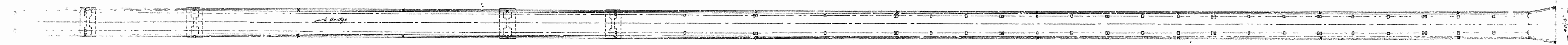
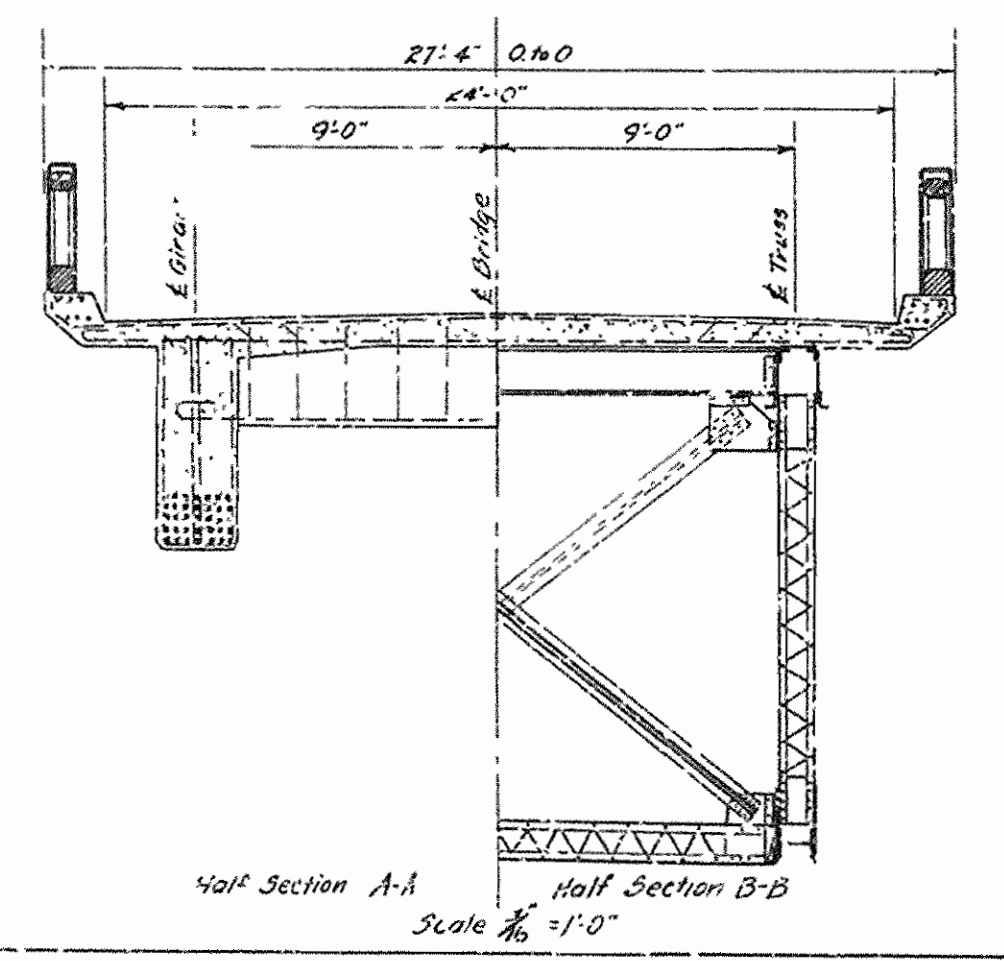


ELEVATION



PLAN



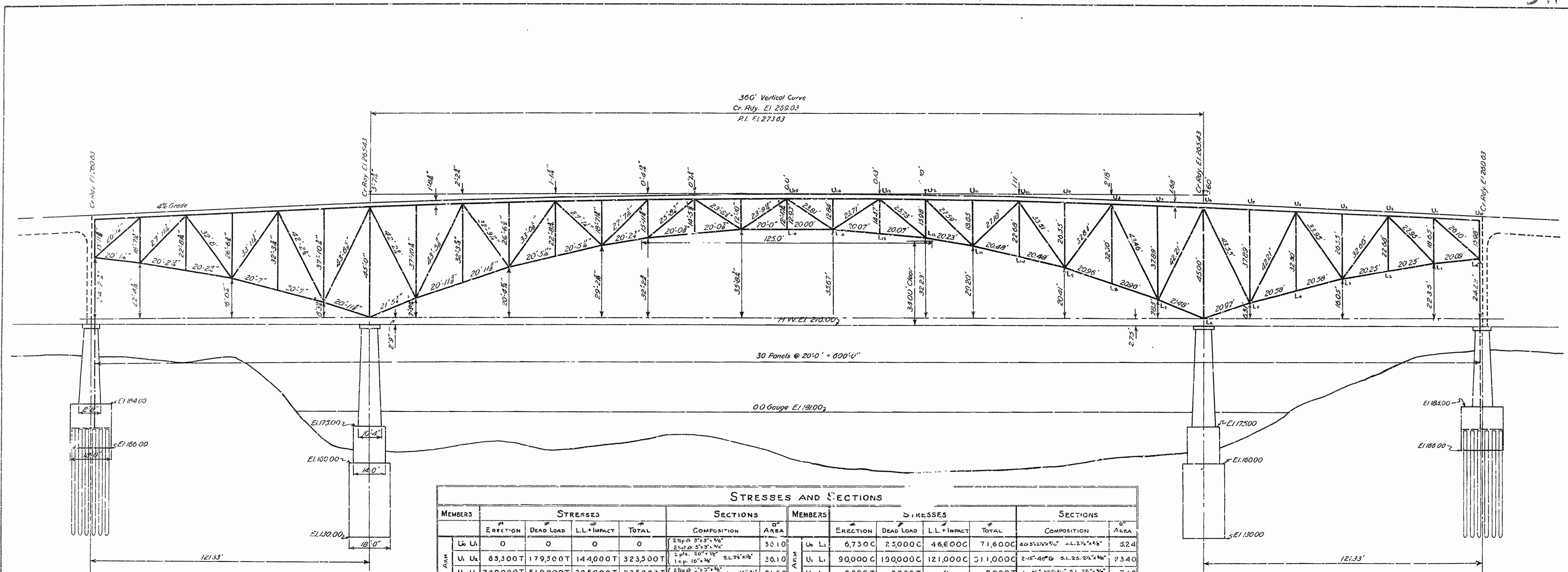
VOID
 ARKANSAS STATE HIGHWAY COMMISSION
 BRIDGE OVER WHITE RIVER
 NEAR
 AUGUSTA, ARKANSAS
GENERAL PLAN & PROFILE

MADE BY HVS
 TRACED BY HVS
 CHECKED BY K.E.
 DATE, Apr 25, 1929 SCALE, As shown SHEET NO. 1

IRA G. HEDRICK INC.
 CONSULTING ENGINEERS
 HOT SPRINGS, ARKANSAS

NOTE -
 Elevation of Top of Caps

| | |
|--------------------------|--------|
| Bents 1 to 13, inclusive | 204.0' |
| Bents 15 to 21, " | 211.0' |
| Bents 22 to 25, " | 211.0' |
| Bents 26 to 30, " | 208.0' |
| Bents 31 to 42, " | 200.0' |



STRESSES AND SECTIONS

| MEMBERS | STRESSES | | | | SECTIONS | MEMBERS | STRESSES | | | | SECTIONS | |
|---------------------------------|-----------|-----------|-----------|-------------|--|---------------------------------|-----------|-----------|-----------|-----------|-----------------------------------|-------|
| | ERECTOR | DEAD LOAD | LL+IMPACT | TOTAL | | | ERECTOR | DEAD LOAD | LL+IMPACT | TOTAL | | |
| U ₁ U ₂ | 0 | 0 | 0 | 0 | 2 top 2 3/4" x 3/8" S.L. 2 1/2" x 3/8" | U ₁ L ₁ | 6,730 C | 2,200 C | 46,600 C | 71,600 C | 40 3/4" x 3/8" S.L. 2 1/2" x 3/8" | 52.4 |
| U ₂ U ₃ | 85,300 T | 179,500 T | 144,000 T | 328,800 T | 1 top 2 3/4" x 3/8" S.L. 2 1/2" x 3/8" | U ₂ L ₂ | 9,000 C | 19,000 C | 121,000 C | 311,000 C | 2 1/2" x 3/8" S.L. 2 1/2" x 3/8" | 73.40 |
| U ₃ U ₄ | 242,000 T | 510,000 T | 325,000 T | 835,000 T | 1 top 2 3/4" x 3/8" S.L. 2 1/2" x 3/8" | U ₃ L ₃ | 8,800 C | 9,000 C | 0 | 9,000 C | 4 1/2" x 3/8" S.L. 2 1/2" x 3/8" | 7.12 |
| U ₄ U ₅ | 242,000 T | 510,000 T | 325,000 T | 835,000 T | 2 top 2 3/4" x 3/8" S.L. 2 1/2" x 3/8" | U ₄ L ₄ | 17,600 C | 54,000 C | 46,600 C | 100,600 C | 2 1/2" x 3/8" S.L. 2 1/2" x 3/8" | 14.64 |
| U ₅ U ₆ | 358,000 T | 769,000 T | 384,000 T | 1,153,000 T | 2 top 2 3/4" x 3/8" S.L. 2 1/2" x 3/8" | U ₅ L ₅ | 12,800 T | 12,000 T | 0 | 12,000 T | 40 3/4" x 3/8" S.L. 2 1/2" x 3/8" | 7.12 |
| U ₆ U ₇ | 358,000 T | 769,000 T | 384,000 T | 1,153,000 T | 4 top 2 3/4" x 3/8" S.L. 2 1/2" x 3/8" | U ₆ L ₆ | 25,000 C | 62,000 C | 46,600 C | 108,600 C | 2 1/2" x 3/8" S.L. 2 1/2" x 3/8" | 14.64 |
| U ₇ U ₈ | 376,000 T | 774,000 T | 352,000 T | 1,125,000 T | 2 top 2 3/4" x 3/8" S.L. 2 1/2" x 3/8" | U ₇ L ₇ | 186,500 C | 428,000 C | 154,000 C | 582,000 C | 40 3/4" x 3/8" S.L. 2 1/2" x 3/8" | 56.76 |
| U ₈ U ₉ | 376,000 T | 774,000 T | 352,000 T | 1,125,000 T | 2 top 2 3/4" x 3/8" S.L. 2 1/2" x 3/8" | U ₈ L ₈ | 21,000 C | 58,000 C | 46,600 C | 104,600 C | 2 1/2" x 3/8" S.L. 2 1/2" x 3/8" | 14.64 |
| U ₉ U ₁₀ | 303,000 T | 532,000 T | 247,000 T | 779,000 T | 2 top 2 3/4" x 3/8" S.L. 2 1/2" x 3/8" | U ₉ L ₉ | 10,000 T | 10,000 T | 0 | 10,000 T | 40 3/4" x 3/8" S.L. 2 1/2" x 3/8" | 7.12 |
| U ₁₀ U ₁₁ | 303,000 T | 532,000 T | 247,000 T | 779,000 T | 2 top 2 3/4" x 3/8" S.L. 2 1/2" x 3/8" | U ₁₀ L ₁₀ | 14,800 C | 51,000 C | 46,600 C | 97,600 C | 2 1/2" x 3/8" S.L. 2 1/2" x 3/8" | 14.64 |
| U ₁₁ U ₁₂ | 197,000 T | 194,000 T | 91,000 T | 285,000 T | 2 top 2 3/4" x 3/8" S.L. 2 1/2" x 3/8" | U ₁₁ L ₁₁ | 7,000 T | 7,500 T | 0 | 7,500 T | 40 3/4" x 3/8" S.L. 2 1/2" x 3/8" | 7.12 |
| U ₁₂ U ₁₃ | 197,000 T | 194,000 T | 91,000 T | 285,000 T | 2 top 2 3/4" x 3/8" S.L. 2 1/2" x 3/8" | U ₁₂ L ₁₂ | 11,000 C | 48,000 C | 46,600 C | 94,600 C | 2 1/2" x 3/8" S.L. 2 1/2" x 3/8" | 14.64 |
| U ₁₃ U ₁₄ | 125,000 T | 0 | 0 | 125,000 T | 1 1/2" x 3/8" S.L. 2 1/2" x 3/8" | U ₁₃ L ₁₃ | 48,800 T | 138,000 T | 72,000 T | 210,000 T | 2 1/2" x 3/8" S.L. 2 1/2" x 3/8" | 20.46 |
| U ₁₄ U ₁₅ | 19,200 T | 287,000 C | 149,800 C | 476,800 C | 2 top 2 3/4" x 3/8" S.L. 2 1/2" x 3/8" | U ₁₄ L ₁₄ | 5,000 T | 5,000 T | 0 | 5,000 T | 40 3/4" x 3/8" S.L. 2 1/2" x 3/8" | 6.48 |
| U ₁₅ U ₁₆ | 19,200 T | 287,000 C | 149,800 C | 476,800 C | 2 top 2 3/4" x 3/8" S.L. 2 1/2" x 3/8" | U ₁₅ L ₁₅ | 12,500 C | 41,000 C | 46,800 C | 87,800 C | 40 3/4" x 3/8" S.L. 2 1/2" x 3/8" | 8.44 |
| L ₁ L ₂ | 86,000 C | 180,000 C | 155,000 C | 335,000 C | 2 top 2 3/4" x 3/8" S.L. 2 1/2" x 3/8" | U ₁₆ L ₁₆ | 5,000 C | 5,000 C | 0 | 5,000 C | 40 3/4" x 3/8" S.L. 2 1/2" x 3/8" | 6.48 |
| L ₂ L ₃ | 170,000 C | 350,000 C | 257,000 C | 607,000 C | 2 top 2 3/4" x 3/8" S.L. 2 1/2" x 3/8" | U ₁₇ L ₁₇ | 118,000 T | 231,000 T | 200,000 T | 431,000 T | 40 3/4" x 3/8" S.L. 2 1/2" x 3/8" | 32.37 |
| L ₃ L ₄ | 170,000 C | 350,000 C | 257,000 C | 607,000 C | 2 top 2 3/4" x 3/8" S.L. 2 1/2" x 3/8" | U ₁₈ L ₁₈ | 114,000 T | 222,000 T | 140,000 T | 372,000 T | 40 3/4" x 3/8" S.L. 2 1/2" x 3/8" | 28.00 |
| L ₄ L ₅ | 308,000 C | 655,000 C | 368,000 C | 1,023,000 C | 40 3/4" x 3/8" S.L. 2 1/2" x 3/8" | U ₁₉ L ₁₉ | 121,000 C | 263,000 C | 132,000 C | 397,000 C | 40 3/4" x 3/8" S.L. 2 1/2" x 3/8" | 35.00 |
| L ₅ L ₆ | 308,000 C | 655,000 C | 368,000 C | 1,023,000 C | 40 3/4" x 3/8" S.L. 2 1/2" x 3/8" | U ₂₀ L ₂₀ | 87,900 T | 219,000 T | 117,100 T | 336,100 T | 40 3/4" x 3/8" S.L. 2 1/2" x 3/8" | 24.50 |
| L ₆ L ₇ | 424,500 C | 903,000 C | 424,500 C | 1,327,500 C | 40 3/4" x 3/8" S.L. 2 1/2" x 3/8" | U ₂₁ L ₂₁ | 121,500 C | 270,000 C | 134,000 C | 404,000 C | 40 3/4" x 3/8" S.L. 2 1/2" x 3/8" | 35.72 |
| L ₇ L ₈ | 436,500 C | 927,000 C | 436,500 C | 1,353,500 C | 6 top 2 3/4" x 3/8" S.L. 2 1/2" x 3/8" | U ₂₂ L ₂₂ | 103,000 T | 198,000 T | 73,000 T | 273,300 T | 40 3/4" x 3/8" S.L. 2 1/2" x 3/8" | 20.68 |
| L ₈ L ₉ | 353,800 C | 684,000 C | 314,000 C | 993,000 C | 6 top 2 3/4" x 3/8" S.L. 2 1/2" x 3/8" | U ₂₃ L ₂₃ | 61,000 T | 187,000 T | 73,000 T | 260,000 T | 40 3/4" x 3/8" S.L. 2 1/2" x 3/8" | 19.81 |
| L ₉ L ₁₀ | 353,800 C | 684,000 C | 314,000 C | 993,000 C | 2 top 2 3/4" x 3/8" S.L. 2 1/2" x 3/8" | U ₂₄ L ₂₄ | 84,300 C | 262,000 C | 112,000 C | 374,000 C | 40 3/4" x 3/8" S.L. 2 1/2" x 3/8" | 35.00 |
| L ₁₀ L ₁₁ | 225,600 C | 371,000 C | 174,000 C | 545,000 C | 40 3/4" x 3/8" S.L. 2 1/2" x 3/8" | U ₂₅ L ₂₅ | 54,000 T | 195,000 T | 87,000 T | 282,000 T | 40 3/4" x 3/8" S.L. 2 1/2" x 3/8" | 21.13 |
| L ₁₁ L ₁₂ | 225,600 C | 371,000 C | 174,000 C | 545,000 C | 40 3/4" x 3/8" S.L. 2 1/2" x 3/8" | U ₂₆ L ₂₆ | 90,000 C | 230,000 C | 123,000 C | 409,000 C | 40 3/4" x 3/8" S.L. 2 1/2" x 3/8" | 35.00 |
| L ₁₂ L ₁₃ | 129,000 C | 0 | 0 | 129,000 C | 40 3/4" x 3/8" S.L. 2 1/2" x 3/8" | U ₂₇ L ₂₇ | 71,500 T | 230,000 T | 108,000 T | 338,000 T | 40 3/4" x 3/8" S.L. 2 1/2" x 3/8" | 35.00 |
| L ₁₃ L ₁₄ | 54,000 C | 159,500 T | 86,800 T | 246,300 T | 40 3/4" x 3/8" S.L. 2 1/2" x 3/8" | U ₂₈ L ₂₈ | 8,000 C | 26,500 C | 125,500 C | 390,500 C | 2 1/2" x 3/8" S.L. 2 1/2" x 3/8" | 34.80 |
| L ₁₄ L ₁₅ | 54,000 C | 159,500 T | 86,800 T | 246,300 T | 40 3/4" x 3/8" S.L. 2 1/2" x 3/8" | U ₂₉ L ₂₉ | 91,300 C | 205,000 C | 109,700 C | 313,700 C | 2 1/2" x 3/8" S.L. 2 1/2" x 3/8" | 26.34 |
| L ₁₅ L ₁₆ | 0 | 320,000 T | 167,000 T | 487,000 T | 2 top 2 3/4" x 3/8" S.L. 2 1/2" x 3/8" | U ₃₀ L ₃₀ | 95,454 T | 132,000 T | 83,400 T | 235,400 T | 40 3/4" x 3/8" S.L. 2 1/2" x 3/8" | 19.21 |
| | | | | | | U ₃₁ L ₃₁ | 23,800 C | 39,000 C | 43,600 C | 82,600 C | 40 3/4" x 3/8" S.L. 2 1/2" x 3/8" | 11.48 |

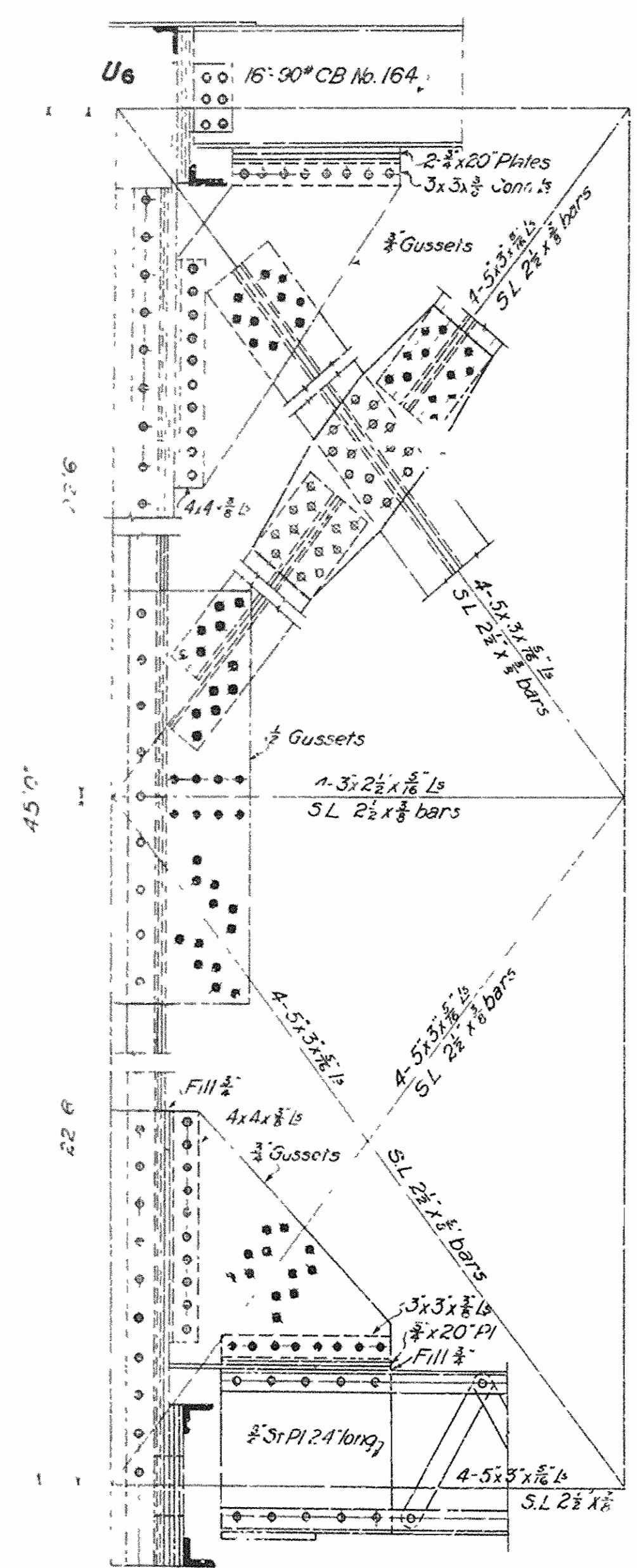
Note: Lengths of members given does not include camber additions

VOID

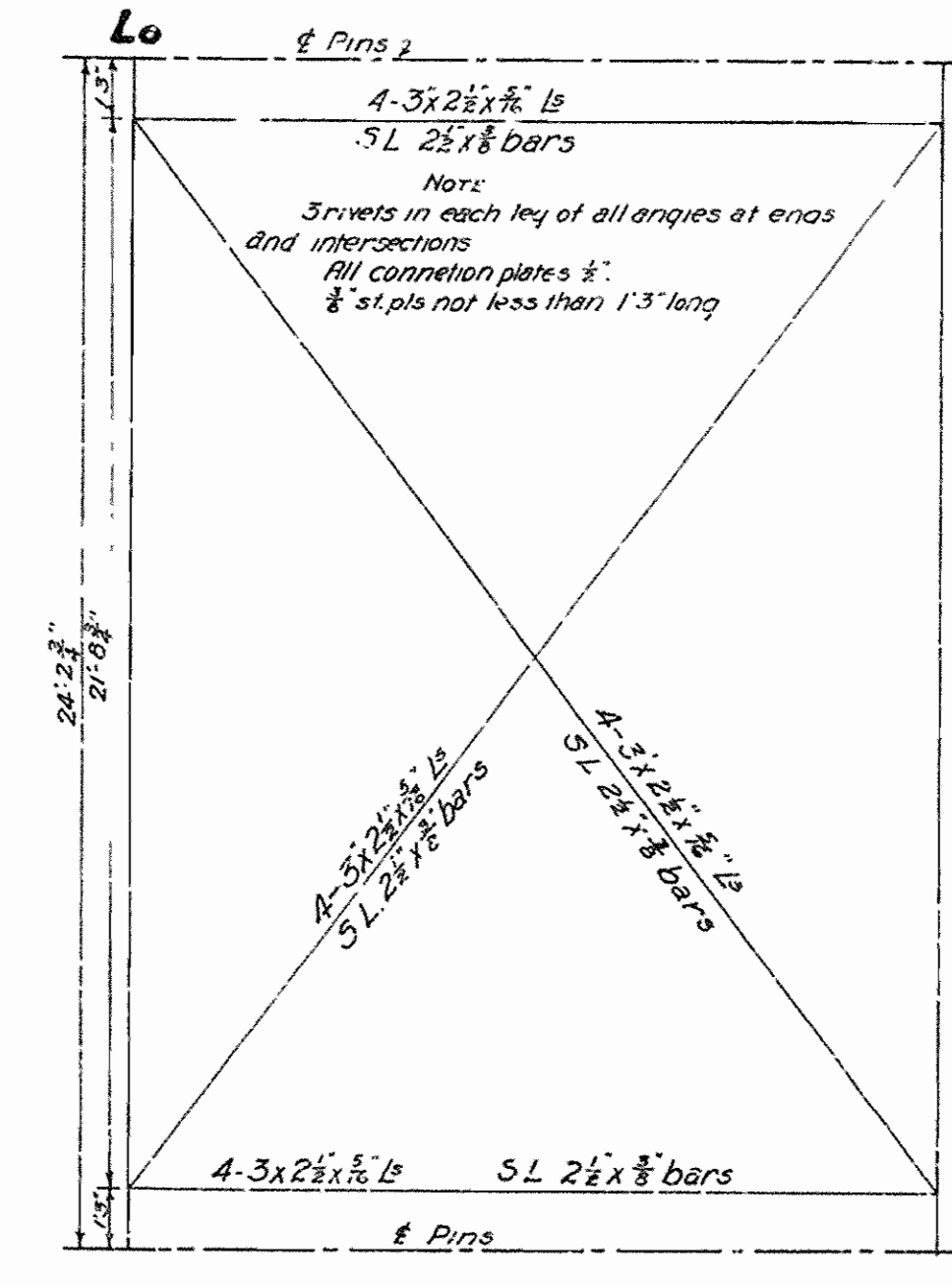
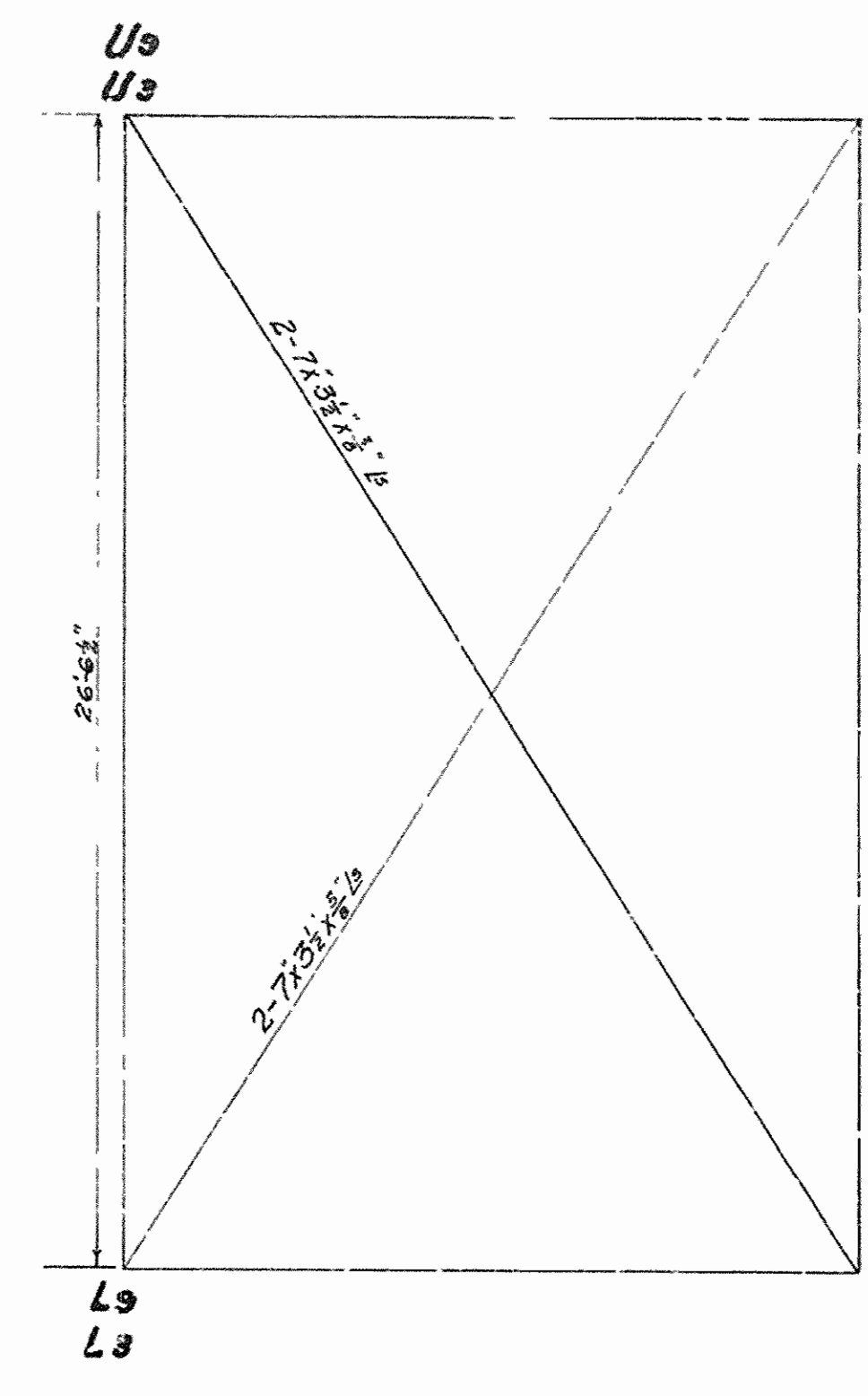
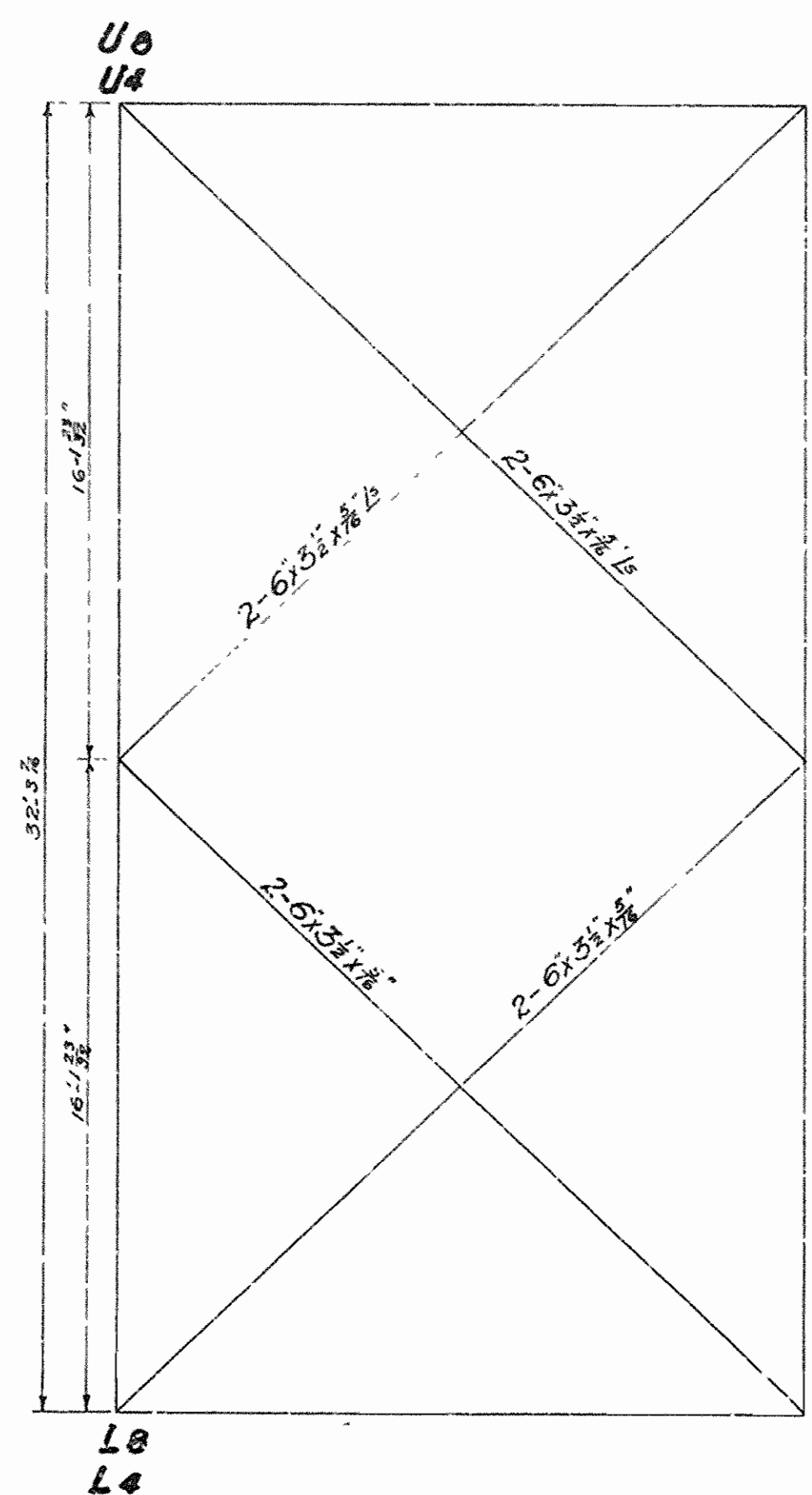
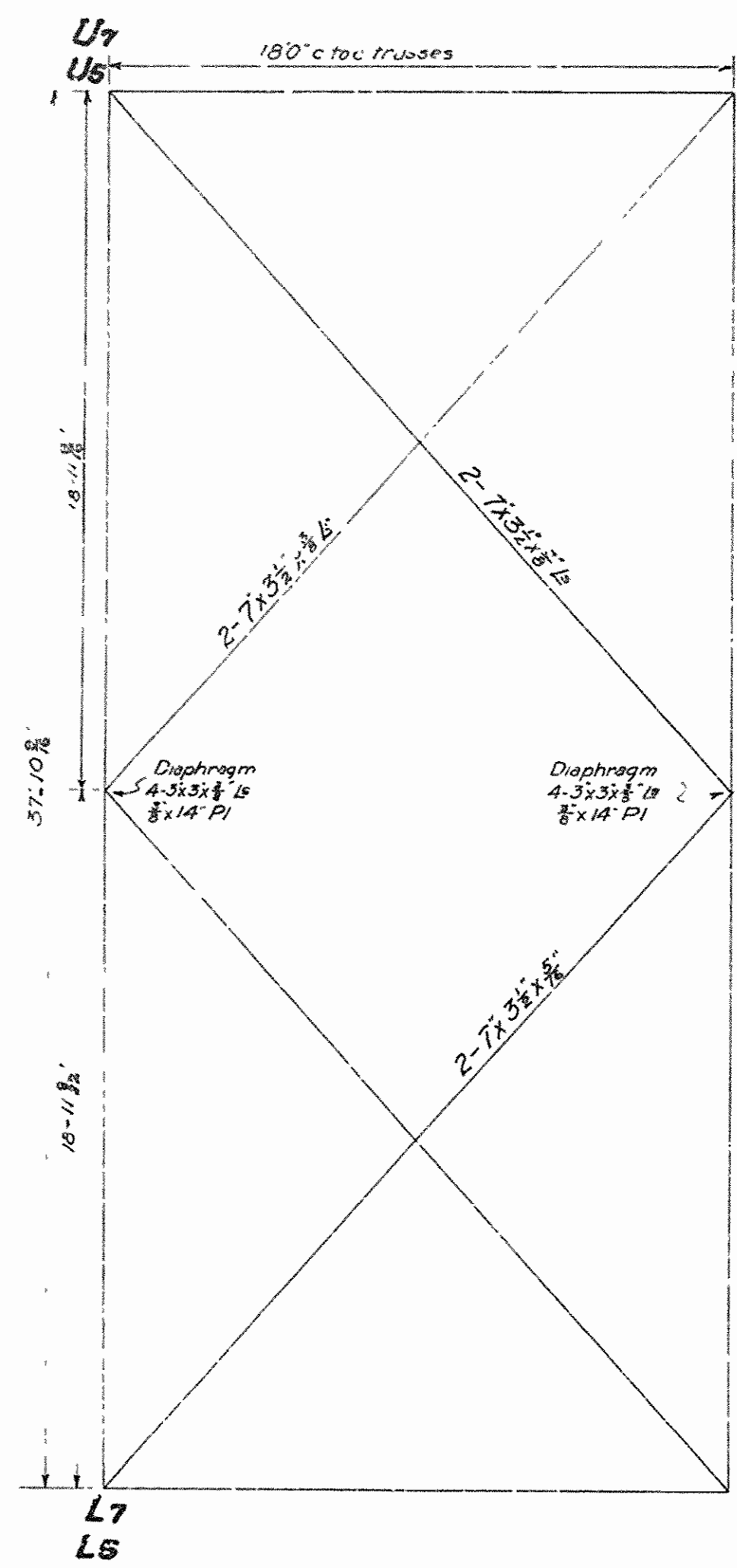
ARKANSAS STATE HIGHWAY COMMISSION
BRIDGE OVER WHITE RIVER
 NEAR
AUGUSTA, ARKANSAS

STRESSES & SECTIONS
 TRUSS SPAN

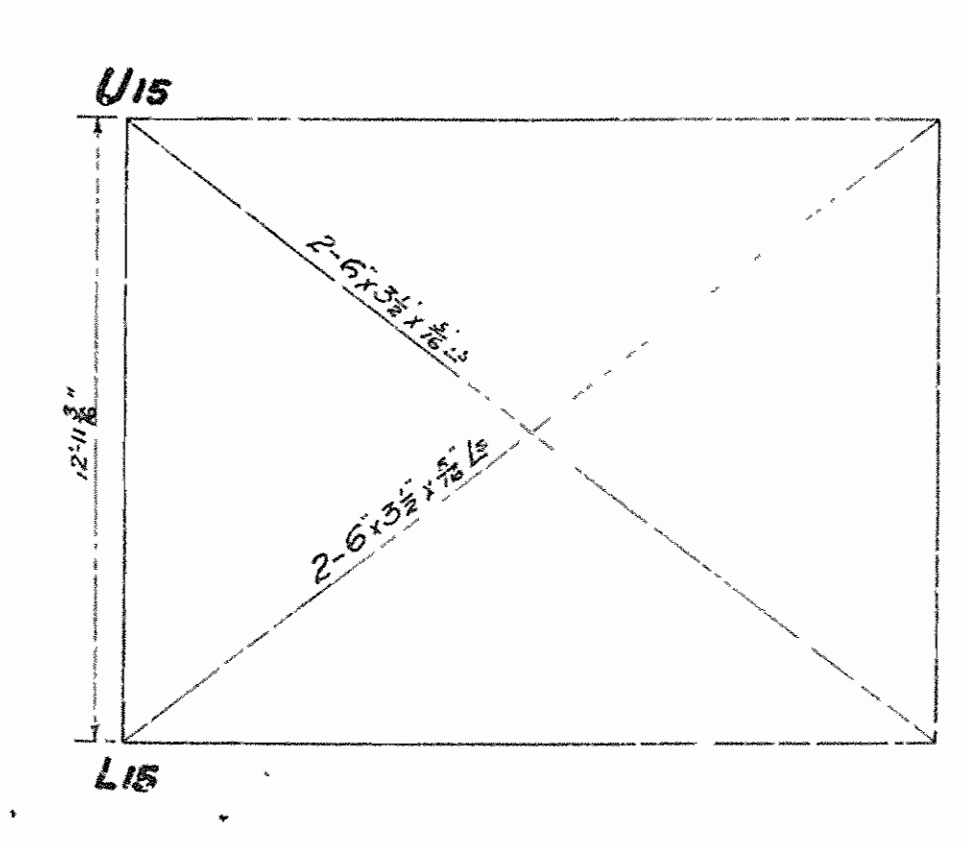
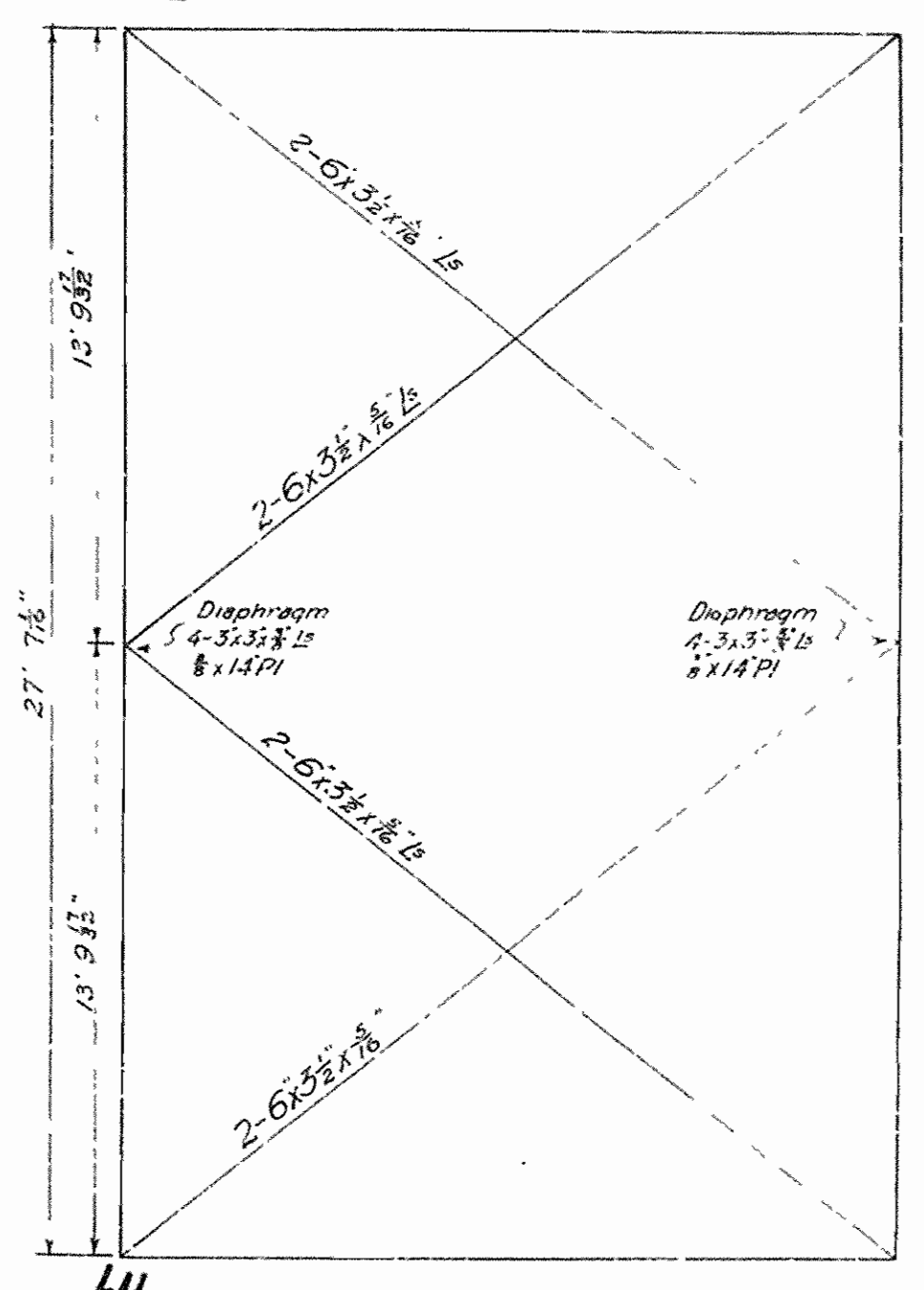
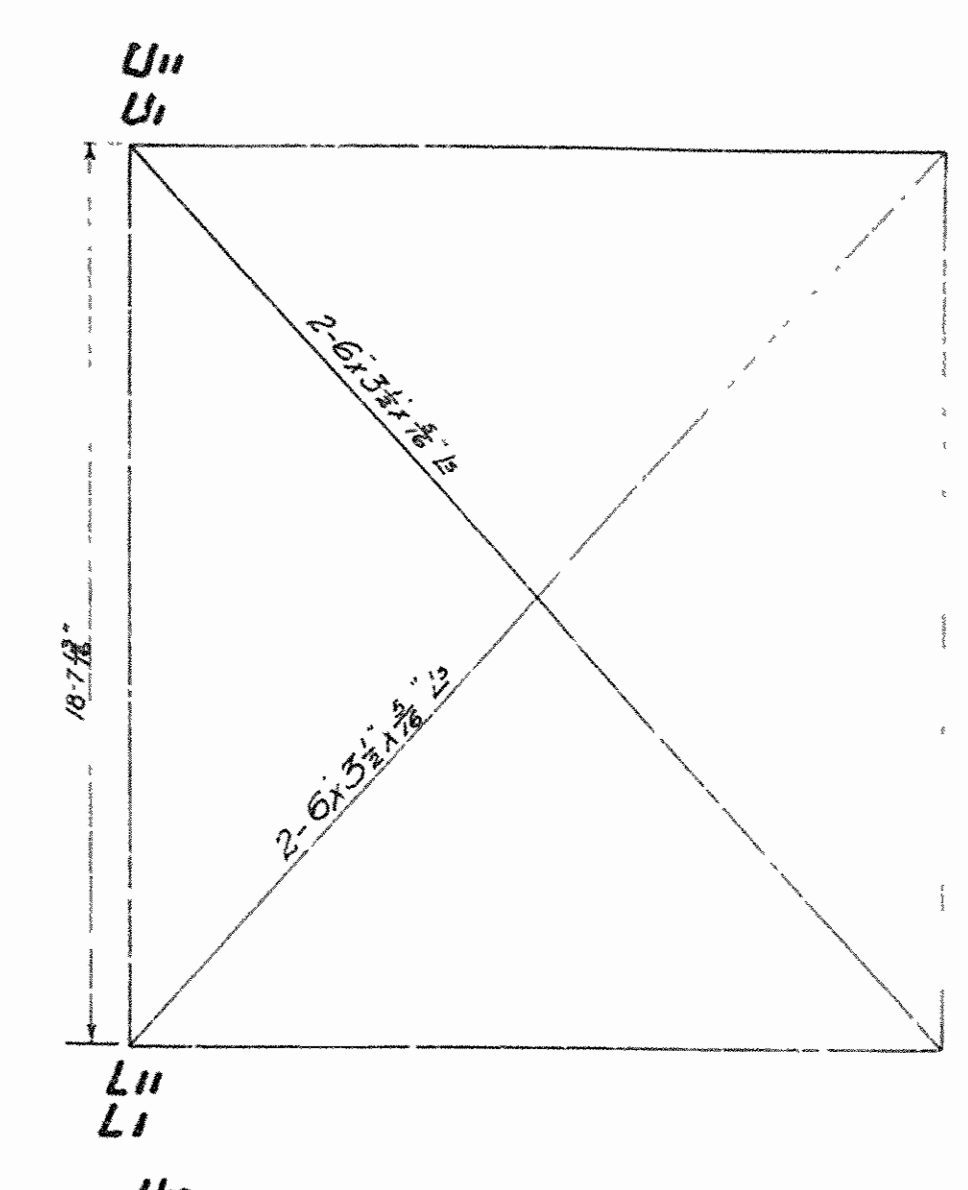
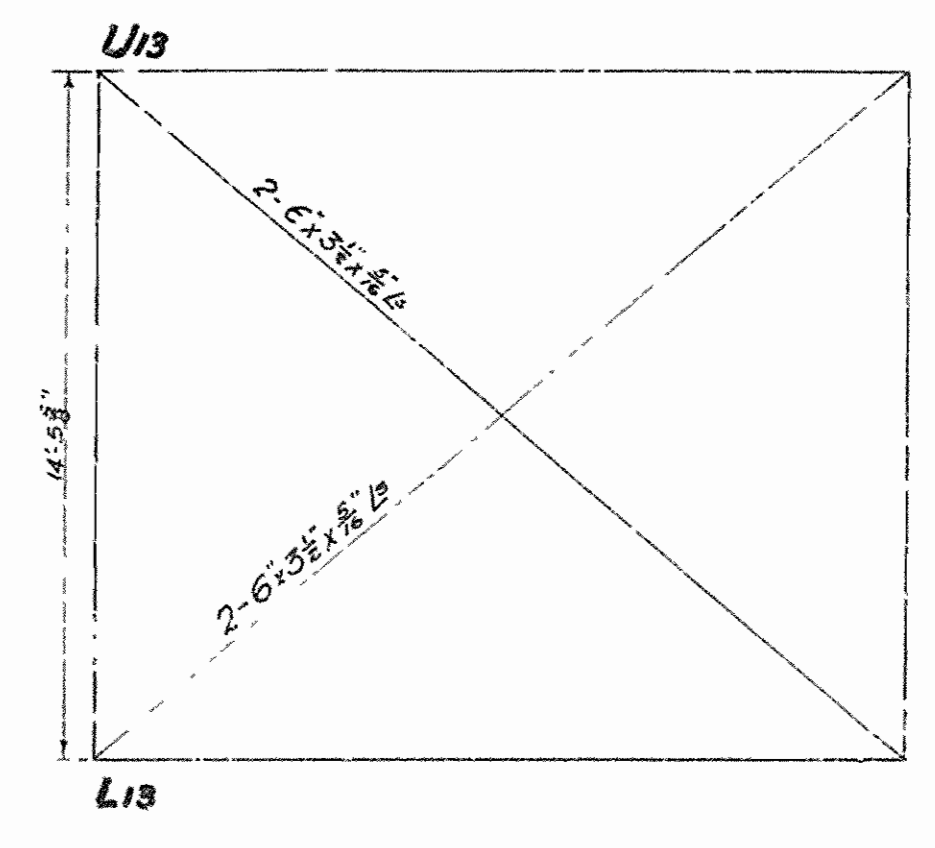
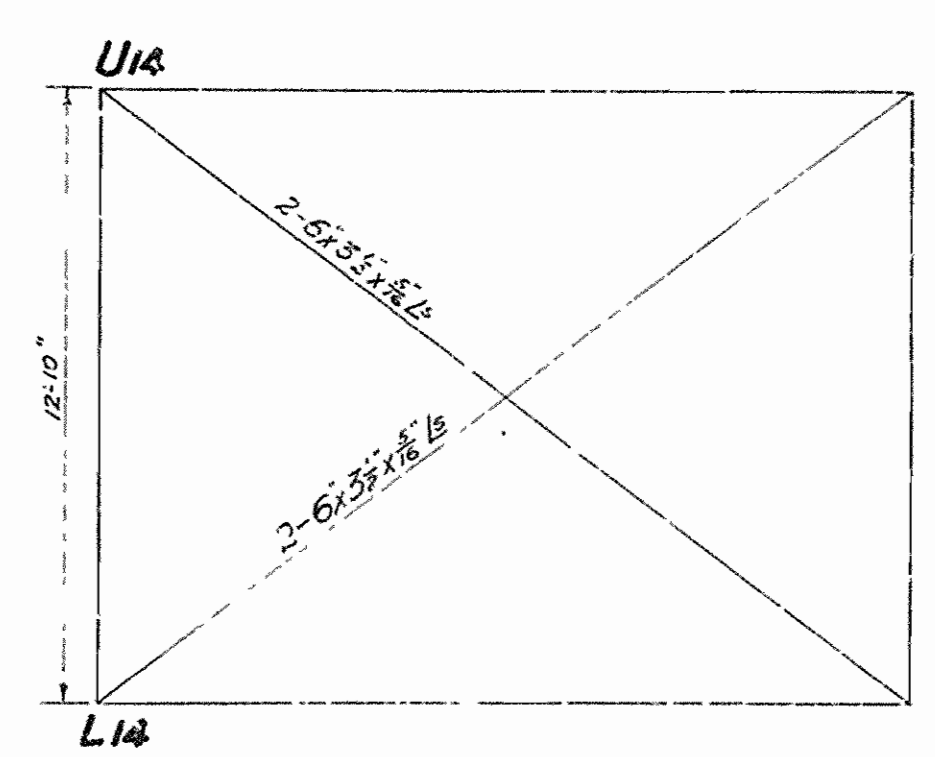
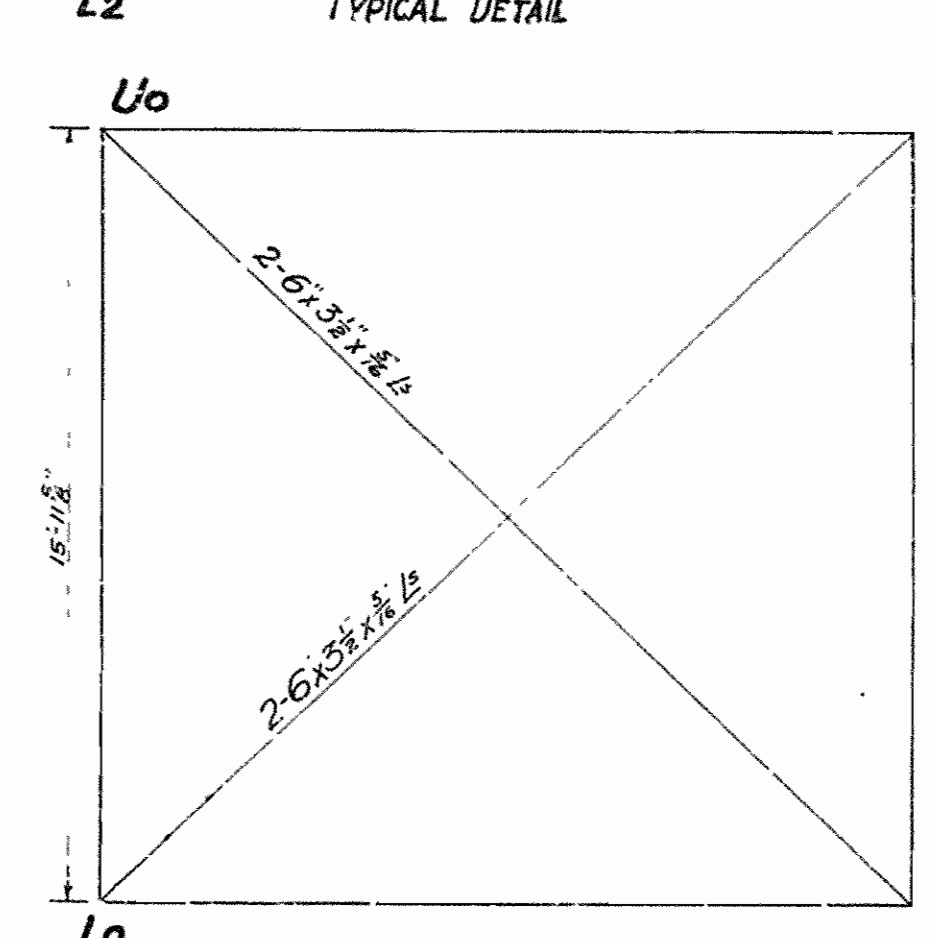
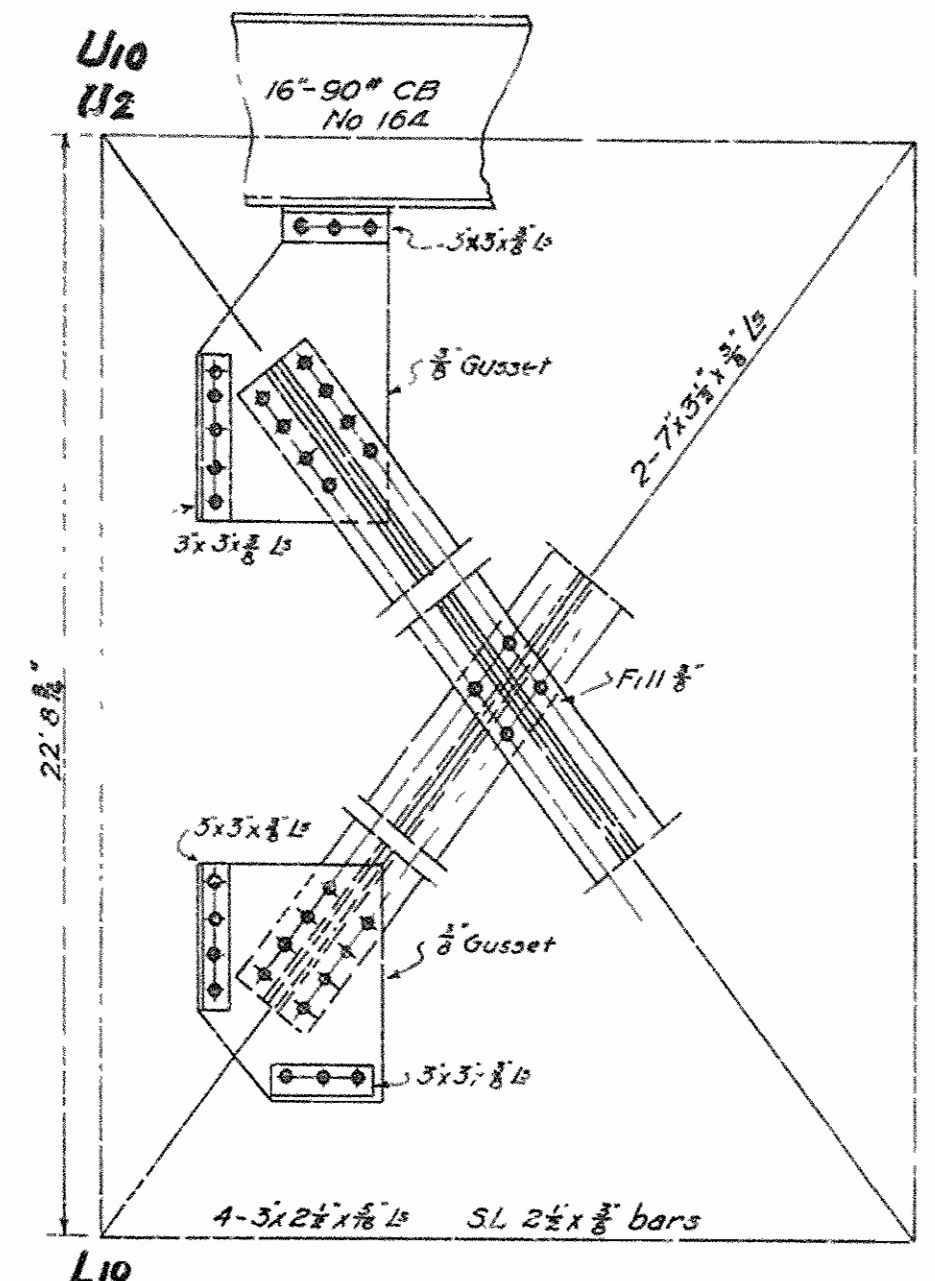
MADE BY J.G.M. IRA G. HEDRICK, INC.
 TRACED BY J.G.M. CONSULTING ENGINEERS
 CHECKED BY L.D. HOT SPRINGS, ARKANSAS
 DATE: APRIL 28, 1929 SCALE: 1" = 20' SHEET NO. 3



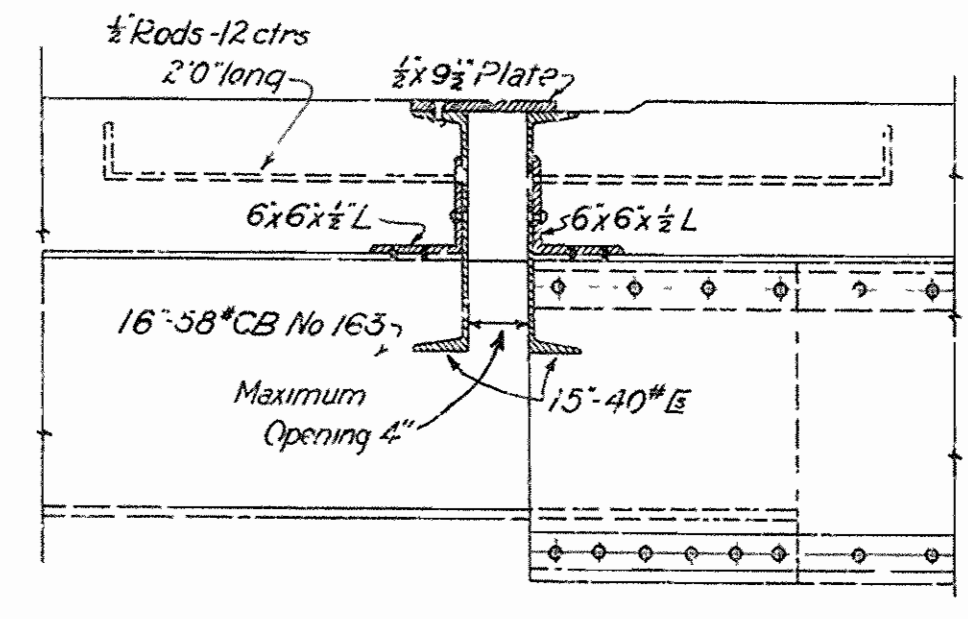
L6 NOTE: $\frac{3}{8}$ " St Pls. not less than 21" long at ends of all members.



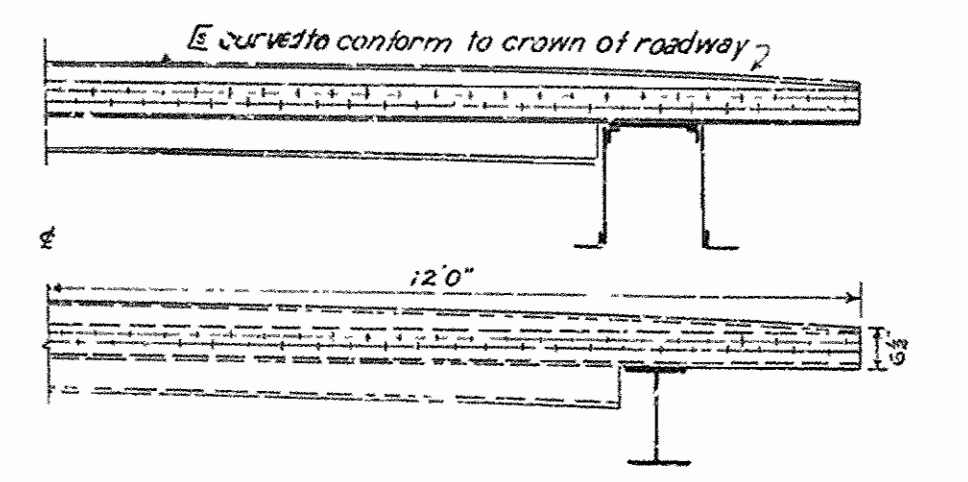
ANCHORAGE SWAY BRACING



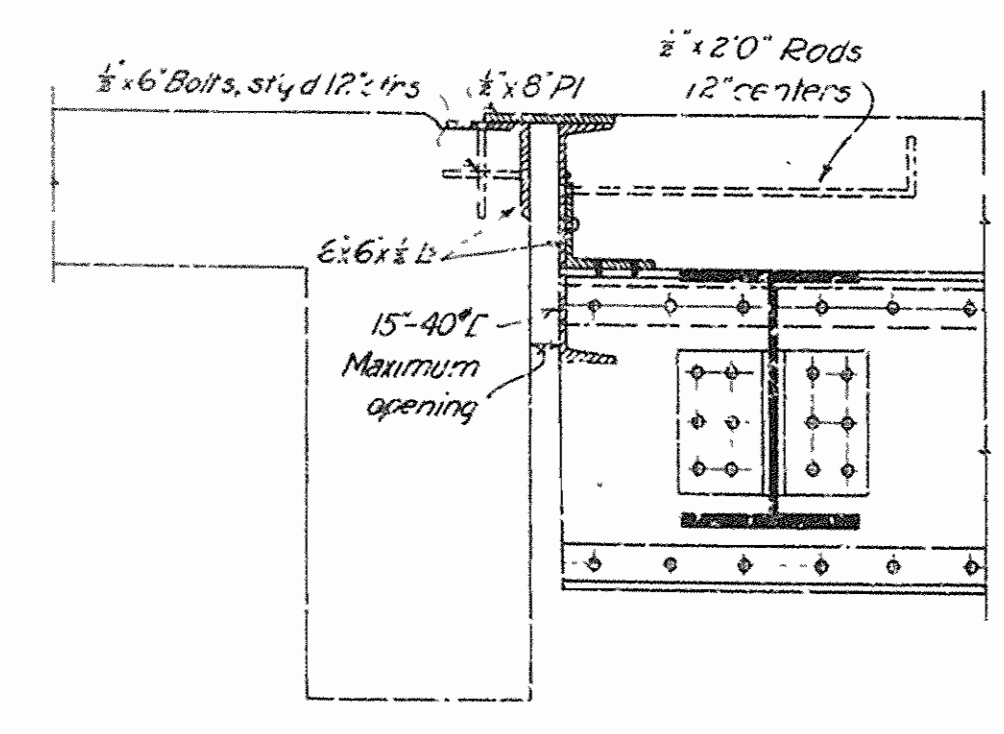
VOID



DETAILS OF EXPANSION JOINT BETWEEN U10 AND U13 SCALE 1" = 1'0"

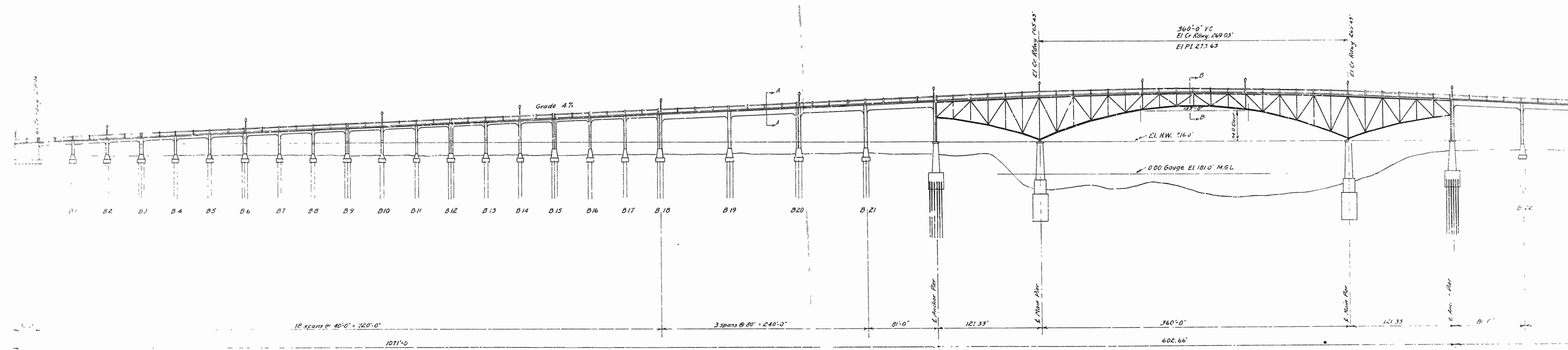


VIEW SHOWING COPING OF CHANNELS SCALE 1/8" = 1'-0"

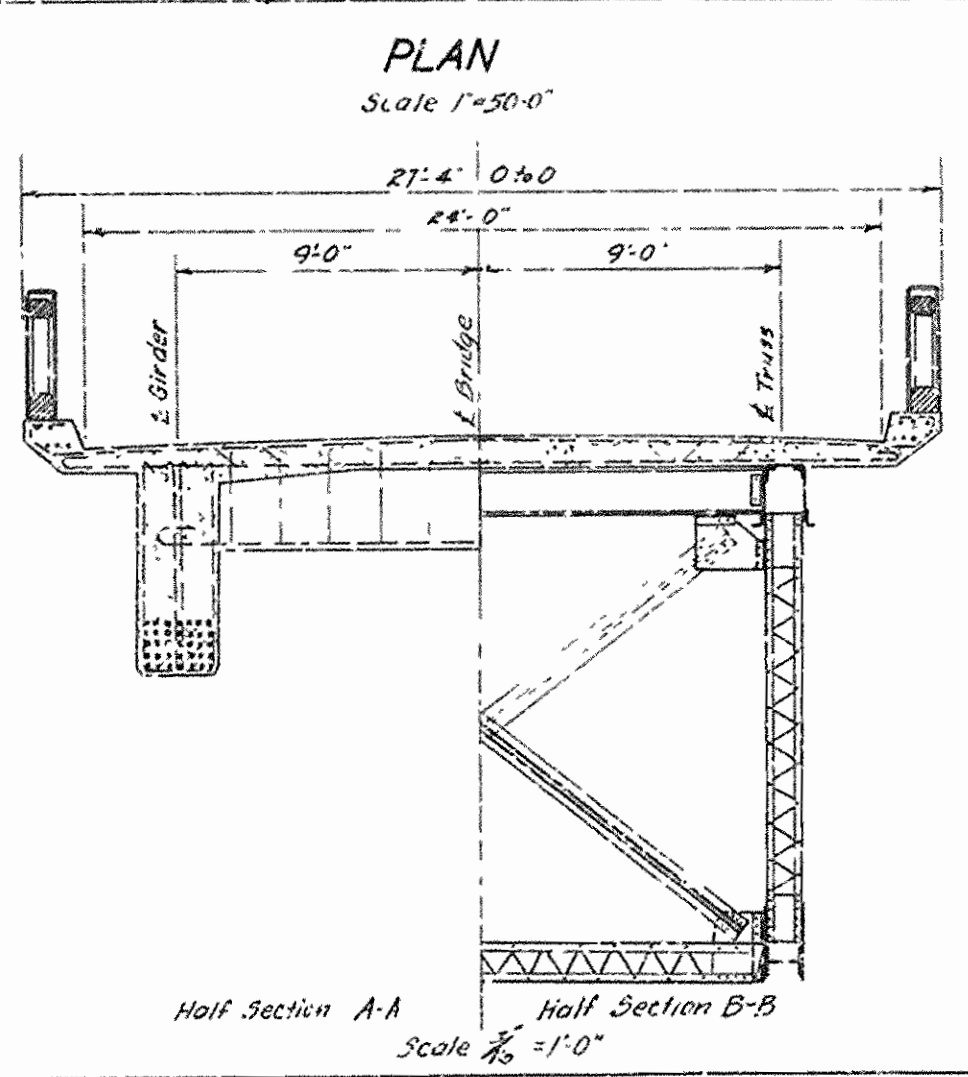
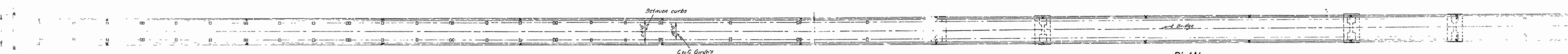


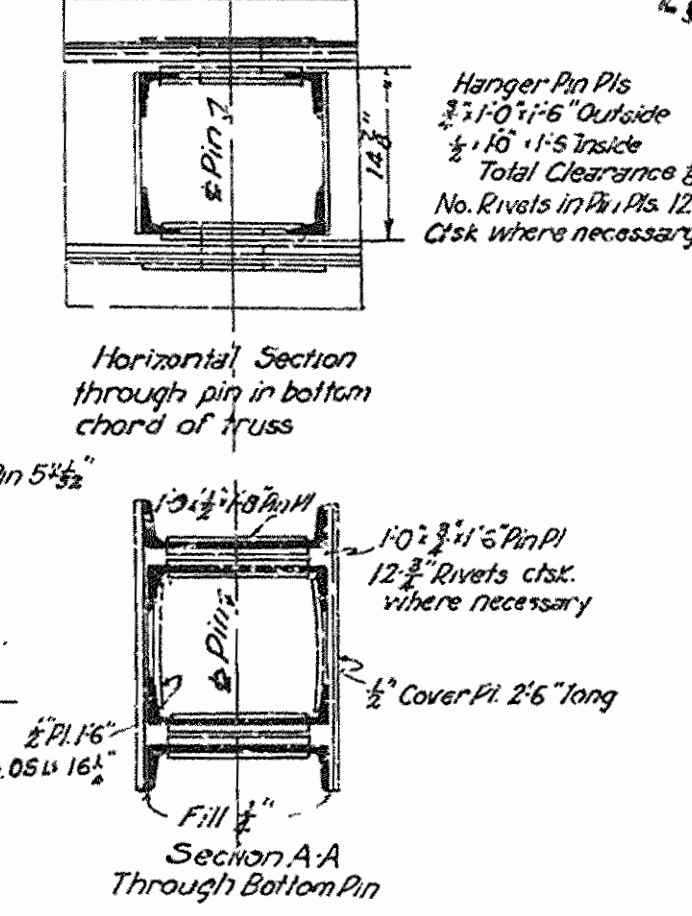
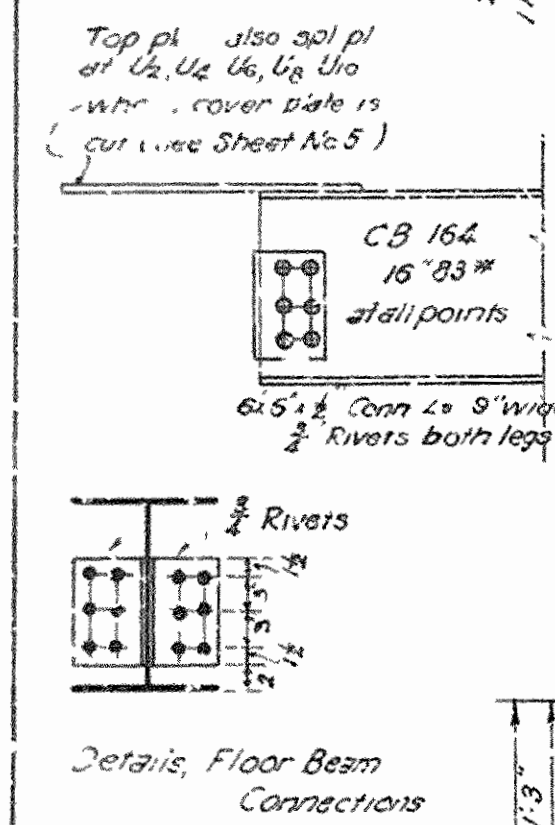
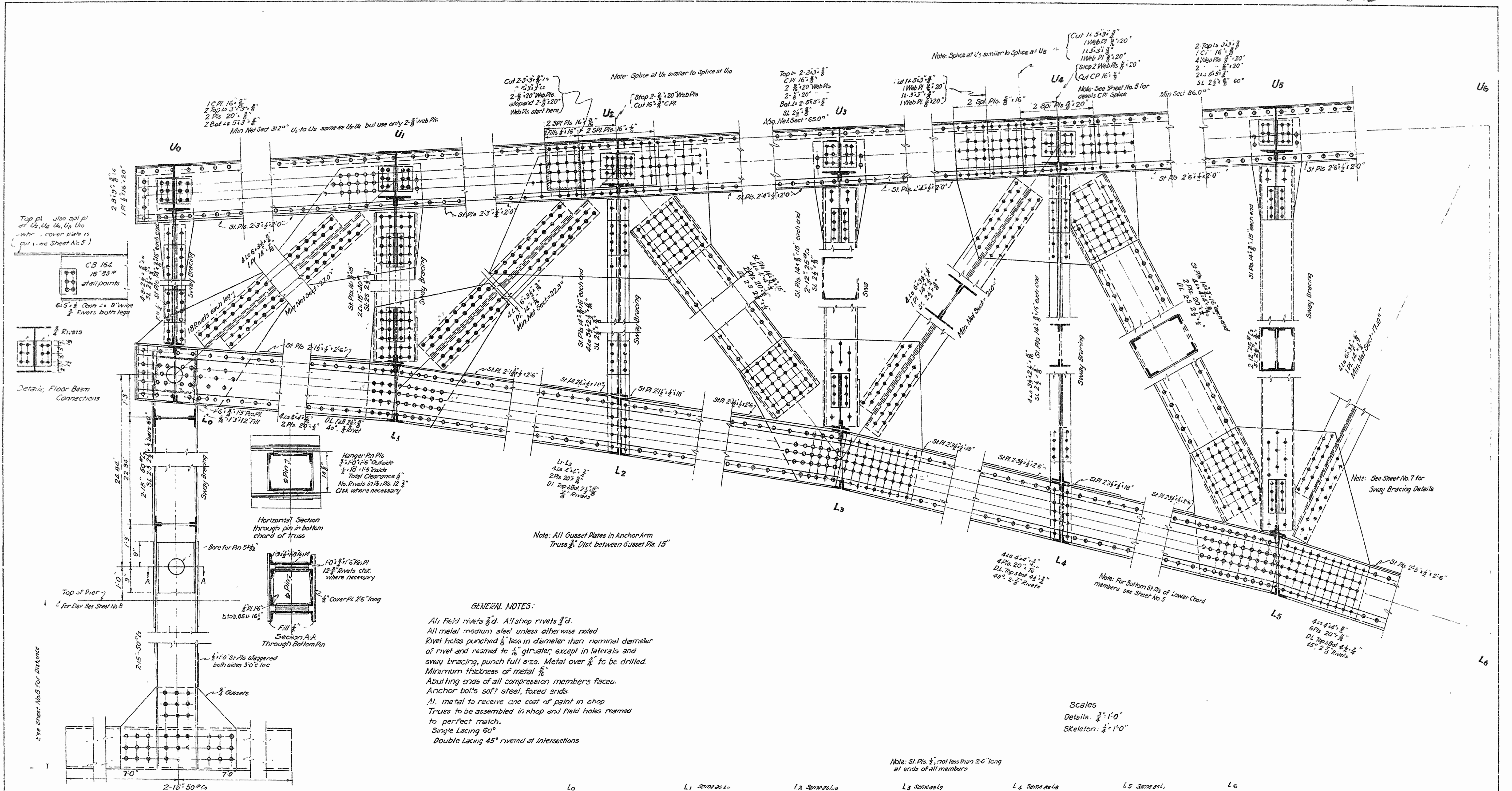
EXPANSION JOINT AT END OF STEEL SPAN SCALE 1" = 1'0"

-GENERAL NOTES-
 All shop rivets $\frac{3}{8}$ " Field rivets $\frac{5}{8}$ " unless otherwise noted.
 All two angle diagonals long legs to b. $\frac{3}{4}$ " apart, stitched 6" centers, $\frac{3}{8}$ " ring fills, short legs vertical.
 All gusset plates $\frac{3}{8}$ " unless otherwise noted.
 Rivet holes in sway bracing and laterals may be punched full size.
 All metal to receive one coat of paint in shop.
 Minimum thickness of metal $\frac{3}{8}$ ".
 Single lacing 60".
 Double lacing 45°, riveted at intersections.



Total length 2,444.66'
ELEVATION





GENERAL NOTES:

All field rivets 3/4" d. All shop rivets 3/4" d.

All metal medium steel unless otherwise noted

Rivet holes punched 1/8" less in diameter than nominal diameter of rivet and reamed to 1/16" gap later, except in laterals and sway bracing, punch full size. Metal over 1/4" to be drilled.

Minimum thickness of metal 5/16"

Abutting ends of all compression members face.

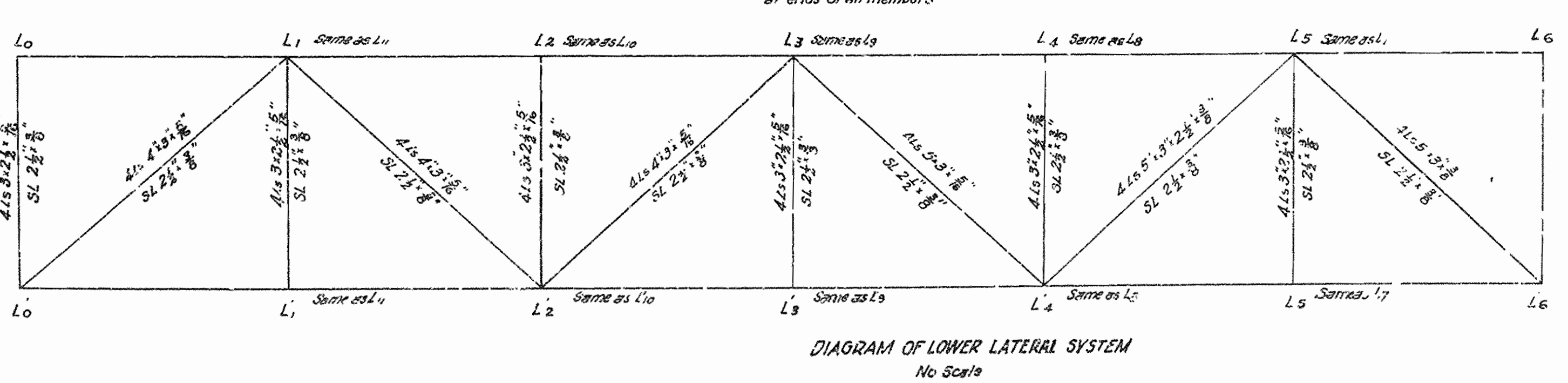
Anchor bolts soft steel, fixed ends.

All metal to receive one coat of paint in shop

Truss to be assembled in shop and field holes reamed to perfect match.

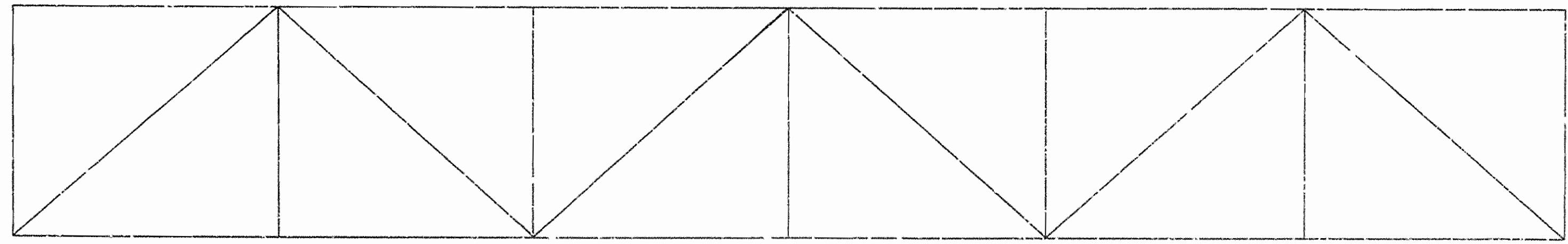
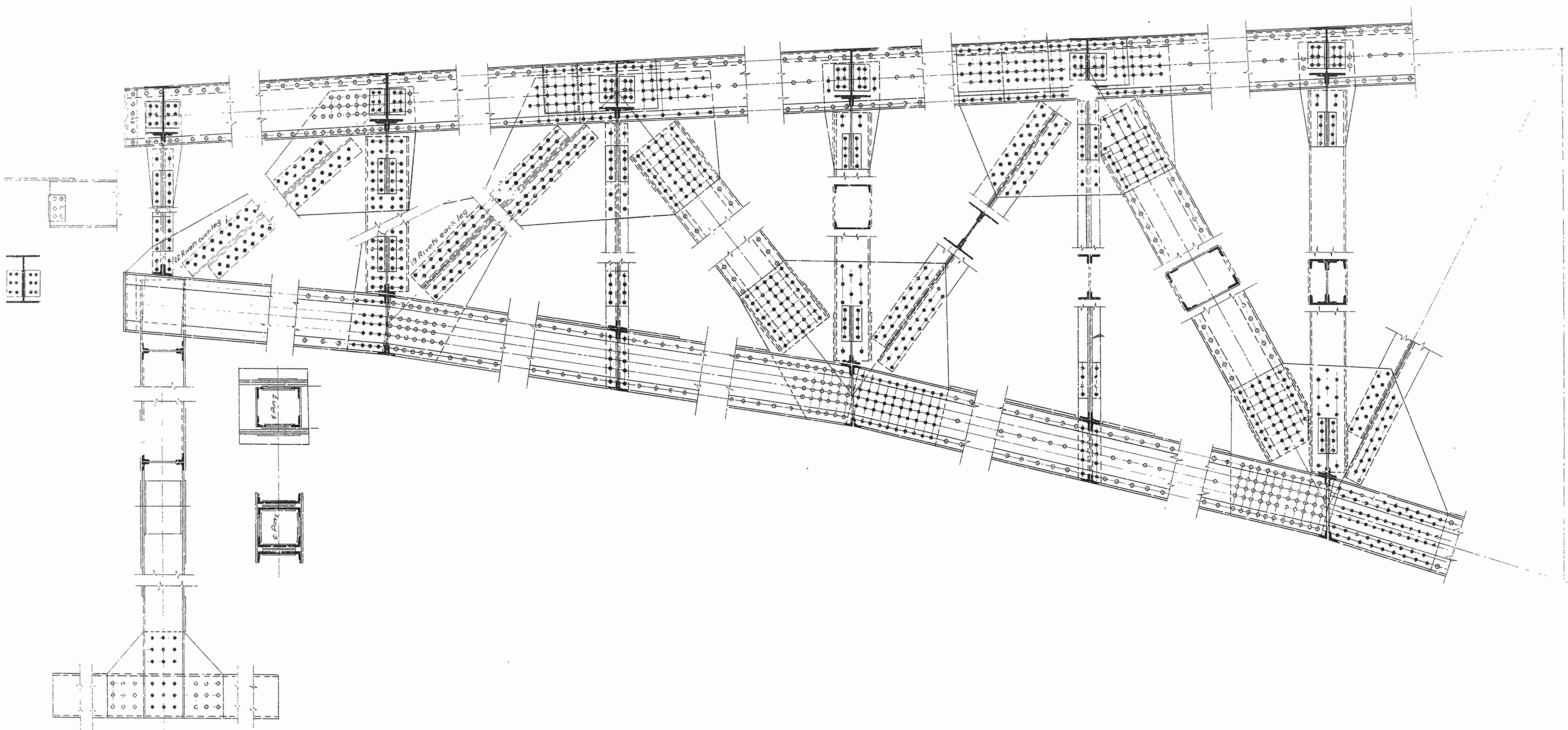
Single Lacing 60°

Double Lacing 45° riveted at intersections

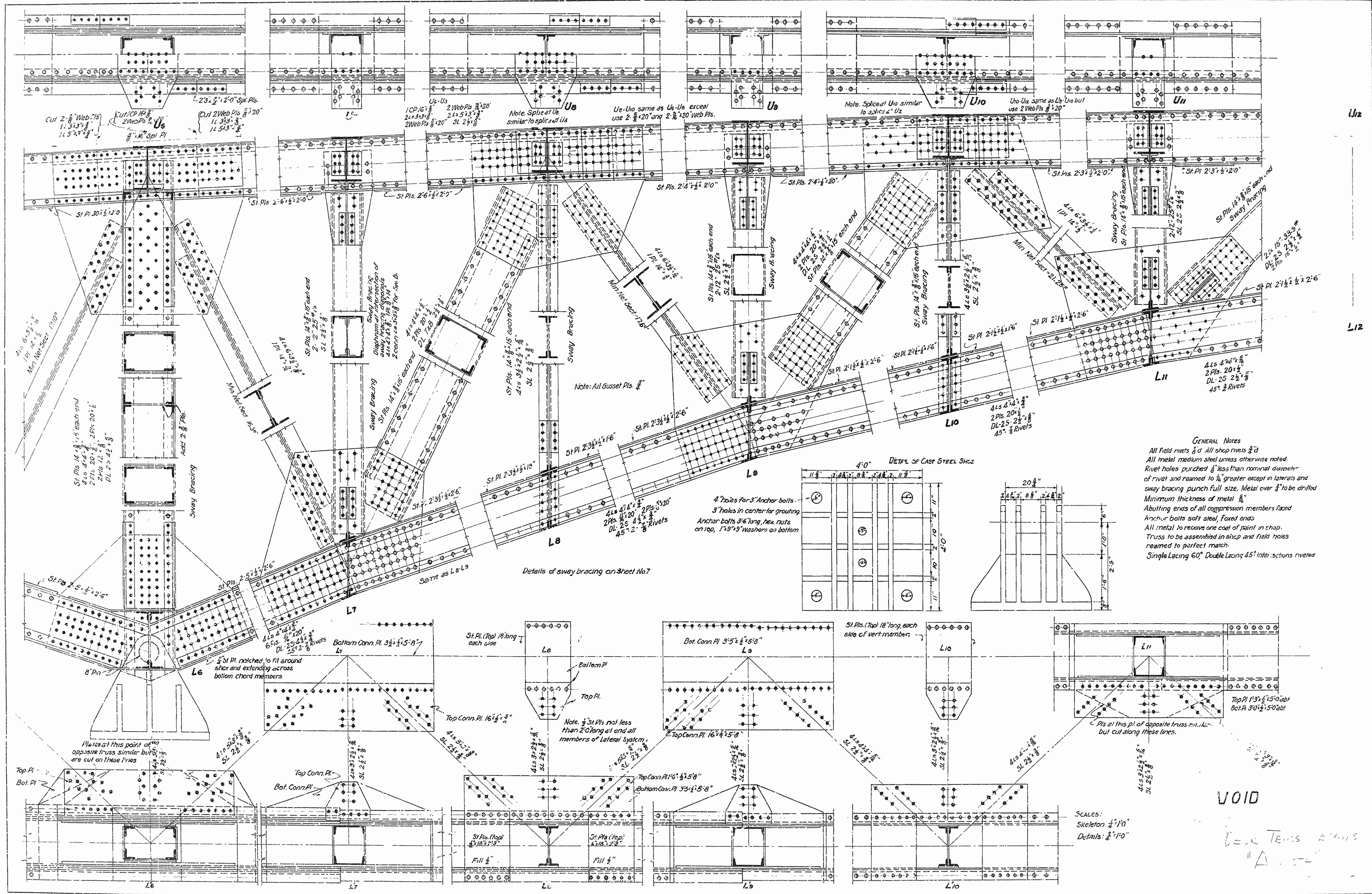


Scales
Details: 3/4" = 1'-0"
Skeleton: 1/2" = 1'-0"

VOID



VOID

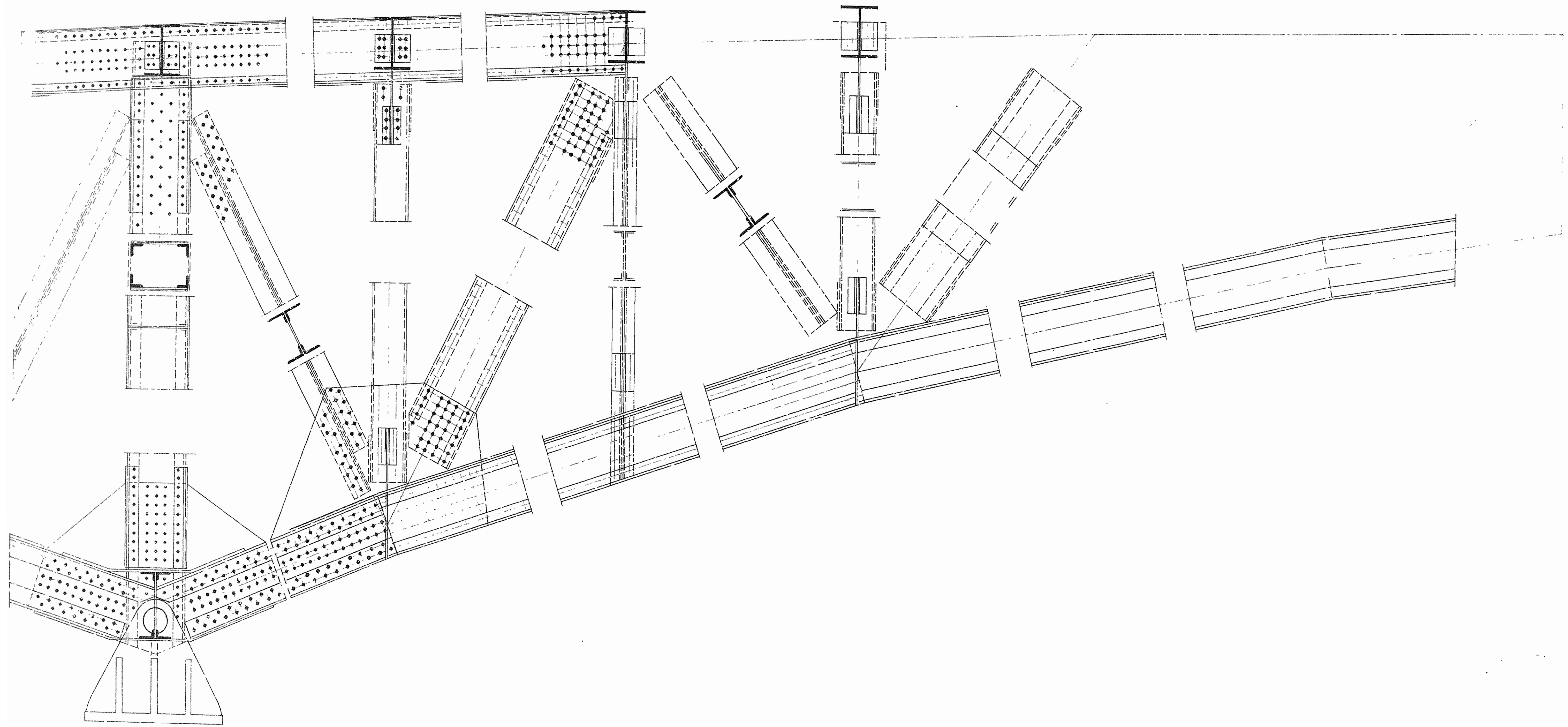


GENERAL NOTES
 All field rivets 3/4" and all shop rivets 3/8"
 All metal medium steel unless otherwise noted.
 Rivet holes punched 1/16" less than nominal diameter of rivet and reamed to 1/16" greater except in laterals and sway bracing punch full size. Metal over 3/8" to be drilled.
 Minimum thickness of metal 5/16"
 Abutting ends of all compression members faced.
 Anchor bolts soft steel, faced ends.
 All metal to receive one coat of paint in shop.
 Truss to be assembled in shop and field holes reamed to perfect match.
 Single Lacing 60°, Double Lacing 45° Inter-sections riveted.

SCALES:
 Skeleton 1/2"=1'-0"
 Details 3/8"=1'-0"

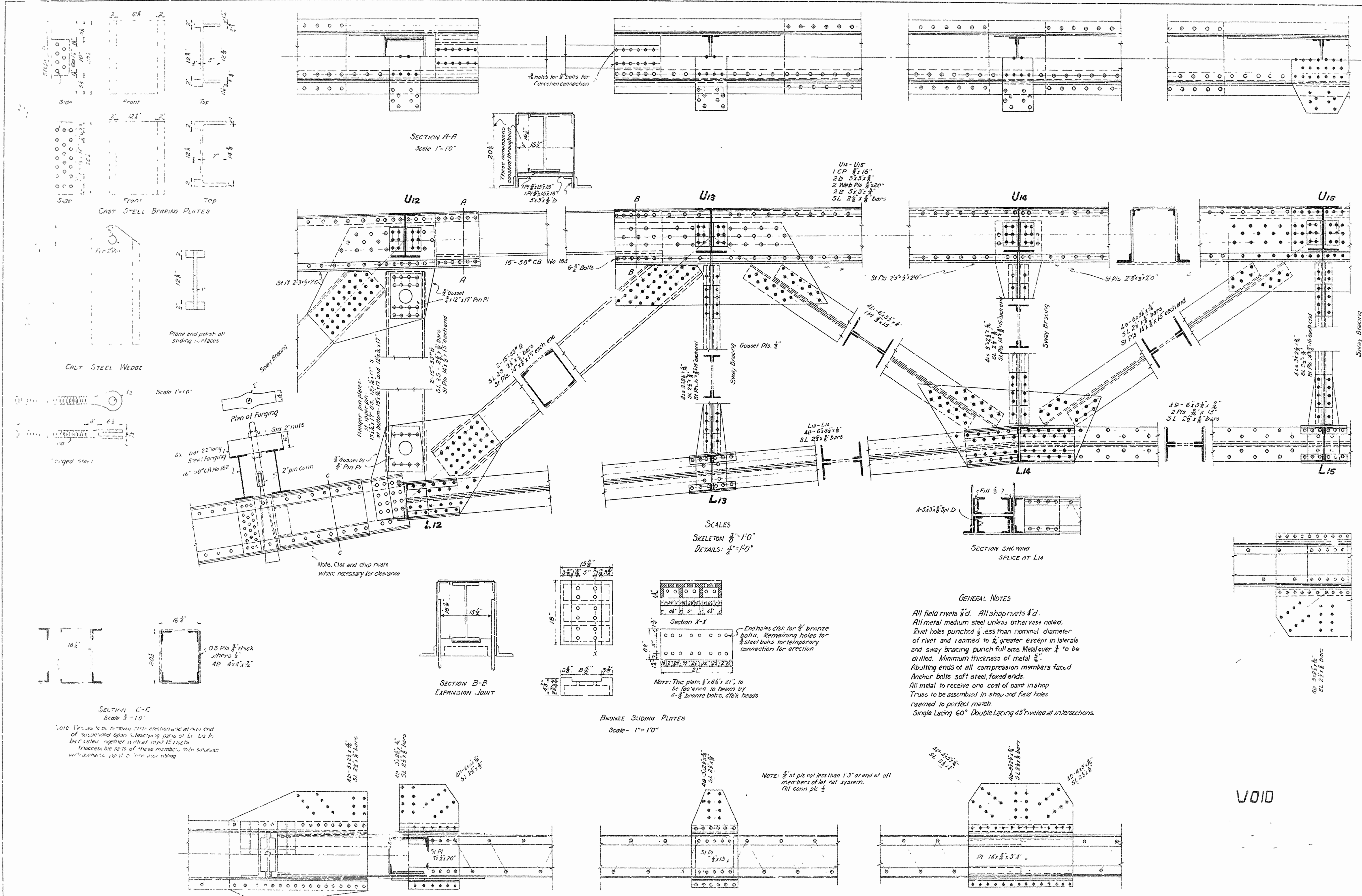
VOID

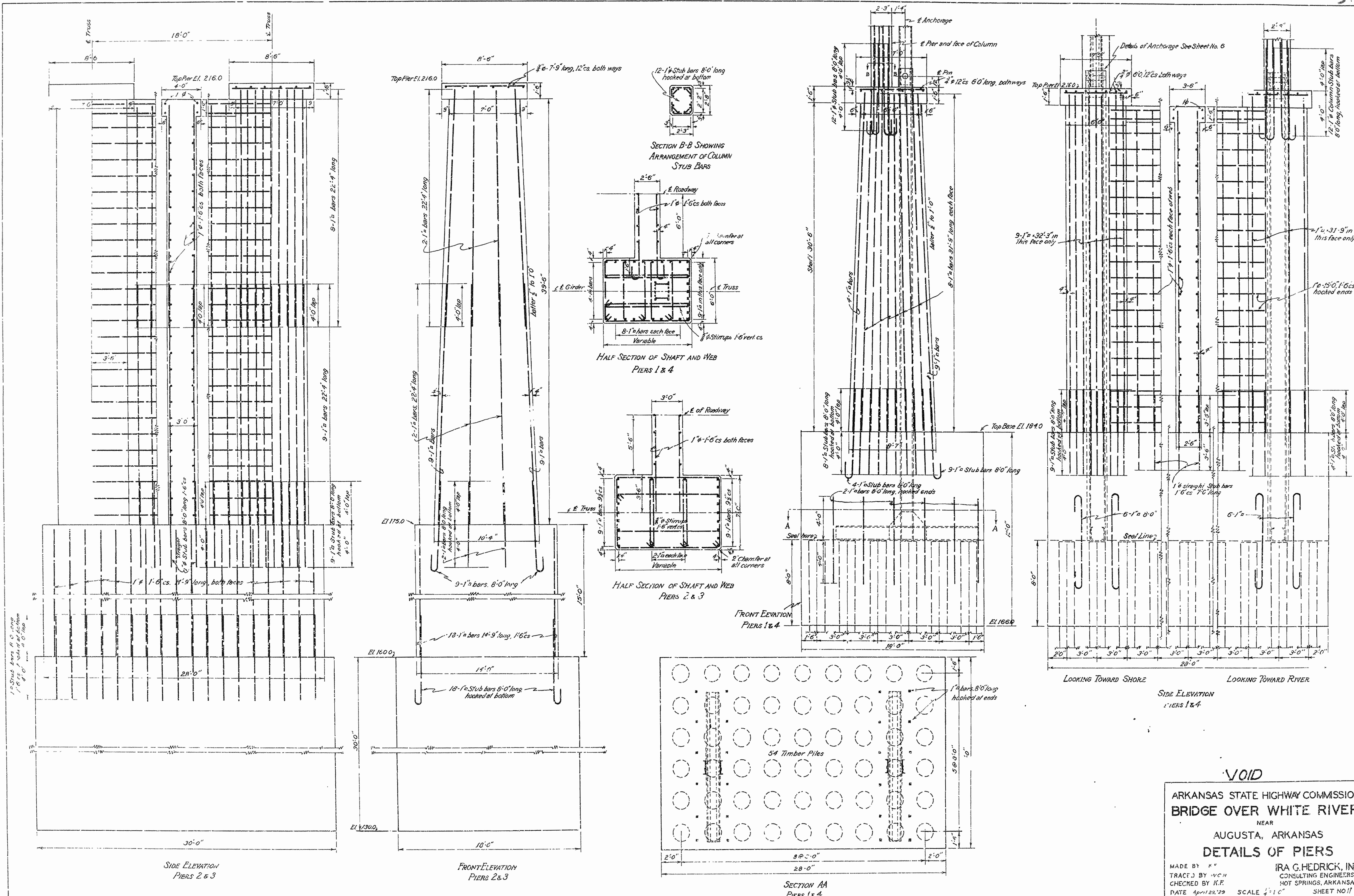
DOCK TENS 27115
 "A"



VOID

Dr. No. 613 DRWG. No. 4956

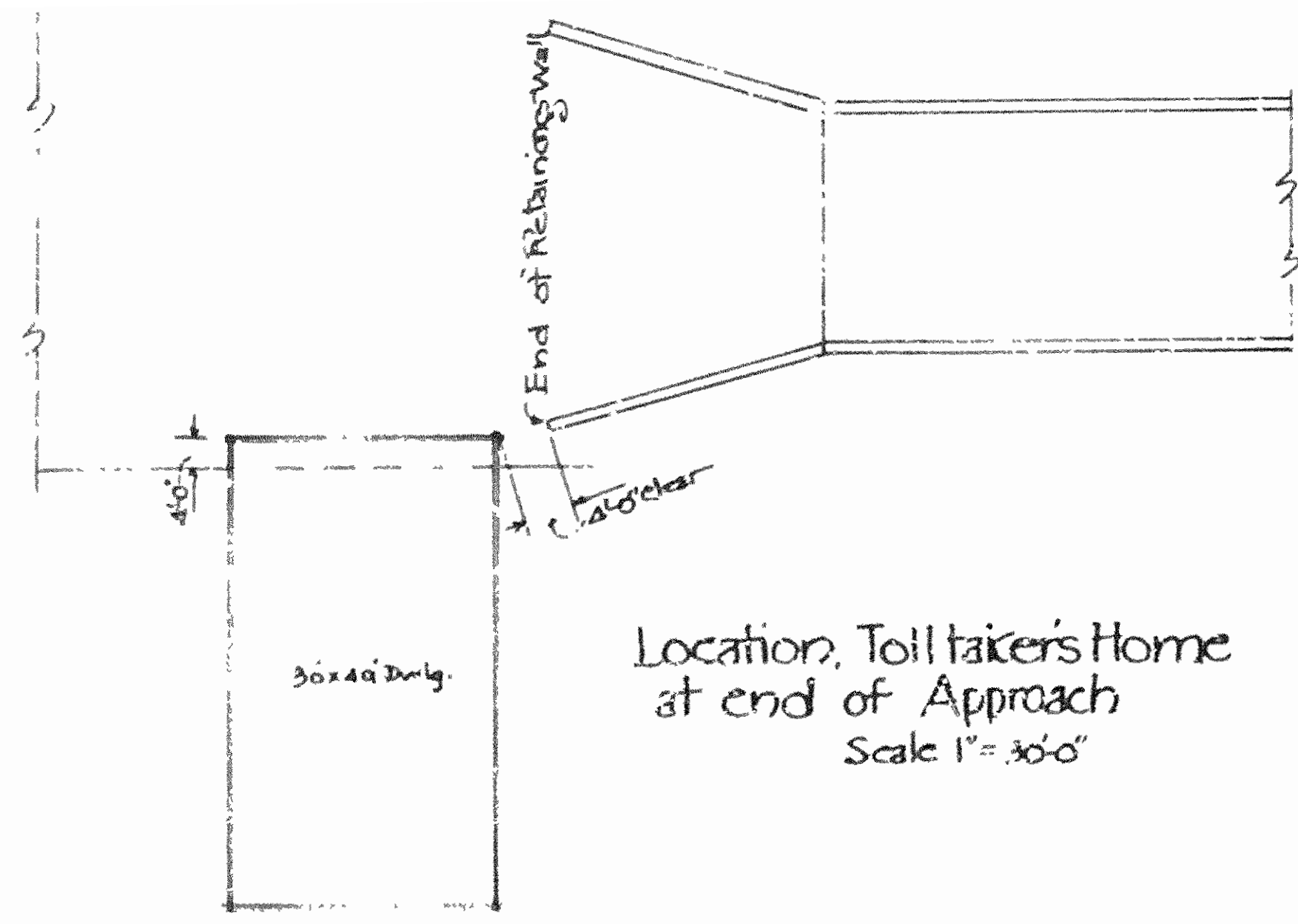




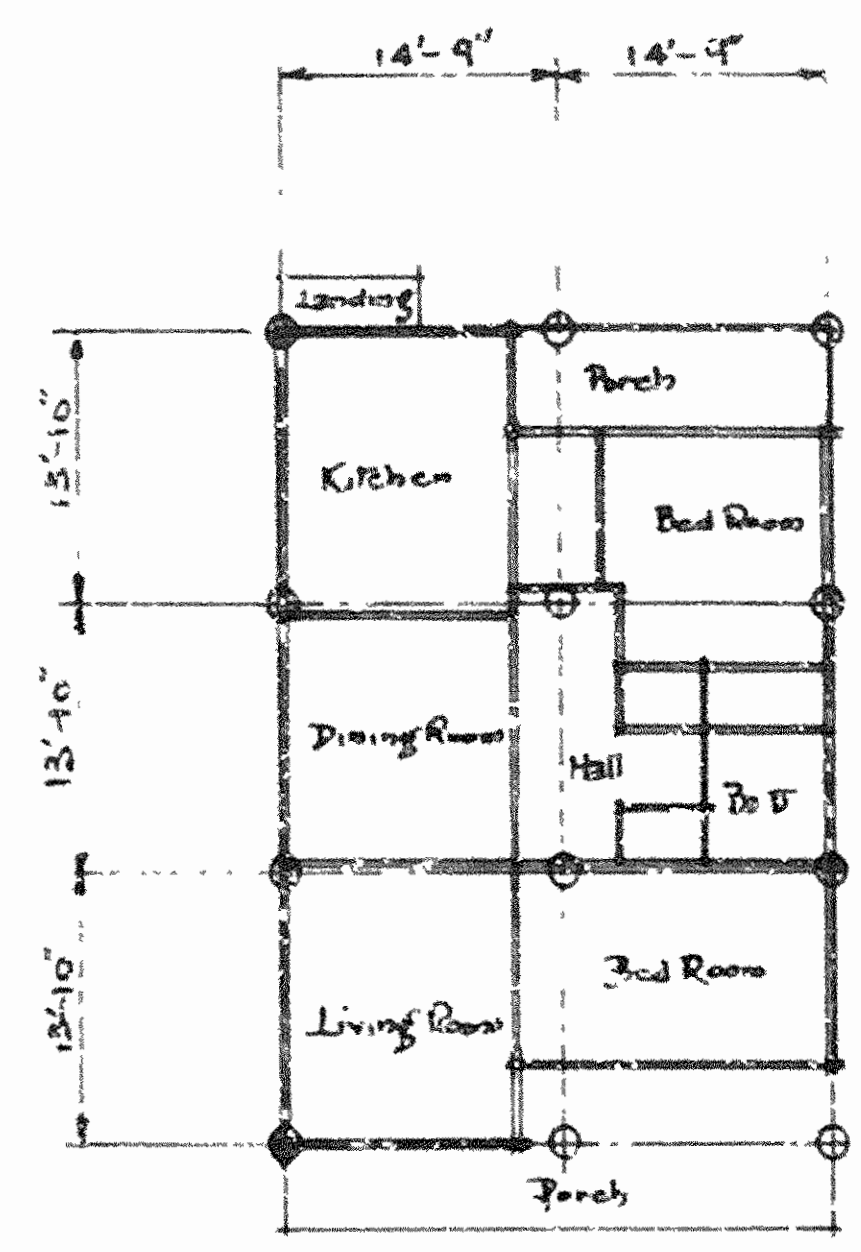
VOID

ARKANSAS STATE HIGHWAY COMMISSION
BRIDGE OVER WHITE RIVER
 NEAR
AUGUSTA, ARKANSAS
DETAILS OF PIERS

MADE BY K.F. IRA G. HEDRICK, INC.
 TRACED BY WCH CONSULTING ENGINEERS
 CHECKED BY K.F. HOT SPRINGS, ARKANSAS.
 DATE April 23, 29 SCALE 1/4" = 1'-0" SHEET NO. 11



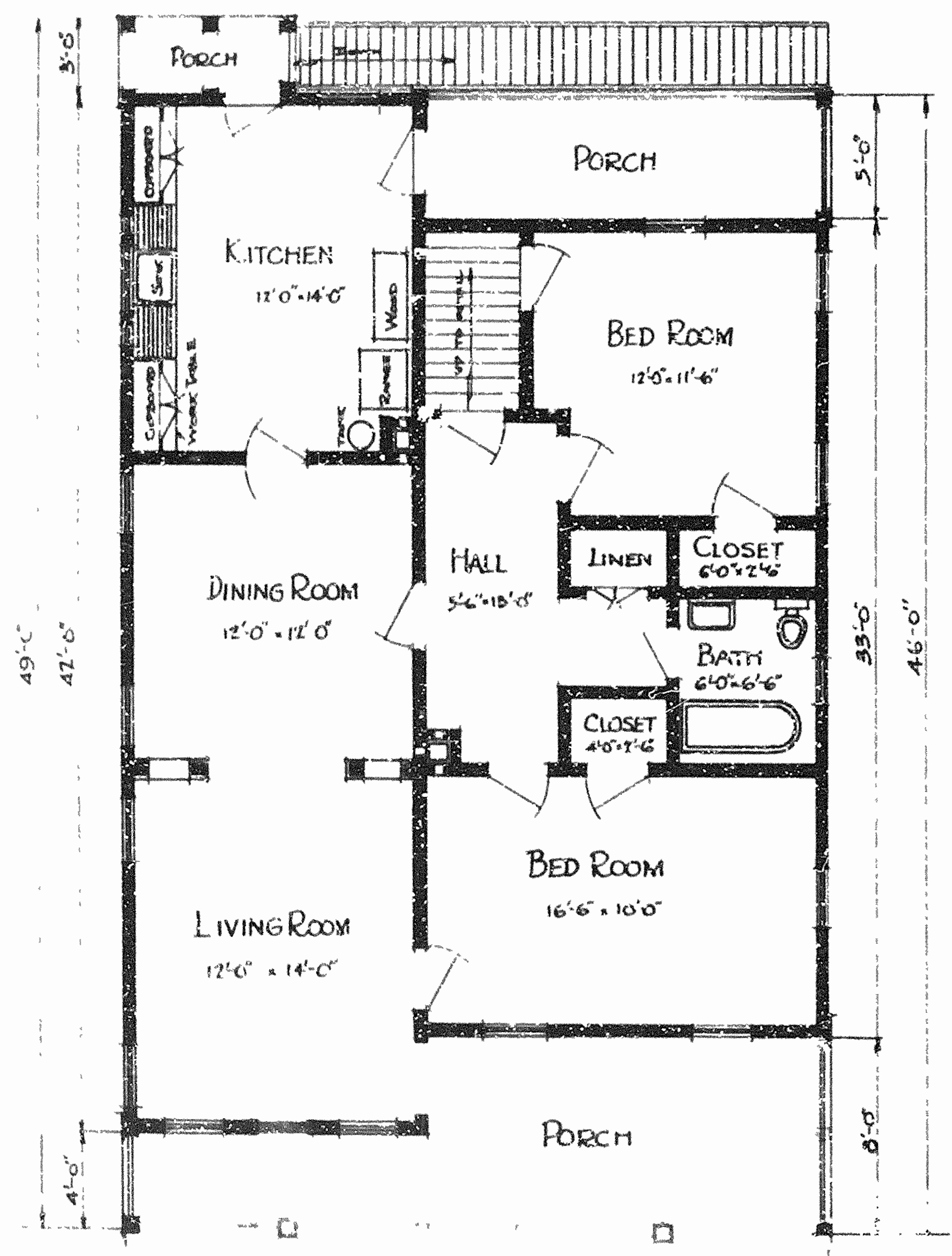
Location, Toll taker's Home
at end of Approach
Scale 1" = 30'-0"



PLAN OF PILE SPACING
Scale 1" = 20'-0"



FRONT ELEVATION

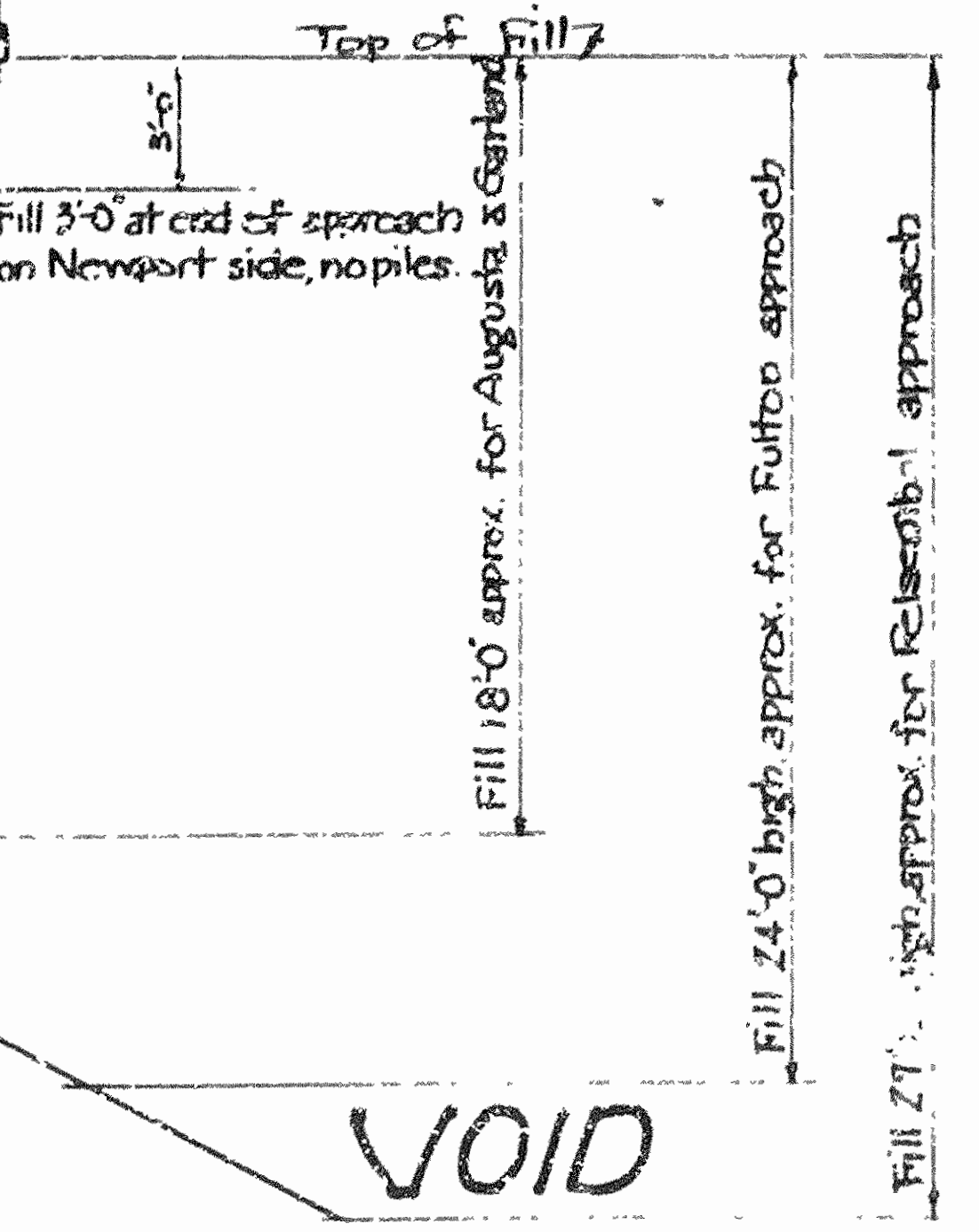


Slope 2 to 1

SIDE ELEVATION

Scale - 1/8" = 1'-0" unless
otherwise noted

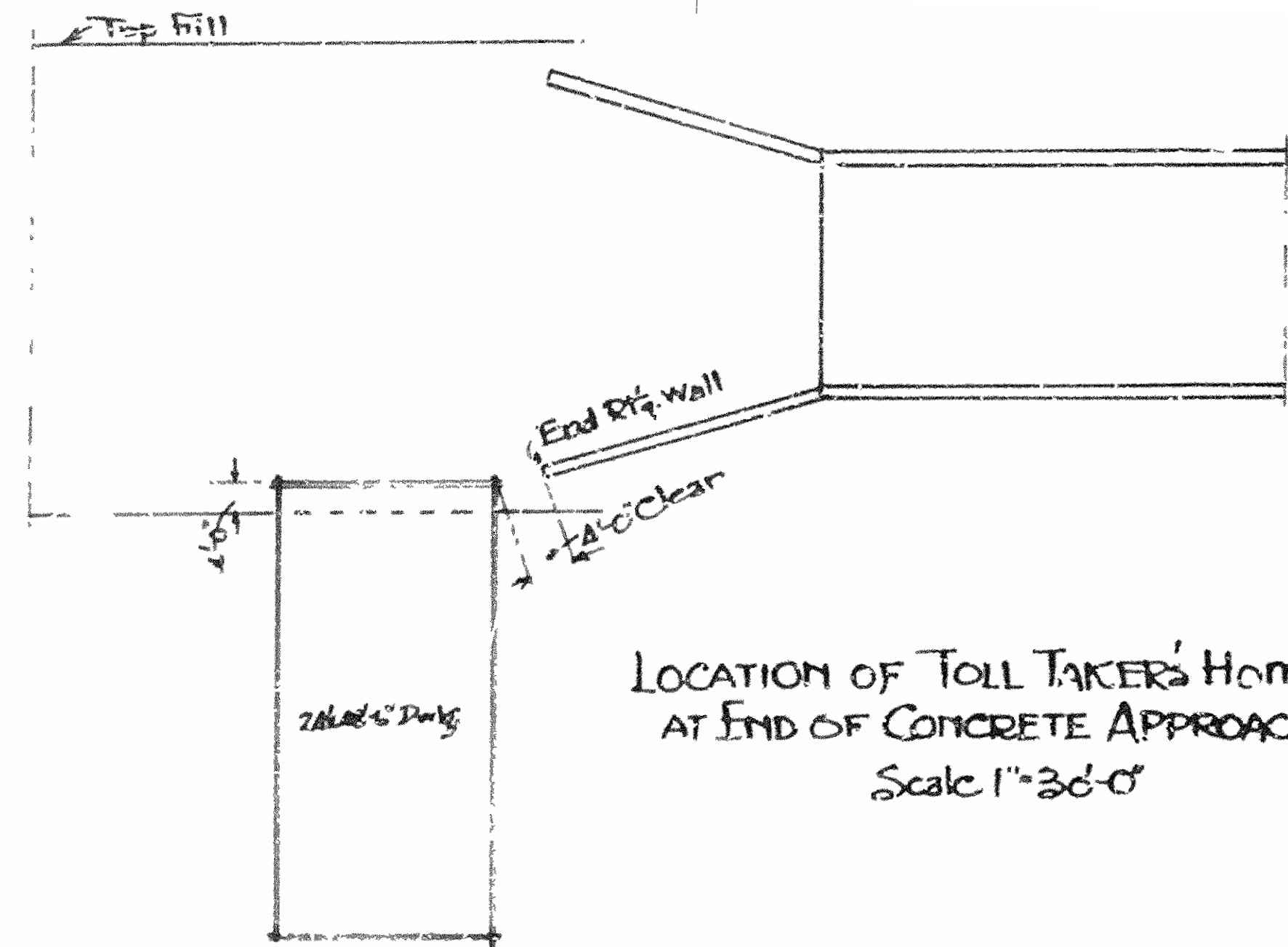
Floor Joist 2x12-16cs.
Sill, 4 pcs 3x14"
Pitch of roof - 1/2
All piles and bracing
to be treated with creosote



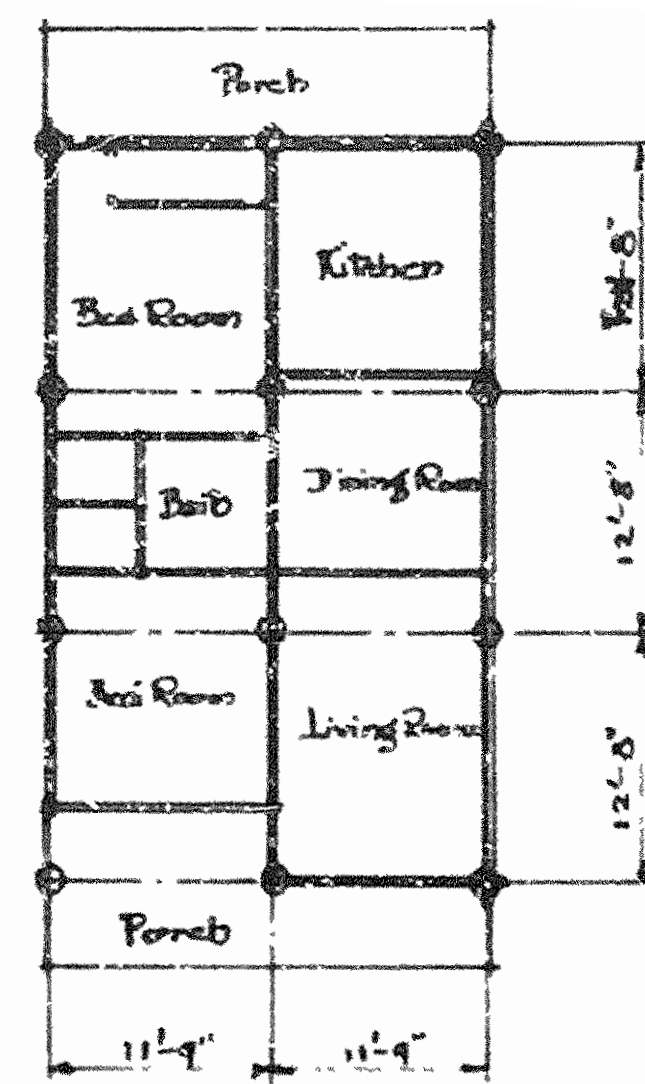
ARKANSAS STATE HIGHWAY COMMISSION
TOLL TAKER'S HOUSE
FOR
STATE TOLL BRIDGES
AT
FULTON, GARLAND CITY, FELSENTHAL, NEWPORT, & AUGUSTA.

IRA G. HEDRICK, INC.
Consulting Engineers.
BR. No. 613

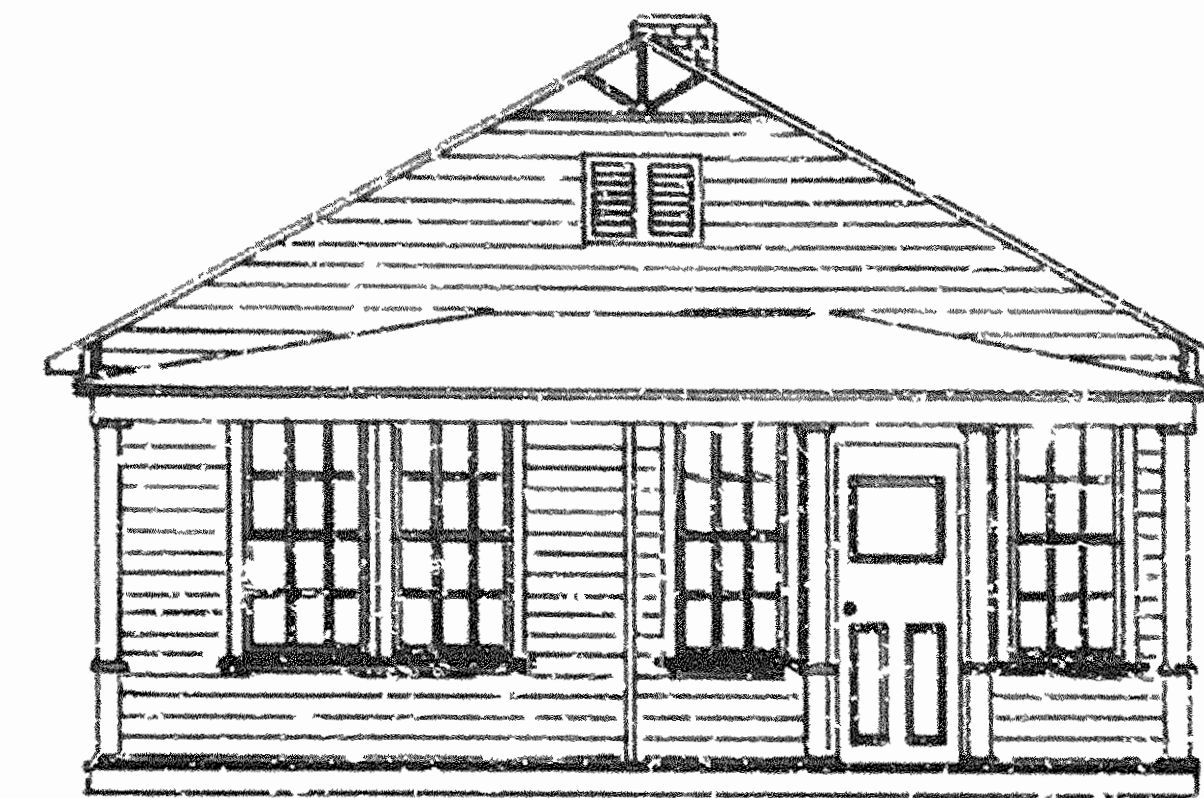
Made by: K.F.
Date: Dec. 13, 1929
Sheet no. 12
DRG. No. 4960



LOCATION OF TOLL TAKER'S HOME
AT END OF CONCRETE APPROACH
Scale 1"=36'-0"

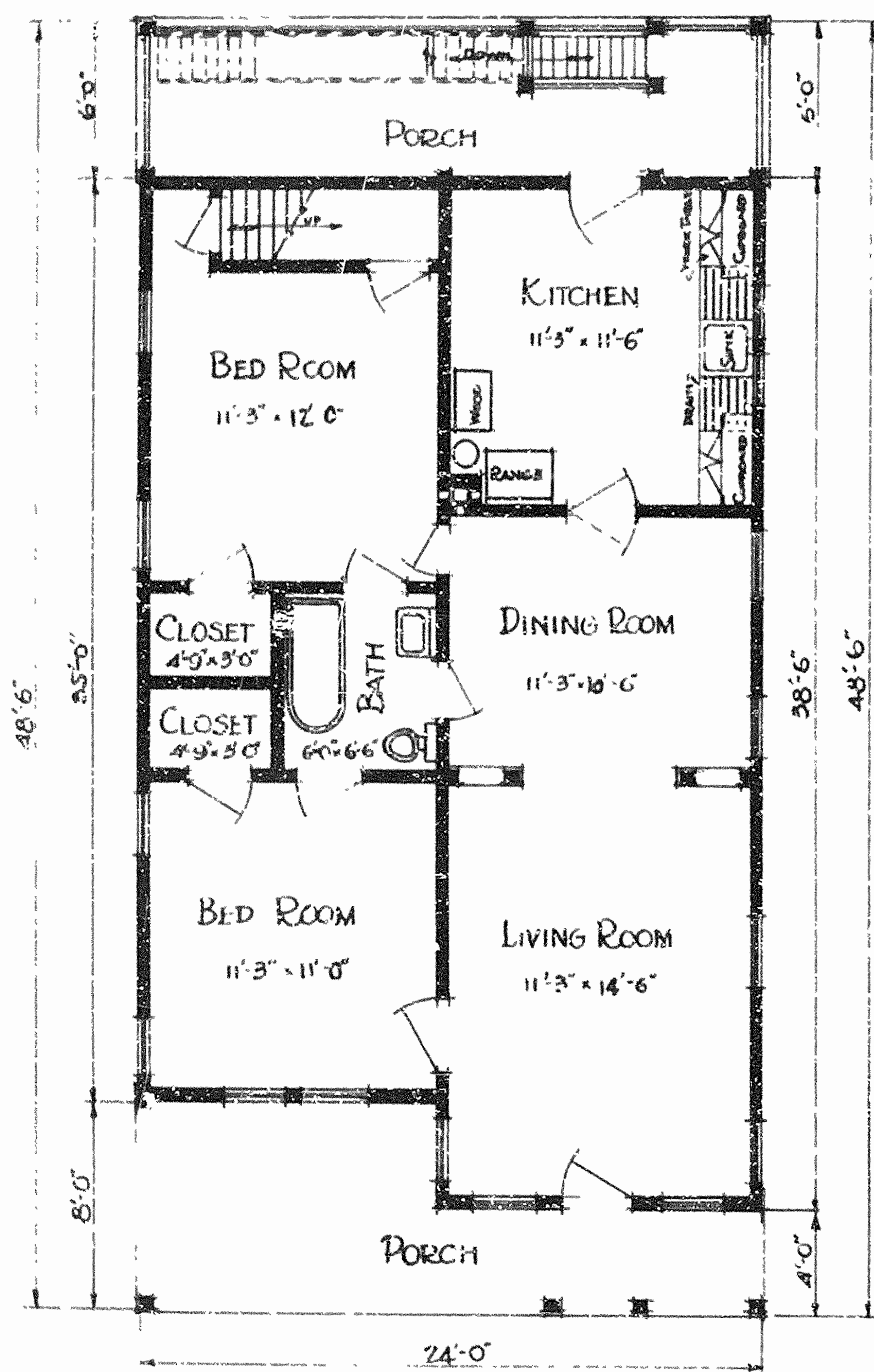


PLAN OF PILE SPACING
Scale 1"=20'-0"

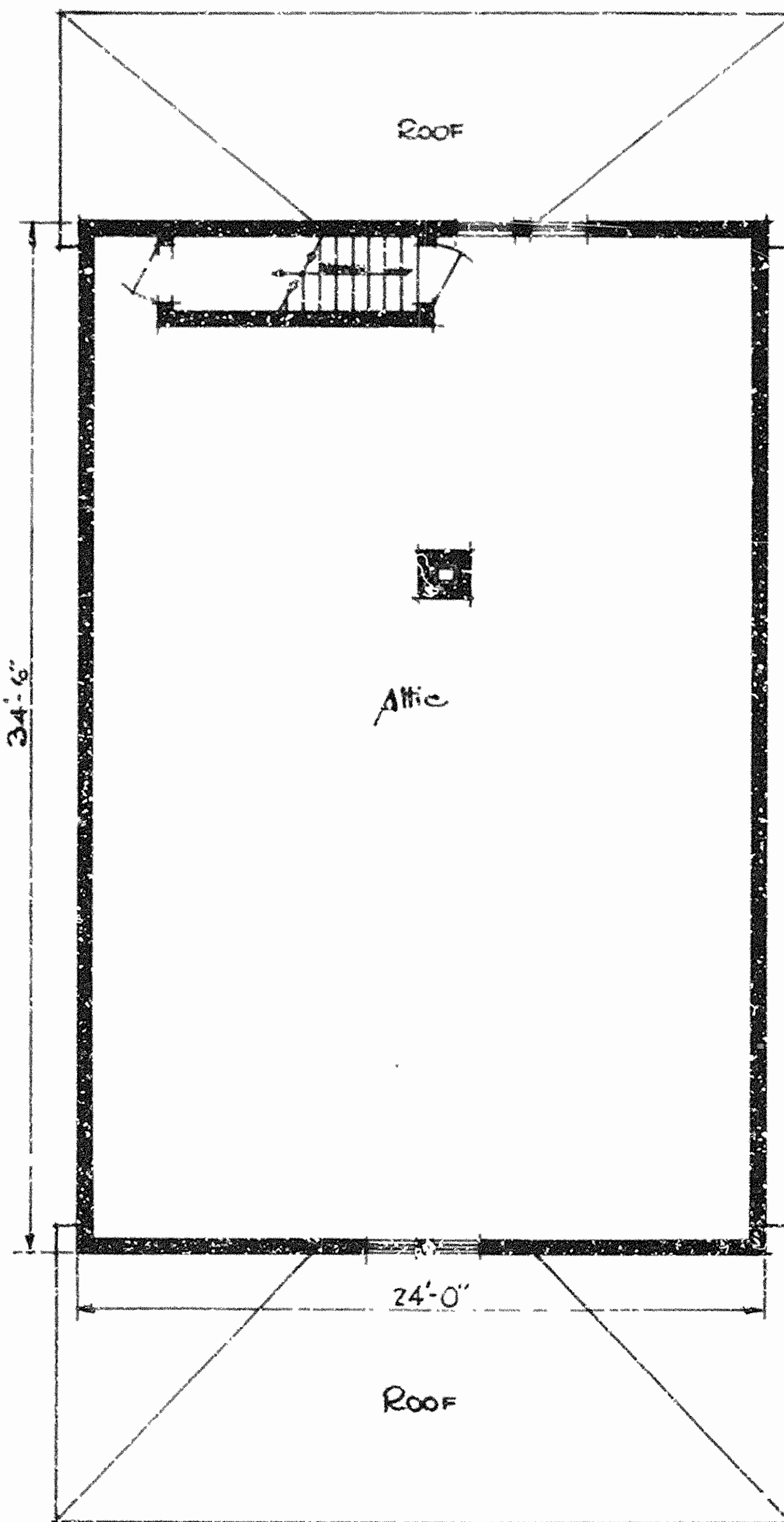


FRONT ELEVATION

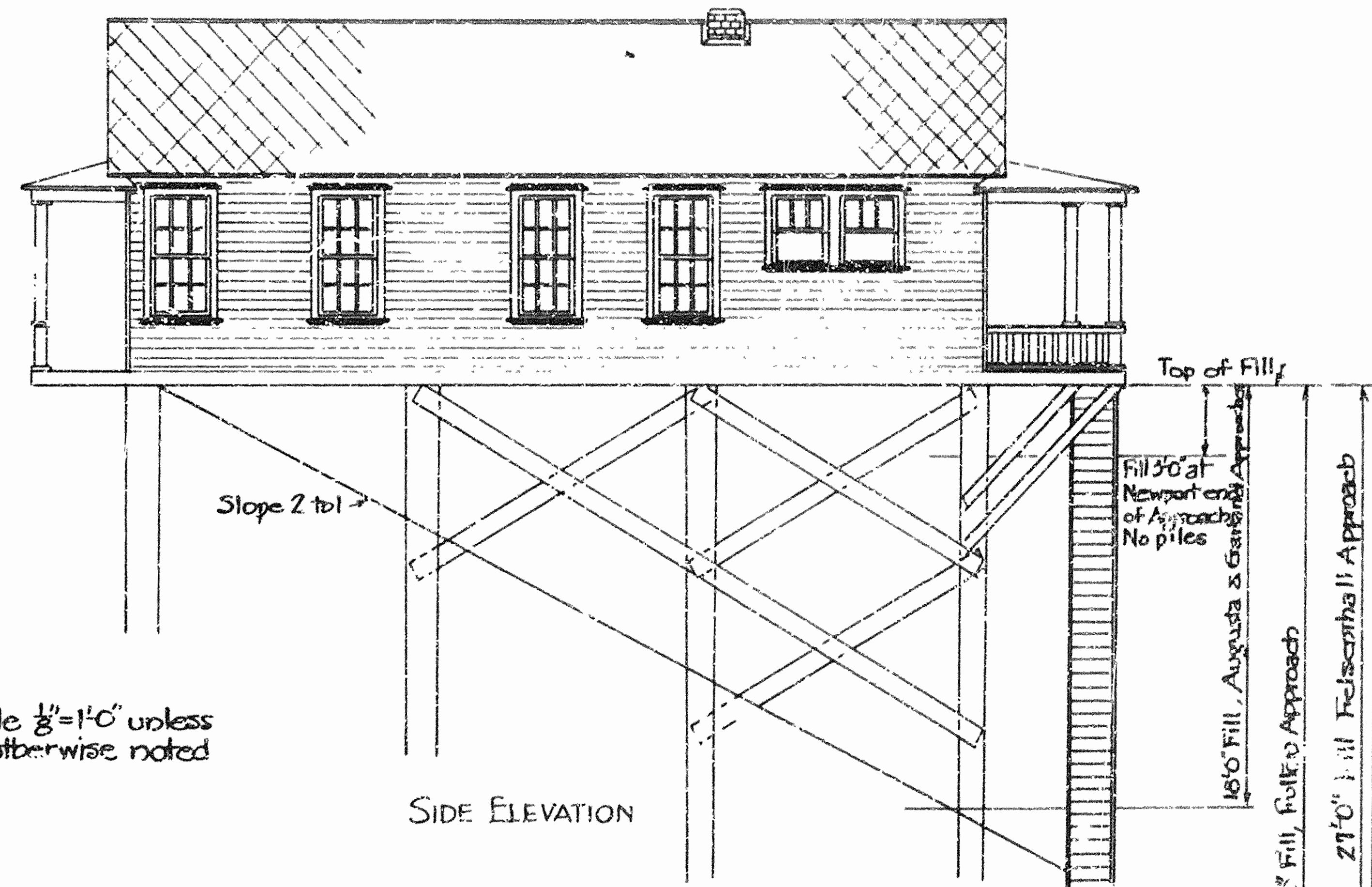
Floor joist 2x10'-16"cs.
Sill, Aprs. 2x14"
Pitch of roof 4/12
All piles and bracings to be treated with creosote.



FLOOR PLAN
Five ROOM BUNGALOW - FIRST FLOOR



ATTIC PLAN



Scale 1/8"=1'-0" unless otherwise noted

SIDE ELEVATION

ARKANSAS STATE HIGHWAY COMMISSION
TOLL TAKER'S HOUSE
STATE TOLL BRIDGES
AT
FULTON, GARLAND CITY, FELSENTHAL, NEWPORT &
AUGUSTA

VOID

IRA G. HEDRICK, Inc.
Consulting Engineers

Made by: K.F.
Date: Dec 13, 1929

DR. No. 613 DRWG. No. 4961

402

STATE OF KANSAS

1929 Sheet No. 1 of 9
Job No. 1115

KANSAS STATE HIGHWAY COMMISSION

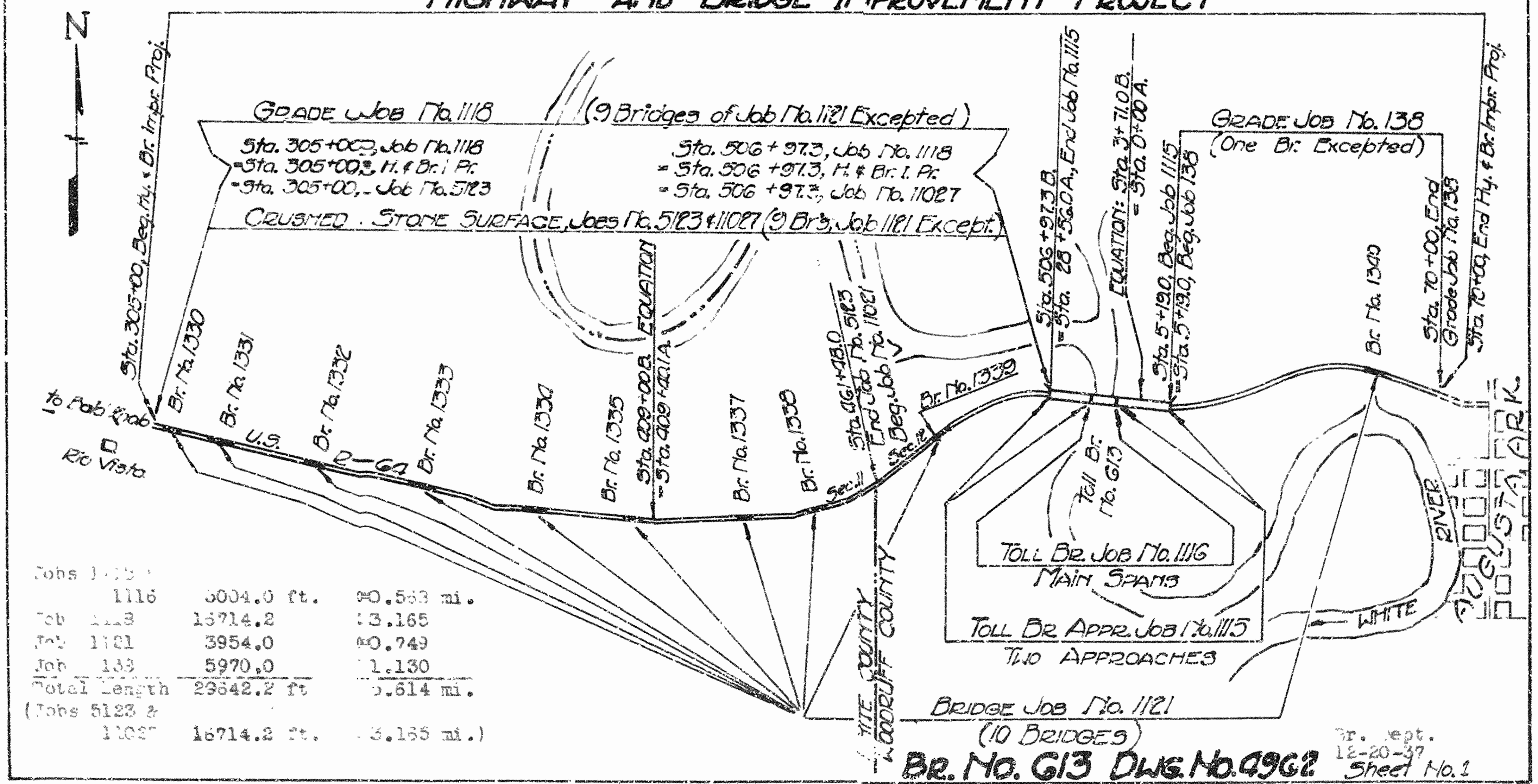
LAYOUT SHOWING

HIGHWAY & BRIDGE IMPROVEMENT
ACROSS

CROSS SECTION OF WHITE RIVER BOTTOM
U. S. Route 64 White & Woodruff Co. 111&12

Scale: 1" = 3000' - 0"

HIGHWAY AND BRIDGE IMPROVEMENT PROJECT



| | | |
|---------------------|-------------|-----------|
| Jobs 1118 & 11027 | 5004.0 ft. | 0.563 mi. |
| Job 1118 | 15714.2 | 3.165 |
| Job 11027 | 3954.0 | 0.749 |
| Job 138 | 5970.0 | 1.130 |
| Total Length | 29642.2 ft. | 5.614 mi. |
| (Jobs 5123 & 11027) | 16714.2 ft. | 3.165 mi. |

BRIDGE JOB NO. 1121
(10 BRIDGES)
BR. NO. 613 DWG. NO. 4962
Pr. Dept.
12-20-37
Sheet No. 1