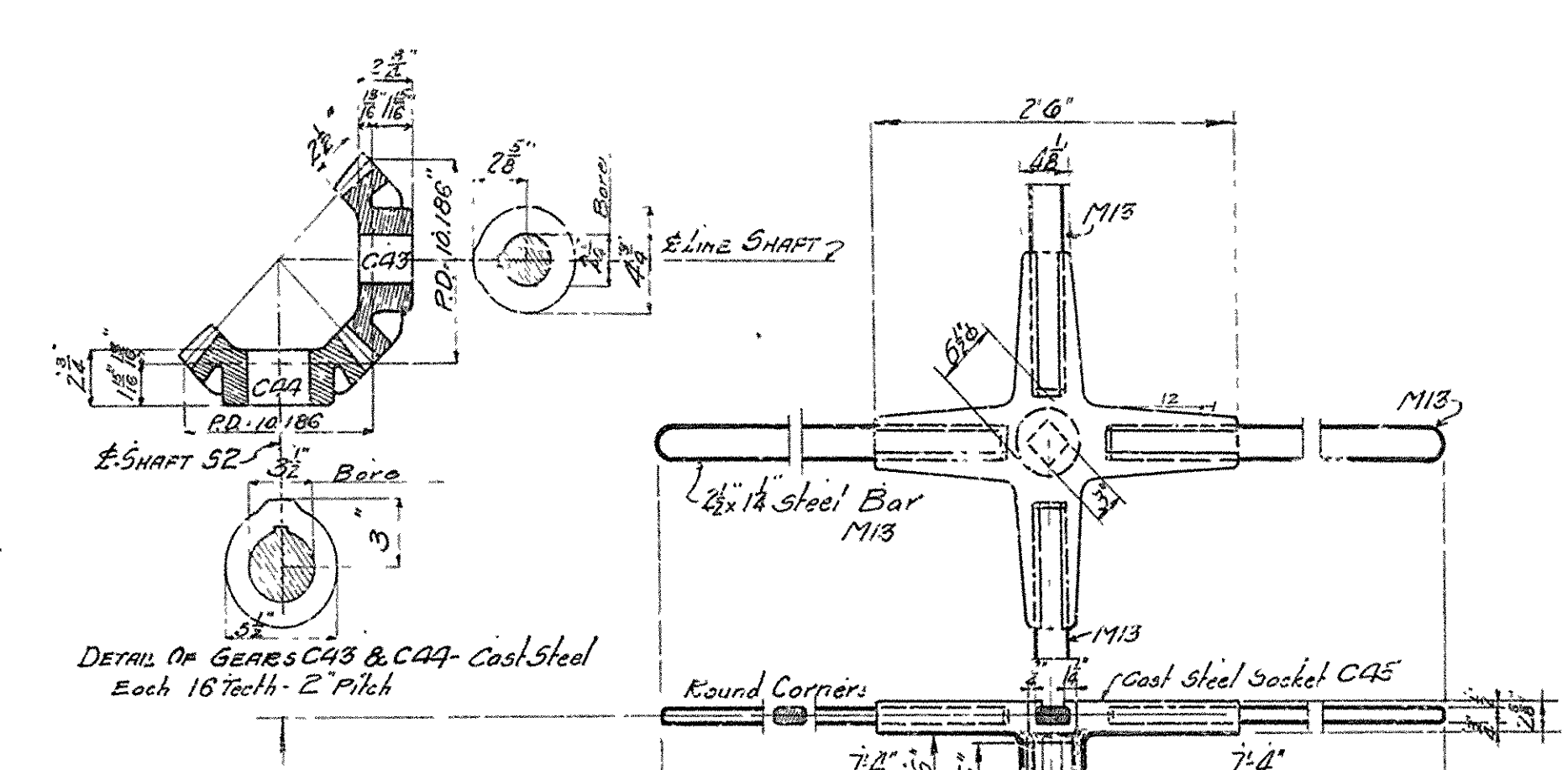
CONICAL UPPER END OF OPER. LEVER - M12

TABLE OF GEARS

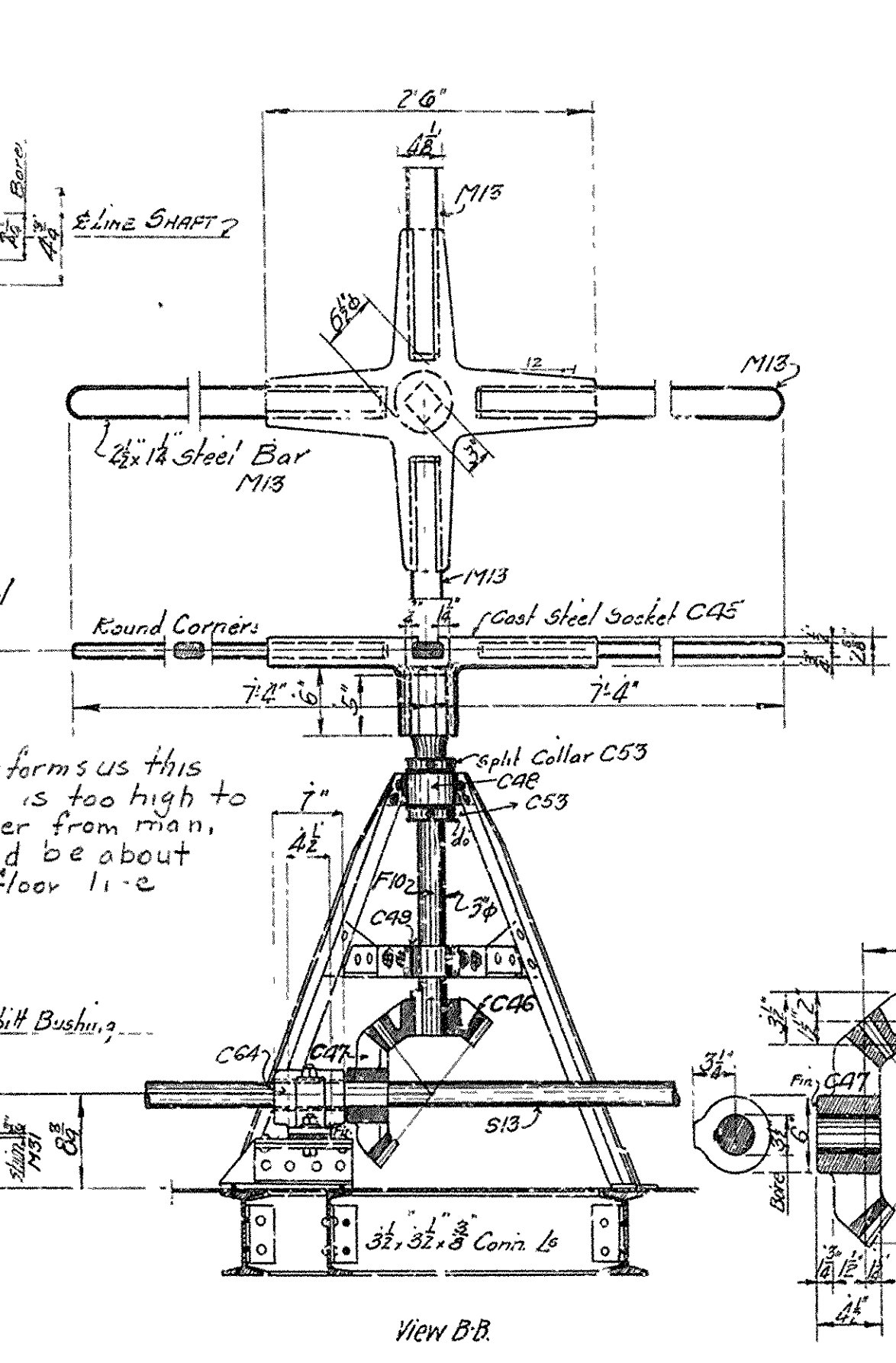
No.	Mod.	Face	Pitch	Diag.	Par.	Mod.	a	b	c	d	e	g	h	REMARKS	KEYS
16	C41	13	4.00	1.75	2.23	1.00	C.S.	3.50	7.00					Small sprocket for PT Chain, 50 "dia" roller, roller direct on face and teeth must be hardened	1/2" x 1/8"
8	C42	12	4.00	1.75	1.52	1.50	C.S.	4.00	7.00					Same as C41 except make sprocket solid, no spokes	1/2" x 1/8"
4	C43	68	7.00	3.50	8.78	4.00	C.S.	6.75	7.5	1	278	120	370		1 1/2" x 1/2"
4	C44	18	7.00	3.50	10.02	3.75	C.S.	8.25						Pinion	1 1/2" x 1/2"
2	C45	28	1.00	3.50	4.08	3.75	C.S.	6.00	7.0	0.8	1.60	1.00	3.50		1 1/2" x 1/2"
2	C46	18	1.00	2.75	8.53	.50	C.S.	4.75						Pinion	1 1/2" x 1/2"
2	C47	16	2.00	2.50	10.16	2.75	C.S.							Bevel Gear - See Detail Dimensions	1 1/2" x 1/2"
2	C48	16	2.00	2.50	10.16	3.50	C.S.							Bevel Gear	1 1/2" x 1/2"
1	C49	16	2.00	2.50	10.16	3.50	C.S.							Bevel Gear	1 1/2" x 1/2"
1	C41	13	2.00	3.50	14.36	3.50	C.S.							Bevel Gear	1 1/2" x 1/2"



DETAIL OF HAND OPERATING DEVICE

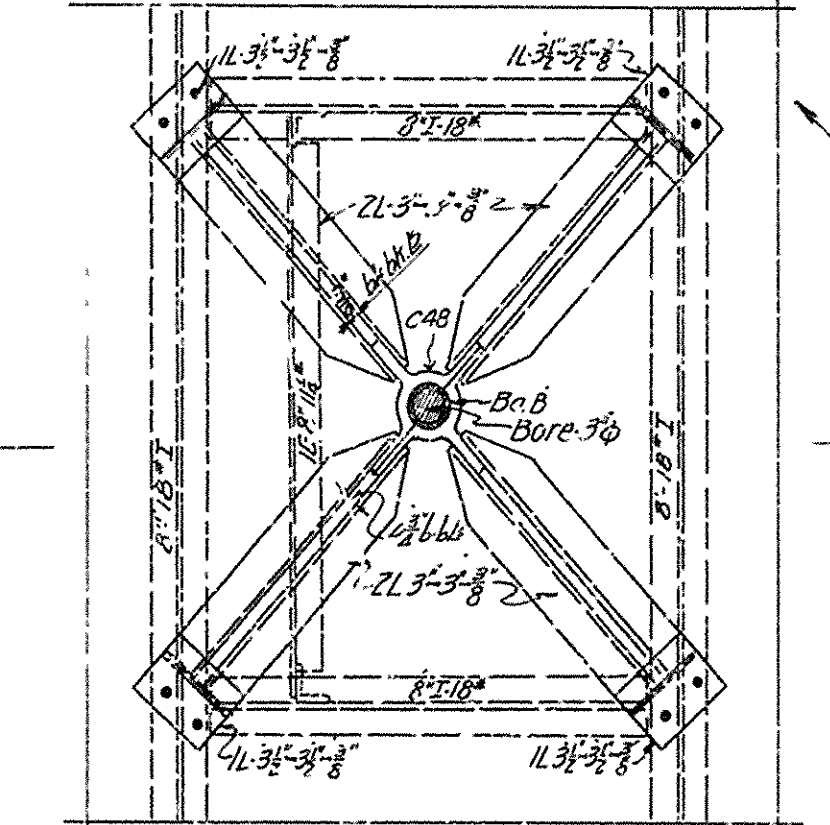


DETAIL OF GEARS C48 & C49 - Cast Steel Each 16 Teeth - 2" Pitch

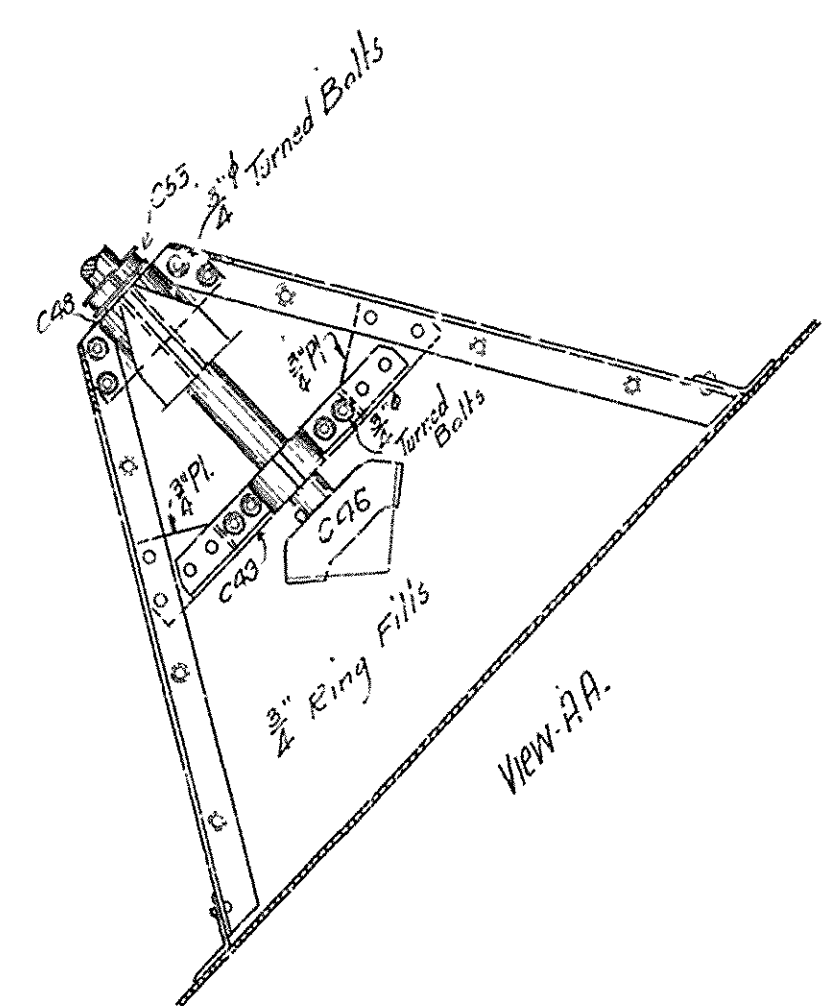


View BB

DETAIL OF BEVEL GEARS C46 & C47



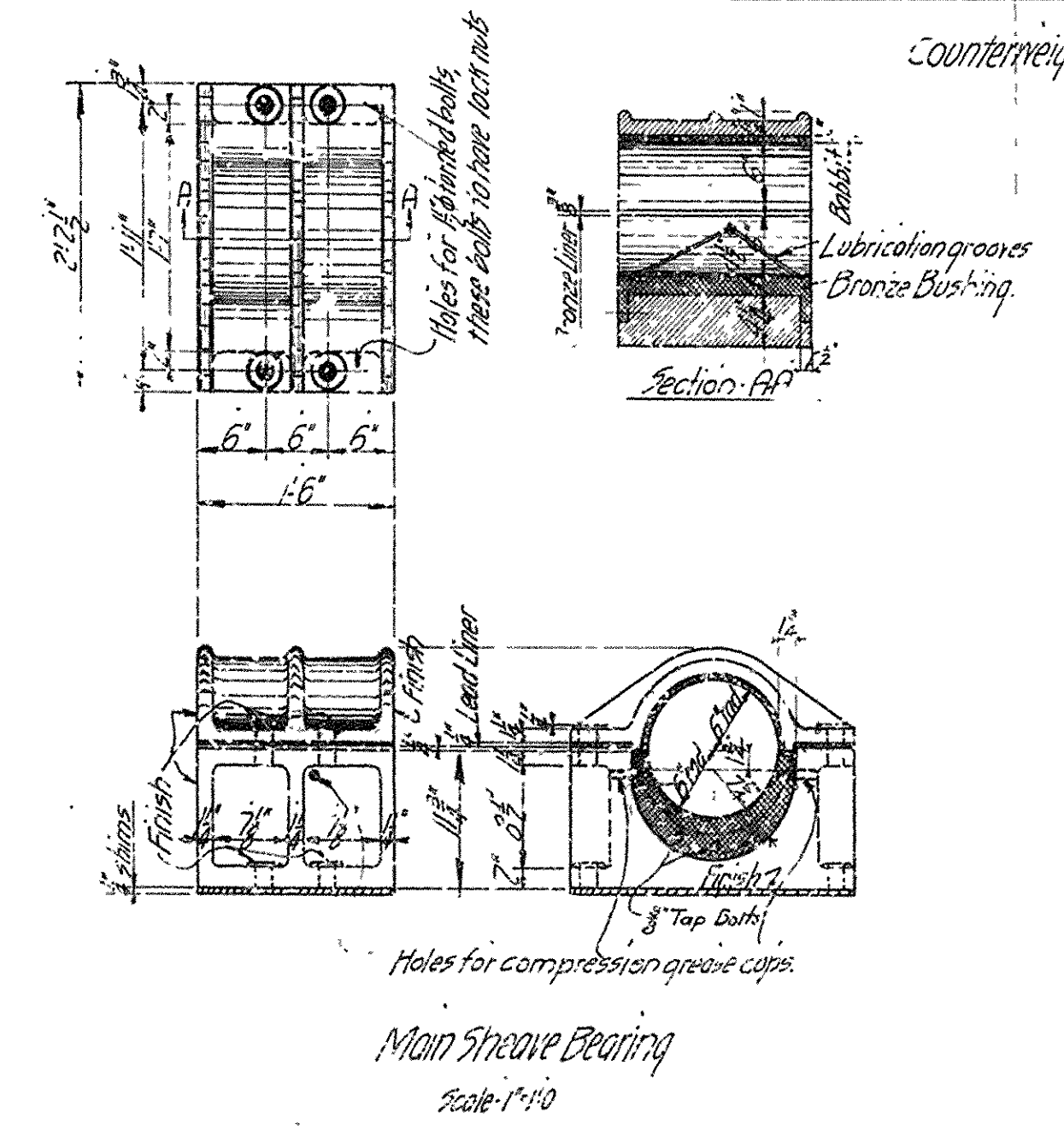
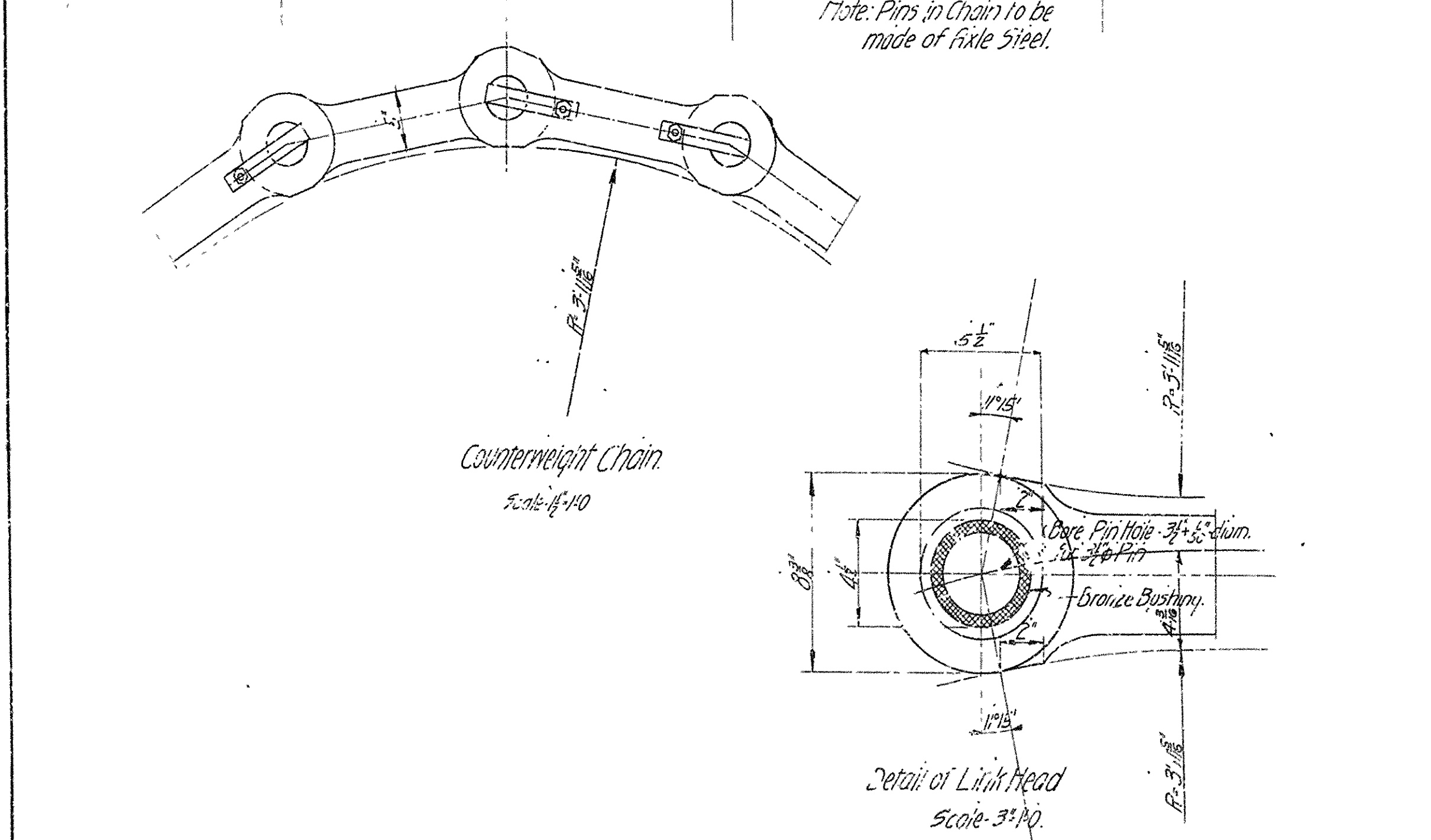
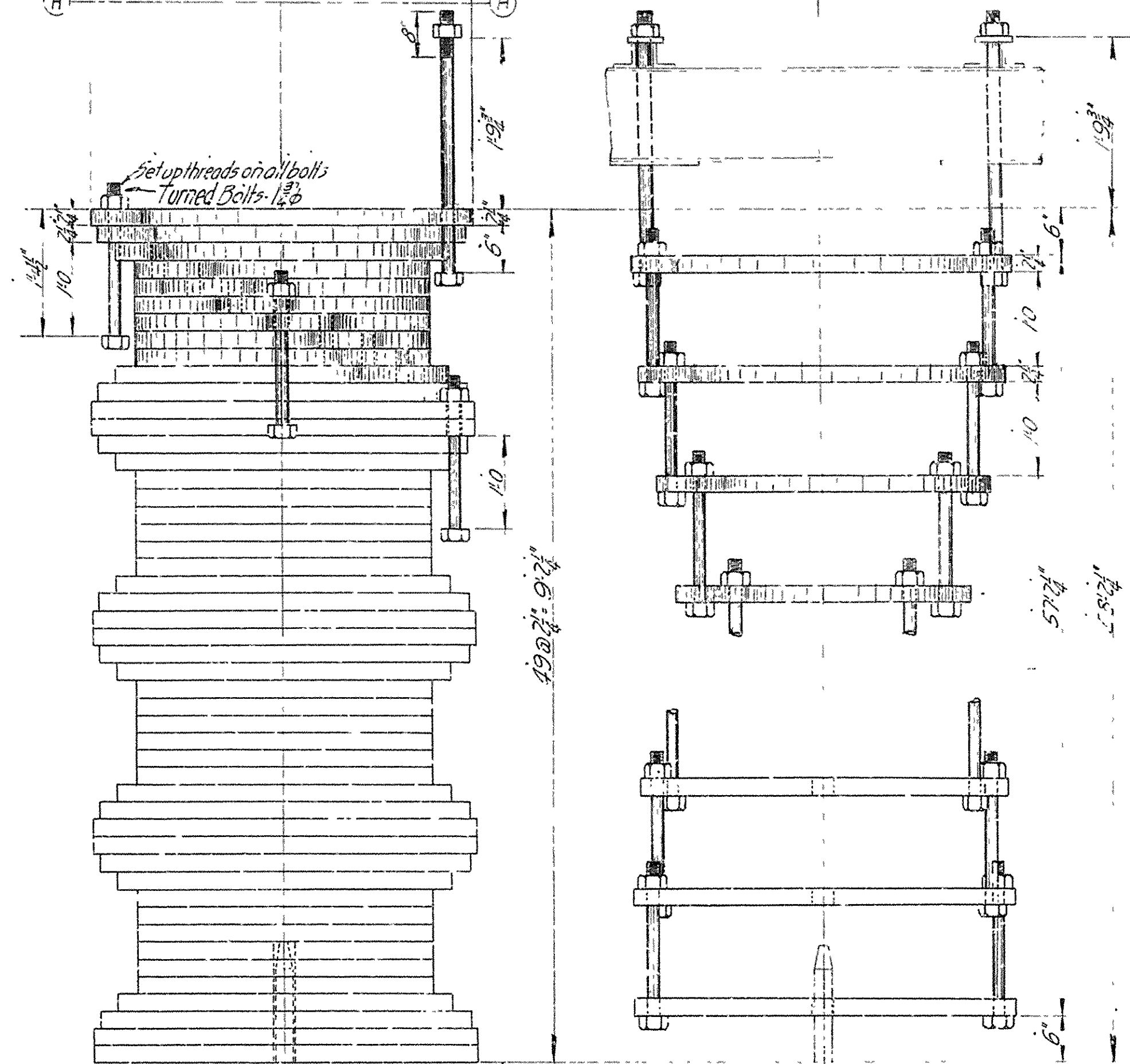
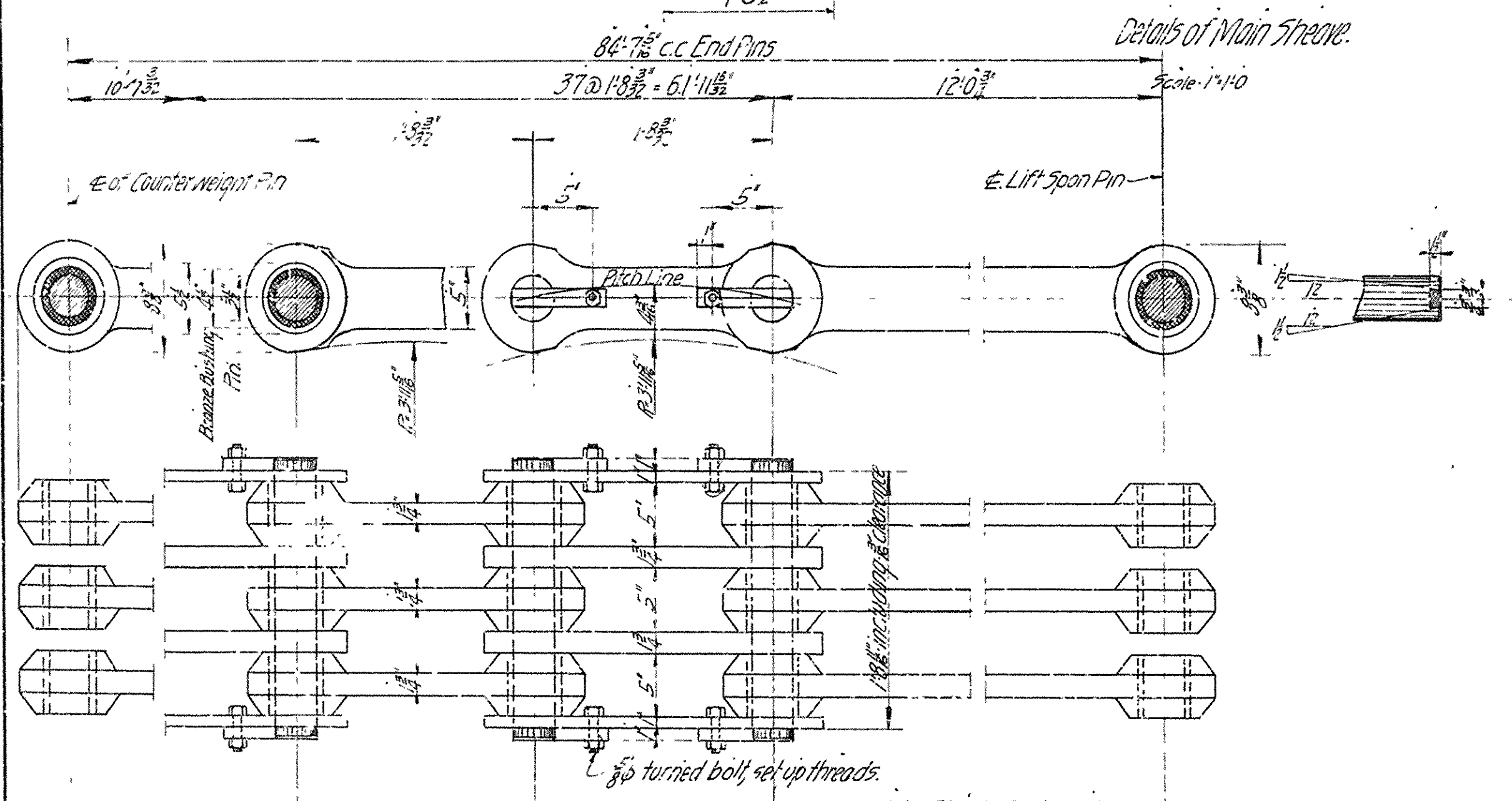
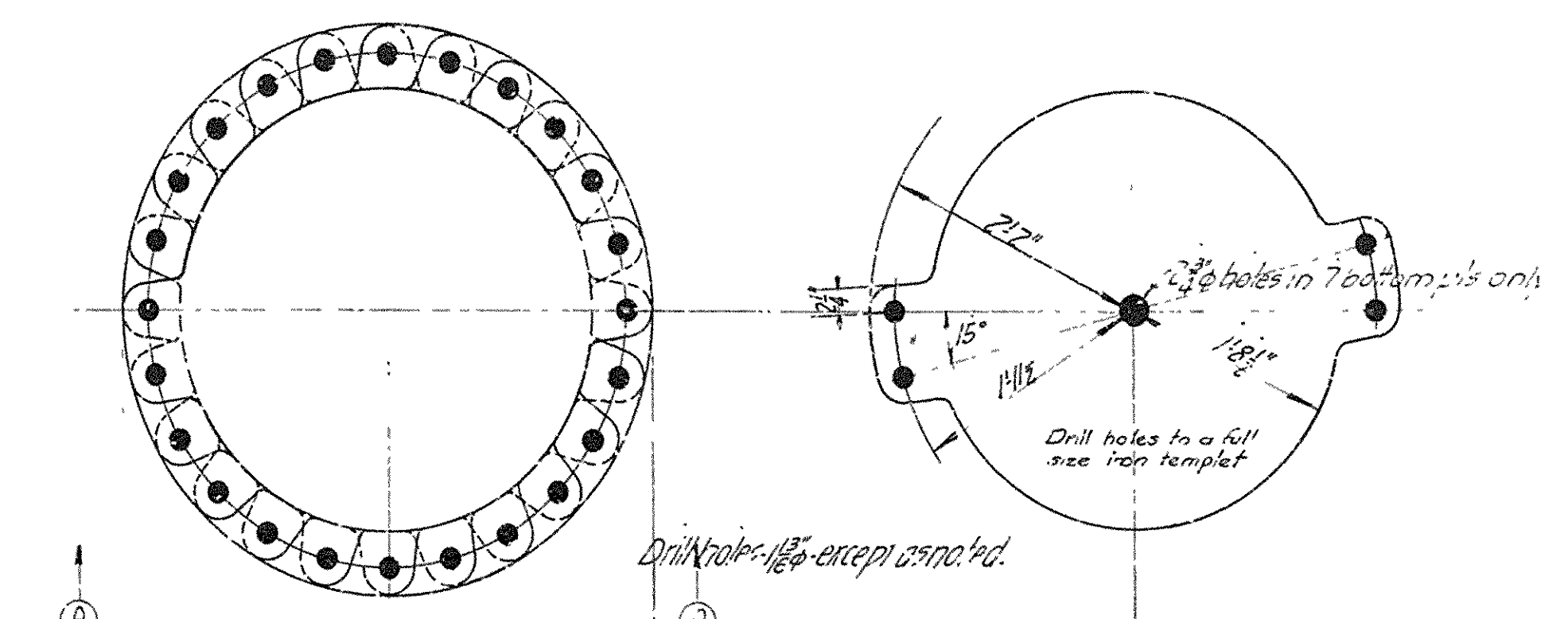
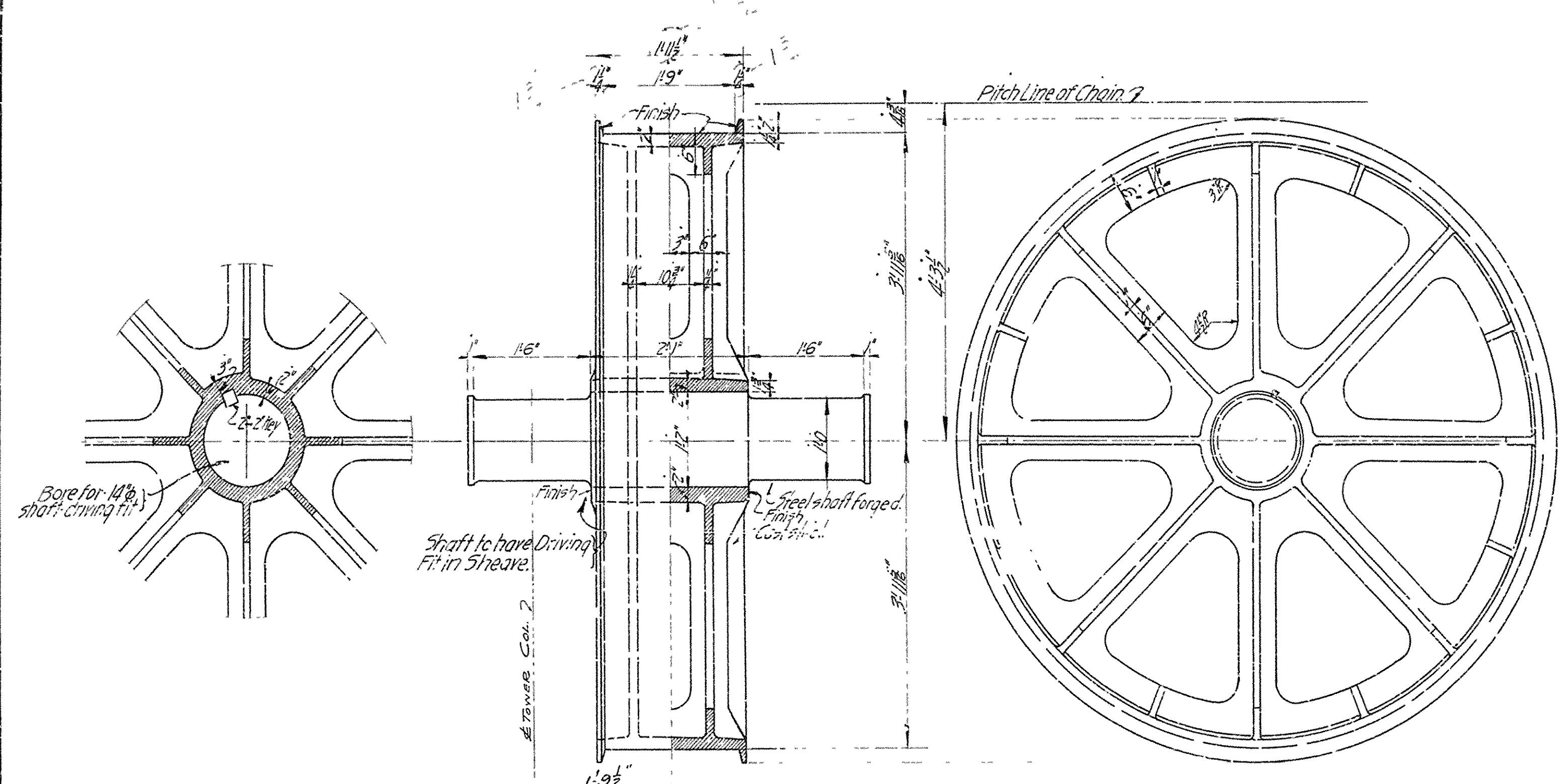
Plan of Capstan Brace



View AA

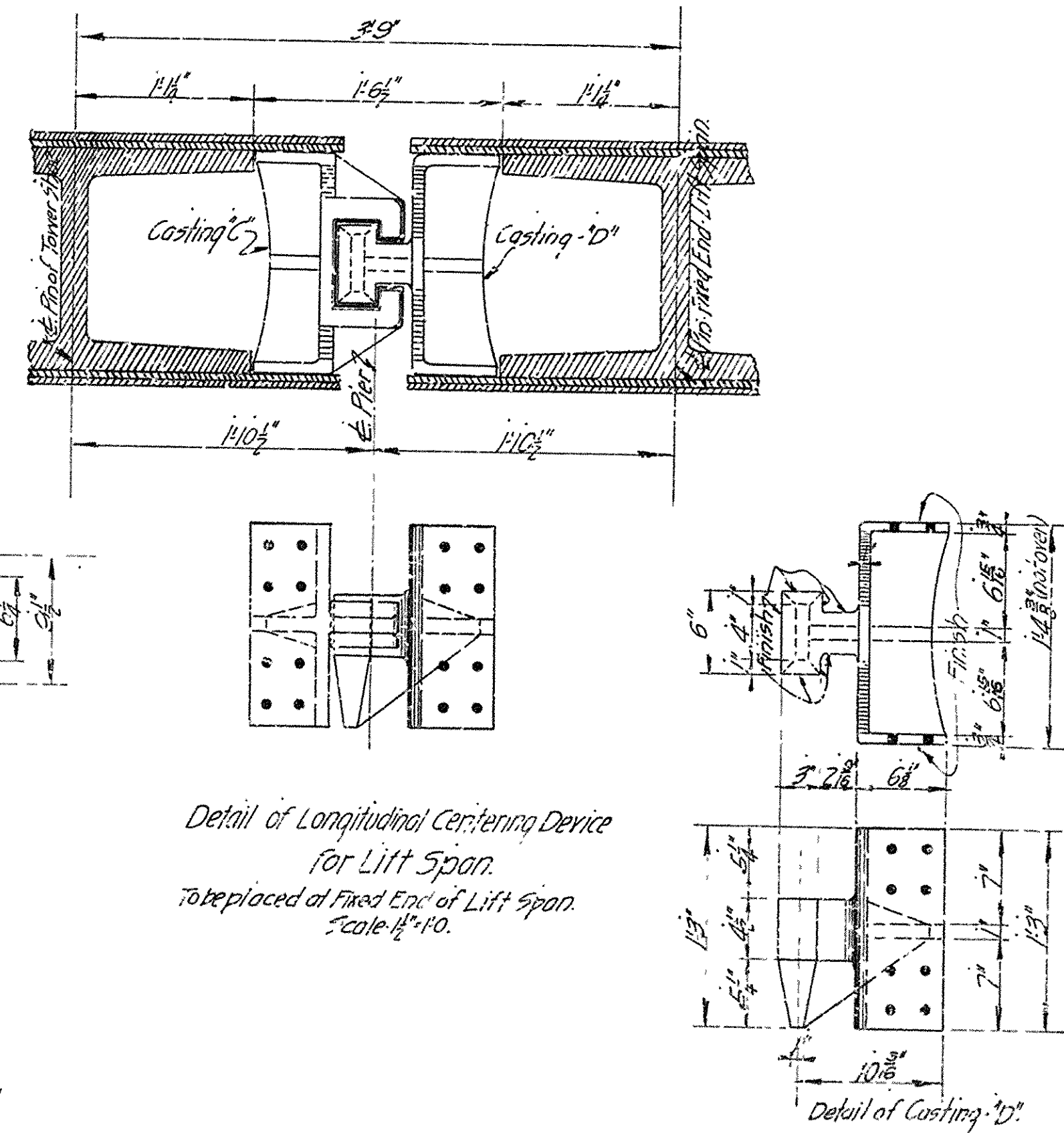
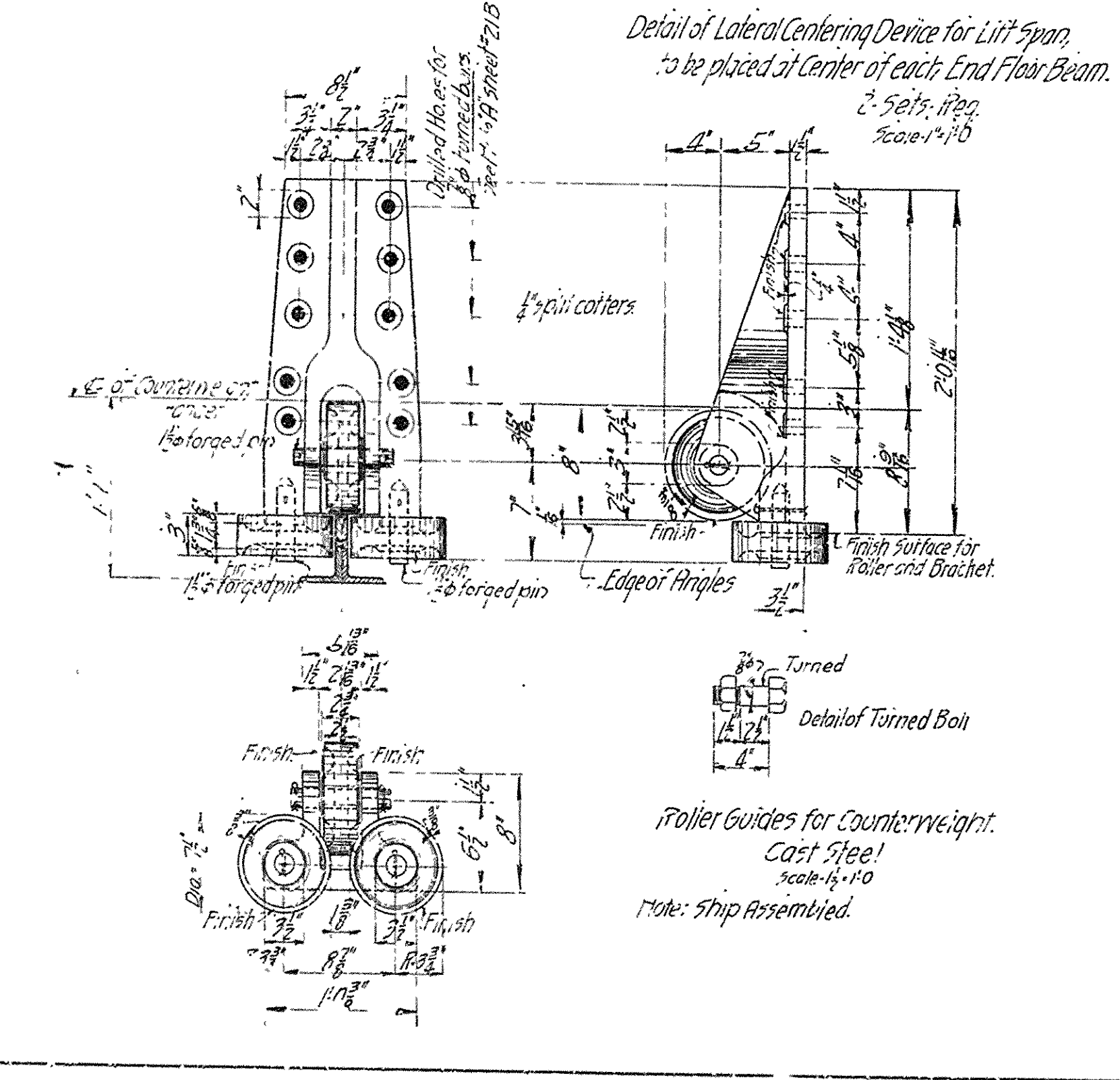
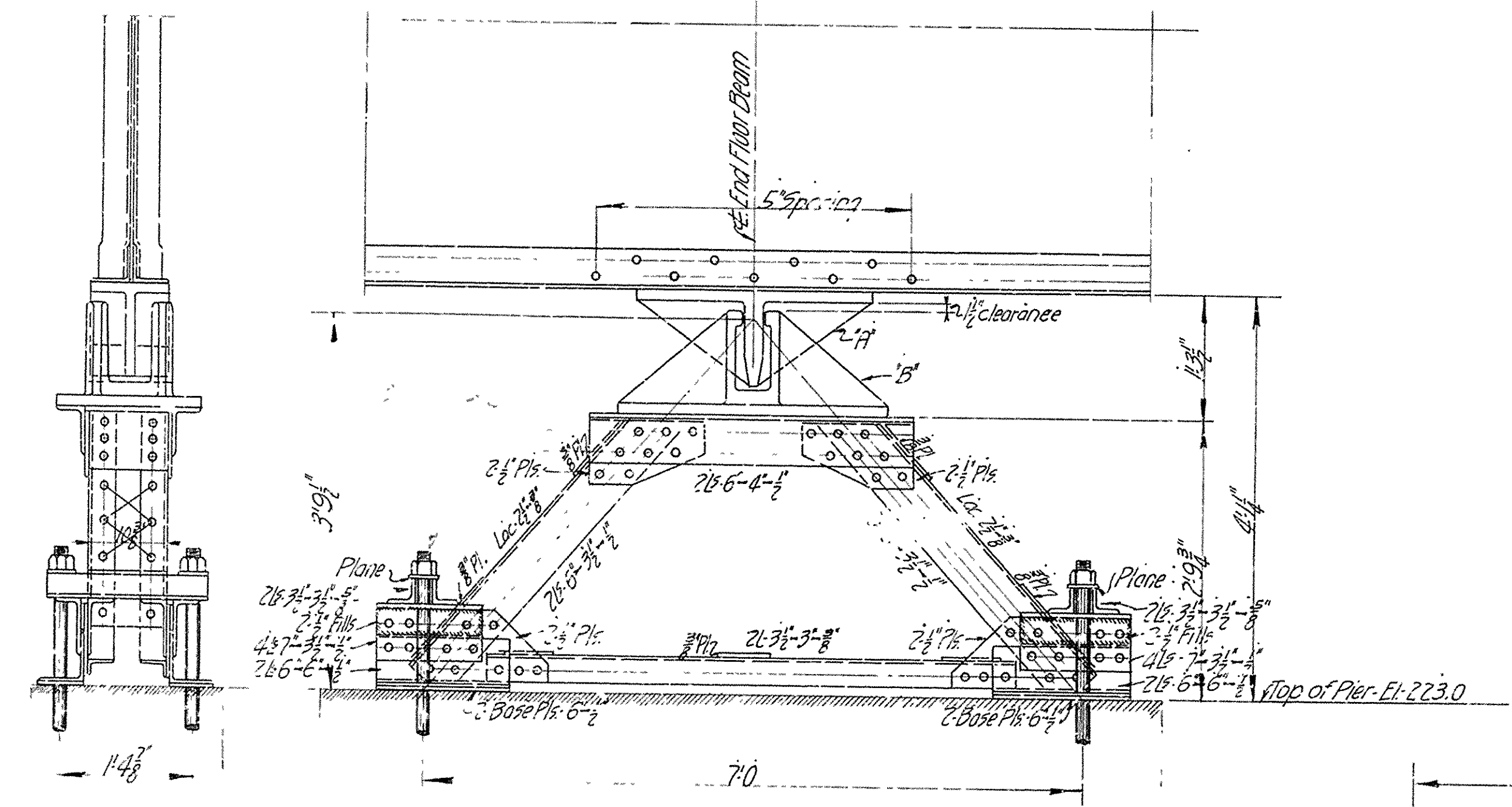
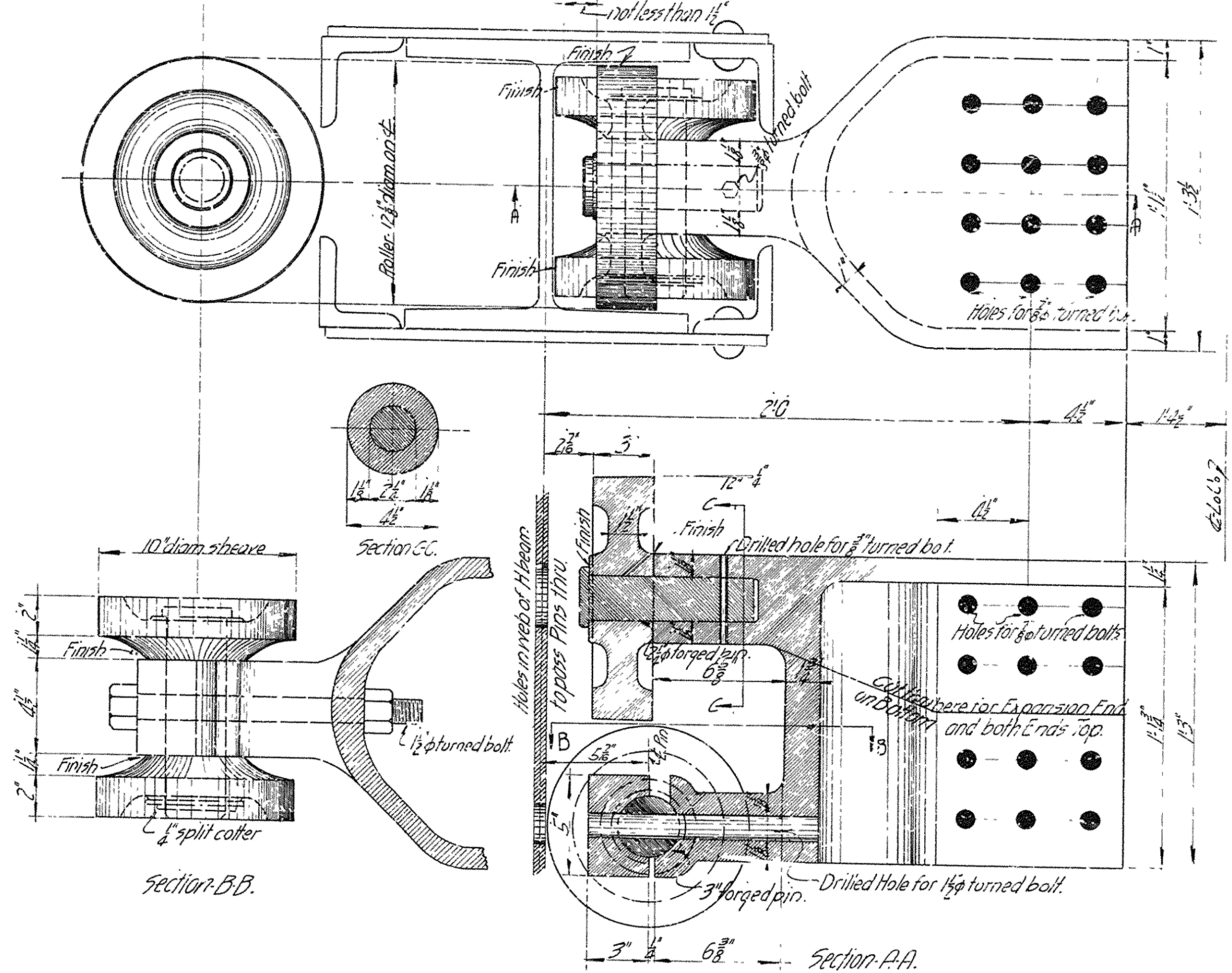
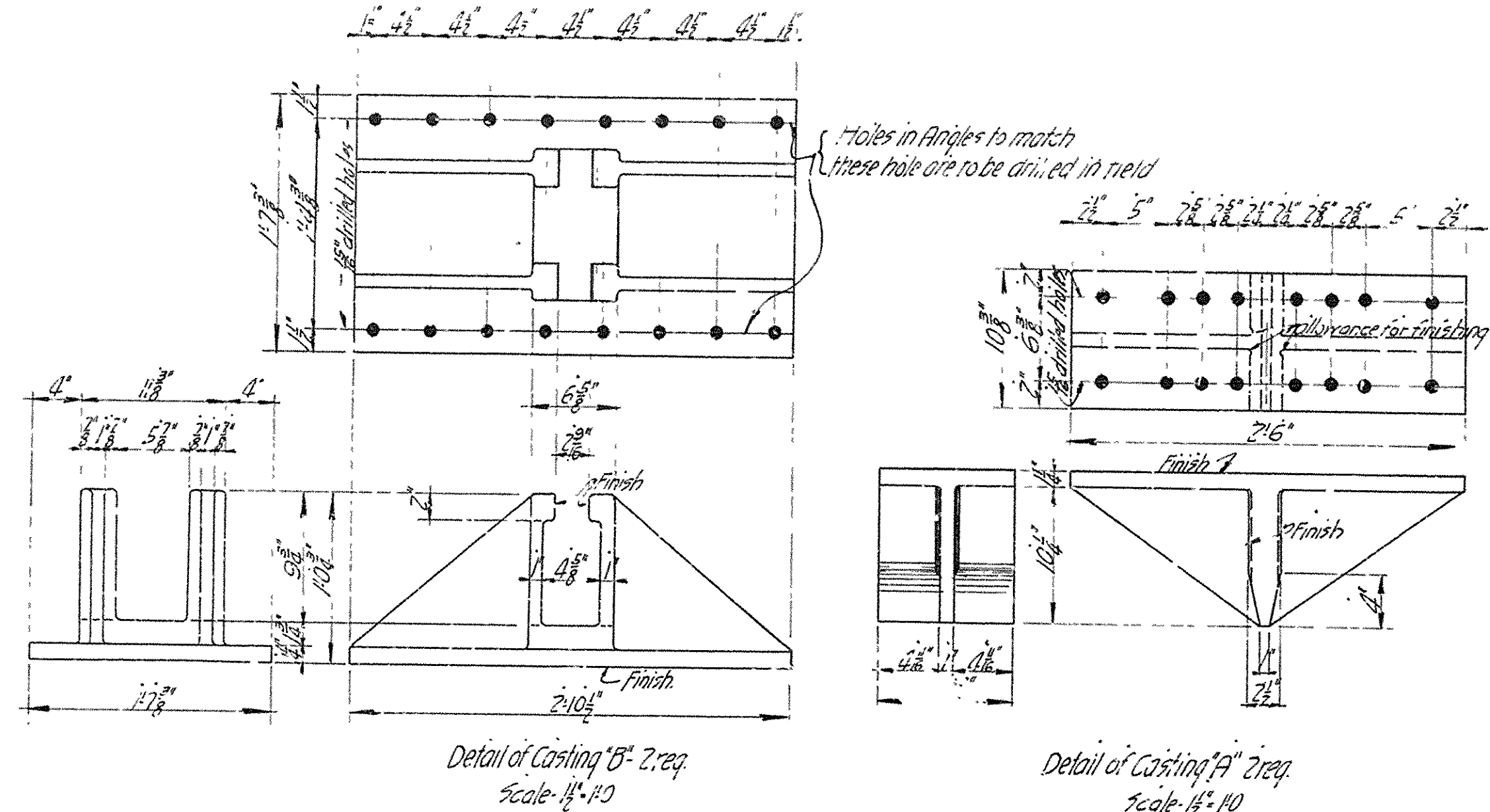
BRIDGE OVER ARKANSAS RIVER
 NEAR PINE BLUFF, ARKANSAS
 DETAILS OF OPERATING MACHINERY
 Scale - 1" = 1'-0"

JEFFERSON COUNTY BRIDGE DISTRICT
 Made by: F.M.B. J. H. & C. Cochrane
 Checked by: J.P. Consulting Engineers
 Kansas City, Mo.



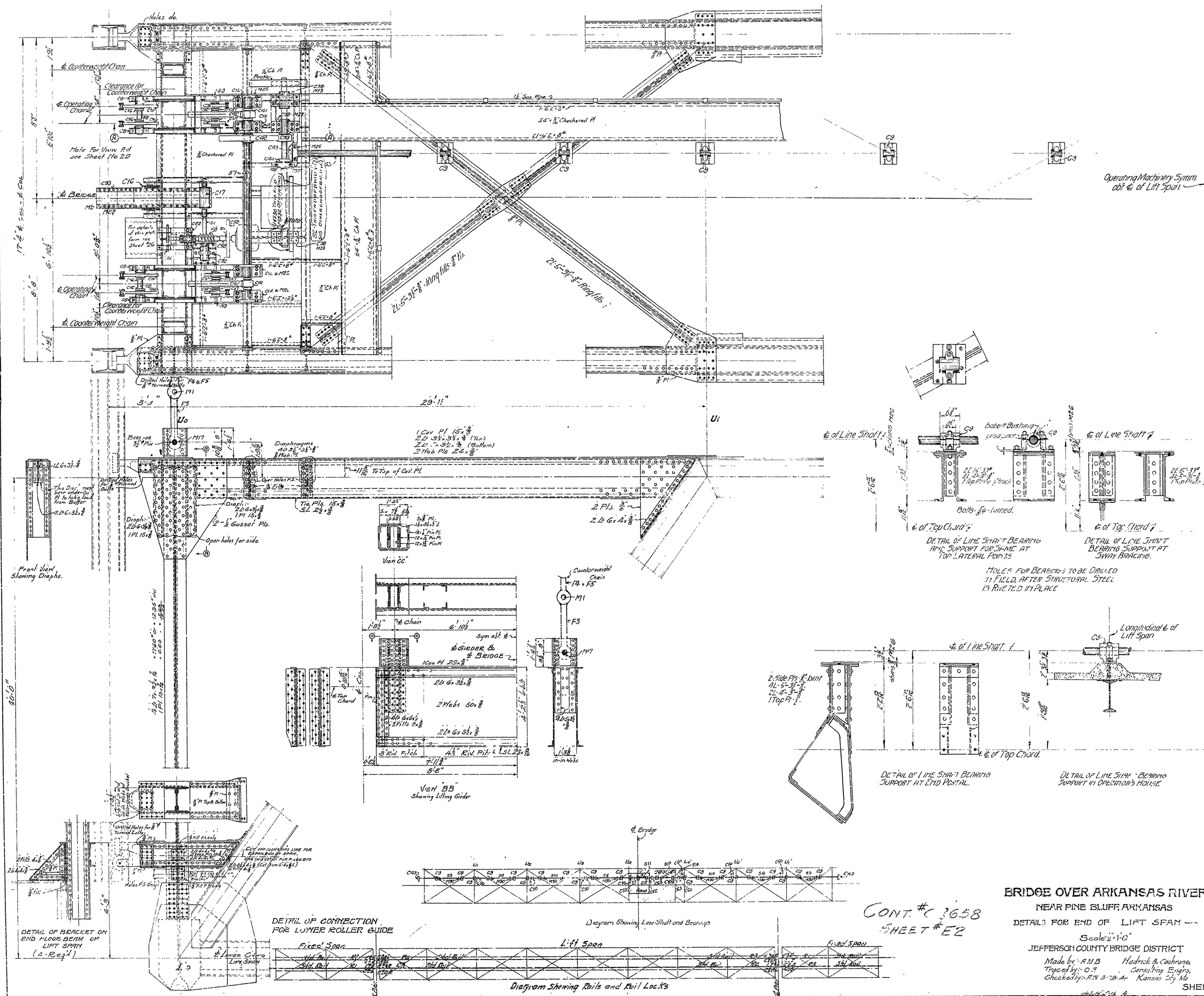
BRIDGE OVER ARKANSAS RIVER.
NEAR PINE BLUFF, ARKANSAS.
DETAILS OF MAIN SHEAVE & BEARING AND FOLDING COUNTERWEIGHT & CHAIN
SCALE AS SHOWN
JEFFERSON COUNTY BRIDGE DISTRICT.

Made by C. S. J. Hedrick & Cochrane
Traced by O. A. Consulting Engrs.
Checked by A. V. B. Kansas City, Mo.

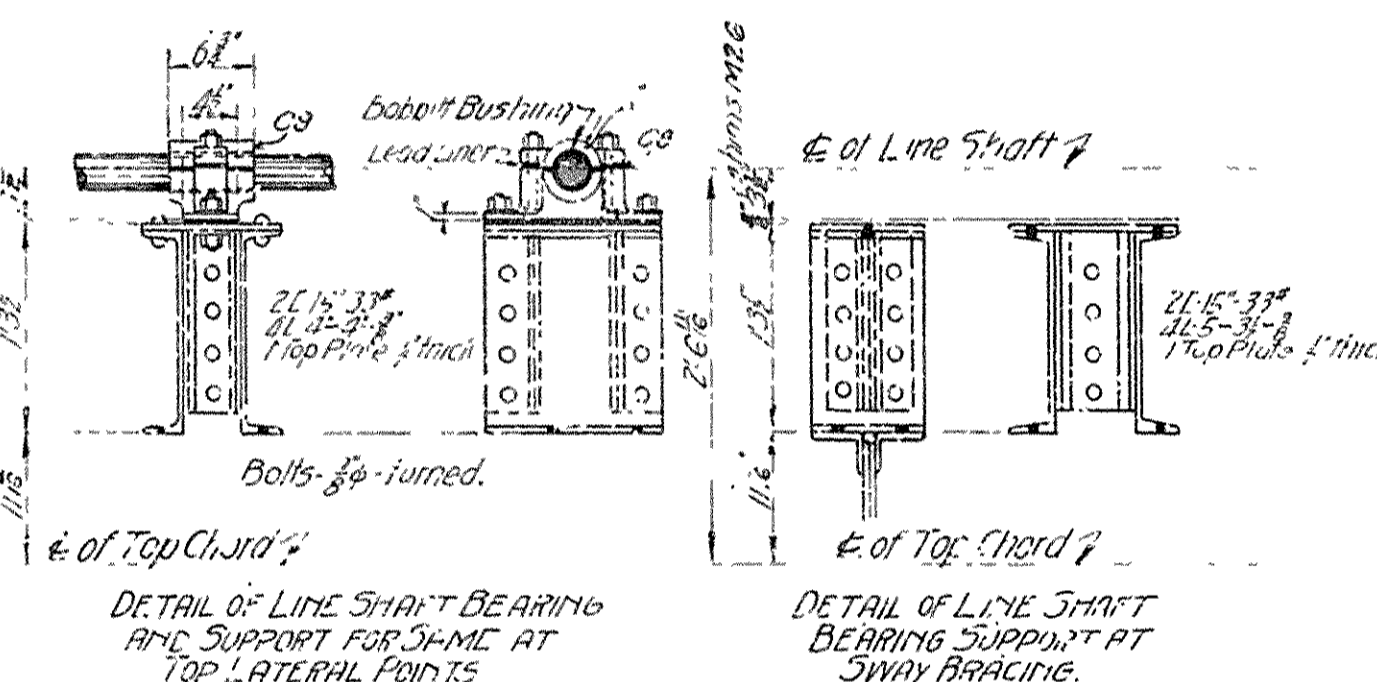


All Castings to be Steel.

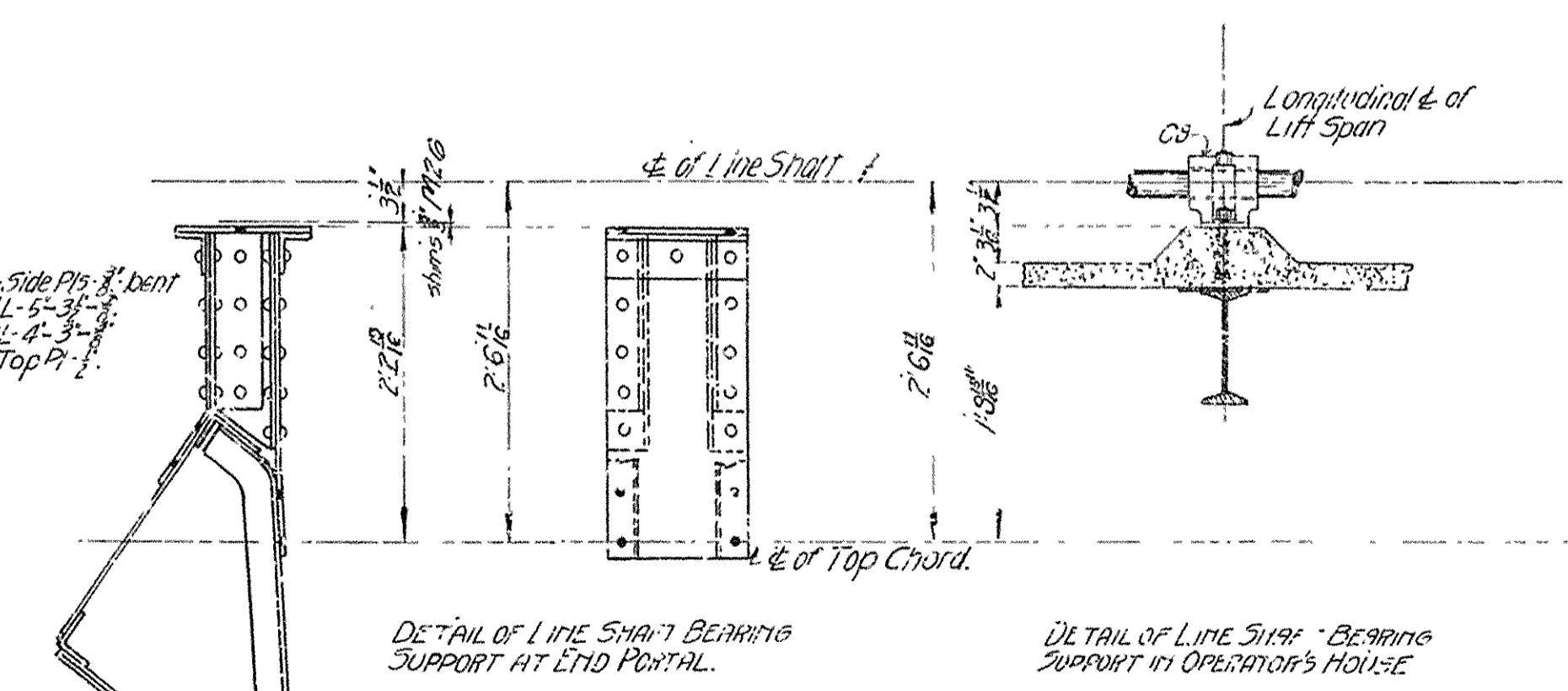
BRIDGE OVER ARKANSAS RIVER
NEAR PINE BLUFF, ARKANSAS.
DETAILS OF LATERAL CENTERING DEVICE, ROLLER GUIDES, ETC.
FOR LIFT SPAN.
Scale as shown.
JEFFERSON COUNTY BRIDGE DISTRICT.
Made by C.S.I. Hedrick & Cochrane
Traced by C.A. Consulting Engrs
Checked by A.H.W. 3-9-14 Kansas City, Mo.



Operating Machinery Symm. not \pm of Lift Span



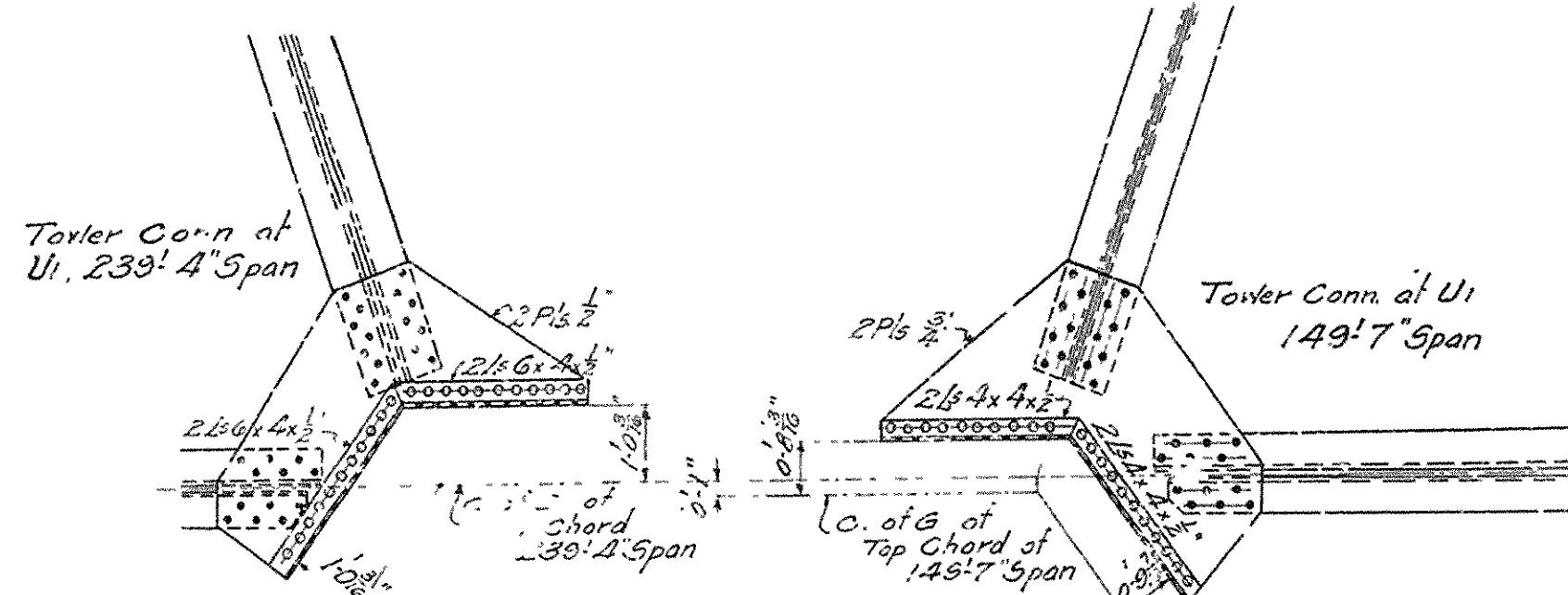
HOLES FOR BEARINGS TO BE DRILLED IN FIELD AFTER STRUCTURAL STEEL IS RIVETED IN PLACE



BRIDGE OVER ARKANSAS RIVER
 NEAR PINE BLUFF, ARKANSAS
 DETAILS FOR END OF LIFT SPAN
 Scale: 1/4" = 1'-0"
 JEFFERSON COUNTY BRIDGE DISTRICT
 Made by: A.M.B. Hedrick & Cochran
 Traced by: O.F. Consulting Engrs.
 Checked by: R.W. S. B.A. Kansas City Mo.
 SHEET No. 22

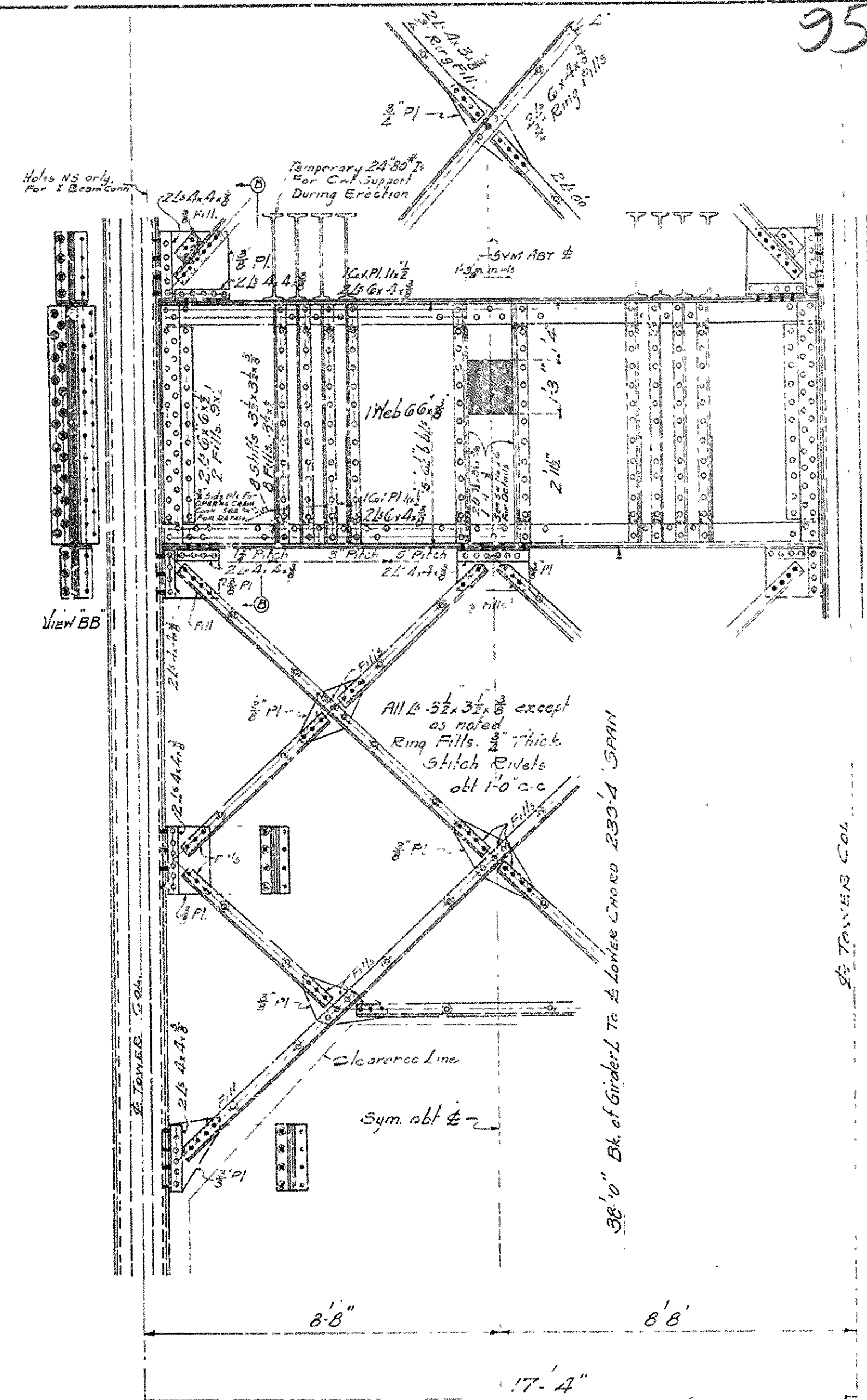
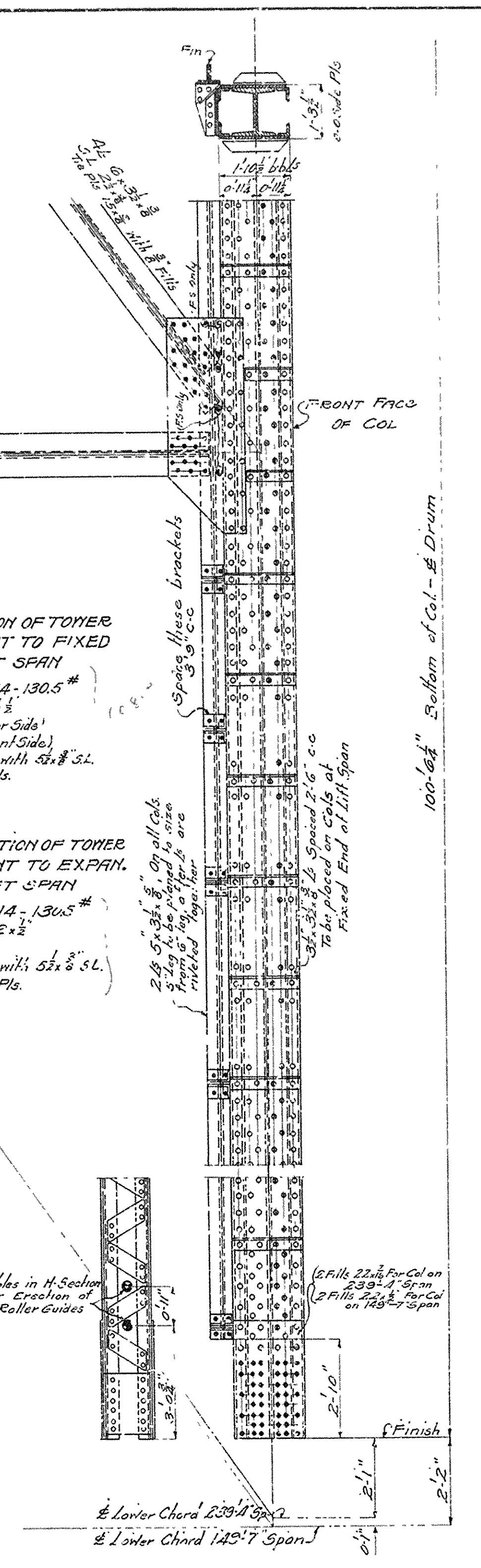
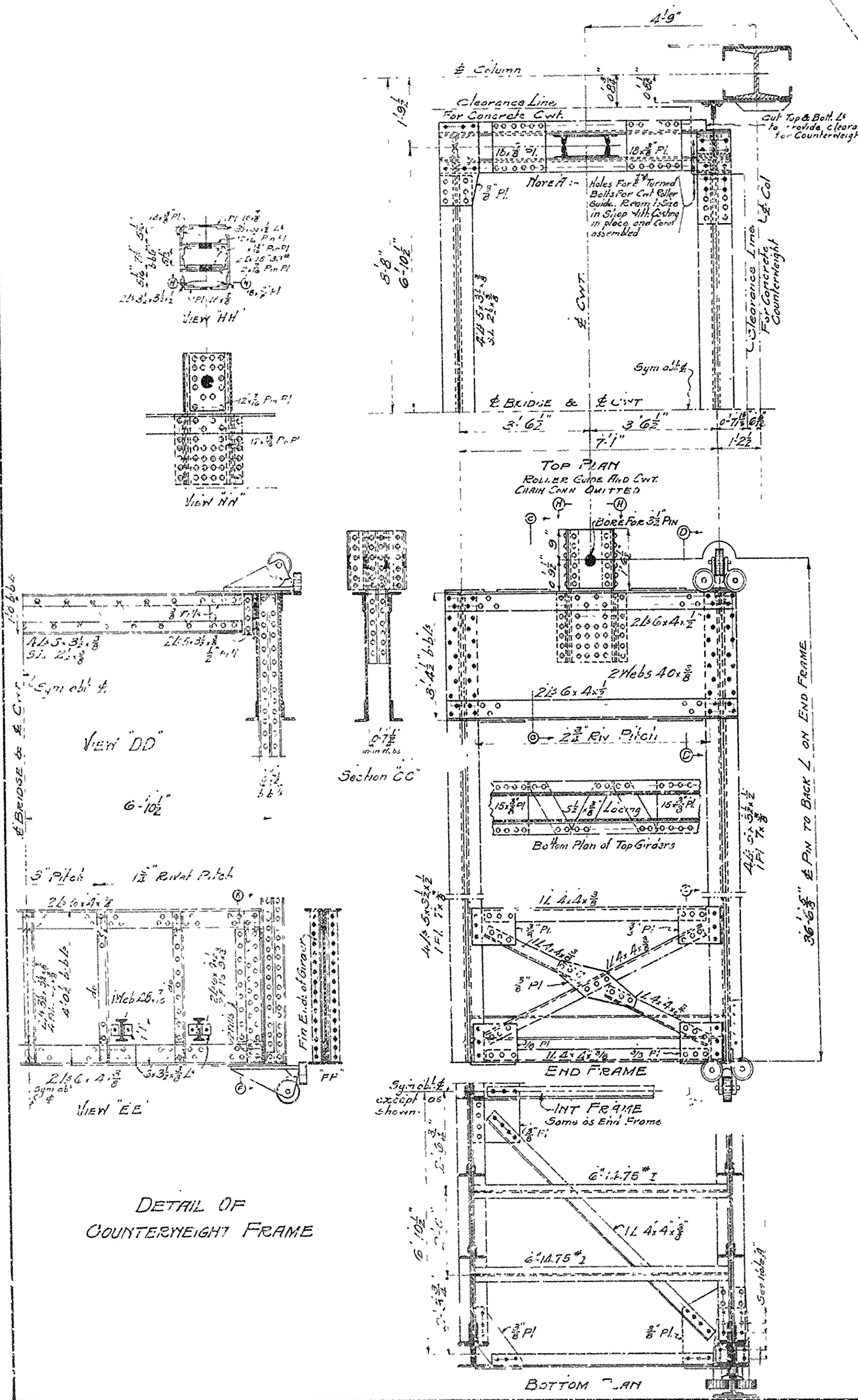
CONT. # C 3658
SHEET # E2

DR No 2735 DRW No 5951



LOWER SECTION OF TOWER COL. ADJACENT TO FIXED END OF LIFT SPAN
 1 Bethlehem H-14-130S #
 2 Side Pls. 22x3
 2B 4x4x3 (Rear Side)
 2B 4x4x3 (Front Side)
 Lace rear face with 5/8" SL
 Use 1/2" Tie Pls.

LOWER SECTION OF TOWER COL. ADJACENT TO EXPAN. END OF LIFT SPAN
 1 Bethlehem H-14-130S #
 2 Side Pls. 22x3
 4B 4x4x3
 Lace rear face with 5/8" SL
 Use 1/2" Tie Pls.



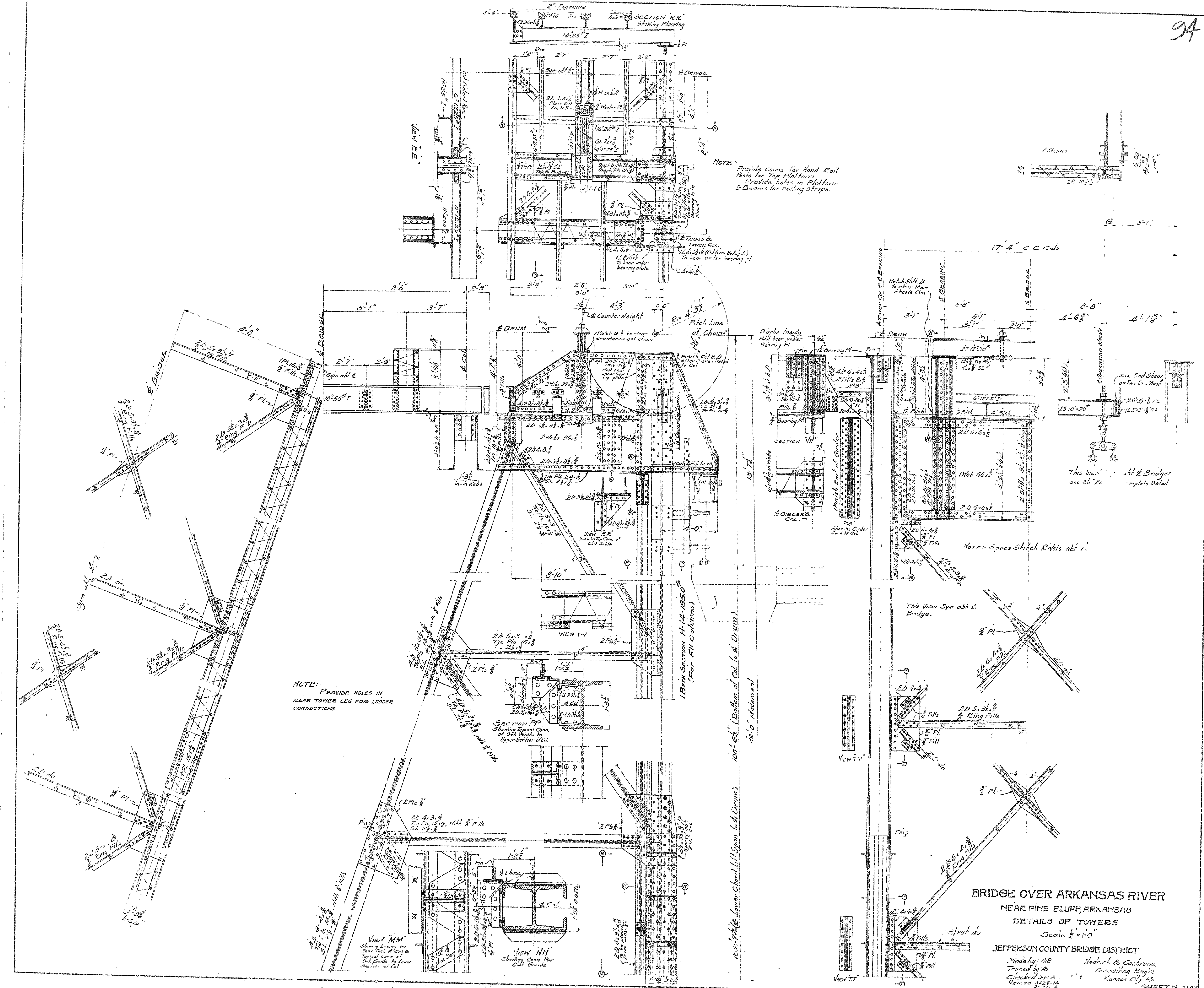
BRIDGE OVER ARKANSAS RIVER
 NEAR FINE BLUFF, ARKANSAS
 DETAILS OF TOWERS
 AND COUNTERWEIGHT FRAME
 Scale 1/2" = 1'-0"

JEFFERSON COUNTY BRIDGE DISTRICT

Made by: AB
 Traced by: RB
 Checked by: ...
 Revised: 3-28-17

Hedrick & Company
 Consulting Eng'rs
 Kansas City, Mo

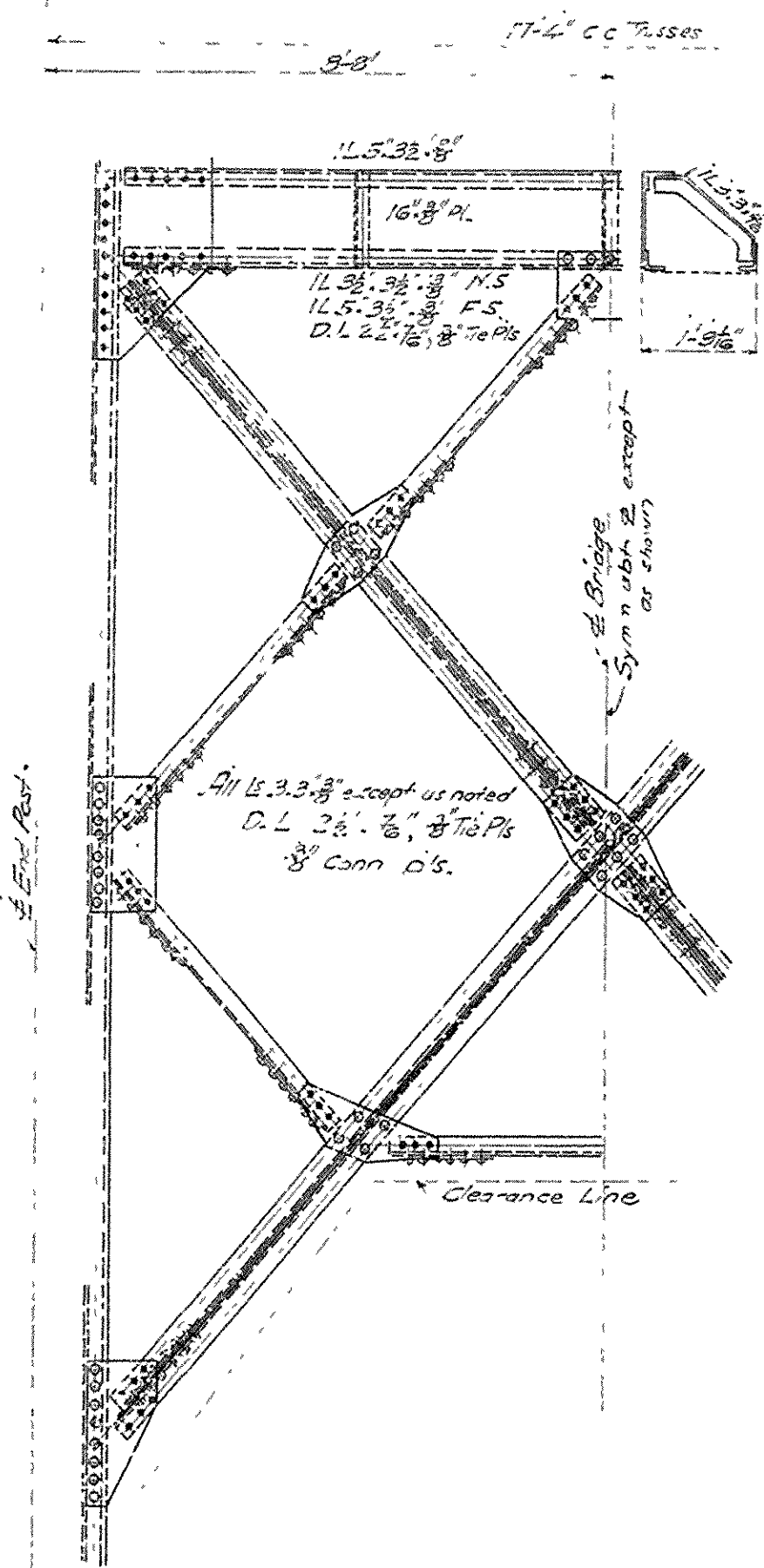
SHEET No. 21 B



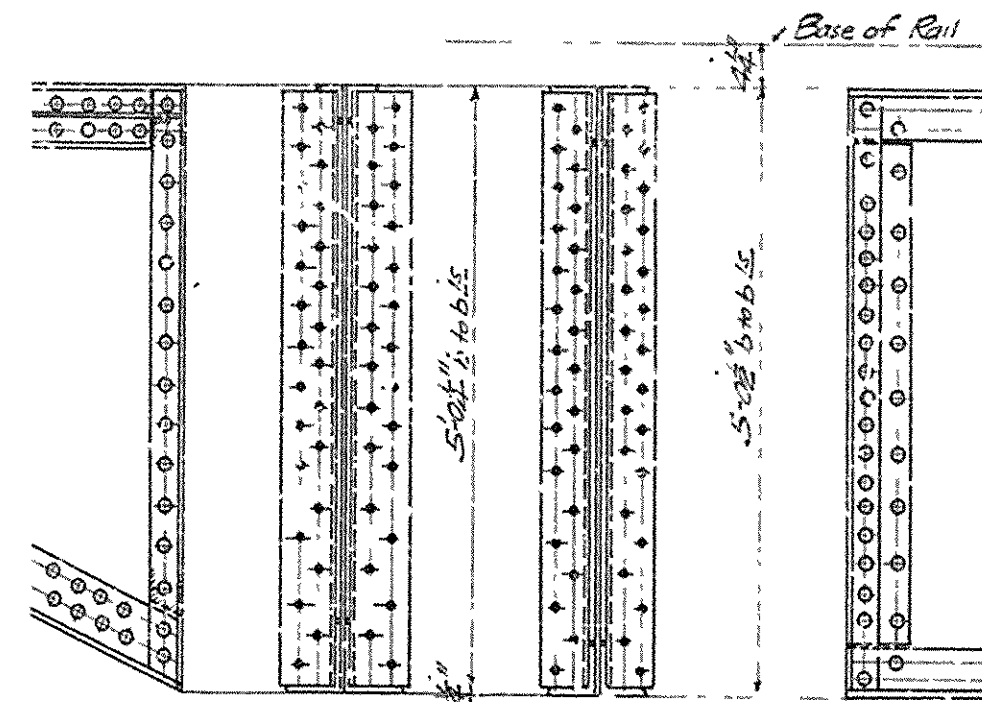
NOTE: Provide Cams for Hand Rail Rats for Top Platform. Provide holes in Platform & Beams for nailing strips.

NOTE: Provide HOLES IN REAR TOWER LEG FOR LADDER CONNECTIONS

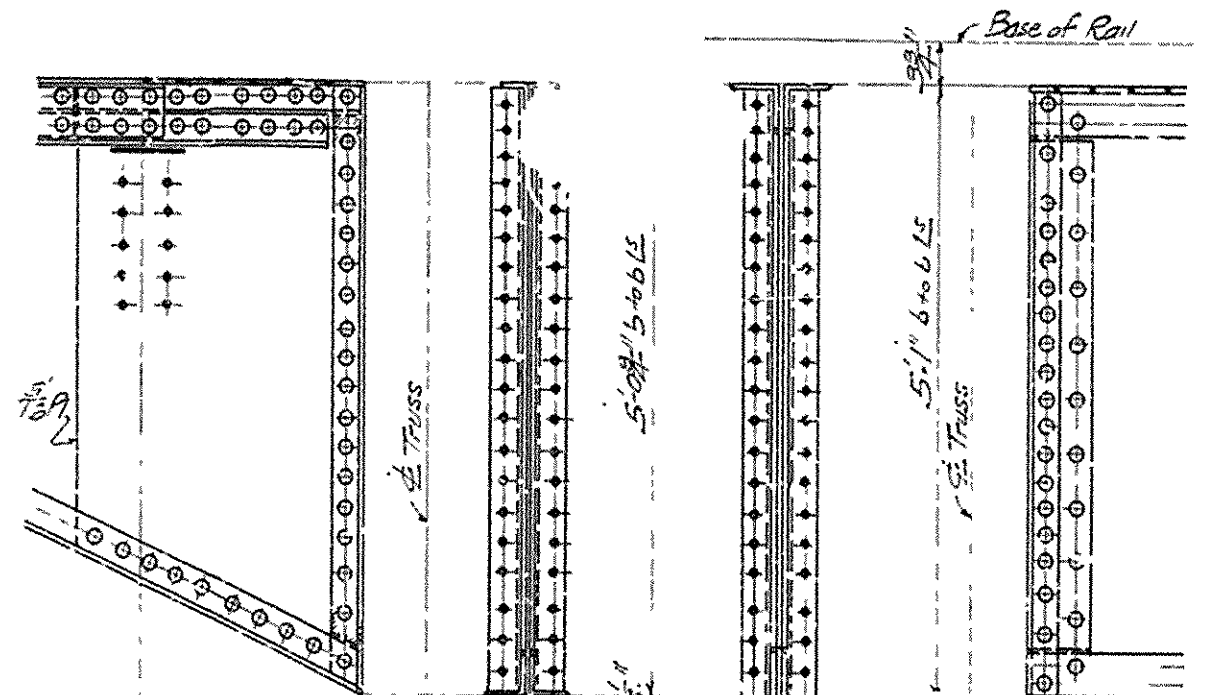
BRIDGE OVER ARKANSAS RIVER
 NEAR PINE BLUFF, ARKANSAS
 DETAILS OF TOWERS
 Scale 1/2" = 1'-0"
 JEFFERSON COUNTY BRIDGE DISTRICT
 Made by: AB Hedrick & Cochrane
 Traced by: AB Consulting Eng'rs
 Checked by: A Kansas City, Mo.
 Revised 3-28-14
 SHEET No. 212B



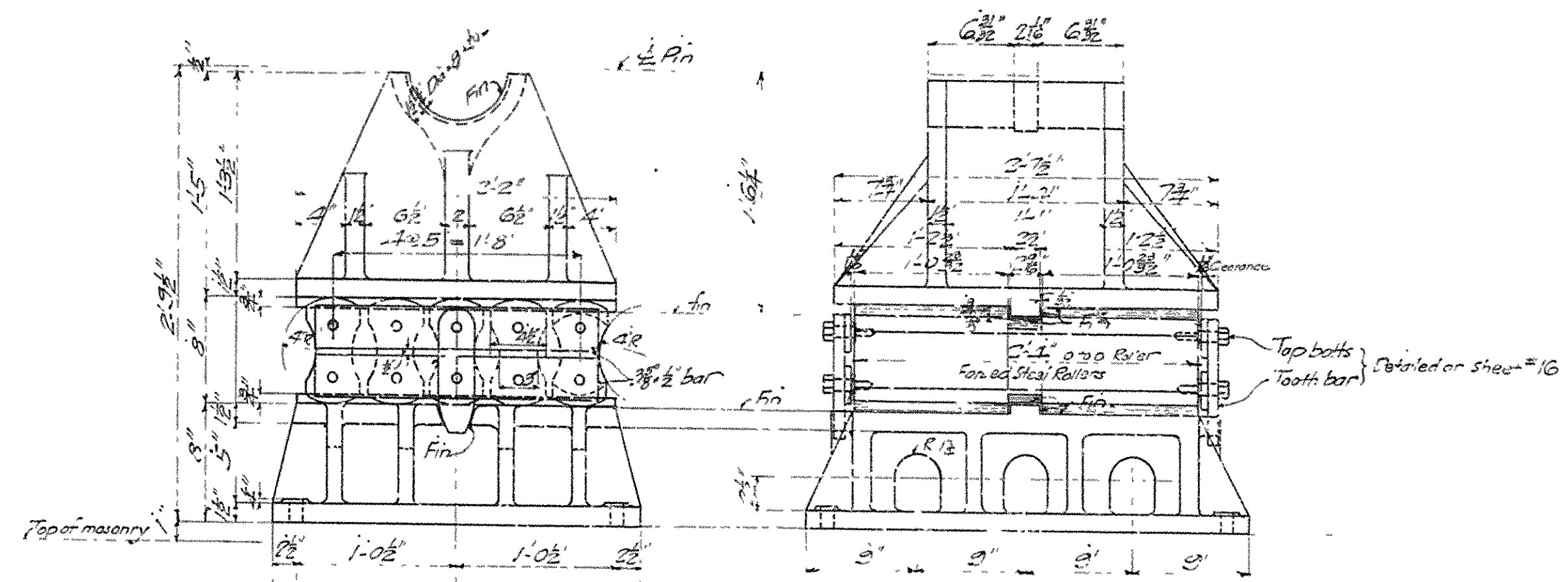
END PORTAL
Scale 1/4" = 1'-0"



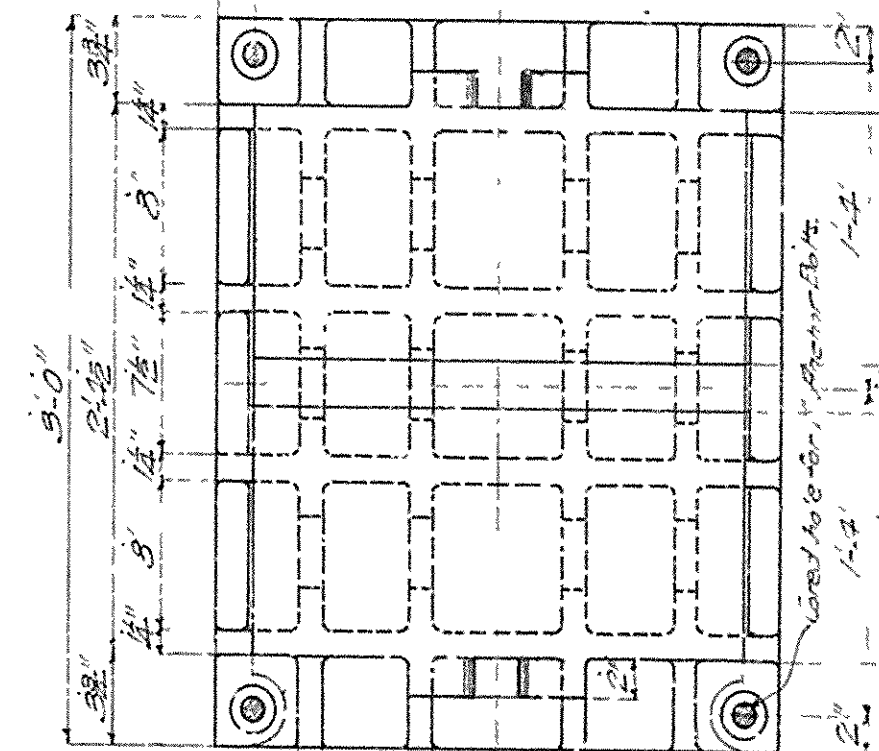
END CONN FOR INT. CANTILEVER & FLOOR BEAMS
Details not shown are same as those for 23'-4" span



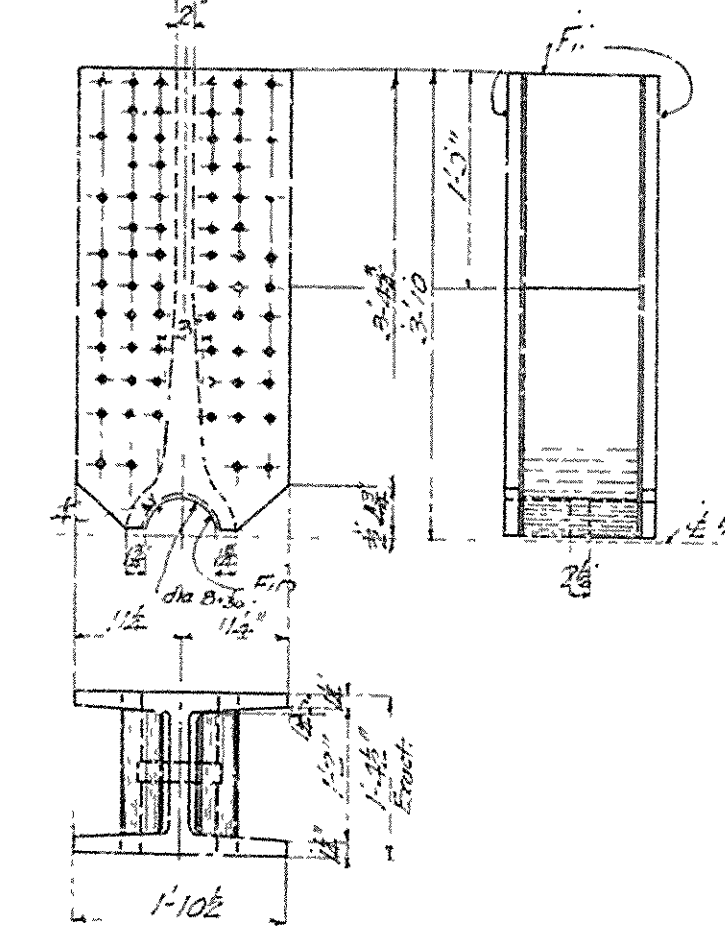
END CONN FOR END CANTILEVER & FLOOR BEAMS
Details not shown are same as those for 23'-4" span
Scale 3/8" = 1'-0"



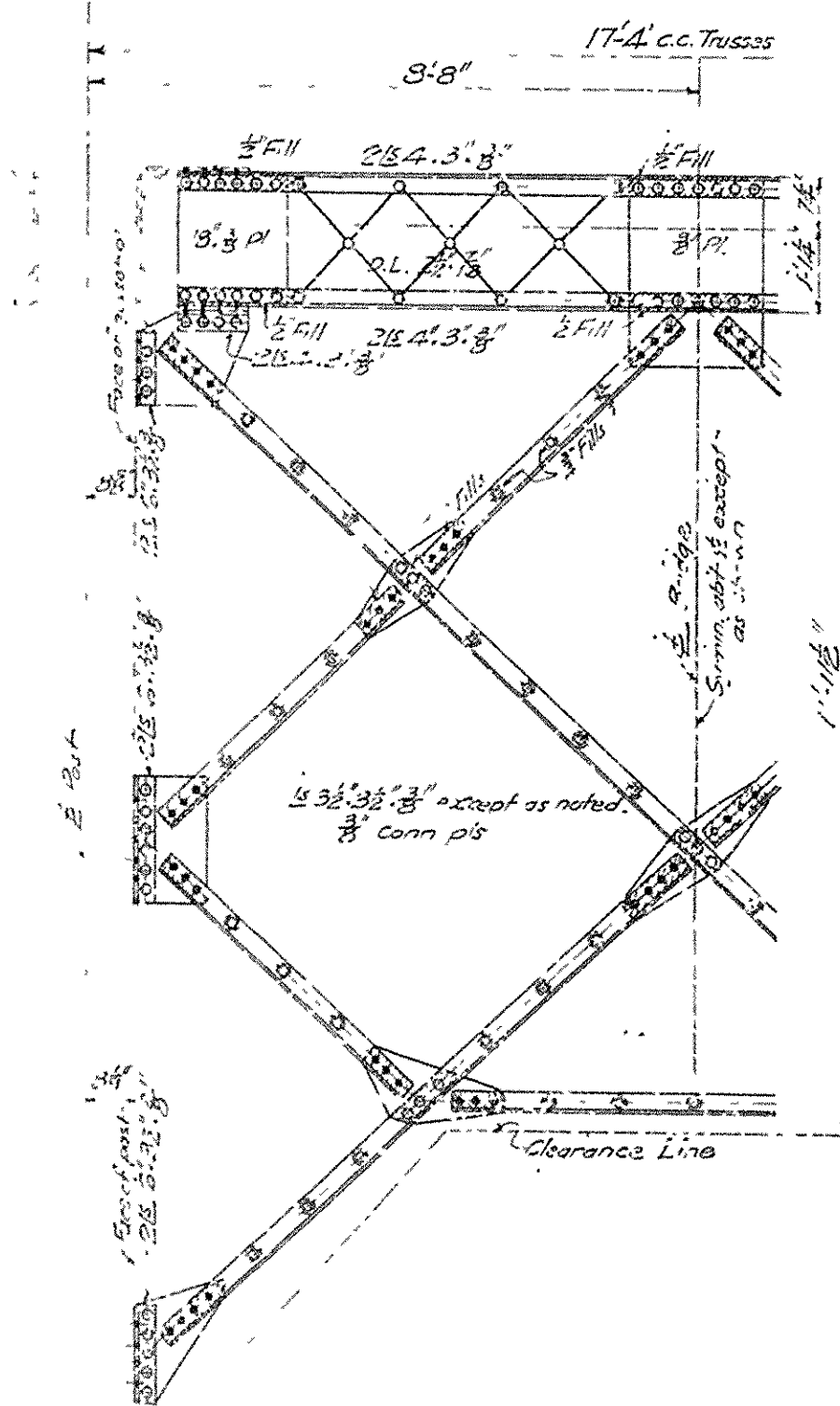
DETAILS OF EXPANSION SHOE
Details of fixed shoe same as for 23'-4" span, (See sheet #16)
Scale 1/2" = 1'-0"



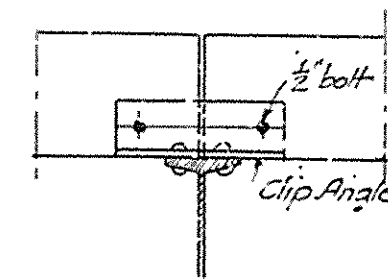
DETAIL OF ANCHOR BOLTS
(For Expansion shoes)
Scale 1/2" = 1'-0"



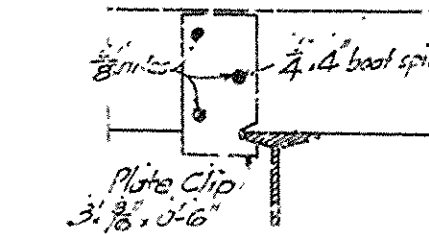
DETAILS OF STEEL CASTING AT L
Scale 3/8" = 1'-0"



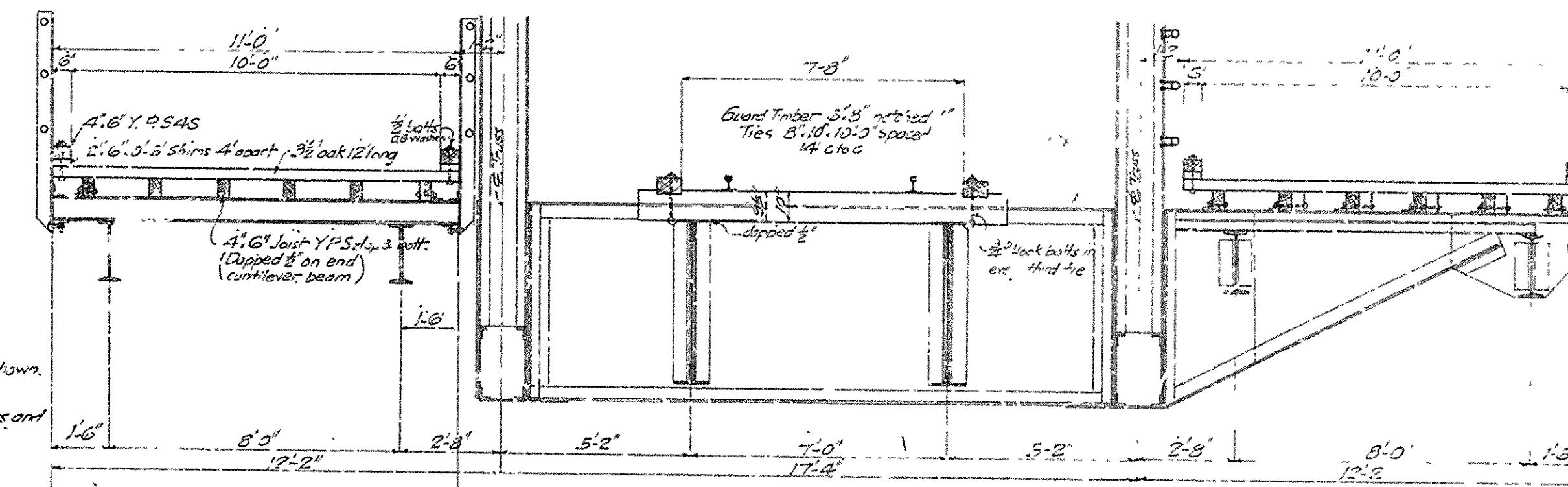
SWAY BRACING
Scale 3/8" = 1'-0"



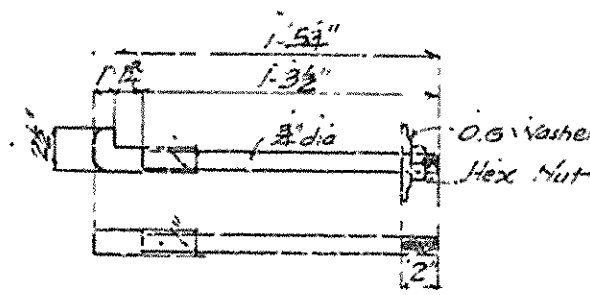
Notes: Outside stringers bolt spaced as shown.
Inside stringers lapped use clip for outside stringers and clip for inside stringers as shown on plan of floor.



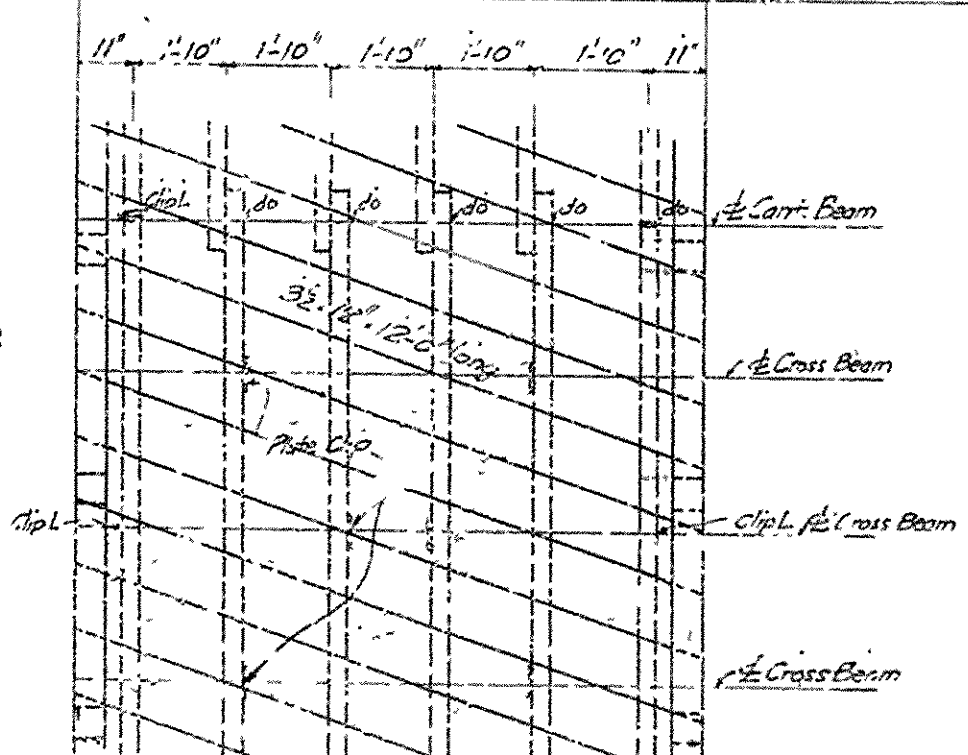
DETAIL OF HIGHWAY STRINGER CONNECTION.
Scale 1/2" = 1'-0"



CROSS SECTION OF FLOOR
Scale 3/8" = 1'-0"



DETAIL OF HOOK BOLTS
Scale 1/2" = 1'-0"



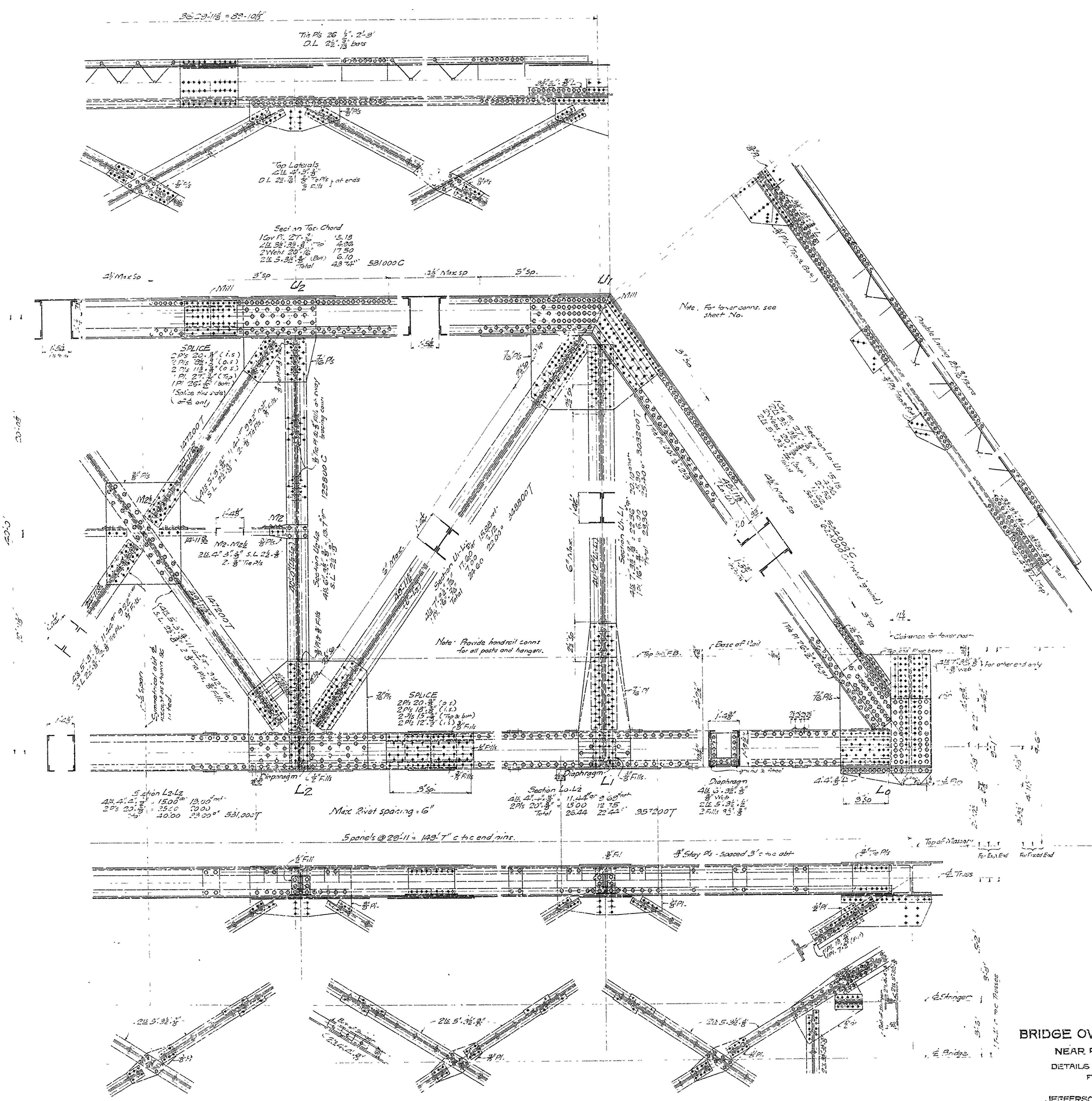
PLAN OF FLOOR

BRIDGE OVER ARKANSAS RIVER
NEAR PINE BLUFF, ARKANSAS

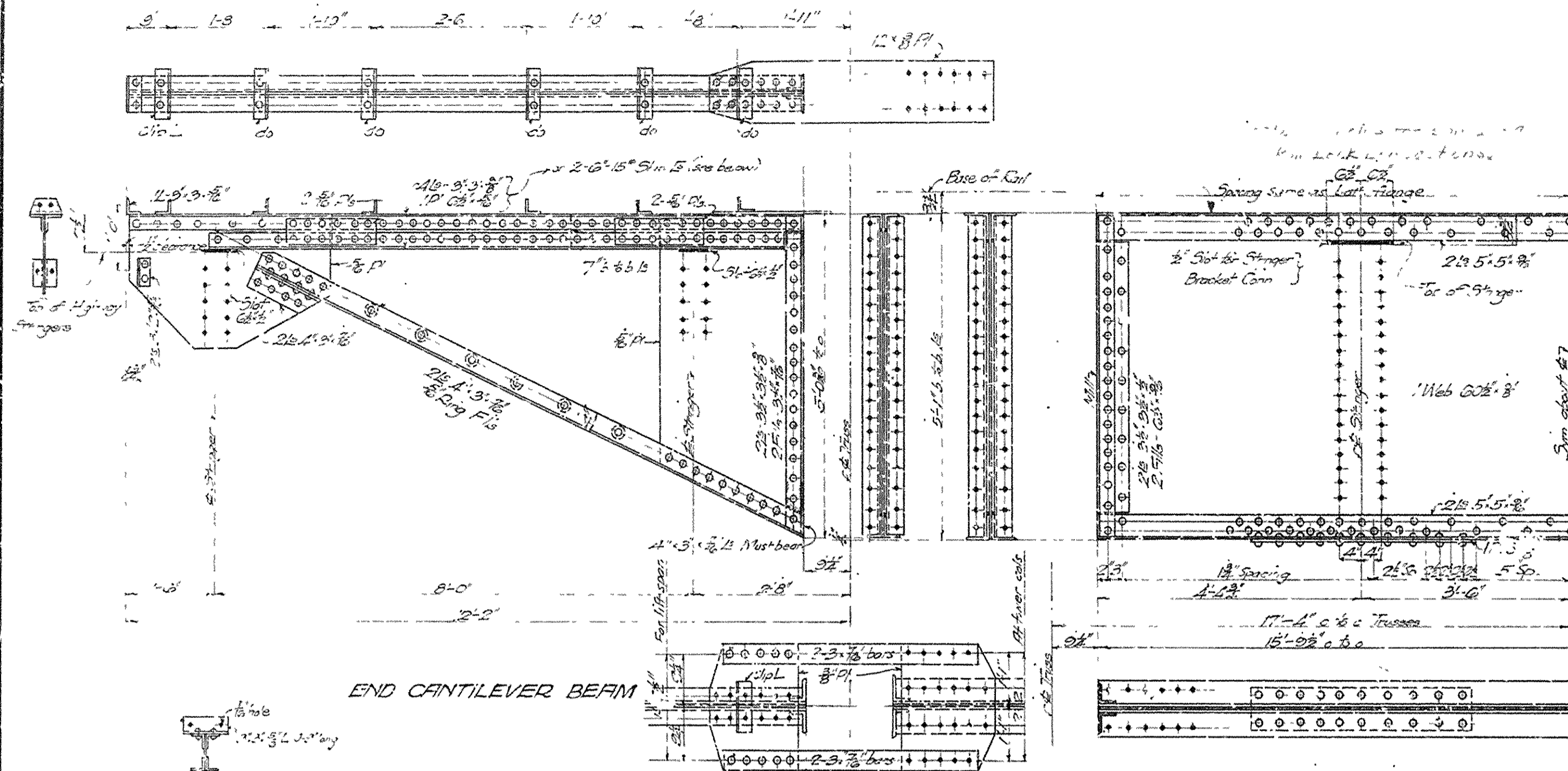
DETAILS OF PORTAL, SWAY BRACING, SHOES, ETC.
FOR 143'-7" SPAN & CROSS SECTION OF FLOOR
Scale as shown

JEFFERSON COUNTY BRIDGE DISTRICT

Made by A.M.B. & J.M. H.H. Cochrane,
Checked by J.M. 1-20-14 Consulting Engineer
Jefferson City, Mo.

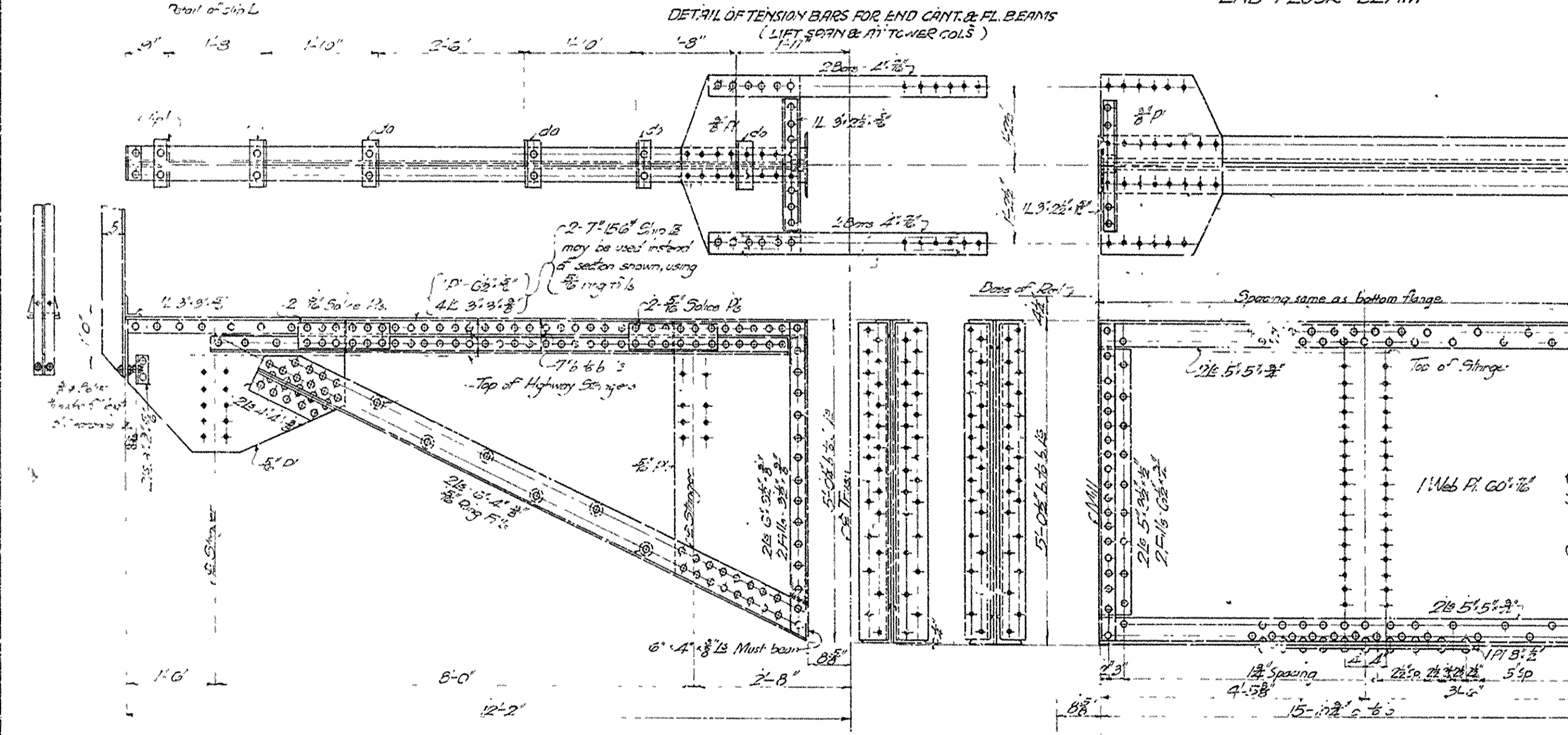


BRIDGE OVER ARKANSAS RIVER
 NEAR PINE BLUFF, ARKANSAS
 DETAILS OF TRUSSES TO LATERALS
 FOR 14-3-7 SPAN
 Scale 3/4" = 1'-0"
 JEFFERSON COUNTY BRIDGE DISTRICT
 Made by J.M.B. Metric & Cochrane
 Checked by L.M.A. Drafting Eng'r
 Kansas City, Mo.



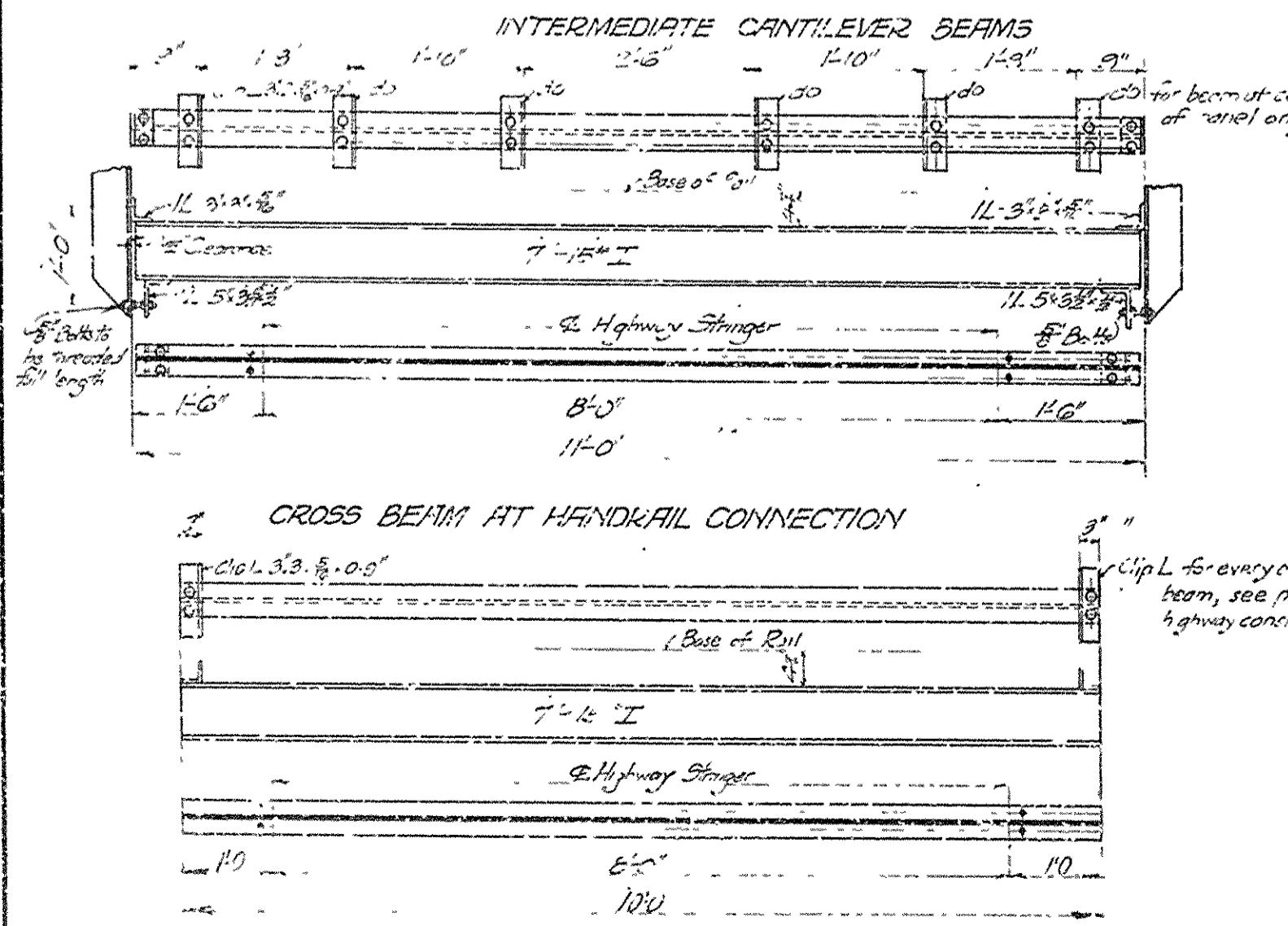
END CANTILEVER BEAM

END FLOOR BEAM



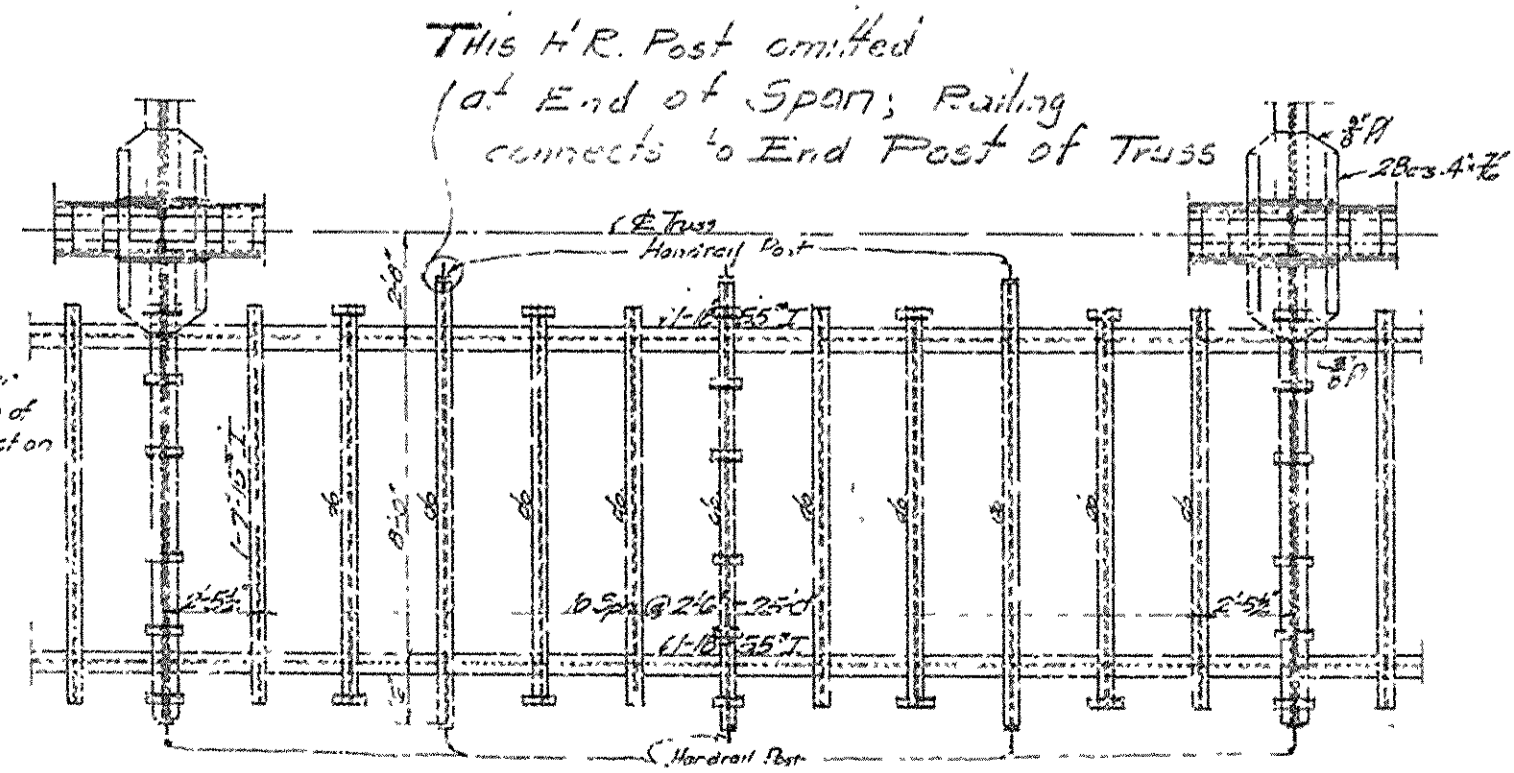
INTERMEDIATE CANTILEVER BEAMS

INTERMEDIATE FLOOR BEAM

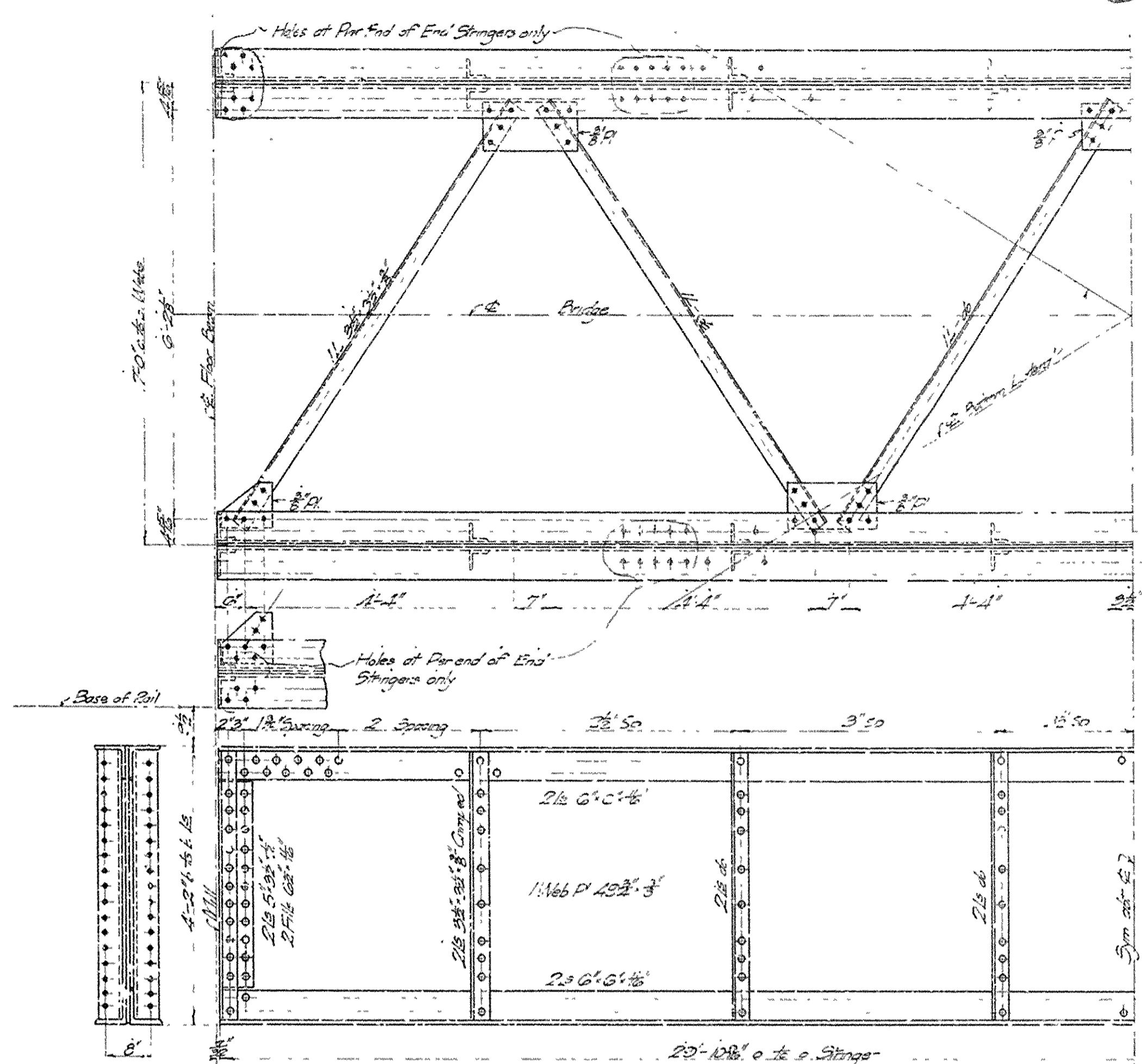


CROSS BEAM AT HANDRAIL CONNECTION

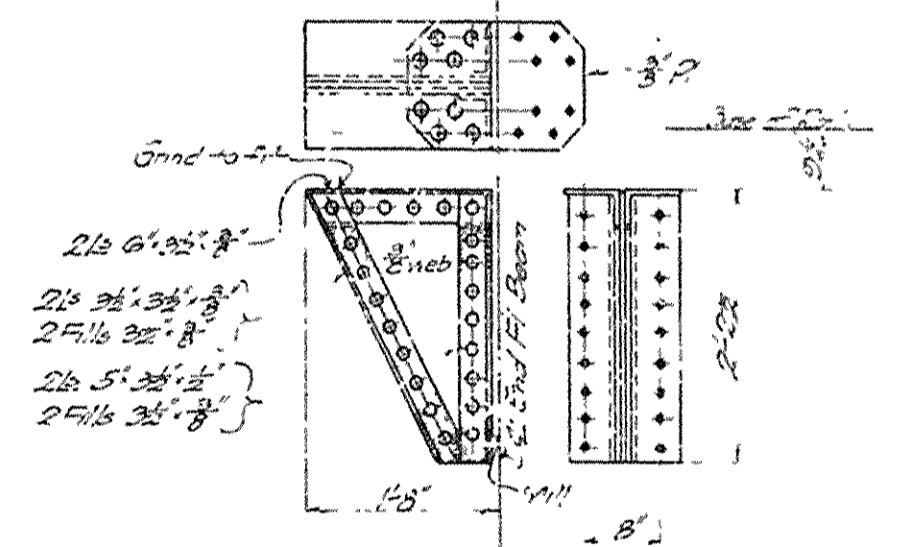
CROSS BEAMS BETWEEN HANDRAIL CONNECTIONS



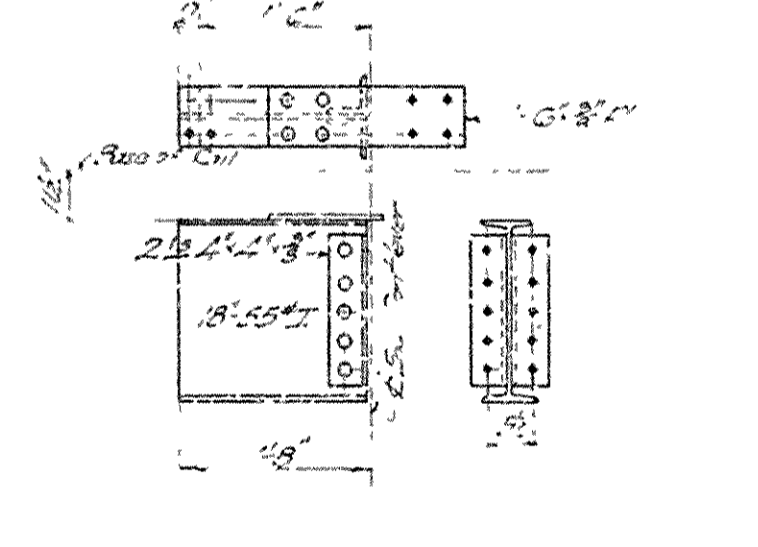
PLAN OF HIGHWAY CONSTRUCTION



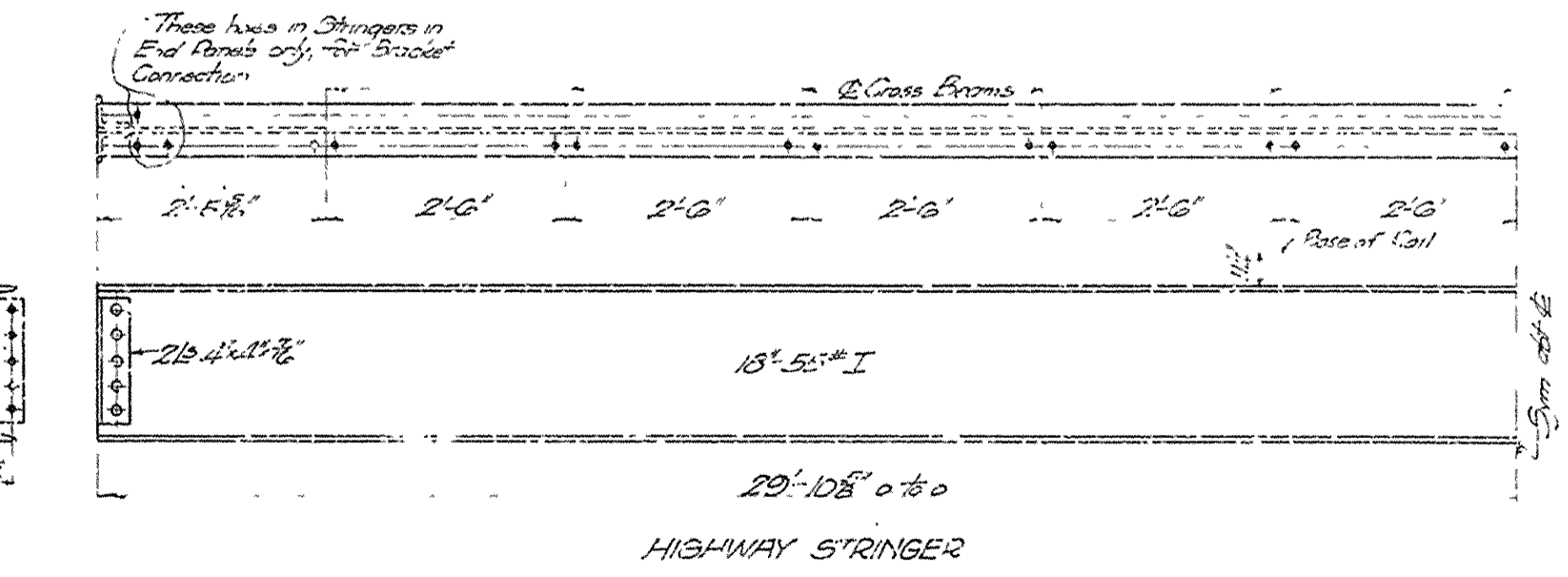
DETAIL OF STRINGERS



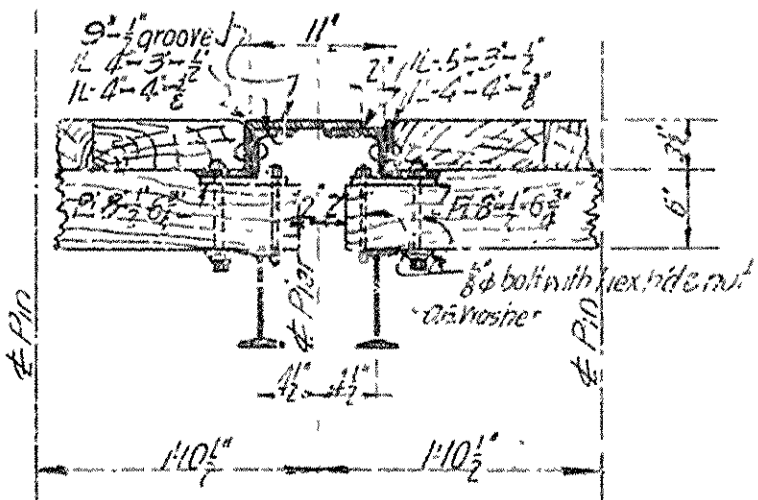
DETAIL OF RAILWAY STRINGER BRACKET



DETAIL OF HIGHWAY STRINGER BRACKET

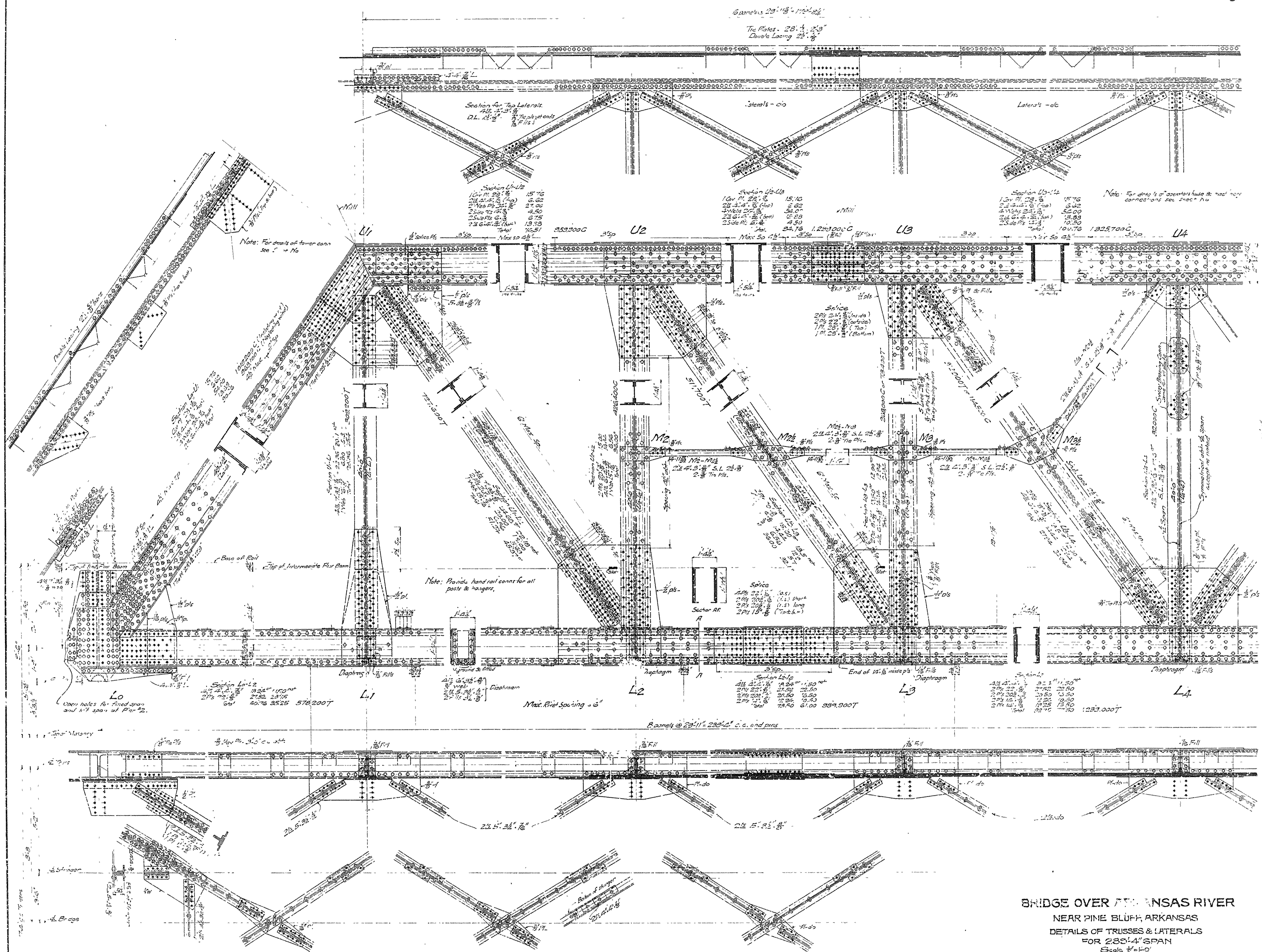


HIGHWAY STRINGER

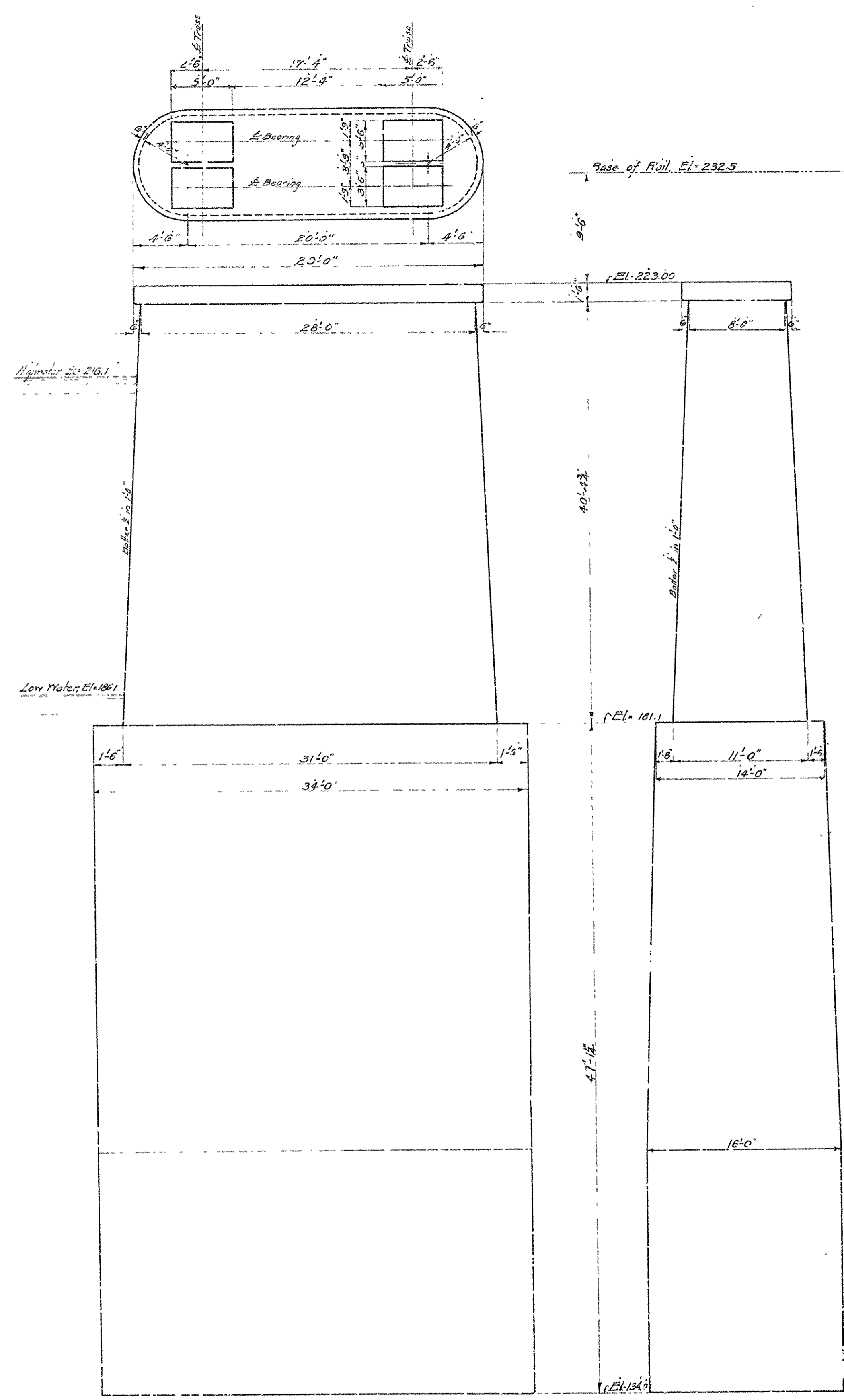


EXPANSION JOINT

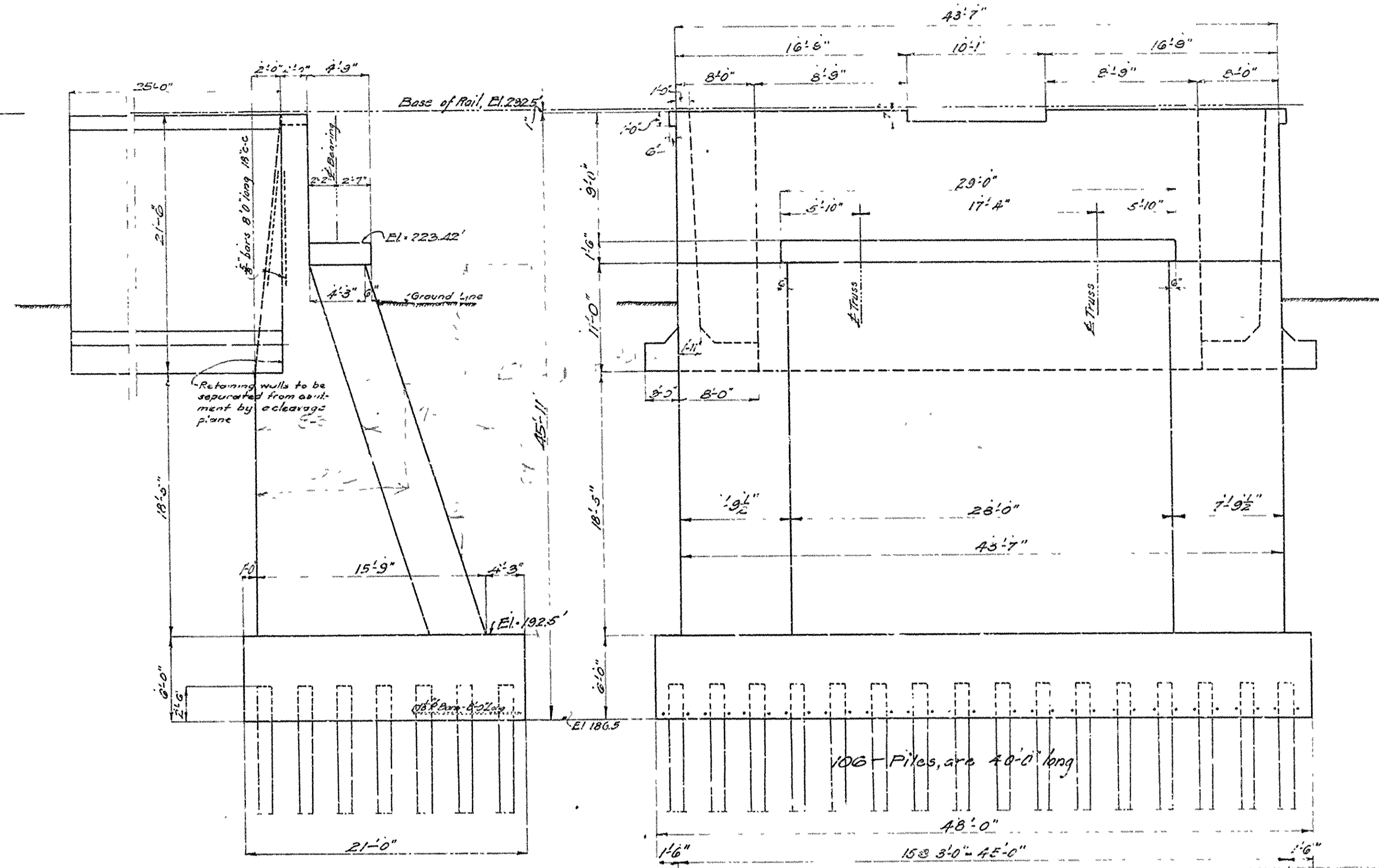
BRIDGE OVER ARKANSAS RIVER
 NEAR PINE BLUFF, ARKANSAS
 DETAILS OF THE FLOOR SYSTEM
 FOR 239'-4" SPAN
 Scale: 3/4"=1'-0"
 JEFFERSON COUNTY BRIDGE DISTRICT
 Made by J.M.B. & J.L. Heshels & Cochrane
 Traced by L.H. F. H. H. Consulting Engineer
 Checked by J.L. H. H. Kansas City, Mo.
 Revised 11-29-14



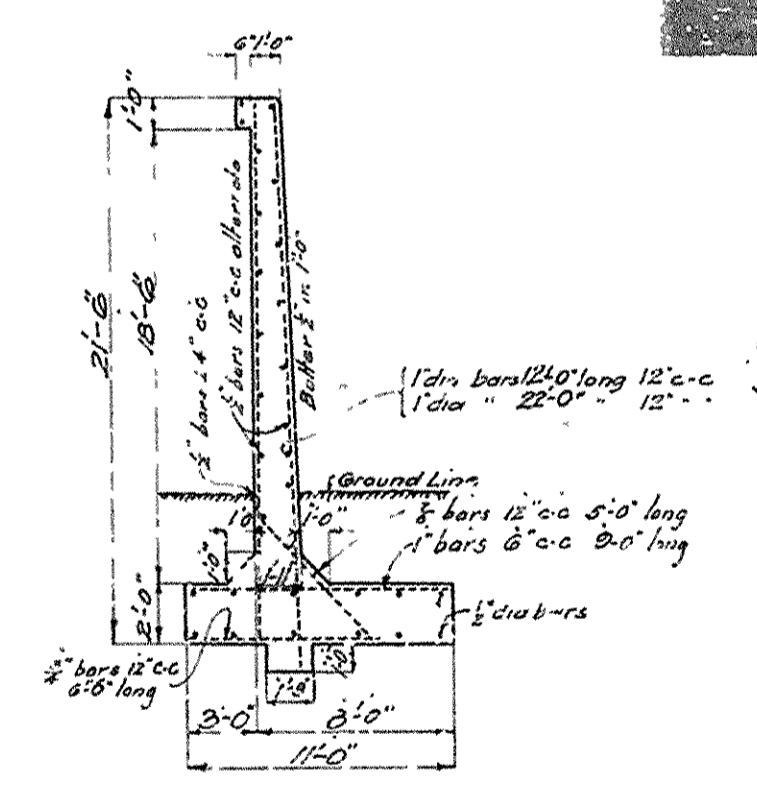
BRIDGE OVER THE ARKANSAS RIVER
 NEAR PINE BLUFF, ARKANSAS
 DETAILS OF TRUSSES & LATERALS
 FOR 283'-4" SPAN
 Scale 1/4" = 1'-0"
 JEFFERSON COUNTY BRIDGE DISTRICT
 Made by A. H. B. Checked by C. W. G.
 Treated by J. M. H. B. Checked by E. G. S.
 Checked by S. L. L. Kansas City, Mo.



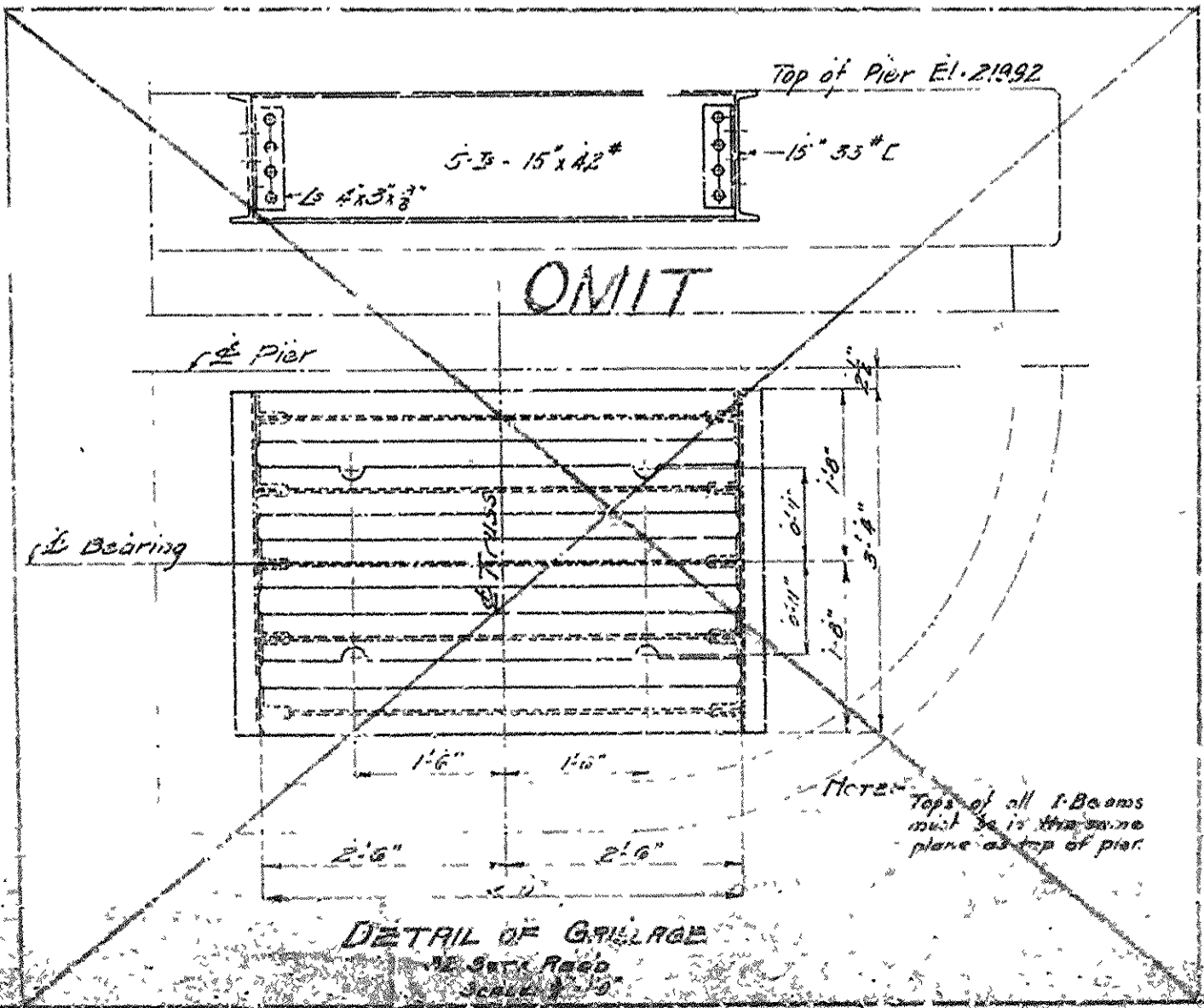
DETAIL OF PIERS



DETAIL OF ABUTMENT



CROSS-SECTION OF RETAINING WALLS



DETAIL OF GIRAGE

BRIDGE OVER ARKANSAS RIVER
NEAR PINE BLUFF, ARKANSAS
DETAILS OF SUBSTRUCTURE

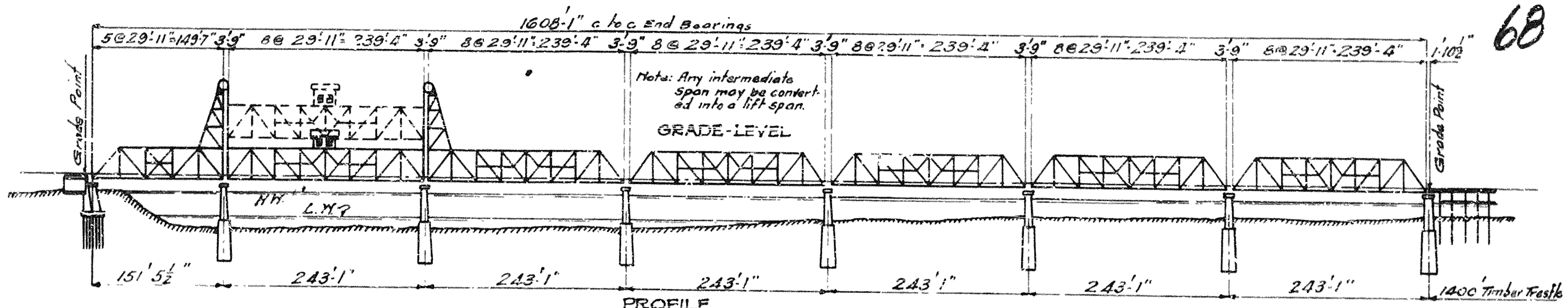
Scale 1/4" = 1'-0" except as shown
JEFFERSON COUNTY BRIDGE DISTRICT

Made By: J.H. S. 4-12
Traced By: R.W. S. 5-12
Checked By: R.W. S. 1-14
Revised: 1-29-14

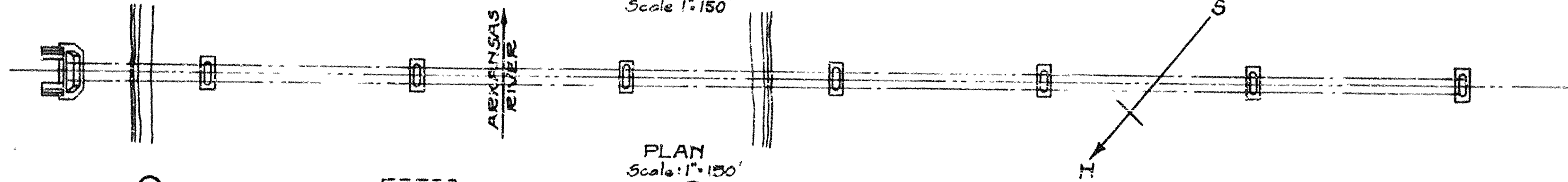
Hedrick & Co. Inc.
Consulting Engrs.
Kansas City, Mo.

SHEET No. 15

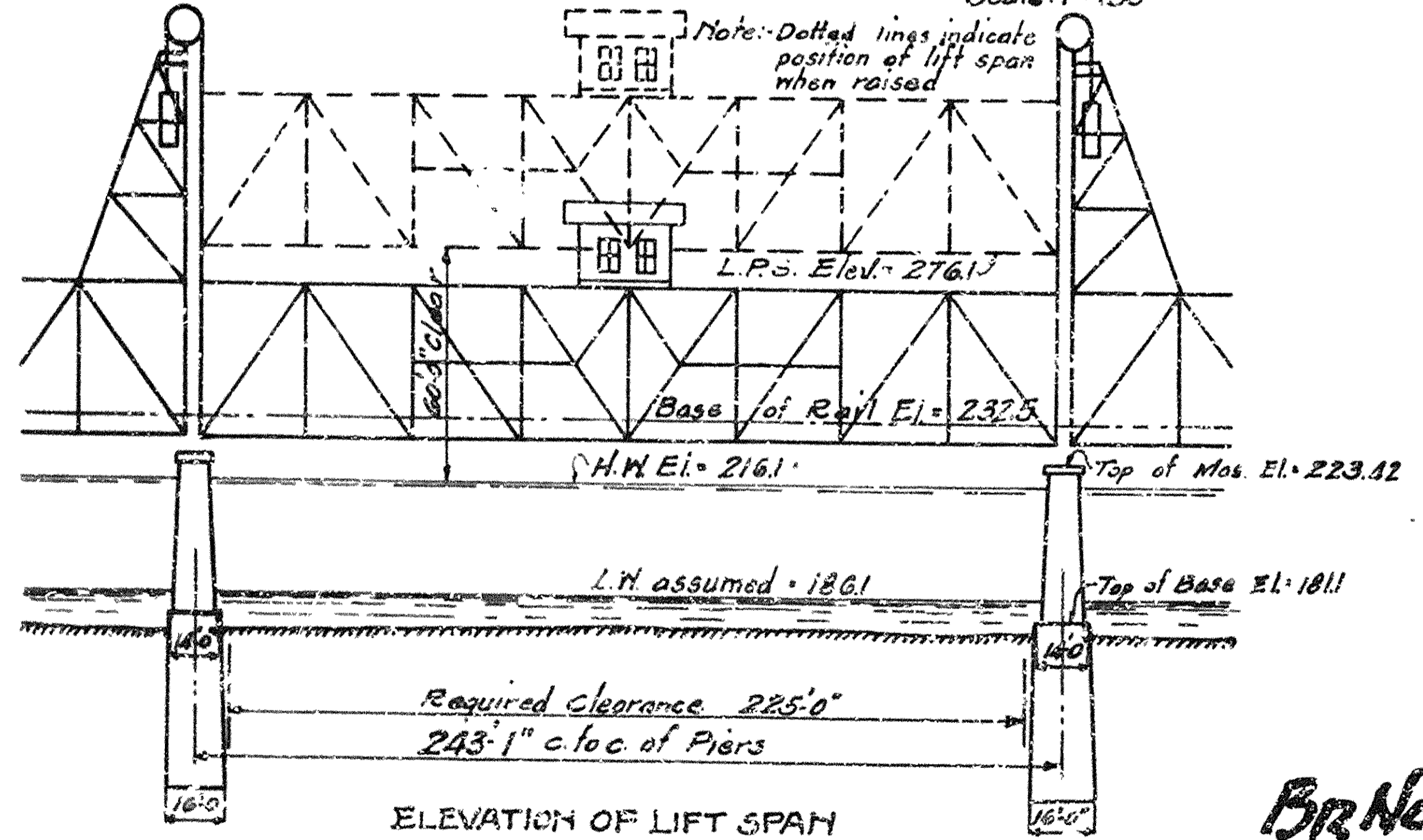
BR No 2133 DRWG No 5943 16-25



PROFILE
Scale 1" = 150'



PLAN
Scale: 1" = 150'



ELEVATION OF LIFT SPAN
Scale 1" = 60'

Note: Elevations refer to Biloxi Datum

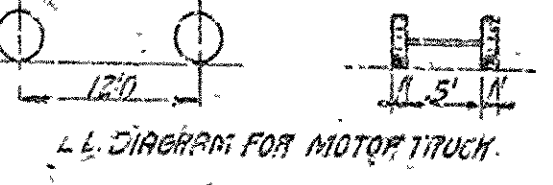
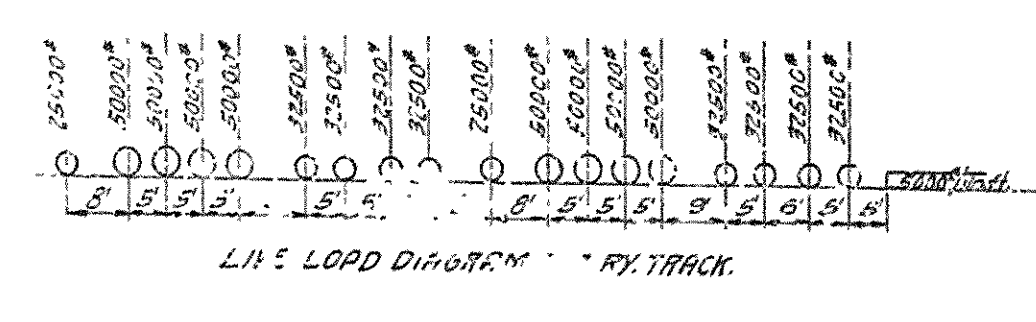
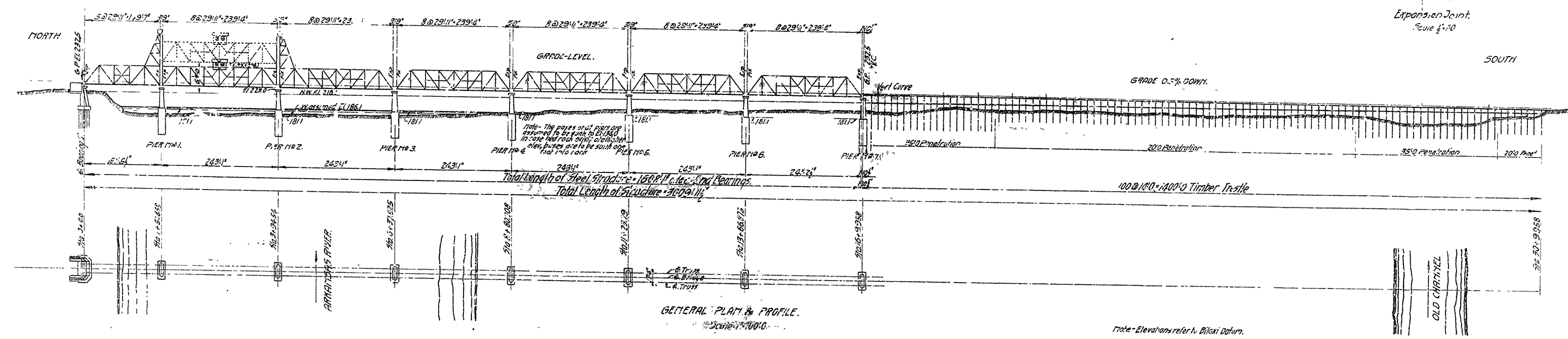
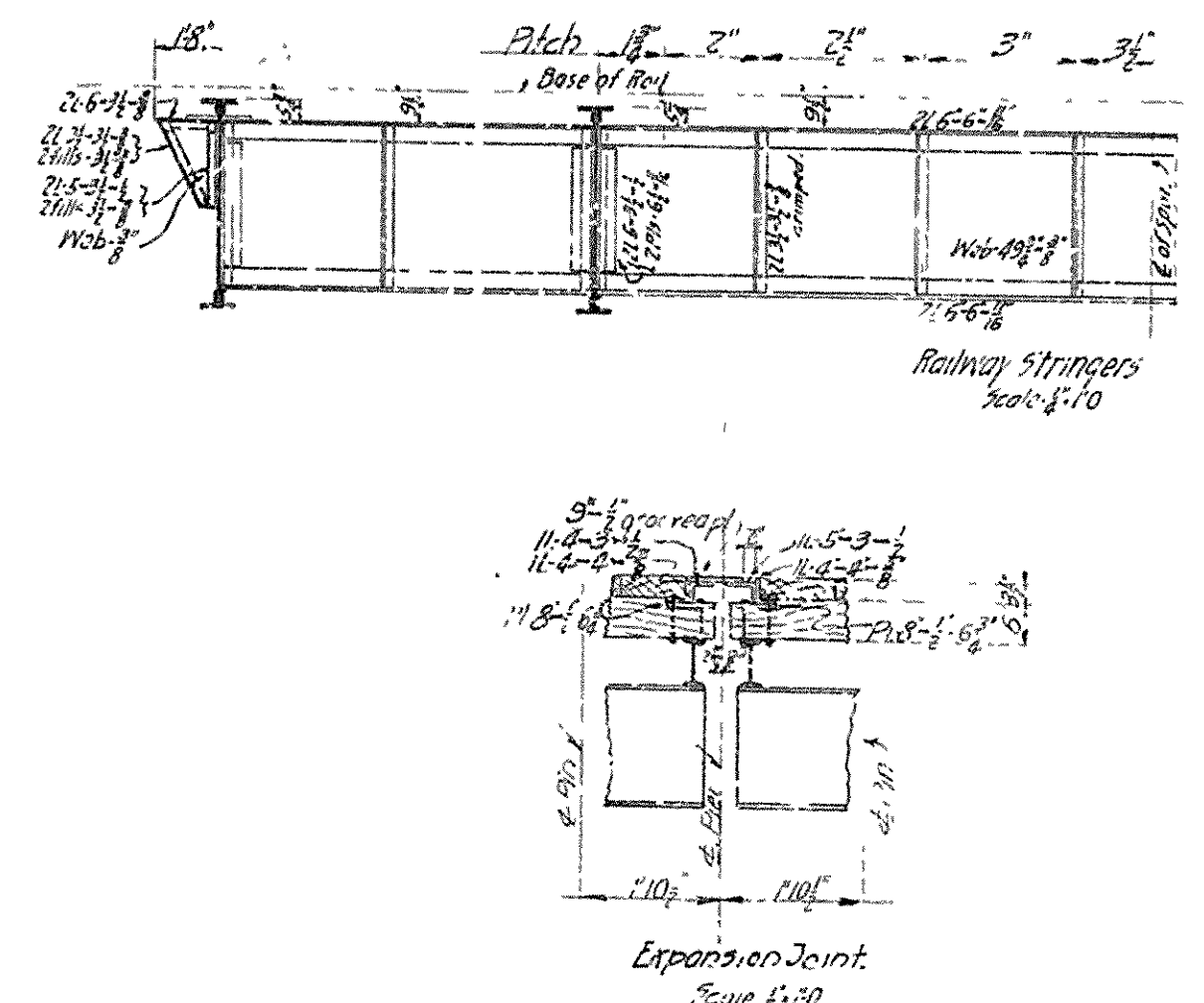
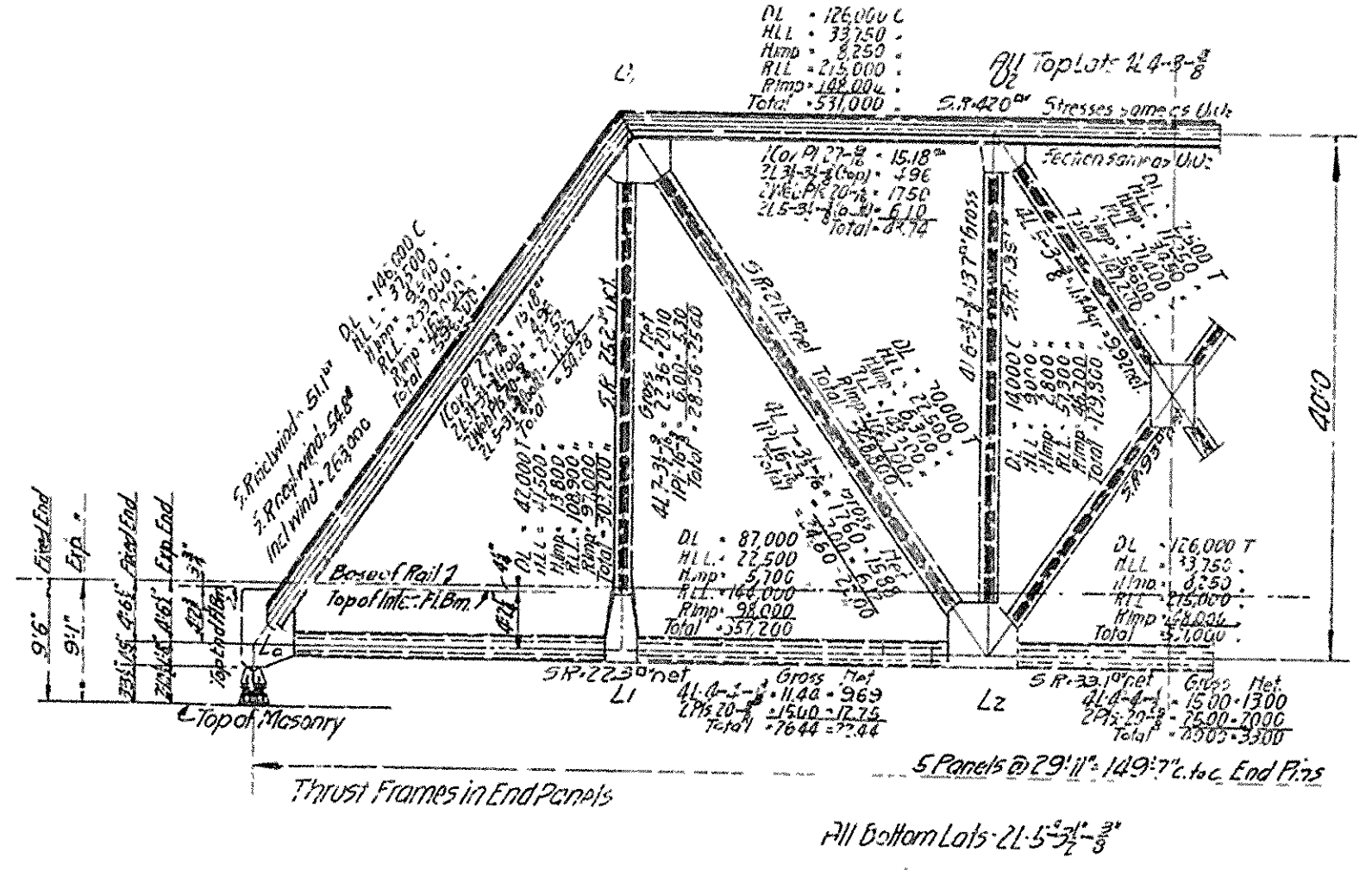
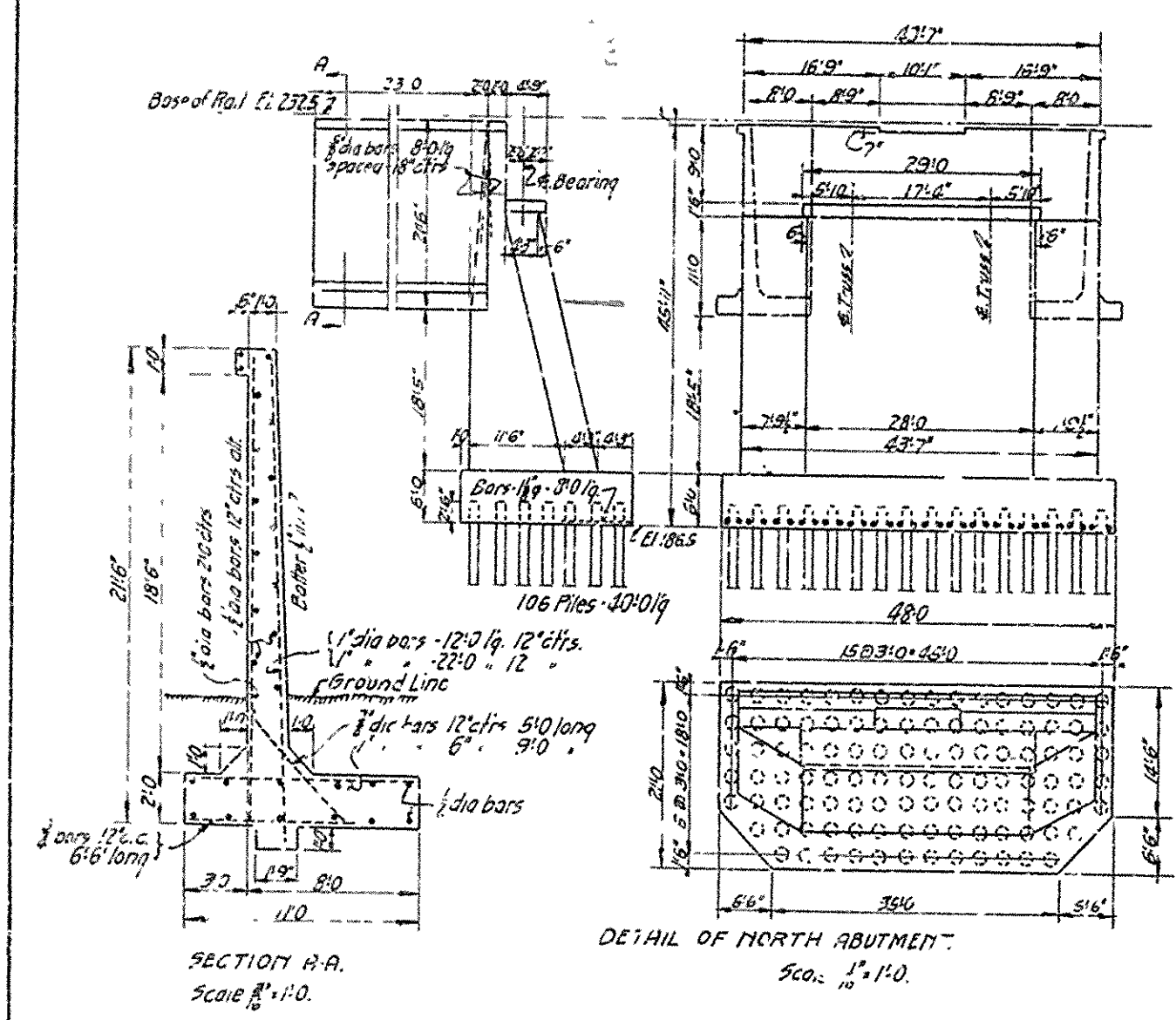
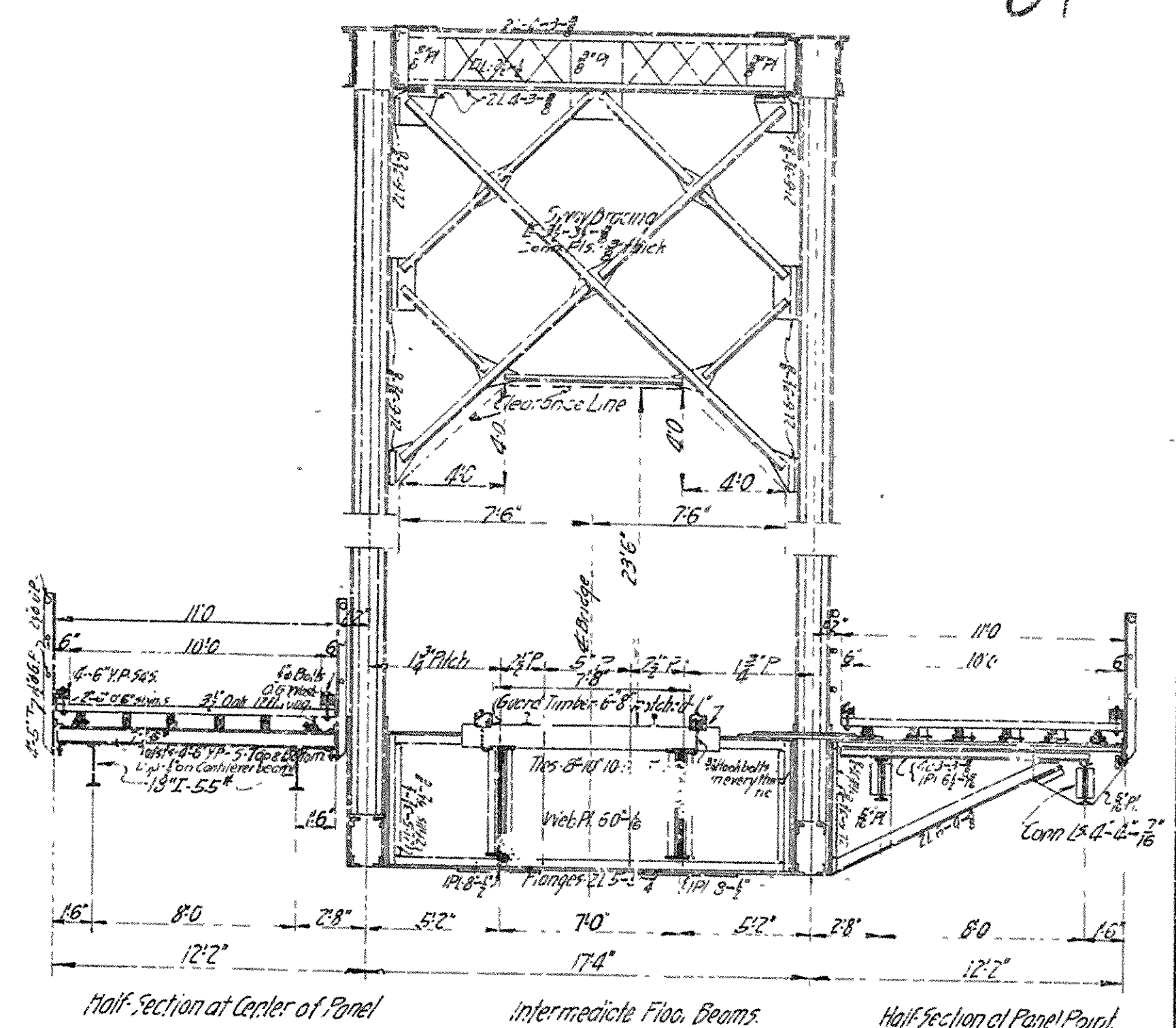
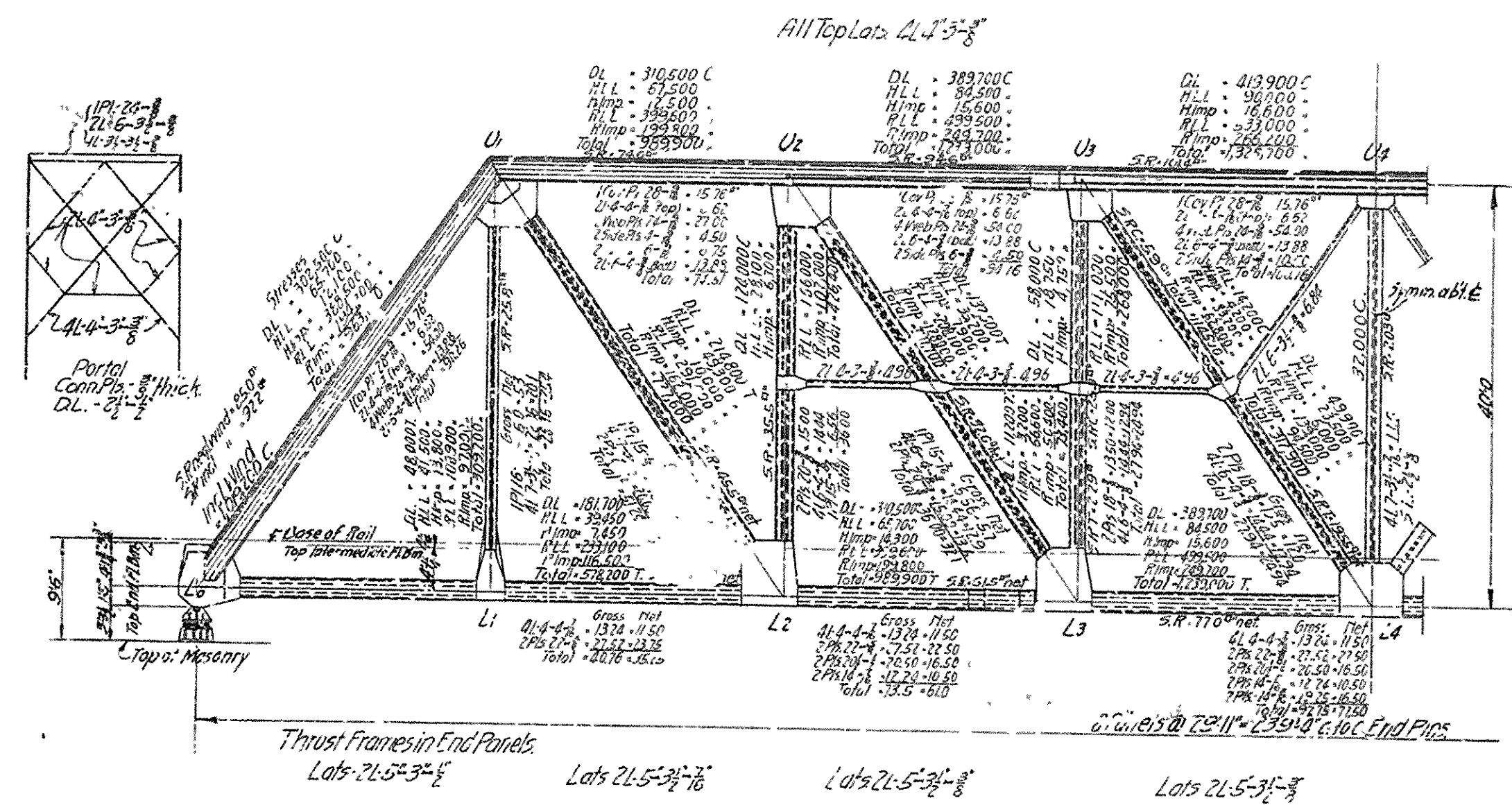
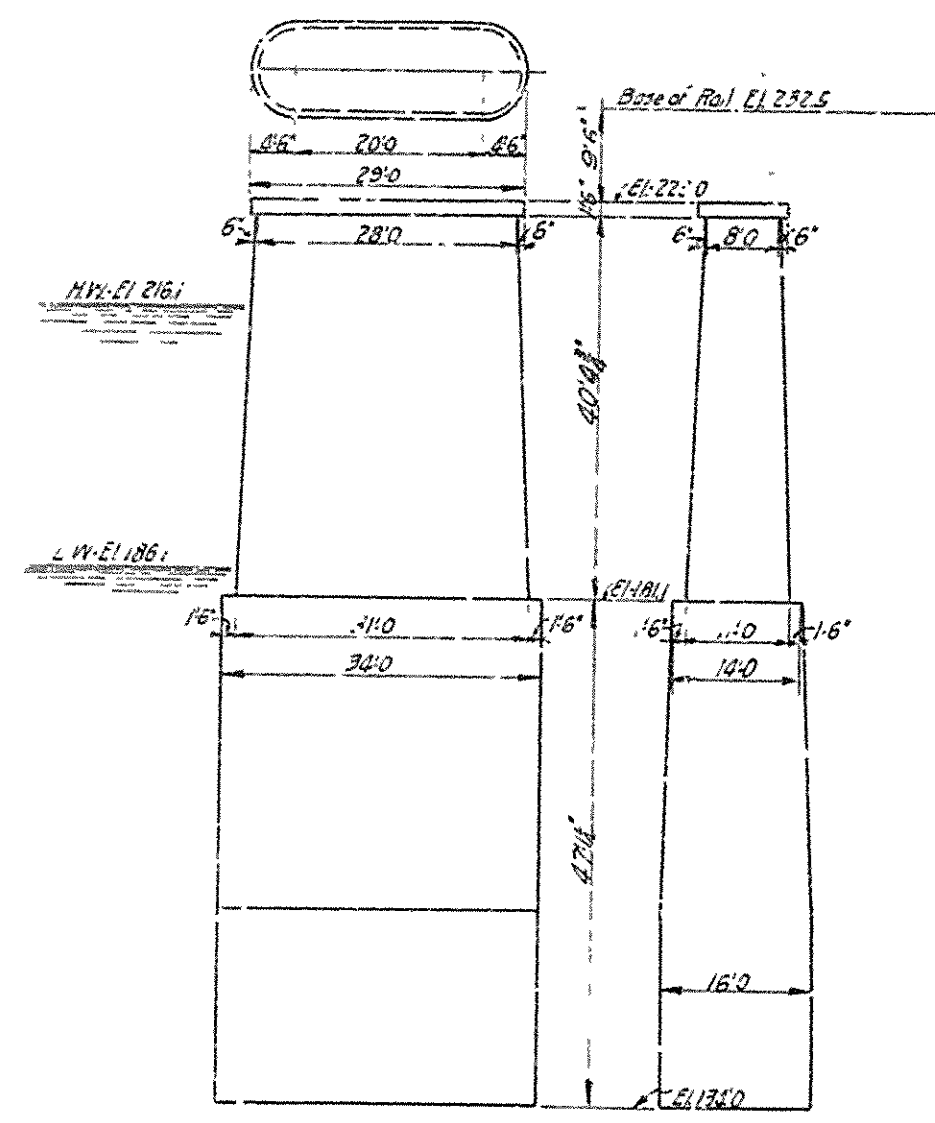
PROPOSED BRIDGE OVER ARKANSAS RIVER
NEAR PINE BLUFF ARKANSAS
GENERAL PLAN & PROFILE SHOWING
VERTICAL AND HORIZONTAL CLEARANCES
Scales as shown
JEFFERSON COUNTY BRIDGE DISTRICT

Br No 2133

Hedrick & Cochran,
Consulting Engineers,
Kansas City, Mo.
Dec. 10, 1913

Draw No 5942

SHEET No. 14-A

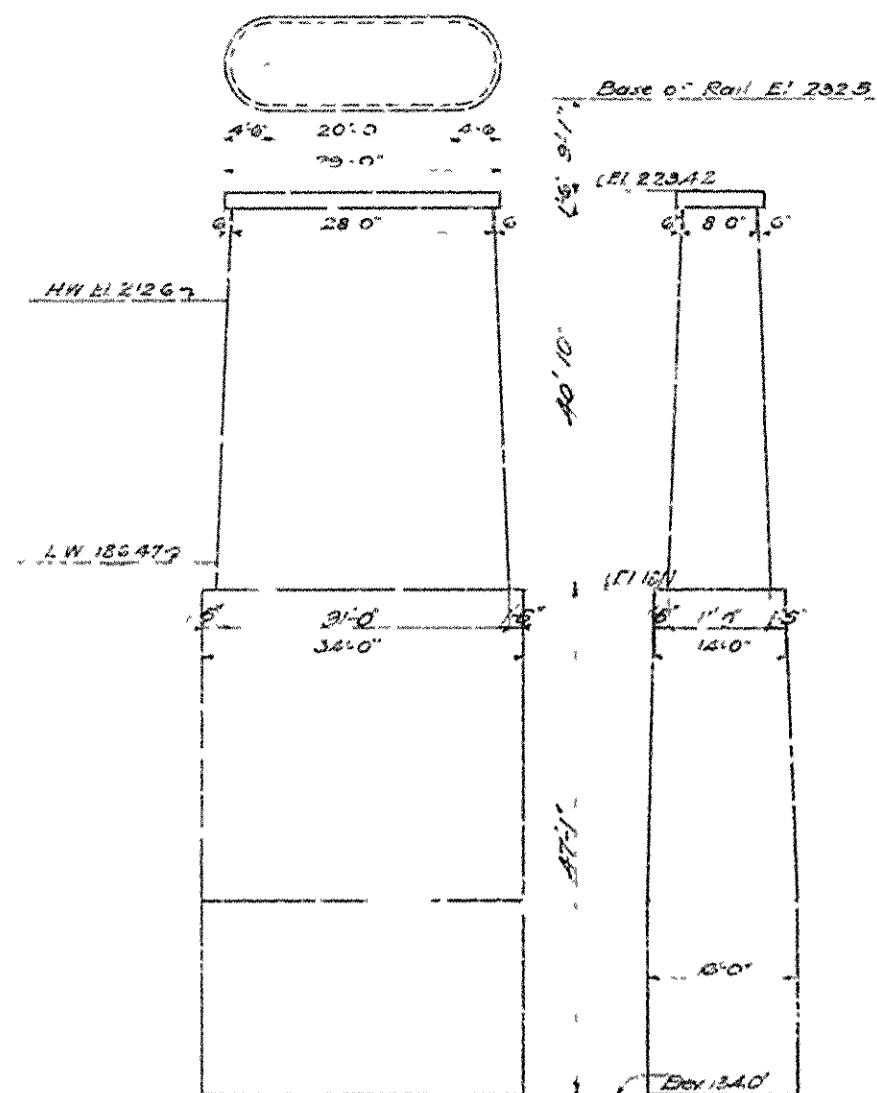


LIVE LOADS FOR ROADWAYS
Live Load for Automobiles, Cattle, Horses, and Motor Trucks or 165' span.
Live Load for Trusses - 250' spans = 80' span.
Live Load for Trusses - 145' span = 60' span.

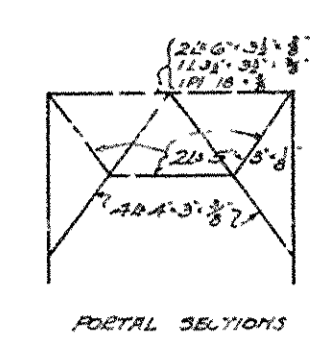
IMPACT FORMULAE
For Railway Loads = 200' span
For Highway Loads = 800' span

BRIDGE OVER ARKANSAS RIVER
NEAR FINE BLUFF, ARKANSAS.
GENERAL PLAN & PROFILE, DETAILS OF SUBSTRUCTURE,
STRESSES AND SECTIONS FOR SUPERSTRUCTURE.
Scales as shown
JEFFERSON COUNTY BRIDGE DISTRICT.

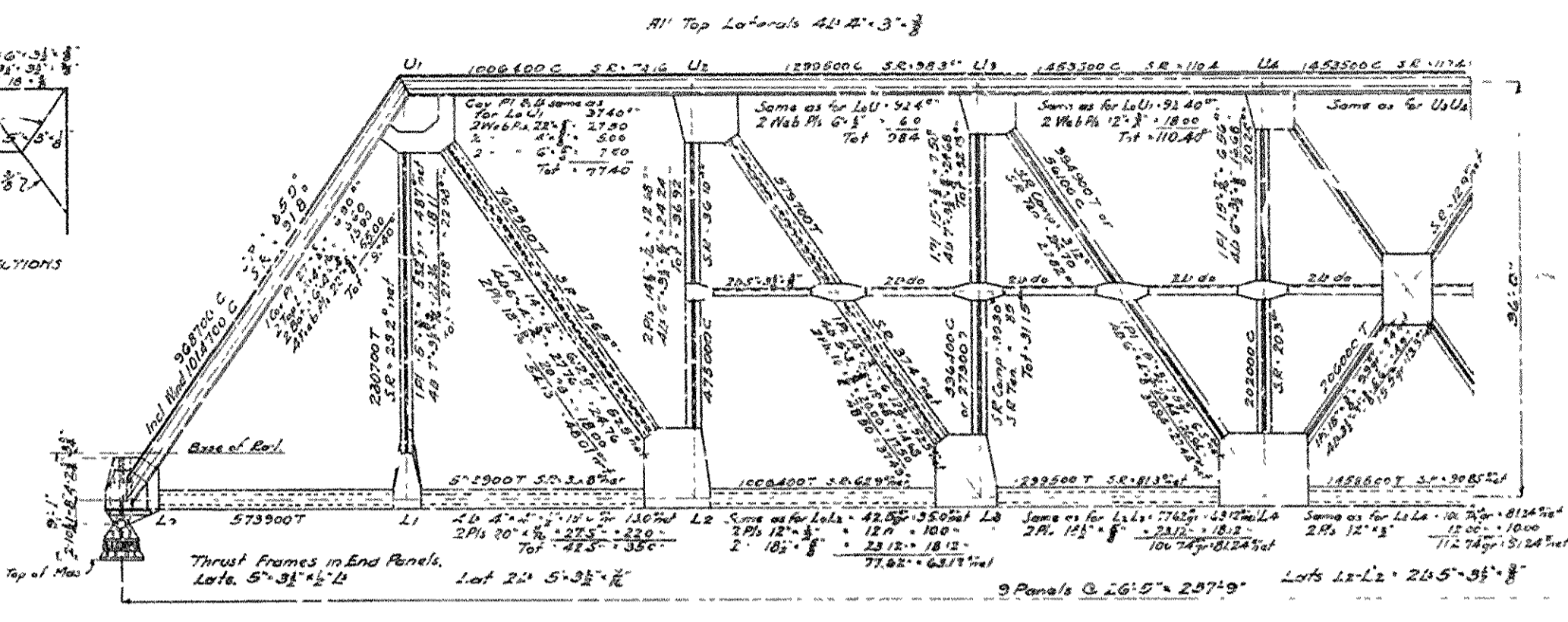
Made by OWA 2-10-14 Checked by A.B.S. 10-17-14
Traced by Checked by A.B.S. 10-17-14
Consulting Engineers
Kansas City, Mo.



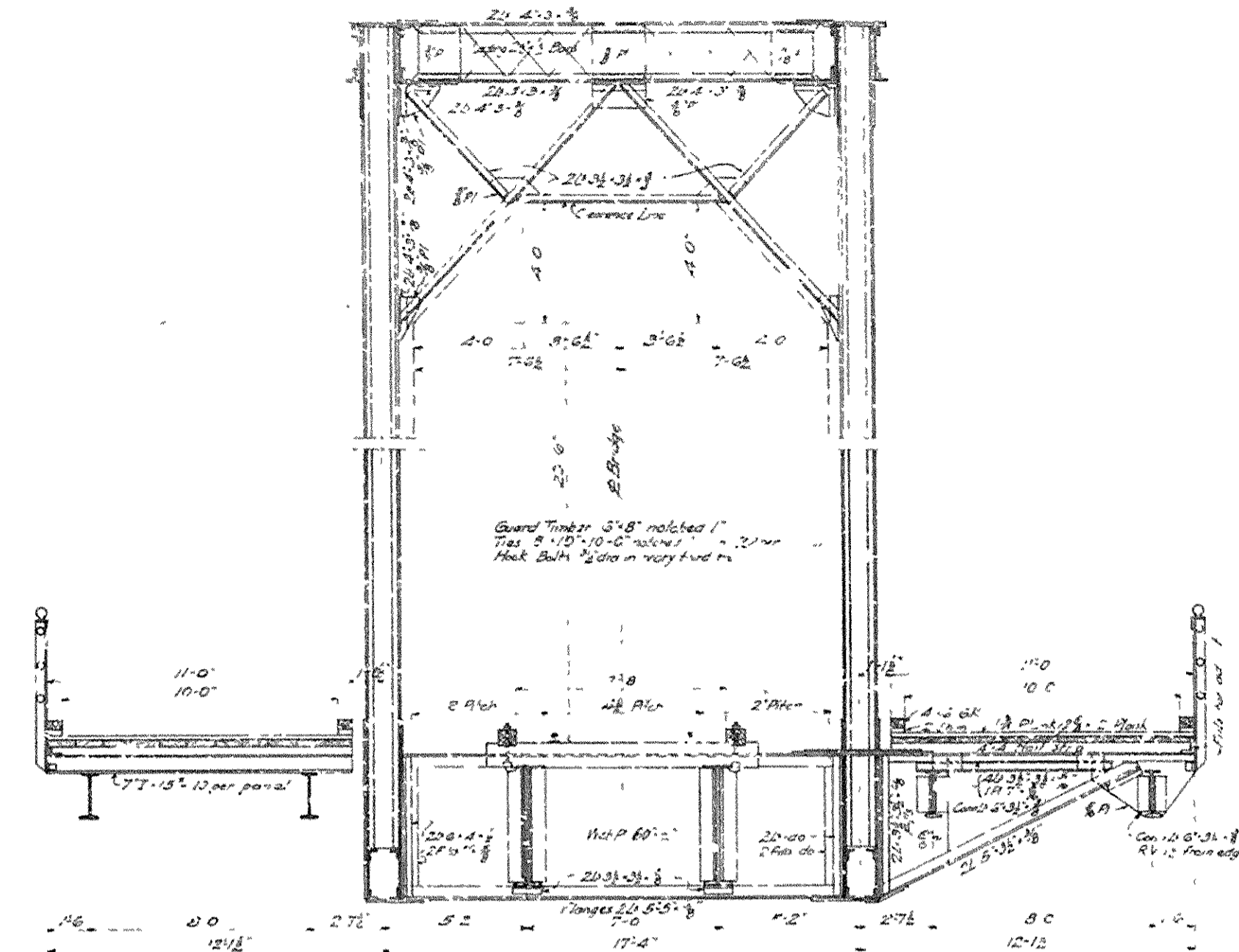
DETAIL OF PIERS 1 TO 7 INCLUSIVE
Scale 1/2" = 1'-0"



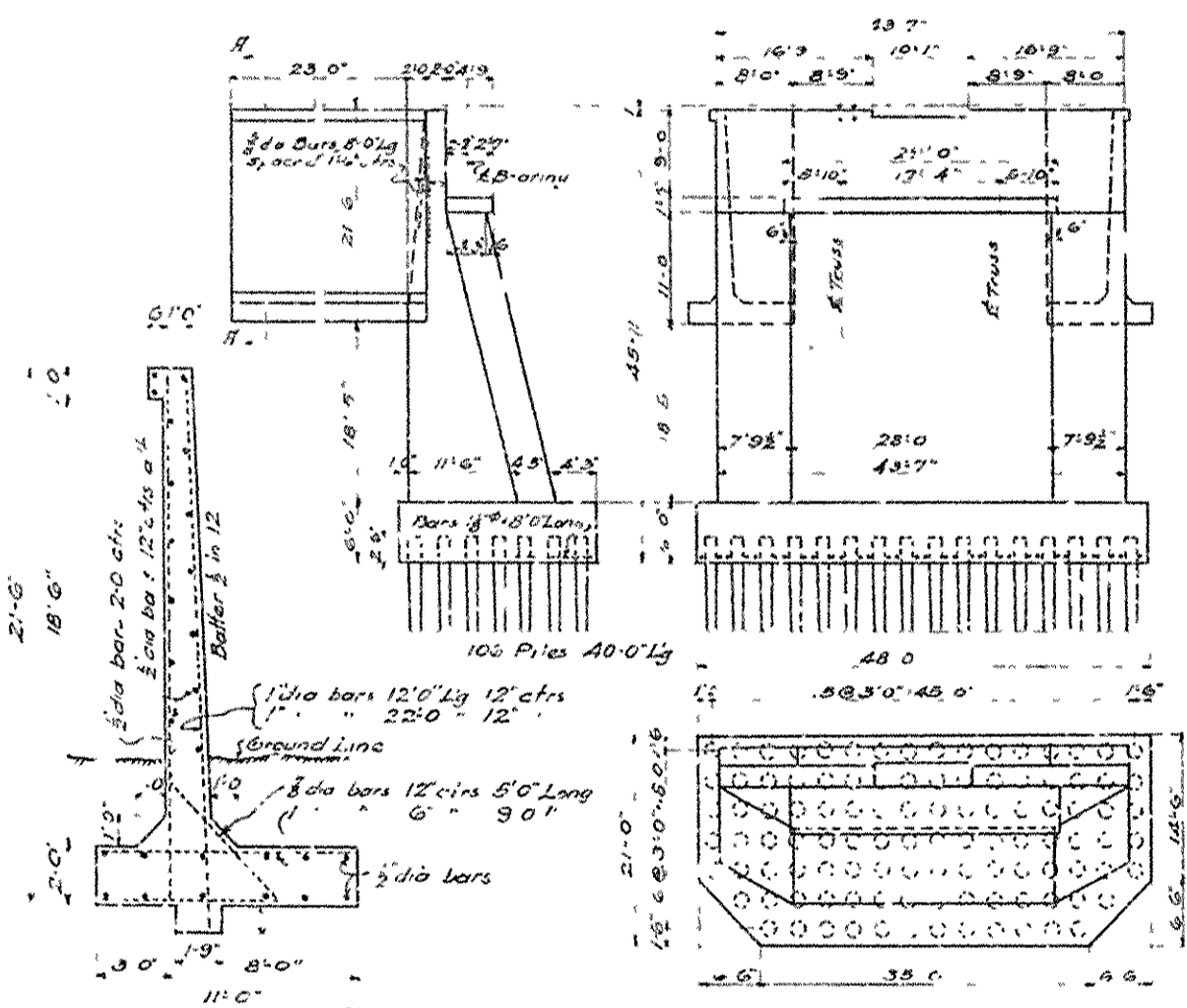
DIAGONAL SECTIONS



STRESSES AND SECTIONS FOR 237'-9" SPAN
Scale 1/8" = 1'-0"

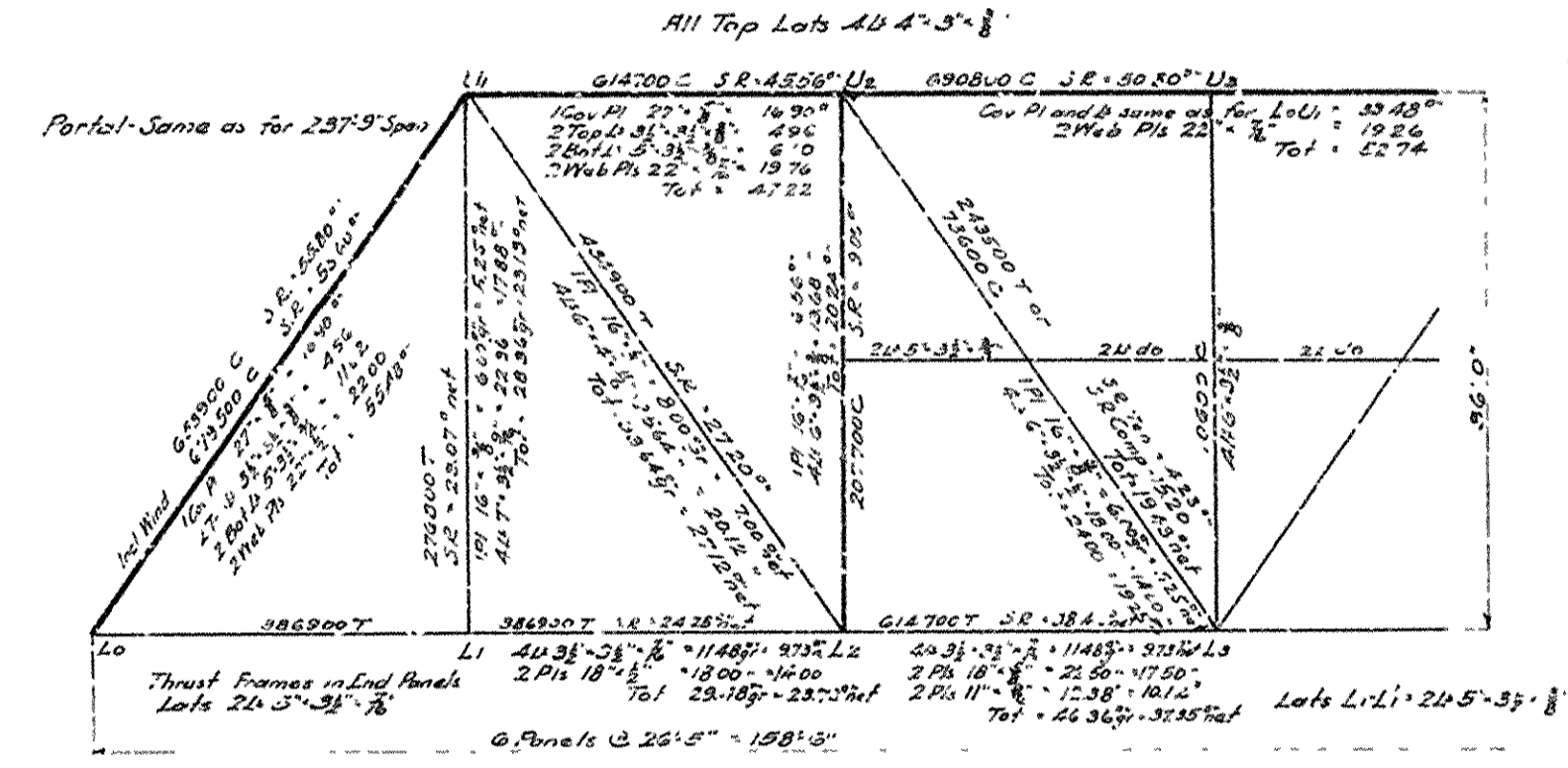


HALF SECTION AT CENTER OF PANEL INTERMEDIATE FLOOR BEAMS HALF SECTION AT PANEL POINT
Scale 1/4" = 1'-0"

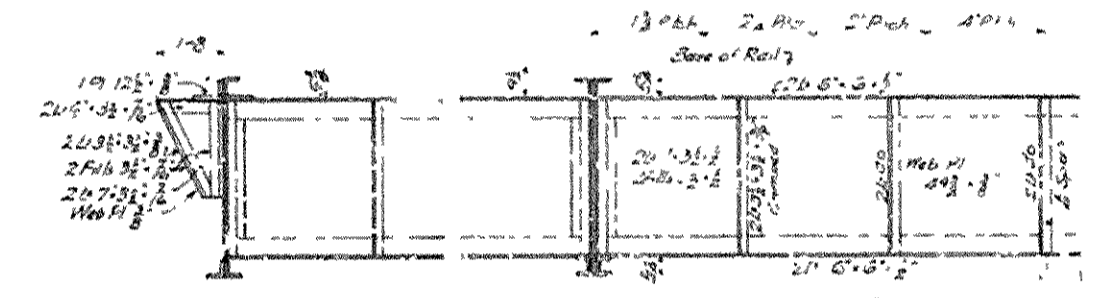


DETAIL OF NORTH ABUTMENT
Scale 1/2" = 1'-0"

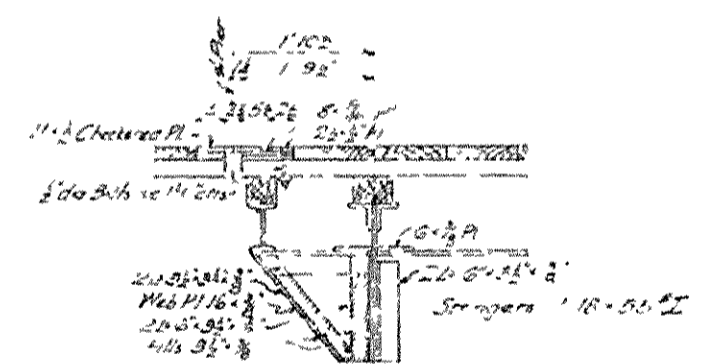
SECTION A-A
Scale 1/2" = 1'-0"



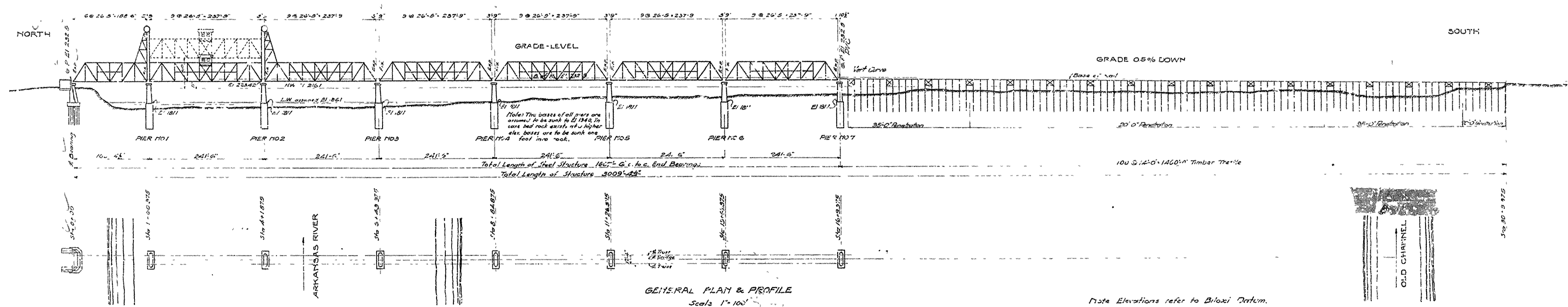
STRESSES AND SECTIONS FOR 138'-6" SPAN
Scale 1/8" = 1'-0"



RAILWAY STRINGERS
Scale 1/2" = 1'-0"

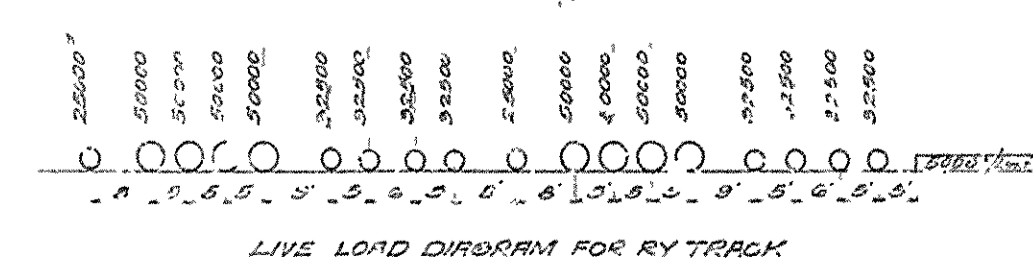


HIGHWAY STRINGERS
Scale 1/2" = 1'-0"

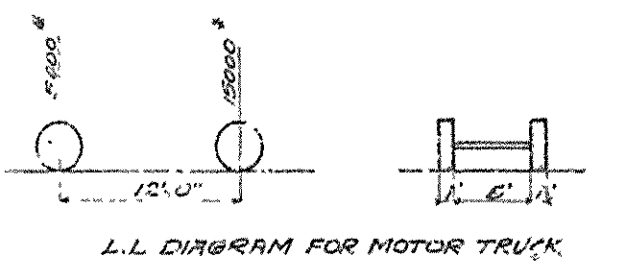


GENERAL PLAN & PROFILE
Scale 1" = 100'

Note Elevations refer to Biloxi Datum.



LIVE LOAD DIAGRAM FOR RY TRACK



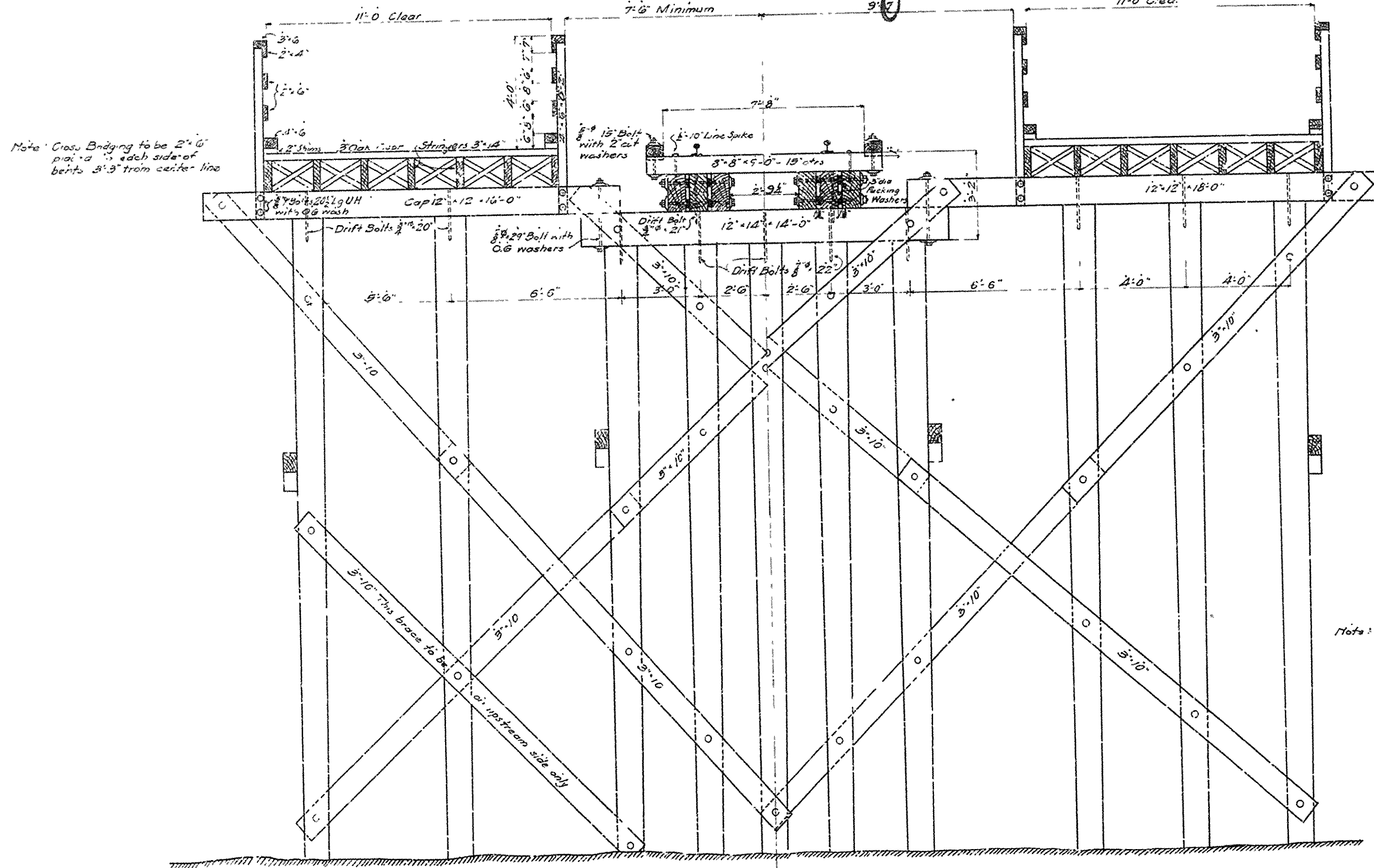
L.L. DIAGRAM FOR MOTOR TRUCK

LIVE LOADS FOR ROADWAYS
Live Load for Trailways Cross Timbers
and Hangers + Motor Truck or 100' lbs. ft.
Live Load for Trusses 237'-9" Span = 50' lbs. ft.
Live Load for Trusses 138'-6" Span = 60' lbs. ft.

IMPACT FURNISHURE
For Railway Loads = 25%
For Highway Loads = 25%
(20 + L/100)

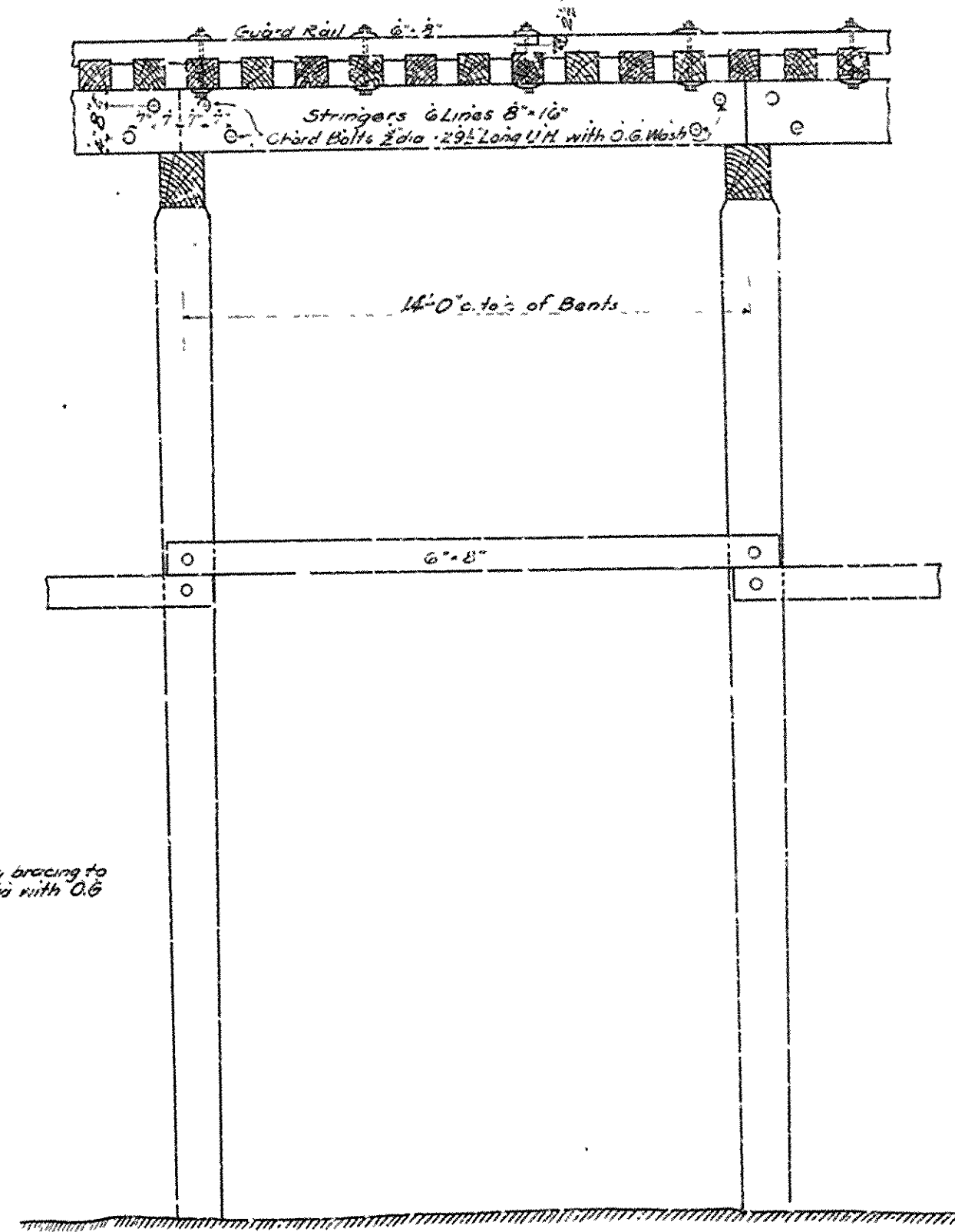
BRIDGE OVER ARKANSAS RIVER
NEAR PINE BLUFF, ARKANSAS.
GENERAL PLAN & PROFILE, DETAILS OF SUBSTRUCTURE,
STRESSES AND SECTIONS FOR SUPERSTRUCTURE
as shown
JEFFERSON COUNTY BRIDGE DISTRICT

Plan & Profile by N. S. S. S.
Revised by J. H. H. H.
Merrick & Cochrane,
Consulting Engineers,
Kansas City, Mo.

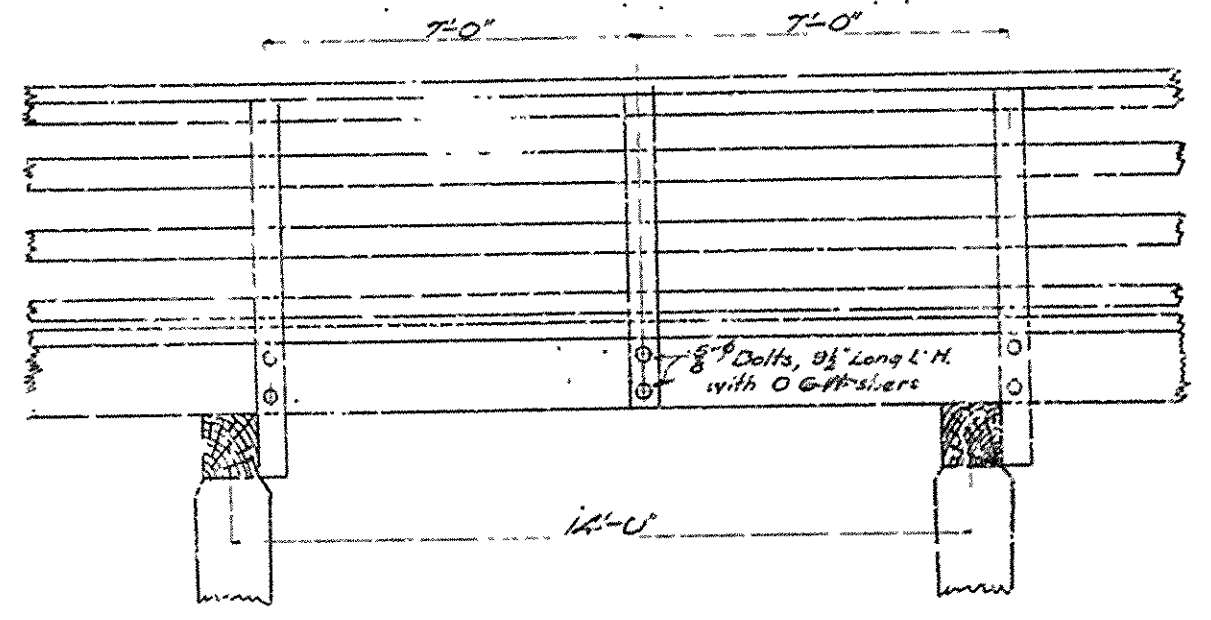
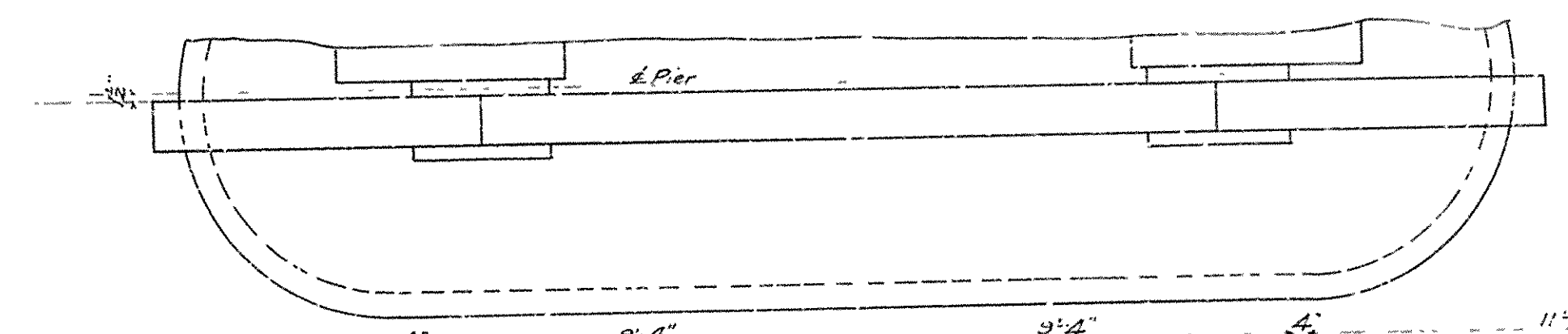


TYPICAL SECTION OF HIGHWAY TRESTLE - BENTS Nos 2 TO 100 INCL. AND HALF TYPICAL SECTION OF RAILWAY TRESTLE

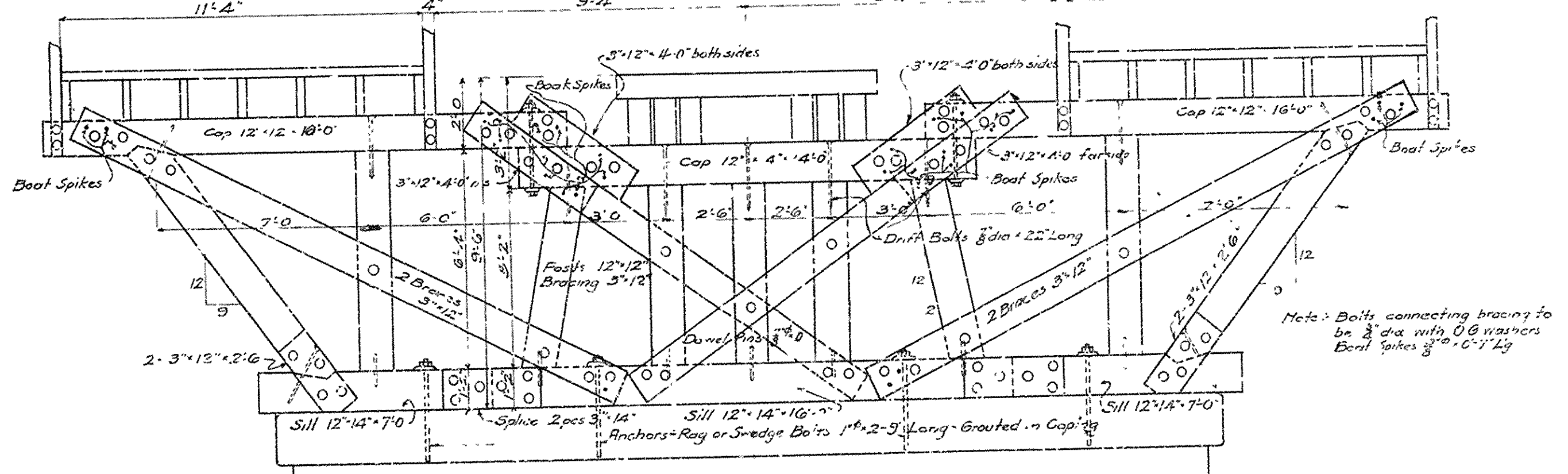
SECTION OF BENT NO 1 FOR HIGHWAY TRESTLE AND HALF TYPICAL SECTION OF RAILWAY TRESTLE.



SIDE ELEVATION OF RAILWAY TRESTLE

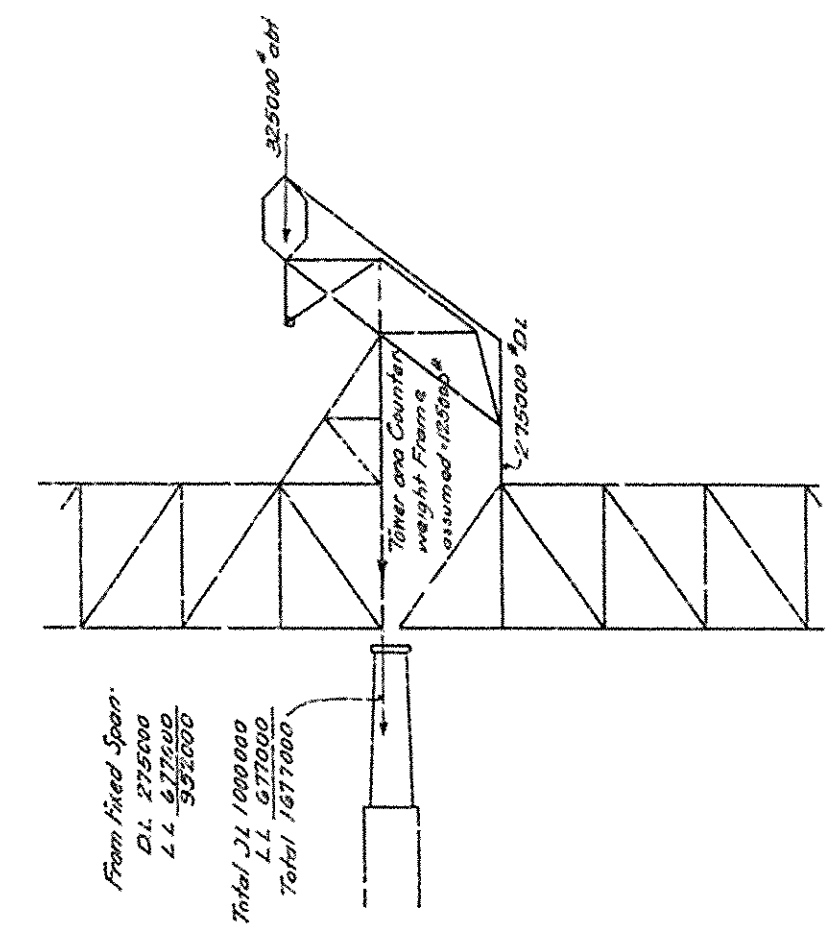
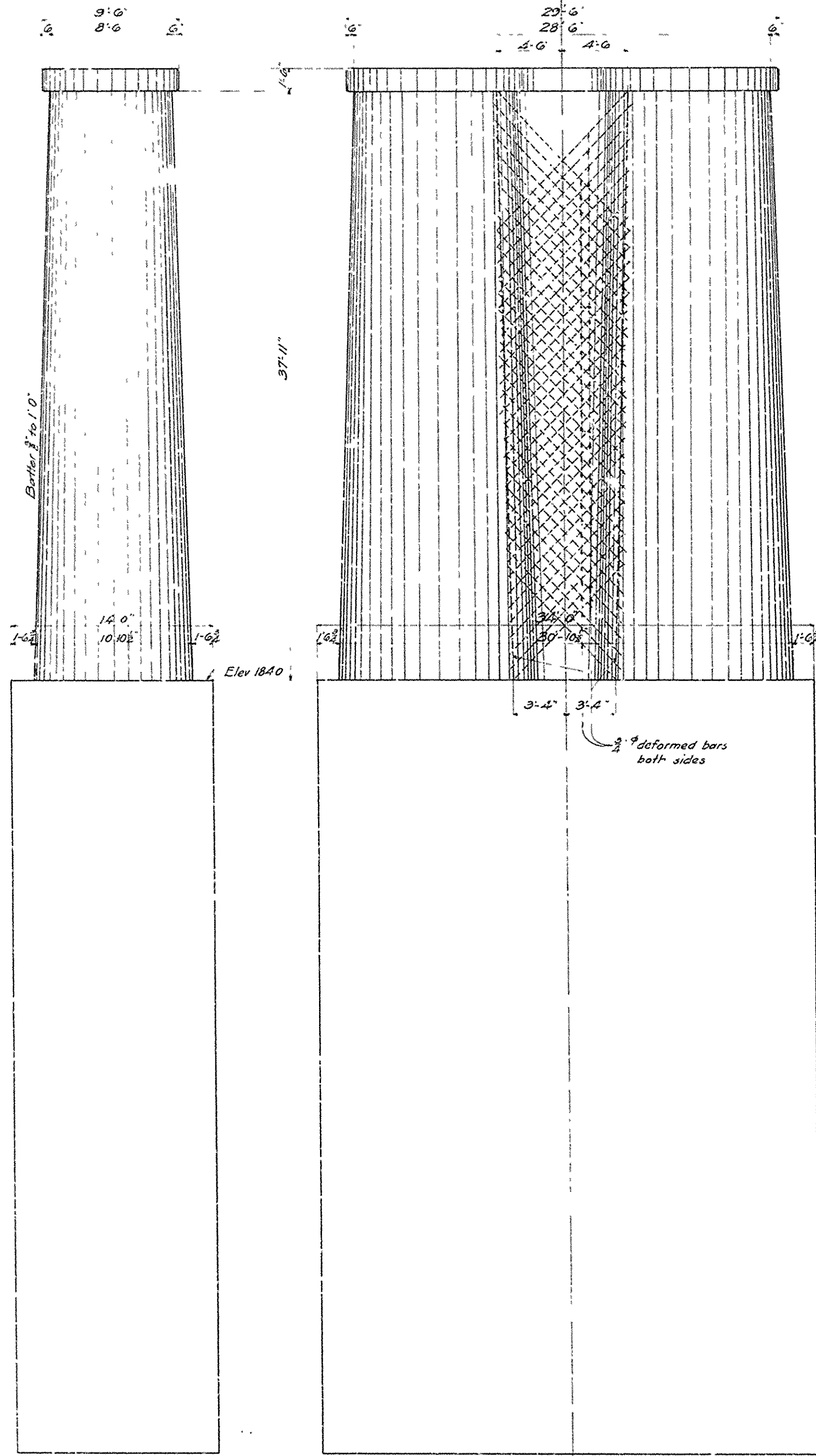


SIDE ELEVATION OF HIGHWAY



BENT ON PIER NO 7

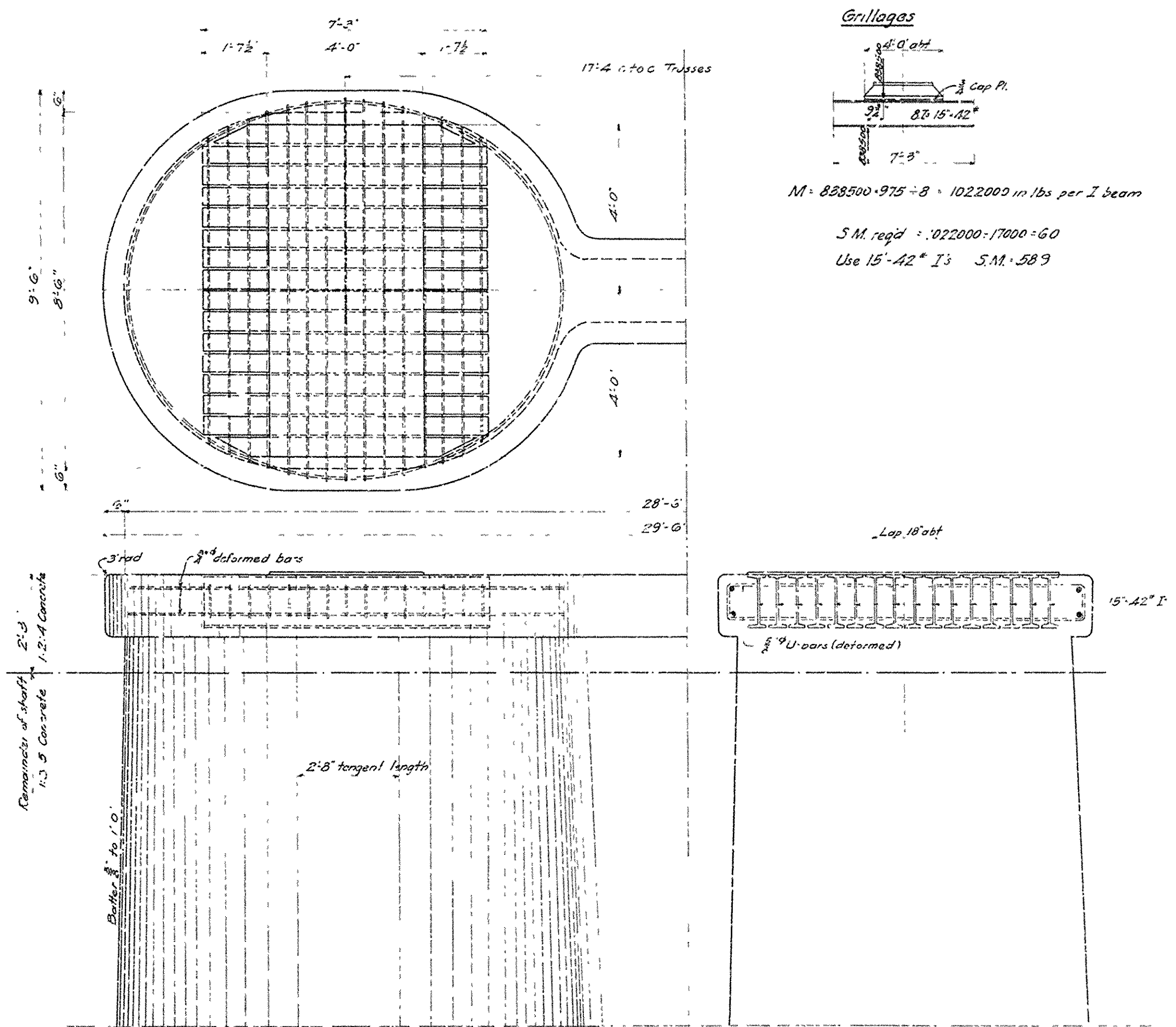
BRIDGE OVER ARKANSAS RIVER
 NEAR PINE BLUFF, ARKANSAS
 DETAILS OF TRESTLE
 Scale 3/4" = 1'-0"
 JEFFERSON COUNTY BRIDGE DISTRICT
 Made & Traced by WJ 9-6-12
 Checked by ALH 9-11-12
 Hedrick & Co. Inc.
 Consulting Engineers
 Kansas City, Mo.



Dead Load
 Weight of metal 3600
 Highway flooring 125 F.B.M. @ 4' 500
 railway track 400
 4500
 Weight of span = 4500 x 245 = 1100000

Live Load
 End Shear 245' span, E 50 = 775000
 Imp. 55% = 426000
 Hwy L.L. 50 x 20 = 1000
 Imp. 25% = 250
 $\frac{1250 \times 245}{2} = 153000$
 Total 1354000
 or 677000 per shoe

Area reqd for bearing, ordinary shoe = 952000 / 400 = 2380"
 tower = 1677000 / 400 = 4192"
 Make grillage 48' x 87" = 4176"

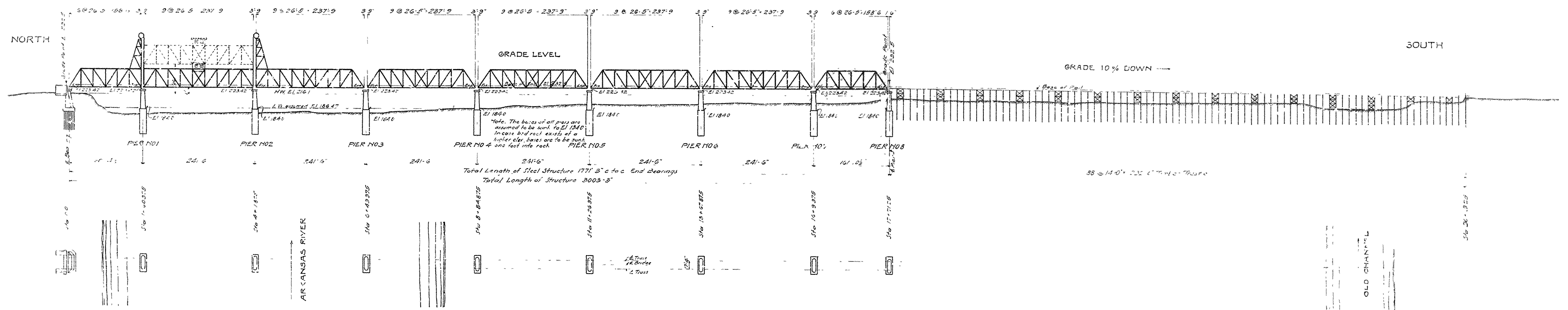


Grillages
 17'-4" x 20' C Trusses
 4'-0" x 4'-0" Cap Pl.
 8'-0" x 15'-42" I
 7'-5" x 7'-5"

M = 828500 x 975 - 8 = 1022000 lbs per I beam
 S.M. reqd = 1022000 / 17000 = 60
 Use 15'-42" I's S.M. 589

BRIDGE OVER ARKANSAS RIVER
 NEAR PINE BLUFF, ARKANSAS.
 DETAILS OF PIERS

JEFFERSON COUNTY BRIDGE DISTRICT
 Made by V.H.C. 8-30-12 Hadnick & Cochran,
 Traced by P.H.B.F.W. 8-3-12 Consulting Engineers,
 Kansas City, Mo.



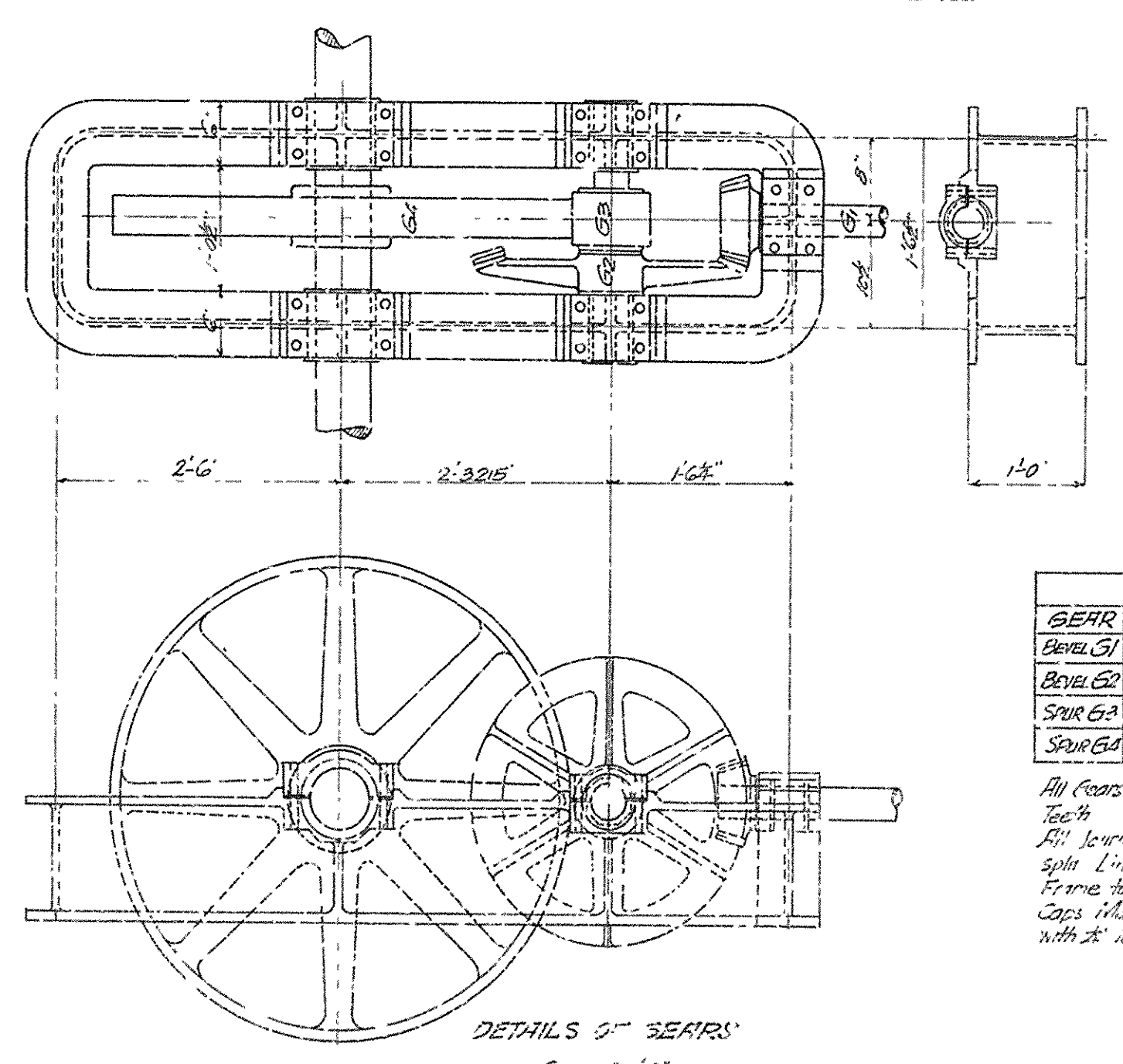
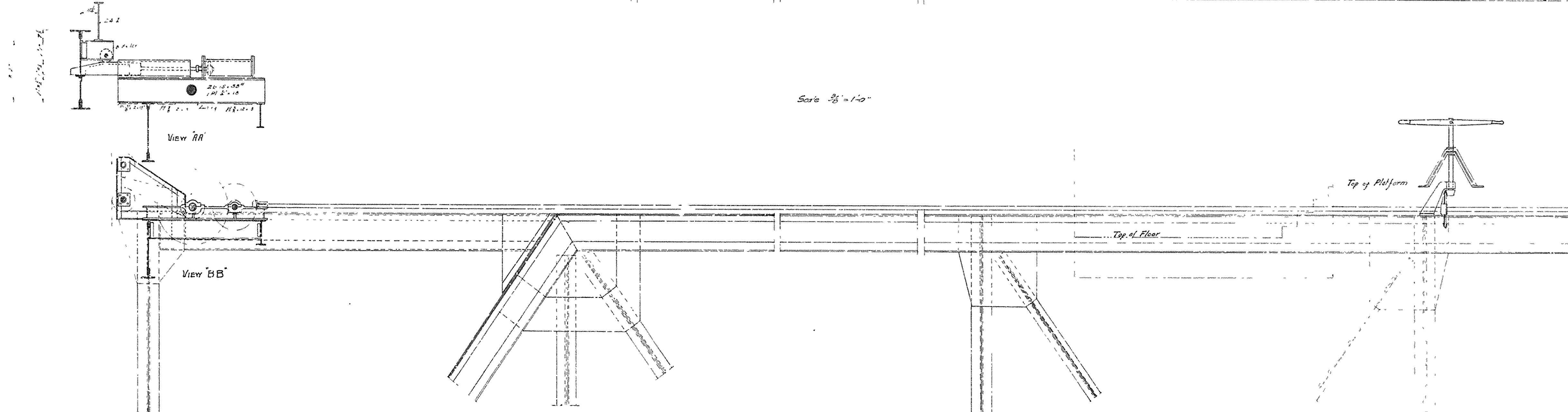
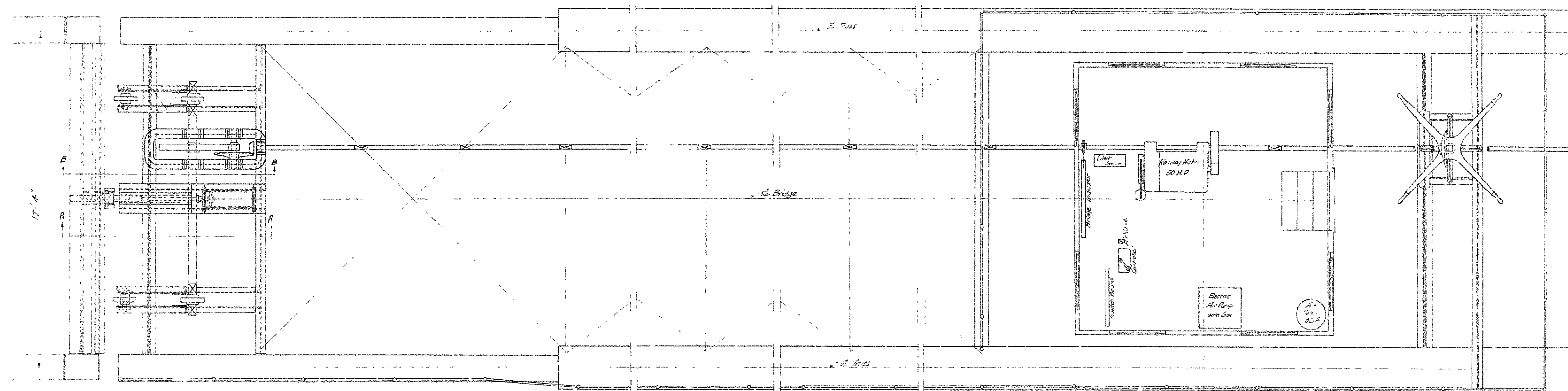
Note Elevations refer to Base Datum

BRIDGE OVER ARKANSAS RIVER
 NEAR PINE BLUFF, ARKANSAS.
 REVISED GENERAL PLAN & PROFILE
 Scale - 1"=100' 0"

JEFFERSON COUNTY BRIDGE DISTRICT
 Made & Traced by W. T. D. S. H. & C. S. H. & C. S. H.
 Consulting Engineers
 Kansas City, Mo.

SHEET NO. 10

BR. No 2133 **DRWG. No. 5937** 5-3-15



BEAR	NOTTEEN	PITCH	FACE	SHAFT
BEAR G1	25	1	325	36
BEAR G2	71	1	325	18
SPUR G3	17	15	525	18
SPUR G4	87	15	95	575

All Gears to be Cut Steel with Machine-cut Teeth
 All Journal Boxes to have removable octagonal split Linings of Phosphor Bronze
 Frame to be Cast-Steel with Cast-Steel Box Caps Machined to receive Bearing Linings with 2" take up for Adjustment

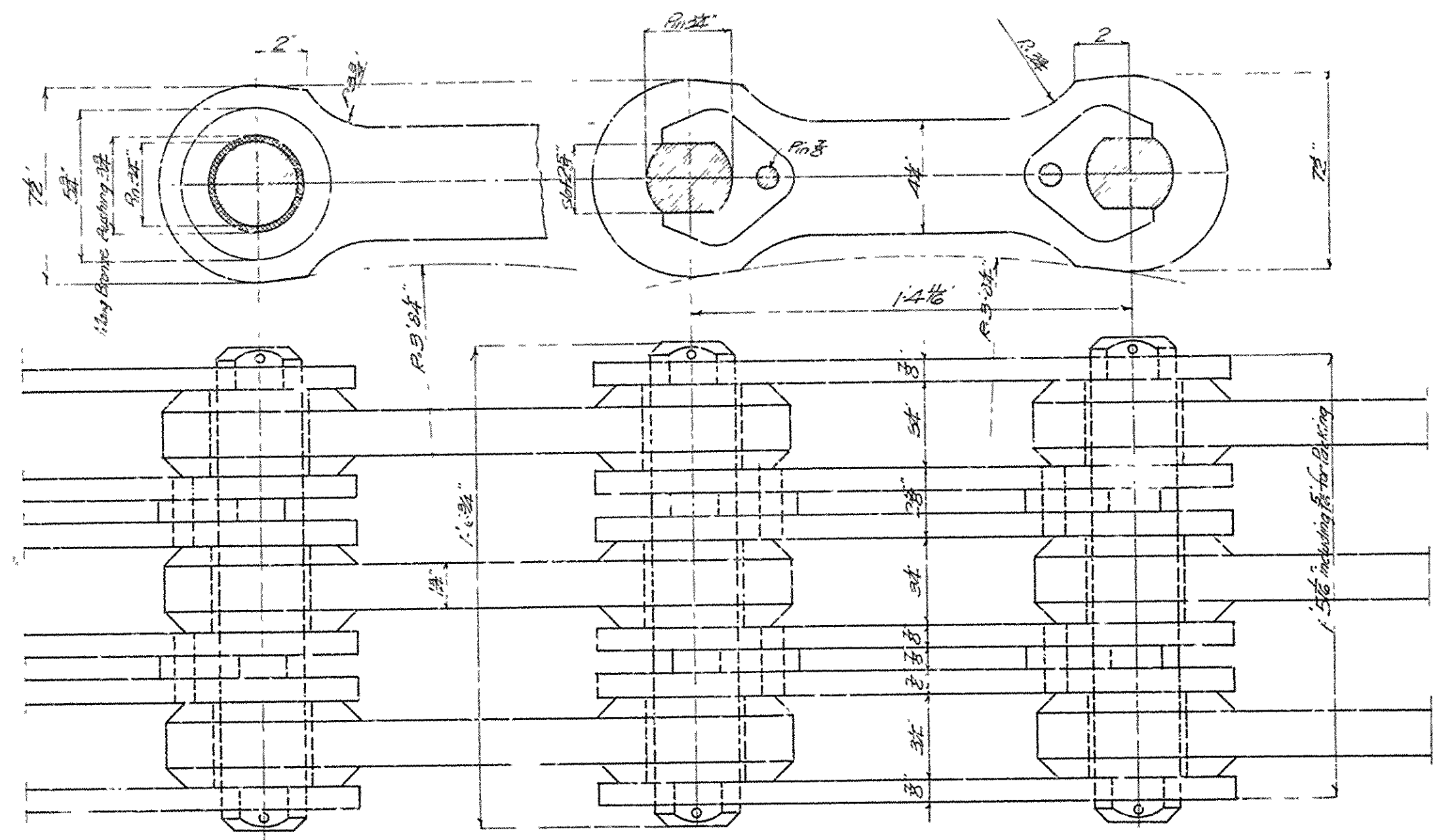
DETAILS OF GEARS
 Scale 1"=10"

BRIDGE OVER ARKANSAS RIVER
 NEAR PINE BLUFF, ARKANSAS
 OPERATING MACHINERY

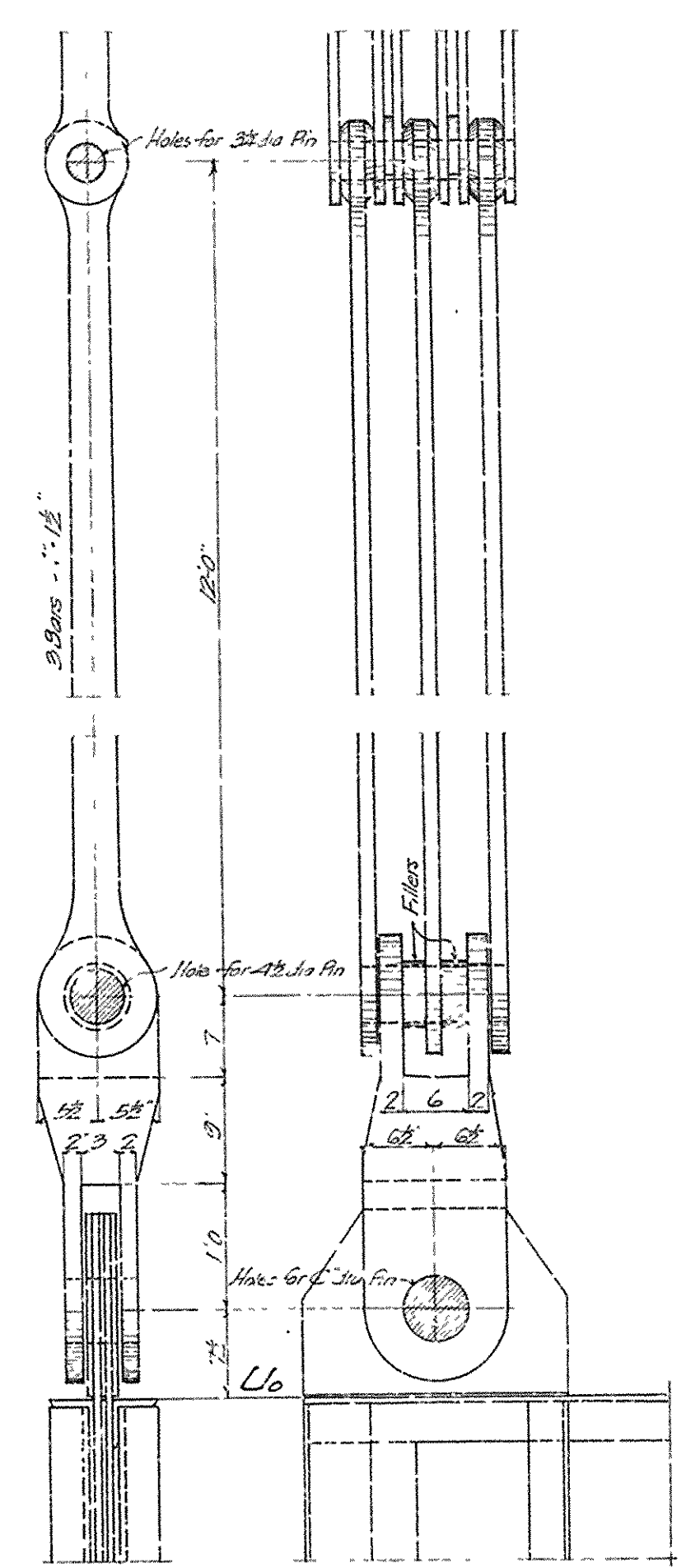
Scale as shown
 JEFFERSON COUNTY BRIDGE DISTRICT

Made by: Stone & Burke
 Patent Office: P.M.B. & J.M.
 Checked by:
 Checked by: St. Catherine
 Consulting Engineers,
 Kansas City, Mo.

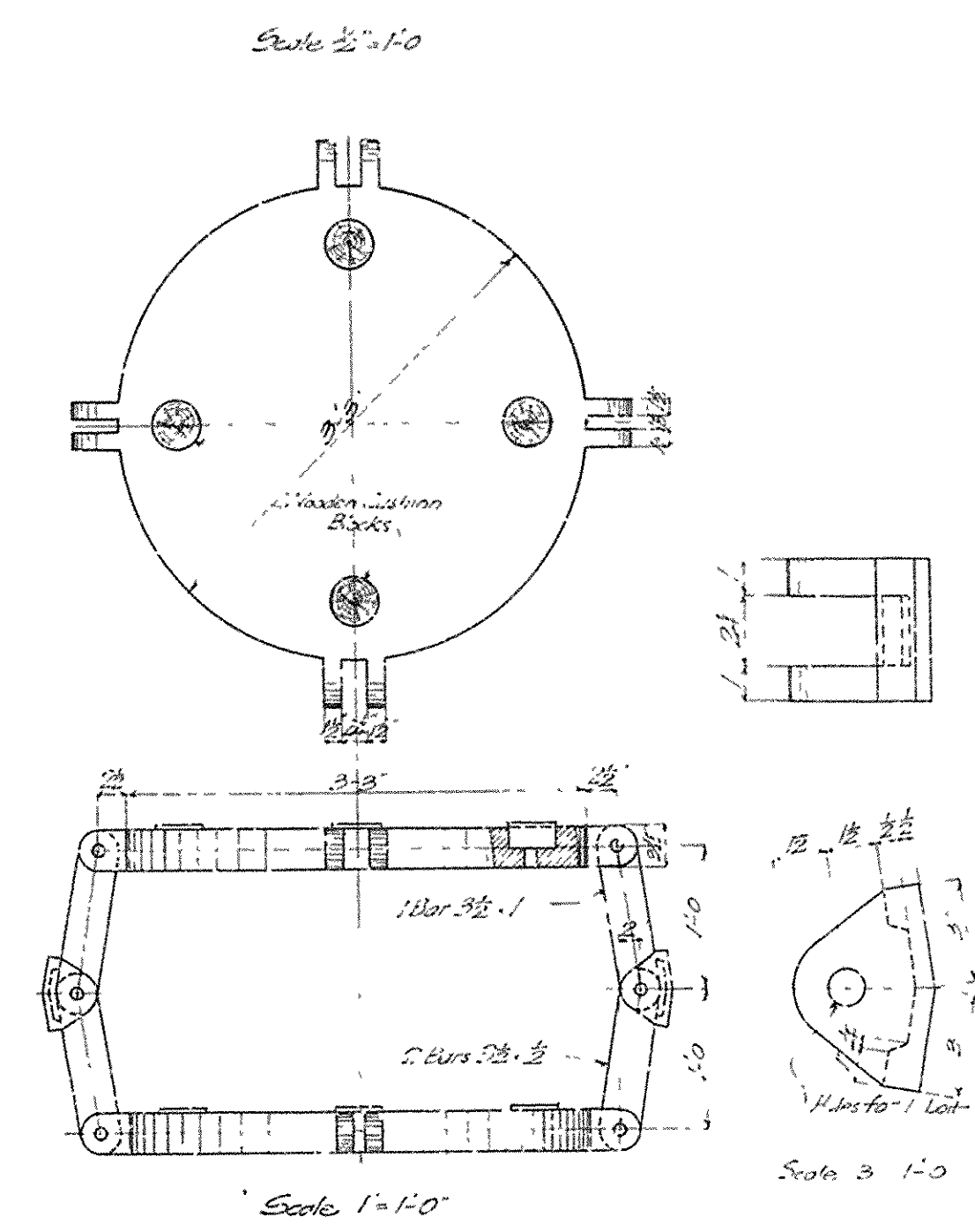
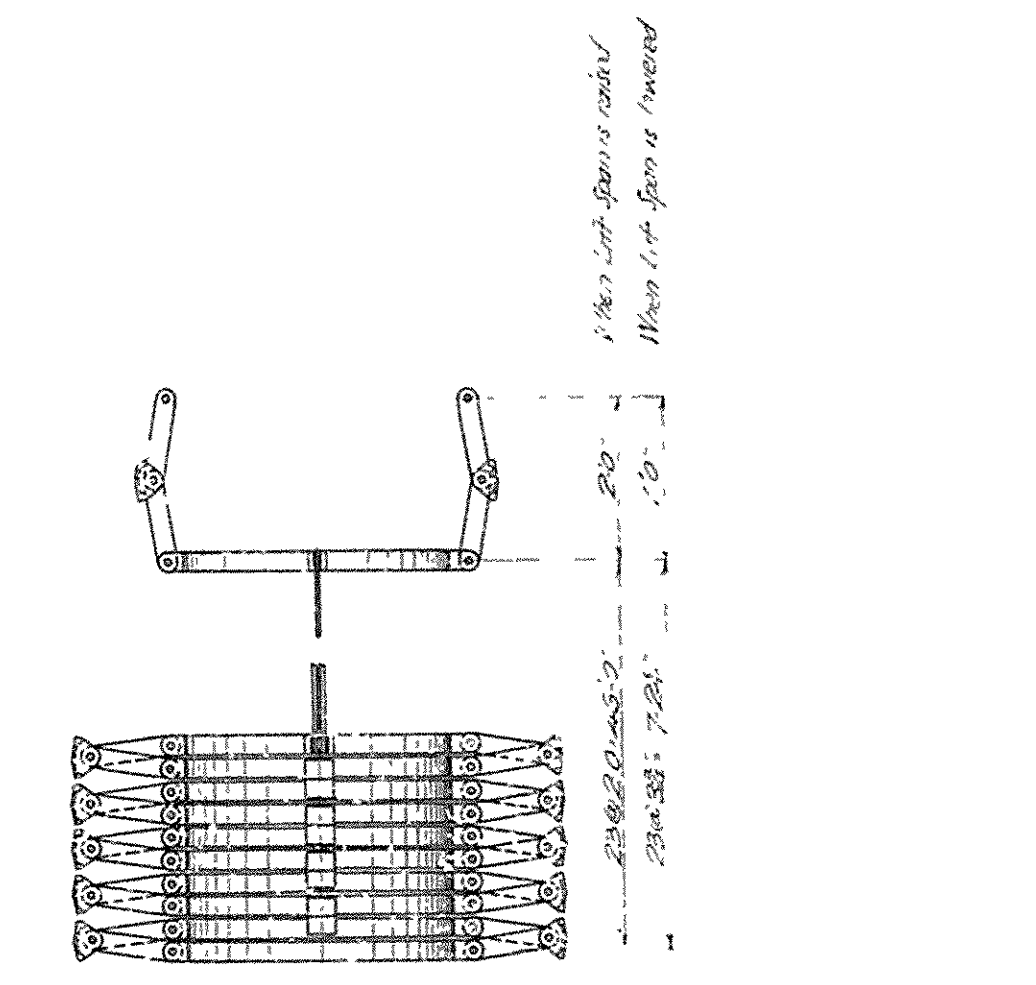
SHEET N° 9



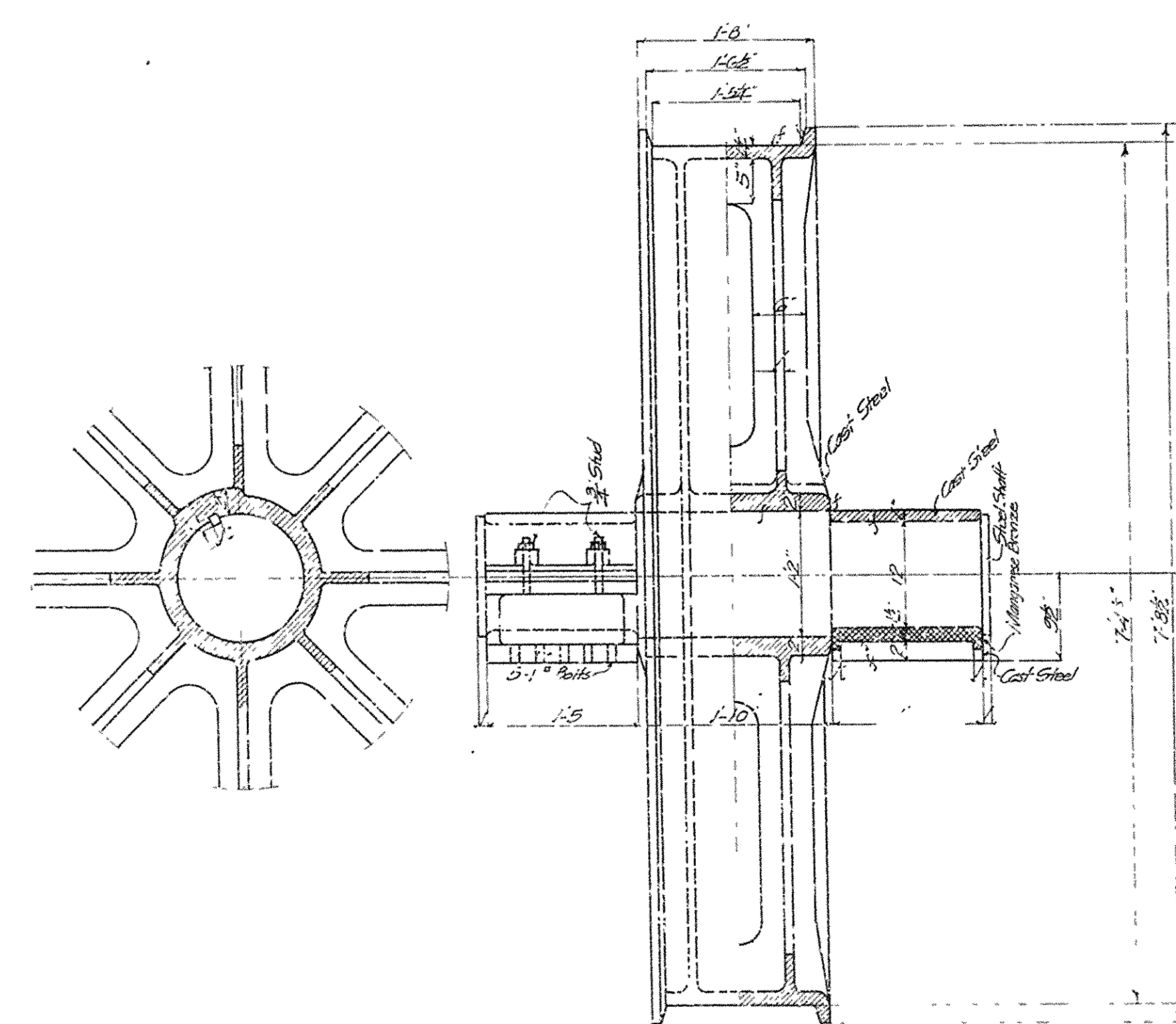
COUNTERBALANCE CHAINS
Scale 3"=1'



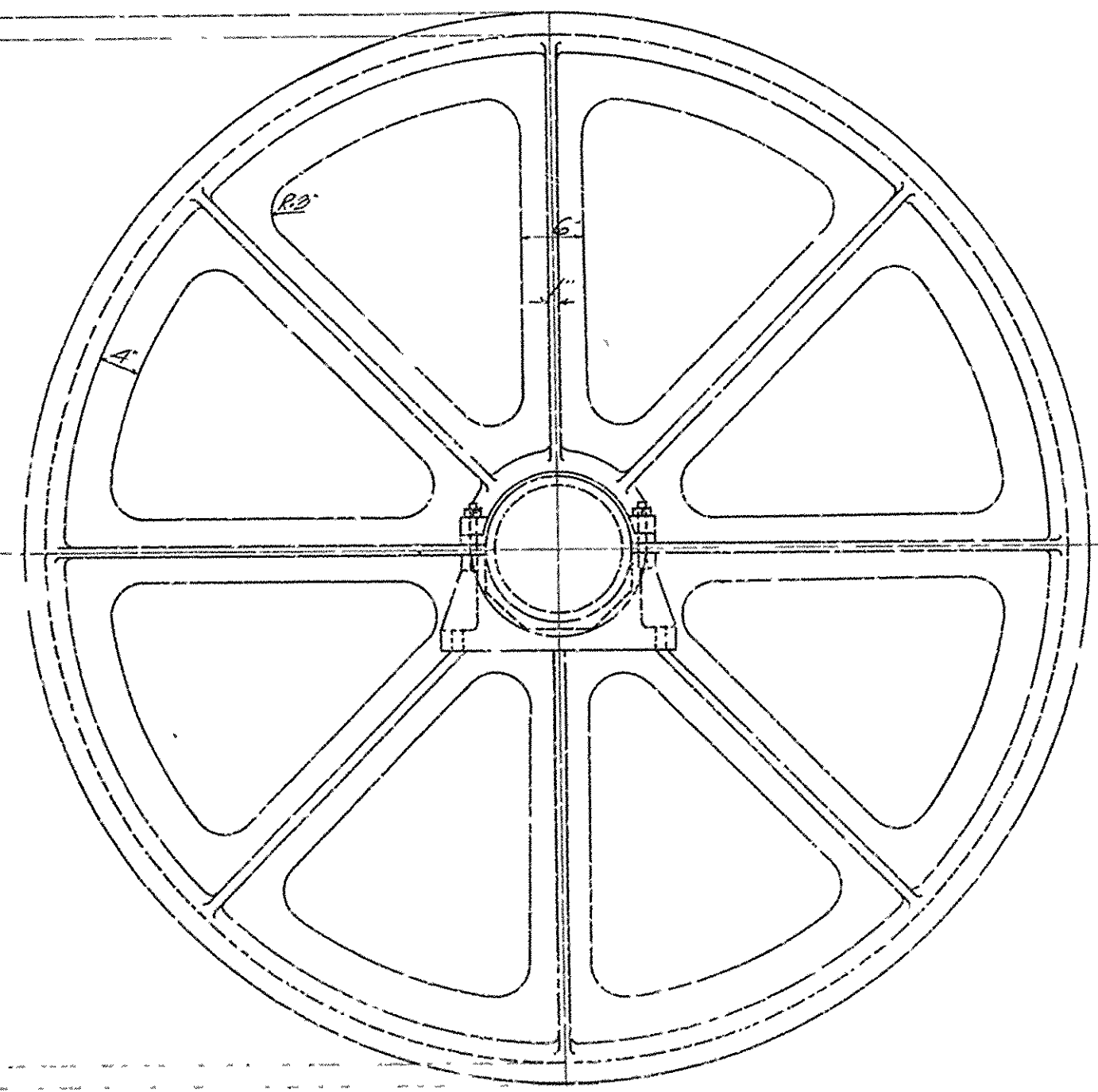
EYEBARS FOR COUNTERWEIGHT
CHAINS AT U6
Scale 1"=1'



DETAILS OF FOLDING COUNTERWEIGHTS



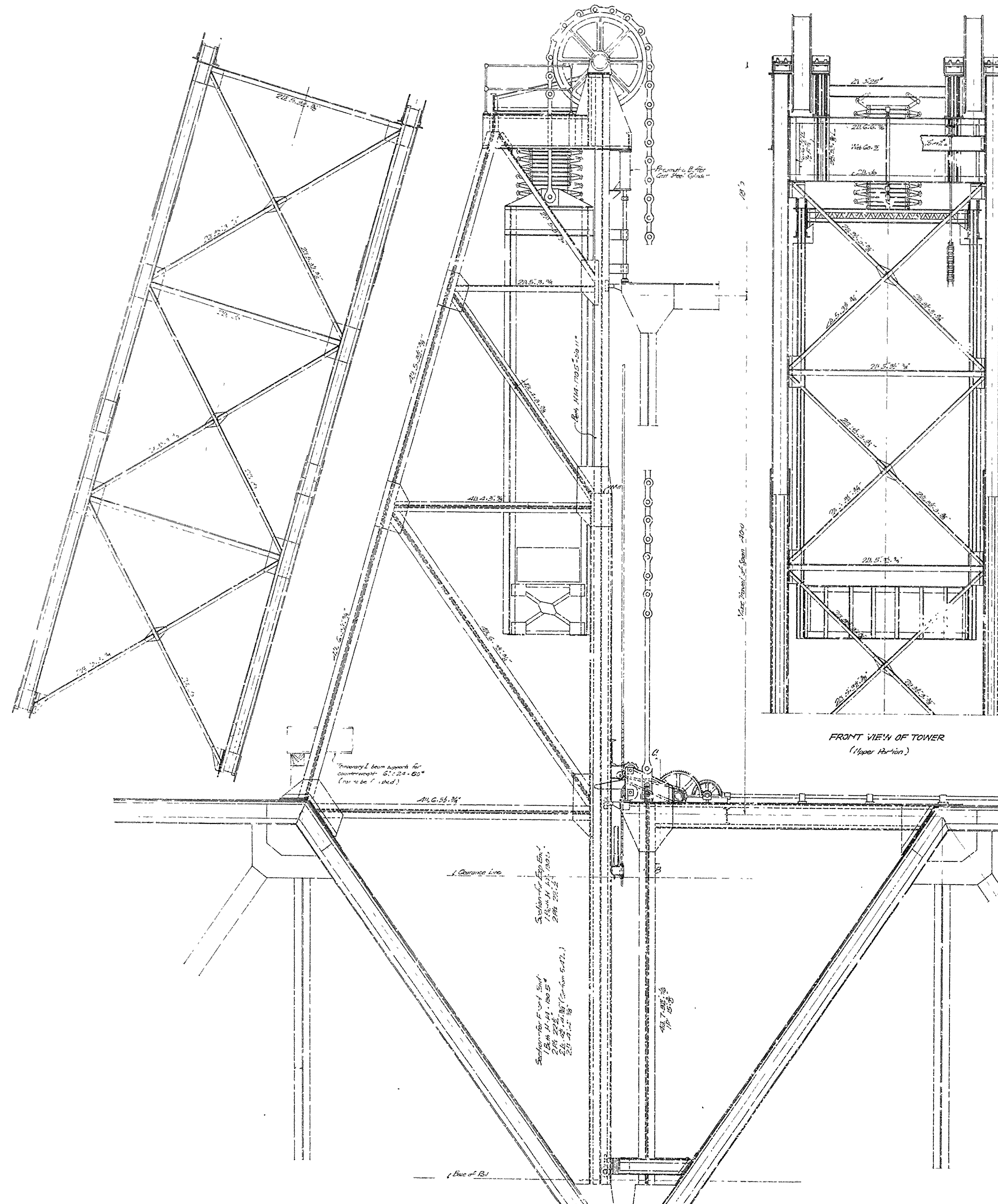
MAIN DRUMS
Scale 1"=1'



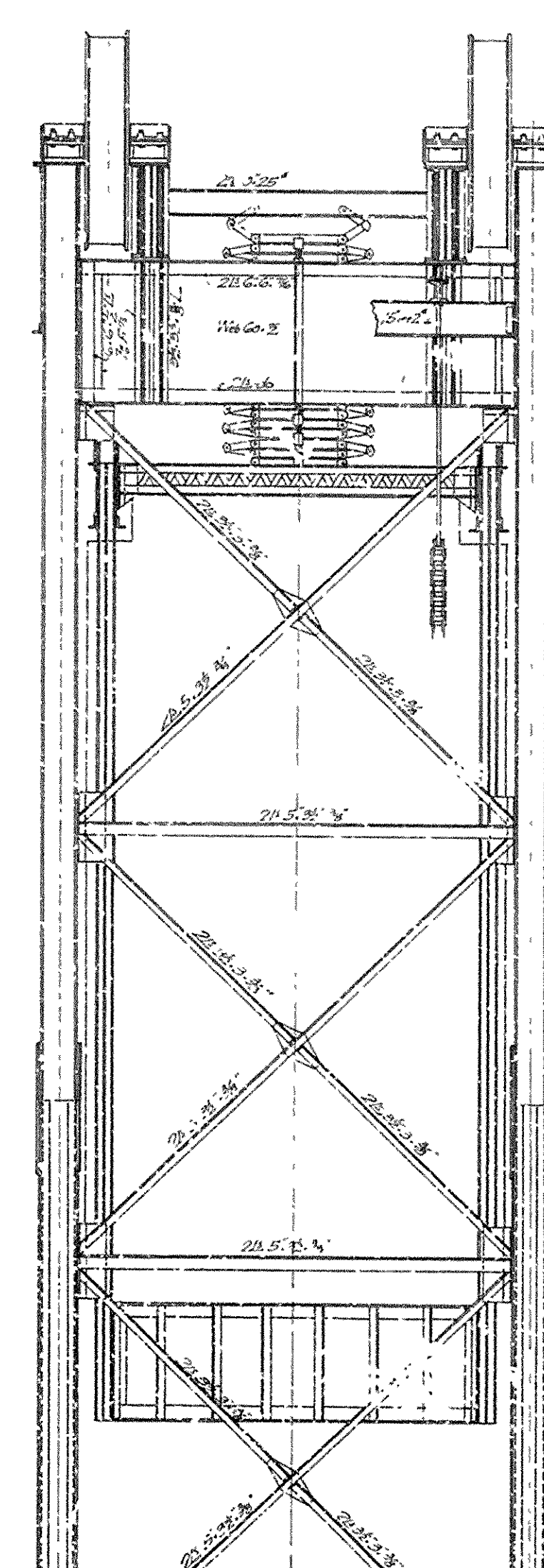
General Notes :-
All the parts of Chain to be of Medium Steel
except Pin Bushing.
All Castings to be of Cast Steel
All Bearings and Bushings to be of
Manganese Bronze to withstand a
casting stress of 42000 per sq inch

BRIDGE OVER ARKANSAS RIVER
NEAR PINE BLUFF, ARKANSAS
DETAILS OF MAIN DRUMS, COUNTERBALANCE
CHAINS AND FOLDING COUNTERWEIGHTS
Scale: as shown
JEFFERSON COUNTY BRIDGE DISTRICT.

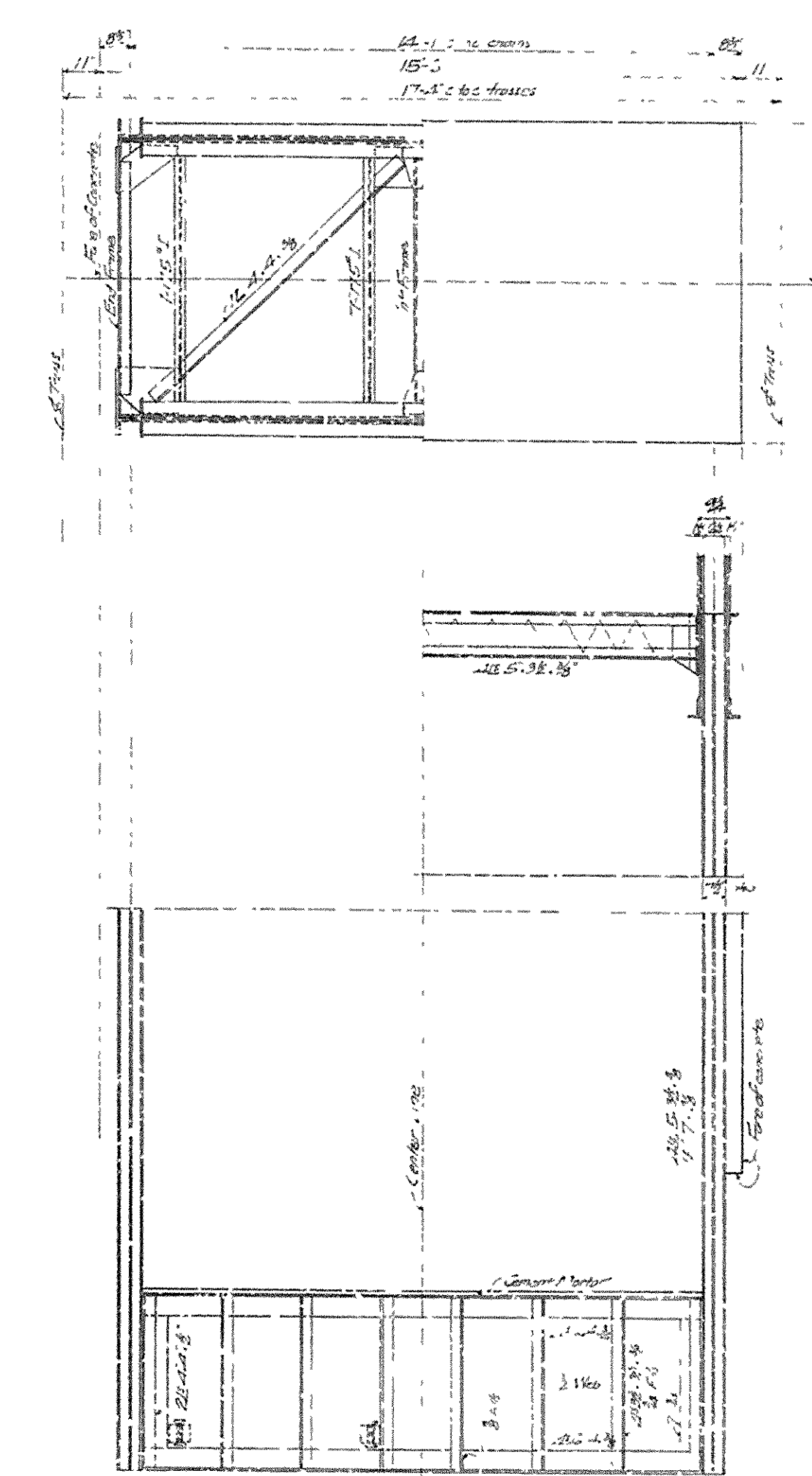
Made by
Checked by J.M. 11-9-12
Checked by
Hedrick B. Cashmore,
Consulting Engineers,
Kansas City, Mo.



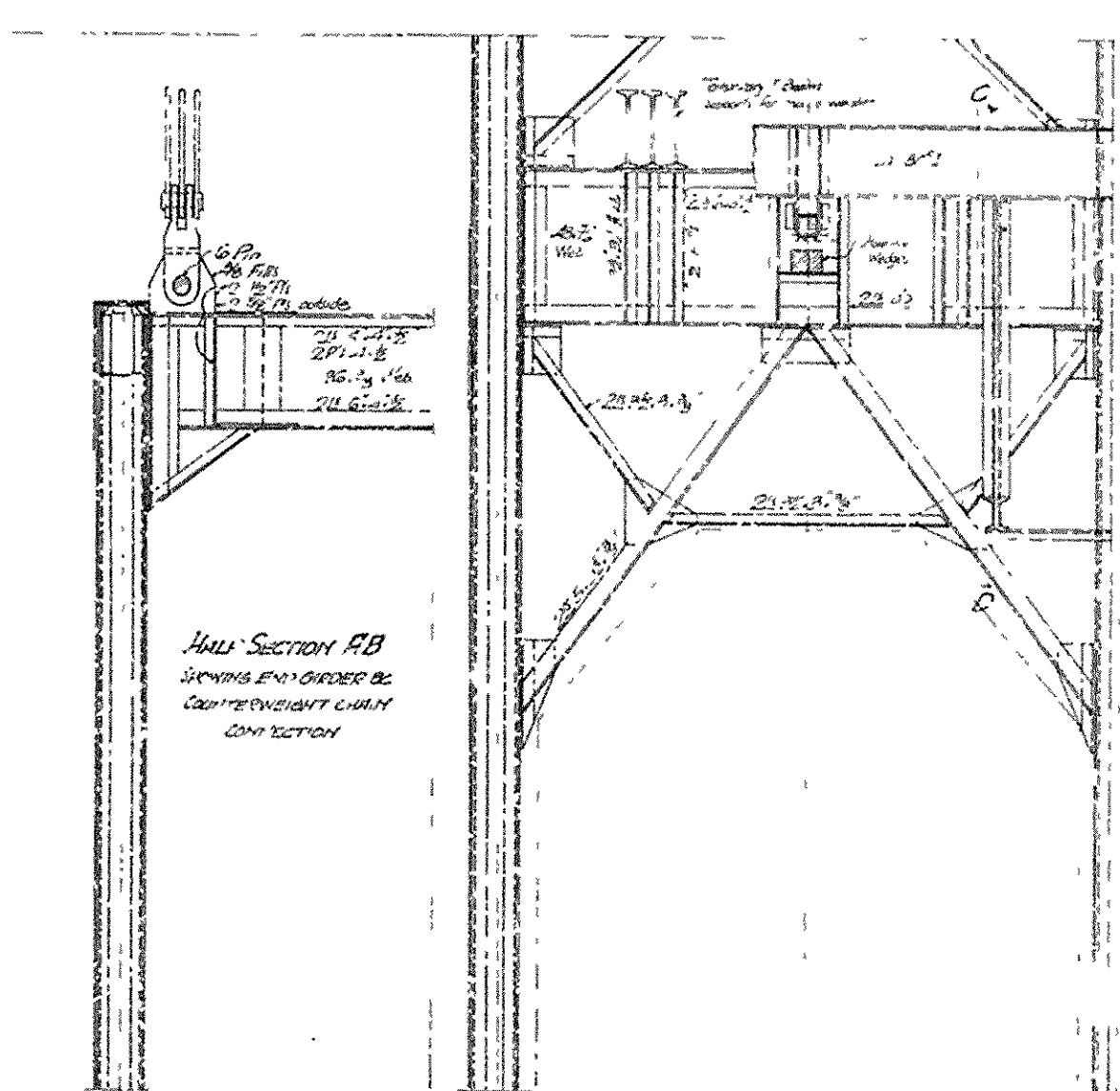
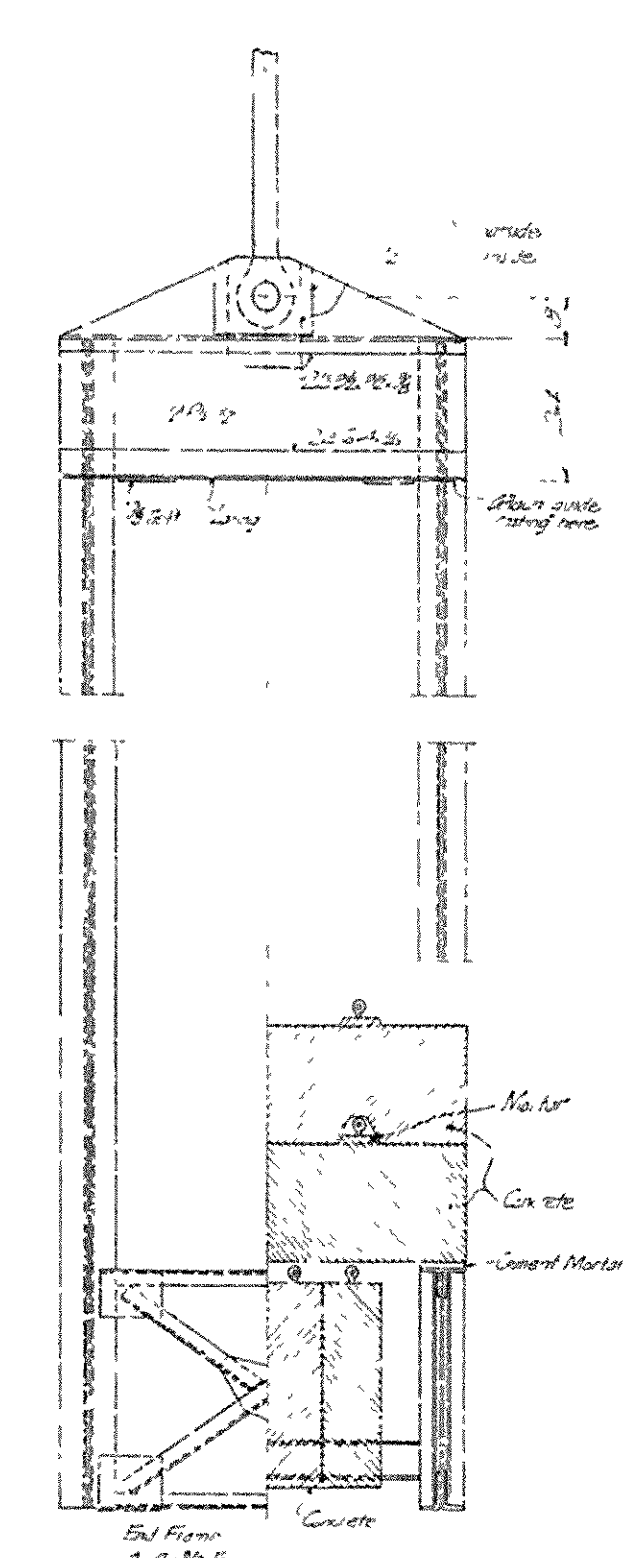
MACHINERY, TOWER, ETC
Scale: 1/4"



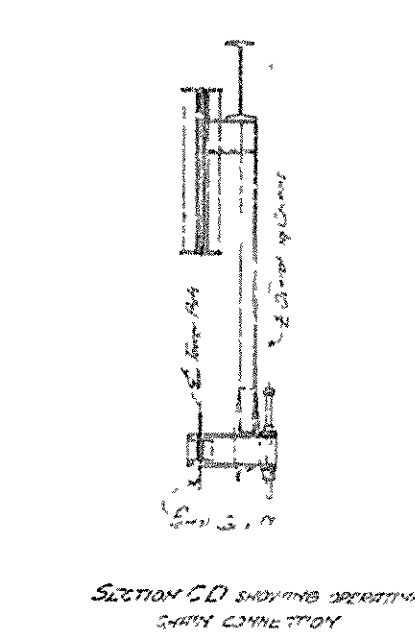
FRONT VIEW OF TOWER
(Upper Portion)



DETAILS OF COUNTERWEIGHT FRAME
Scale: 1/8"



FRONT VIEW OF TOWER
(Lower Portion)

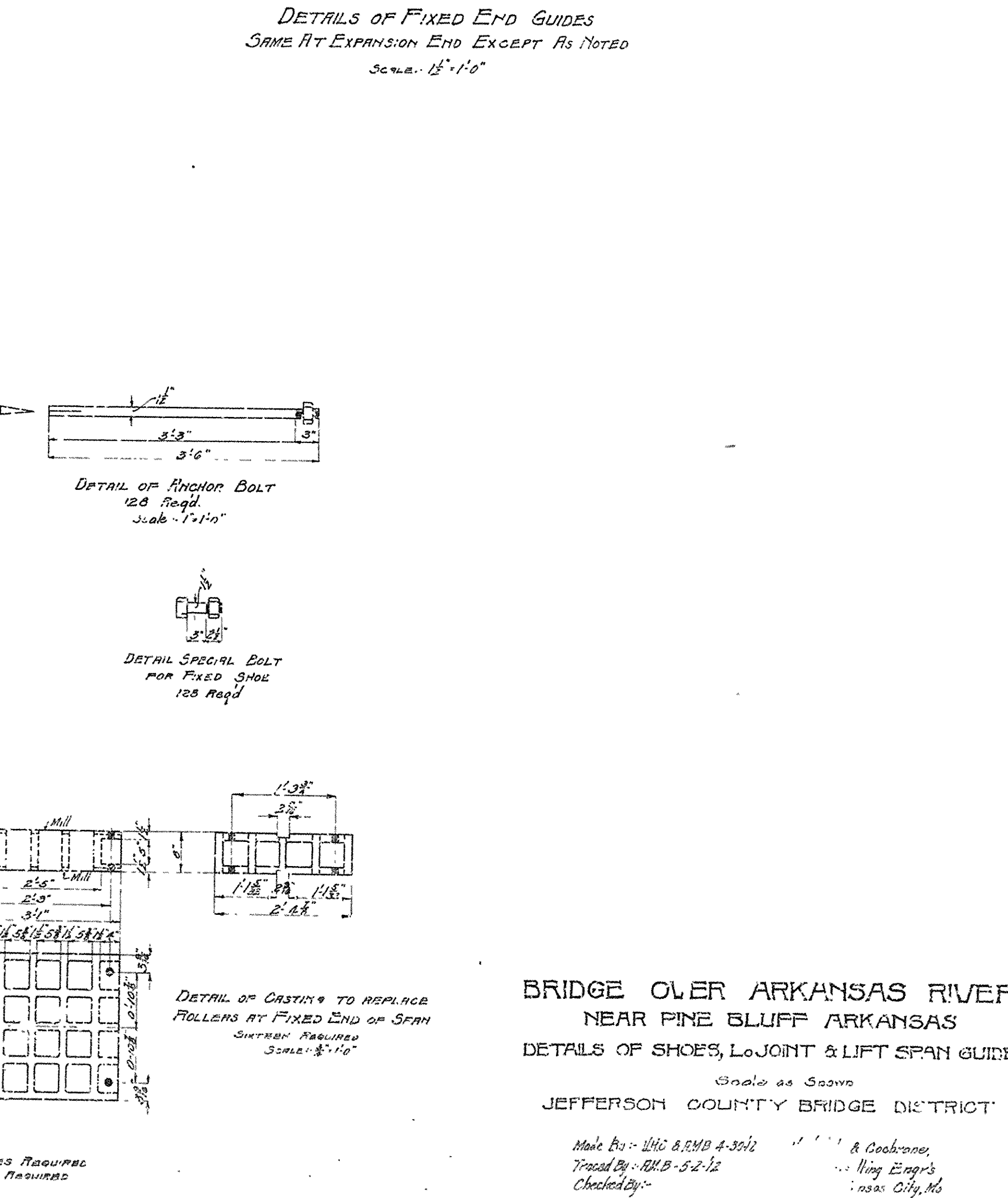
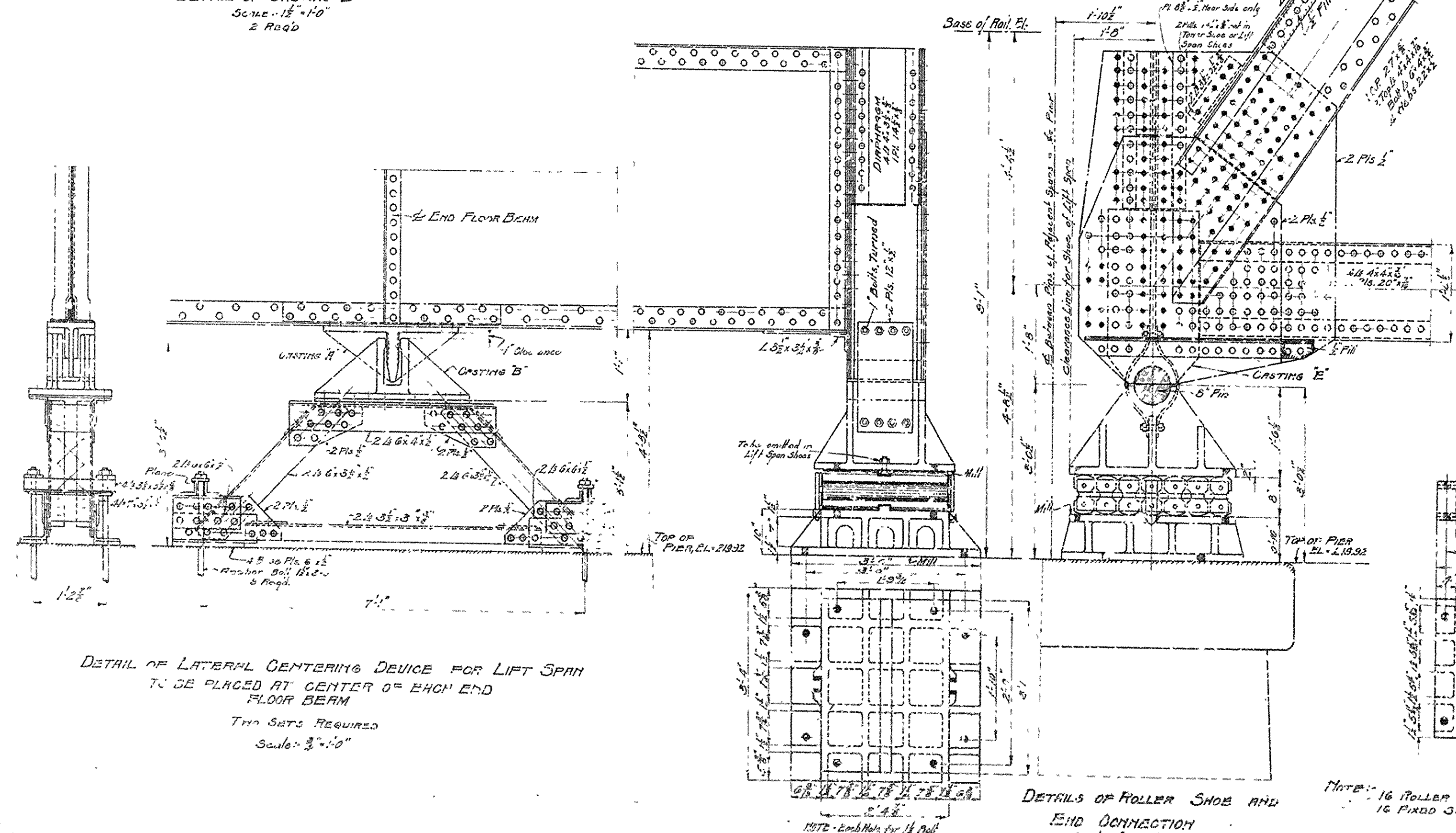
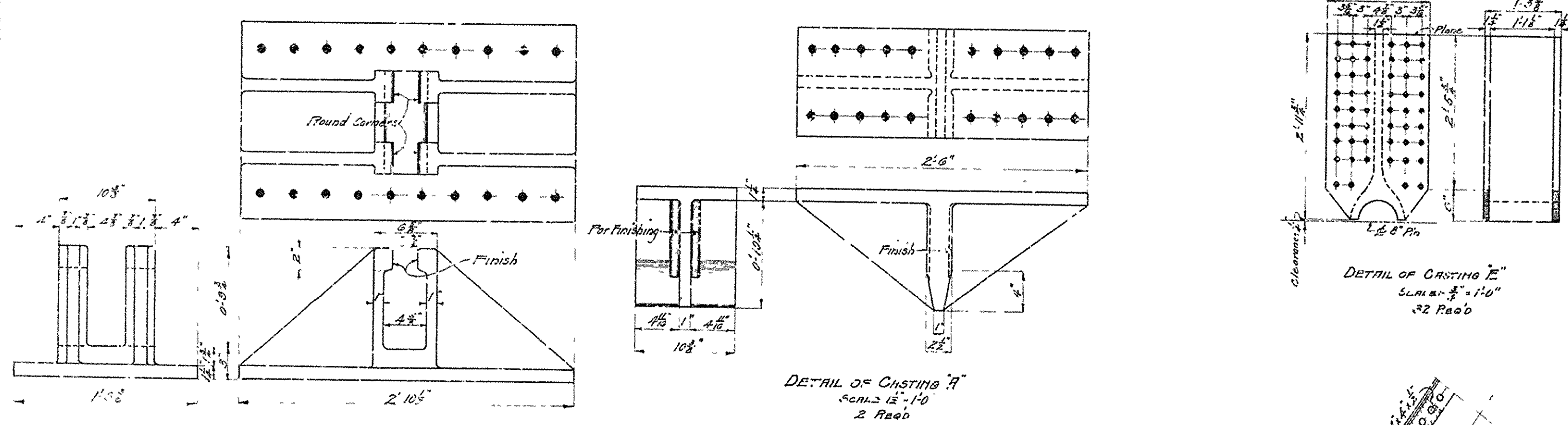
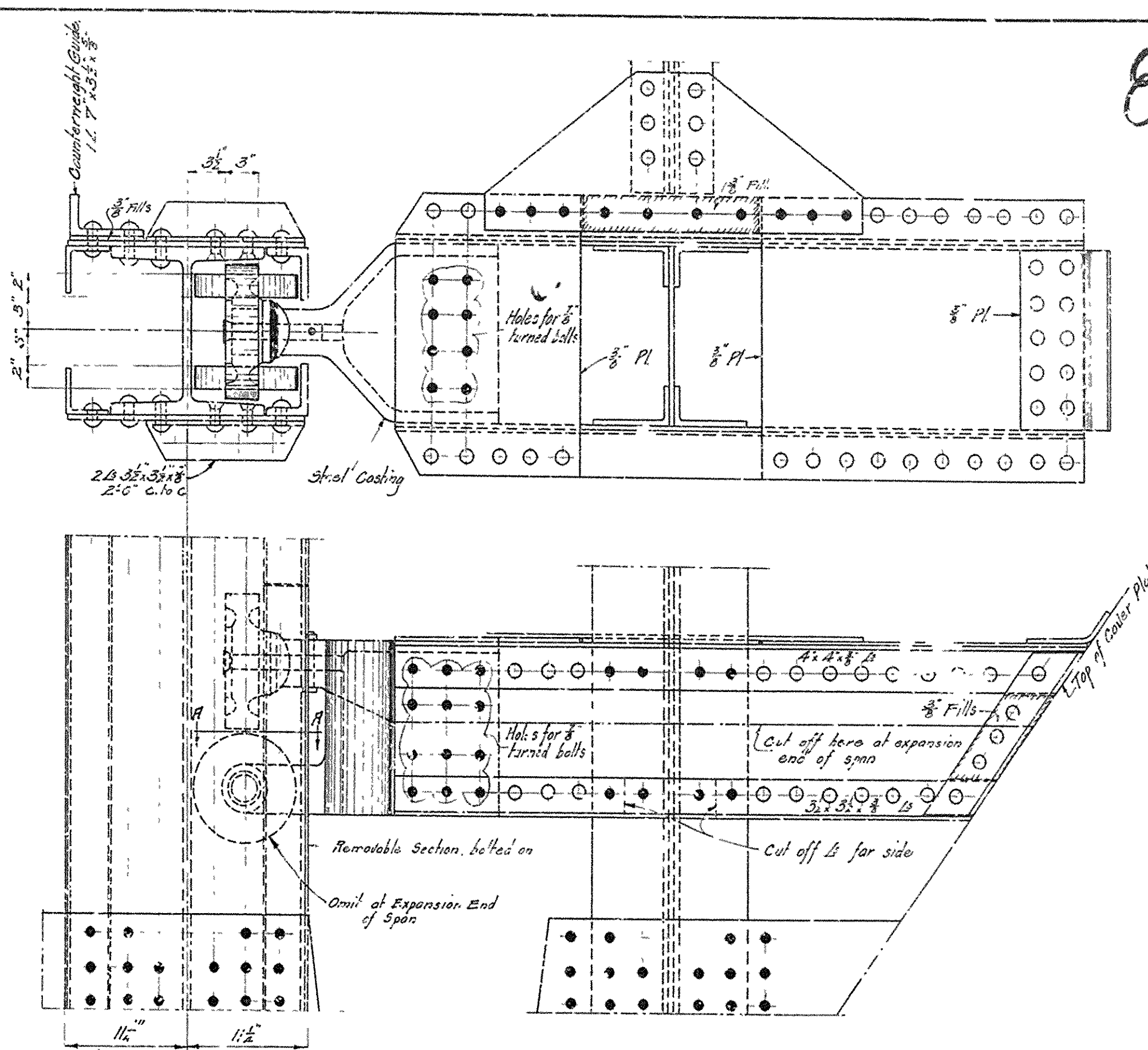
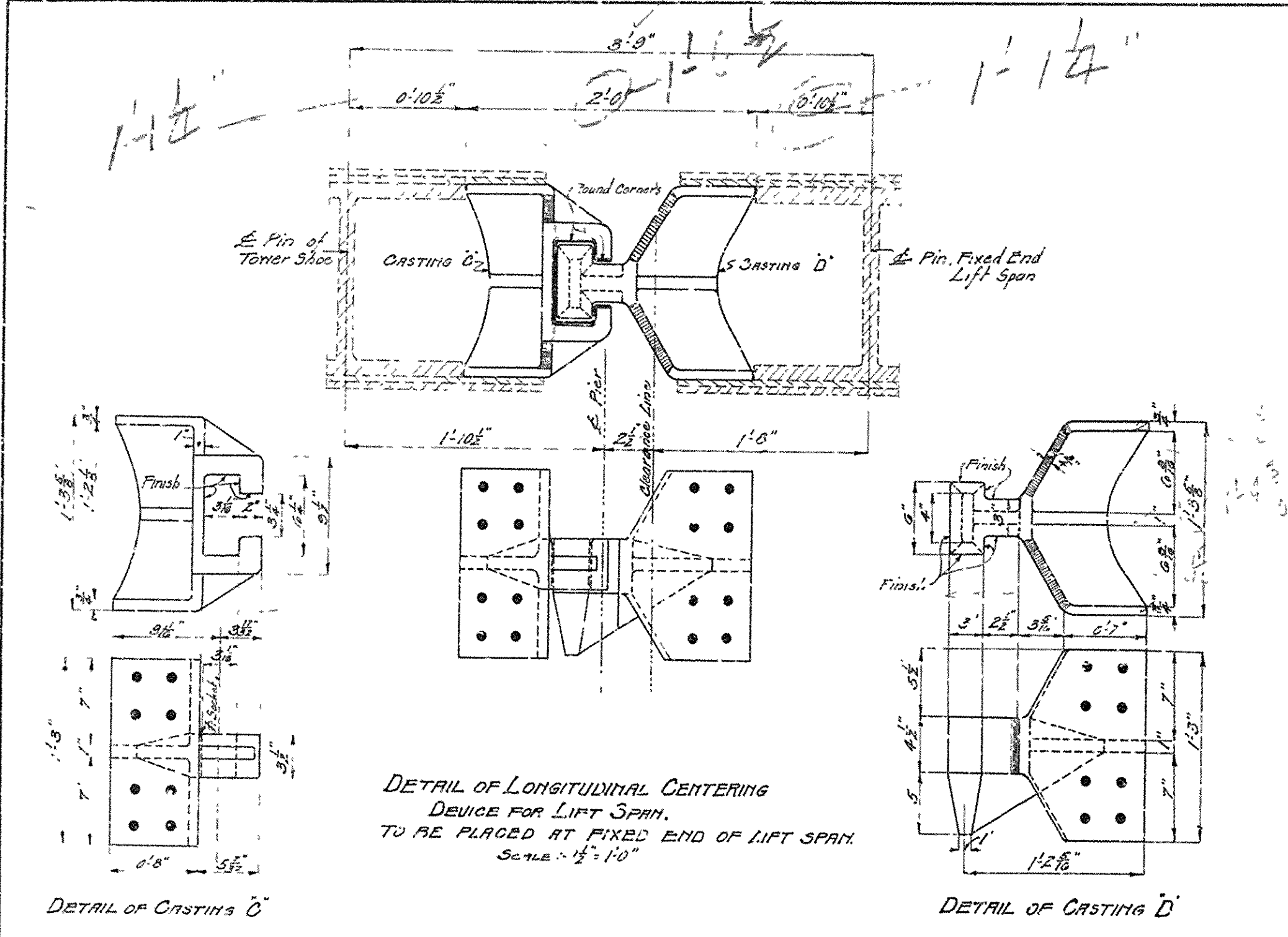


SECTION CD shows details
of counterweight

BRIDGE OVER ARKANSAS RIVER
NEAR PINE BLUFF, ARKANSAS.
MACHINERY, TOWERS COUNTERWEIGHT FRAME,
& SPECIAL STRUCTURAL STEEL FOR LIFT SPAN.
Scale as shown.

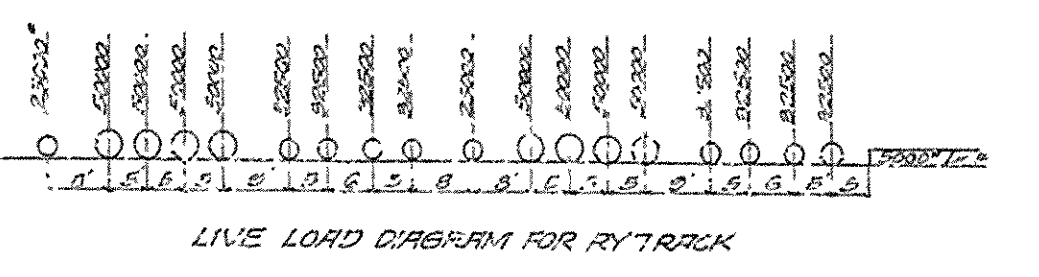
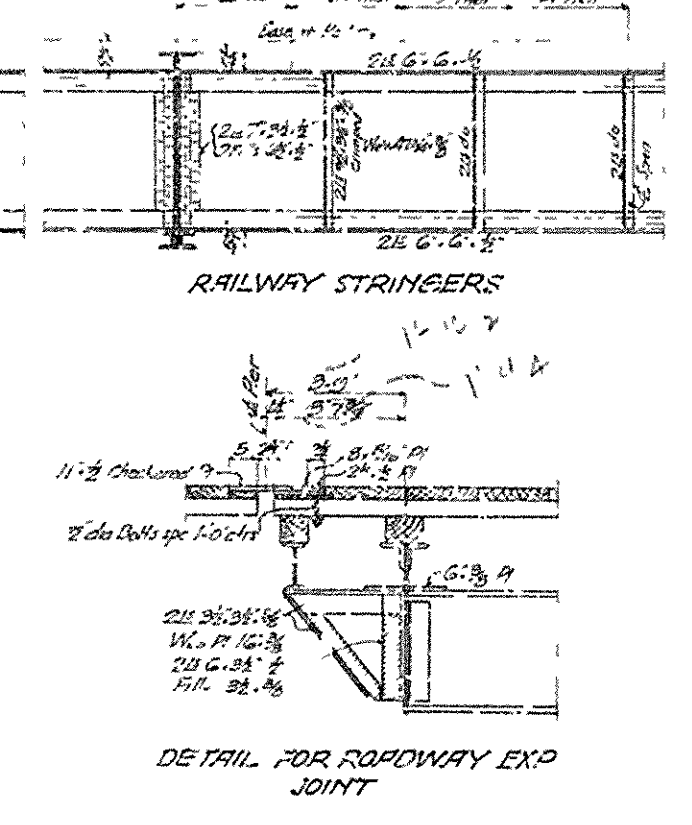
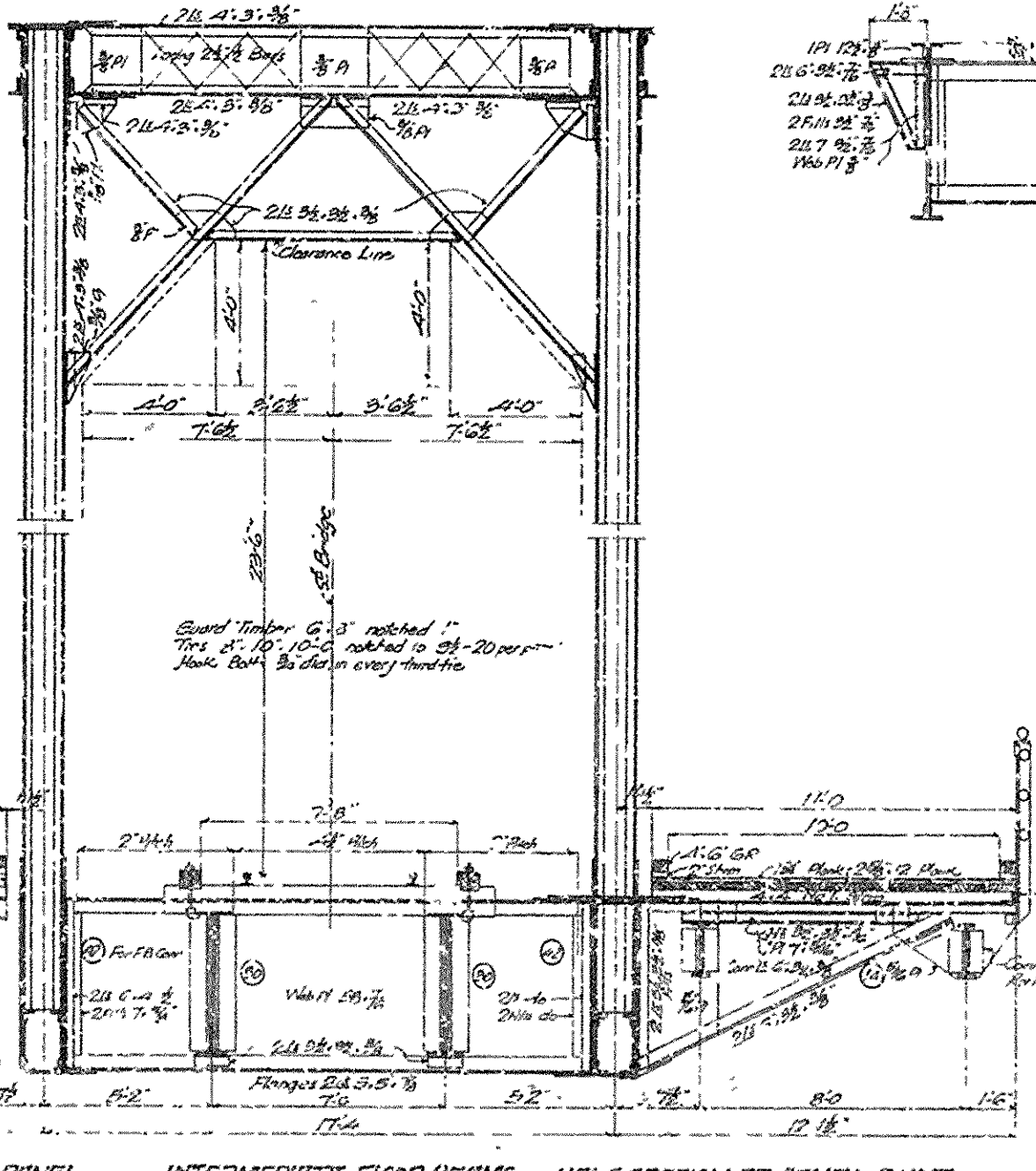
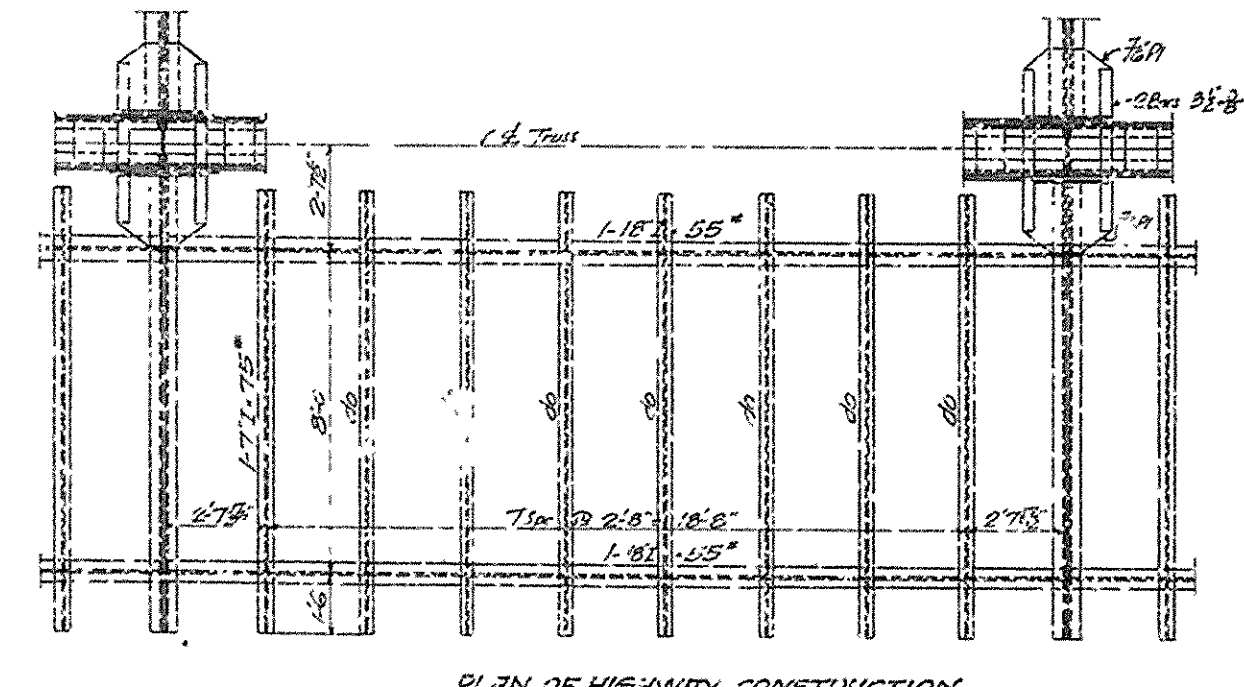
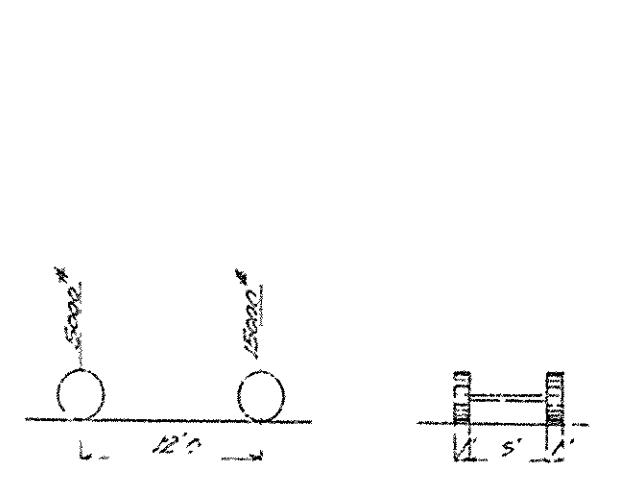
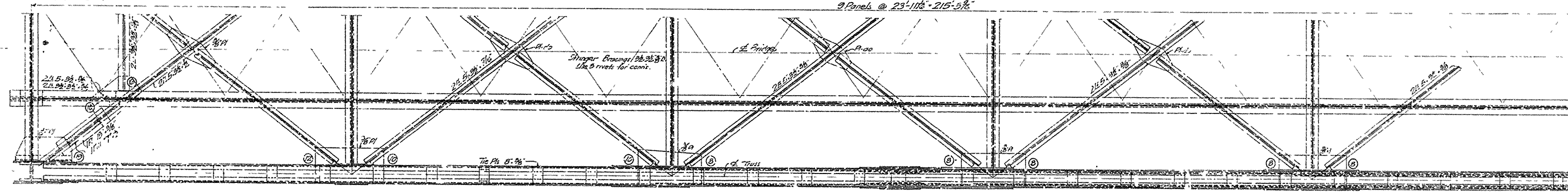
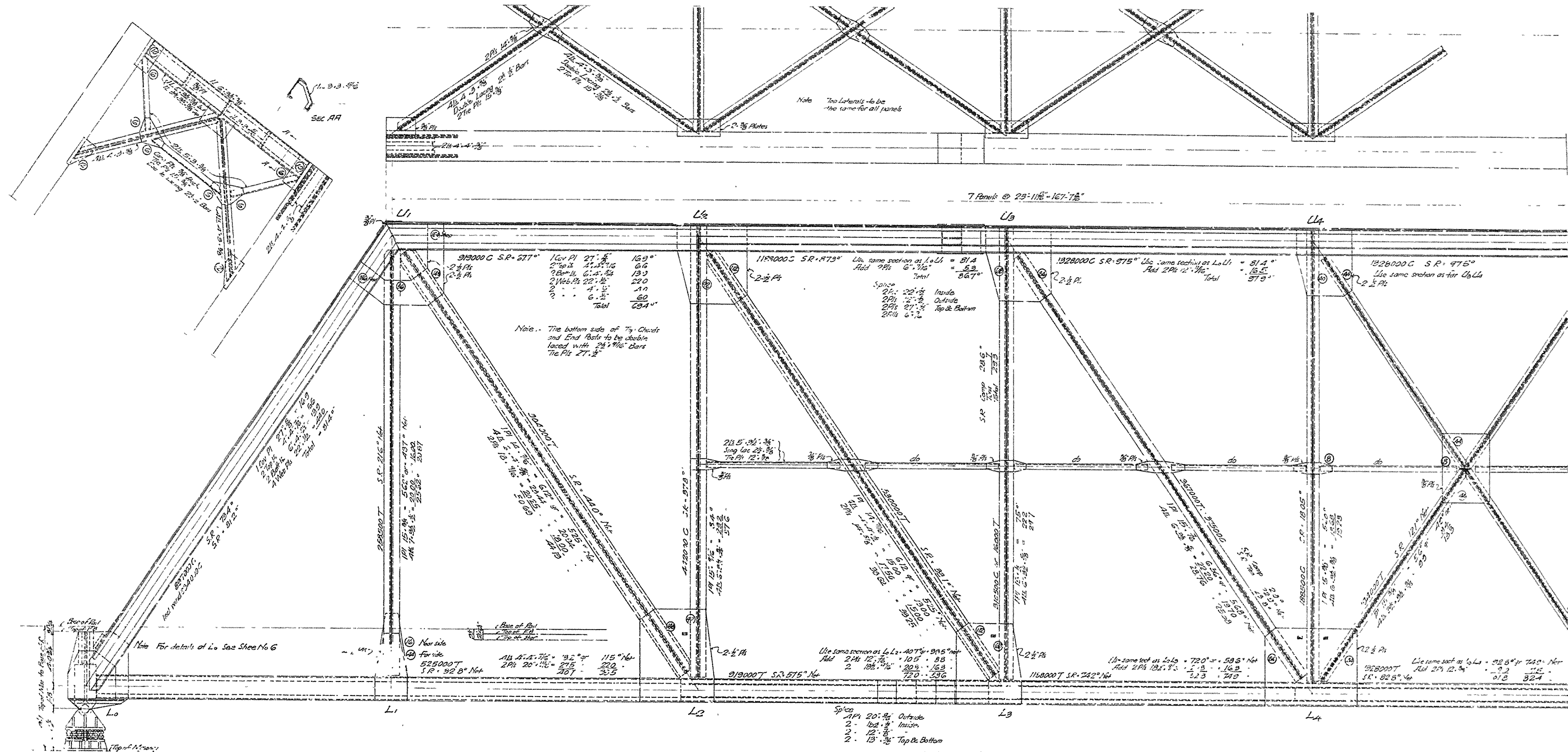
JEFFERSON COUNTY BRIDGE DISTRICT.
Made by V.W.C.
Designed by J.W. S.H. 5-11-12
Checked by
Hedrick & Co. Inc.,
Consulting Engineers,
Kansas City, Mo.

SHEET NO 7



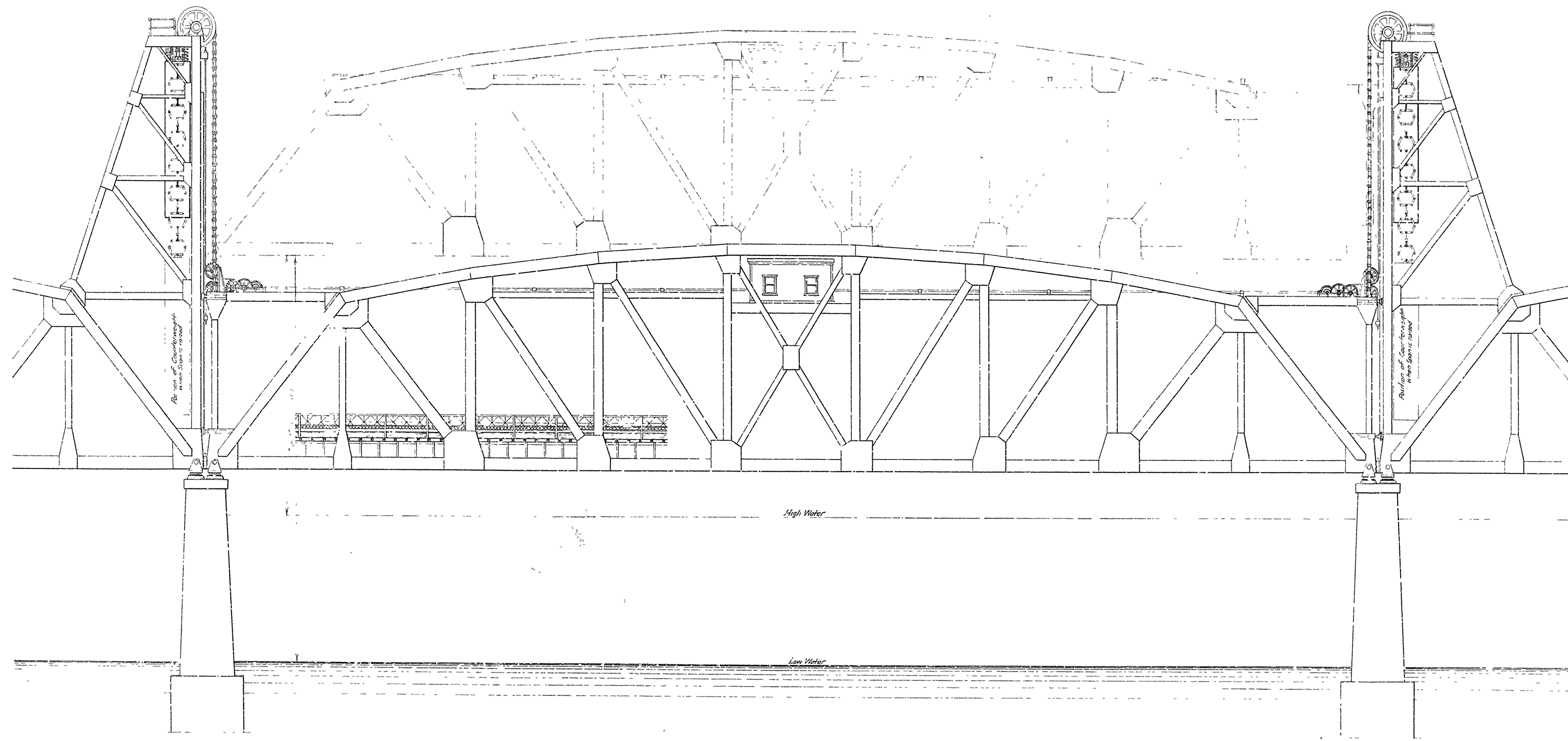
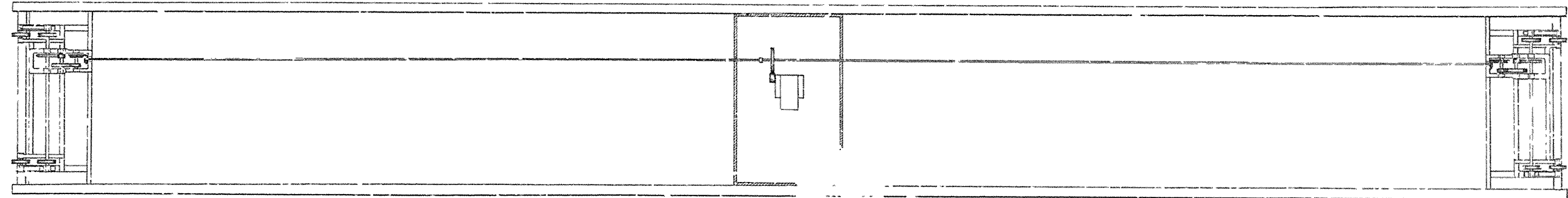
BRIDGE OVER ARKANSAS RIVER
NEAR PINE BLUFF ARKANSAS
DETAILS OF SHOES, JOINT & LIFT SPAN GUIDES
Scale as Given
JEFFERSON COUNTY BRIDGE DISTRICT

Made by: W.C. B.R.M.D. 4-30-12
Drawn by: R.M.B. 5-2-12
Checked by: [Signature]
& Cochrane
Ving Engr's
Kansas City, Mo.

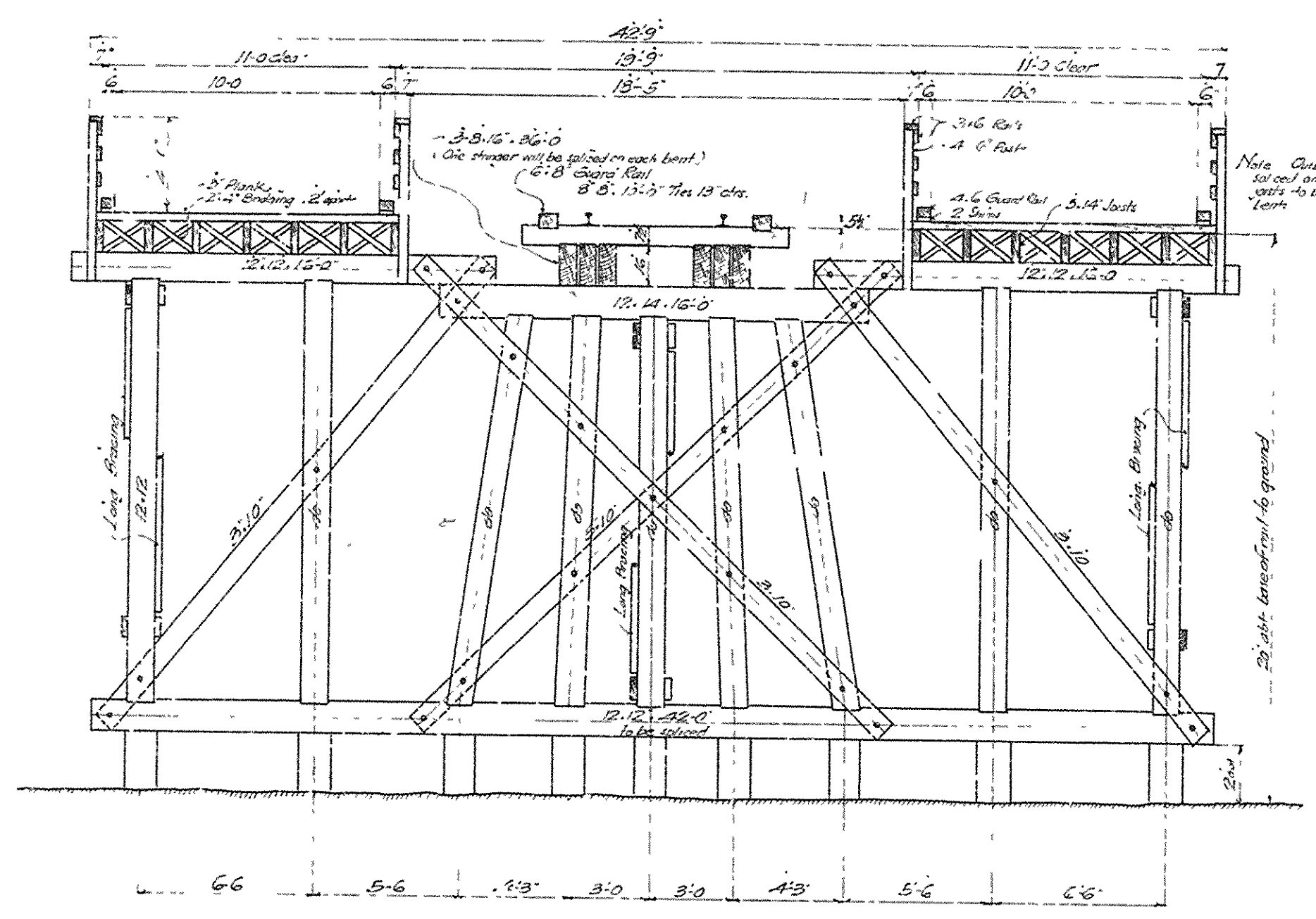


BRIDGE OVER ARKANSAS RIVER
 NEAR PINE BLUFF, ARKANSAS.
 STRESSES & SECTIONS FOR 215'-3 1/2" SPAN
 Scale: 1/4" = 1'-0"
 JEFFERSON COUNTY BRIDGE DISTRICT

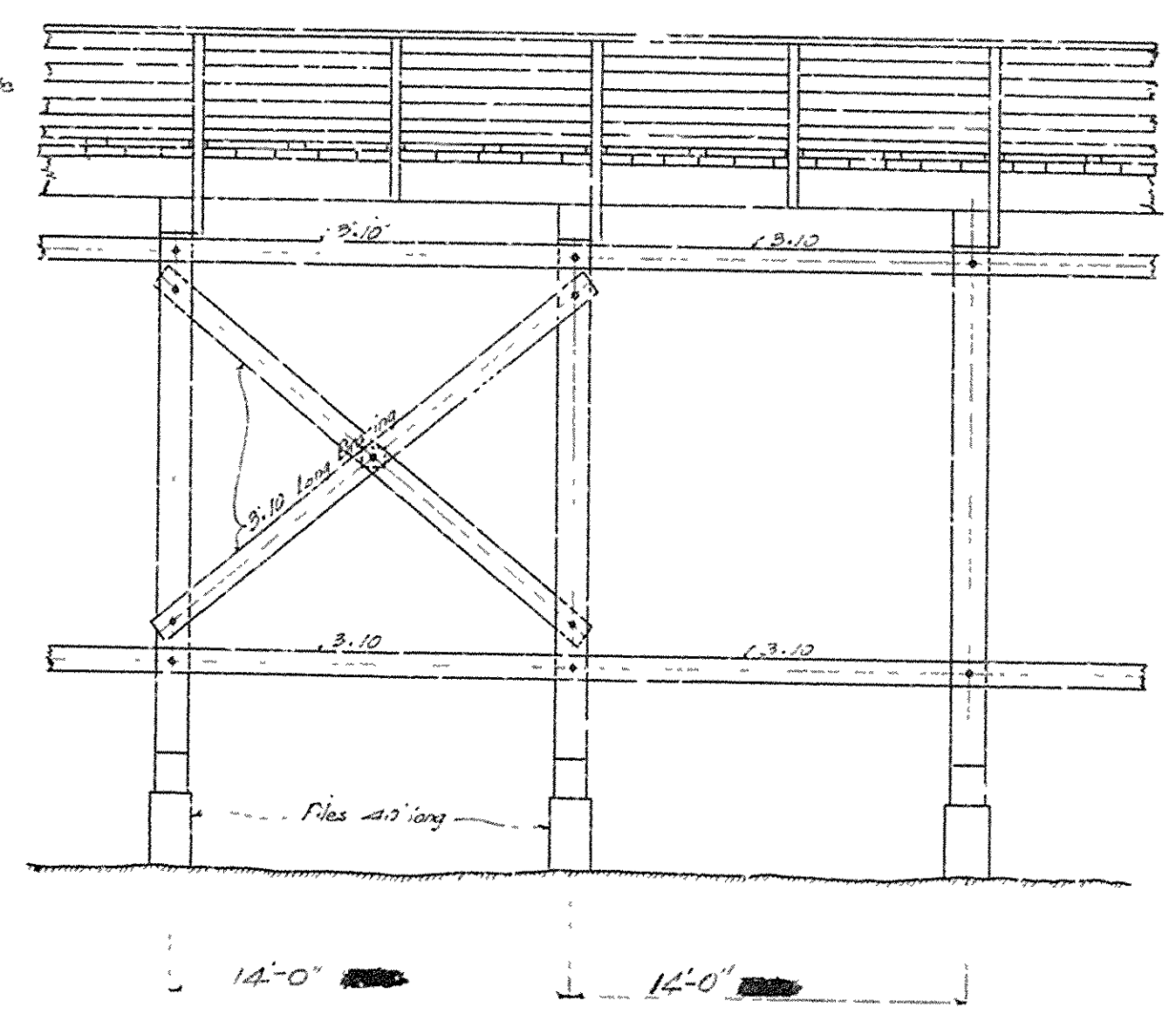
Made by: Patrick B. Cochran, Consulting Engineer, Kansas City, Mo.
 Traced by: J.H. B.P.'2
 Checked by: Kansas City, Mo.



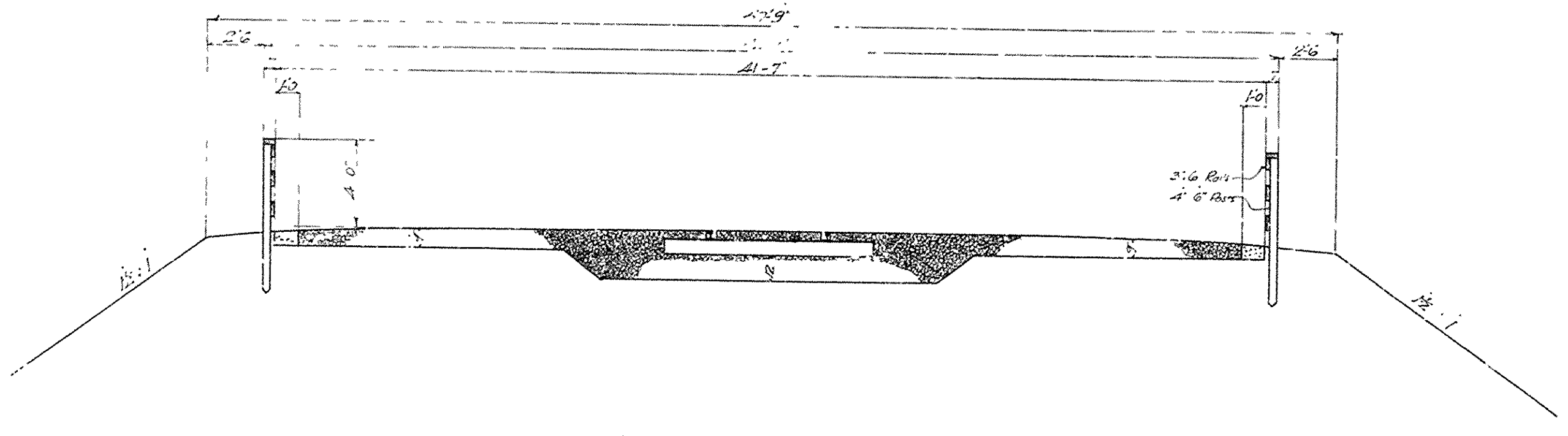
DESIGN FOR PROPOSED BRIDGE
 OVER
 ARKANSAS RIVER NEAR PINE BLUFF
 SKETCH SHOWING LIFT SPAN & MECHANISM FOR OPERATING SAME
 Scale 1"=10'-0"
 Made by V.M.C. Checked by J.M.B.S.U.
 Checked by J.M.B.S.U. Checked by J.M.B.S.U.
 Kansas City, Mo.
 SHEET No. 4, P



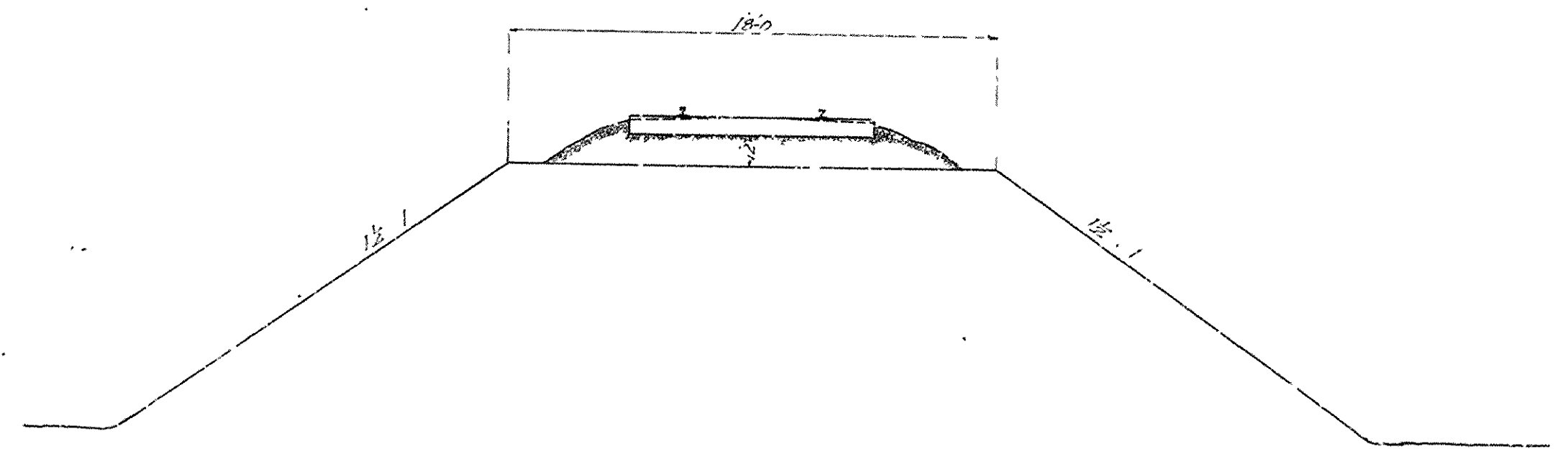
CROSS SECTION OF TIMBER TREESTLE



LONGITUDINAL ELEVATION



CROSS SECTION OF EARTH EMBANKMENTS AT NORTH END OF STRUCTURE & SOUTH END OF TIMBER TREESTLE



CROSS SECTION OF EARTH EMBANKMENT FOR RAILWAY TRACK

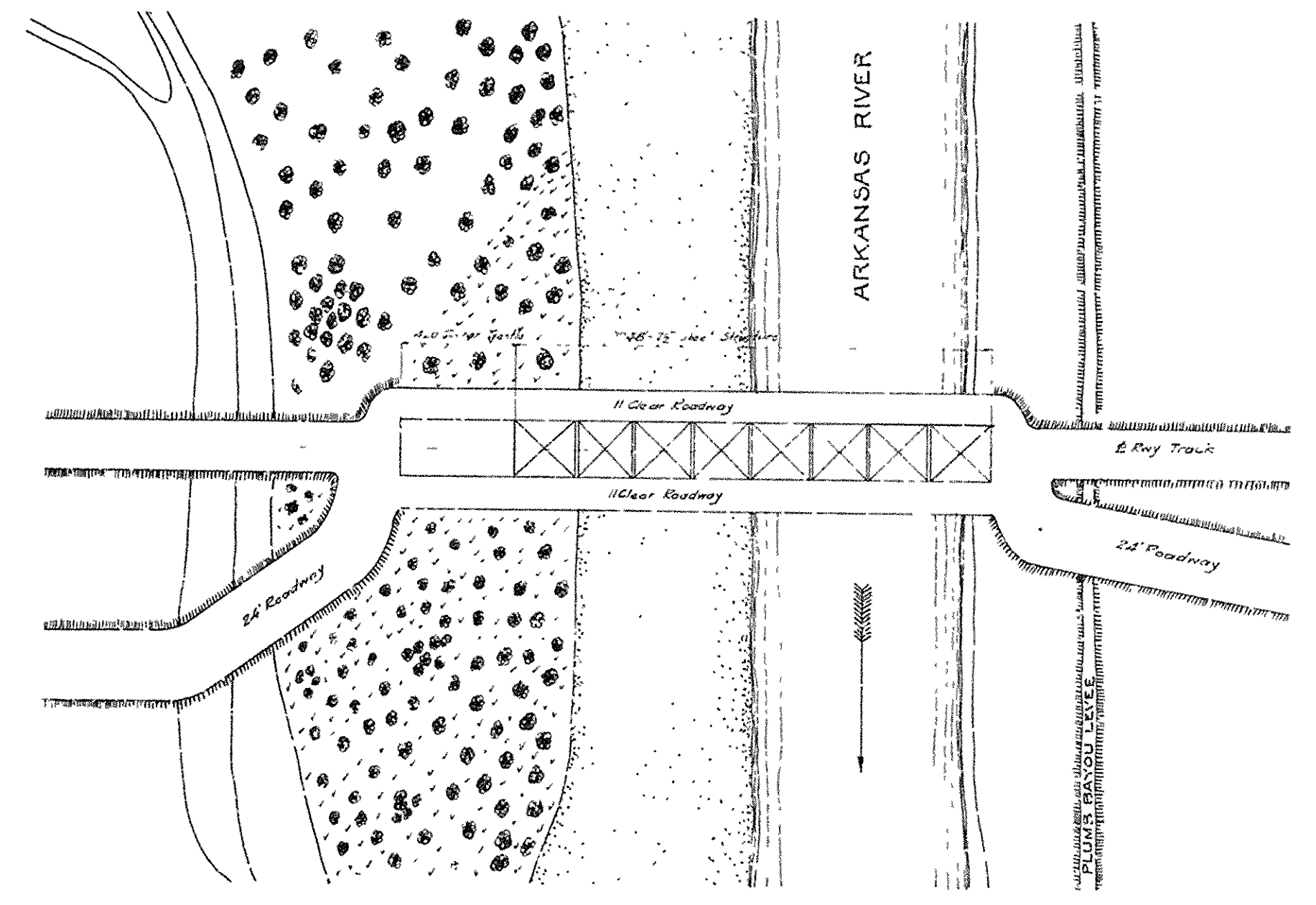
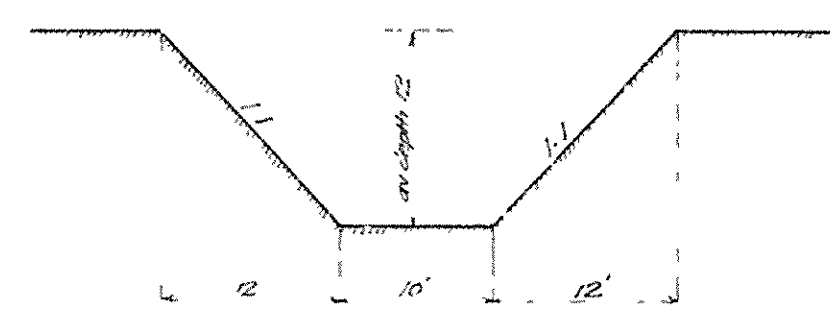


DIAGRAM SHOWING PROPOSED ARRANGEMENT OF APPROACHES (Not to scale)

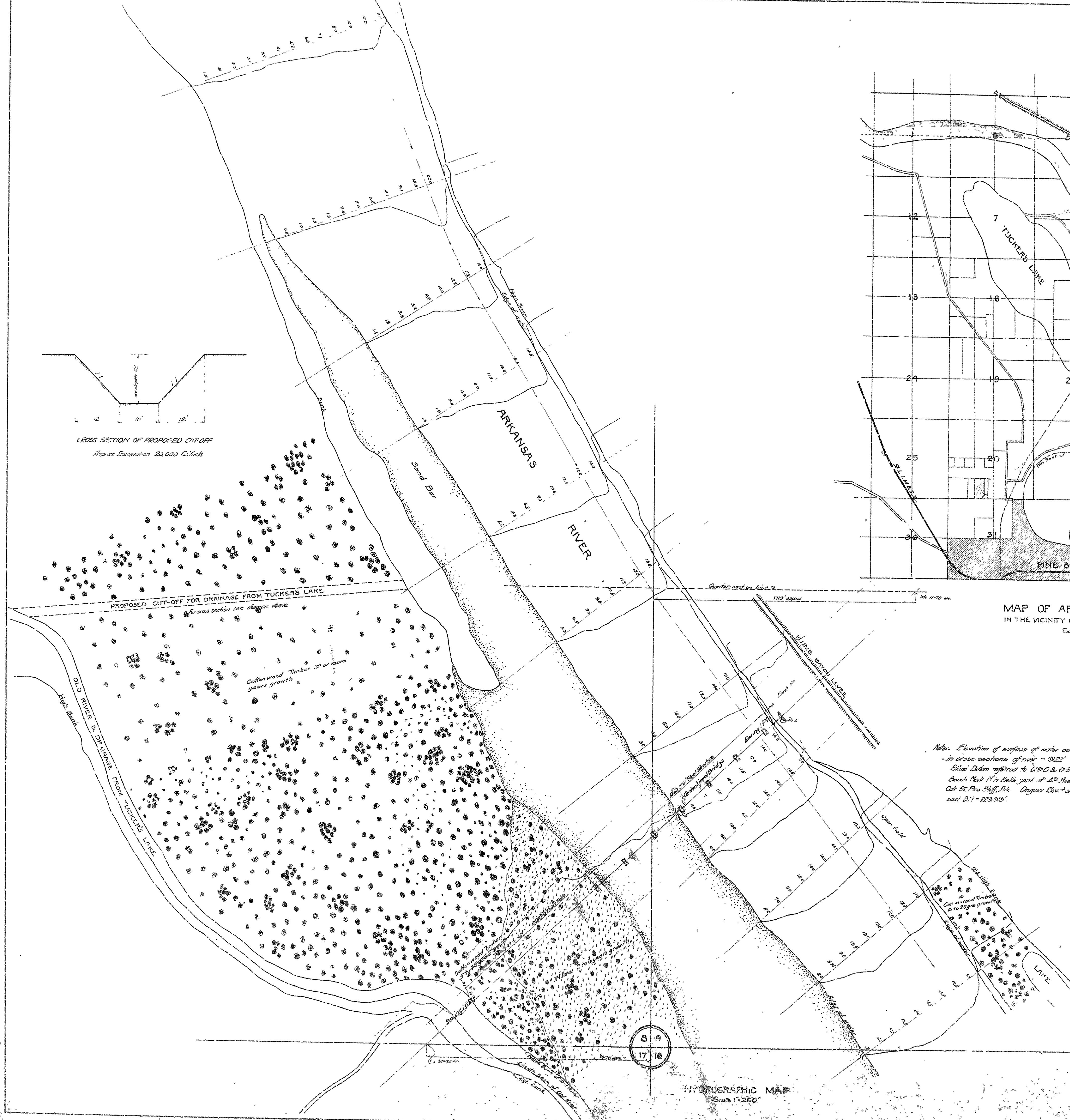
BRIDGE OVER ARKANSAS RIVER
 NEAR PINE BLUFF, ARKANSAS
 DETAILS OF APPROACHES
 Scale: 1/4" = 1'-0"
 JEFFERSON COUNTY BRIDGE DISTRICT.

Made & Found by J.M. G. 12
 Checked by
 Patrick & Cochran,
 Consulting Engineers,
 Kansas City, Mo.

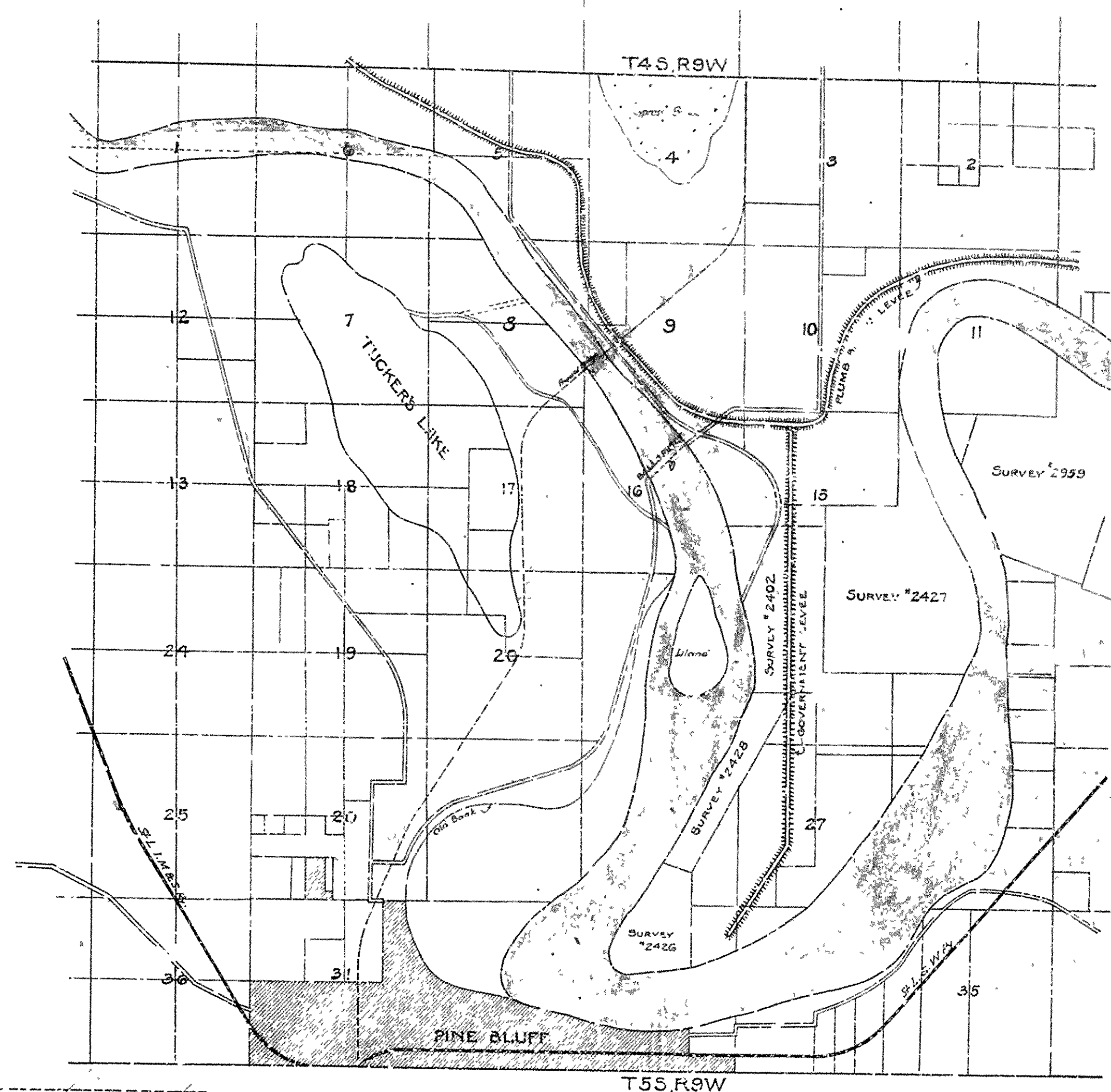
SHEET No 4



CROSS SECTION OF PROPOSED CUT-OFF
Approx. Extension 24,000 Cu Yards



HYDROGRAPHIC MAP
Scale 1"=250'



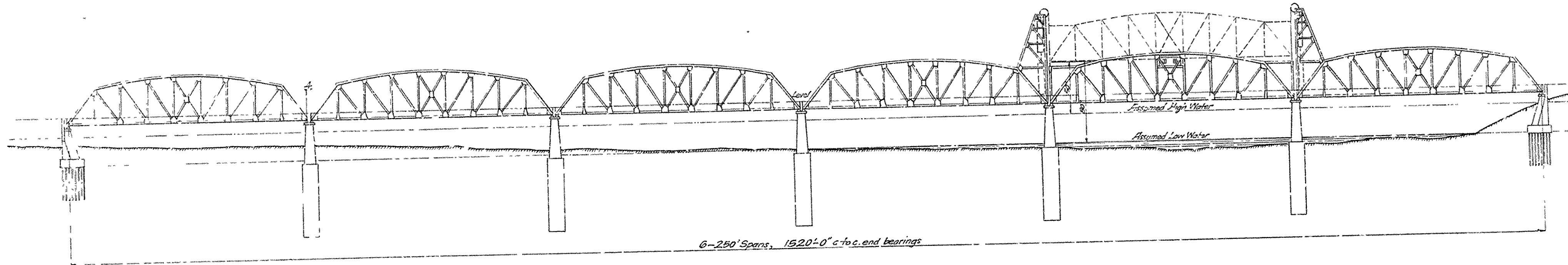
MAP OF ARKANSAS RIVER
IN THE VICINITY OF PINE BLUFF ARKANSAS
Scale 2"=1 mile

Note: Elevation of surface of water as shown
in cross sections of river = 322'
Bench Mark referred to U.S.C. & G.S.
Bench Mark in Ball's yard at 129 Ave. and
Cot. St., Pine Bluff, Ark. Original Elevation of
said B.M. = 223.33'

DESIGN FOR PROPOSED BRIDGE
OVER
ARKANSAS RIVER NEAR PINE BLUFF

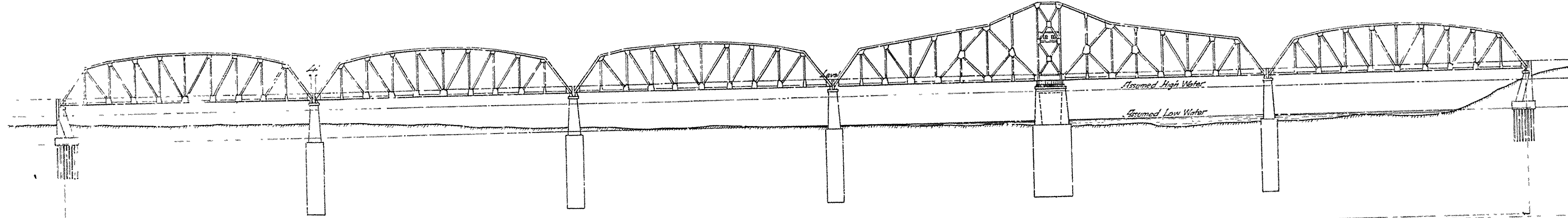
HYDROGRAPHIC & LOCATION MAPS
Scales as noted

Drawn by F.H.W.
17-18-11
8-31-12
Hedrick & Cochrane,
Consulting Engineers,
Kansas City, Mo.



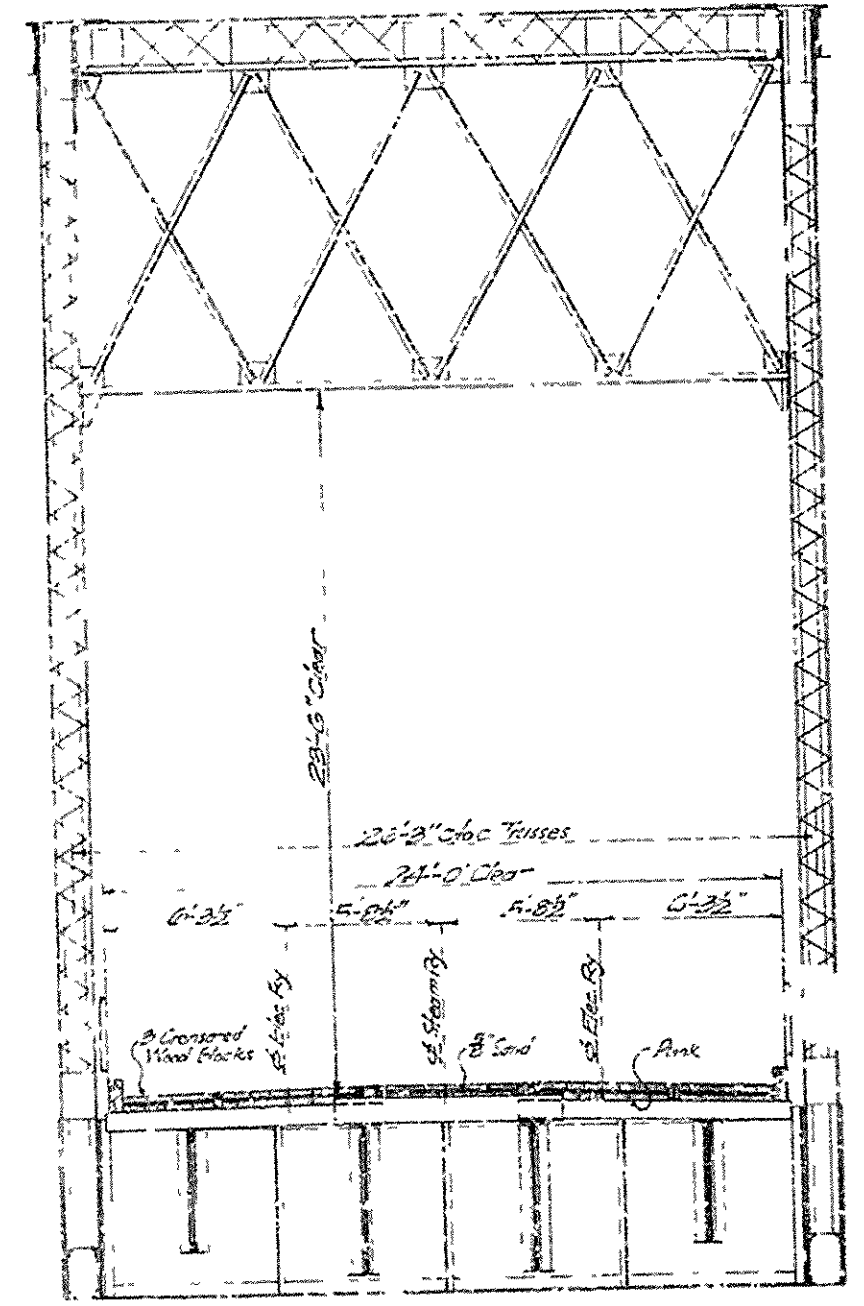
6-250' Spans, 1520'-0" c/c end bearings

LAYOUT FOR LIFT BRIDGE

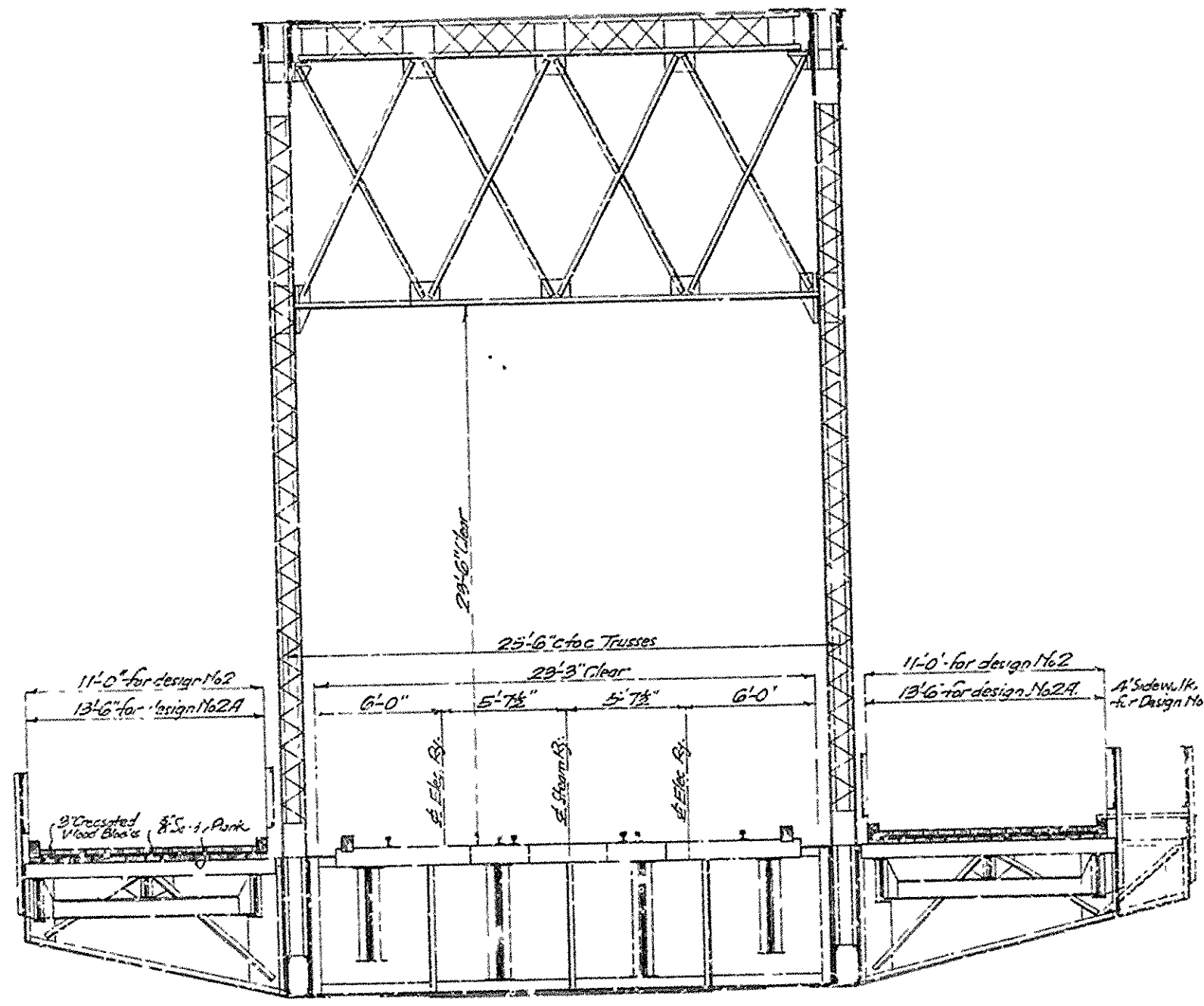


4-265' Spans & 1-444' Draw Span, 1522'-0" c/c end bearings

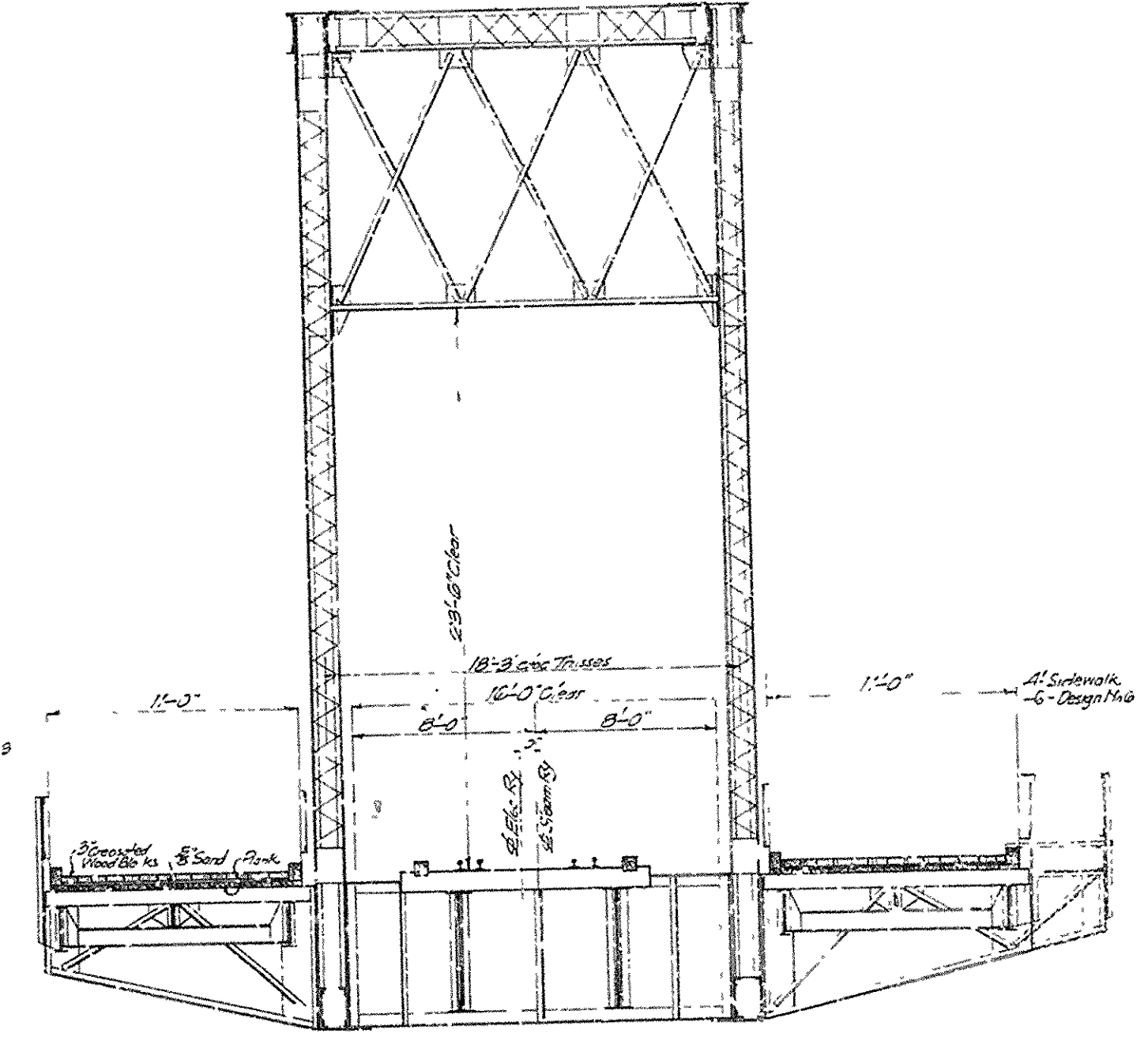
*Point to this
will work
11-23-11*



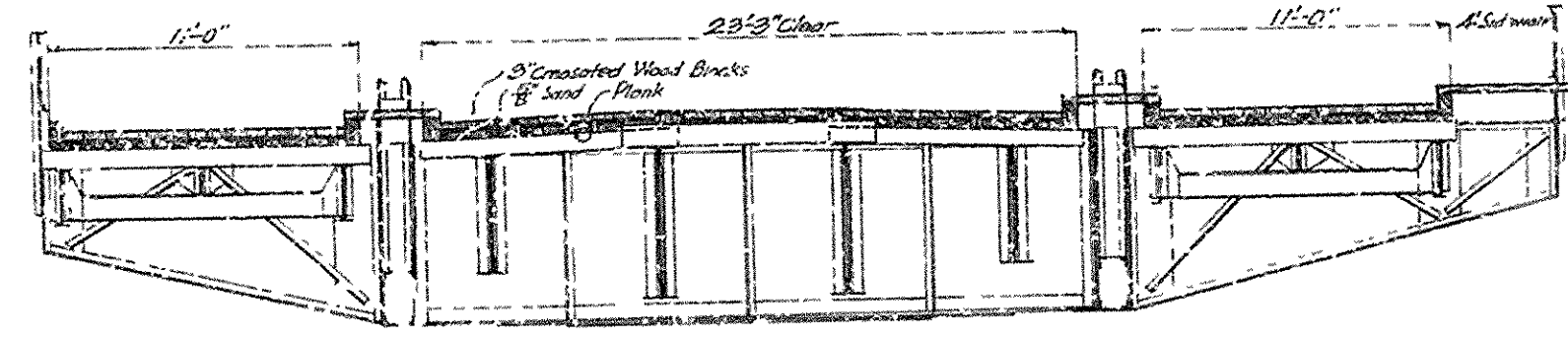
DESIGN NO. 1



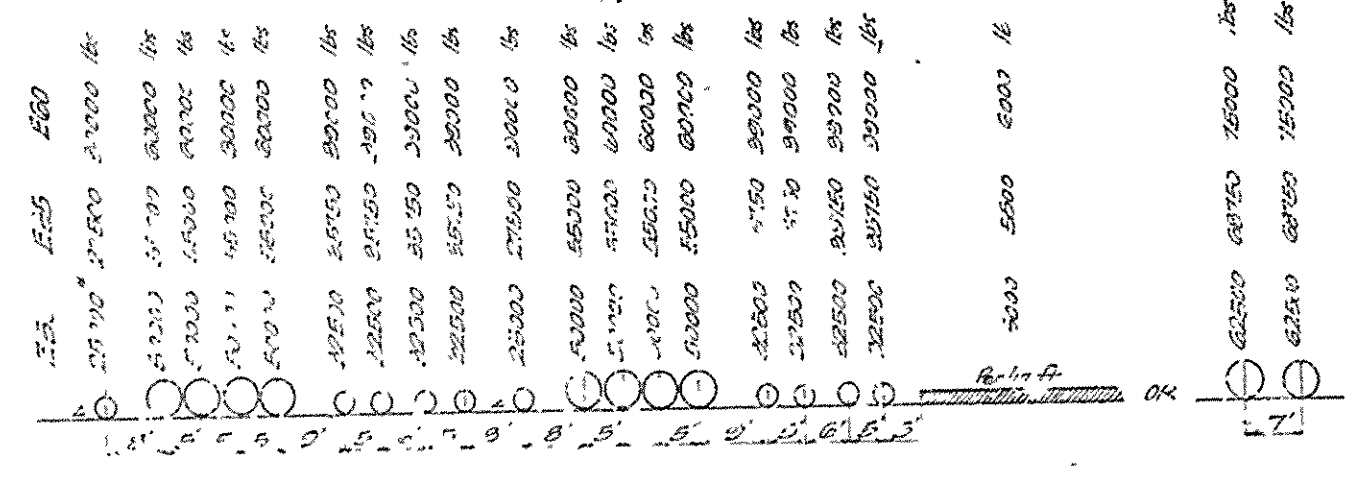
DESIGNS NO. 2, NO. 2A & NO. 3



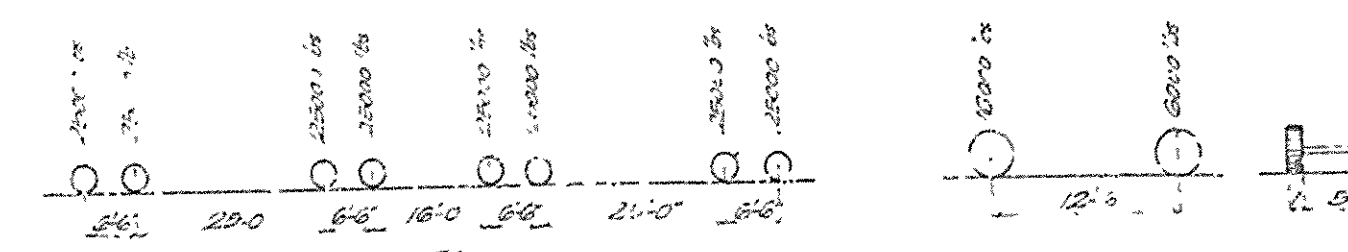
DESIGNS NO. 5 & NO. 6



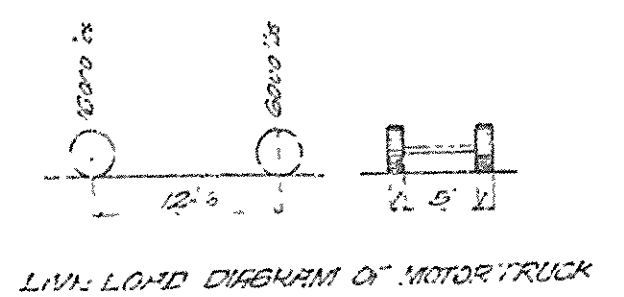
DESIGN NO. 4



LINE LOAD DIAGRAM FOR STEAM RY TRACK



LINE LOAD DIAGRAM FOR ELECTRIC RY TRACK



LINE LOAD DIAGRAM OF MOTOR TRUCK

FORMULAE FOR IMPACTS
For Railway Loads
For uniformly distributed Roadway Loads
For Motor Truck and Sidewalk

ASSUMED LIVE LOADS					
Flooring	Shoppers	Fire Alarm	Trusses	Trusses	Trusses
Class E60	Class E60	Class E60	Class E60	Class E60	Class E60
Class E50	Class E50	Class E50	Class E50	Class E50	Class E50
Motor Truck	Motor Truck	Motor Truck	Motor Truck	Motor Truck	Motor Truck
Sidewalk	Sidewalk	Sidewalk	Sidewalk	Sidewalk	Sidewalk

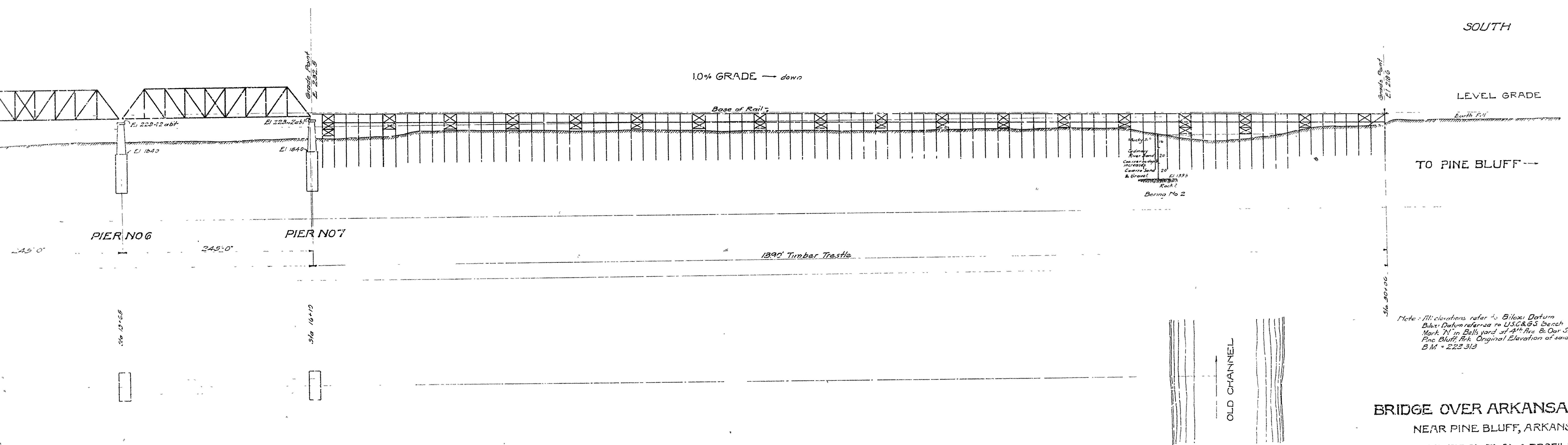
SUMMARY OF TOTAL COSTS OF BRIDGE			
Design No.	Description	Total Cost, Lift Span Layout	Total Cost, Summary
1	Double-track electric railway, single-track steam railway, roadway between tracks only	\$ 60	\$712000
2	Double-track electric railway, single-track steam railway, two 11-ft roadways sets of trusses	814000	849000
2A	Same as No. 2 except that roadways are 18'-6" wide	844000	870000
3	Same as No. 2 except that one 11-ft sidewalk is added	832000	857000
4	Same as No. 3 except that one 11-ft sidewalk is added	868000	893000
5	Single-track electric railway, single-track steam railway, two 11-ft roadways, outside of trusses	780000	788000
6	Same as No. 5 except that one 11-ft sidewalk is added	761000	769000

DESIGN FOR PROPOSED BRIDGE
OVER
ARKANSAS RIVER NEAR PINE BLUFF
PROPOSED CROSS SECTIONS & LIVE LOADS

Scale 7/8" = 1'-0"
Made by J. M. 11-6-11
Checked by J. M. 11-23-11
Revised 10-19-11
Designed by J. M. 11-6-11
Checked by J. M. 11-23-11
Designed by J. M. 11-6-11
Checked by J. M. 11-23-11

73

73



SOUTH

LEVEL GRADE

TO PINE BLUFF

Note: All elevations refer to Biloxi Datum
 Biloxi Datum reference to USGS Bench
 Mark 'N' in Ball's yard at 4th Ave. & Oak St.
 Pine Bluff, Ark. Original Elevation of said
 B.M. = 223.313

BRIDGE OVER ARKANSAS RIVER

NEAR PINE BLUFF, ARKANSAS.

GENERAL PLAN & PROFILE

Scale - 1"=60'-0"

JEFFERSON COUNTY BRIDGE DISTRICT.

Made & Traced by: R.W. B. & L. C. Hahnck & Cochrane,
 Consulting Engineers,
 Kansas City, Mo.

SHEET NO 10

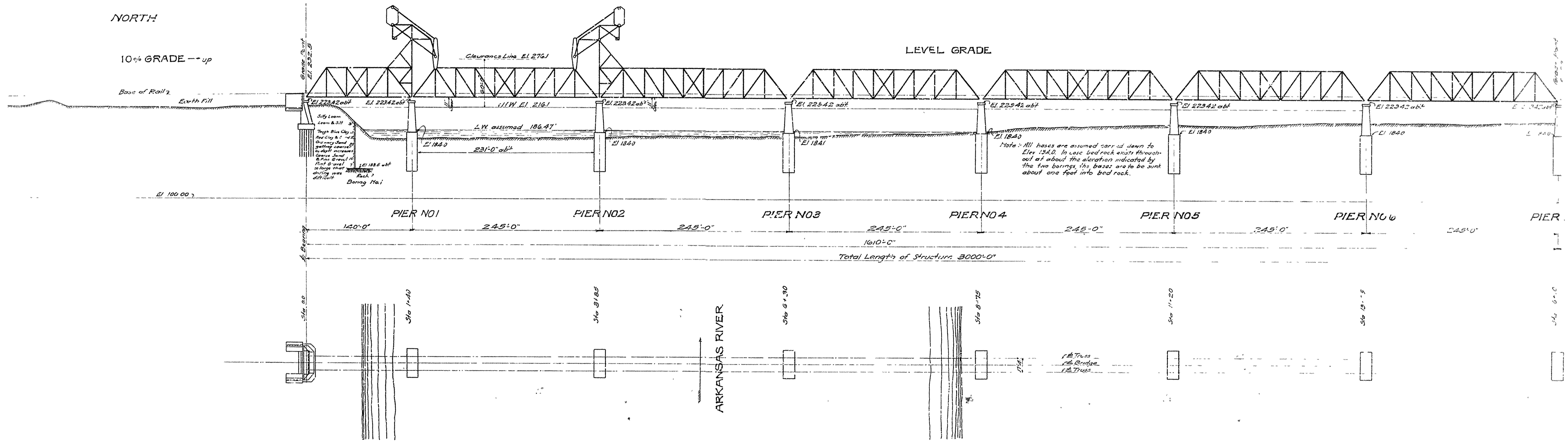
BR. No 2133 DRAWING No 5927

Note: In case the channel should shift from its present location any fixed span may be converted into a lift span

NORTH

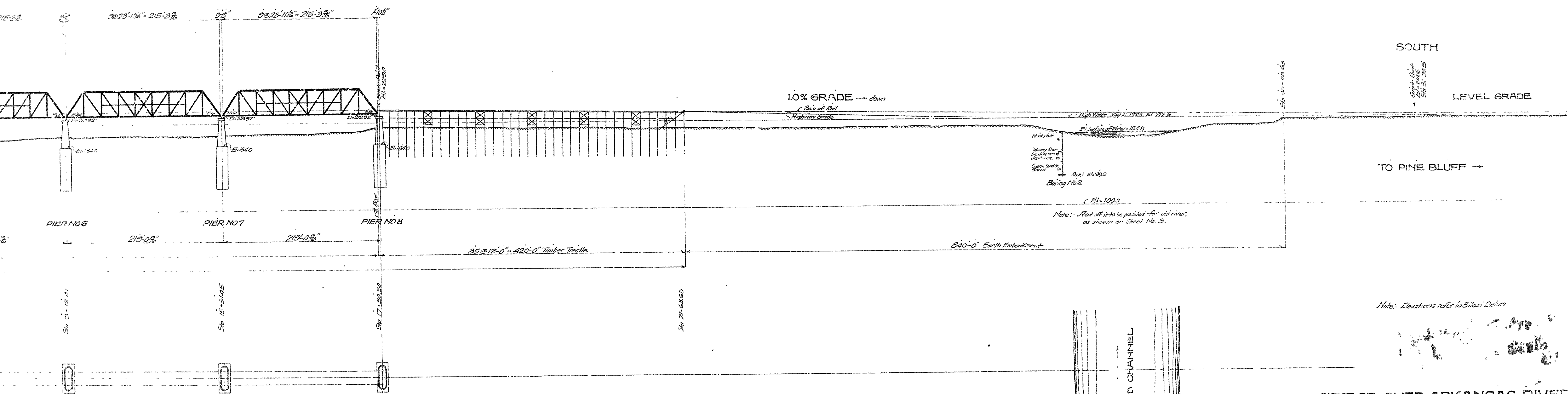
10% GRADE -- up

LEVEL GRADE



72

72



SOUTH
LEVEL GRADE

TO PINE BLUFF →

Note: Elevations refer to Biloxi Datum

BRIDGE OVER ARKANSAS RIVER
 NEAR PINE BLUFF, ARKANSAS
 GENERAL PLAN & PROFILE.
 Scale: 1"=60'-0"
 JEFFERSON COUNTY BRIDGE DISTRICT

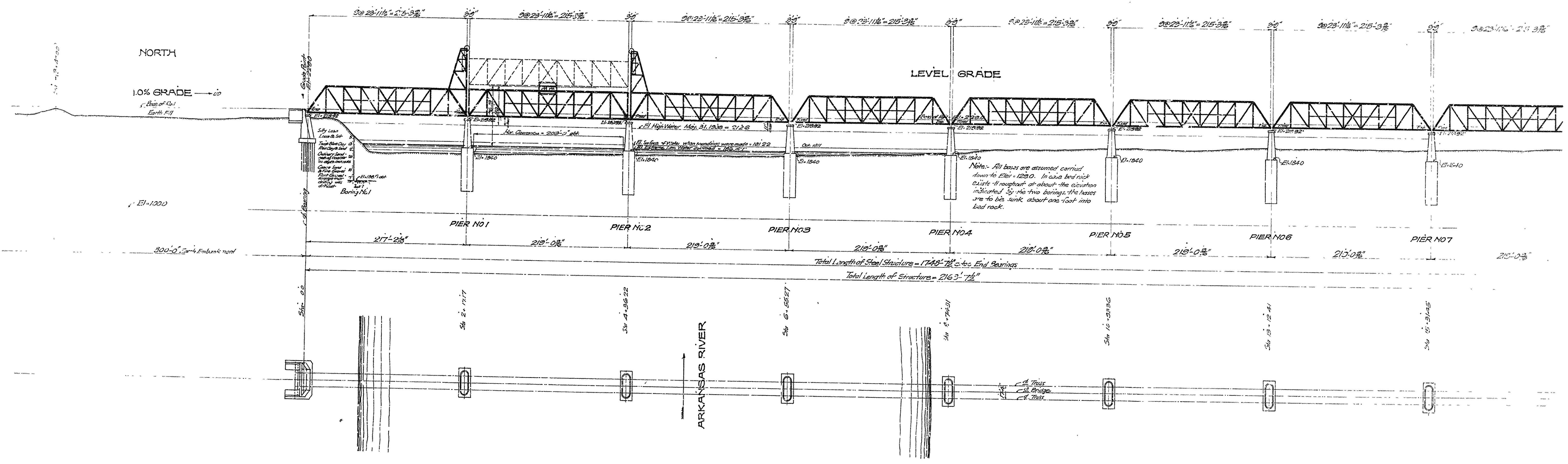
Made to Trace by J.M.
 Checked by J.W.
 Hadrick & Cochrane,
 Consulting Engineers,
 Kansas City, Mo.

SHEET NO. 18

BR No. 2153 CRMG No 5926

72

Note - In case the channel should shift from its present location, any fixed span may be converted into a 1/4 span.



Note - All bents are assumed carried down to Elev = 1230.0. In case bed rock exists throughout or about the location indicated by the two borings, the bents are to be sunk about one foot into bed rock.

Total Length of Steel Structure = 1749'-7 1/2" (excl. End Bearings)
 Total Length of Structure = 2163'-7 1/2"

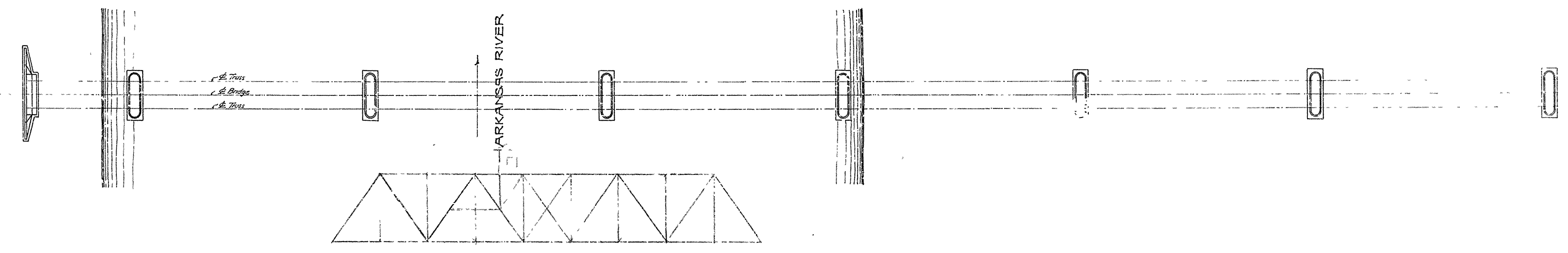
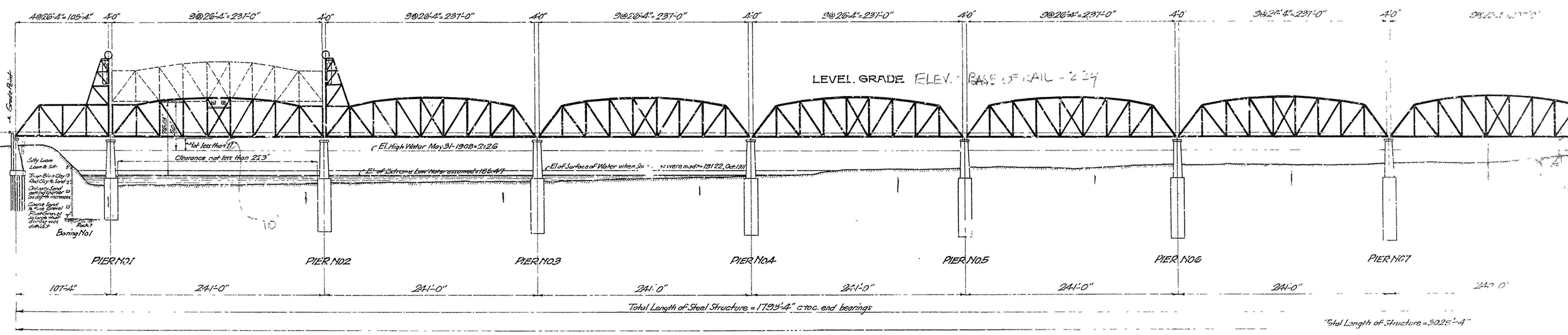
ARKANSAS RIVER

71

Note: In case the channel should shift from its present location, any fixed span may be converted into a lift span.

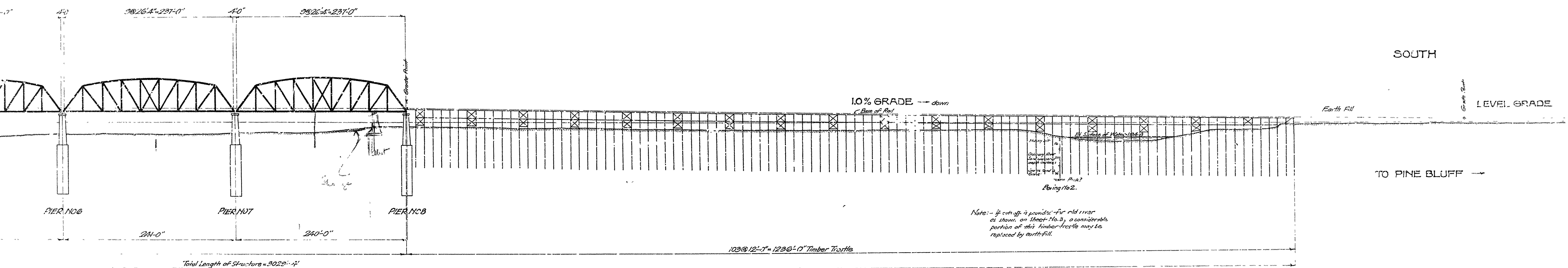
NORTH

1.0% GRADE — UP
Base of Riv.
Earth Fill



71

71



SOUTH

LEVEL GRADE

TO PINE BLUFF

Note:-- Elevations refer to Birney Datum

DESIGN FOR PROPOSED BRIDGE
OVER
ARKANSAS RIVER NEAR PINE BLUFF
GENERAL PLAN & PROFILE

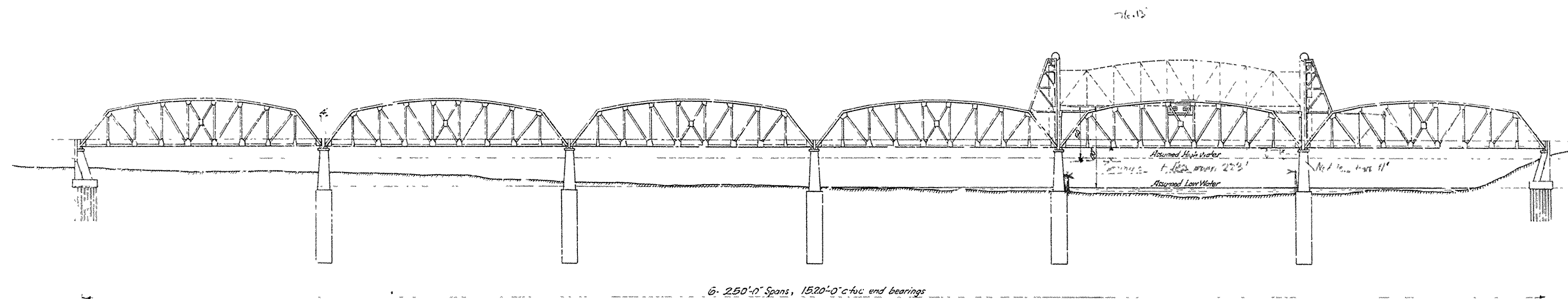
Scale 1" = 60'-0"

Made by J.M.
Checked by J.M.
10-13-11

Hedrick & Cochran,
Consulting Engineers,
Kansas City, Mo.

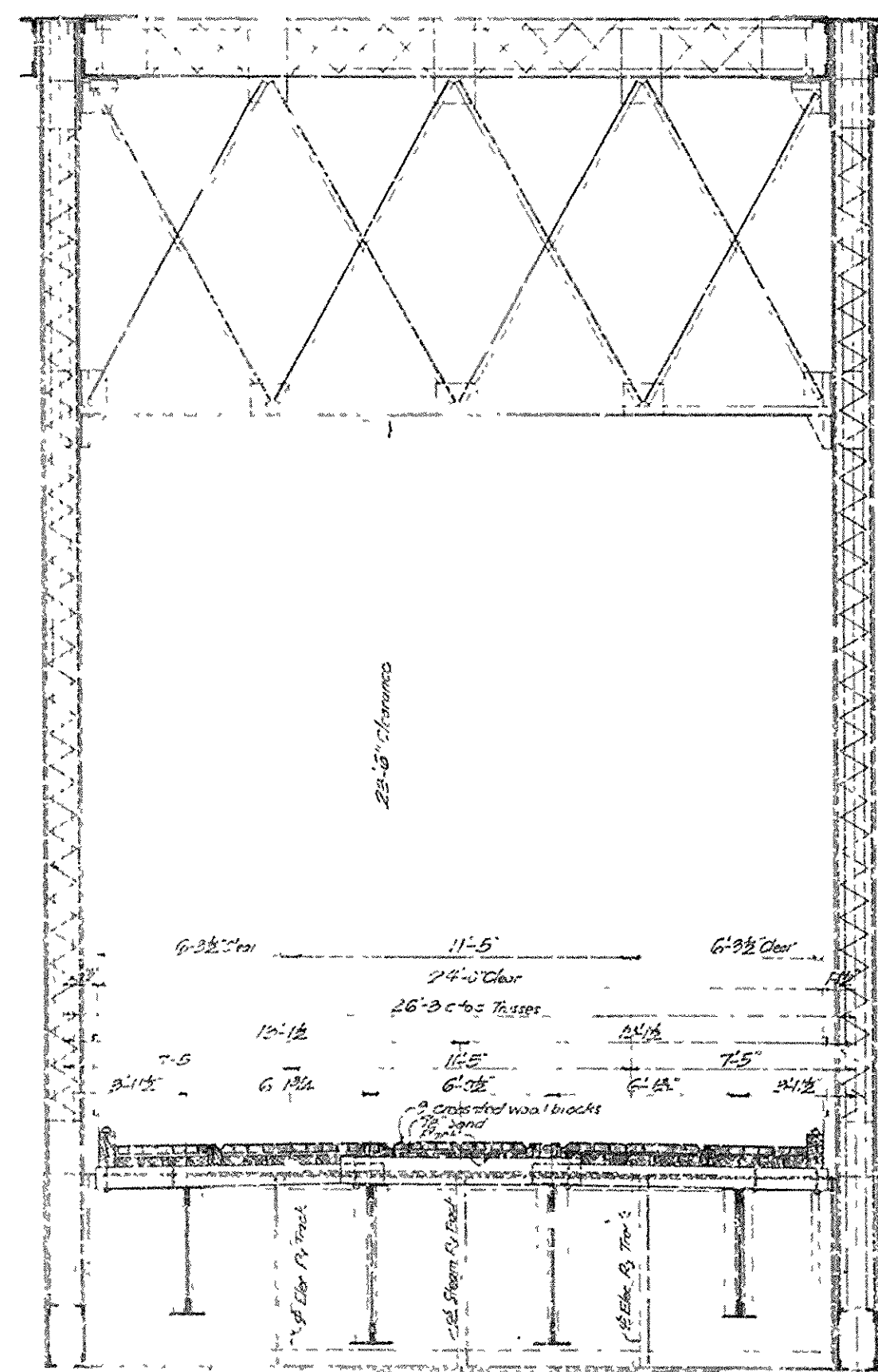
SHEET No. 1A.

BR No. 2133 DRWG No. 5925

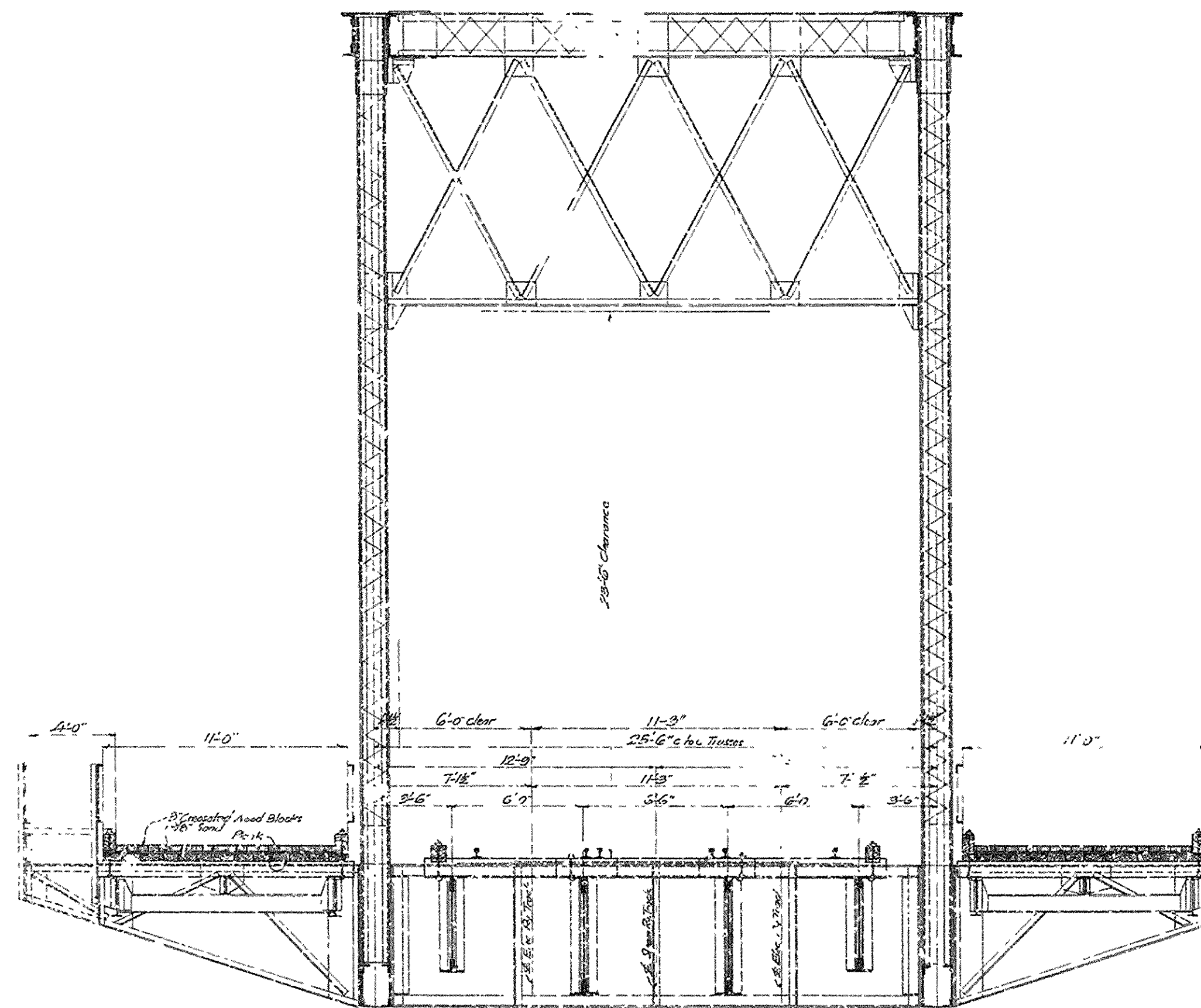


5. 250'-0" Spans, 1520'-0" c-to-c end bearings

Scale 1" = 60'-0"



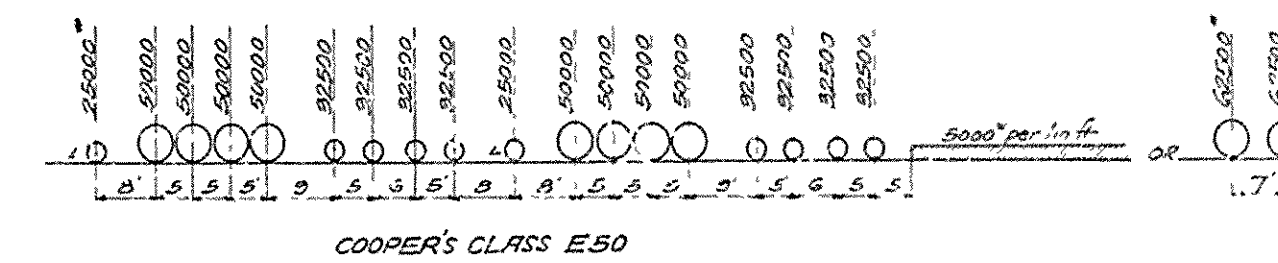
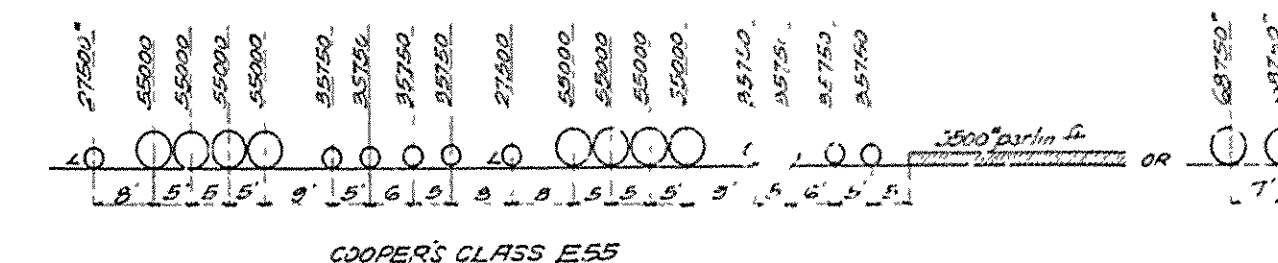
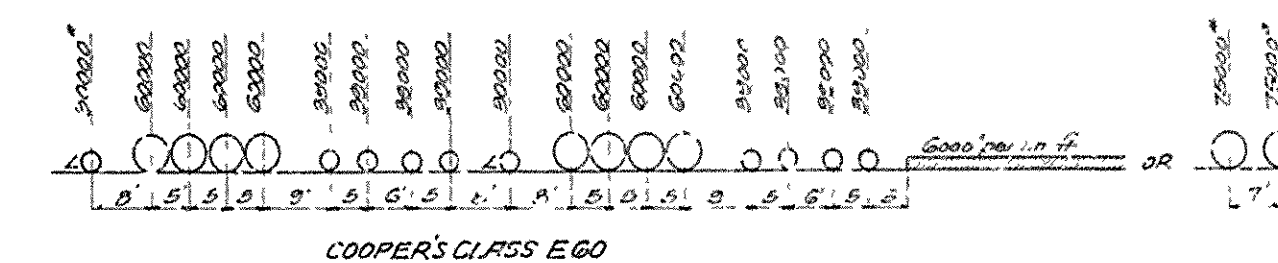
CROSS SECTION OF SPAN
Design No. 1



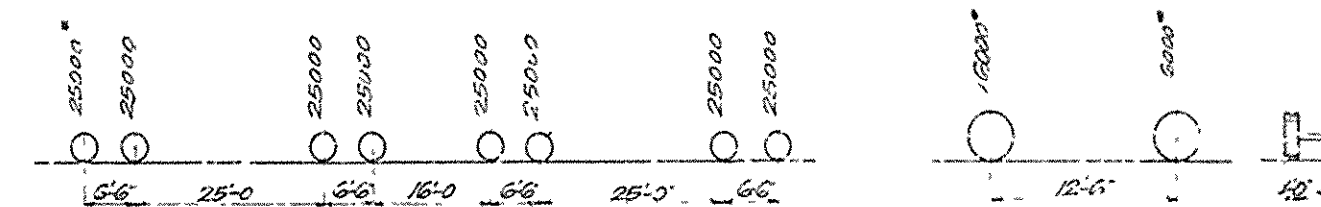
A 1/2" sidewalk to be added
on one side only in
Design No. 3

CROSS SECTION OF SPAN
Design No. 2

Scale 1/4" = 1'-0"



LIVE LOAD DIAGRAM FOR STEAM RY. TRACK



LIVE LOAD DIAGRAM FOR ELECTRIC RY. TRACKS

LIVE LOAD DIAGRAM OF MOTOR TRUCK

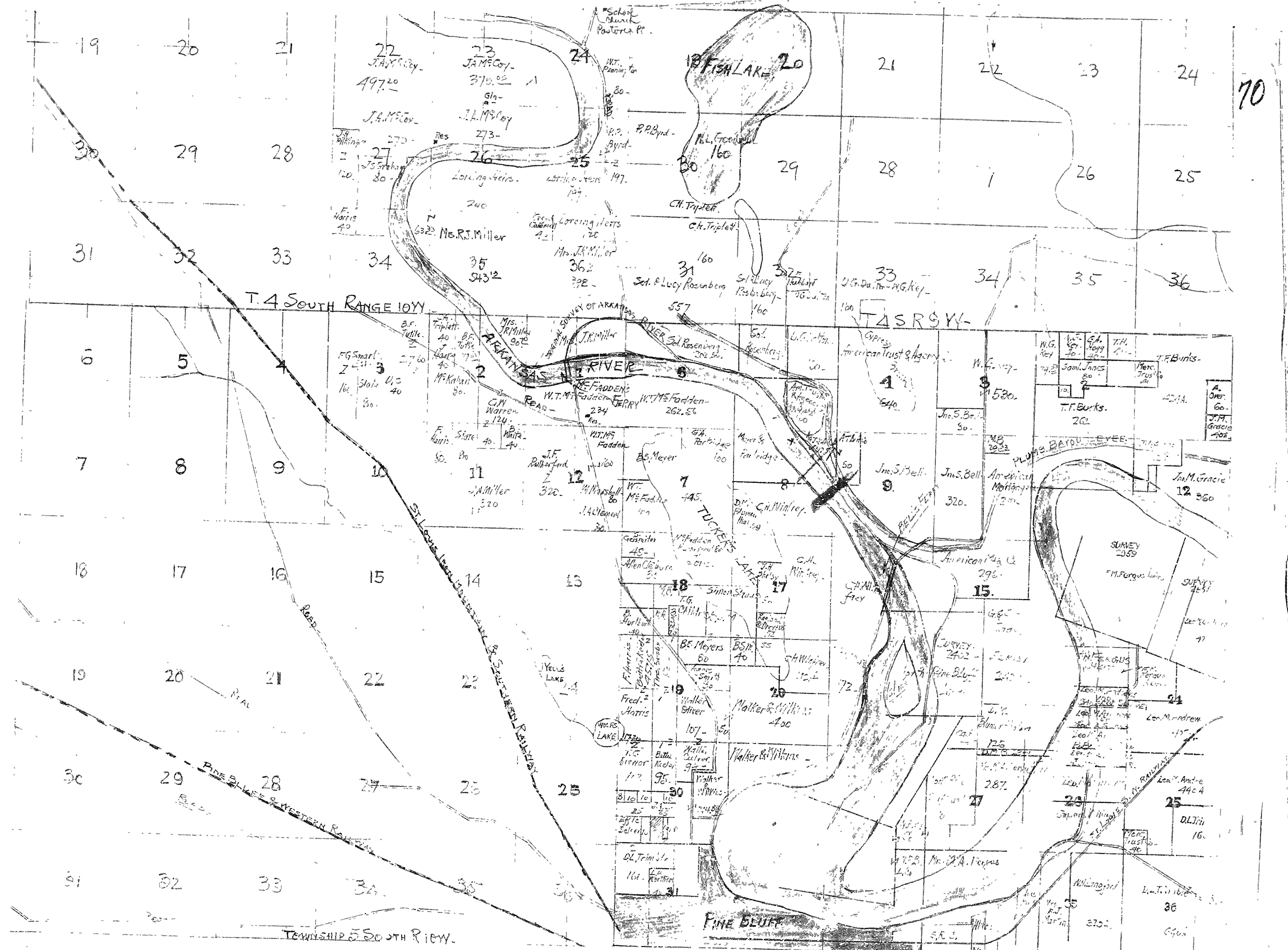
FORMULAE FOR IMPACTS

For Railway Loads, $I = \frac{1.25V}{100}$
 For uniform distributed Roadway Loads, $I = \frac{V}{100}$
 For Motor Truck and Sidewalk, $I = \frac{1.25V}{100}$

	ASSUMED LIVE LOADS				
	Travelling	Trusses	Trusses	Piers	Piers
Steam Ry. Track	Class E60	Class E60	Class E60	Class E60	Class E60
Electric Ry. Track	Class E50	Class E50	Class E50	Class E50	Class E50
Highway	Motor Truck	Motor Truck	Motor Truck	Motor Truck	Motor Truck
Sidewalk	100%	100%	100%	100%	100%

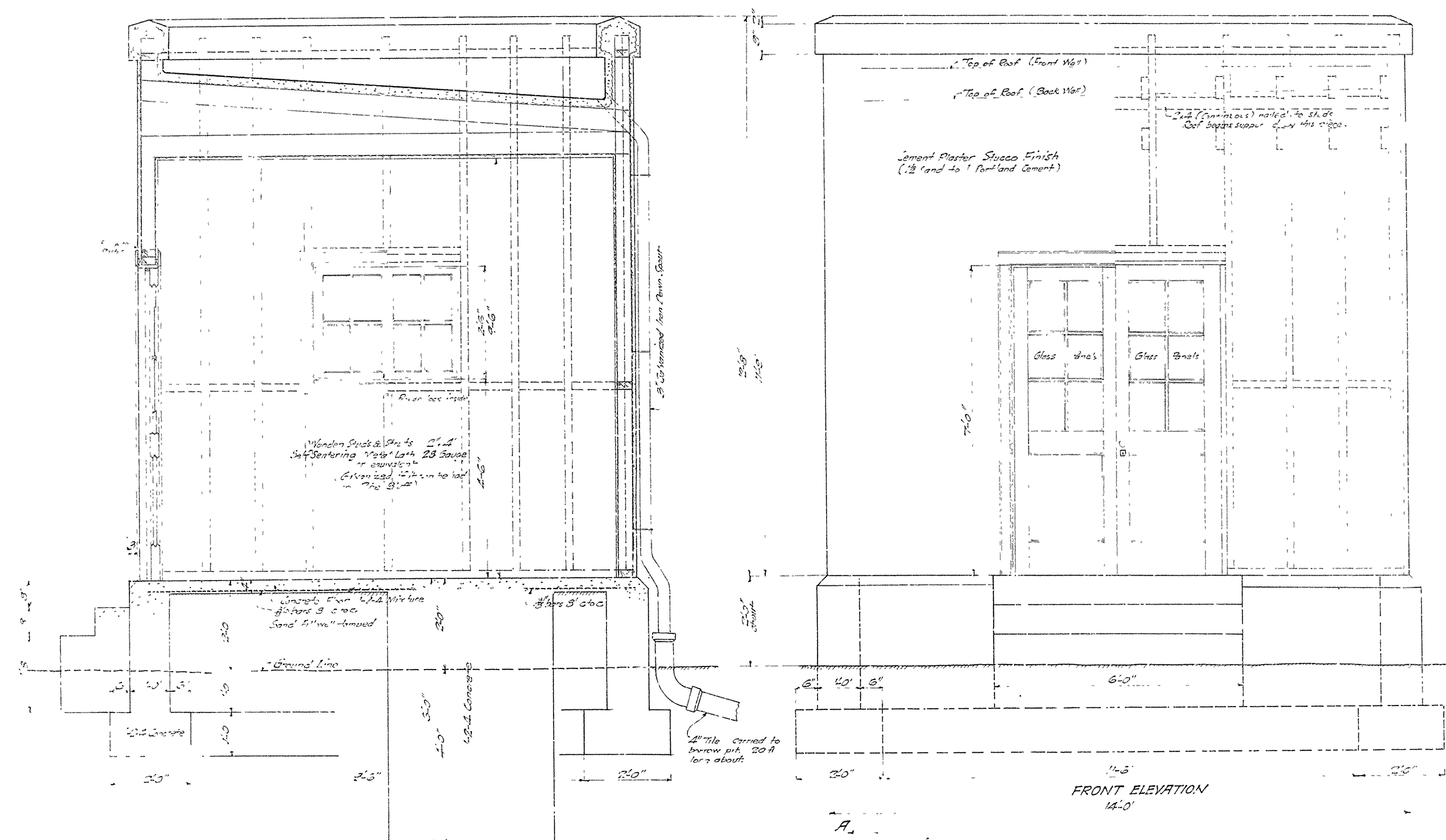
DESIGN FOR PROPOSED BRIDGE
OVER
ARKANSAS RIVER NEAR PINE BLUFF
ELEVATION, CROSS SECTIONS & LIVE LOADS.

Scales as shown
 Made by V.I.C. & W.M. Hedrick & Cochrane,
 Traced by J.M. B-T-11 Consulting Engineers,
 Checked by Kansas City, Mo.



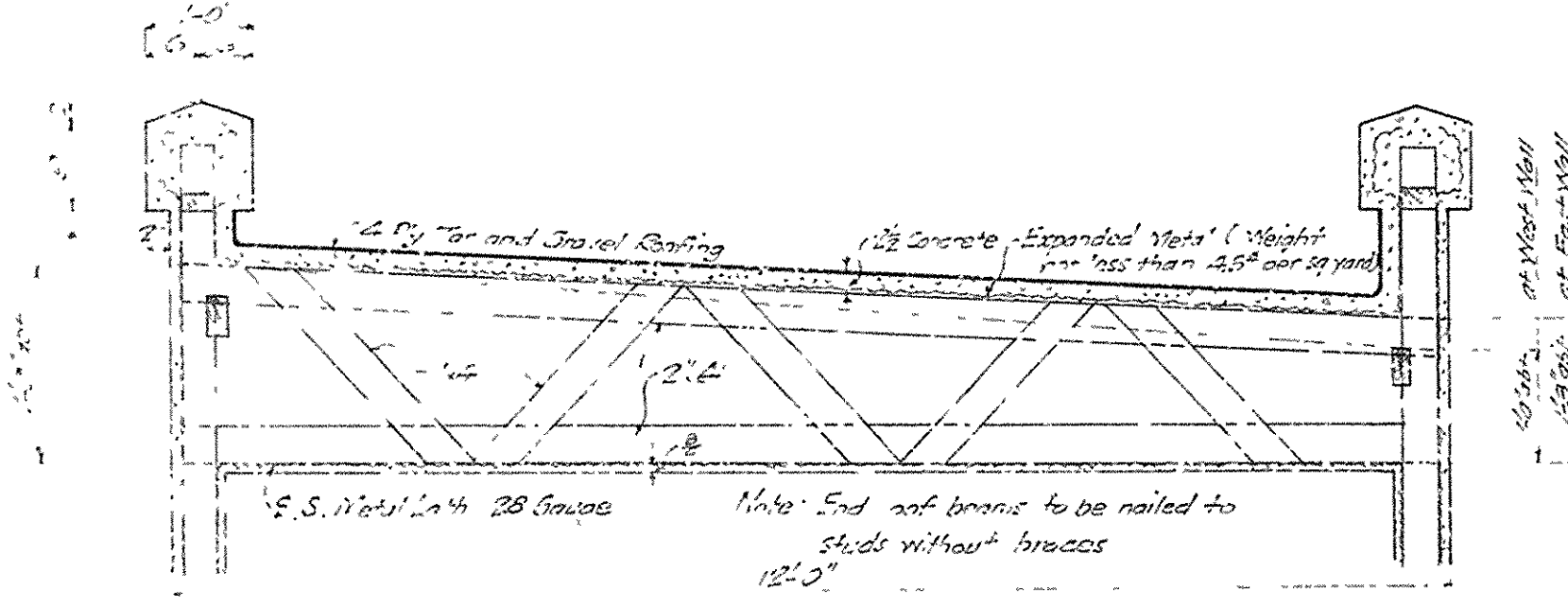
MAP OF ARKANSAS RIVER IN VICINITY OF PINE BLUFF, ARKANSAS. T.58 R.9W. Sheet A

File 76-031
 BR No 2133 DW No 5923

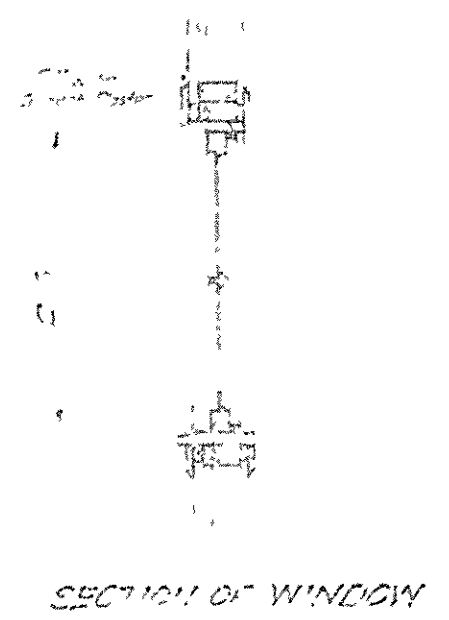


SECTION A-A

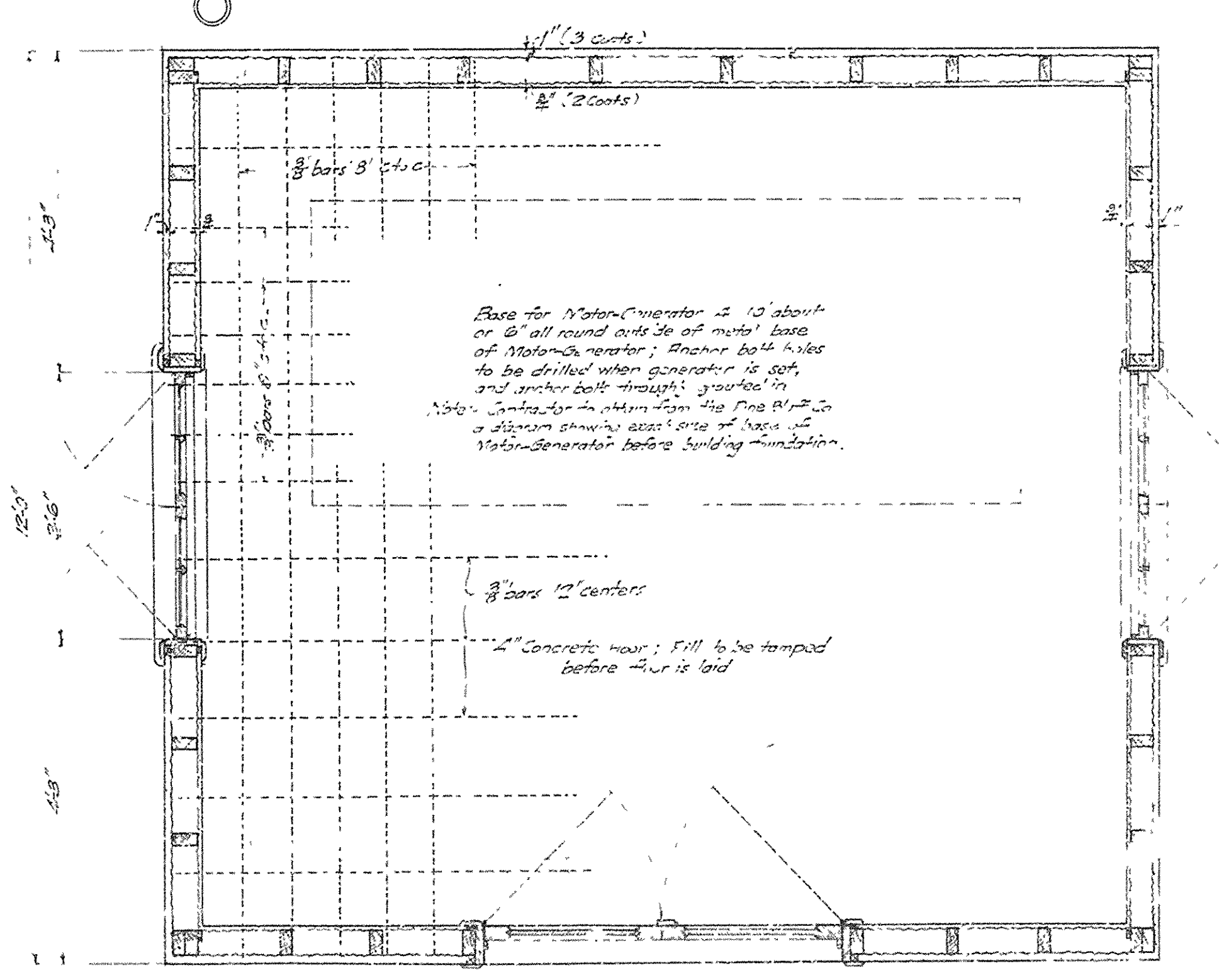
FRONT ELEVATION



DETAILS OF ROOF



SECTION OF WINDOW



BRIDGE OVER ARKANSAS RIVER
NEAR PINE BLUFF, ARKANSAS

HOUSE FOR MOTOR-GENERATOR SET

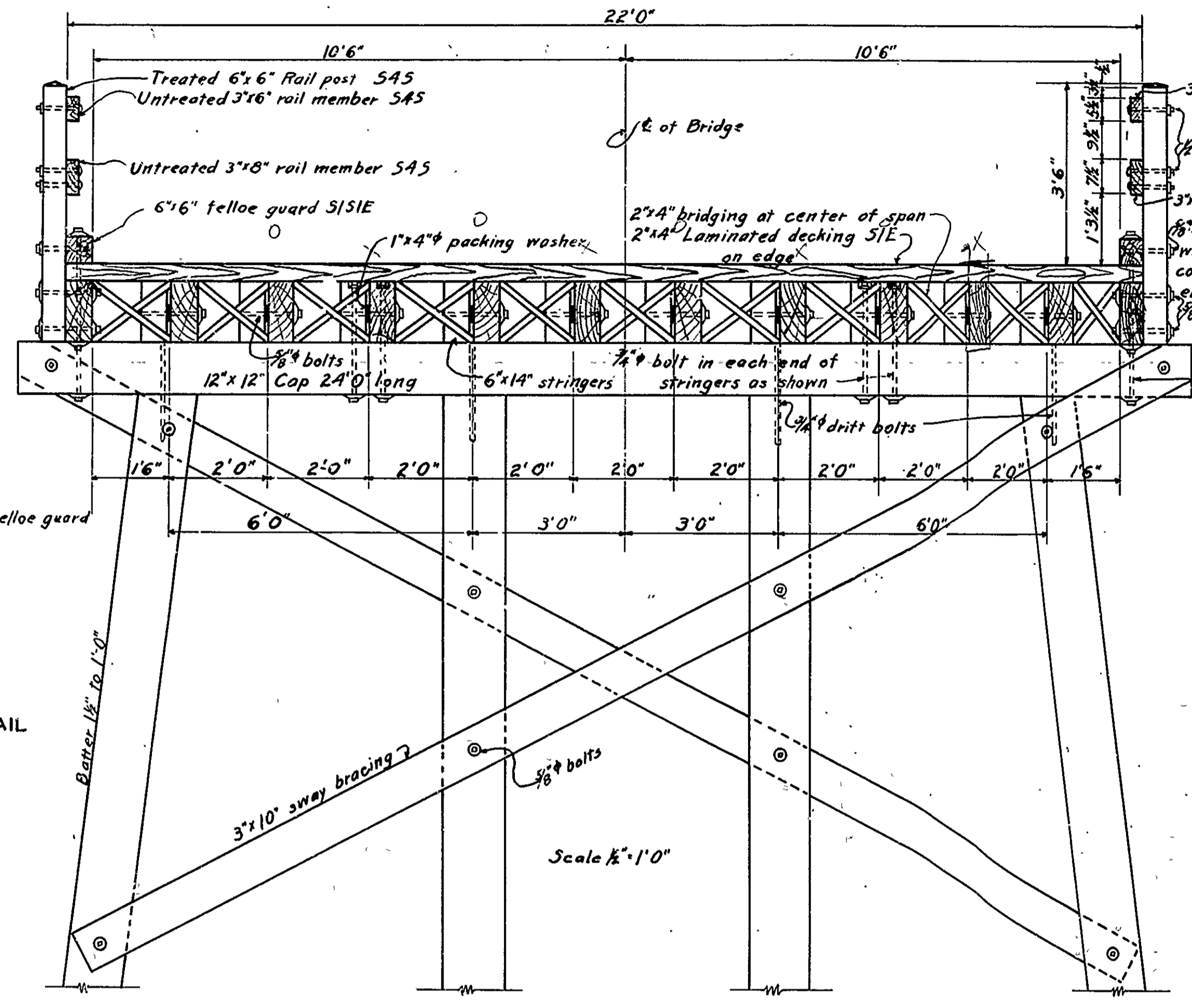
Scale 1/4" = 1'-0"

JEFFERSON COUNTY BRIDGE DISTRICT

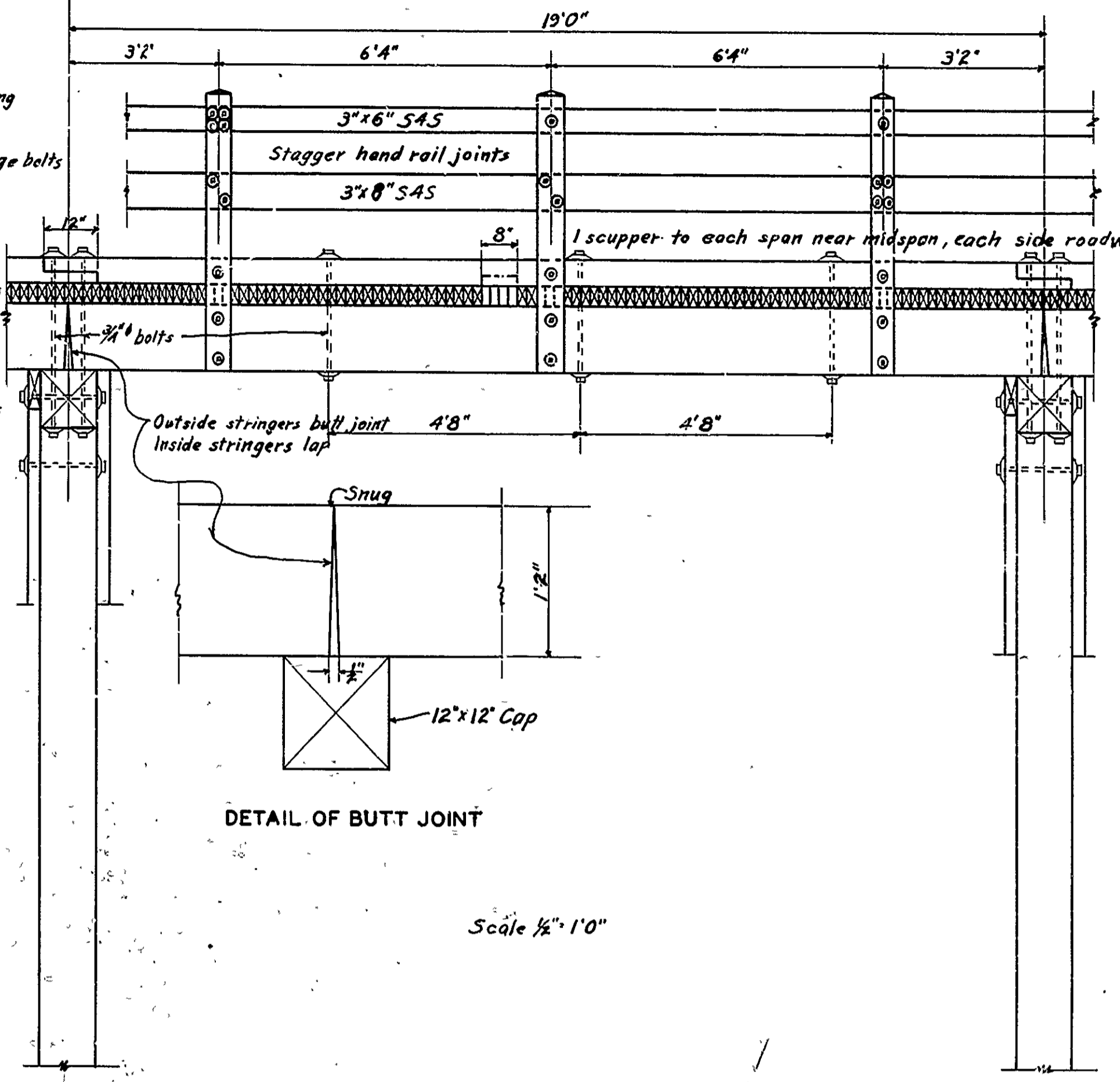
1922
Designed by M. J. ...
Checked by ...

BR. No. 2133 DRWG. No. 5965

FISCAL YEAR:	SHEET NO.:	TOTAL SHEETS:
1925	12	17



CROSS SECTION ROADWAY



ELEVATION

Notes:

Each stringer to be spiked to caps with 4-40d spikes and to be sized at bearing points in field. 2x4 laminated decking S1E. Each piece to be nailed to each adjacent piece once between each stringer with 30d spike. Each piece to be nailed to alternate stringers with 20d spike. Alternate pieces to be nailed to alternate stringers. Ends of decking to be flush under the following conditions:

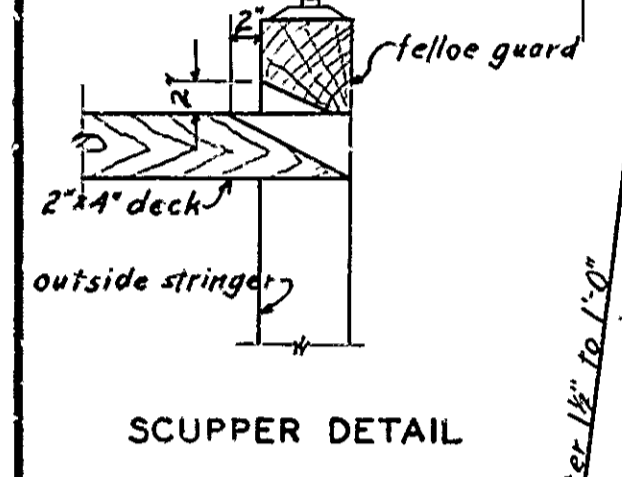
1. Each joint to be made on stringers.
2. Each piece shall cover at least 3 stringers.
3. No more than one joint in any length (lamina).
4. Each joint to be followed by at least 3 full length pieces. Use sway bracing on all bents 5'0" or over in height. Use malleable or cast iron washers on both ends of machine bolts unless noted otherwise.

All timber and piling except 3"x6" and 3"x8" rail members to be treated.

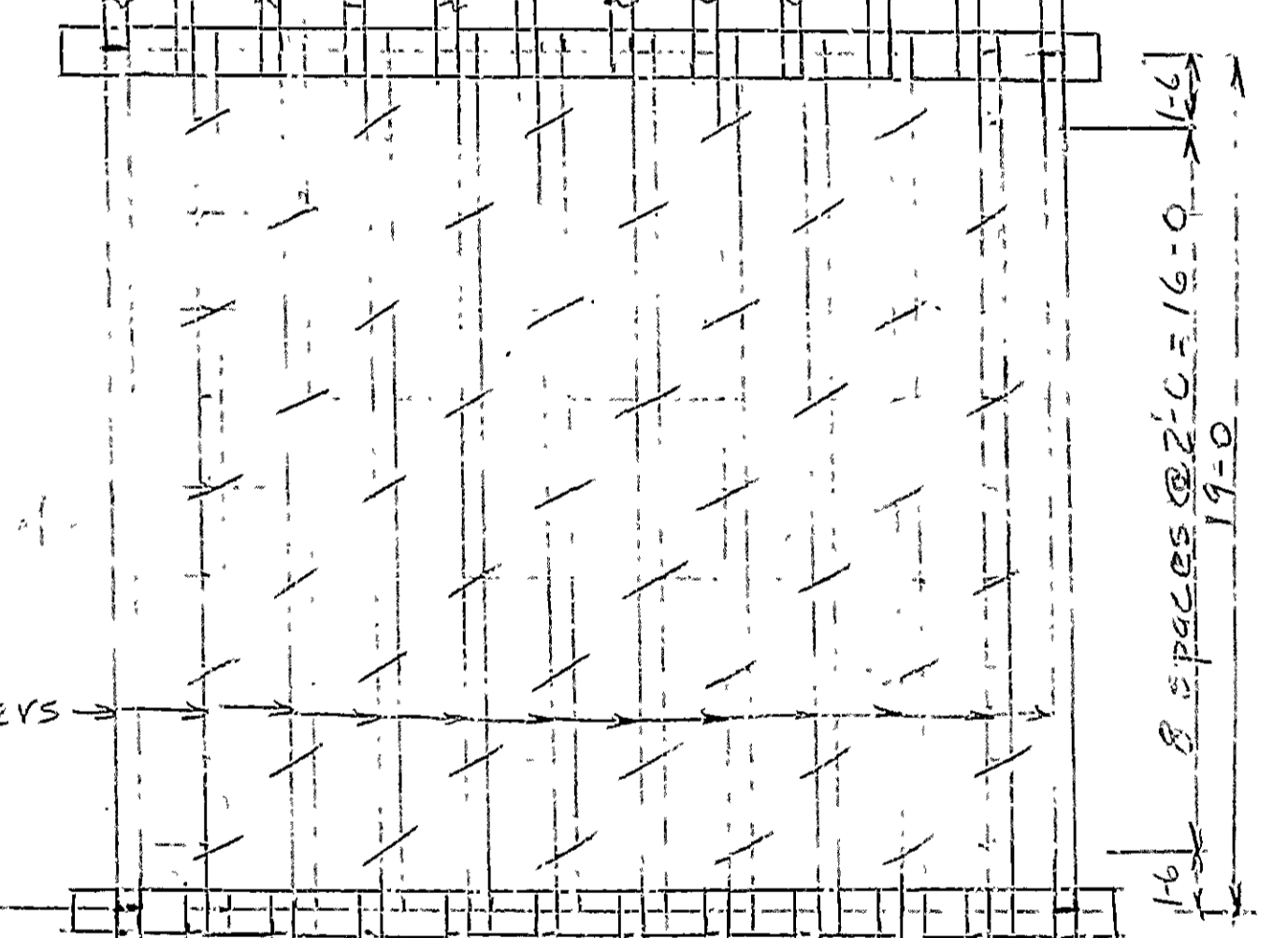
Handrail shall be made of untreated, seasoned, dressed lumber, and shall be painted with 3 coats of paint in accordance with paragraph 523 (c) of Ark. State Standard Specifications.

All treated timber and piling to be treated by empty cell process in accordance with paragraph 522 (d) of Ark. State Standard Specifications.

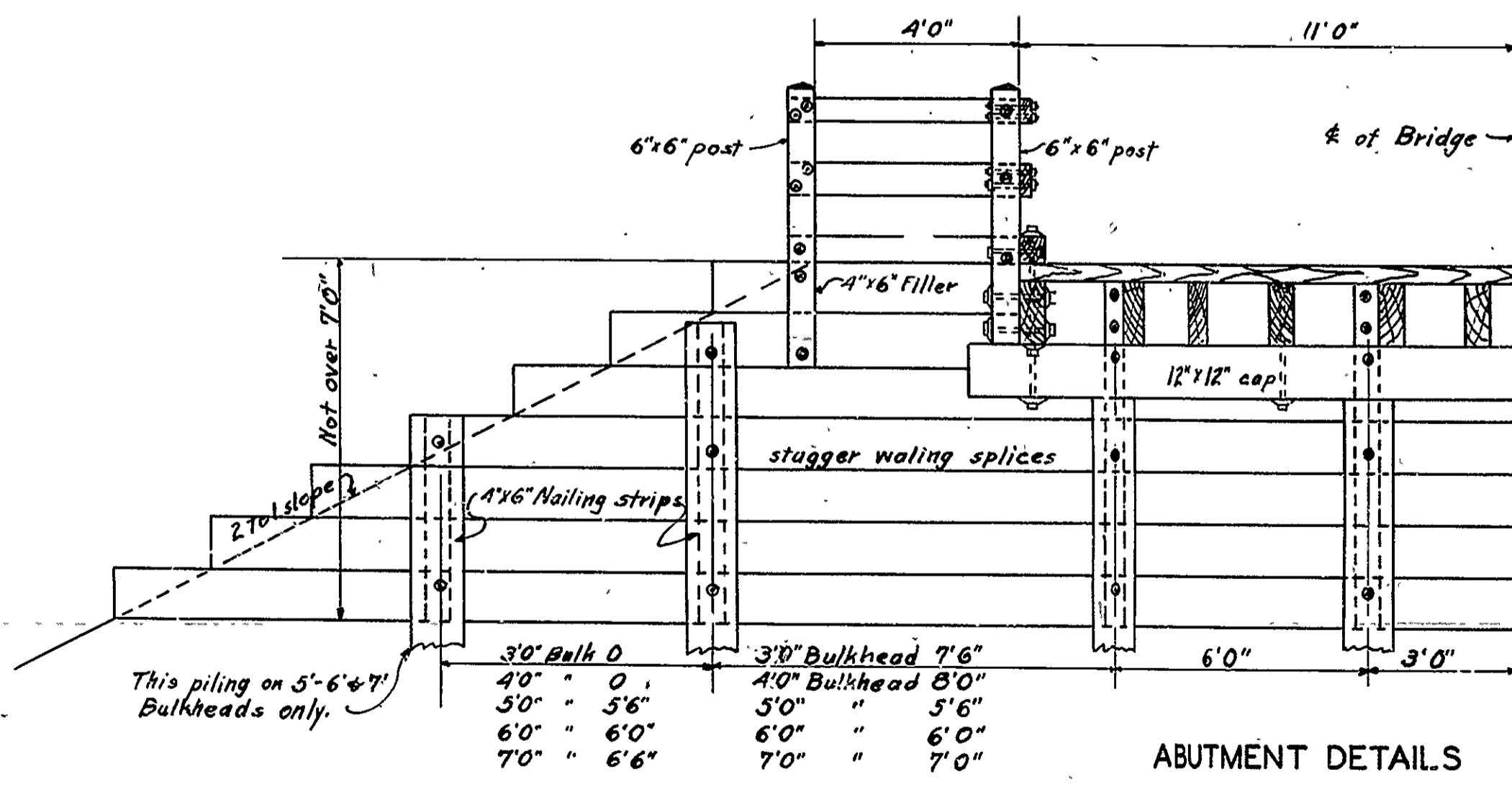
Specifications: Arkansas State Road and Bridge Specifications adopted May 30, 1925.



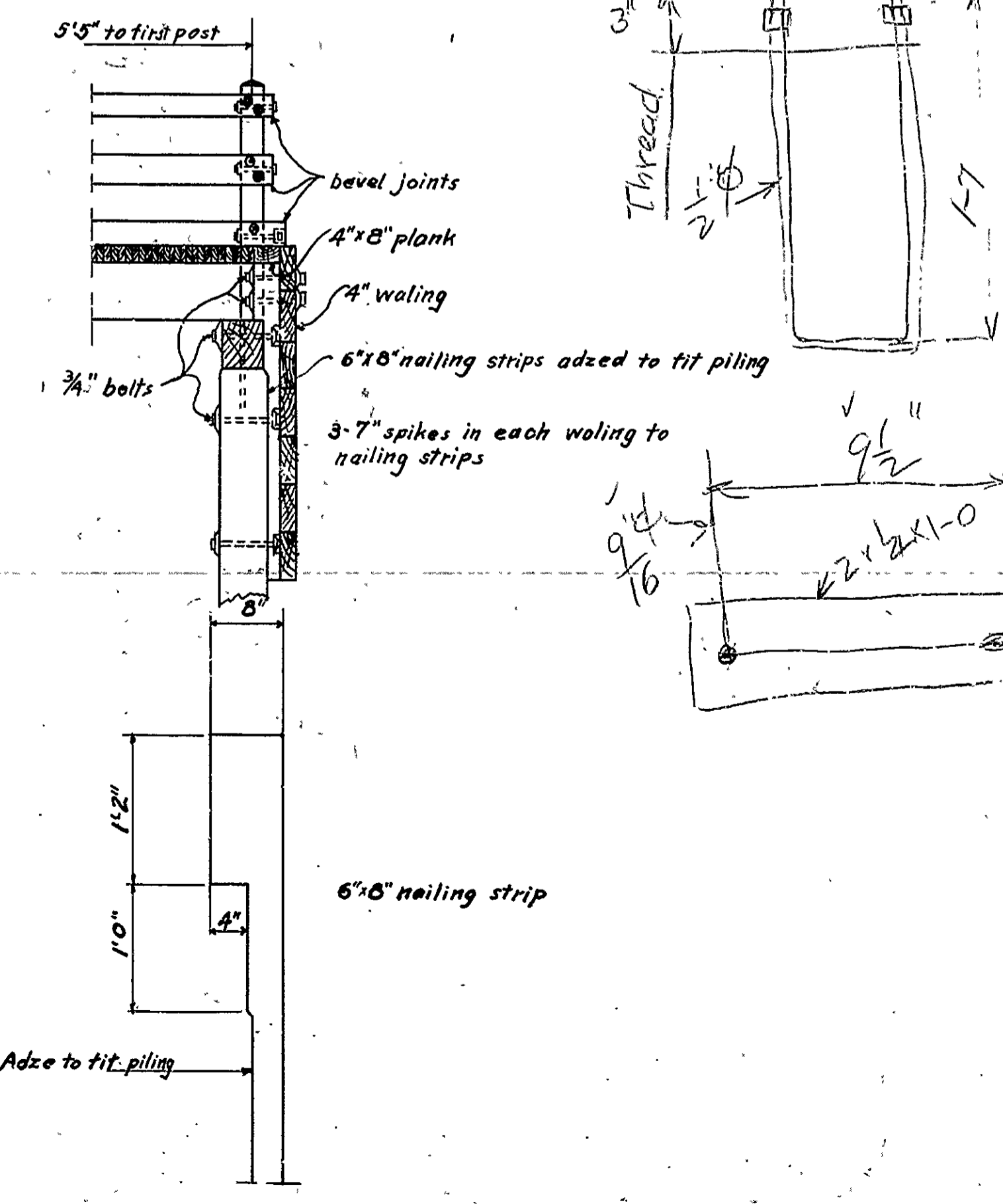
SCUPPER DETAIL



NOTE: MEASUREMENT FOR PAYMENT OF THE 2"x4" LAMINATED DECKING SHALL BE COMPUTED AT 88 (EIGHTY-EIGHT) FT. M. PER LIN. FT. OF BRIDGE. Sketch Showing Location of U-bolts



ABUTMENT DETAILS



DETAILS

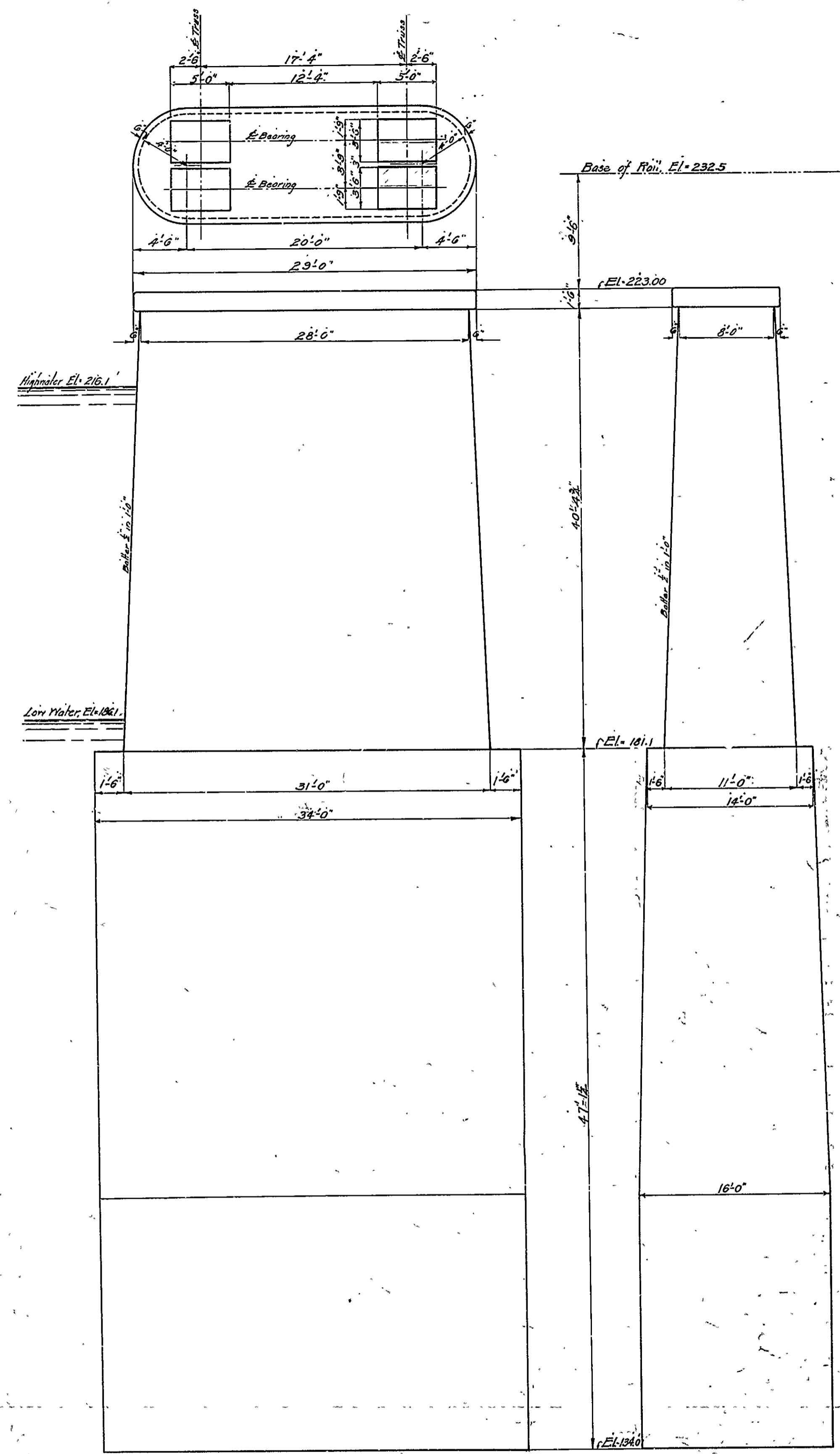
19'0" STANDARD TIMBER TRESTLE
21'0" CLEAR ROADWAY

ROUTE SEC.
ARKANSAS STATE HIGHWAY DEPARTMENT
LITTLE ROCK, ARK.

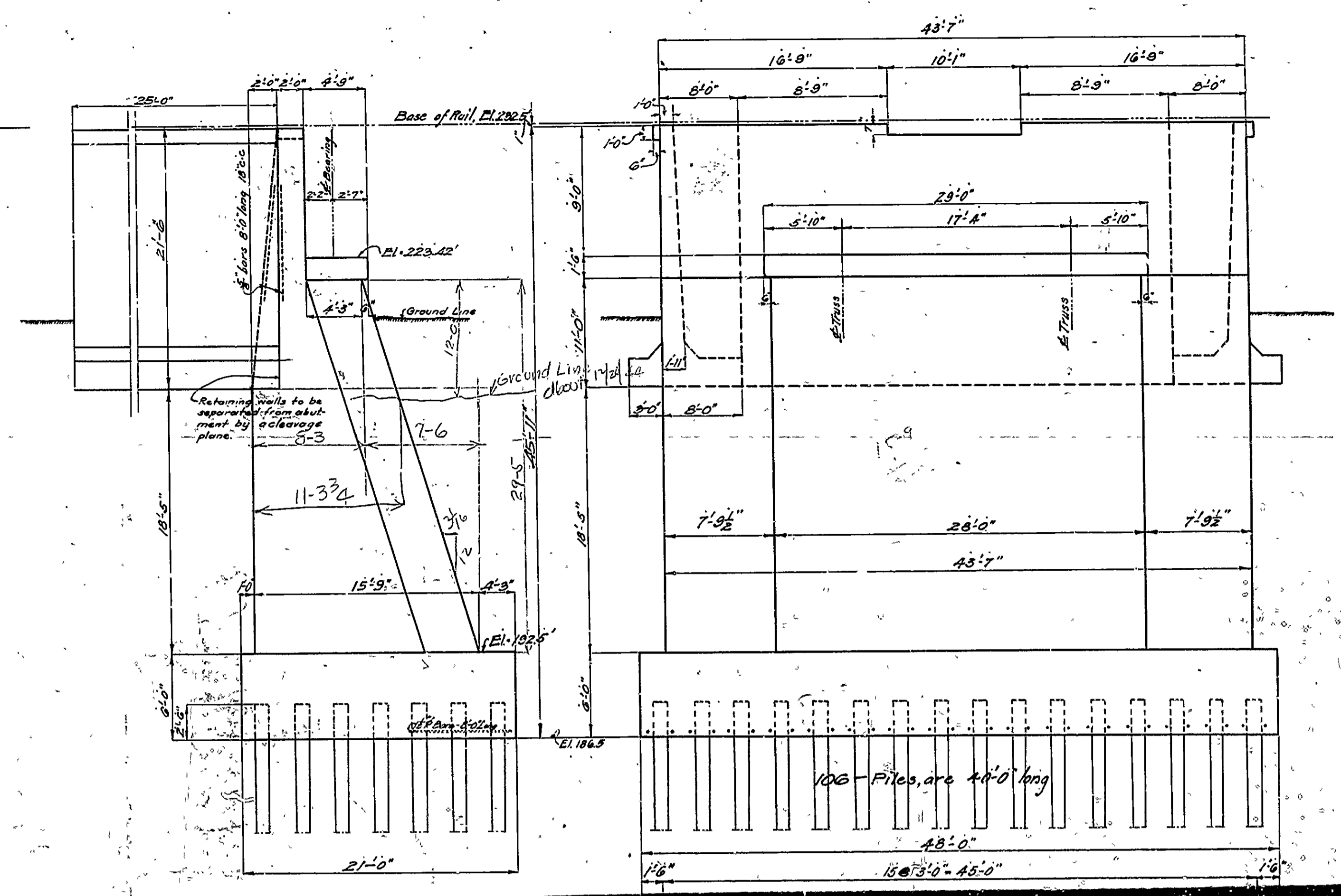
Drawn By: _____ Date: _____
Traced By: *Epa* Date: *4/11/25* Scale: AS NOTED
Checked By: _____ Date: _____
BRIDGE NO. _____ DRAWING NO. 17

Revised 4'0" Bulkhead to 7'0" (Mod)
2-23-24 R.P.D.

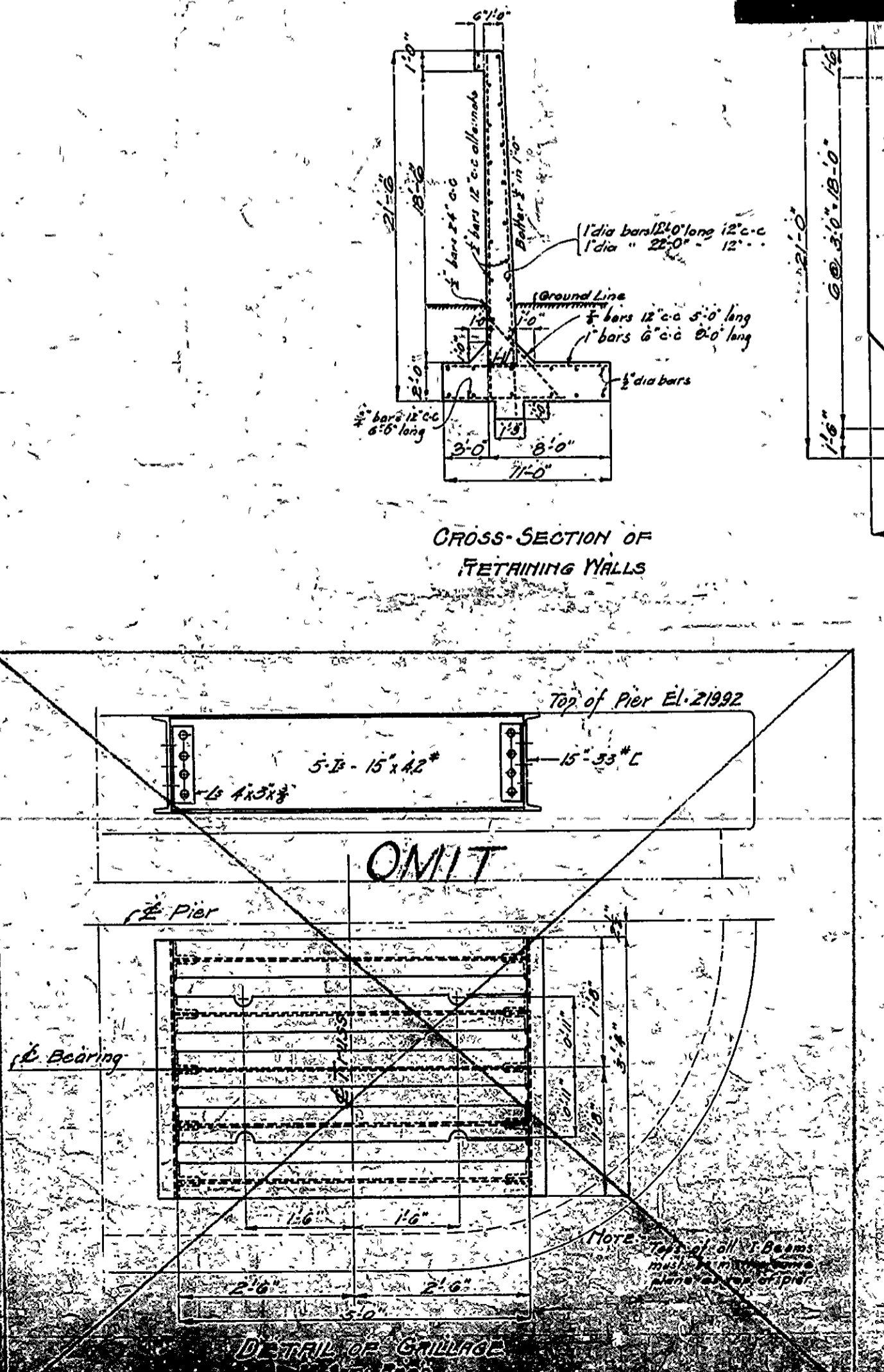
N.B. Lewis
BRIDGE ENGINEER



DETAIL OF PIERS



DETAIL OF ABUTMENT



CROSS-SECTION OF RETAINING WALLS

For Pier/see As built plan Drawing 5966

BRIDGE OVER ARKANSAS RIVER
NEAR PINE BLUFF, ARKANSAS
DETAILS OF SUBSTRUCTURE
Scale 1/4" = 1'-0" except as shown
JEFFERSON COUNTY BRIDGE DISTRICT

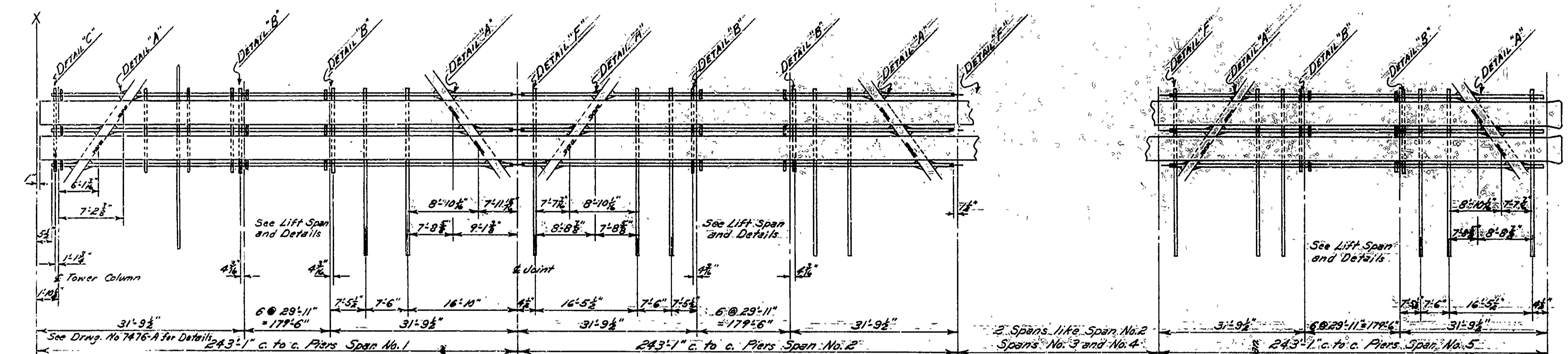
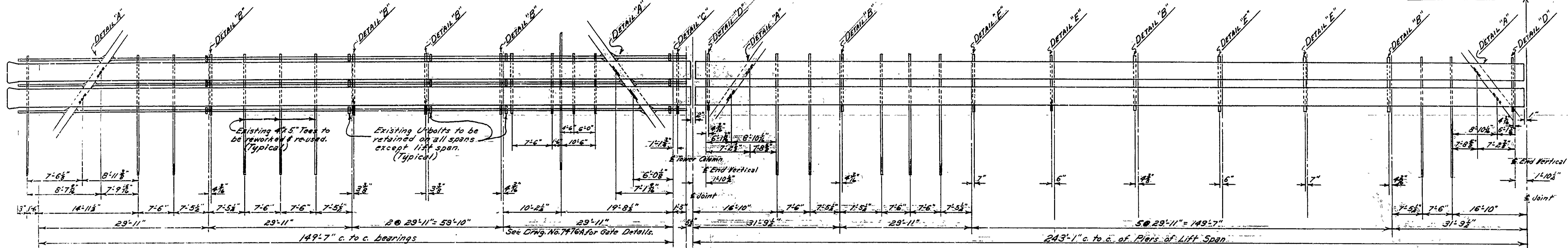
Made By: J.M.S. 6/12
Traced By: W.B. 3-12
Checked By: H.W. 5-12
Reviewed: 1-29-14

Hedrick & Anderson
Consulting Engineers
Kansas City, Mo.

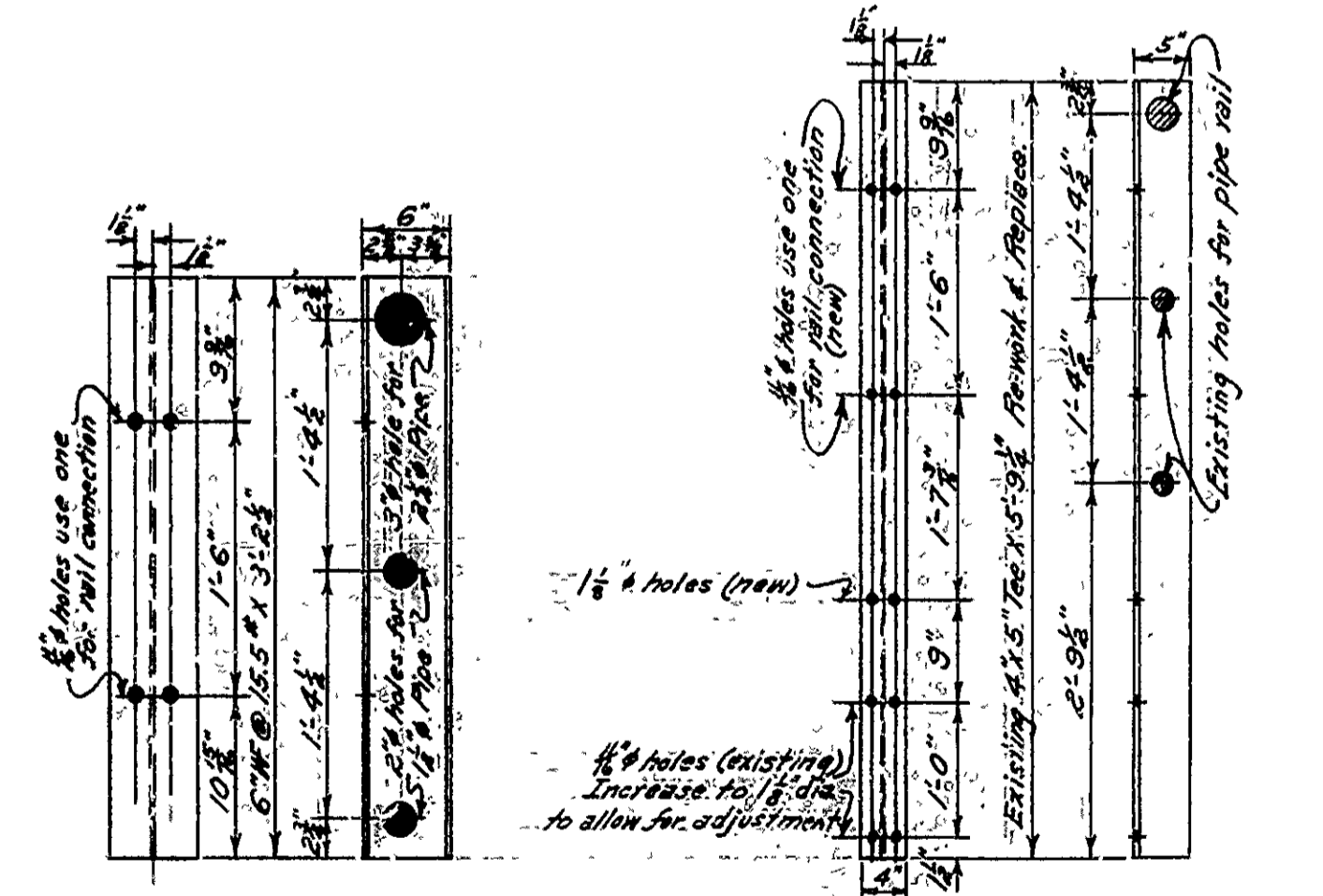
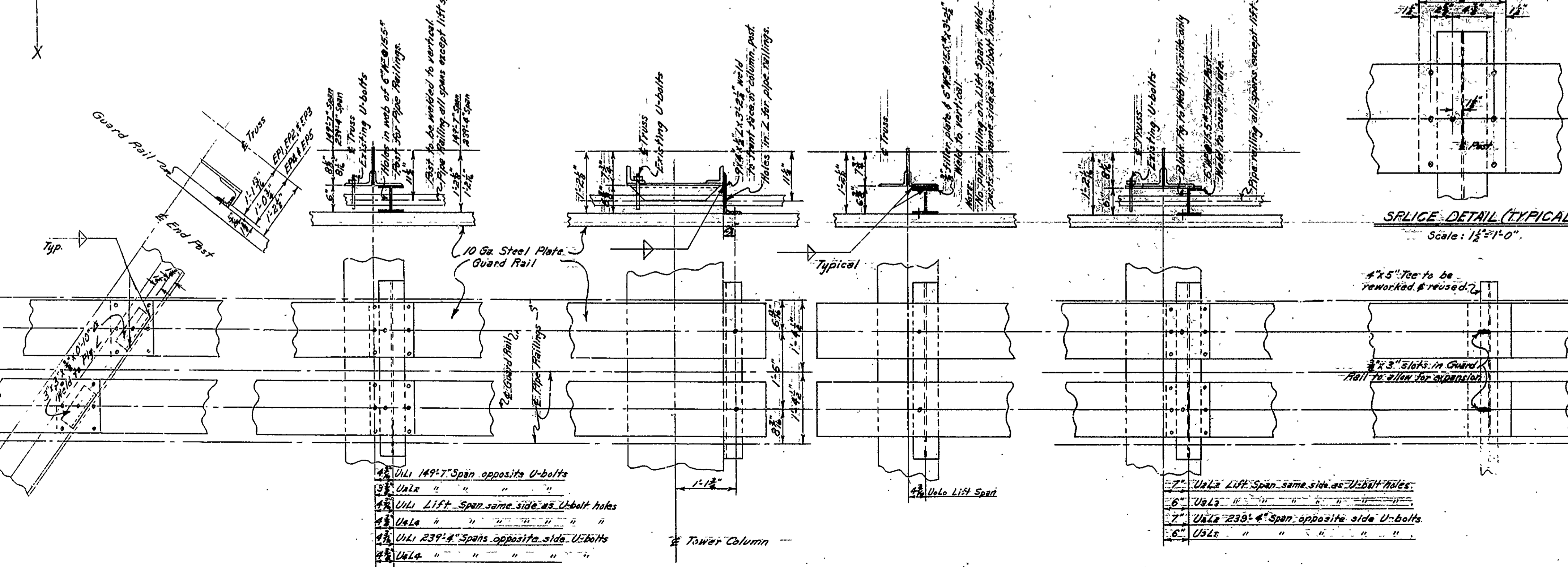
BR No 2133 Draw No 5966 SHEET No 10

FED. ROAD No.	STATE	FED. AID PROJECT	FISCAL YEAR	SHEET No.	TOTAL SHEETS
6	ARK.	F-015-2(9)		8	32
JOB No.			2314		

INSIDE HAND RAILING & GUARD RAIL (NEAR TRUSSES)
No Scale



NOTES
Reconditioned tee posts and pipe railing to be paid for under the item "Remodeling Existing Bridge".
The 6" WF steel posts and angle connectors to be paid for under the item "Structural Steel in Truss Spans".
Steel plate for guard rail to be paid for under the item "Steel Plate for Guard Rail (10 Ga)".
Welded connections to be 3/8" continuous fillet welds unless noted.
See Drawing No. 7474 for General Notes.



DETAIL OF NEW POST (6WF) Scale: 1 1/2" = 1'-0"
 DETAIL OF EXISTING POST Scale: 1 1/2" = 1'-0"
 At all Truss Posts - See Details 'B', 'D', & 'E'

DETAILS OF PIPE RAIL & GUARD RAIL
TRUSS SIDE OF SIDE DRIVES
BRIDGE OVER ARKANSAS RIVER
PINE BLUFF - EAST ROAD
JEFFERSON COUNTY
ROUTE 79 SEC. 10

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

Drawn By: R.M. Date: 3-23-54
 Traced By: Date: _____
 Checked By: JAK Date: 3-25-54
 Scale: 3/4 in. = 1 ft. and as noted.