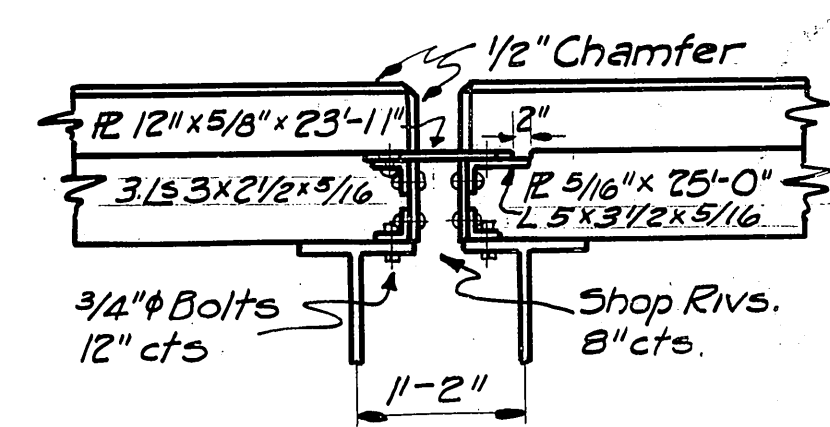
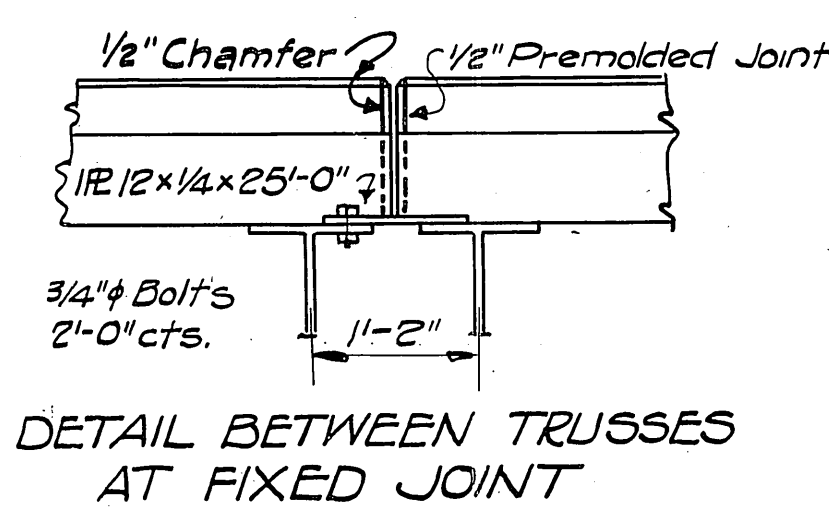
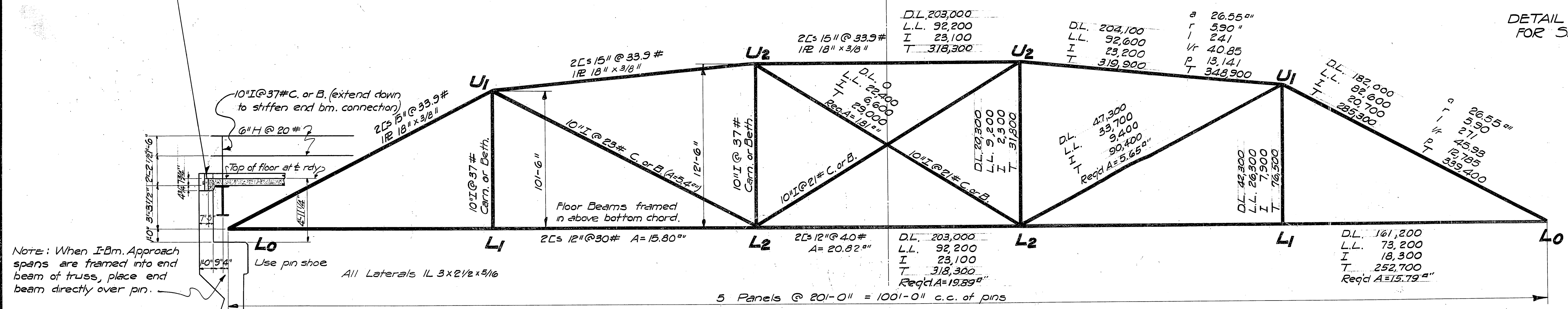


FED. ROAD DIST. NO.	STATE	PROJ. NO.	AID YEAR	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	OKLA.					
REVISED	10-12-32					
	6-6-33					
	8-1-33					
	1-21-34					



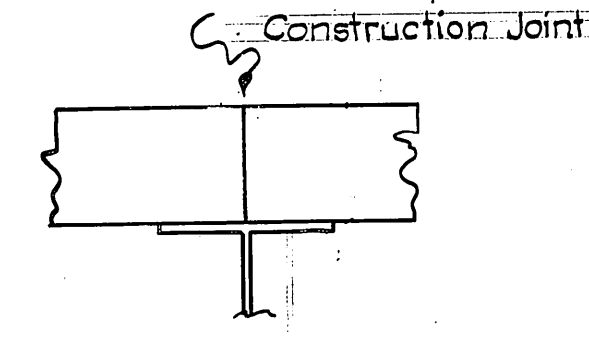
NOTE: 3" x 12" bumper added to camber of B. floor and bolted to slab as shown, with washers and 3/4" x 8" bolts spaced 2'-0" ctrs. Cost of bumper to be included in price bid for floor concrete.



Note: When I-Bm. Approach spans are framed into end beam of truss, place end beam directly over pin.

NOTE - Use 2Ls 8x4x1/2" for floor beam connections. Extend both Ls up approx. to handrail.

GENERAL ELEVATION
SCALE 1/4" = 1'-0"



LONGITUDINAL SEC.
DETAIL OF JOINT

NOTE: The contractor shall make a construction joint in the floor & curbs at each panel point by pouring the floor slab in alternate panels.

GENERAL NOTES

All concrete materials shall be handled as specified in Sec. 62.20.
All steel structural grade. All reinforcing deformed bars, cold bent. No welds permitted. Oklahoma Standard Specifications as approved by the Bureau of Public Roads, 1932.
Rivets all 3/4" except in 2 1/2" legs of angles which may be 5/8". All field rivets to be driven with a pneumatic hammer.
The basis for payment of structural steel will be the weight of the specified section. Sections of equivalent strength will be approved if requested, but no allowance will be made for increased weight.
Paint: 1932 Specifications for shop and field. Second field coat shall be aluminum paint. All painting shall be done without the use of mechanical equipment.

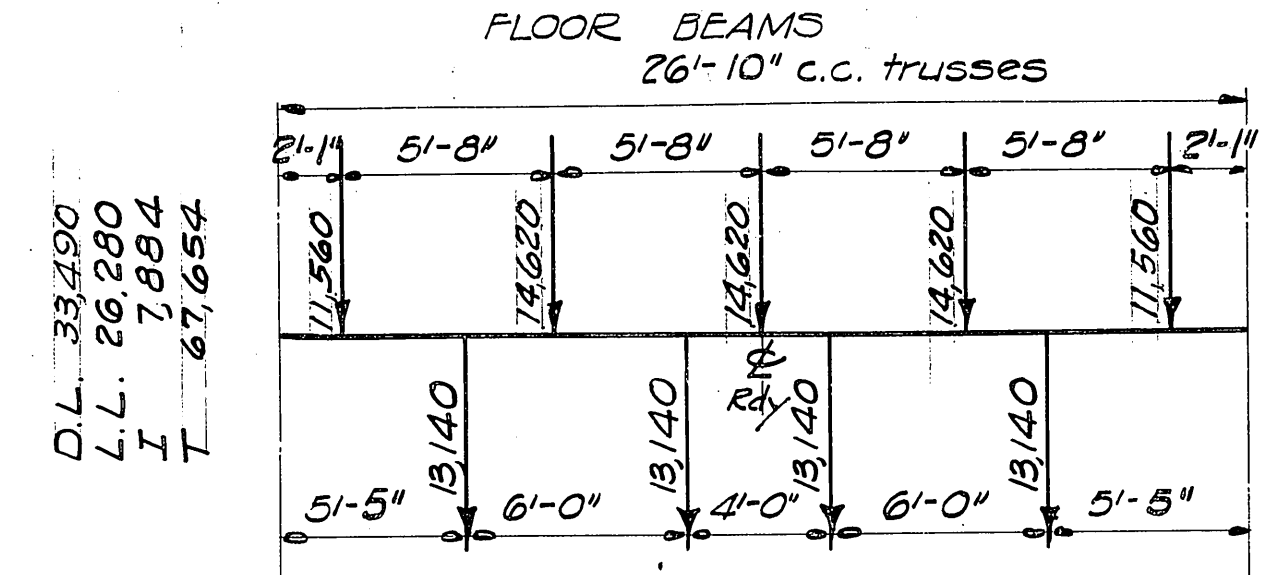
FLOOR
7 3/4" Concrete Roadway; Class "AA"; Maximum Aggregate 1 1/2"; Oklahoma Standard Specifications for Construction. Top of curb to have trowel finish, edges 1/2" chamfer and sides carborundum block. Surface of slab to have crown of 1/2" on a parabola. Floor figured for 2" wearing surface of 225 lbs. per sq. ft. Finish as per Sec. 73.05.
Rods
a' - 5/8" φ, 12" cts. - across road, top of slab, encased 1 3/4"
b' - 5/8" φ, 12" cts. - across " bottom " " 1 1/4"
c' - 5/8" φ, 12" cts. - " top & bottom of slab
d' - 4-5/8" φ in curbs
e' - 1/2" φ with roadway as shown

TRUSS LOADING
7 3/4" Concrete Floor - 2" Future Surface
7 3/4" Conc. Floor 6.458 x 150 x 25 = 2422 Lbs. per ft. of br.
Curbs 2 x 5 x 7 1/2 x 150 = 113 " " " "
Surface 22.5 x 24 = 540 " " " "
Steel = 71.55 " " " "
Total Dead Load = 4230 " " " "

PANEL LOADING
L.L. = 80 Lbs. per sq. ft. or concentrated loading as shown in Fig. No. 1, Okla. Std. Spec. Part V.
Panel D.L. = 1/2 x 4230 x 20 = 42,300 Lbs.
Panel L.L. = 80 x 12 x 20 = 19,200 "
Impact on truss = 100 S ÷ (L + 300)
" on floor & hangers = 30% of Live Load Stress

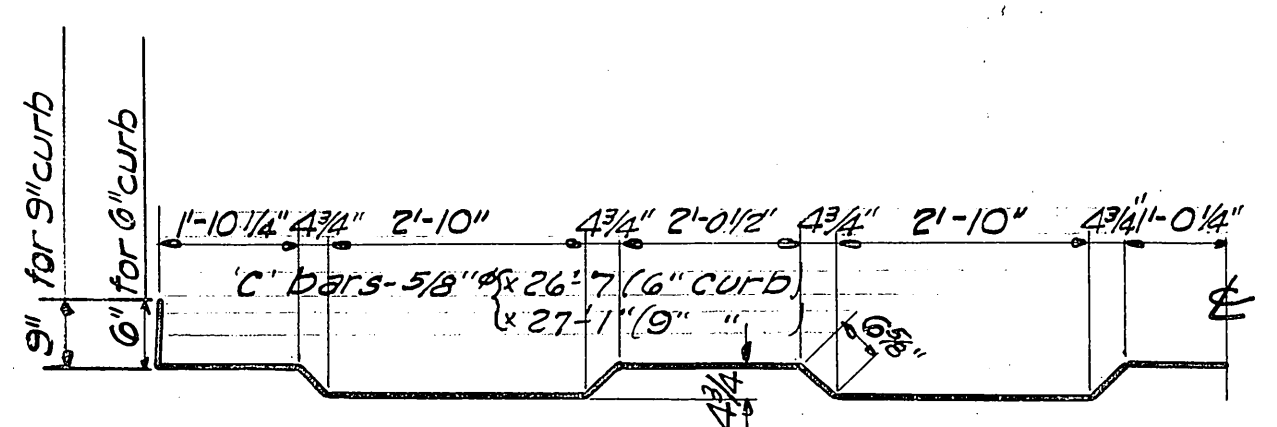
STRINGER LOADING
Floor & Surface [(6.458 x 150) + 22.5] 5.667 = 676 Lbs. per ft.
Stringer = 55 " " " "
Total D.L. = 731 " " "

D.L.M. = 731 x 10 x 9 = 731 x 3^2 x 1/2 = 36,180 Ft. Lbs.
L.L.M. = 74.80 x 9 = 67,320 "
Impact = 30% = 20,200 "
Total Moment = 123,700 "
Reqd S = 92.8
Use 18" I @ 55 # {Carn. S = 98.2
or {Beth. S = 98.2

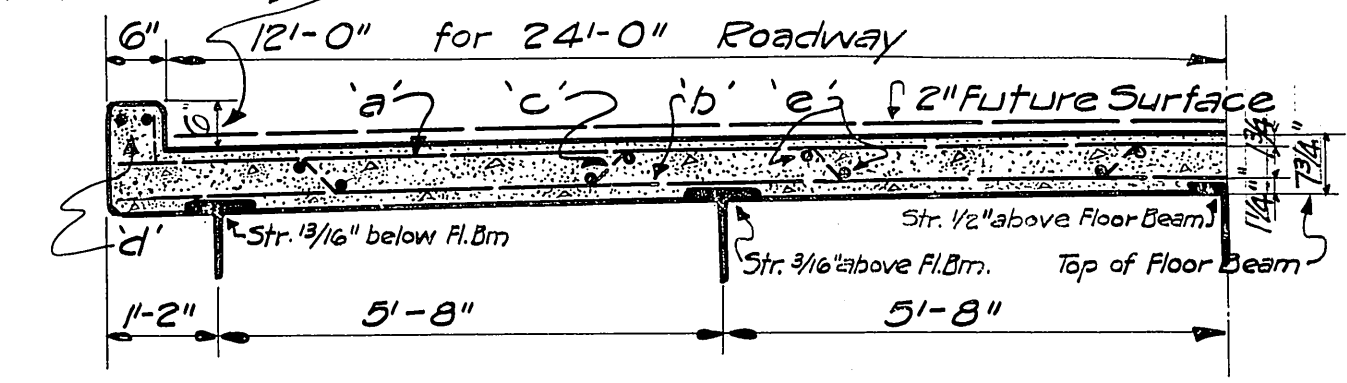


D.L. 731 x 20 = 14,620 Interior Stringer
578 x 20 = 11,560 Outside Stringer
L.L. 6600 + 10/20 x 6600 + 0/20 x 4200 = 13,140 Int. F.Bms.
L.L. 6600 + 10/20 x 6600 + 0/20 x 4200 = 12,384 End F.Bms.
D.L.M. of Brm. 1/8 x 132 x 26,833^2 = 11,880 Ft. Lbs.
D.L.M. 33,490 x 13,417 - 11,560 x 11,33 = 14,620 x 5.667 = 235,470 "
L.L.M. 26,280 x 11,417 - 13,140 x 6 = 221,190 "
Impact 30% L.L.M. = 66,360 "
Total Moment = 534,900 "
Reqd S = 401.17
Use 33" I @ 132 # {Carn. S = 413.7
or {Beth. S = 413.7

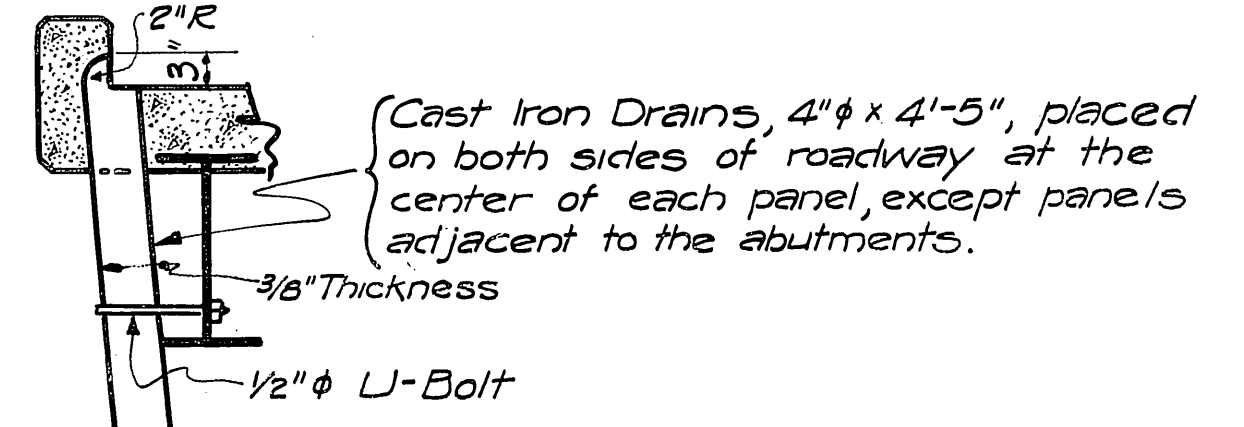
END BEAMS
D.L.M. of Brm. 1/8 x 108 x 26,833^2 = 9,720 Ft. Lbs.
D.L.M. 10,167/20 x 235,470 = 119,700 "
L.L.M. 24,768 x 11,417 - 12,384 x 6 = 208,470 "
Impact = 62,540 "
Total Moment = 400,430 "
Reqd S = 300.32
Use 30" Carn. @ 108 # S = 299.2
Beth. @ 108 # S = 299.2



Note: Curb to be 9" high when truss is used with I-Bm. spans.
Note: Reinforcing steel in floor slab shall be held in place with precast conc. blocks, spaced @ 2'-0" alternate cts, under top row of c' bars.



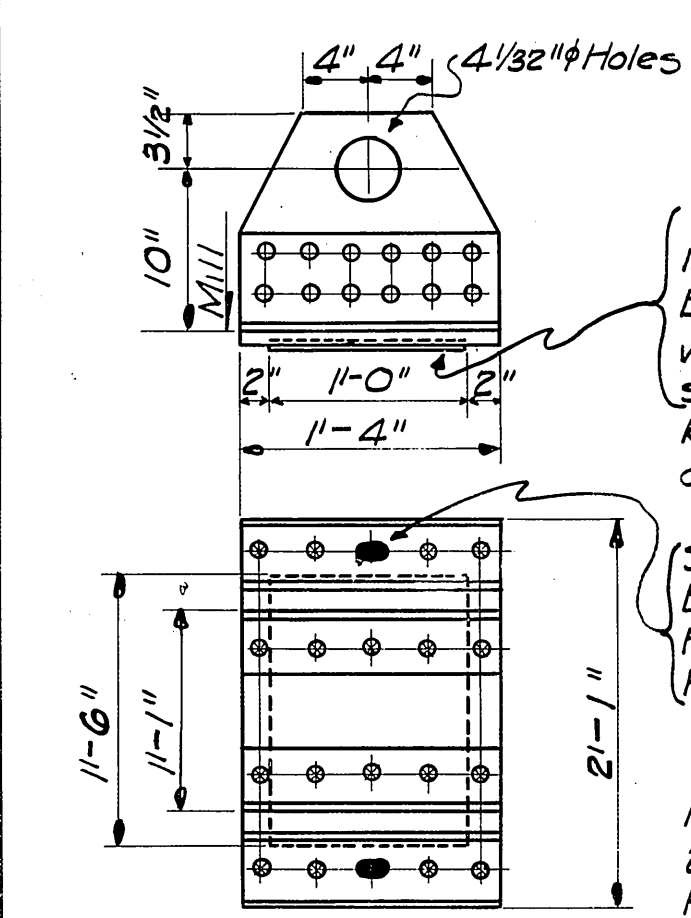
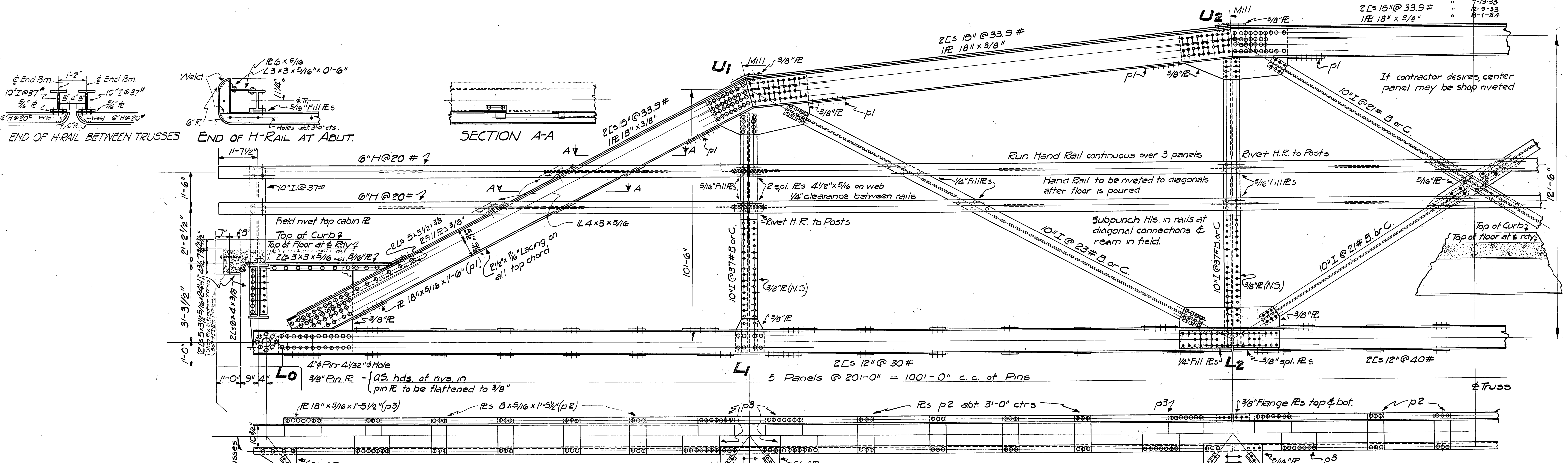
HALF SECTION THRU FLOOR
7 3/4" CONCRETE - 2" FUTURE SURFACE



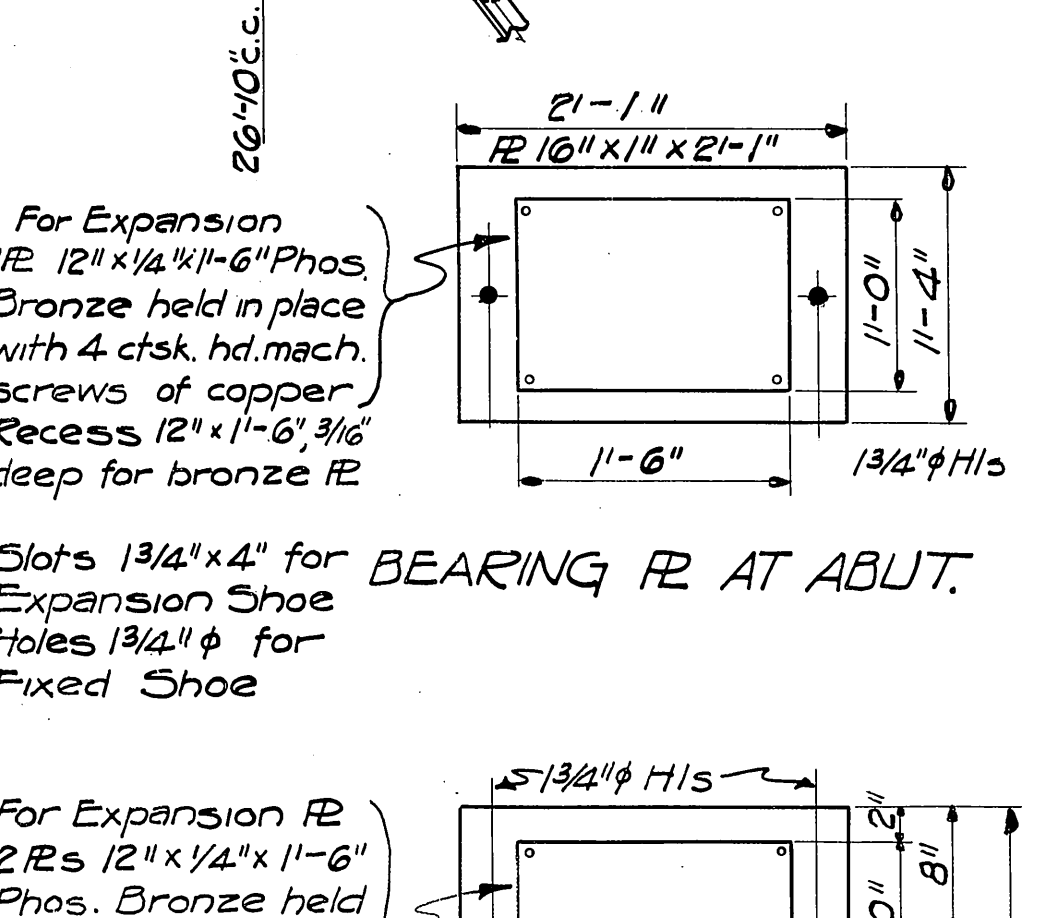
DRAINS

Designed by M.W.H. March 1932
Checked & Drawn by J.M.B. March 1932
Supervised by H.X.W. & D.I.M.

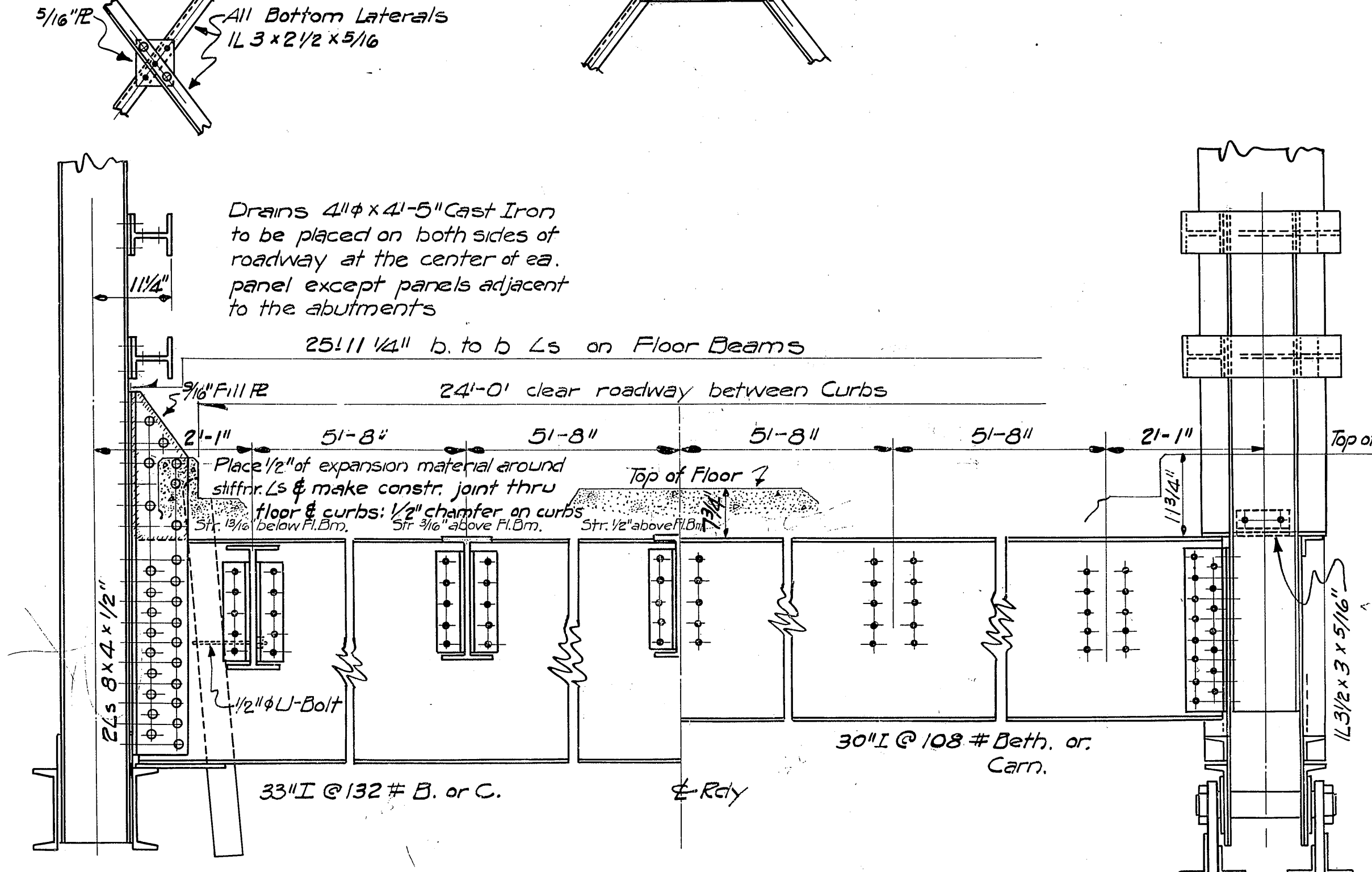
FED. ROAD DIST. NO.	STATE	AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	OKLA.				
REVISED	9-3-32				
	10-10-32				
	10-12-32				
	6-6-33				
	7-19-33				
	12-9-33				
	8-1-34				



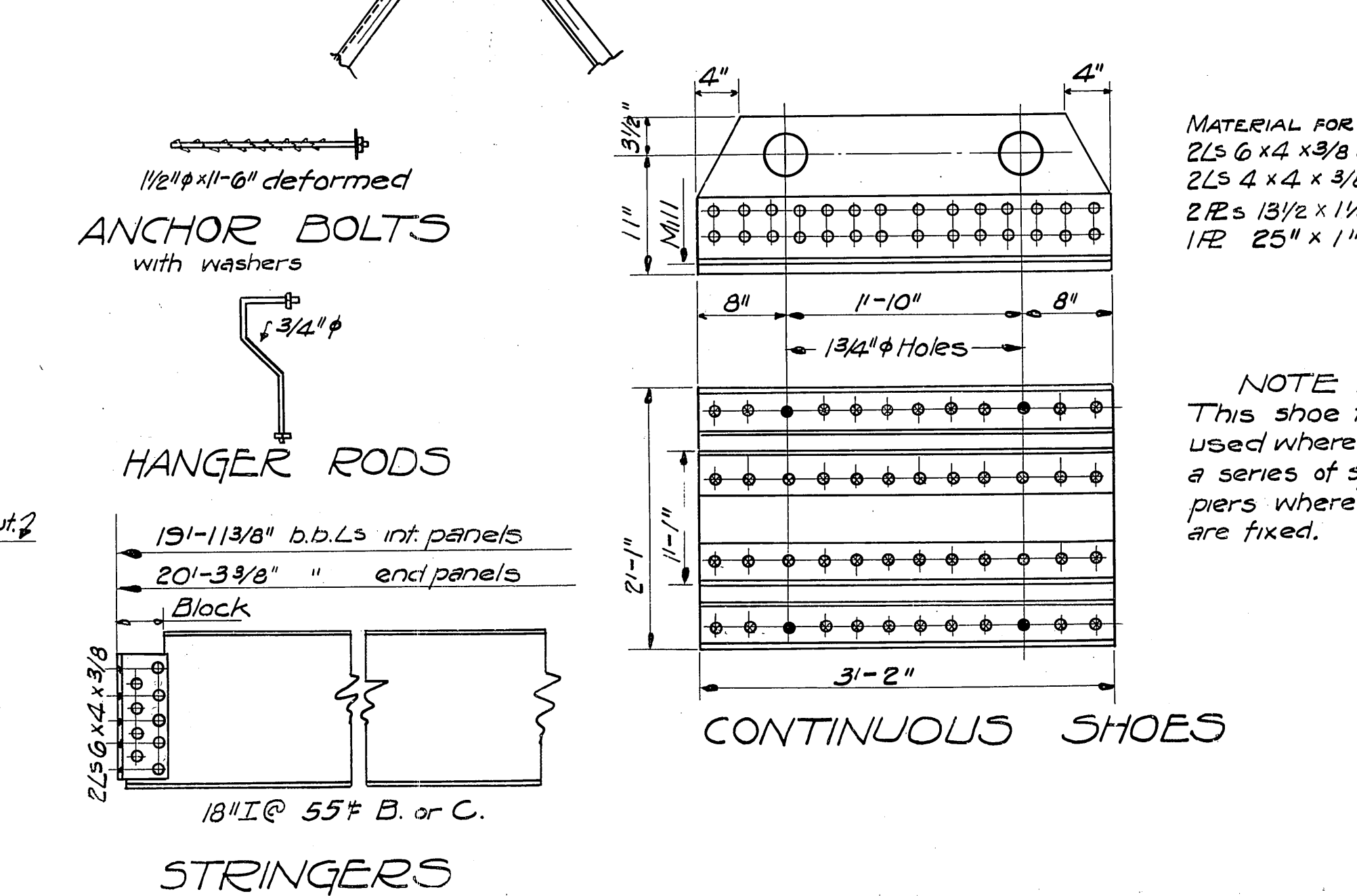
MATERIAL FOR ONE SHOE
 2Ls 6x4x3/8x11-4"
 2Ls 4x4x3/8x11-4"
 2Rs 13/2"x1/4"x11-4"
 1R 16"x11"x21-1" For Fixed Shoe
 1R 16"x7/8"x21-1" For Expan. Shoe
 1R 12"x1/4"x11-6" Phos. Bronze for Expan. Shoe



For Expansion IR 12"x1/4"x11-6" Phos. Bronze held in place with 4 ctsk. hd. mach. screws of copper. Recess 12"x11-6", 3/16" deep for bronze IR
 Slots 13/4"x4" for BEARING IR AT ABUT.
 Expansion Shoe Holes 13/4" φ for Fixed Shoe
 For Expansion IR 2Rs 12"x1/4"x11-6" Phos. Bronze held in place with 4 ctsk. hd. mach. screws of copper. Recess 12"x11-6", 3/16" deep for bronze IR



HALF INTERIOR SECTION HALF END VIEW



ANCHOR BOLTS HANGER RODS CONTINUOUS SHOES

MATERIAL FOR ONE SHOE
 2Ls 6x4x3/8x31-2"
 2Ls 4x4x3/8x31-2"
 2Rs 13/2"x1/4"x31-2"
 1R 25"x1"x31-2"

NOTE!
 This shoe to be used where there is a series of spans at piers where trusses are fixed.

Detailed by J.M.B. April 1932 Supervised by H.X.W. & D.I.M.
 Checked by M.W.H. April 1932