

PROJECT NUMBER	SECTION	STRUCTURE					SUBJECT	BRIDGE CONTRACT NO.
		NO.	TYPE	SPAN	OVER	STATION		
1							Index and Title Sheet	
2							Road Plan & Profile W.P.M.H. 74-E (Grading 1936)	
3	E	1784	Steel Truss	150'-0" x 15'-0"	Wabash River	106+46.47	Layout	
4							General Plan	
5							Spans A, B, G & H - Stress & Design Sheet	
6							Spans C, D, E, F - Stress & Design Sheet	
7							Elevs. & Tie-Up Dimensions Entire Structure	
8							Spans A & B - Erection Plan	
9							Span C - Erection Plan	
10							Span D - Erection Plan	
11							Span E - Erection Plan	
12							Span F - Erection Plan	
13							Spans G & H - Erection Plan	
14							A & B - Camber Diagram	
15							C & D - Camber Diagram	
16							E & F - Camber Diagram	
17							G & H - Camber Diagram	
18							Shoe Details	
19							Span A (50') Struct. Steel Details	
20							Spans B, G & H (90') Truss Details L ₁ to L ₂	
21							B, G & H (90') Truss Details L ₂ to L ₄	
22							B & G Details of Piers #2, 3, & 7	
23							B, G & H (90') Truss Details	
24							B, G & H (90') Floor Beams & Stringers	
25							Sidewalk Brackets	
26							Spans B, G & H - Bottom Laterals & Struts	1454
27							B, G & H - Stringers, Span B Top Chord Uplift	
28							B & G Fl. Br., FB4 & Stringer S15	
29							C, D, E & F (50') Top Chord Uplift Details U ₁ to U ₂	
30							C, D, E & F (50') Truss Details L ₁ to L ₂	
31							C, D, E & F (50') Truss Details U ₁ to U ₂	
32							C, D, E & F (50') Truss Details U ₂ to U ₃	
33							C, D, E & F (50') Truss Details U ₃ to U ₄	
34							Span C Bolt Details L ₁ to L ₂ ; Span F Bolt Details	
35							Spans C, D, E & F Floor Beams & Stringers	
36							C, D, E & F Bolt Laterals & Struts	
37							C, D, E & F Deck, Chords & F. Bolt, Slab & Sill	
38							Expansion Joints	
39							Expansion Jt. Flashings & Gutters	
40							Span A Slab & Handrail Details	
41							Spans B & G Slab & Handrail Details	
42							Span C Slab & Handrail Details	
43							Spans D & E Slab & Handrail Details	
44							Span F Slab & Handrail Details	
45							Sections & Roadway Drain Detail	
46							Slab & Handrail Bend, Diags. & Bill of Matls.	
47							Spans A, B, G & H Structural Steel Bill of Matls.	
48							C, D, E & F Bill of Matls.	
49							Span F Struct. Steel Bill of Matls - Deck, Diags. & Bill of Matls.	
50							Summary	
51							Six Inch Relay Drain - Type II (Oct. 20, 1936)	
52							Typical Cross Section - Rd. Proj. W.P.M.H. 74-E	
53							Form Expansion Joints (July 1936)	
54							Pavement Joints (Rev. July 27, 1936)	
55							Flexible Pile Guard Rail (May 1935)	
56							Miscellaneous Standards Sheet A, C, Feb. 1935	
57							Special and Drain Details & Bill of Matls. (Nov. 1935)	
58							Debris Barriercodes, etc. (Rev. Jan. 8, 1936)	

STATE OF INDIANA
STATE HIGHWAY COMMISSION

BRIDGE PLANS

FOR SPANS OVER 20 FEET

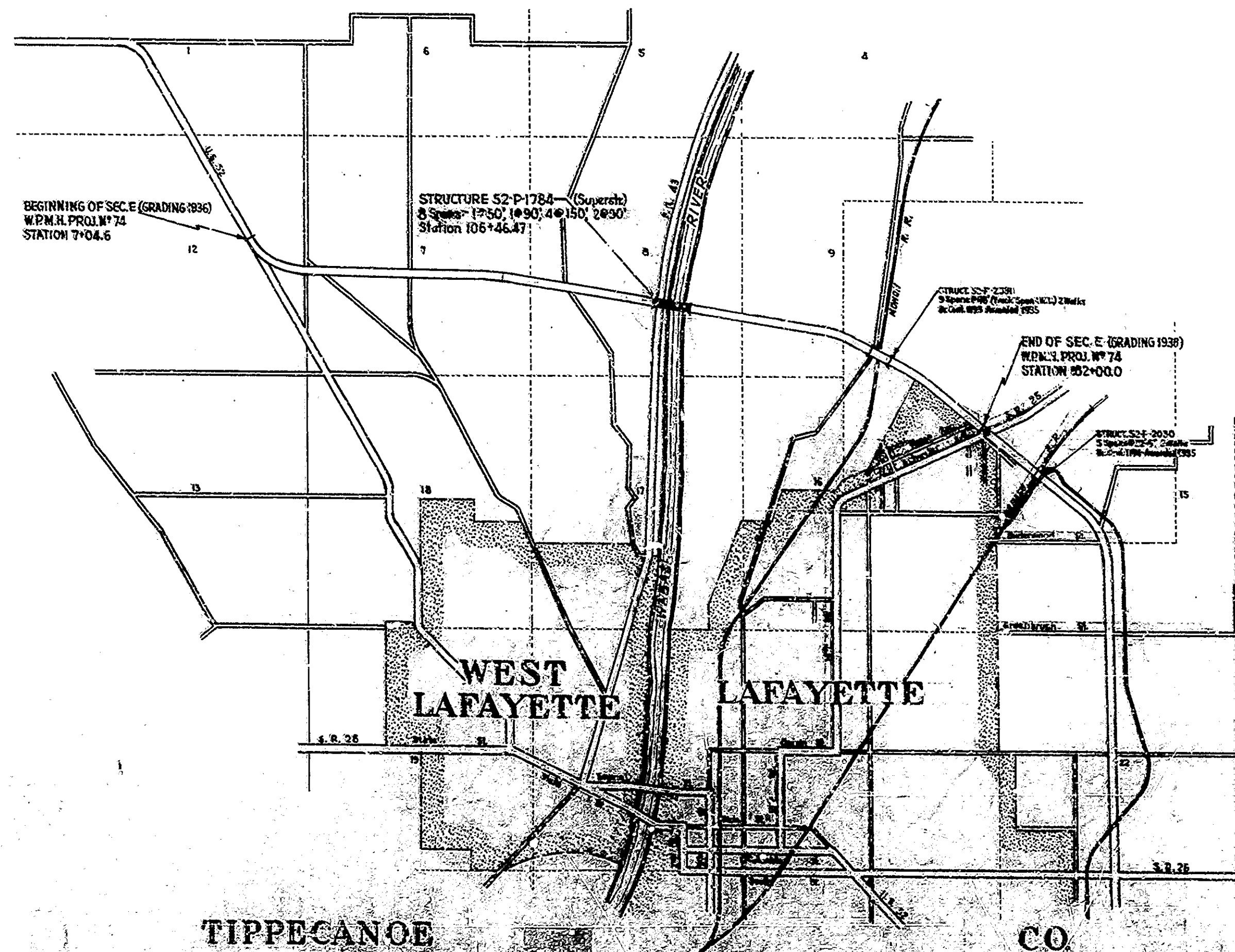
ON

F. A. PROJECT NO. 74 SEC. E (1937)

STATE ROAD NO. 52 SECTION P

SUPERSTRUCTURE OF 52-P-1784
ON 1936 GRADING PROJECT W.P.M.H. 74 SECTION E FOWLER-LEBANON ROAD
BEGINNING ON U.S. 52 APPROX. 1/4 MILES NORTHWEST OF WEST LAFAYETTE AND RUNNING EAST AND SOUTHEAST
TO A POINT JUST EAST OF THE INTERSECTION OF MONON AVENUE AND LEVERING AVENUE IN LAFAYETTE IN
TIPPECANOE COUNTY.

GROSS LENGTH=3.313 MI. MAX. GRADE=6.00%
BRIDGE LENGTH=0.196 MI.
NET LENGTH=3.313 MI.



Scale 1"=2000'

PLANS FOR SUPERSTRUCTURE STR. 52-P-1784
APPROVED AND ADOPTED OCTOBER 22, 1936
BY STATE HIGHWAY COMMISSION OF INDIANA

APPROVED OCTOBER 22, 1936
RECOMMENDED FOR APPROVAL
RECOMMENDED FOR APPROVAL
APPROVED

INSTRUCTIONS AND DATA FOR SETTING

EXPANSION ROCKERS (PAGE 2 & 3)
TOOTHED ROADWAY SLAB EXPANSION JOINTS (PAGE 4)

BITUMINOUS EXPANSION JOINTS AT BENT NO. 1 AND ABUTMENT NO. 9 (PAGE 5)
EXPANSION JOINTS IN SIDEWALK, HANDRAIL, AND COPING (PAGE 6)

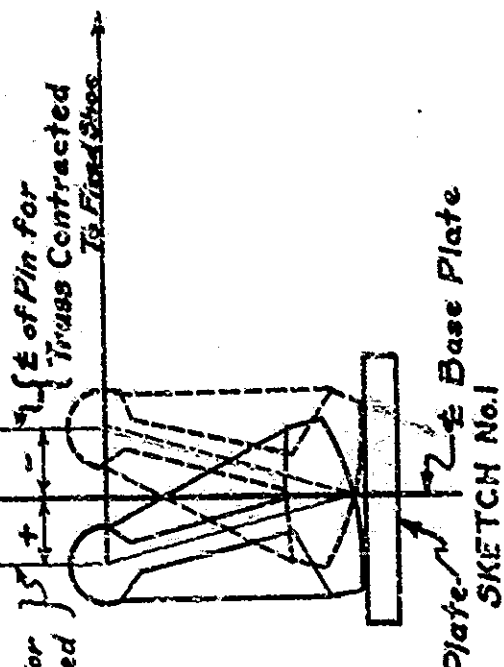
BR. CONT. - 1454

NOTE: These instructions and data supersede the parts of the "Joint Legend" on the General Plan, Drawg 52 which refer to joints B, C, D, and E.

Page 1.

INSTRUCTIONS FOR SETTING EXPANSION ROCKERS
 See Page 3 For Table Of Data.

1/4" of Pin for 1/2" of Truss Expanded 1/2" of Pin for Truss Contracted To Fixed Shoe.



When distance in table of data is (0), set 1/2 of base plate directly under 1/2 of pin.
 When distance in table of data is (-) set 1/2 of base plate as shown in sketch for truss contracted.
 When distance in table of data is (+) set 1/2 of base plate as shown in sketch for truss expanded.

The term "Fixed Shoe" on Sketch No. 1 refers to the fixed shoe from which the rocker in question works, and may or may not be in the same span. See Sketch No. 2 to determine the fixed shoe for each expansion shoe.

Span	Span 'D'	Span 'C'	Span 'B'	Span 'A'	Span 'E'	Span 'F'	Span 'G'	Span 'H'
Bent #1	0	0	0	0	0	0	0	0
Pier #2	0	0	0	0	0	0	0	0
Pier #3	0	0	0	0	0	0	0	0
Pier #4	0	0	0	0	0	0	0	0
Pier #5	0	0	0	0	0	0	0	0
Pier #6	0	0	0	0	0	0	0	0
Pier #7	0	0	0	0	0	0	0	0
Pier #8	0	0	0	0	0	0	0	0
Abut #9	0	0	0	0	0	0	0	0

Page 2.

TABLE OF DATA FOR SETTING EXPANSION ROCKERS
 See Page 2 For Instructions

Horizontal Distance from Base Plate to Pin At Given Temp. Of Air	Temperature (°F)												
	0	10	20	30	40	50	60	70	80	90	100	110	120
TABLE I Truss On Falsework	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0
TABLE II Truss Carrying Own Weight Only	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0
TABLE III Truss Carrying Full DL (Wind, Colling, etc.)	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0

Page 3.

INSTRUCTIONS FOR ADJUSTMENTS OF TOOTHED EXPANSION JTS. IN FLOOR SLAB AT PIERS #4,5,&6.

Lateral gaps (a) between teeth should be equal at any given temperature.
 Longitudinal gap (b) varies with temperature and span.
 Vertical adjustment necessary to bring teeth flush on top surface should be made by inter-changing thickness of fills E₁ & E₂ under Expansion Joints E₁ & E₂ (See drawings 535 & 536 for details).

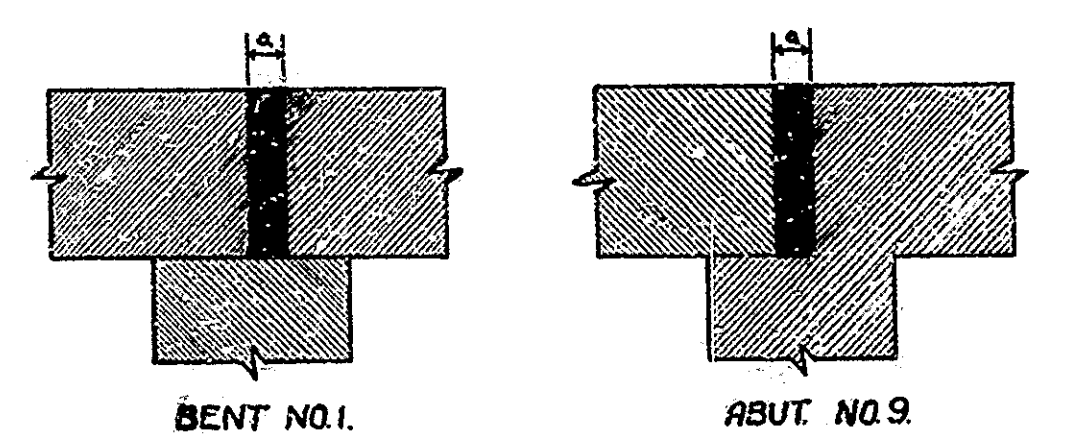
Lateral adjustment to insure equal spacing of teeth should be made by means of slots in Bott. of Exp. Joints E₁.
 Longitudinal adjustment to be made by means of slots in stringers ends supporting Expansion Joints, using distance "b" for prevailing temperature, as shown below.
 Make adjustment after falsework is removed and before floor slab is poured.

Pier	Distance b To Setting Teeth Plates At Prevailing Temp. Of Air												
	0	10	20	30	40	50	60	70	80	90	100	110	120
#4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
#5-6	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4



Page 4.

INSTRUCTIONS FOR SETTING BITUMINOUS EXPANSION JTS. AT BENT NO. 1 & ABUTMENT NO. 9.

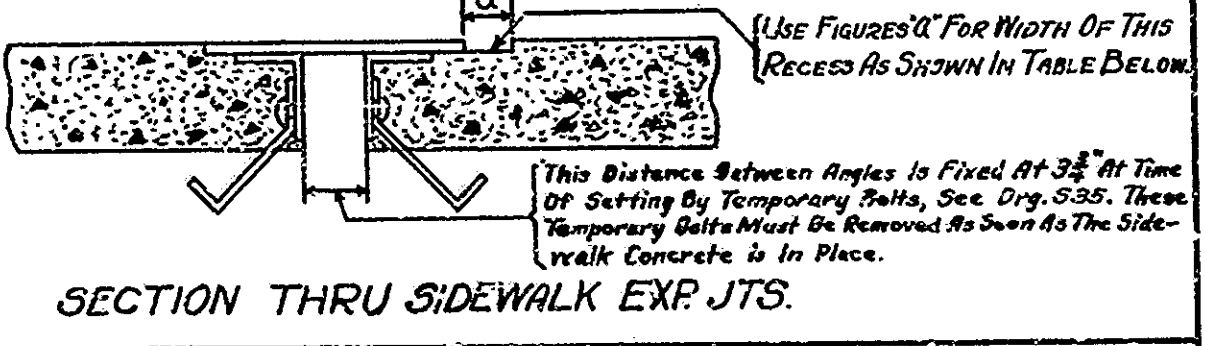


Location Of Joint	Distance d Shows Required Thickness Of Bit. Exp. Jt. At Prevailing Temp.												
	0	10	20	30	40	50	60	70	80	90	100	110	120
Bent #1	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2
Abut #9	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2

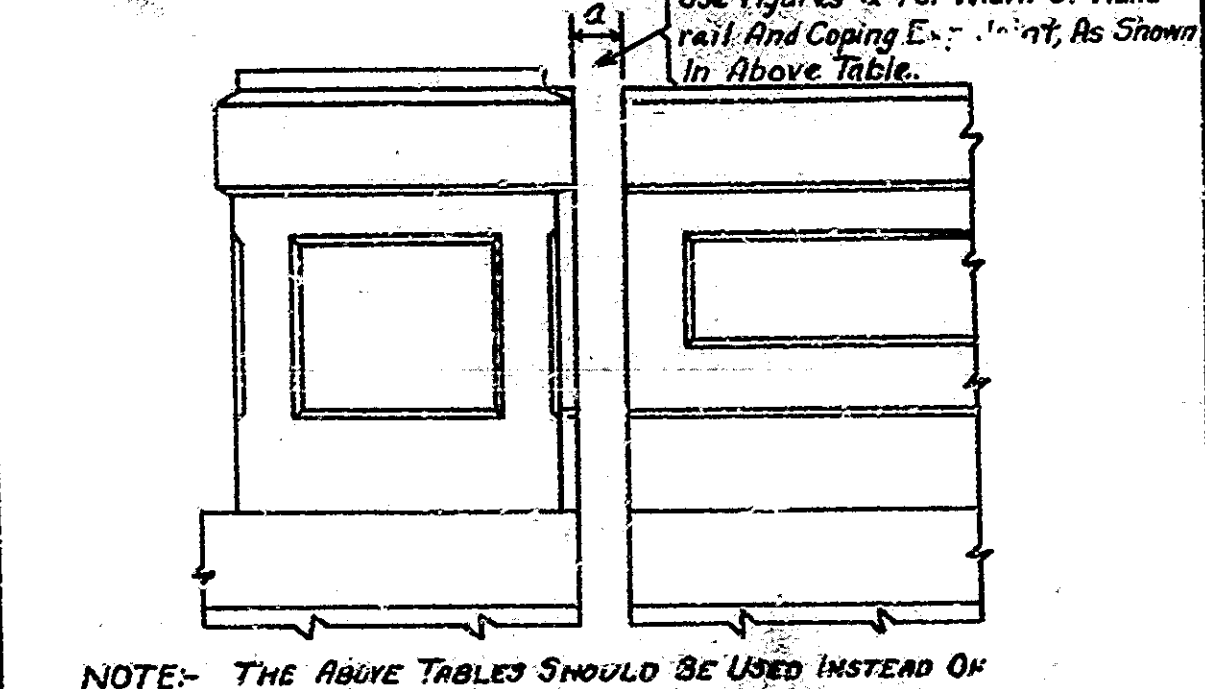
NOTE: - This Table Should Be Used Instead Of Following The Note On DRG. 52 Regarding Joint "E".

Page 5.

INSTRUCTIONS FOR SETTING SIDEWALK, COPING, AND HANDRAIL EXPANSION JTS.



Location Of Joint	Distance d For Setting Sidewalk And Rolling Exp. Jts. At Prevailing Temp.												
	0	10	20	30	40	50	60	70	80	90	100	110	120
Bent Pier 4	4	3 1/2	3 1/4	3 1/4	3	2 3/4	2 3/4	2 1/2	2 1/2	2 1/4	2 1/4	2 1/4	2 1/4
Abut Pier 5	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2
At Abut 9	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2



Page 6.

INSTRUCTIONS AND DATA FOR SETTING EXPANSION ROCKERS

(PAGES 2 & 3)
TOOTHED ROADWAY SLAB EXPANSION JOINTS (PAGE 4)
BITUMINOUS EXPANSION JOINTS AT BENT NO. 1 AND ABUTMENT NO. 9 (PAGE 5)
EXPANSION JOINTS IN SIDEWALK, HANDRAIL, AND COPING (PAGE 6)

NOTE: THESE INSTRUCTIONS AND DATA SUPERSEDE THE PARTS OF THE "JOINT LEGEND" ON THE GENERAL PLAN DRAWING 52 WHICH REFER TO JOINTS "B", "C", "D" AND "E".

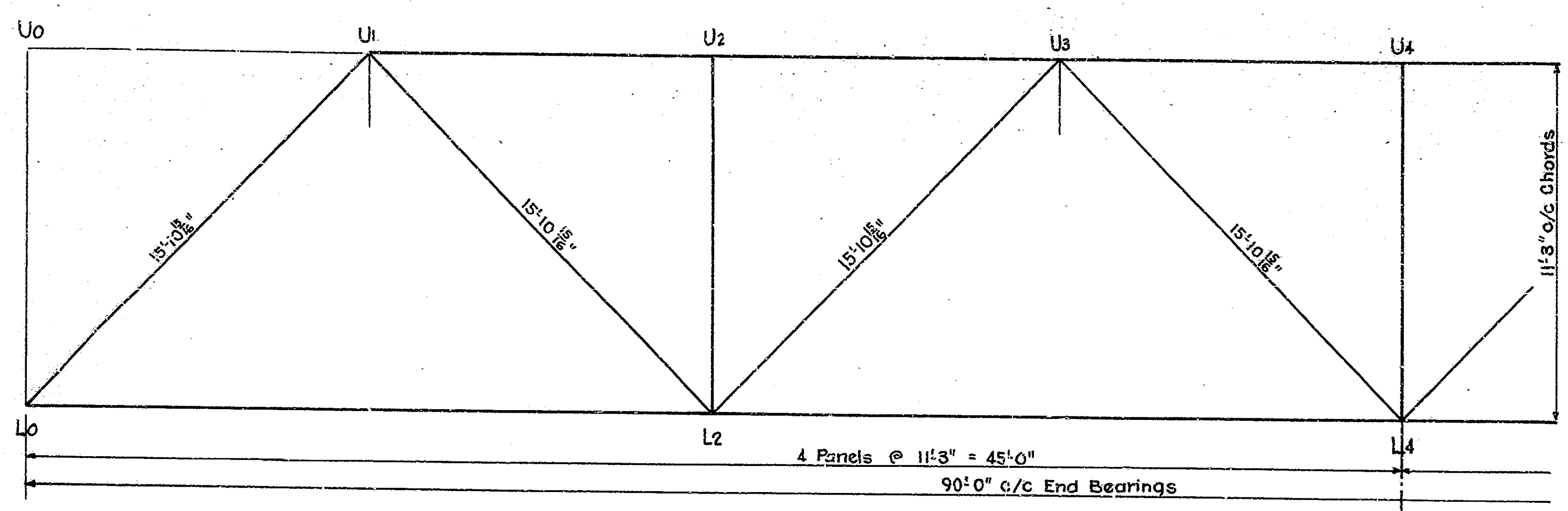
STEEL TRUSS BRIDGE
 8 SPANS #50, #90, 4#150, 2#90' 2 WALKS & 30' ROADWAY OVER WABASH RIVER & ST. RD. NO. 43 ON STATE ROAD - 52 - P

STATE HIGHWAY COMMISSION OF INDIANA
TIPPECANOE COUNTY

SCALE - NONE FEBRUARY 23, 1937
 RECOMMENDED FOR APPROVAL: [Signature]

PROJECT - F.A. 74 STATION - 106+46.47
 SECTION - E STRUCTURE NO. 1784
 PAGE 1 OF 8

BRIDGE CONTRACT NO. 1454



50'-0" BEAM SPAN

	MAX. REACTIONS		
	INTERIOR BM.	CURB BM.	OUTSIDE BM.
D.L.	17,580	19,800	28,870
L.L.	56,900*	40,640*	3,830
IMP. 28.6%	16,270*	11,620*	1,090
SWLL.	1,820	1,820	4,440
TOTAL	90,750*	73,880*	38,230

	MAX. MOMENTS		
	D.L.	L.L.	IMP.
D.L.	218,130	245,630	355,310
L.L.	495,080*	197,160	41,960
IMP.	141,590*	56,390	12,000
SWLL.	22,950	22,950	55,170
TOTAL	854,800*	522,130	464,440*

33" WF 125 ic = 385.1
 * Denotes Double Live Load.

ELEVATION OF 90'-0" TRUSS

PAGE NUMBER COMPUTATION	MEMBER	PRIMARY STRESSES					SECTION	PROPERTIES				AREA REQ'D Compression Members	AREA REQ'D Tension Members	AREA GIVEN		UNIT STRESS #/in ²			Allowable Direct Stress	Connection Stress	DETAILS			
		D.L.	S.W. LL.	RDWY LL.	IMPACT	TOTAL		L-in	T-in	l/r	Weight Lbs. Per Ft.			Gross	Net Area End	Direct	Bending	Combined						
Stress 942 Section 931	U0 U1	(This member serves only as a stringer)					TOP CHORD	2-15" Es @ 33.3"	135			80			19.80	0	0	0	9,305	9,305	18,000		Battens Top & Bottom 1-Pl. 20"x 3/8" x 0'9" 3"	
Stress 942 Section 928	U1 U2 U3	-210,000	-15,780	-107,810	-25,120	-358,710	2-15" Es @ 33.3"	135	6.55	20.6	121	27.51		33.80	0	0	10,613	1,852	12,465	13,041	440,785		End Battens 1-Pl. 20"x 3/8" x 2'0"	
Stress 942 Section 932	U3 U4 U5	-280,000	-21,040	-143,750	-33,490	-478,280	2-15" Es @ 33.3"	135	6.61	20.5	147	37.64		41.28	0	0	11,586	2,188	13,774	12,708	524,860		Double Lacing bars 4" x 1/2" x 2'4"	
Stress 942 Section 908	L0 L2	+122,500	+9,205	+62,890	+14,655	+209,250	BOTTOM CHORD	12" W @ 53"	270	2.48	109.0	53		15.59	4-1/8"	13.29	15,750	1,874	17,624	16,126	214,250			
Stress 942 Section 910	L2 L4 L2	+262,500	+19,725	+134,765	+31,400	+448,390	12" W @ 106"	270	3.11	87.0	106		27.07	31.19	4-1/8"	27.25	16,457	1,434	17,891	16,566	451,357			
Stress 942 Section 913b	L0 U1	-173,240	-13,020	-104,144	-24,266	-314,670	DIAGONALS	4 Ls 7"x4"x 1/2"	191	3.14	61.0	88	23.72		25.31	0	0	12,431	804	13,235	13,266	335,762		
Stress 942 Section 914	U1 L2	+123,740	+10,320	+83,400	+20,440	+237,900	12" W @ 58"	191	2.51	76.0	58		13.64	17.06	4-1/8"	14.5	16,407	561	16,968	17,440	253,000			
Stress 942 Section 915	L2 U3	-74,250	-7,970	-64,615	-16,785	-163,620	12" W @ 50"	191	1.96	92.5	50	14.70		14.71	0	0	11,123	1,492	12,615	11,134	163,780			
Stress 942 Section 920a	U3 L4	+17,325	+3,600	+32,900	+7,450	+57,275	12" W @ 40"	191	1.94	98.4	40	7.23		11.77	4-1/8"	9.71	12,930	899	13,830	17,440	149,310			
Stress 942 Section 922a	At Pier No. 2 U0 L0	-100,160	-8,600	-70,050	-18,780	-197,590	VERTICALS	12" W @ 50"	108	1.96	55.1	50	13.87		14.71	0	0	13,430	0	13,430	14,240	209,470		These Verticals increased to 40" in order to use wide gage in flgs.
Stress 942 Section 922b	Typical U0 L0	-17,510	-1,700	-45,455	-16,685	-81,350	12" W @ 40"	135	1.94	70.0	40	6.95		11.77	0	0	8,130	0	8,130	13,775	162,100			
Stress 942 Section 922	U2 L2 U4 L4	-35,030	-3,390	-50,985	-17,285	-106,690	12" W @ 40"	135	1.94	70.0	40	8.48		11.77	0	0	9,900	0	9,900	13,775	162,100			

SHOE REACTIONS

PIERS #8 & #9	PIER #2	PIERS #3 & #7
TYPICAL 90'-0" SPAN	BEAM SPAN & 90'-0" SPAN	90'-0" SPAN & 150'-0" SPAN
D.L. = 145,000	D.L. = 234,800	D.L. = 402,500
S.W.L.L. = 10,170	S.W.L.L. = 13,350	S.W.L.L. = 19,490
L.L. = 84,150	L.L. = 108,720	L.L. = 157,860
IMP. = 19,610	IMP. = 20,550	IMP. = 21,630
TOTAL = 258,930	TOTAL = 377,420*	TOTAL = 601,480*

90'-0" TRUSS SPAN

INTERMEDIATE FLOOR BEAM

	Max. Mom. (K.Lbs.)	Max. Shear (K.Lbs.)
Dead Load	38410	13230
Live Load	480000*	80000*
Impact (25.5%)	161040*	26040*
Design	679450*	129070*
	30W116, 2-3219	

END FLOOR BEAM

	Max. Mom. (K.Lbs.)	Max. Shear (K.Lbs.)
Dead Load	20920	2760
Live Load	519250*	86400*
Impact (26.7%)	190570*	31800*
Design	735740*	126560*
	30W116, 2-3219	

ROADWAY STRINGER

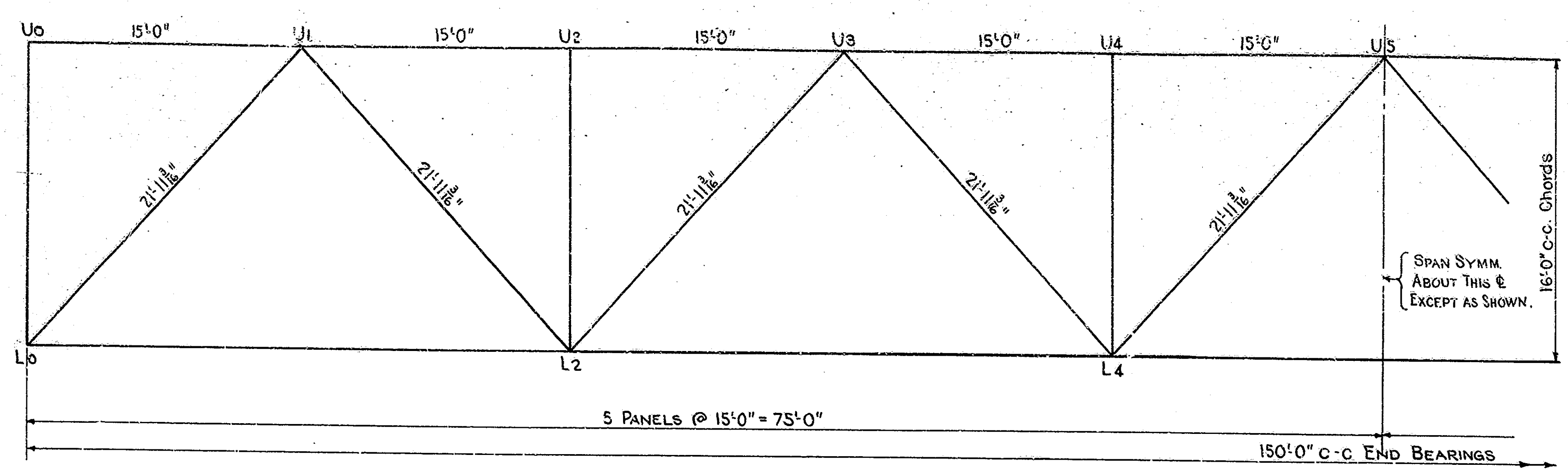
	Max. Mom. (K.Lbs.)	Max. Shear (K.Lbs.)
Dead Load	3670	2760
Live Load	63560*	59960*
Impact (26.7%)	21330*	14300*
Design	90560*	59960*
	14W24, 2-418	

* Denotes Double Live Load

NOTE:-
 See Dwg. S4 for
 "Data used for Design & Details"

SPANS A, B, G, & H STRESS AND DESIGN SHEET
 STATE HIGHWAY COMMISSION OF INDIANA

SCALE:- NONE
 RECOMMENDED FOR APPROVAL: [Signature]
 OCTOBER 20 1936
 PROJECT:- FA.74
 SECTION:- E
 DRAWING:- 53 OF 47
 STATION:- 106+46.47
 STRUCTURE NO. 1784
 BRIDGE CONTRACT NO. 1454



**150'-0" TRUSS SPAN
INTERMEDIATE FLOOR BEAM**

Dead Load	Max. Mom. (Ft.Lbs.)	Max. Shear (Lbs.)
	45560	21000
Live Load	487980 *	81330 *
Impact (325%)	163720 *	27290 *
Design	697260 *	129620 *
	30W116, E-3279	

END FLOOR BEAM

Dead Load	Max. Mom. (Ft.Lbs.)	Max. Shear (Lbs.)
	32730	12590
Live Load	528000 *	88000 *
Impact (35.7%)	188500 *	31420 *
Design	743280 *	132010 *
	30W116, E-3279	

ROADWAY STRINGER

Dead Load	Max. Mom. (Ft.Lbs.)	Max. Shear (Lbs.)
	6470	3150
Live Load	84670 *	39600 *
Impact (36.0%)	30230 *	14260 *
Design	121370 *	57010 *
	16W36, E-563	

SHOE REACTIONS

PIERS #4-5-6	PIERS #3 & 7
TYPICAL 150'-0" SPAN	90'-0" SPAN & 150'-0" SPAN
D.L. = 257,900	D.L. = 402,500
S.W.L.L. = 13,950	S.W.L.L. = 19,490
L.L. = 113,640	L.L. = 157,860
IMP. = 20,680	IMP. = 21,630
TOTAL = 406,170 #	TOTAL = 601,480 #

**ELEVATION OF
150'-0" TRUSS**

* Denotes Double Live Load.

DATA USED FOR DESIGN AND DETAILS

Live Load - H20 with impact, with distribution of loads in accordance with 1935 A.R.S.H.C. Specifications. In addition, when the stress due to traffic live load (including impact) exceeds the stress due to dead load (plus sidewalk live load if any), the traffic live load stresses are doubled and the member designed for a unit stress 50% greater than for single live load.

Dead Load - Actual weight of structure plus 15# per square foot of roadway to provide for future wearing surface.

Slab - Designed for single live load only and with 4" monolithic wearing surface.

Truss Members - Top chords designed for direct stress plus bending stress due to stringer action. Other members designed for direct stress plus bending due to their own weight.

Unit Stresses - (For Single Live Load)

- Structural Steel - Tension = 18000 # per sq. in.
- Structural Steel - Compression = 15000 # per sq. in.
- Shear on Rivets = 12000 # per sq. in.
- Stl. Steel Bearing - Including Rivets = 24000 # per sq. in.
- Bearing - Shoes on Masonry = 600 # per sq. in.
- Concrete - Compression = 900 # per sq. in.
- Reinforcing Steel - Tension = 18000 # per sq. in.

- Compression
+ Tension

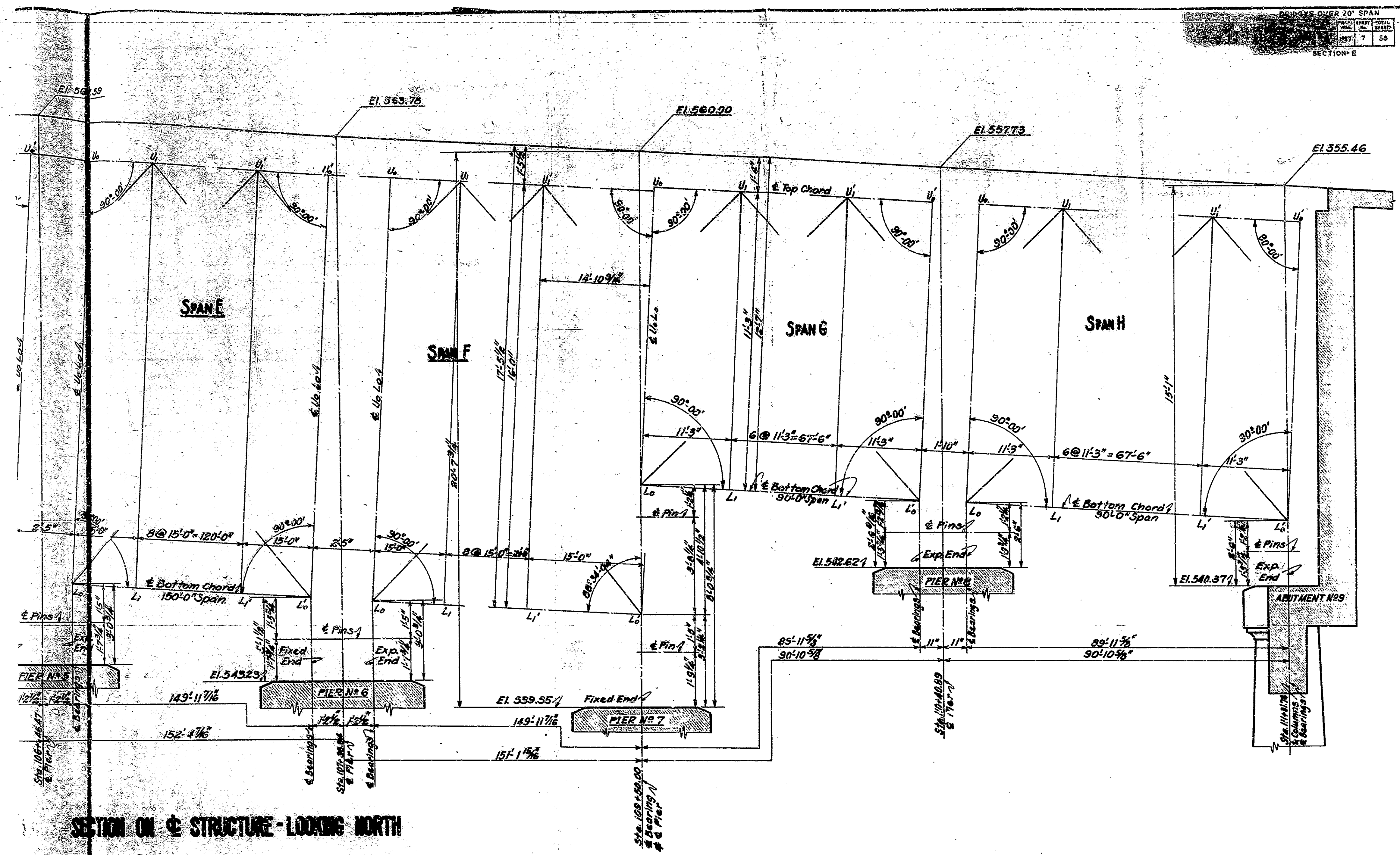
PAGE NUMBER	MEMBER	PRIMARY STRESSES					SECTION	PROPERTIES				AREA REQ'D. AT CENTER	AREA REQ'D. AT END	AREA GIVEN - #"				CONNECTION STRESS	DETAILS	
		D.L.	L.L.	S.W. L.L.	IMPACT	TOTAL		I. IN.	T. IN.	E	WEIGHT LBS. PER FT.			GROSS	HOLE CENTER	OUT. END	NET CENTER			NET END
	U0 U1	THIS MEMBER SERVES ONLY AS STRINGER																		
Stress - 347	U1 U2						2-Ls-18"-45.8"	180.0			99.0									Batt Rs. 9x8-1'10"
Section - 371	U2 U3	-371,250	-152,100	-21,310	-27,700	-572,360	2-Ls-18"-45.8"	180.0	7.84	23.0	186.0	47.53	45.09	49.26						END STAY RS. 27x8-1'10"
Str. - 347	U3 U4						2-Ls-18"-45.8"	180.0	7.84	23.0	186.0	47.53	45.09	49.26						Doub. Lac. 4x4x2-2'7"
Sec. - 373	U4 U5	-556,900	-227,700	-31,970	-41,400	-857,970	2-Ls-18"-45.8"	180.0	7.84	23.0	186.0	47.53	45.09	49.26						Doub. Lac. 4x4x2-2'7"
Str. - 347	L0 L2	+208,800	+85,500	+12,000	+15,600	+321,900	2-Ls-15"-40"	360.0	5.52	65.2	80.0	19.35	-18.87	23.40	2.19	2.08	21.21	21.32		End Stay R. 27x8-1'10"
Sec. - 374	L2 L4	+487,300	+199,200	+28,000	+36,300	+750,800	2-Ls-15"-55"	360.0	4.79	75.2	205.0	49.25	45.10	53.98	5.03	6.26	48.94	47.71		End Stay R. 27x8-1'10"
Str. - 348	L4 L4'	+580,100	+237,400	+33,300	+43,200	+894,000	2-Ls-15"-55"	360.0	4.72	76.2	243.0	58.03	53.31	64.85	5.56	7.75	59.29	57.10		Int. Tie R. 15x8-1'10"
Sec. - 378	L4 L4'	+580,100	+237,400	+33,300	+43,200	+894,000	2-Ls-15"-55"	360.0	4.72	76.2	243.0	58.03	53.31	64.85	5.56	7.75	59.29	57.10		Spac. 4'-0" Ctrs.
Str. - 347	L0 U1	-305,300	-140,300	-17,530	-25,550	-488,680	4-Ls-8"x4"x3/4"	263.2	3.8	69.25	132.1	38.60	37.14	38.26						do
Sec. - 348	L0 U1	-305,300	-140,300	-17,530	-25,550	-488,680	1-R. 12"x8"	263.2	3.8	69.25	132.1	38.60	37.14	38.26						do
Str. - 347	U1 L2	+237,500	+116,450	+14,780	+23,750	+392,480	2-Ls-15"-50"	263.2	4.49	58.5	147.0	39.97	42.08	42.52 (center)						2-Fill R. 15x8-1'5" at L0
Sec. - 364	U1 L2	+237,500	+116,450	+14,780	+23,750	+392,480	1-12"W-92*(12 3/8"-d)	263.2	3.08	85.5	92.0	22.76	22.73	27.06		3.42	27.06	23.64		
Str. - 347	L2 U3	-169,600	-94,850	-12,130	-20,600	-297,180	1-12"W-92*(12 3/8"-d)	263.2	3.08	85.5	92.0	25.29	23.86	27.06						
Sec. - 365	L2 U3	-169,600	-94,850	-12,130	-20,600	-297,180	1-12"W-92*(12 3/8"-d)	263.2	3.08	85.5	92.0	25.29	23.86	27.06						
Str. - 347	U3 L4	+101,800	+75,200	+9,630	+17,420	+204,050	1-12"W-50*(12 3/8"-d)	263.2	1.96	134.2	30.0		12.34	14.71						
Sec. - 366	U3 L4	+101,800	+75,200	+9,630	+17,420	+204,050	1-12"W-50*(12 3/8"-d)	263.2	1.96	134.2	30.0		12.34	14.71						
Str. - 347	L4 U5	-33,900	-57,750	-7,400	-14,440	-113,490	1-12"W-53*(12 3/8"-d)	263.2	2.48	106.0	53.0	12.49	11.41	15.39						
Sec. - 367	L4 U5	-33,900	-57,750	-7,400	-14,440	-113,490	1-12"W-53*(12 3/8"-d)	263.2	2.48	106.0	53.0	12.49	11.41	15.39						
Str. - 348	U0 L0	-26,540	-51,200	-2,750	-18,200	-98,190	1-12"W-40*(11 3/8"-d)	192.0	1.94	99.0	40.0	7.82	7.82	11.77						
Sec. - 368	U0 L0	-26,540	-51,200	-2,750	-18,200	-98,190	1-12"W-40*(11 3/8"-d)	192.0	1.94	99.0	40.0	7.82	7.82	11.77						
Str. - 348	U2 L2	-49,500	-54,600	-4,500	-17,600	-126,200	1-12"W-40*(11 3/8"-d)	192.0	1.94	99.0	40.0	10.78	10.78	11.77						
Sec. - 369	U2 L2	-49,500	-54,600	-4,500	-17,600	-126,200	1-12"W-40*(11 3/8"-d)	192.0	1.94	99.0	40.0	10.78	10.78	11.77						

**SPANS C, D, E & F STRESS AND DESIGN SHEET
STATE HIGHWAY COMMISSION OF INDIANA**

SCALE: NONE
RECOMMENDED FOR APPROVAL: [Signature] OCTOBER 20, 1936

PROJECT: F.A. 74 STATION: 106+46.47
SECTION: E STRUCTURE NO. 1784
DRAWING: S-4 OF 37

BRIDGE CONTRACT NO. 1454

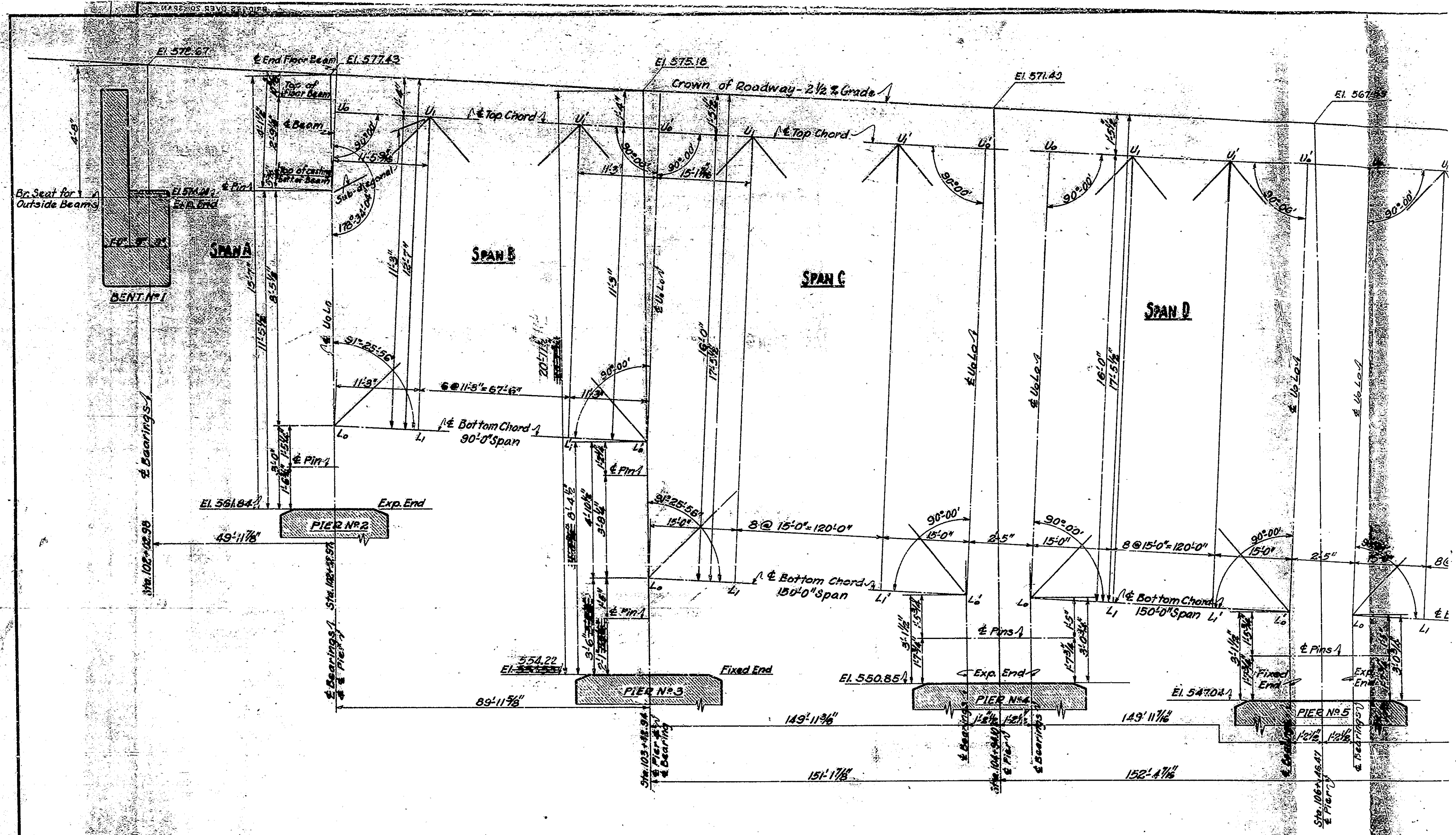


ELEVATIONS & TIE-UP DIMENSIONS-ENTIRE STRUCTURE
 STATE HIGHWAY COMMISSION OF INDIANA

SCALE- NONE
 RECOMMENDED FOR APPROVAL

PROJECT- FA 74
 SECTION- E
 DRAWING- S3 OF 47

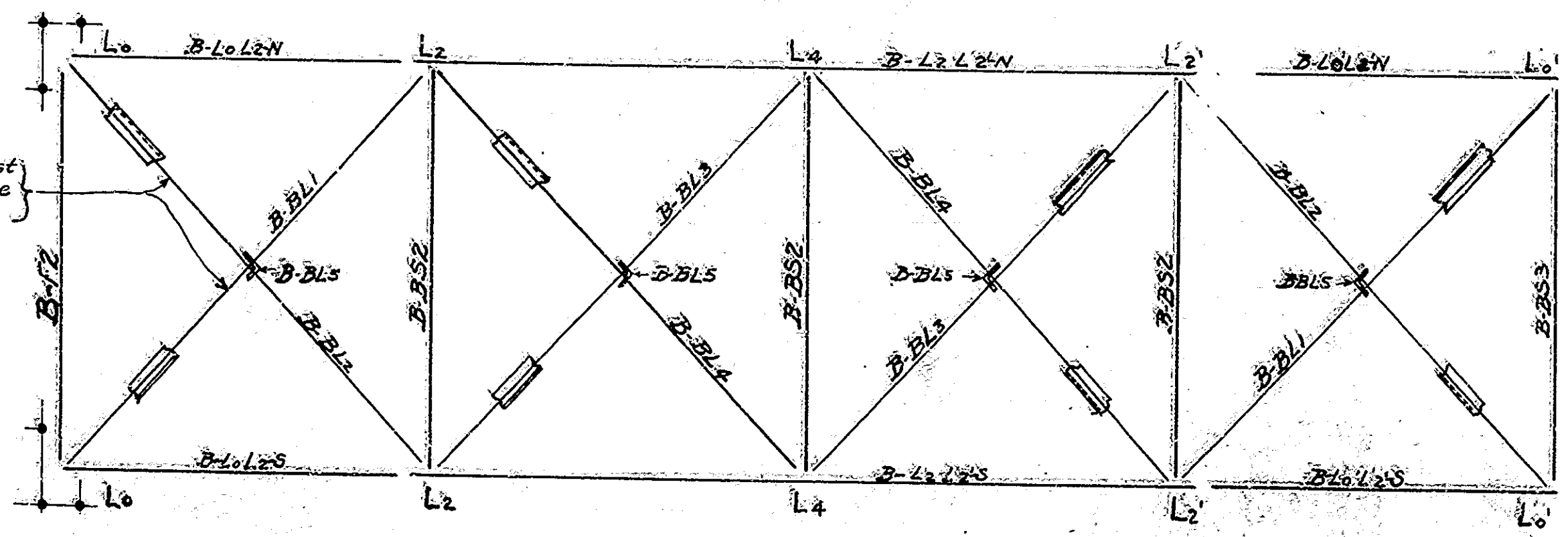
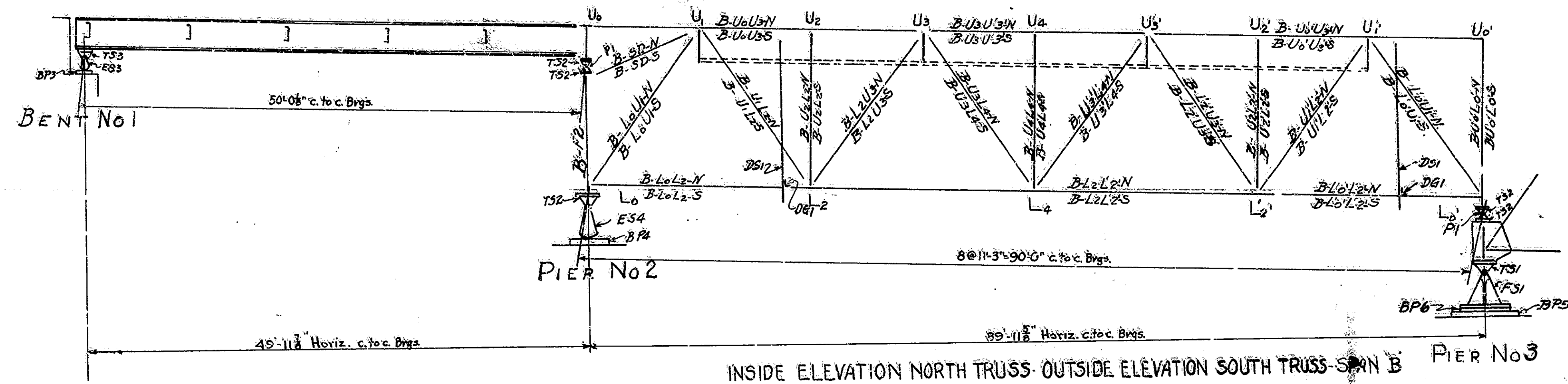
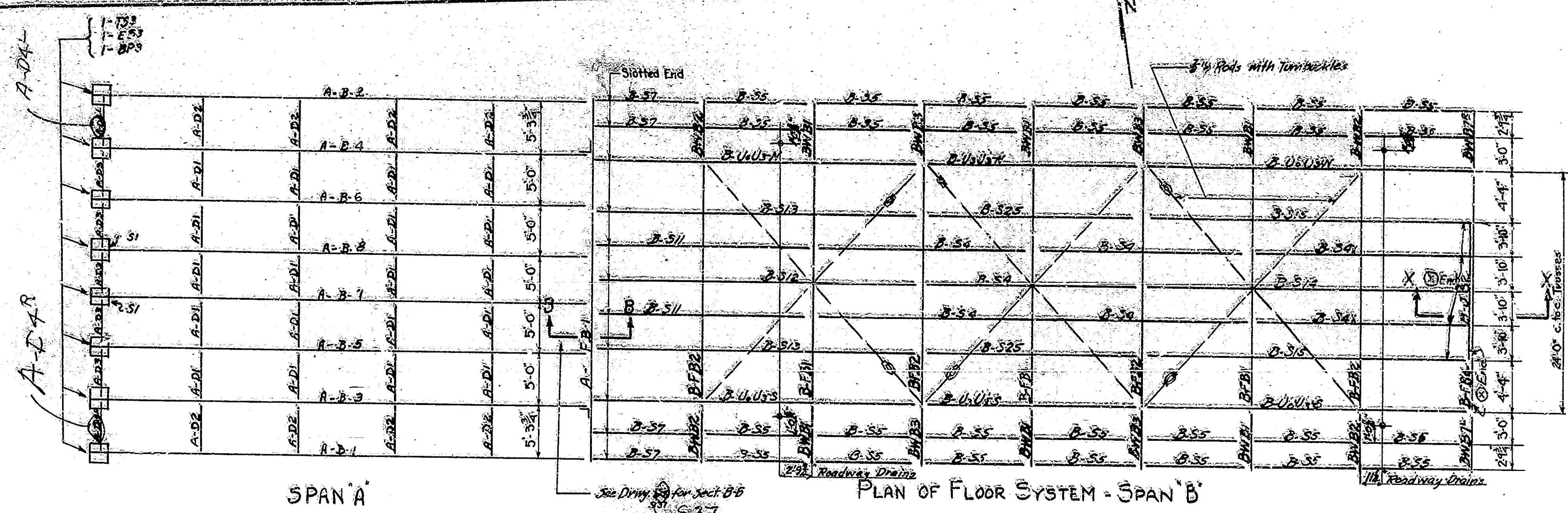
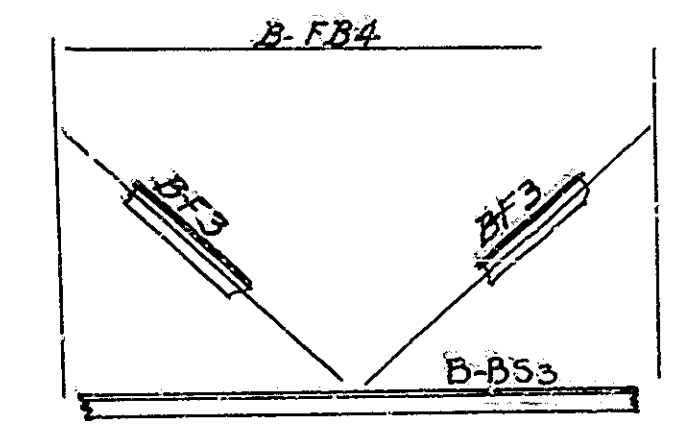
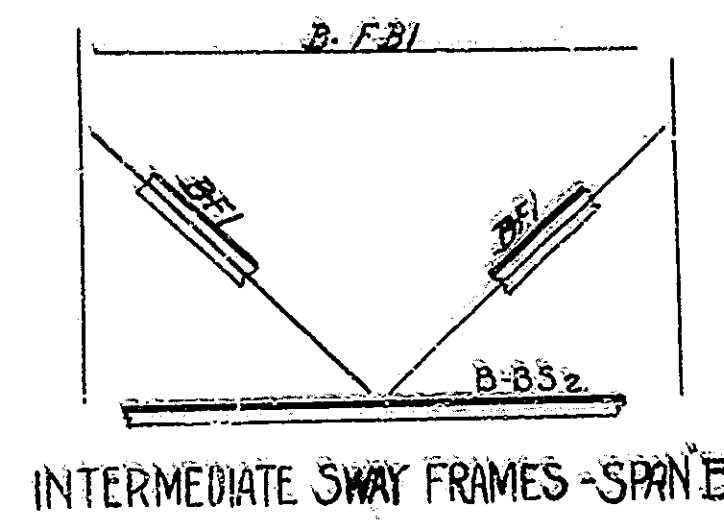
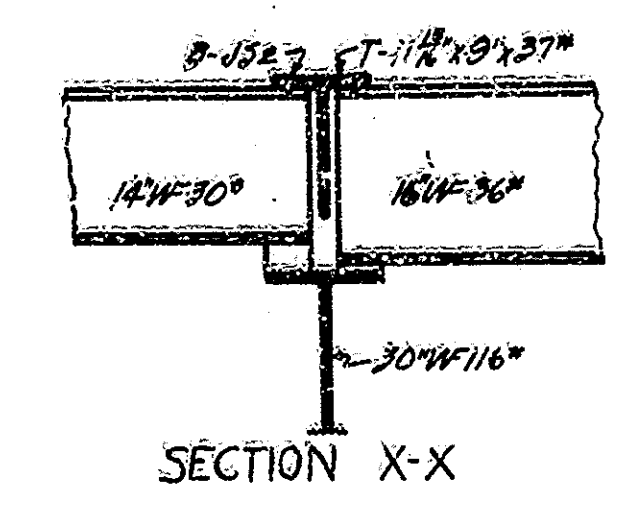
OCTOBER 20, 1936
 STATION- 106+66.47
 STRUCTURE NO. 1784



SECTION ON

BRIDGE OVER 20' SPAN					
FILE NO.	STATE	PROJ. NO.	SPAN	NO. SHEETS	TOTAL SHEETS
7	IND.	74	1937	8	88

SECTION - E



These bottom laterals must be removed in order to drive rivets in bottom chord at L0

GENERAL NOTES
 The 3/4" rods and turnbuckles shown in "PLAN OF FLOOR SYSTEM" are temporary top laterals which must be used if required by the Engineer or which the Contractor may elect to use. See Special Provisions.
 Truss members marked "N" go in North Truss. Truss members marked "S" go in South Truss.
 Set only three anchor bolts for each Truss Shoe.

SPANS A & B ERECTION PLAN
 STATE HIGHWAY COMMISSION OF INDIANA

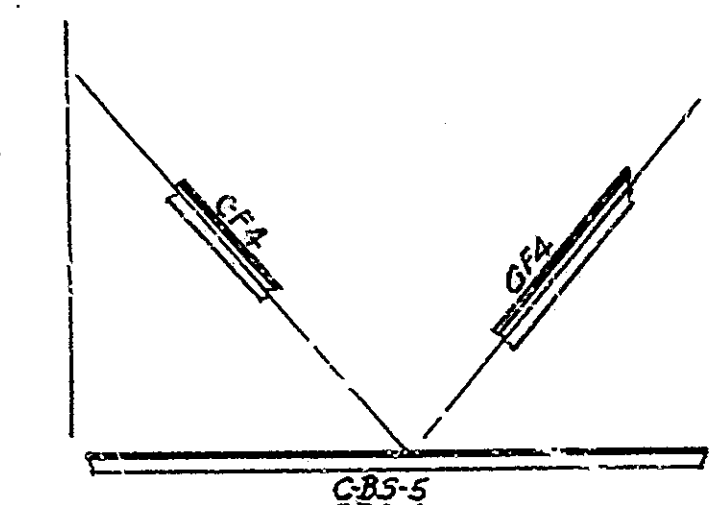
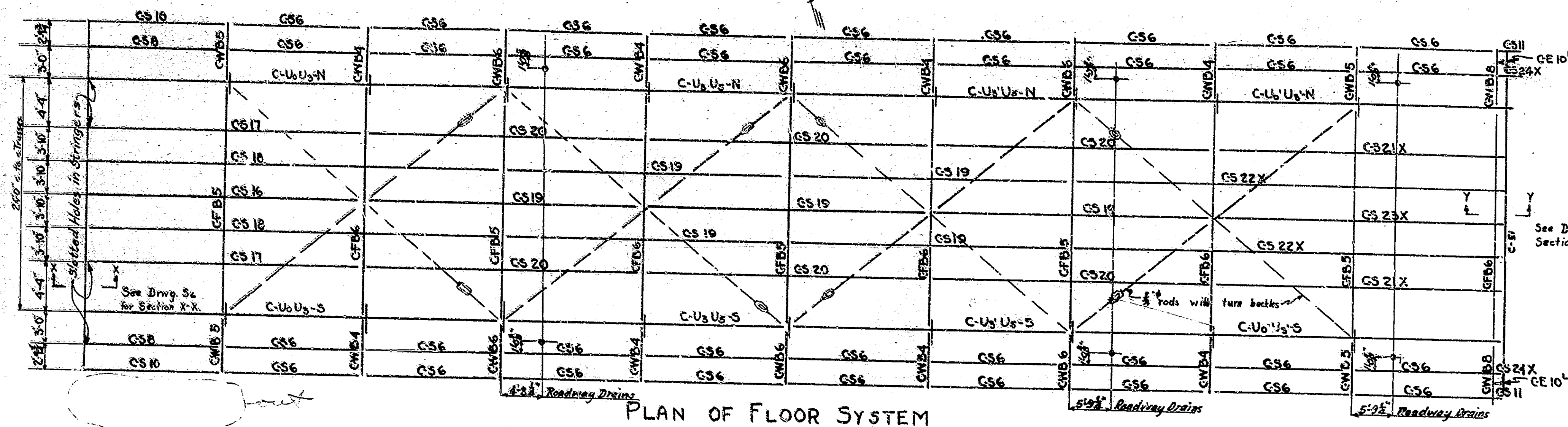
SCALE: NOT TO SCALE
 RECOMMENDED FOR APPROVAL: [Signature]
 PROJECT: F.A. 74 STATION: 106+48.47
 SECTION: E STRUCTURE NO. 1784
 DRAWING: 56 OF 47
 BRIDGE CONTRACT NO. 1454

REV. A-D4 1-22-37 B.L.
 Change S7 to S37 5-10-37 B.L.
 BRIDGE FILE: 52-1784

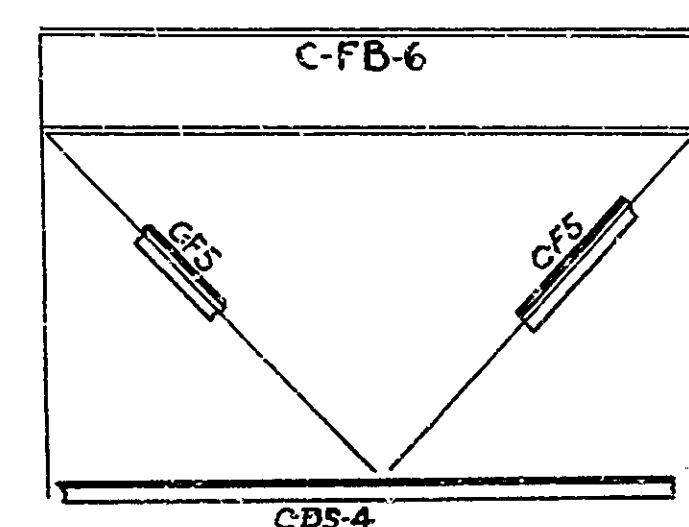
Rev. 5-10-37 Change S7 to S37 B.L.

BRIDGES OVER 20' SPAN						
FED. ROAD DIST. NO.	STATE	R. & M. PROJECT NO.	SHEET NO.	TOTAL SHEETS	DATE	BY
7	IND.	74	1937	9	58	

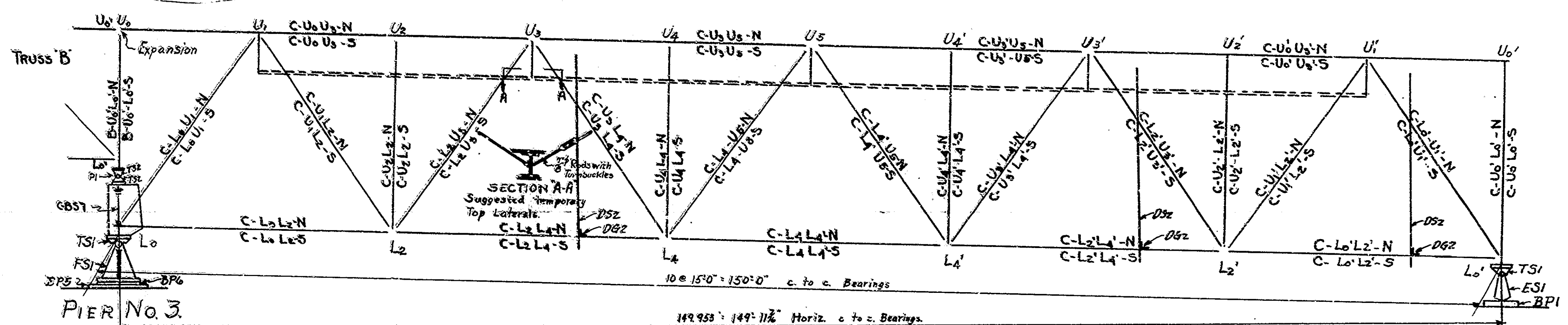
SECTION: E



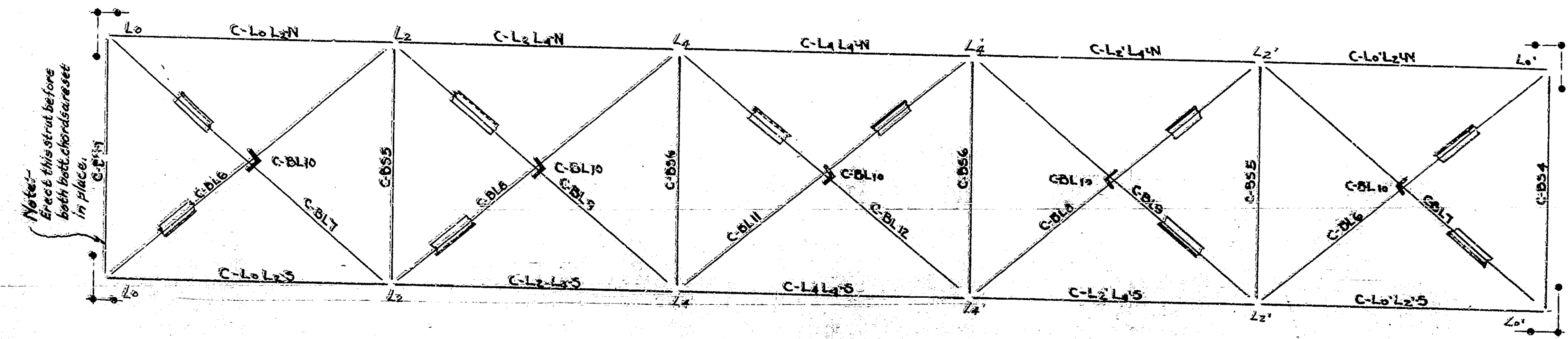
INTERMEDIATE SWAY FRAME



END SWAY FRAME AT PIER #4



INSIDE ELEVATION NORTH TRUSS - OUTSIDE ELEVATION SOUTH TRUSS
SPAN 'C'



PLAN OF LATERAL BRACING
AND
ANCHOR BOLTS.

GENERAL NOTES
 The rods and turnbuckles shown in "Plan of Floor System" are temporary top laterals which must be used if required by the Engineer or which the Contractor may elect to use. See Special Provisions.
 Set only 3 Anchor Bolts for each Truss Shoe.
 Truss members marked 'N' go in North Truss, truss members marked 'S' go in South Truss.

SPAN 'C' ERECTION PLAN
STATE HIGHWAY COMMISSION OF INDIANA

SCALE: NOT TO SCALE
 RECOMMENDED FOR APPROVAL: *[Signature]*
 PROJECT: EA-74 STATION: 106+46.47
 SECTION: E STRUCTURE NO. 1784
 DRAWING: 57 OF 47
 BRIDGE CONTRACT NO. 1454

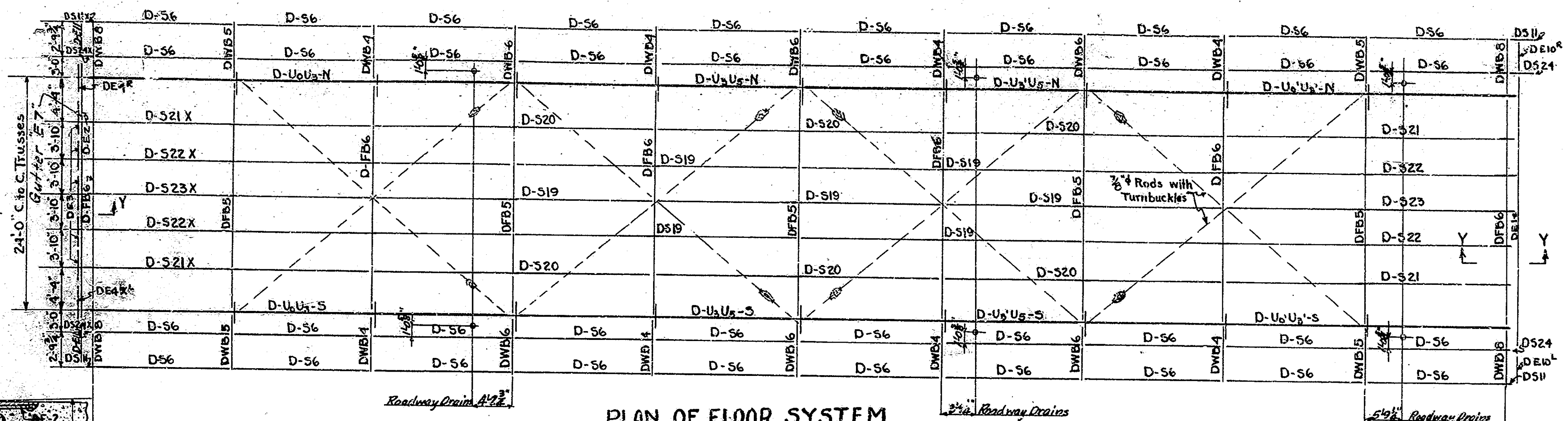
DESIGNED BY: L. L. L. L. L.
 DRAWN BY: J. J. J. J. J.
 CHECKED BY: K. K. K. K. K.

BRIDGE FILE: 52-P-1784

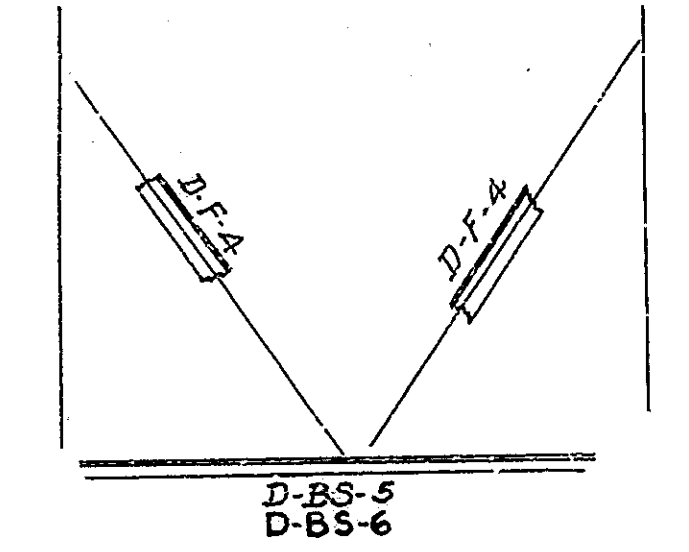
Ord. For Copy Changes - 9-28-37

BRIDGES OVER 20' SPAN				
FED. ROAD DIST. NO.	STATE	E. A. PROJECT NO.	CONTRACT NO.	TOTAL SHEETS
7	IND.	74	1937	10

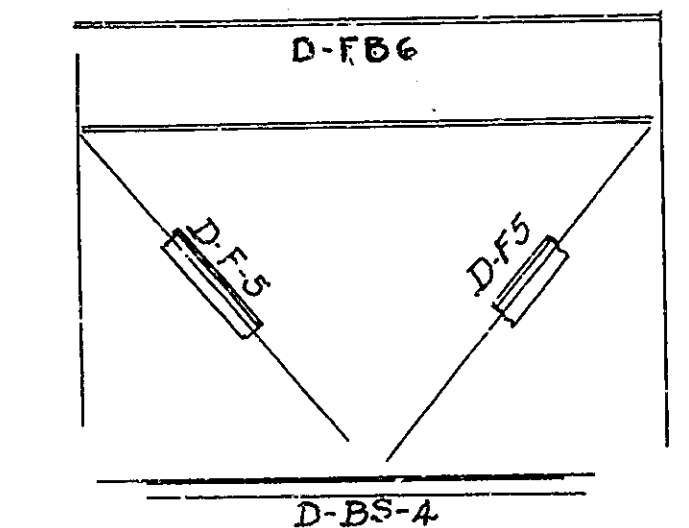
SECTION - E



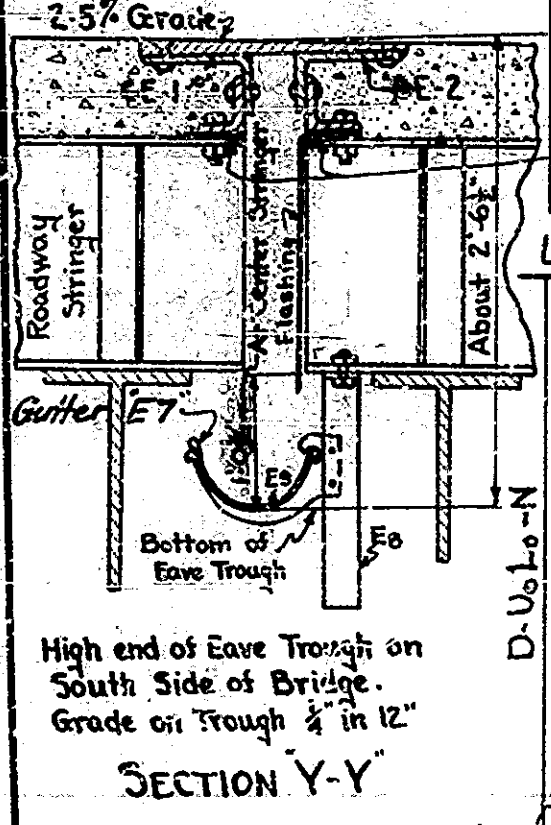
PLAN OF FLOOR SYSTEM



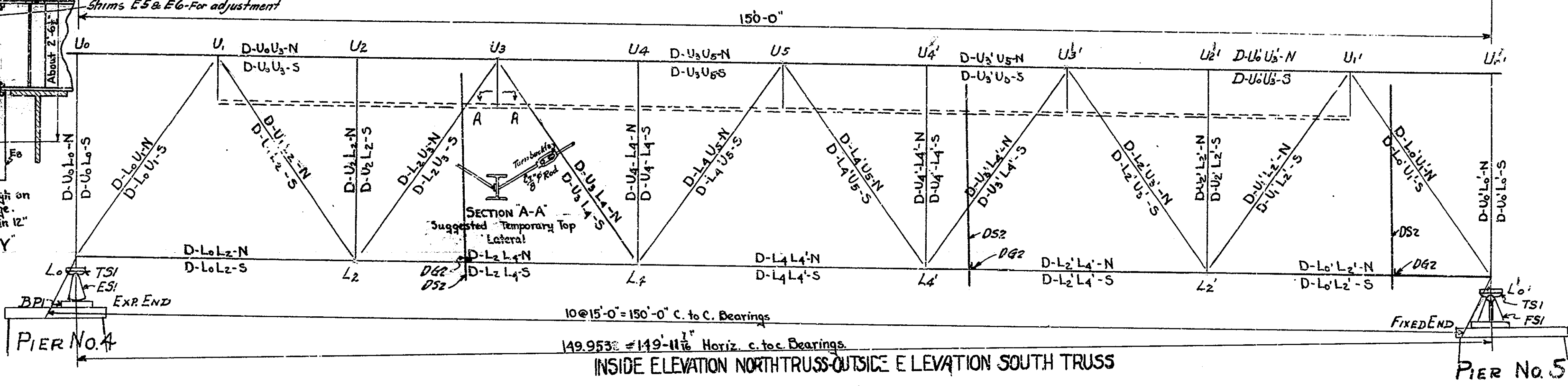
INTERMEDIATE SWAY FRAMES



END SWAY FRAMES

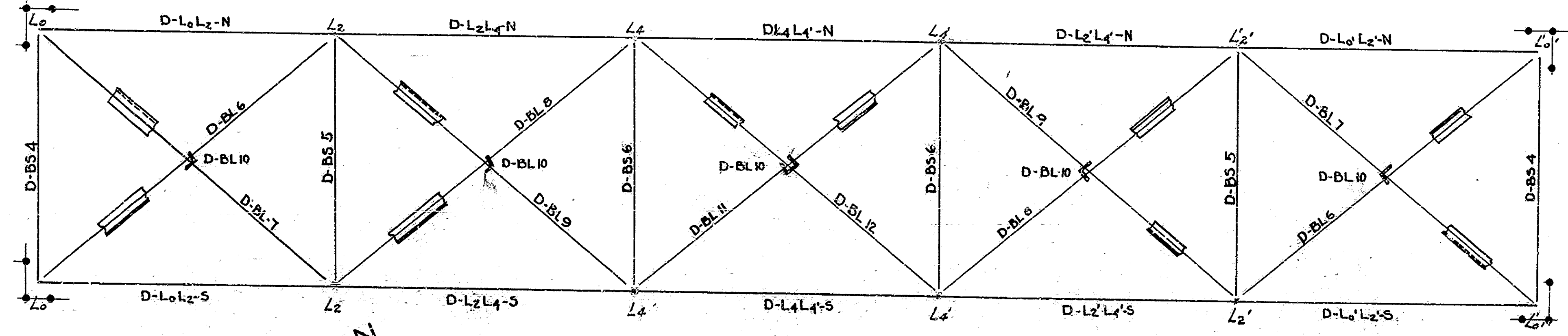


SECTION Y-Y



SPAN 'D' ELEVATION NORTH TRUSS-OUTSIDE ELEVATION SOUTH TRUSS

GENERAL NOTES
 The 3/4" rods and turnbuckles shown in Plan of Floor System are temporary top laterals which must be used if required by the Engineer, or which the Contractor may elect to use. See Special Provisions.
 Set only 3 Anchor Bolts for each Truss Shoe.
 Truss members marked 'N' go in north truss, truss members marked 'S' go in south truss.



PLAN OF LATERAL BRACING AND ANCHOR BOLTS.

STATE HIGHWAY COMMISSION OF INDIANA

SCALE - NOT TO SCALE
 RECOMMENDED FOR APPROVAL: [Signature]
 PROJECT - F.A. 74 STATION - 106+46.47
 SECTION - E STRUCTURE NO. 1784
 DRAWING - 58 OF 47
 BRIDGE CONTRACT NO. 1454

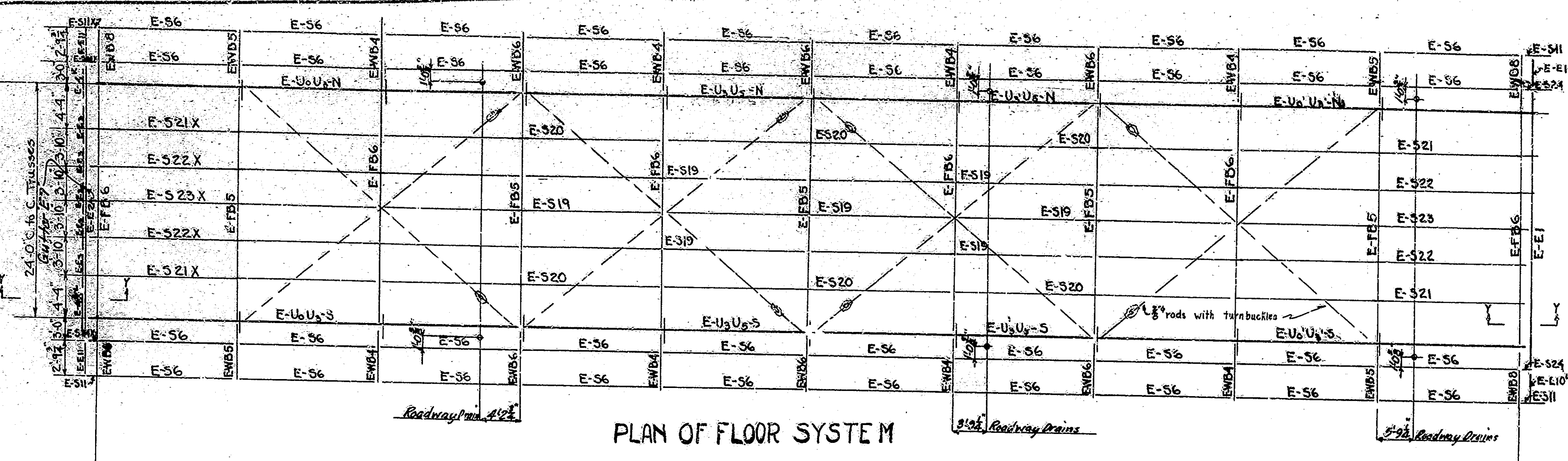
BRIDGE FILE: 52-P1784

Chd. For Construction Changes - 9-20-35

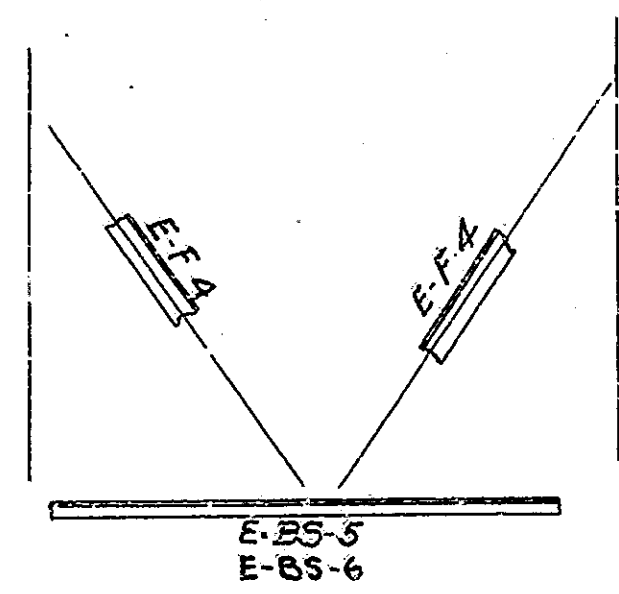
Chd. For Const. Changes

BRIDGES OVER 20' SPAN				
FED. ROAD DIST. NO.	STATE	SPAN	PIERCES	TOTAL
7	IND.	24	1937	11 38

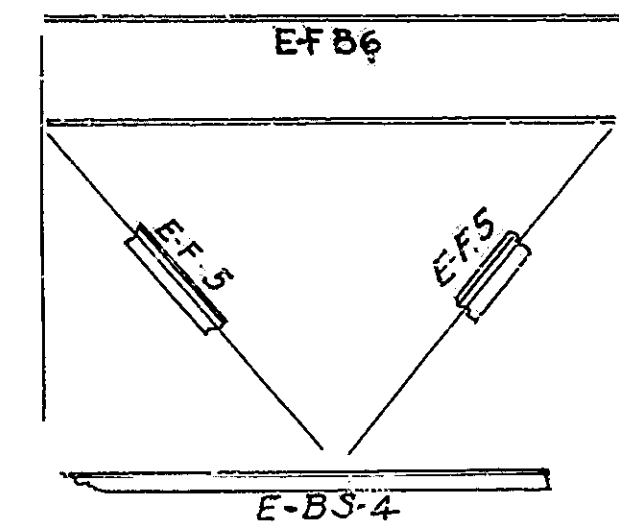
SECTION - E



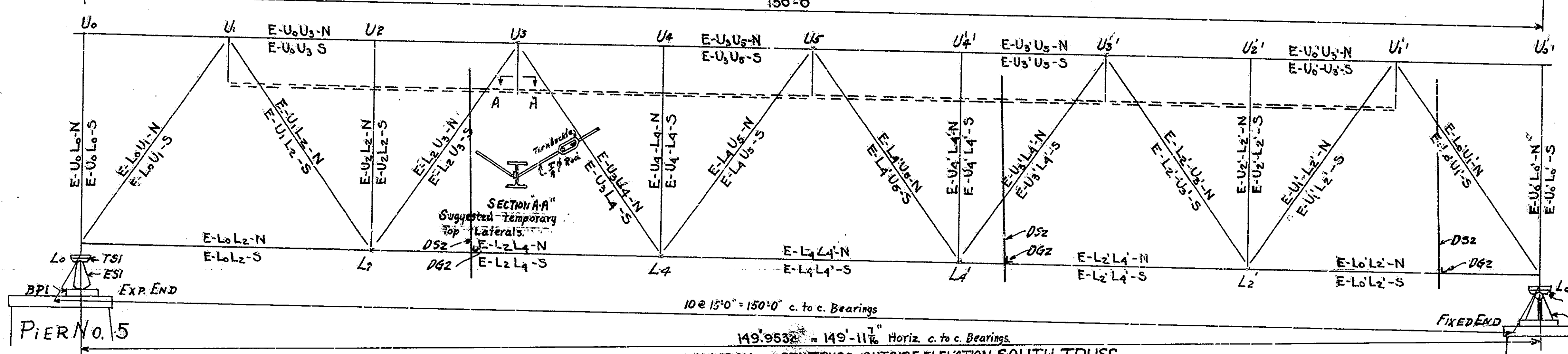
PLAN OF FLOOR SYSTEM



INTERMEDIATE SWAY FRAMES

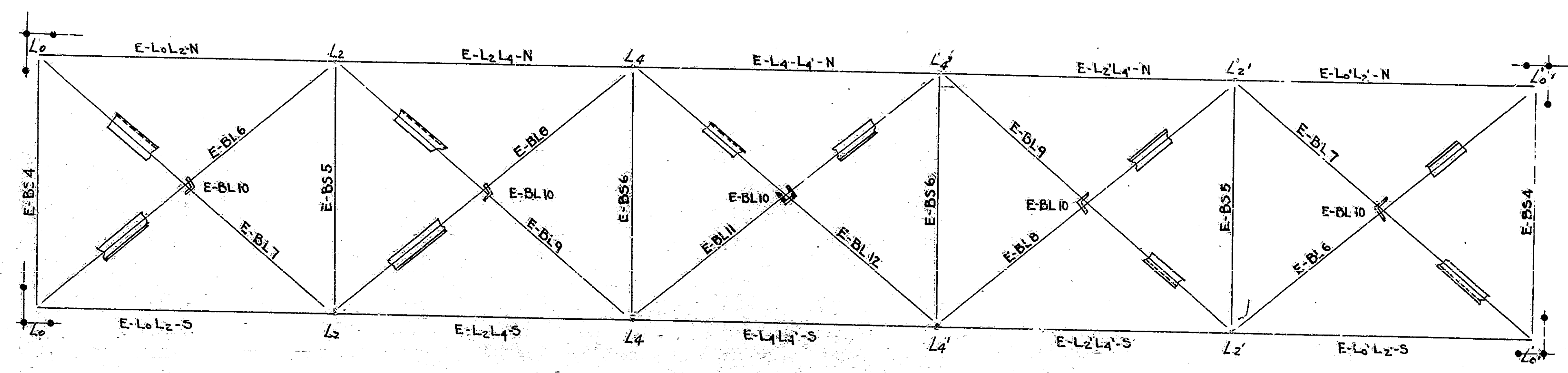


END SWAY FRAMES



INSIDE ELEVATION NORTH TRUSS - OUTSIDE ELEVATION SOUTH TRUSS.
SPAN 'E'

GENERAL NOTES
 The 3" rods and turnbuckles shown in "Plan of Floor System" are temporary top laterals which must be used if required by the Engineer or which the Contractor may elect to use. See Special Provision. Set only 3 Anchor Bolts for each Truss Shoe. Truss members marked "N" go in north truss, Truss members marked "S" go in south truss.



PLAN OF LATERAL BRACING AND ANCHOR BOLTS.

STEEL TRUSS BRIDGE
 STATE HIGHWAY COMMISSION OF INDIANA

SCALE: NOT TO SCALE
 RECOMMENDED FOR APPROVAL: [Signature]
 PROJECT: F.A. 74 STATION: 106+46.47
 SECTION: E STRUCTURE NO. 1784
 DRAWING: 59 OF 47
 BRIDGE CONTRACT NO. 1454

DESIGNED: C.V.O.
 DRAWN: G.L.K.
 CHECKED: B.L.S.
 TRACED: R.F.H.

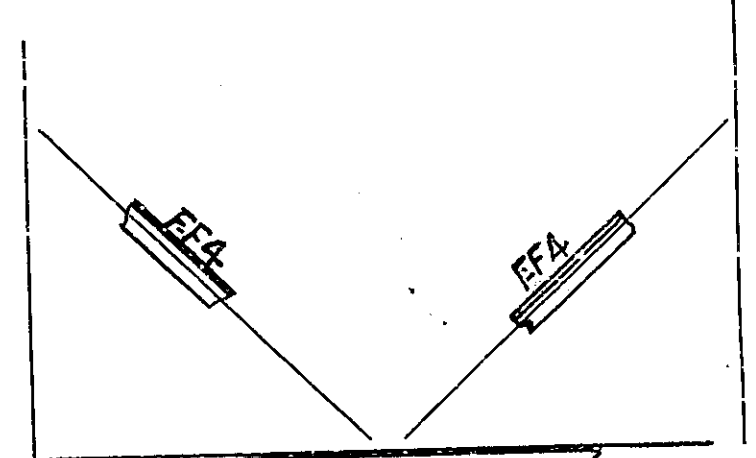
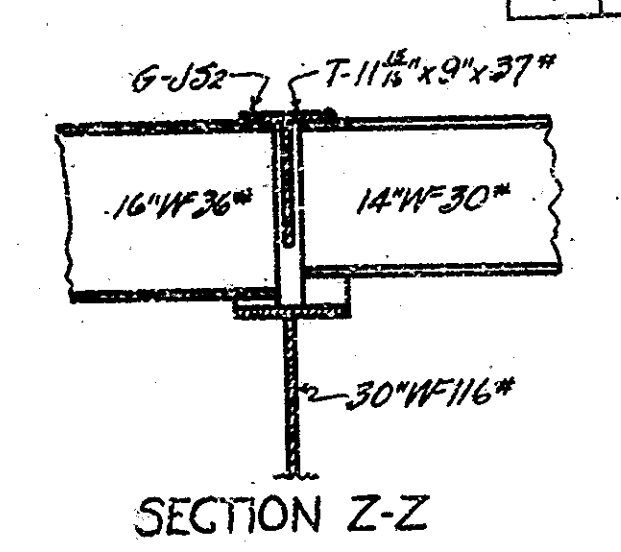
BRIDGE FILE: 52-P-1784

CHK'd For Const. Change - 9-26-35

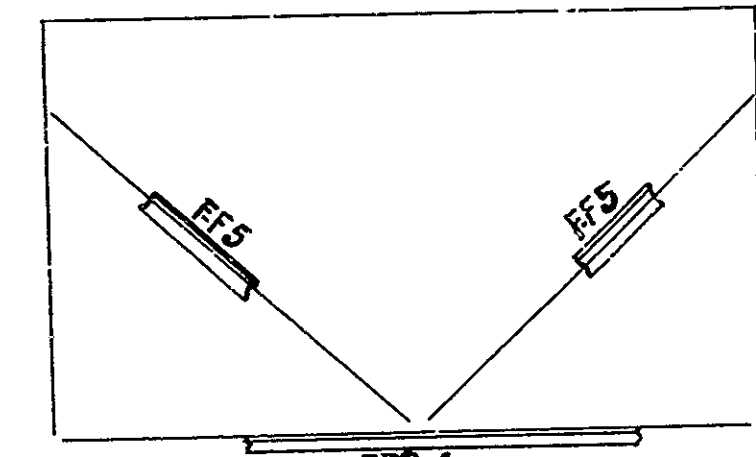
CHK'd For Const. Change -

BRIDGES OVER 20' SPAN			
FED. ROAD DIST. NO.	STATE	PROJ. NO.	TOTAL SHEETS TO BE APPLIC.
7	IND.	74	1937 12 58

SECTION - E



INTERMEDIATE SWAY FRAME



END SWAY FRAME
SEC. X-X

GENERAL NOTES

The 3/4 rods and turnbuckles shown in "PLAN OF FLOOR SYSTEM" are temporary top laterals which must be used if required by the Engineer or which the Contractor may elect to use. See Special Provisions.
Set only 3 anchor bolts for each Truss Shoe.
Truss members marked "N" go in North Truss. Truss members marked "S" go in South Truss.

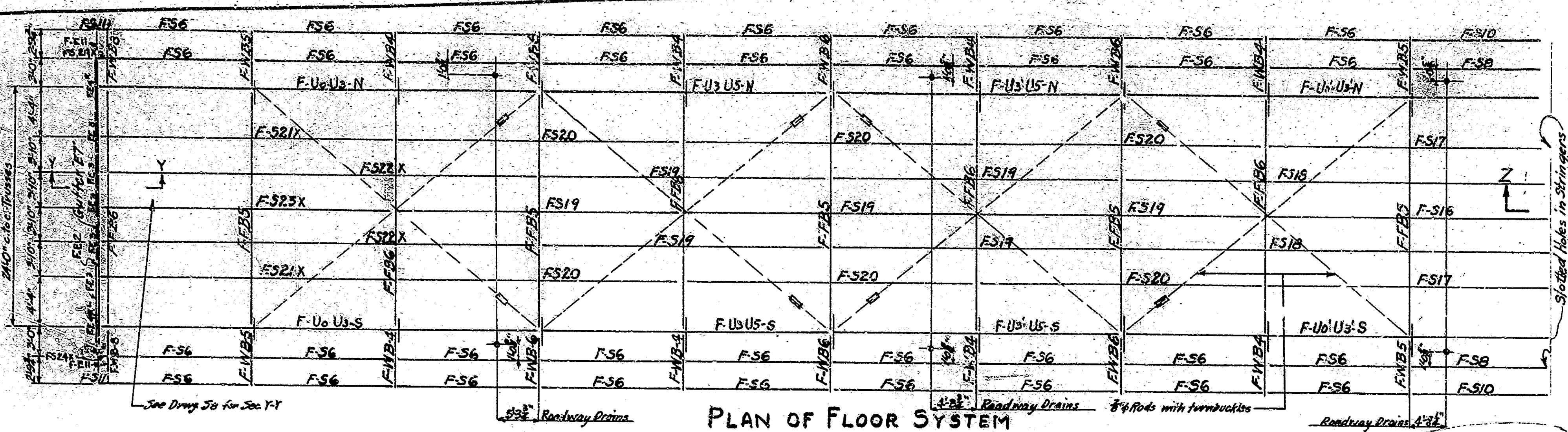
STEEL TRUSS BRIDGE

SPAN 'F' ERECTION PLAN
STATE HIGHWAY COMMISSION OF INDIANA

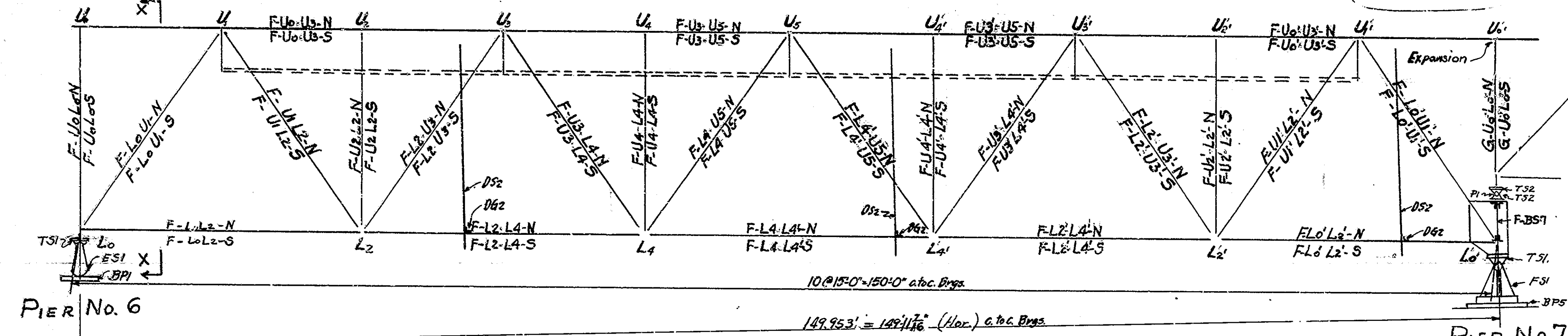
SCALE: NOT TO SCALE
RECOMMENDED FOR APPROVAL: [Signature]
OCTOBER 20, 1936

PROJECT: F.A. 74
SECTION: E
DRAWING: S10 OF 47
STATION: 106+46.47
STRUCTURE NO. 1784
BRIDGE CONTRACT NO. 1454

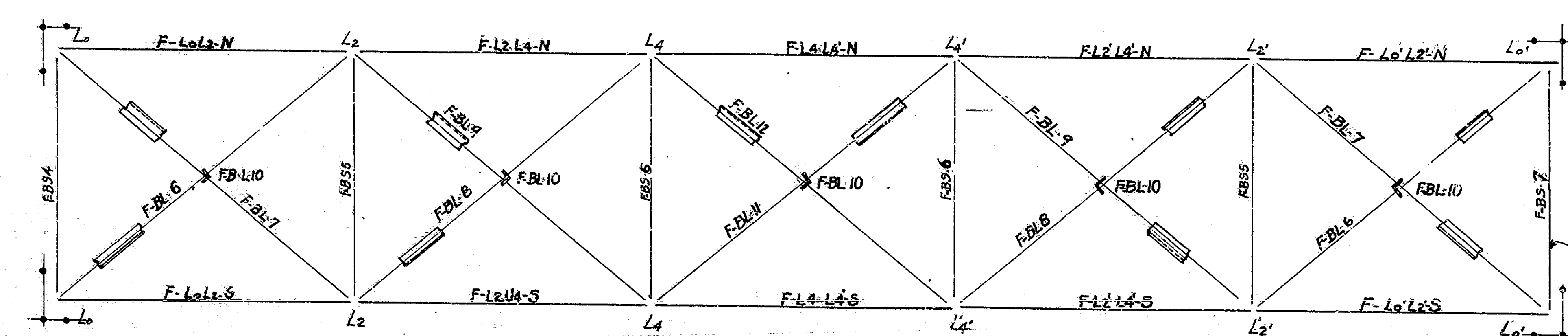
BRIDGE FILE: 52-P1784



PLAN OF FLOOR SYSTEM



INSIDE ELEVATION NORTH TRUSS - OUTSIDE ELEVATION SOUTH TRUSS,
SPAN "F"



PLAN OF LATERAL BRACING
AND
ANCHOR BOLTS

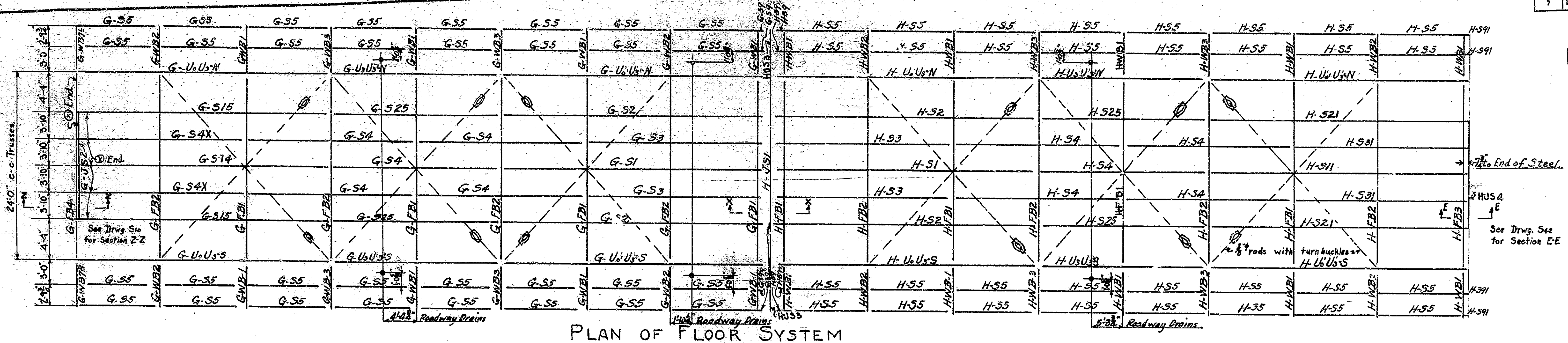
Note: Treat this story before both ball-chains are set in place.

DESIGNED BY: [Name]
DRAWN BY: [Name]
CHECKED BY: [Name]

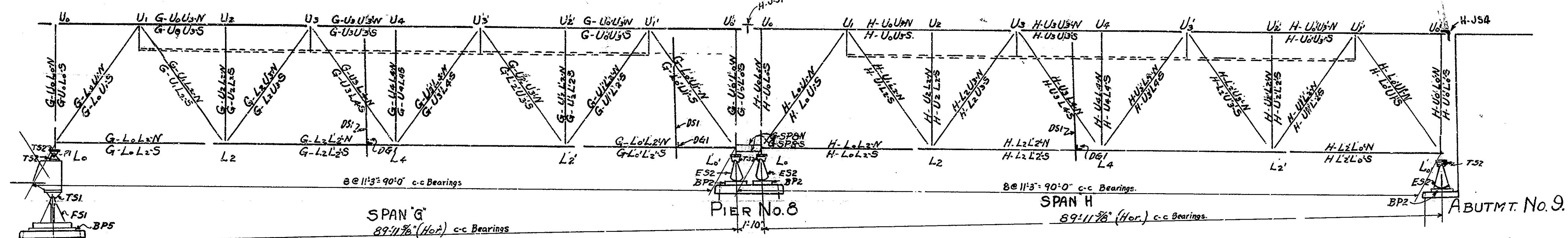
Chd. For Const. changes 10-20-36
c.k.j.

BRIDGES OVER 20' SPAN					
FED. ROAD DIST. NO.	STATE	A. D. FISCAL YEAR	PROJECT NO.	TOTAL LENGTH	TOTAL COST
7	IND.	14	1937	15	58

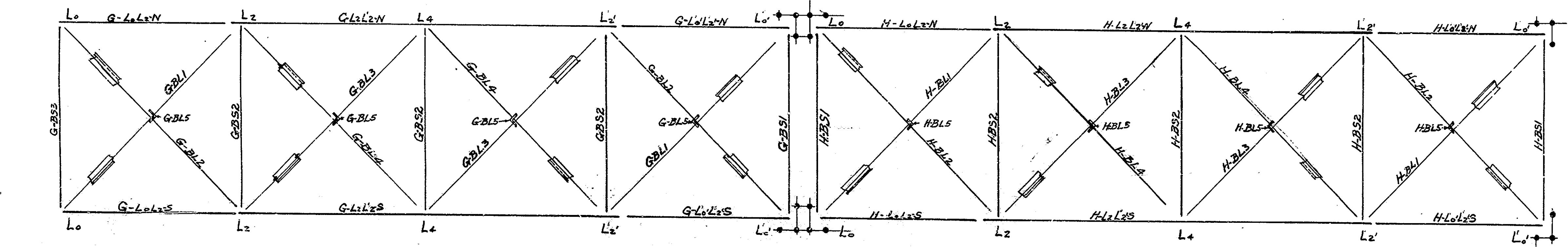
SECTION - E



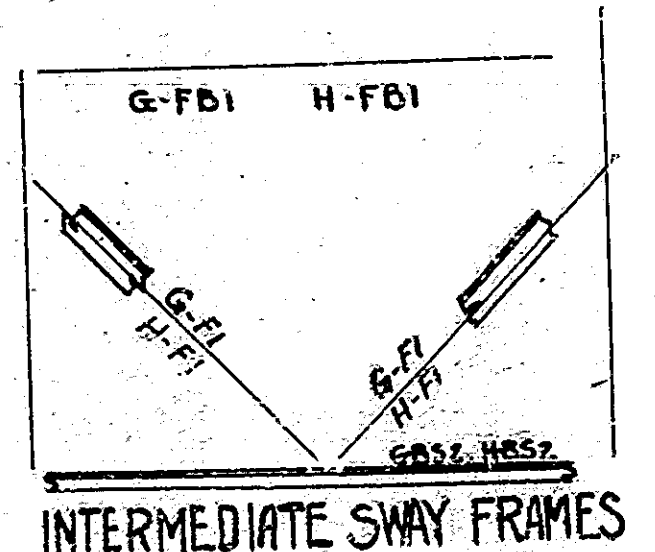
PLAN OF FLOOR SYSTEM



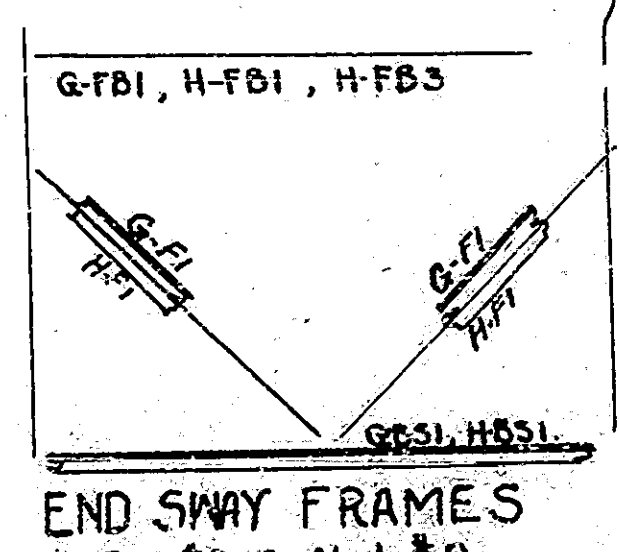
INSIDE ELEVATION NORTH TRUSS - OUTSIDE ELEVATION SOUTH TRUSS - SPAN 'G' & 'H'



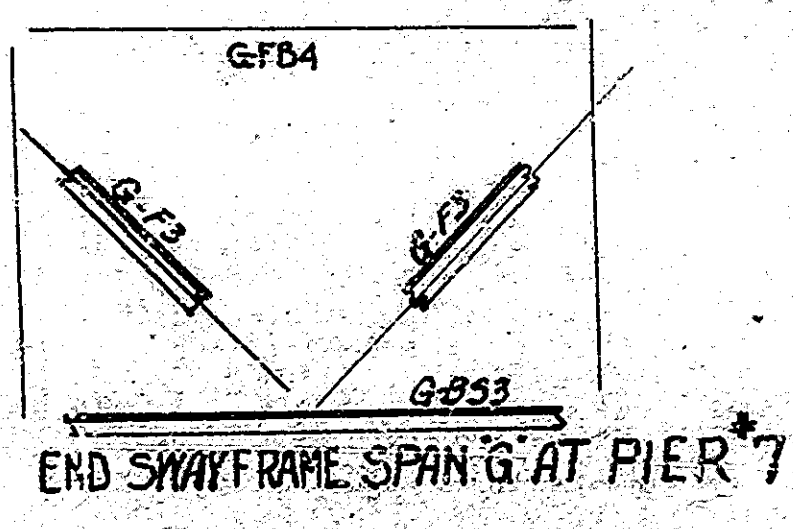
PLAN OF LATERAL BRACING AND ANCHOR BOLTS



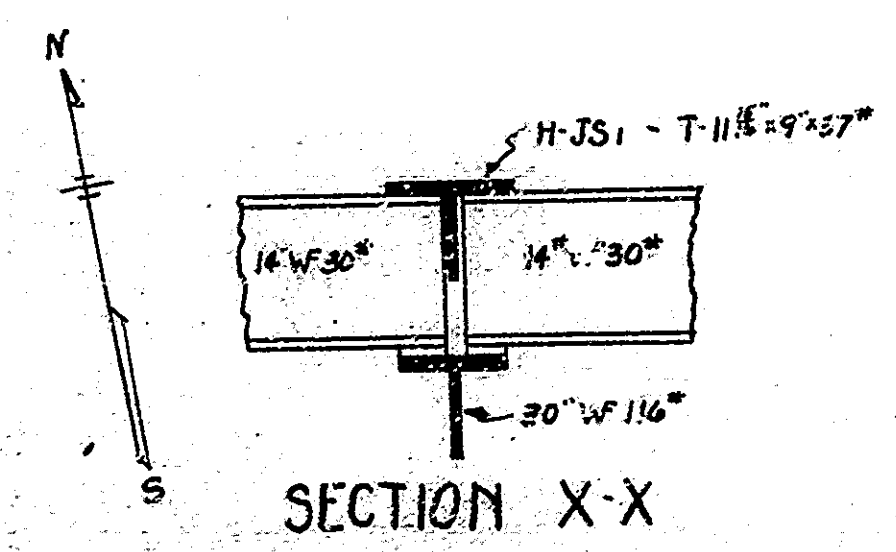
INTERMEDIATE SWAY FRAMES



END SWAY FRAMES At Pier #8 & Abut. #9



END SWAY FRAME SPAN 'G' AT PIER 7



SECTION X-X

GENERAL NOTES

All Truss Members marked 'N' go on North Truss, All Truss Members marked 'S' go on South Truss. The rods and turnbuckles shown in Plan of Floor System are temporary top laterals which must be used if required by the Engineer, or which the Contractor may elect to use. See Special Provisions. Set only three anchor bolts for each Truss Shoe.

SPANS G & H ERECTION PLAN
STATE HIGHWAY COMMISSION OF INDIANA

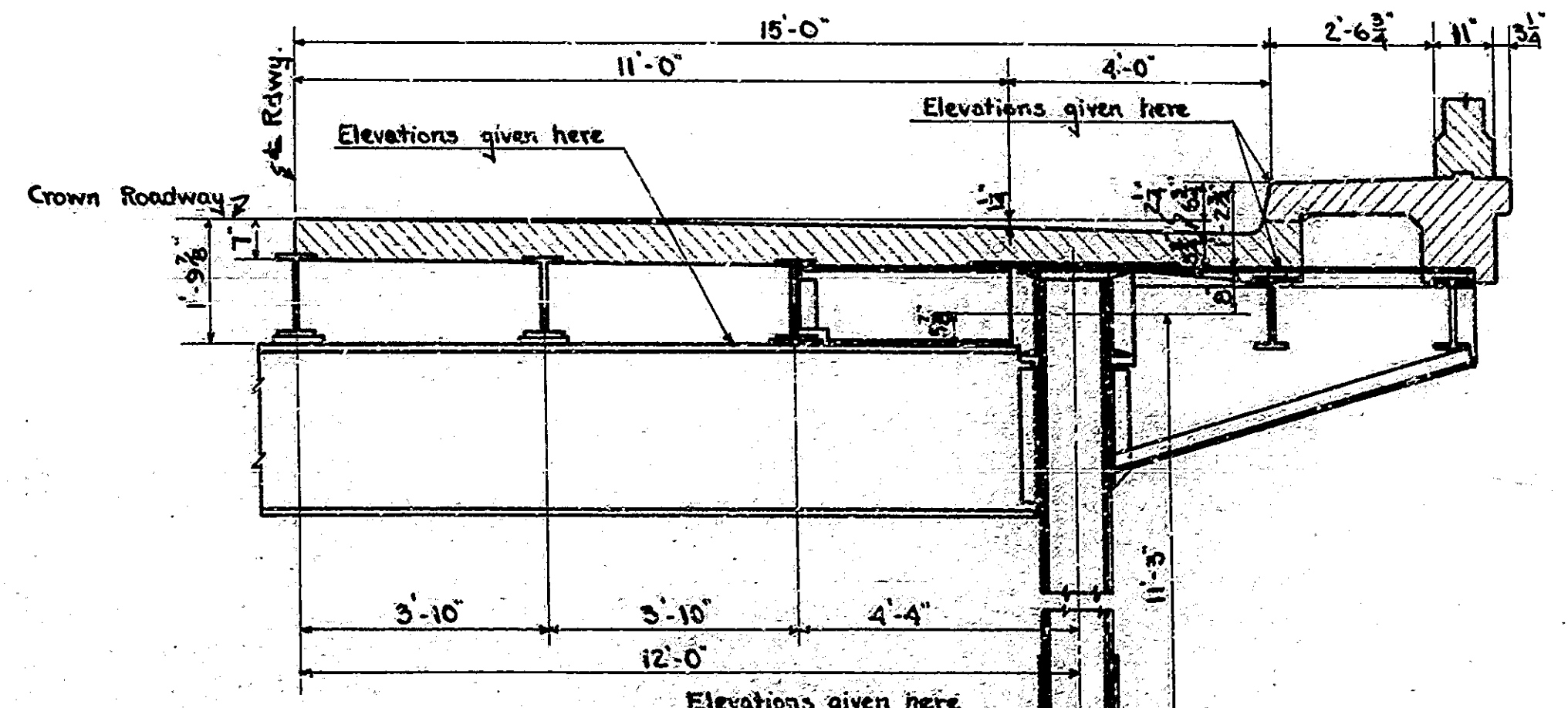
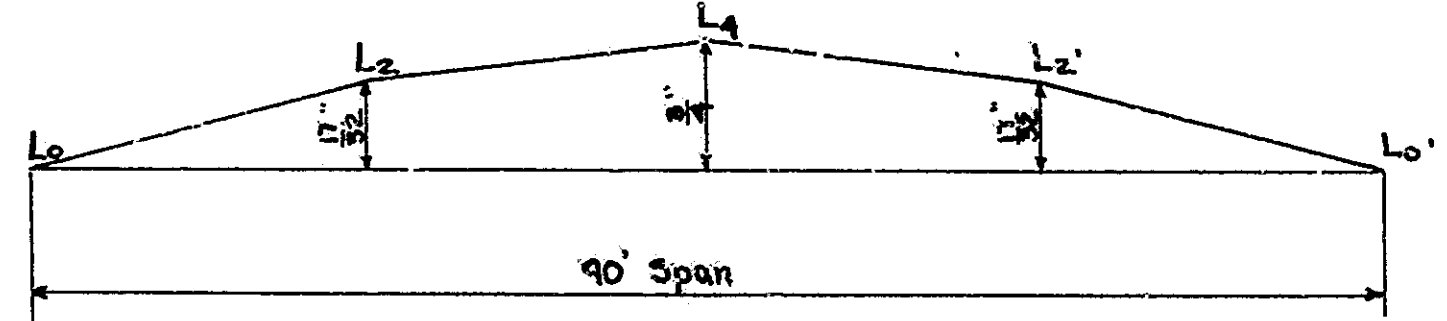
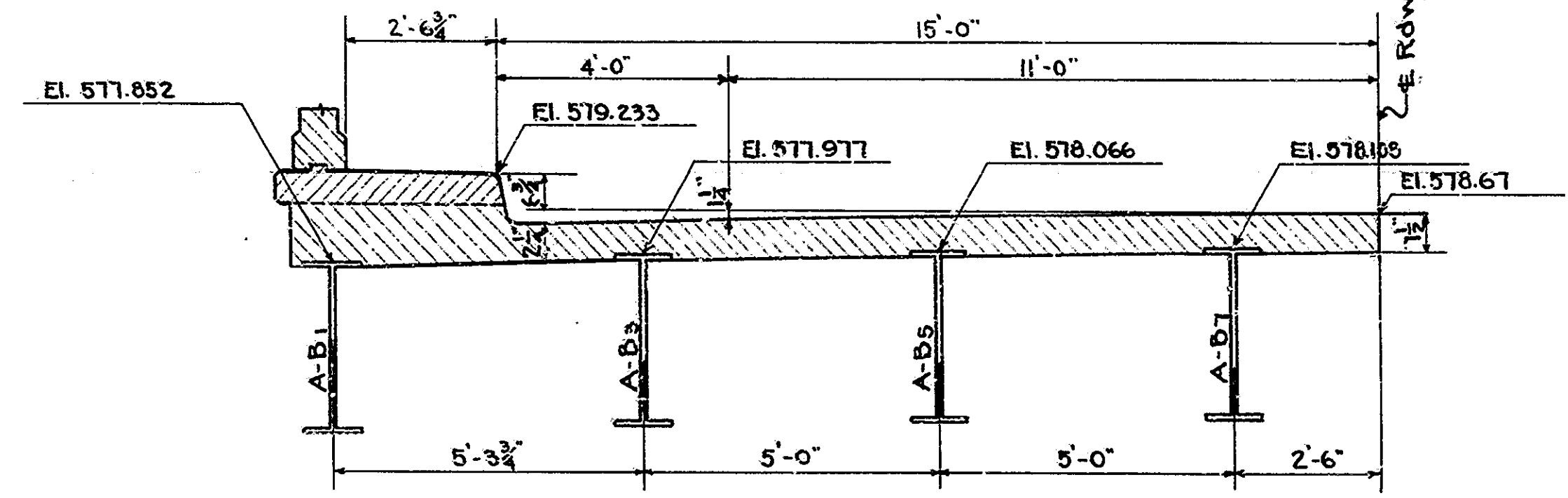
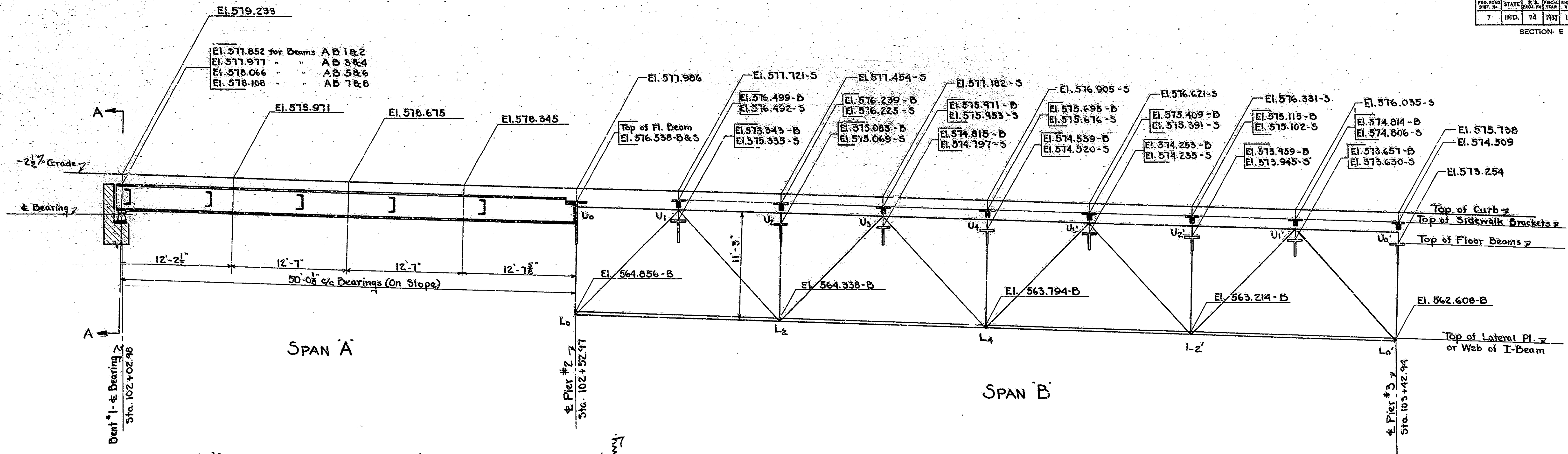
SCALE: NOT TO SCALE
RECOMMENDED FOR APPROVAL: [Signature]
PROJECT: F A 74
SECTION: E
DRAWING: 511 OF 47
STATION: 106+45.47
STRUCTURE NO: 1784
BRIDGE CONTRACT NO. 1454

BRIDGE FILE: 52P-1786

Ord. for Const. Changes: 970-33
Ord. for Const. Changes

BRIDGES OVER 20 SPAN						
NO. ROAD DIST. IN.	STATE	YR. BUILT	TYPE	SPAN	NO. OF SPANS	TOTAL LENGTH
7	IND.	74	1937	16	58	

SECTION - E



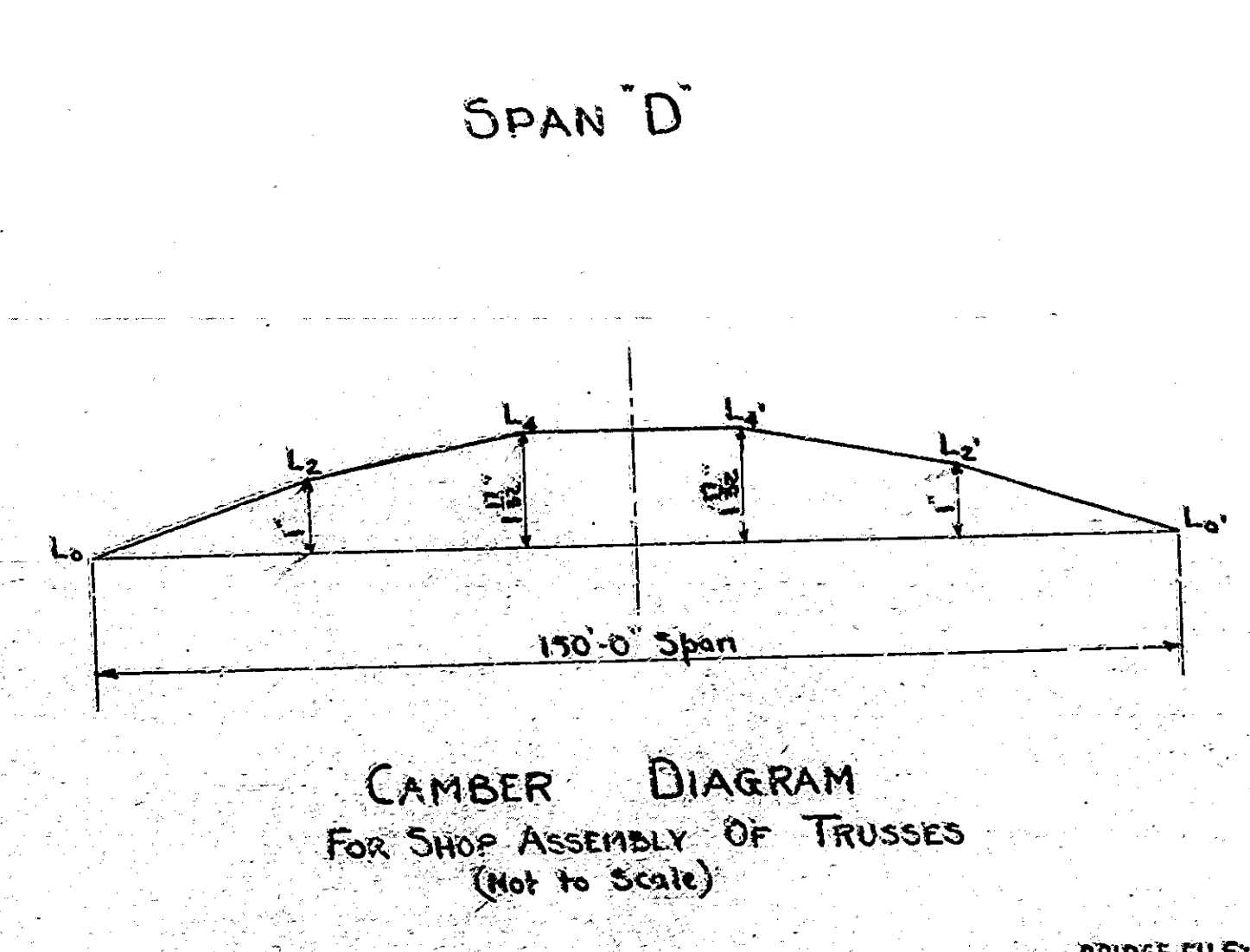
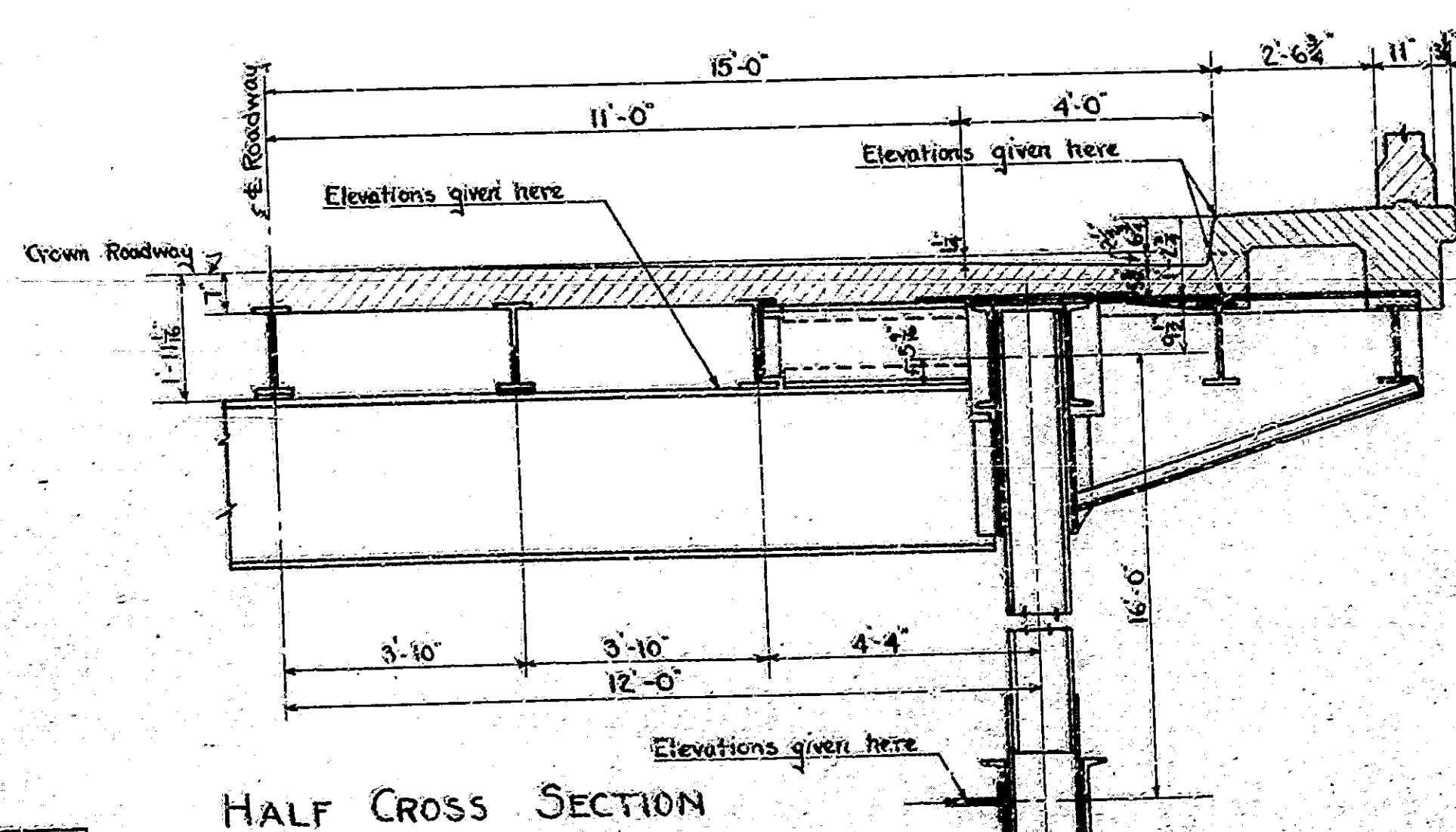
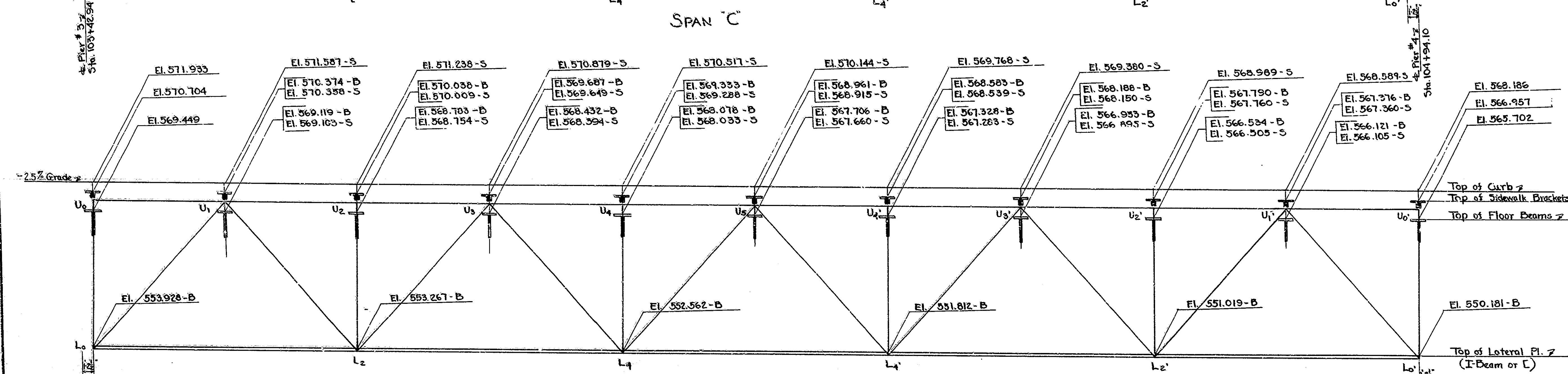
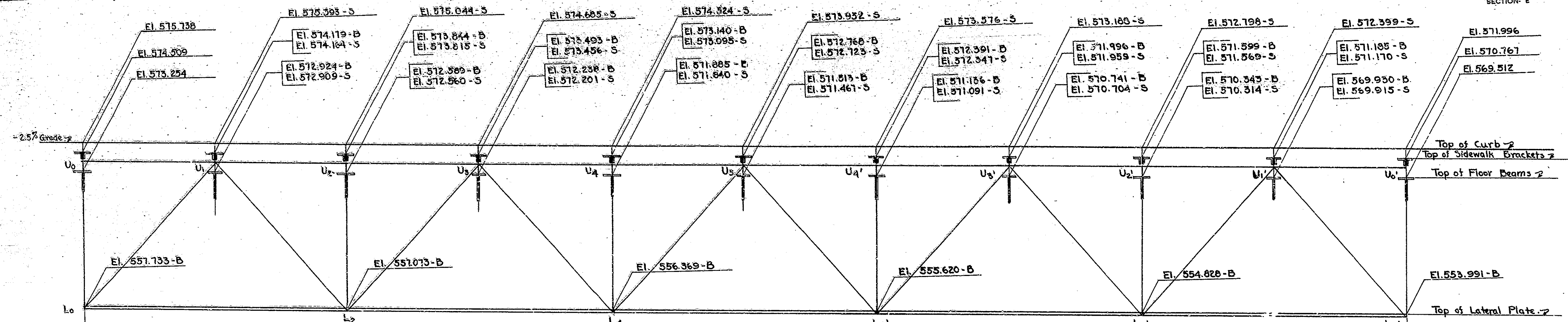
NOTE:-
 Elevations marked 'B' are taken with the Span resting on the blocking.
 Elevations marked 'S' are taken with the Span free and carrying only structural steel.
 The distance from top of Curb to top of Sidewalk Bracket must not be less than 1'-2 1/2" nor more than 1'-3".
 All points for top of curbs on both sides shall be set on each span before any concrete is poured on that span.

SPANS A & B CAMBER DIAGRAM
 STATE HIGHWAY COMMISSION OF INDIANA

SCALE:- NOT TO SCALE
 RECOMMENDED FOR APPROVAL:-
 PROJECT:- F.A. 74
 SECTION:- E
 DRAWING:- Six of 47
 OCTOBER 20, 1936
 STATION:- 108+46.47
 STRUCTURE NO. 1784
 BRIDGE CONTRACT NO. 1454

BRIDGES OVER 20' SPAN					
FED. ROAD DIST. NO.	STATE	R.A. PROJECT NO.	PIERCES	SPANS	DATE
7	IND.	74	1931	15	95

SECTION - E



NOTE:
Elevations marked 'B' are taken with the Span resting on the blocking.
Elevations marked 'S' are taken with the Span free and carrying only Structural Steel.
The distance from top of Curb to top of Sidewalk Bracket must not be less than 1'-2 1/2" or more than 1'-3".
All points for top of curbs on both sides shall be set on each span before any concrete is poured on that span.

SPANS C & D CAMBER DIAGRAMS
STATE HIGHWAY COMMISSION OF INDIANA

SCALE: 3/8" = 1'-0" EXCEPT AS NOTED
RECOMMENDED FOR APPROVAL: *[Signature]*
PROJECT: F.A. 74
SECTION: E
DRAWING: 513 OF 47
BRIDGE CONTRACT NO. 1454

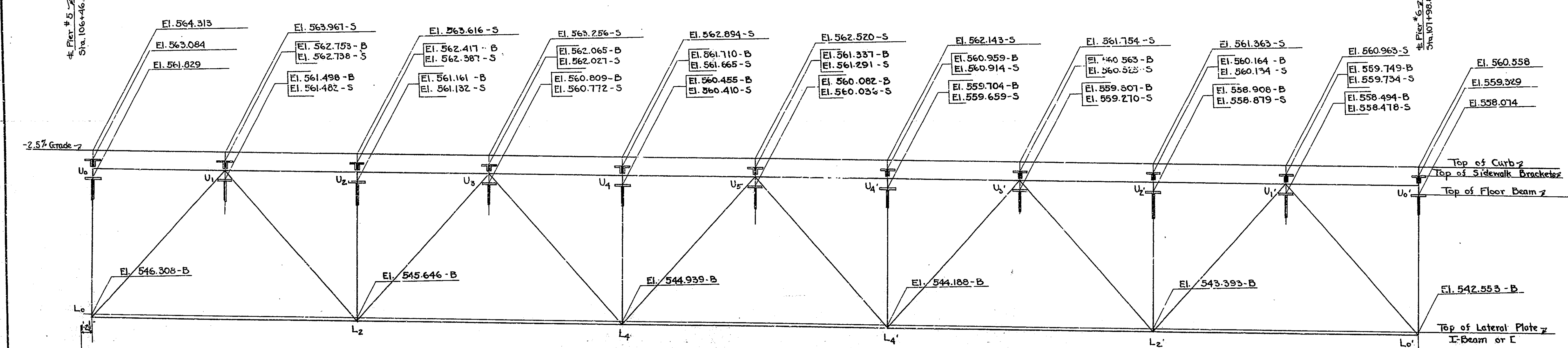
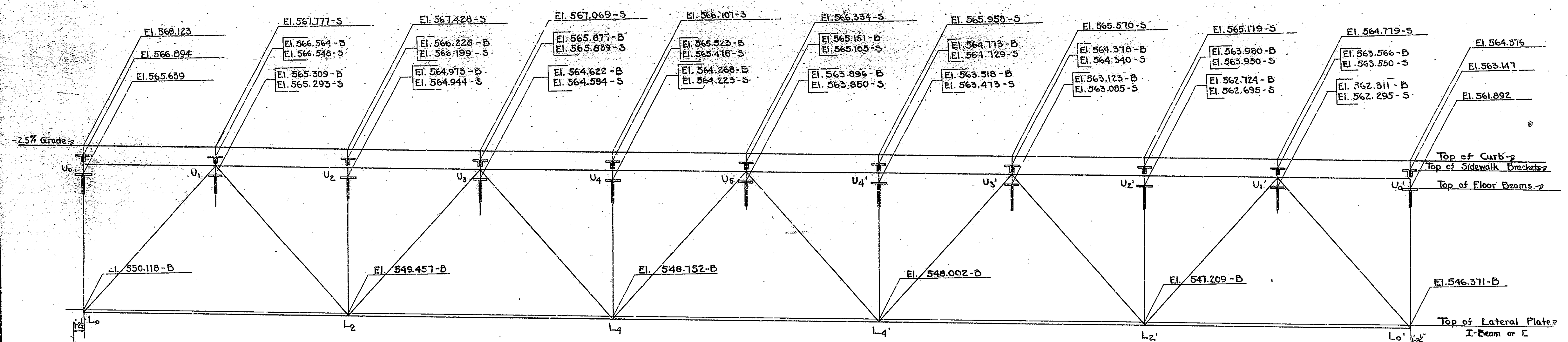
DESIGNED: *[Signature]*
CHECKED: *[Signature]*
DATE: 10/20/36

BRIDGE FILE: 52-P1784

OK'd For Const. Changes: 2-20-39
C.L. For Const. Changes

BRIDGES OVER 20' SPAN					
FED. ROAD DIST. NO.	STATE	S. N.	SPAN	SHEET	TOTAL SHEETS
7	IND.	74	1937	16	58

SECTION - 5



HALF CROSS SECTION AND CAMBER DIAGRAM FOR SHOP ASSEMBLY FOR SPANS E & F SAME AS FOR SPANS C & D (SEE DWG. S.II)

NOTE:
Elevations marked 'B' are taken with the Span resting on the blocking.
Elevations marked 'S' are taken with the Span free and carrying only structural steel.
The distance to top curb from top of sidewalk bracket must not be less than 1' 2" or more than 1' 3".
All points for top of curbs on both sides shall be set on each span before any concrete is poured on that span.

SPANS E & F CAMBER DIAGRAMS
STATE HIGHWAY COMMISSION OF INDIA

SCALE: 3/16" = 1'-0"
OCTOBER 20, 1936
RECOMMENDED FOR APPROVAL: [Signature]

PROJECT: F.H. 74
SECTION: E
STATION: 106+46.47
STRUCTURE NO. 1784
DRAWING: 518 OF 27
BRIDGE CONTRACT NO. 1454

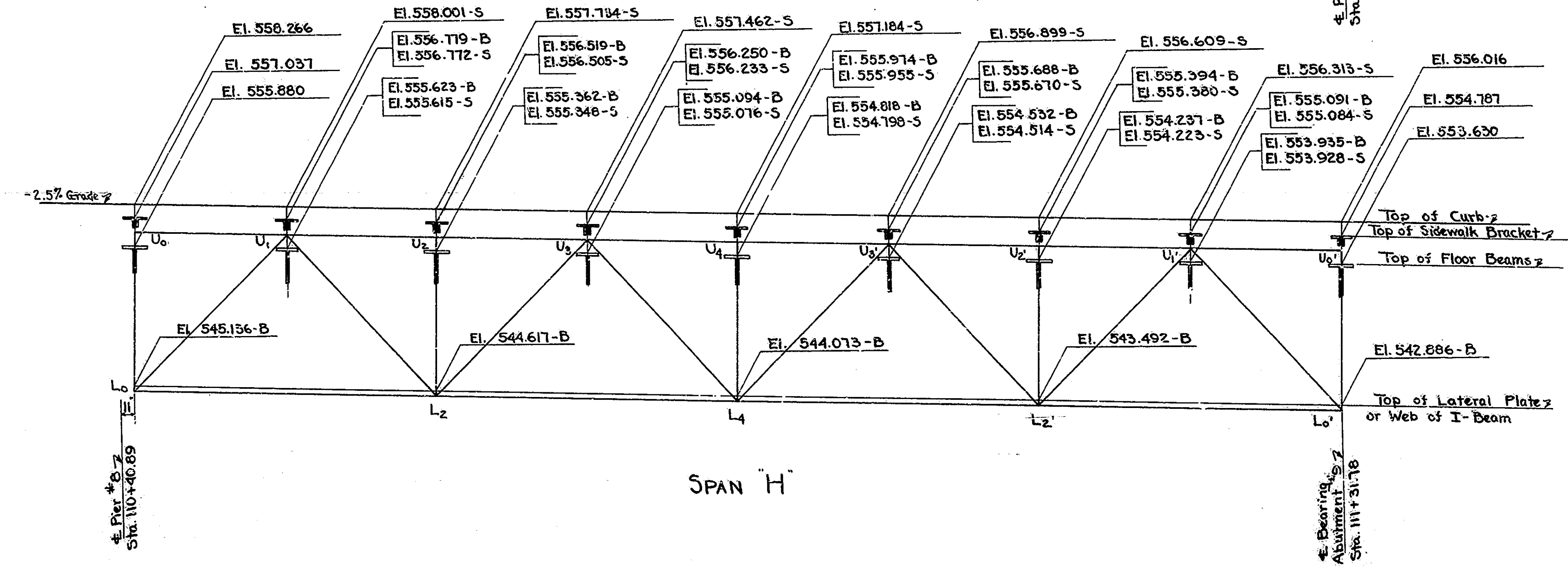
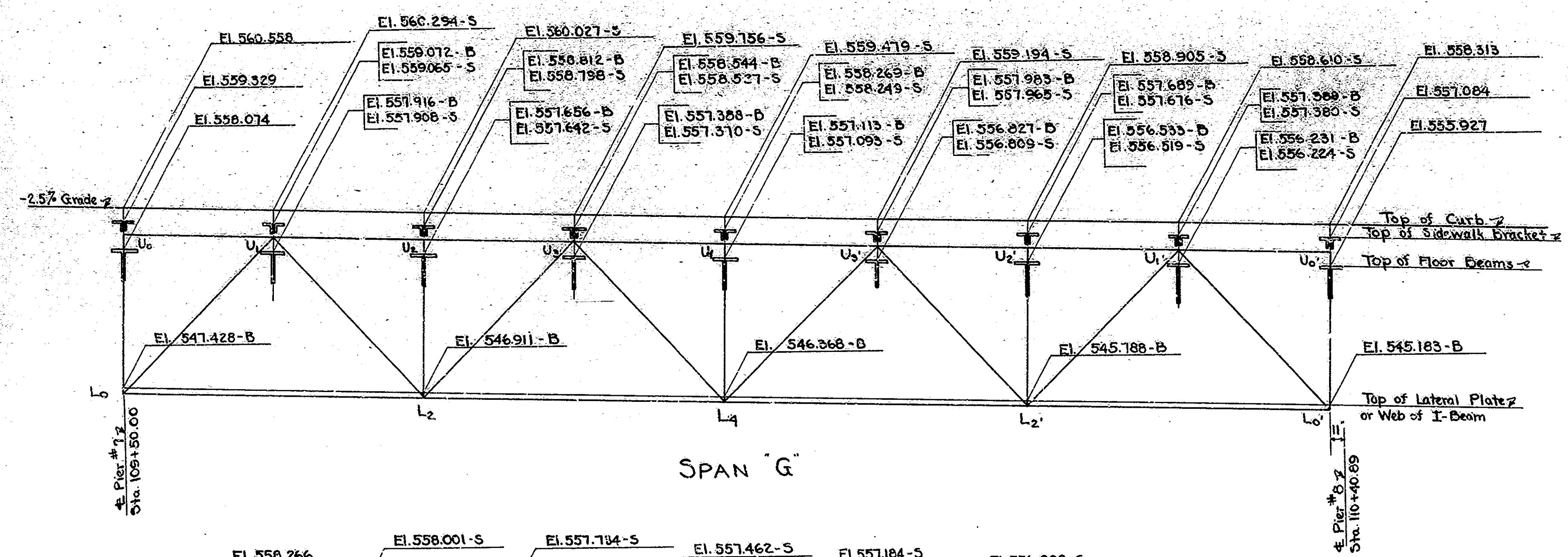
DESIGNED BY: W.C.M. 9-1-36
DRAWN BY: R.B.N. 9-1-36
CHECKED BY: R.B.N. 9-1-36

BRIDGE FILE: 52-P-1784

Ckd. for Constn: Chandra

BRIDGES OVER 20' SPAN						
FED. ROAD DIST. NO.	STATE	K.M. PROJ. NO.	YEAR	INSTR. NO.	SHEET NO.	TOTAL SHEETS
7	IND.	74	1937	17	58	

SECTION: E



NOTE:-
 Elevations marked "B" are taken with the Span resting on the blocking.
 Elevations marked "S" are taken with the Span free and carrying only Structural Steel.
 The distance from top of Curb to top of Sidewalk Bracket must not be less than 1'-2" or more than 1'-3".
 All points for top of curbs on both sides shall be set on each span before any concrete is poured on that span.

HALF CROSS SECTION AND CAMBER DIAGRAM FOR SHOP ASSEMBLY FOR SPANS G & H SAME AS FOR SPAN "B". (SEE DWG. S 10)

SPANS G & H CAMBER DIAGRAMS
STATE HIGHWAY COMMISSION OF INDIANA

SCALE: 7/8" = 1'-0"
 OCTOBER 20, 1936
 RECOMMENDED FOR APPROVAL: *J. Christopher*
 PROJECT: F.A. 74 STATION: 108+46.47
 SECTION: E STRUCTURE NO. 1784
 DRAWING: S 15 OF 47 BRIDGE CONTRACT NO. 1454

DESIGNED BY: J. L. ...
 DRAWN BY: M. ...
 CHECKED BY: B. ...

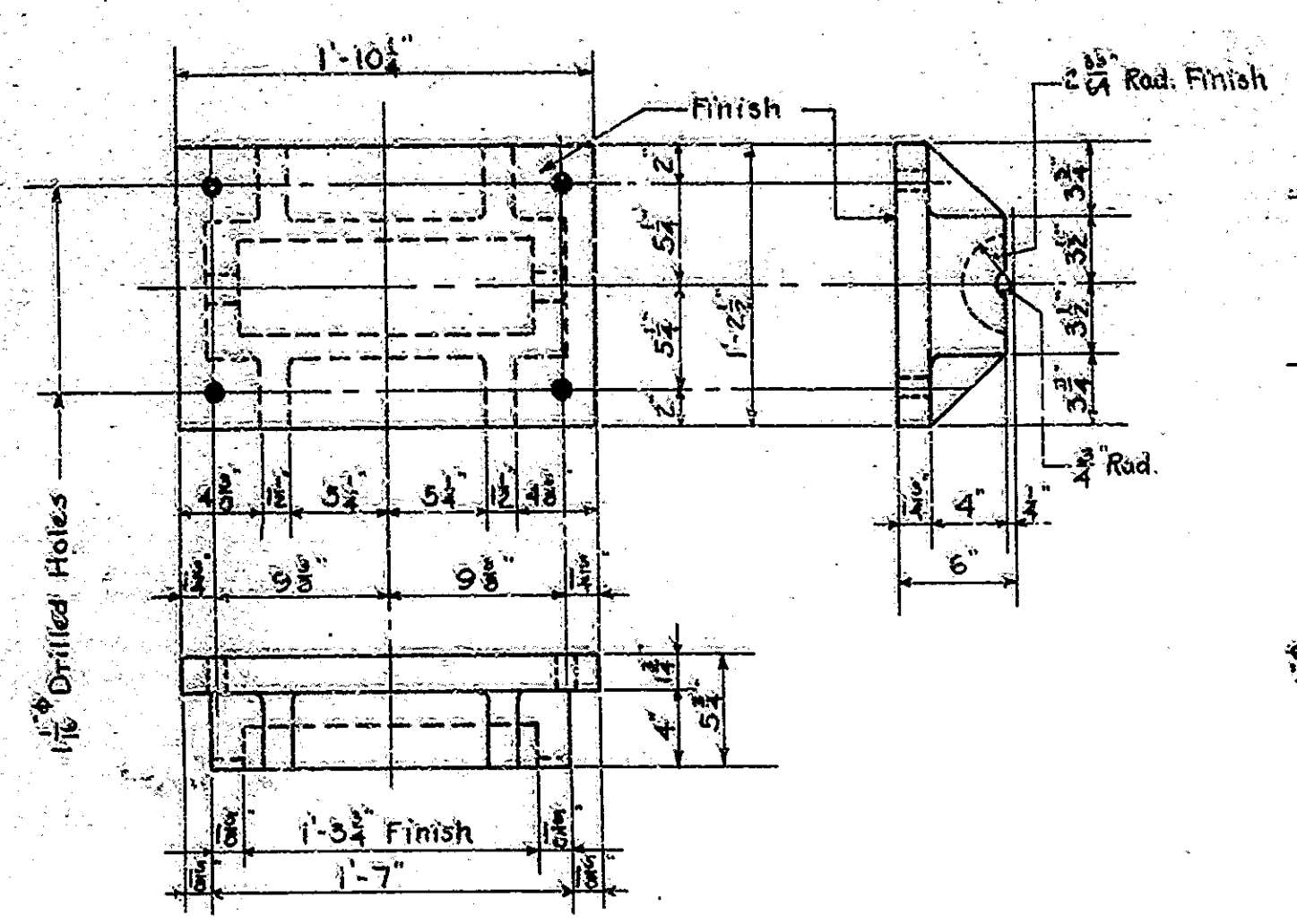
BRIDGE FILE: P-1734

CHG. FOR CONSTRUCTION CHANGES

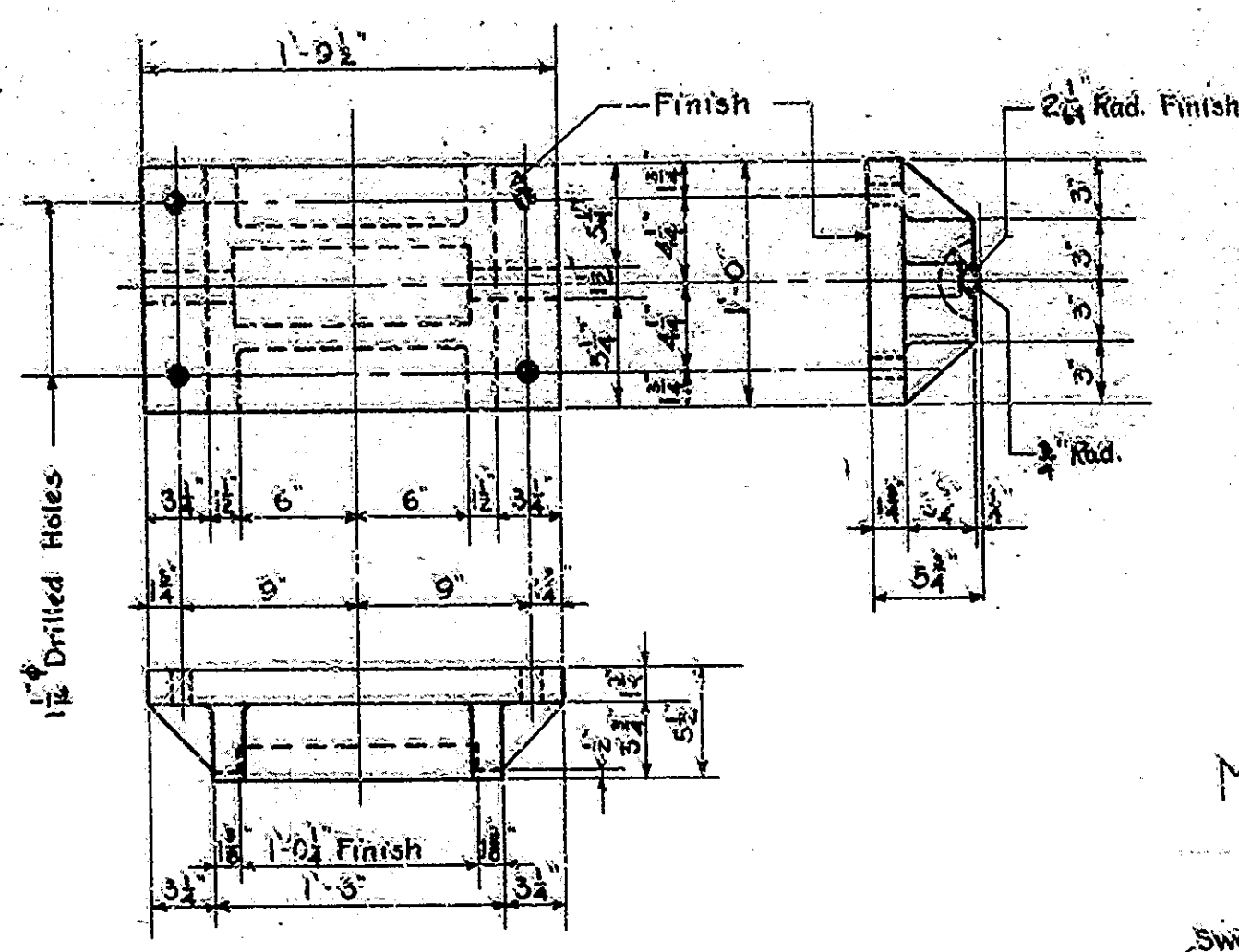
skd. for Const. Changes

BRIDGES OVER 20' SPAN				
DESIGN	STATE	SECTION	DATE	BY
7	IND.	74	1936	18

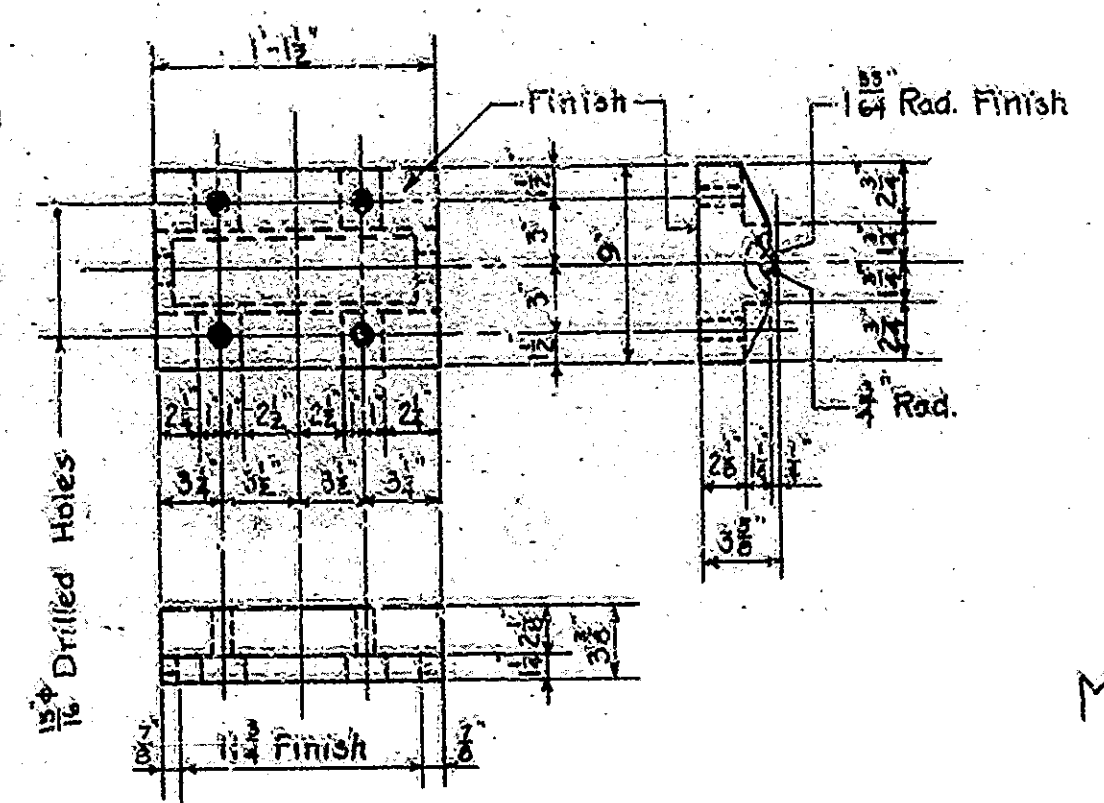
SECTION - E



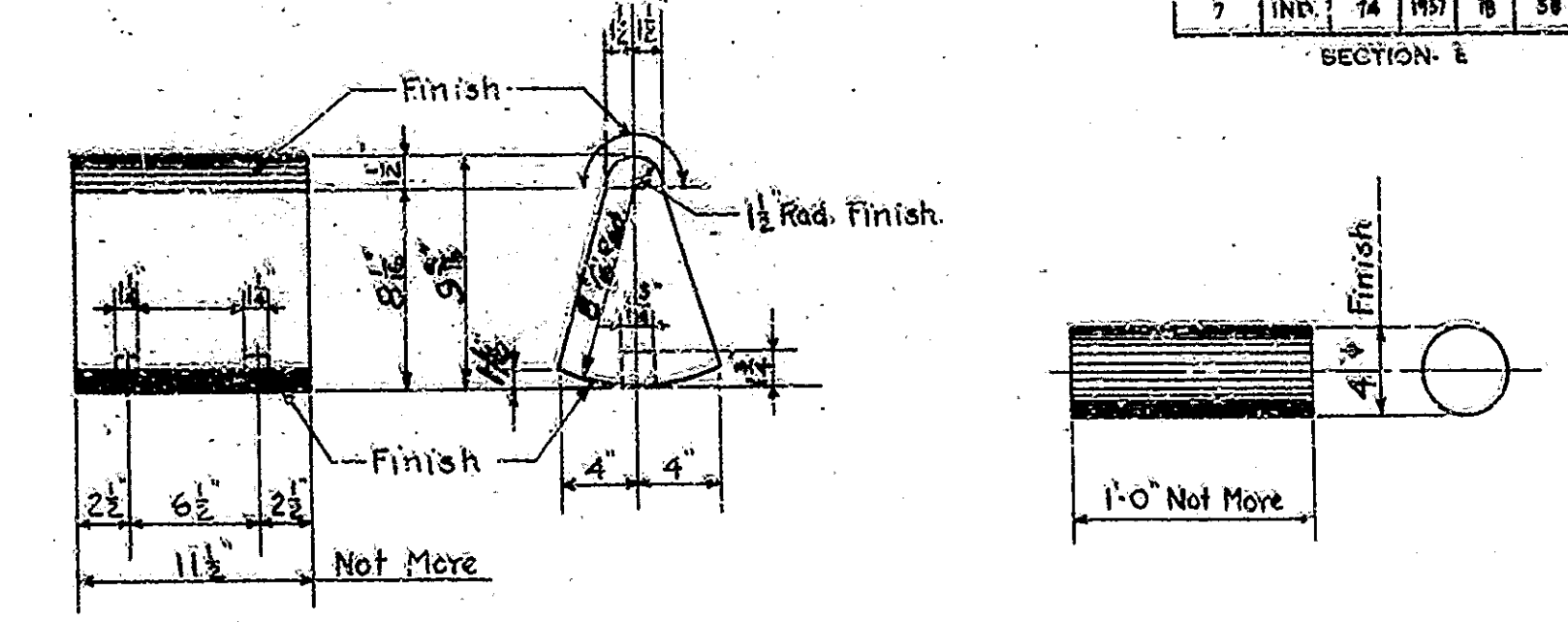
MAKE 16 CAST STEEL TOP SHOES MARK TS-1



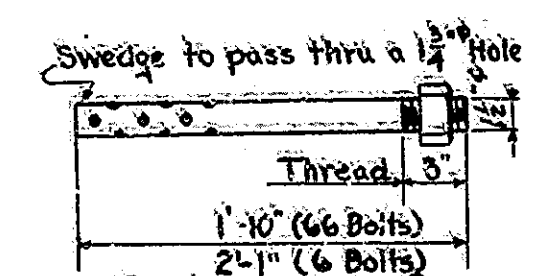
MAKE 20 CAST STEEL TOP SHOES MARK TS-2



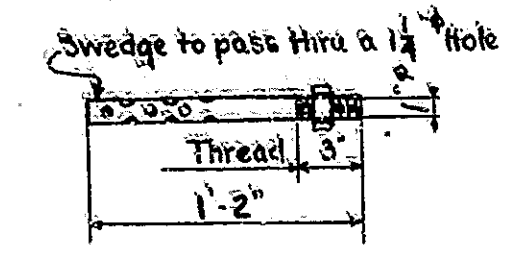
MAKE 8 CAST STEEL TOP SHOES MARK TS-3



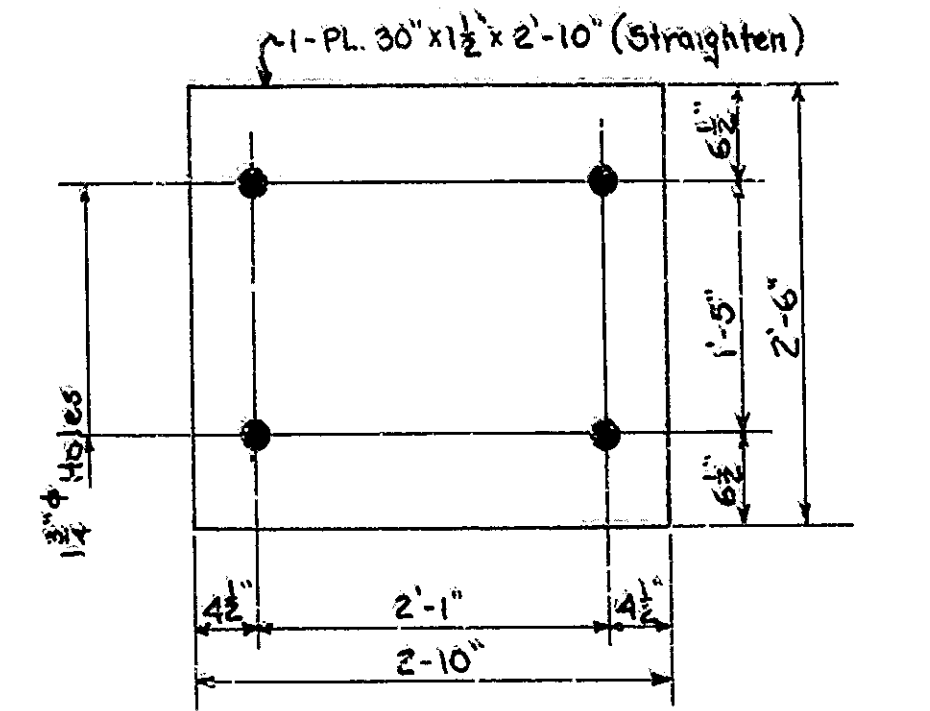
MAKE 8 CAST STEEL EXPANSION ROCKERS MARK ES-3
MAKE 6 STEEL PINS MARK P-1



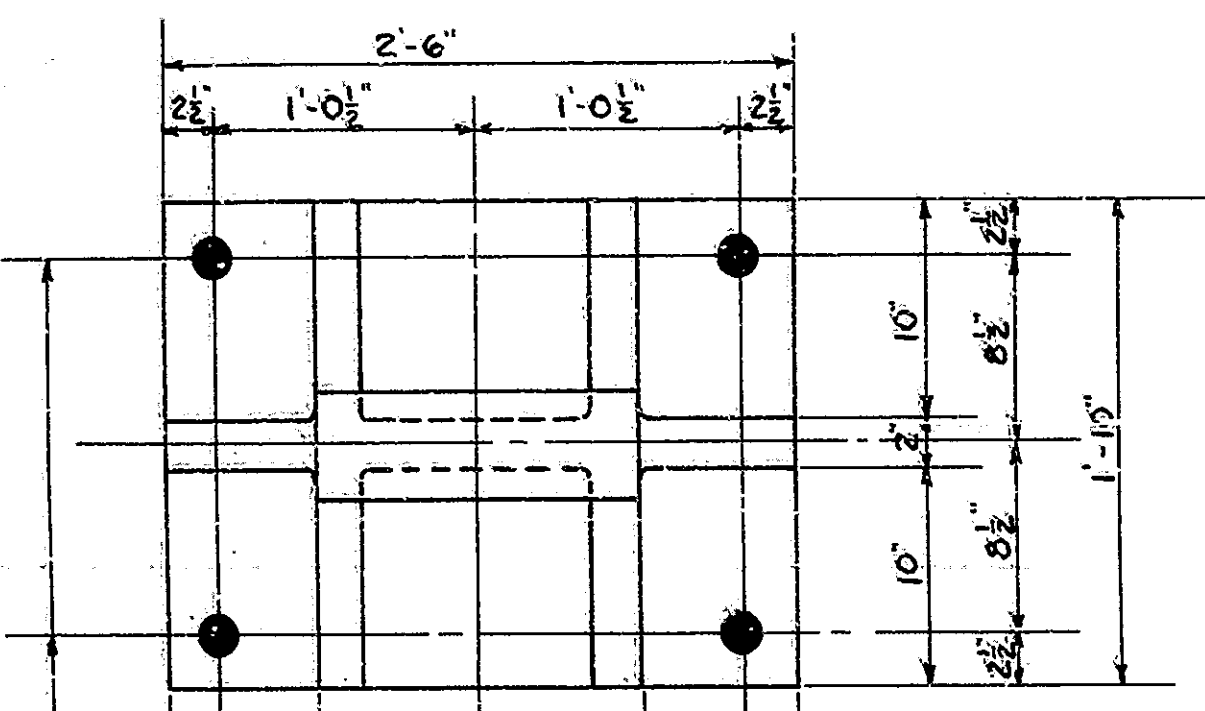
MAKE 6 ANCHOR BOLTS - 2'-1" Long (Use at Pier #3 only)
MAKE 66 ANCHOR BOLTS - 1'-10" Long (FOR ALL TRUSS SHOES.)



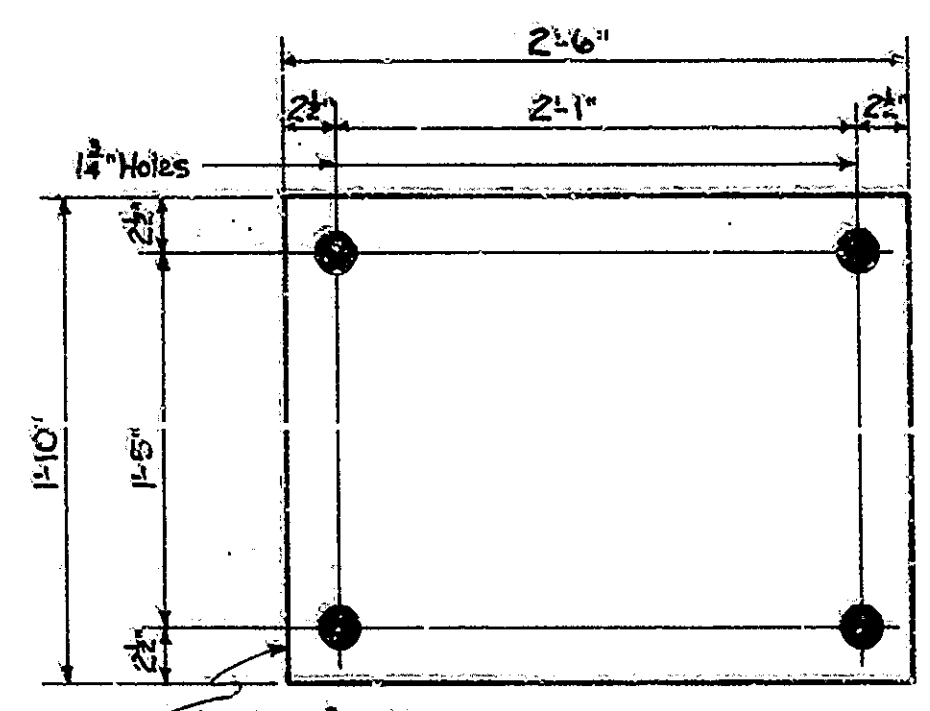
MAKE 16 ANCHOR BOLTS FOR I-BEAM BEARING PLATES



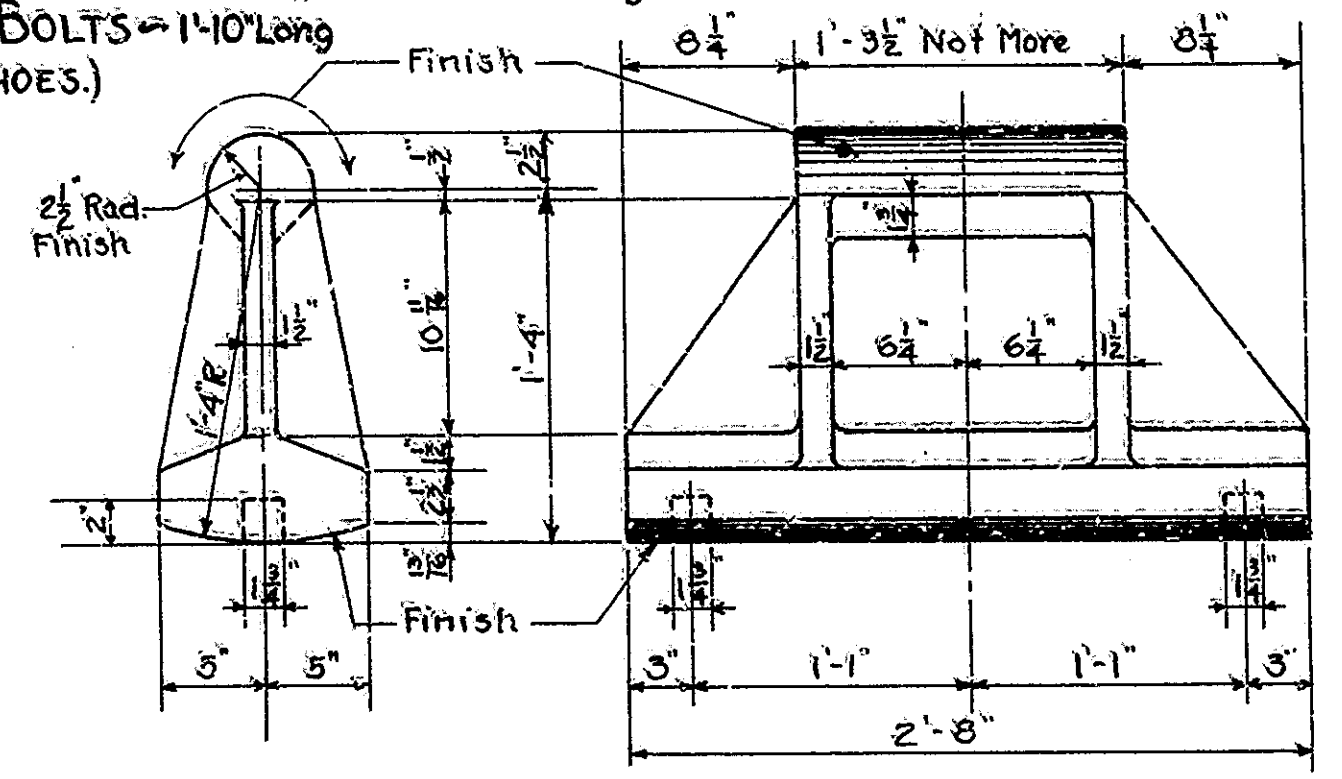
MAKE 4 BEARING PLS. MARK BP-5



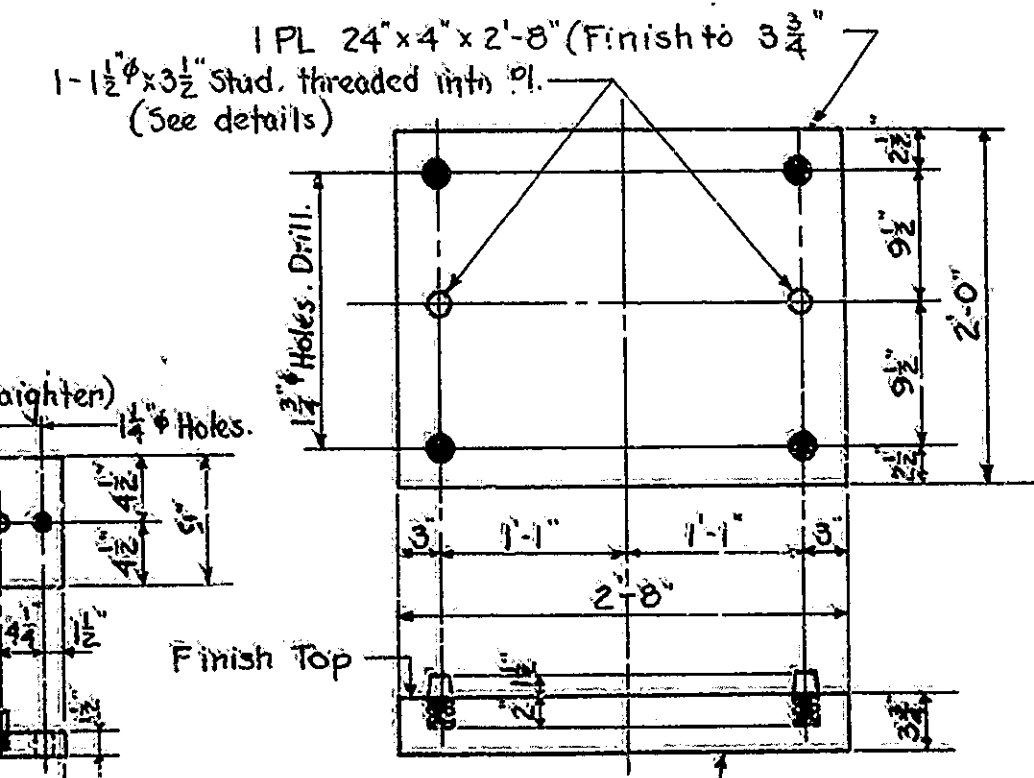
MAKE 8 CAST STEEL FIXED SHOES MK FS-1



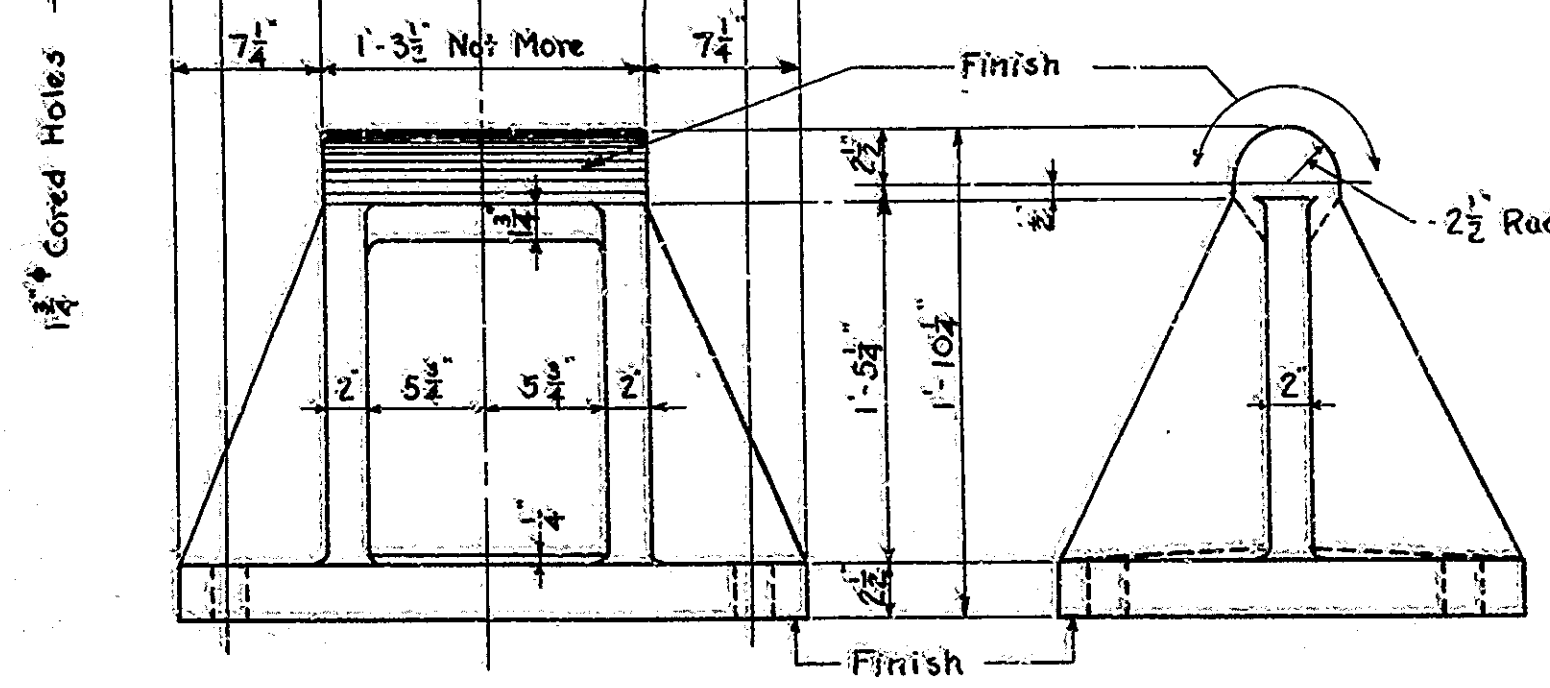
MAKE 2 BEARING PLS. MARK BP-6 (Use at Pier No. 3)



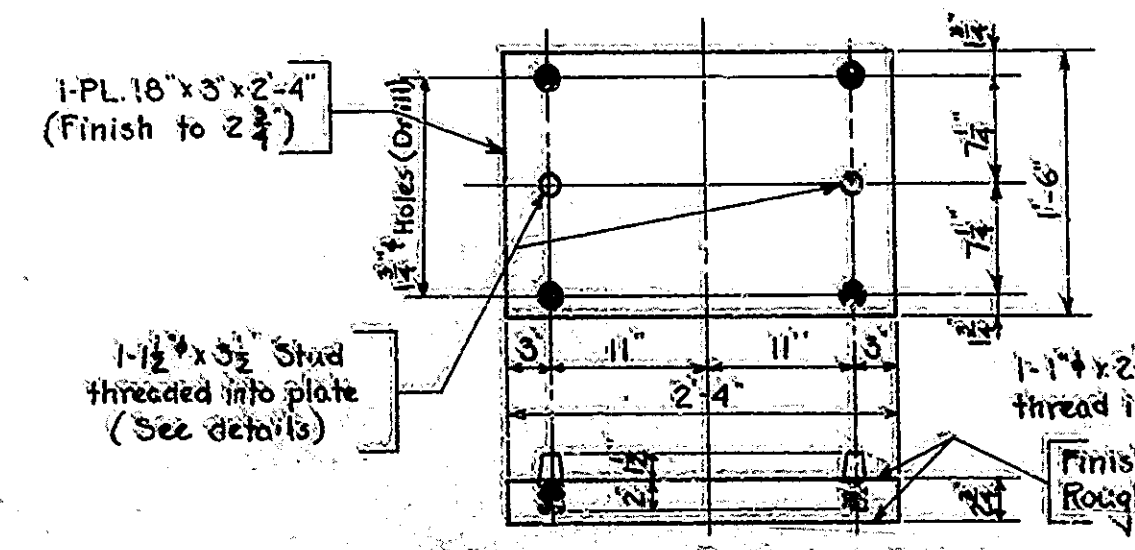
MAKE 8 CAST STEEL ROCKER SHOES MK ES-1



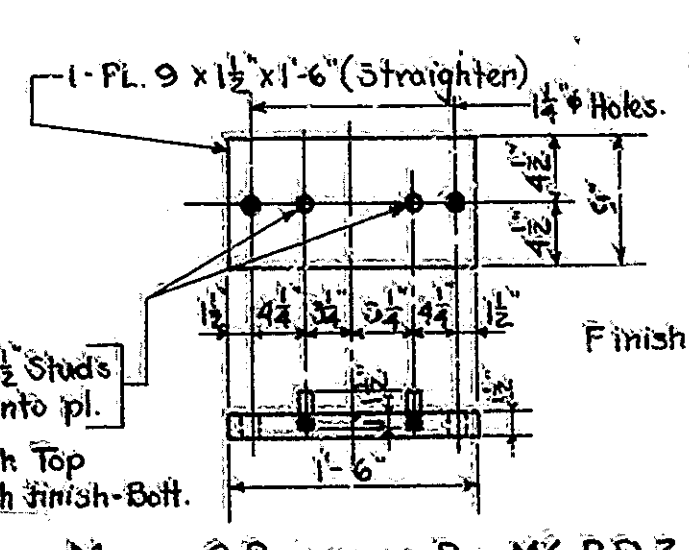
MAKE 2 BEARING PLS. MK BP-4



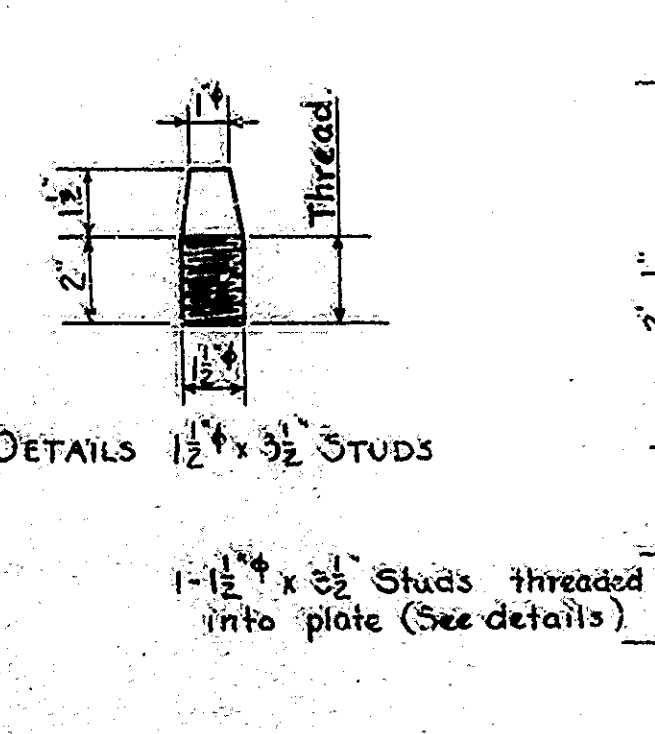
MAKE 8 CAST STEEL FIXED SHOES MK FS-1



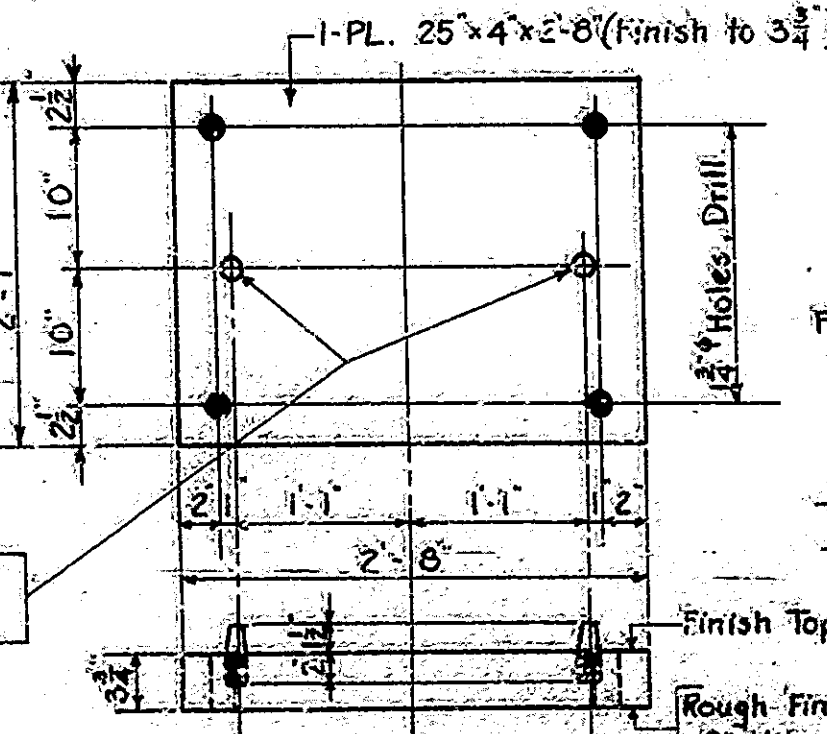
MAKE 6 BEARING PLS. MK BP-2



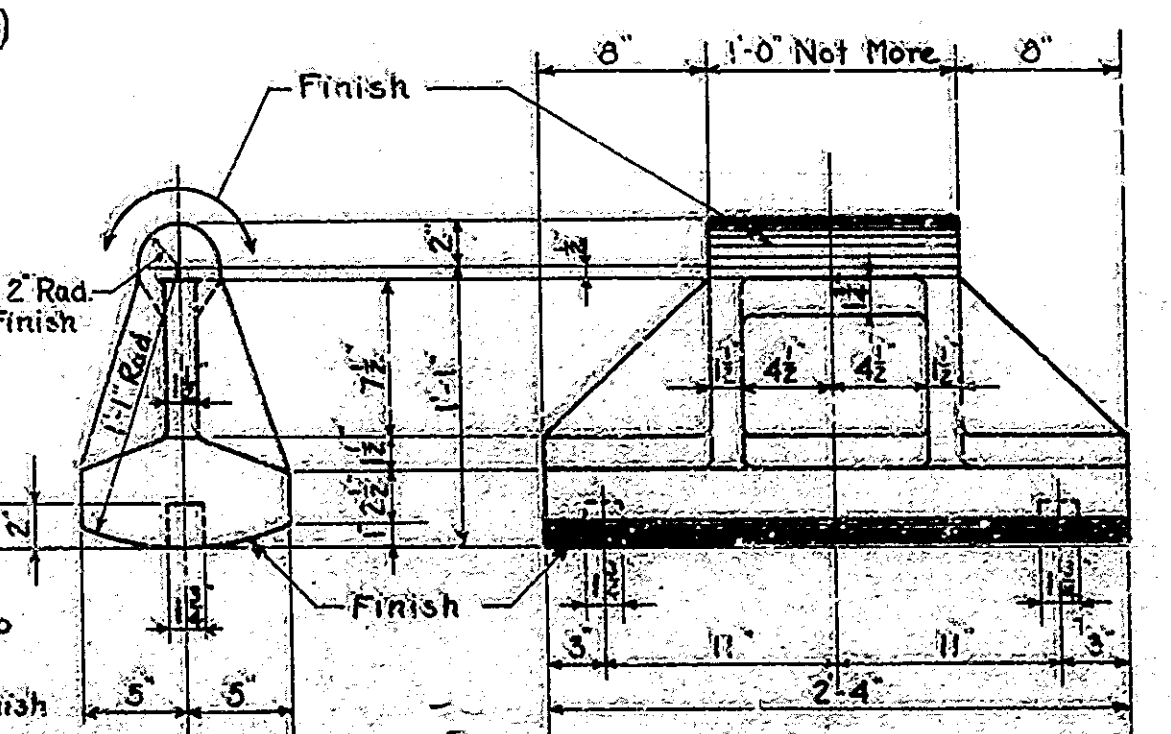
MAKE 8 BEARING PLS. MK BP-3



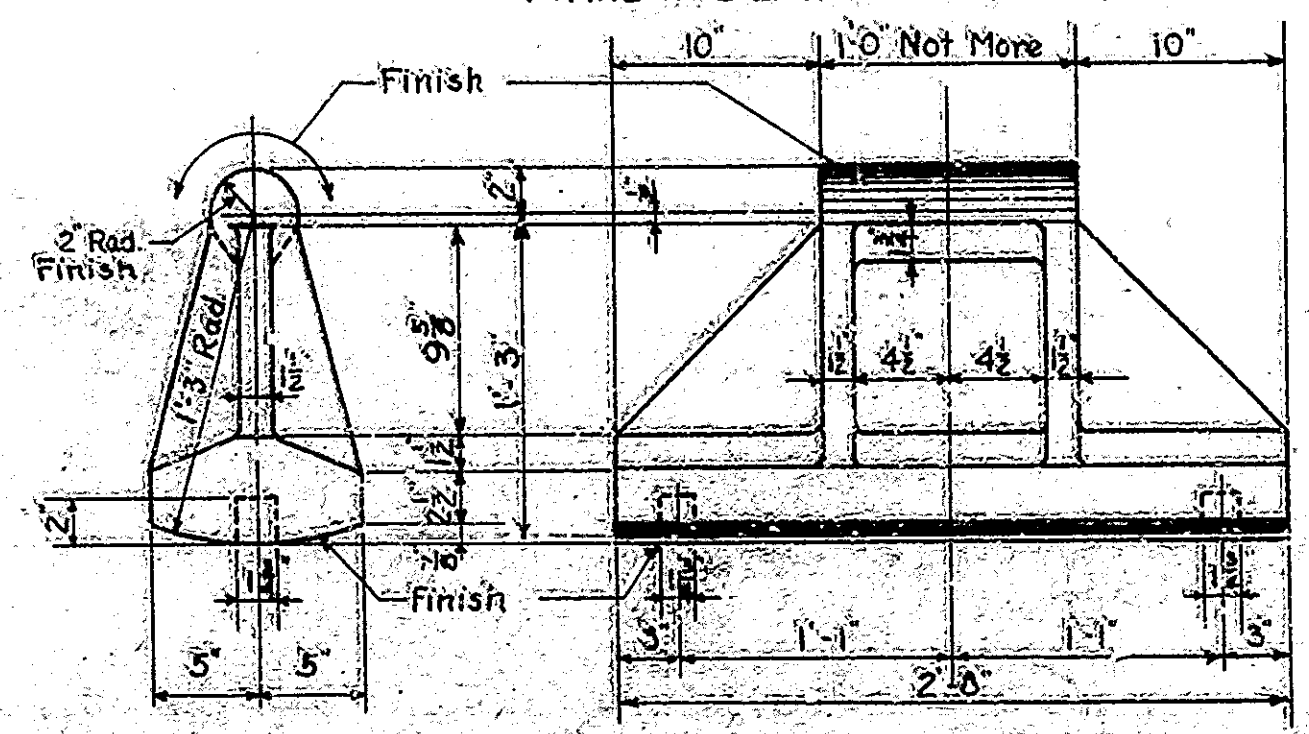
DETAILS 1 1/2" x 3/4" STUDS



MAKE 8 BEARING PLS. MARK BP-1



MAKE 6 CAST STEEL ROCKER SHOES MARK ES-2



MAKE 2 CAST STEEL ROCKER SHOES MARK ES-4

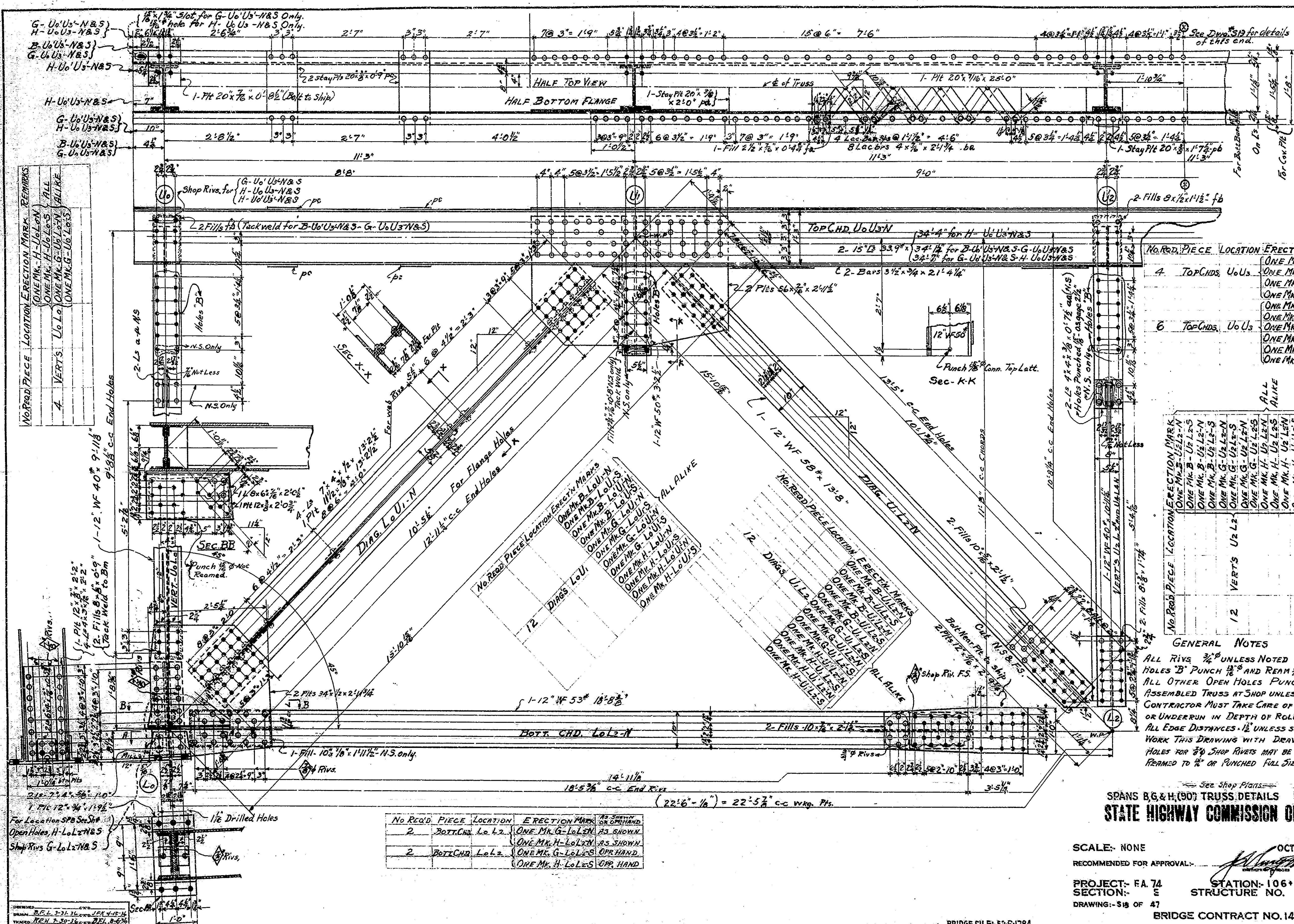
Note: All material on this drawing to be Structural Steel unless otherwise noted.

SHOE DETAILS
STATE HIGHWAY COMMISSION OF INDIA

SCALE: NONE
RECOMMENDED FOR APPROVAL:
PROJECT: F.A. 74
SECTION: E
DRAWING: 56 OF 57
STATION: 106+46.47
STRUCTURE NO. 1784
BRIDGE CONTRACT NO. 1454
OCTOBER 20, 1936

Approved: A.M.W. 11-6-36
Checked: C.A.F. 3-25-36
Drawn: R.D.N. 5-24-36

BRIDGE FILE: 52-P1734



NO. REQ'D. PIECE LOCATION ERECTION MARK REMARKS

4	VERTS. UoLo	(ONE MK. H-UoLo-N) (ONE MK. H-UoLo-S) (ONE MK. G-UoLo-N) (ONE MK. G-UoLo-S)	ALL ALIKE
---	-------------	--	-----------

NO. REQ'D. PIECE LOCATION ERECTION MARK AS SHOWN OR OTHERWISE

4	TOP CHDS. UoUs	(ONE MK. G-UoUs-N) (ONE MK. B-UoUs-S) (ONE MK. G-UoUs-S) (ONE MK. B-UoUs-N)	ALL ALIKE
6	TOP CHDS. UoUs	(ONE MK. G-UoUs-N) (ONE MK. H-UoUs-S) (ONE MK. H-UoUs-N) (ONE MK. H-UoUs-S)	ALL ALIKE

NO. REQ'D. PIECE LOCATION ERECTION MARK AS SHOWN OR OTHERWISE

12	VERTS. UoLs	(ONE MK. B-UoLs-N) (ONE MK. B-UoLs-S) (ONE MK. G-UoLs-N) (ONE MK. G-UoLs-S) (ONE MK. H-UoLs-N) (ONE MK. H-UoLs-S)	ALL ALIKE
6	VERTS. UoLs	(ONE MK. B-UoLs-N) (ONE MK. B-UoLs-S) (ONE MK. G-UoLs-N) (ONE MK. G-UoLs-S) (ONE MK. H-UoLs-N) (ONE MK. H-UoLs-S)	ALL ALIKE

GENERAL NOTES

ALL RIVS 3/8" UNLESS NOTED
 HOLES "B" PUNCH 1/8" AND REAM 1/16" TO STEEL TEMPLET
 ALL OTHER OPEN HOLES PUNCH 1/8" AND REAM 1/16" IN ASSEMBLED TRUSS AT SHOP UNLESS NOTED
 CONTRACTOR MUST TAKE CARE OF OVER-RUN OR UNDER-RUN IN DEPTH OF ROLLED BEAMS USED IN TRUSS.
 ALL EDGE DISTANCES 1/2" UNLESS SHOWN OTHERWISE.
 WORK THIS DRAWING WITH DRAWING NO. 519.
 HOLES FOR 3/8" SHOP RIVETS MAY BE PUNCHED TO 3/8" AND REAMED TO 1/2" OR PUNCHED FULL SIZE UNLESS NOTED.

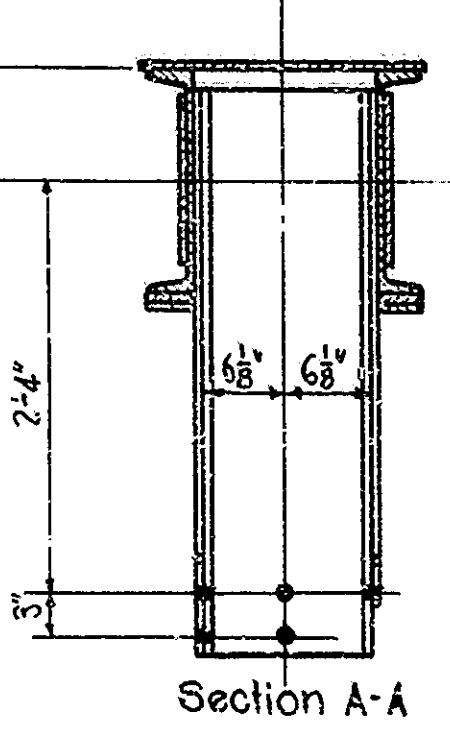
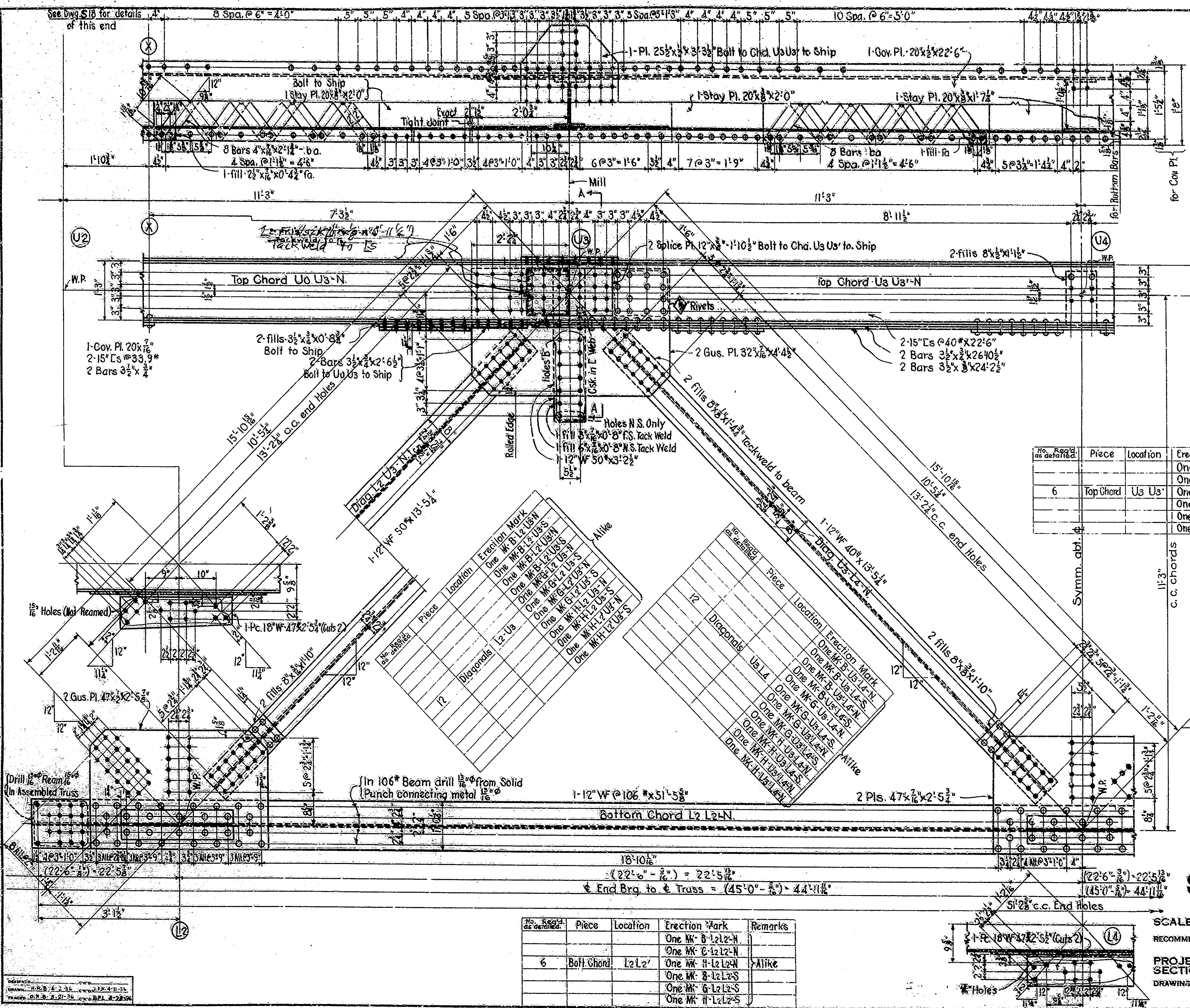
NO. REQ'D. PIECE LOCATION ERECTION MARK AS SHOWN OR OTHERWISE

2	BOTT. CHD. LoLs	(ONE MK. G-LoLs-N) (ONE MK. H-LoLs-S)	ALL ALIKE
2	BOTT. CHD. LoLs	(ONE MK. G-LoLs-S) (ONE MK. H-LoLs-N)	ALL ALIKE

SPANS B.G. & H. (90') TRUSS DETAILS Lo To L2
STATE HIGHWAY COMMISSION OF INDIANA

SCALE: NONE
 RECOMMENDED FOR APPROVAL: [Signature]
 PROJECT: FA 74 STATION: 106+46.47
 SECTION: E STRUCTURE NO. 1784
 DRAWING: 519 OF 47
 BRIDGE CONTRACT NO. 1454
 OCTOBER 20, 1936

BRIDGES OVER 20' SPAN						
NO. PROJ. STAT. P.C. I.C. P.O. TOTAL LENGTH	STAT. P.C.	STAT. I.C.	STAT. P.O.	NO. OF SPANS	NO. OF PILES	NO. OF PIERS
7 IND. 74 1931 21 55						



No. Req'd as detailed	Piece	Location	Erection Mark	Remarks
			One MK-B-U0-U3-N	
			One MK-G-U0-U3-N	
6	Top Chord	U0-U3	One MK-H-U0-U3-N	Alike
			One MK-B-U0-U3-S	
			One MK-G-U0-U3-S	
			One MK-H-U0-U3-S	

No. Req'd as detailed	Piece	Location	Erection Mark	Remarks
			One MK-B-L2-L2-N	
			One MK-E-L2-L2-N	
6	Bottom Chord	L2-L2	One MK-H-L2-L2-N	Alike
			One MK-B-L2-L2-S	
			One MK-E-L2-L2-S	
			One MK-H-L2-L2-S	

No. Req'd as detailed	Piece	Location	Erection Mark	Remarks
12	Diagonals	U0-U3	One MK-B-U0-U3-N	
			One MK-B-U0-U3-S	
			One MK-G-U0-U3-N	
			One MK-G-U0-U3-S	
			One MK-H-U0-U3-N	
			One MK-H-U0-U3-S	
			One MK-B-L2-L2-N	
			One MK-B-L2-L2-S	
			One MK-G-L2-L2-N	
			One MK-G-L2-L2-S	
			One MK-H-L2-L2-N	
			One MK-H-L2-L2-S	

GENERAL NOTES:-
 All Rivets $\frac{3}{8}$ " Unless Noted.
 Holes "B" Punch $\frac{1}{16}$ " and Ream $\frac{1}{16}$ " to Steel Template.
 All other open holes-Punch $\frac{1}{16}$ " and Ream $\frac{1}{16}$ " in assembled Truss at shop, unless noted.
 Contractor must take care of overrun or under-run in depth of Rolled Beams used in Trusses.
 All edge distances $\frac{1}{2}$ " unless shown otherwise.
 Work this Drawing with Drawing 510
 Holes for $\frac{3}{8}$ " Shop Rivets may be Punched $\frac{3}{8}$ " and Reamed to $\frac{1}{2}$ " or Punched full size, unless noted.

SPANS: 86' & 111' TRUSS DETAILS L2 TO L4
 STATE HIGHWAY COMMISSION OF INDIANA

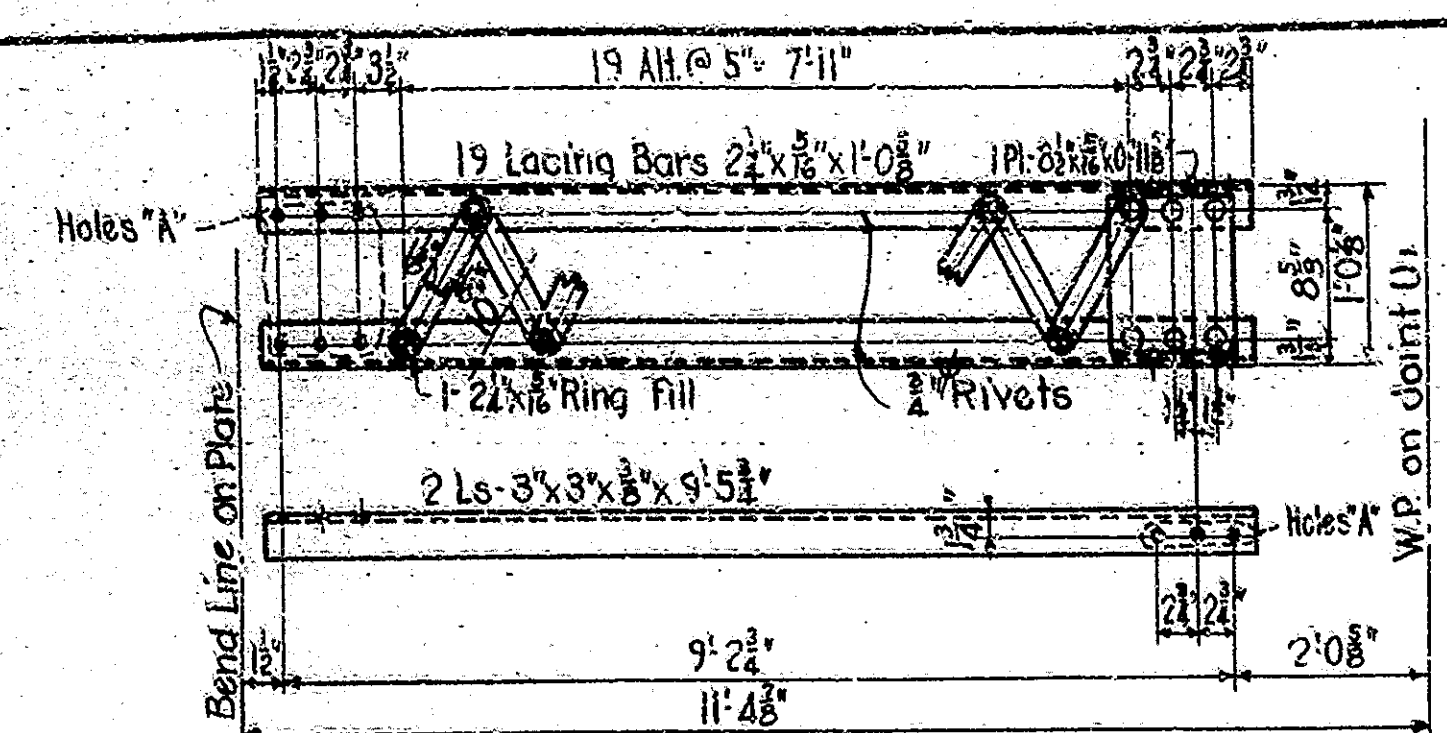
SCALE: NONE
 RECOMMENDED FOR APPROVAL: [Signature]
 PROJECT: R.A. 74
 SECTION: E
 DRAWING: 519 OF 47
 BRIDGE CONTRACT NO. 1454
 OCTOBER 20, 1936
 STATION: 106+46.47
 STRUCTURE NO. 1784

No. Req'd as detailed	Piece	Location	Erection Mark	Remarks
			One MK-B-L2-L2-N	
			One MK-E-L2-L2-N	
6	Bottom Chord	L2-L2	One MK-H-L2-L2-N	Alike
			One MK-B-L2-L2-S	
			One MK-E-L2-L2-S	
			One MK-H-L2-L2-S	

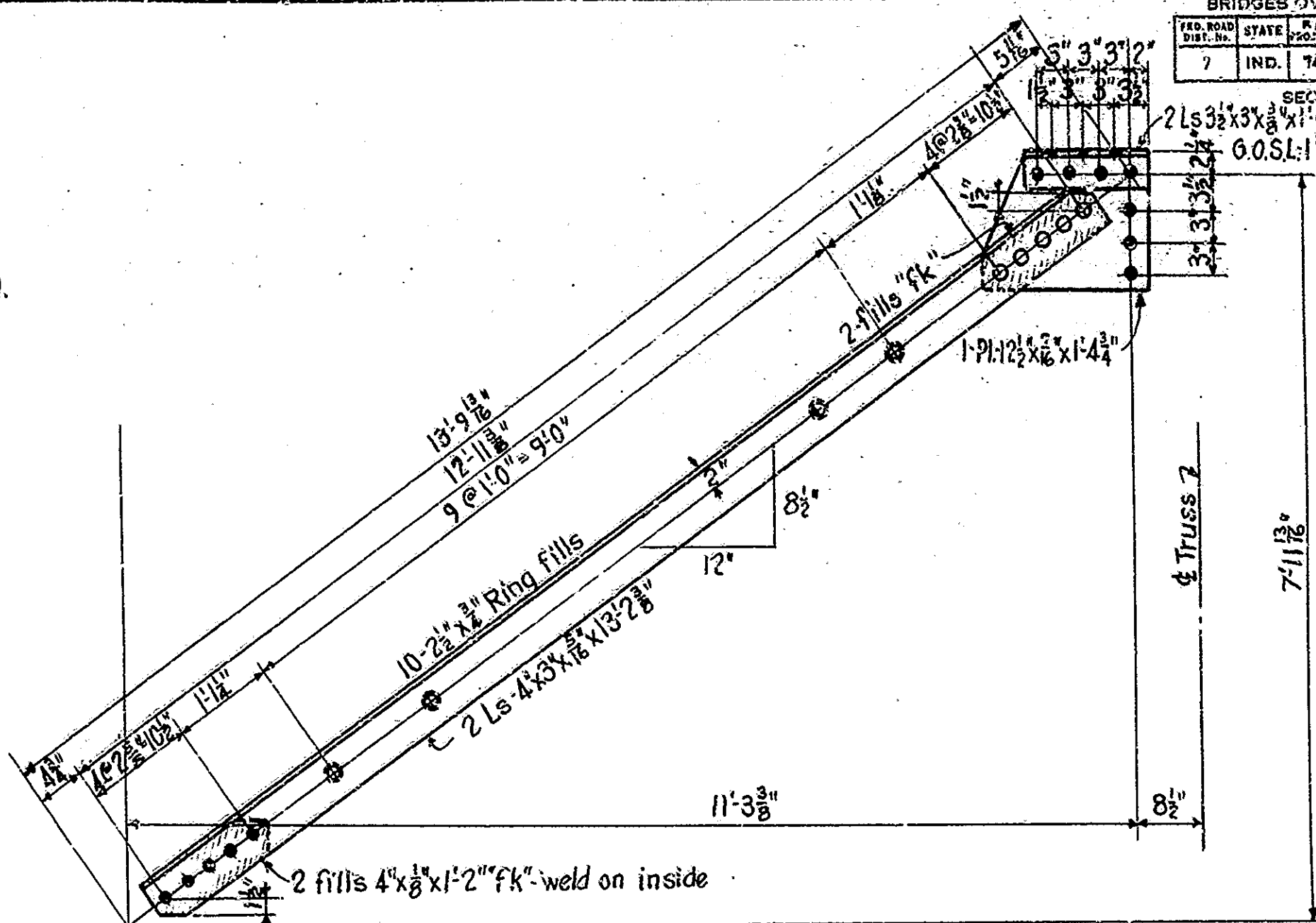
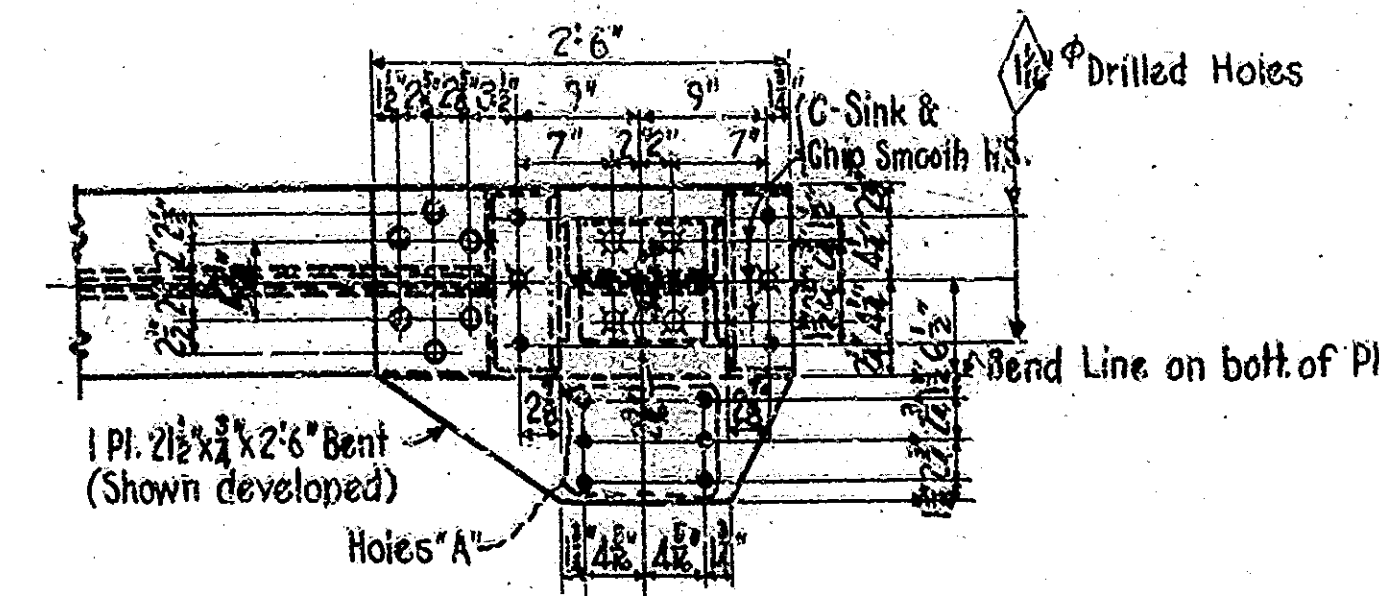
DESIGNED BY: [Name]
 DRAWN BY: [Name]
 CHECKED BY: [Name]
 APPROVED BY: [Name]

BRIDGES OVER 20' SPAN					
FED. ROAD DIST. NO.	STATE	R.A. DIST.	LOCAL DIST.	SHEET NO.	TOTAL SHEETS
7	IND.	74	193	22	68

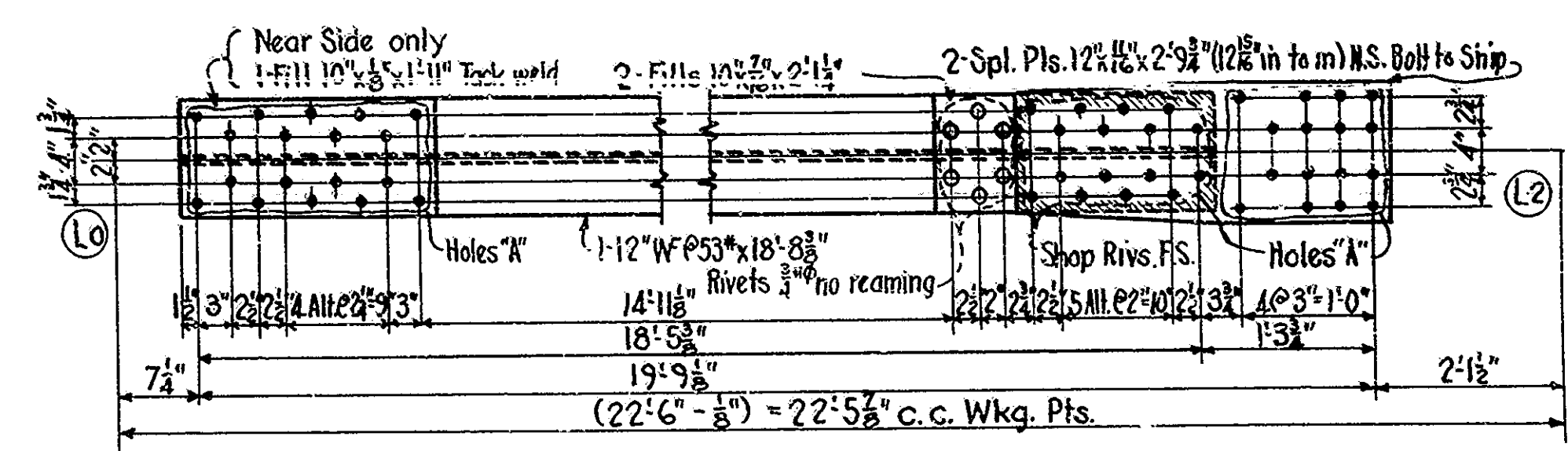
SECTION E
 2 Ls 3x3x3/8 x 9'10 1/2 (Bolt to ship)
 6.0.S.L: 1 1/2" x 3/2" c.c. holes.



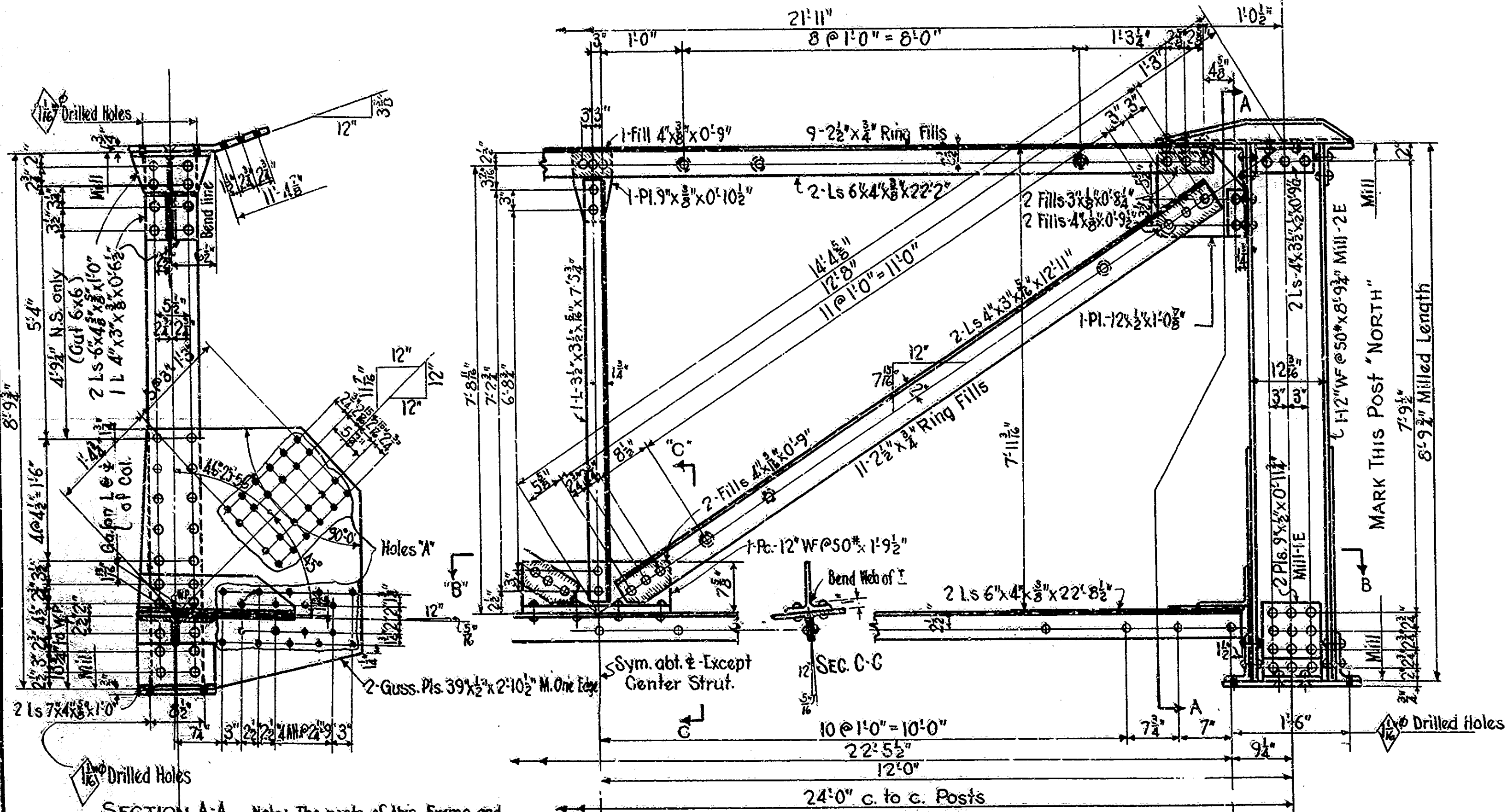
MAKE ONE SUB-DIAGONAL-MARK B-S-D-N } Alike
 MAKE ONE SUB-DIAGONAL-MARK B-S-D-S }



No. of Rivets	Mark on Rivets	No. Rivets per Span and
4	F3	2 M-B-F3 2 M-G-F3



MAKE ONE BOTTOM CHORD-MARK B-Lo L2-N } Alike
 MAKE ONE BOTTOM CHORD-MARK B-Lo L2-S }



SECTION A-A Note: The posts of this frame and the Sub Diagonal B-SD are to be assembled with their respective trusses, and the Holes 'A' reamed before the frame is assembled and riveted.

MAKE ONE FRAME-MARK B-F2

SECTION B-B

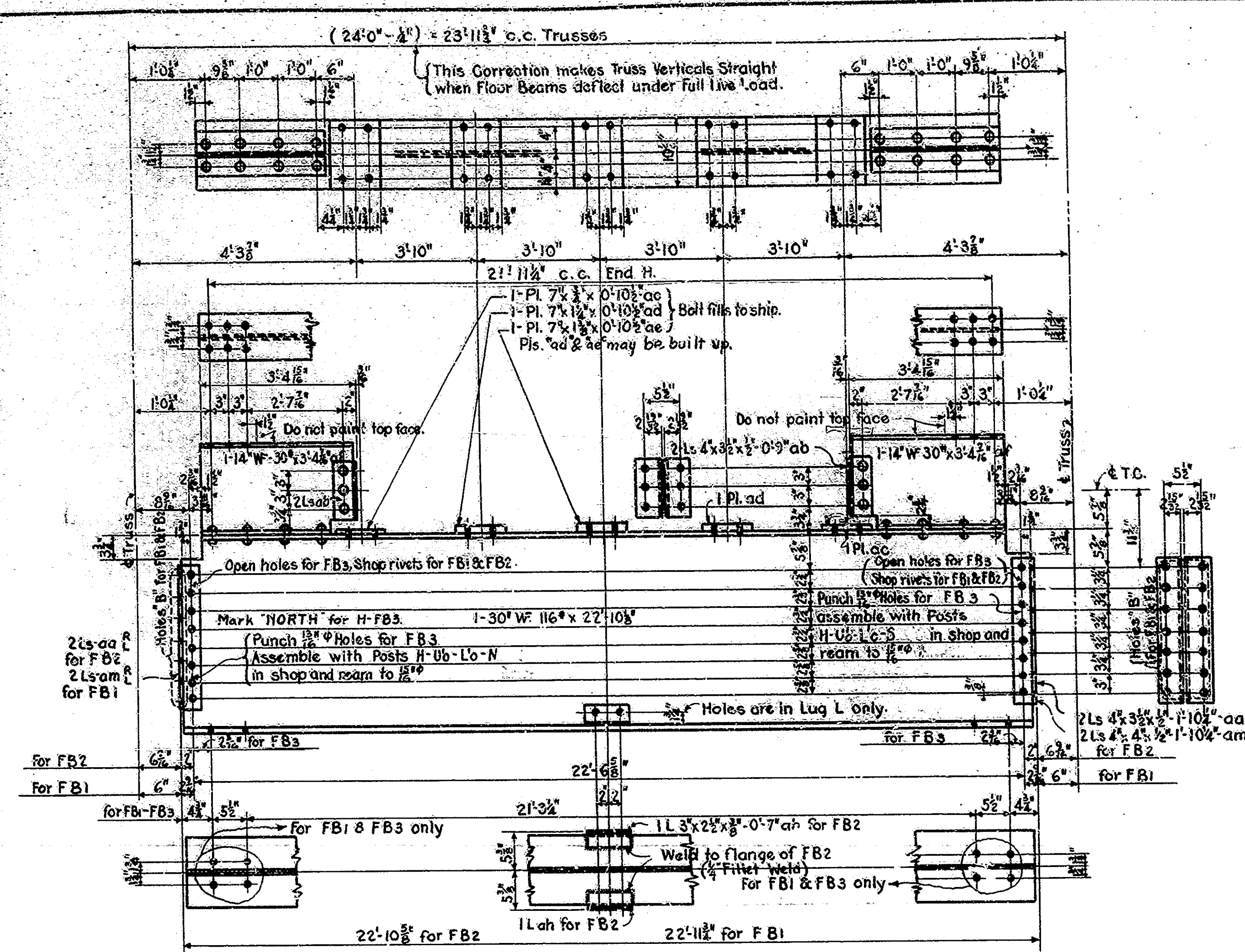
GENERAL NOTES:-
 All Rivets 3/8" unless noted. Holes Punched 1/8" unless noted.
 Holes 'A' Punch 1 1/2" and Ream 1 5/8" in assembled truss at shop.
 Edge Distance 1 1/2" unless noted.

SPANS B & G DETAILS AT PIERS NO 2, 3 & 7
 STATE HIGHWAY COMMISSION OF INDIANA

SCALE:- NONE
 RECOMMENDED FOR APPROVAL: [Signature]
 PROJECT:- F.A. 74 STATION:- 106+46.47
 SECTION:- STRUCTURE NO. 1784
 DRAWING:- S20 of 27 BRIDGE CONTRACT NO. 1454
 OCTOBER 20, 1936

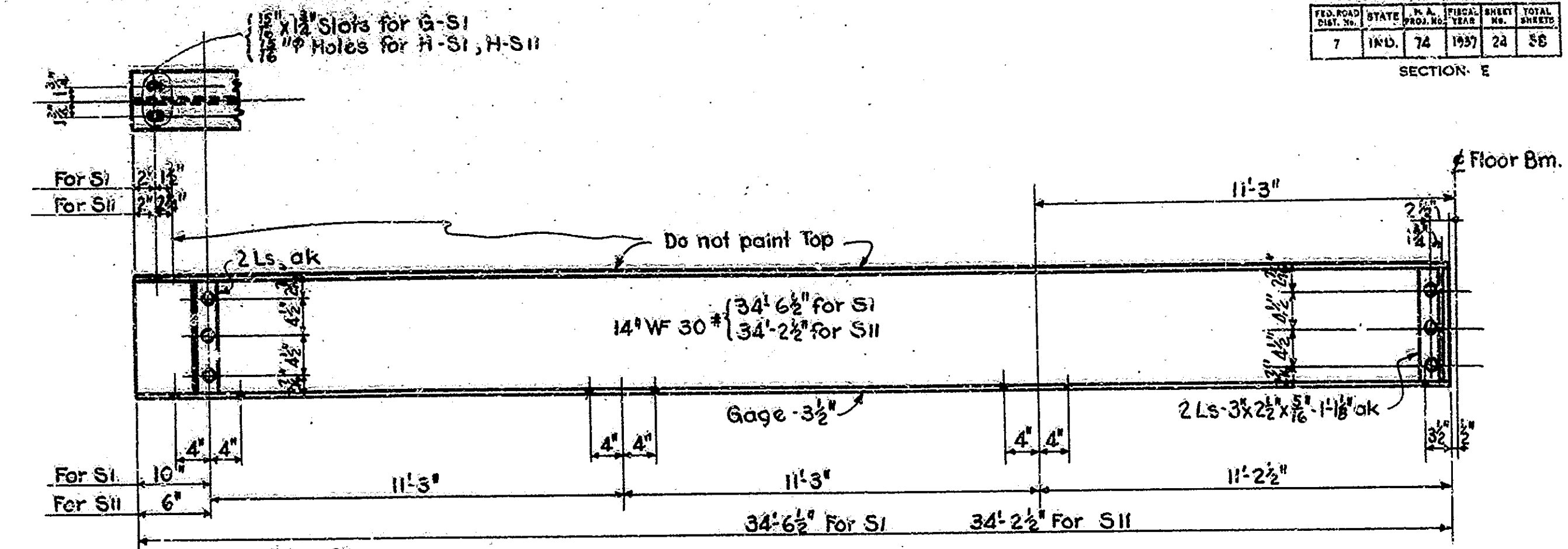
BRIDGE FILE:- S2-P1784

Chd. For Constr. Changes - 9-20-39

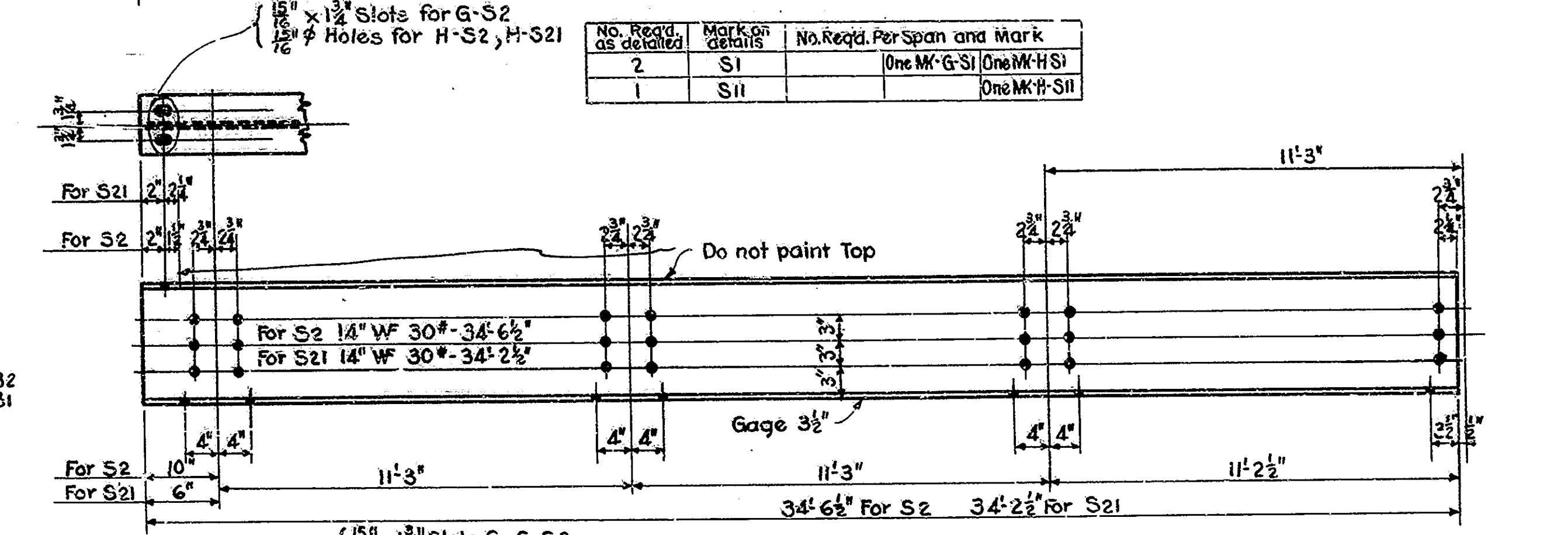


No. Req'd. as detailed	Mark on details	No. Req'd. Per Span and Mark
11	FB1	3MK-B-FB1 4MK-G-FB1 4MK-H-FB1
12	FB2	4MK-B-FB2 4MK-G-FB2 4MK-H-FB2
One	FB3	One MK-H-FB3

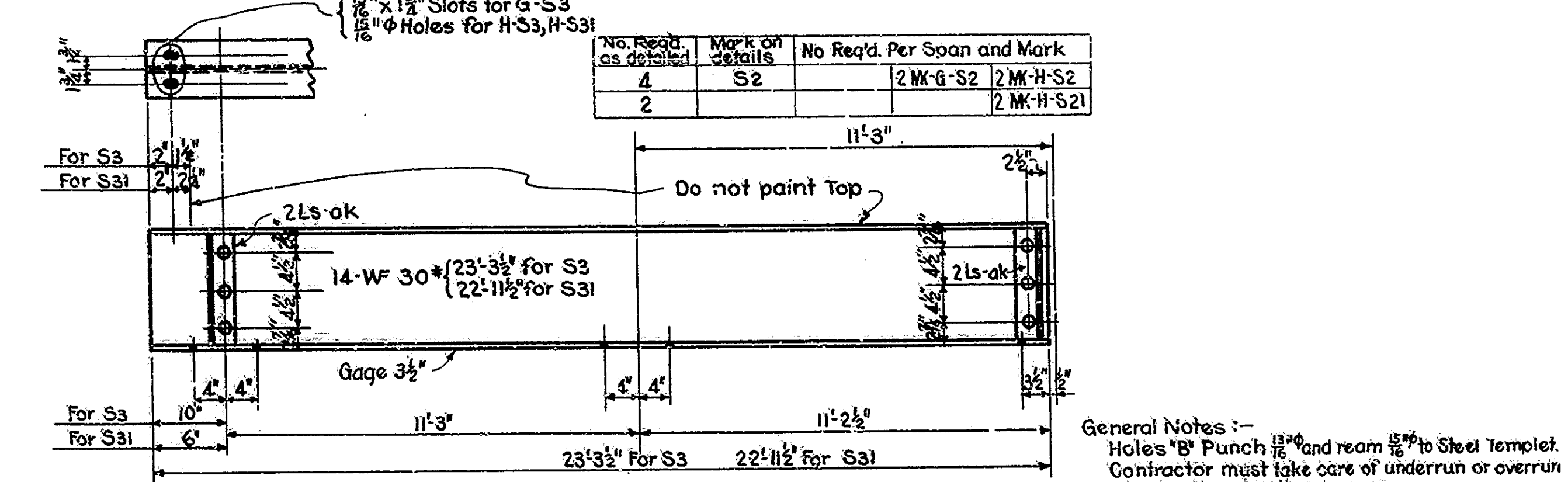
Note: End Conn. Ls are omitted on H-FB3



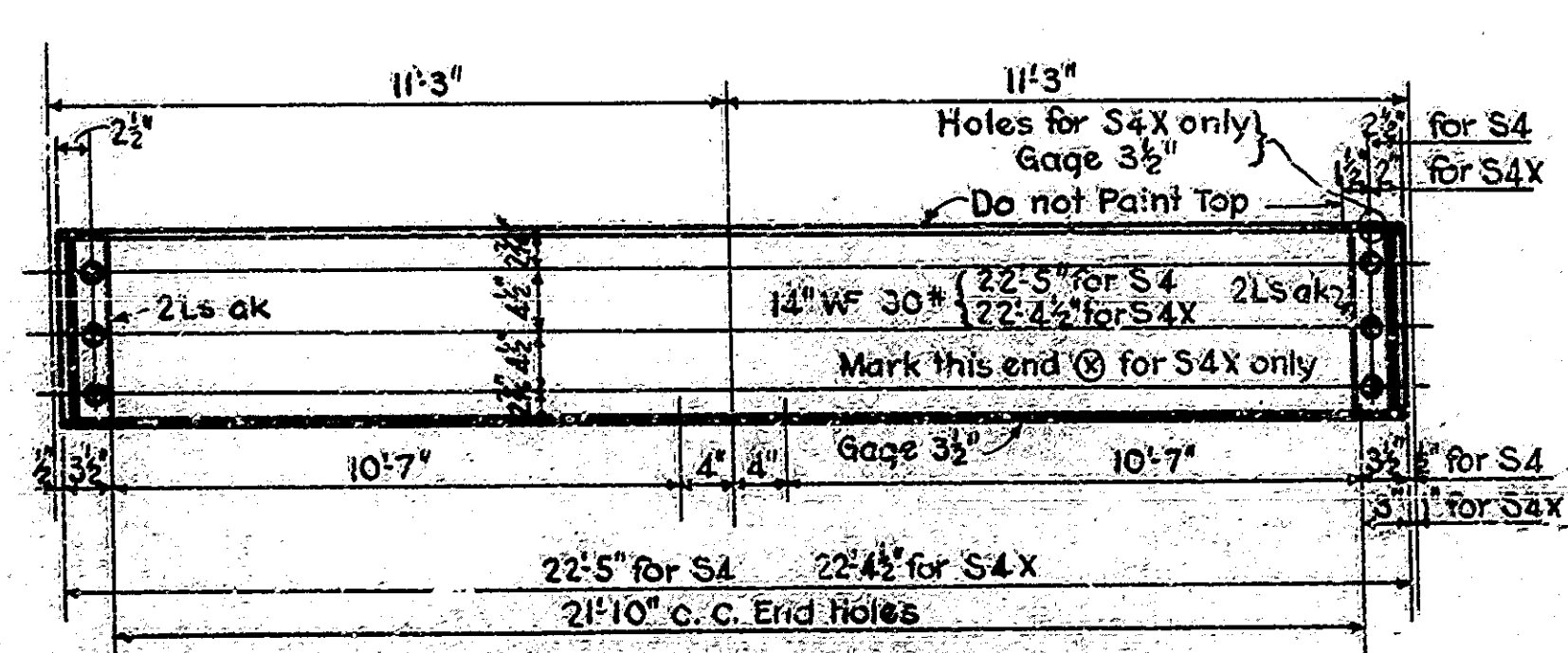
No. Req'd. as detailed	Mark on details	No. Req'd. Per Span and Mark
2	S1	One MK-G-S1 One MK-H-S1
1	S11	One MK-H-S11



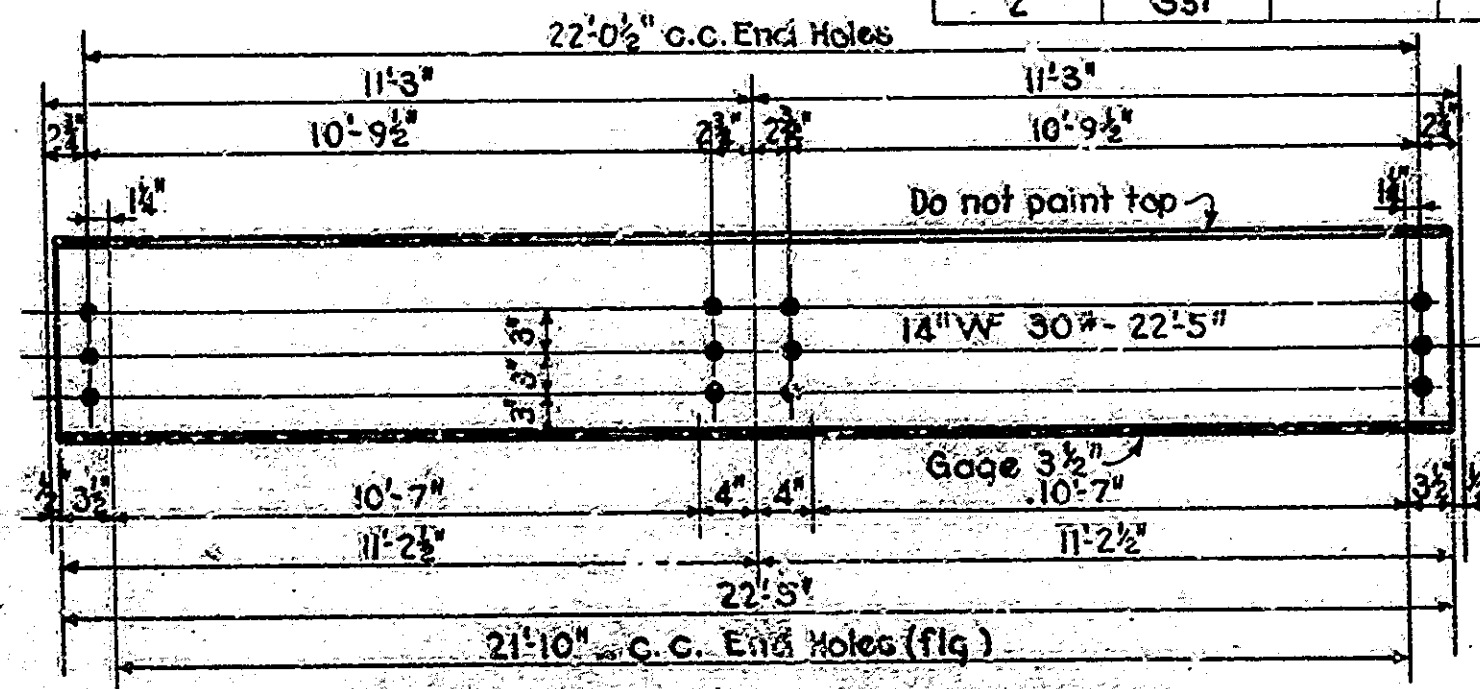
No. Req'd. as detailed	Mark on details	No. Req'd. Per Span and Mark
4	S2	2MK-G-S2 2MK-H-S2
2	S21	2MK-H-S21



No. Req'd. as detailed	Mark on details	No. Req'd. Per Span and Mark
4	S3	2MK-G-S3 2MK-H-S3
2	S31	2MK-H-S31



No. Req'd. as detailed	Mark on details	No. Req'd. Per Span and Mark
15	S4	5MK-B-S4 5MK-G-S4 5MK-H-S4
4	S4X	2MK-B-S4X 2MK-G-S4X



No. Req'd. as detailed	Mark on details	No. Req'd. Per Span and Mark
6	S5	2MK-B-S5 2MK-G-S5 2MK-H-S5

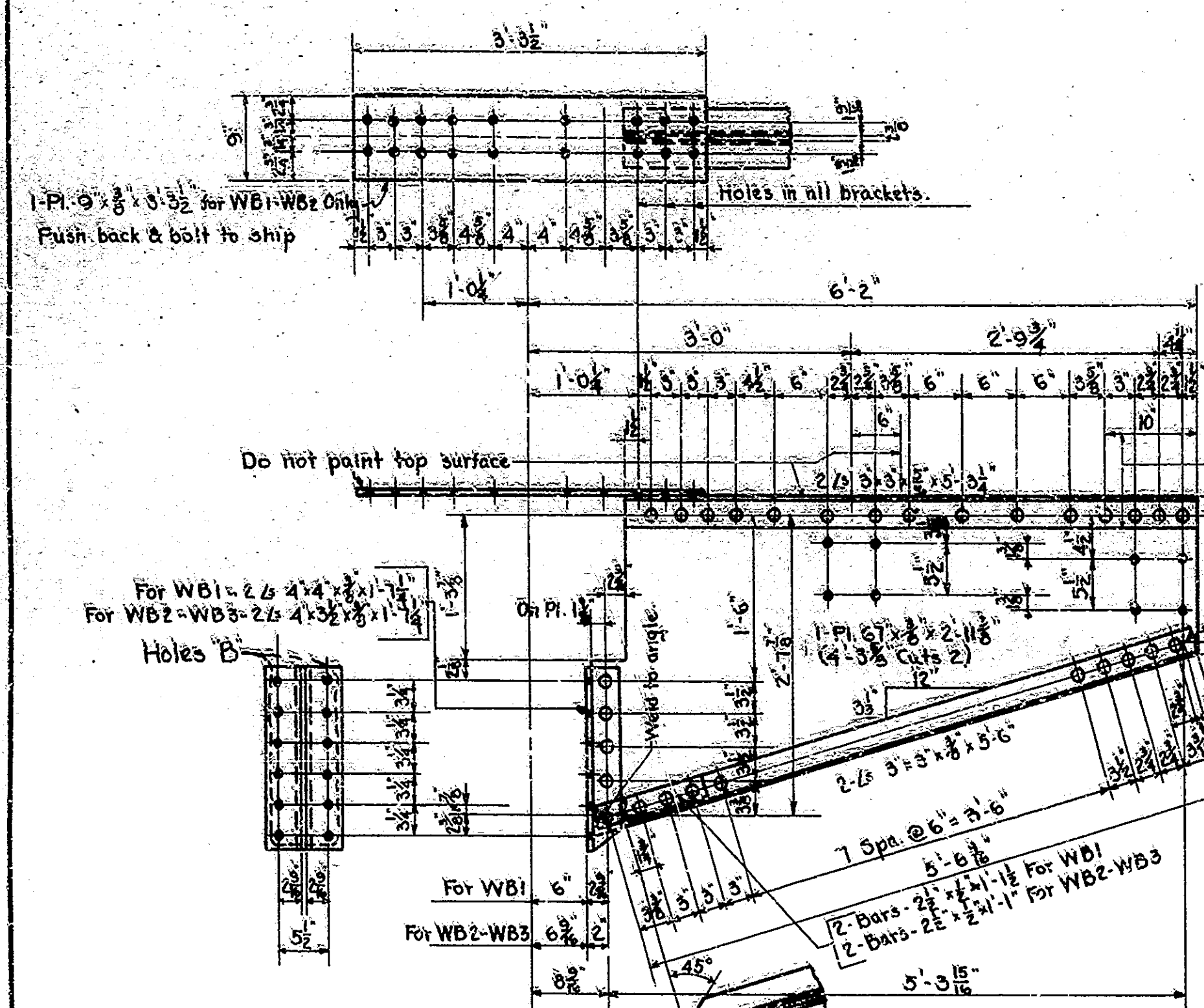
General Notes :-
 Holes "B" Punch 1/8" and ream 1/16" to Steel Template.
 Contractor must take care of underrun or overrun in depth of rolled beams.
 All rivets 3/8"
 All open holes 1/8" unless noted.

See Shop Plans
 SPANS, B.G. & H FLOOR BEAMS & STRINGERS
 STATE HIGHWAY COMMISSION OF INDIANA

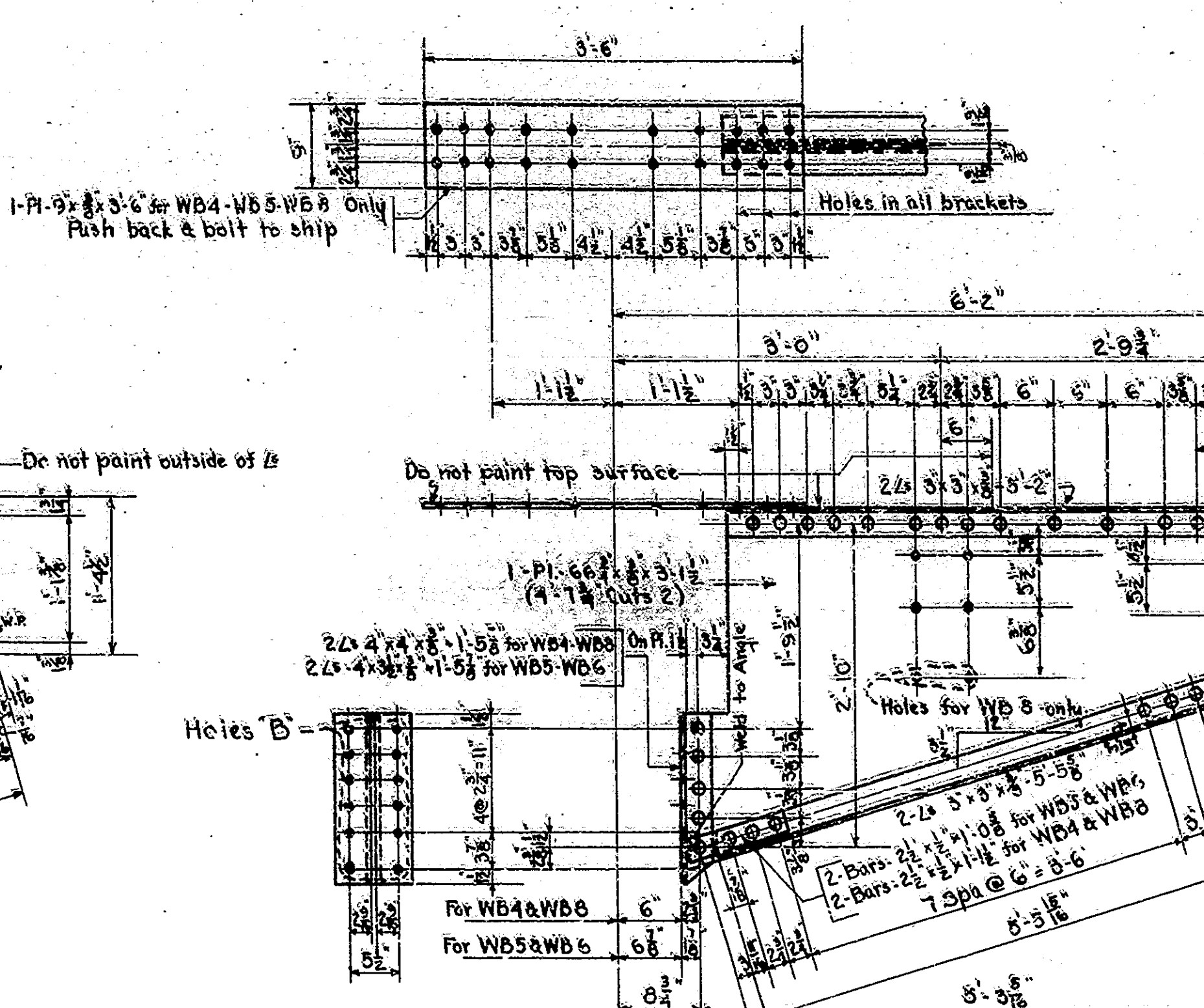
SCALE: NONE
 RECOMMENDED FOR APPROVAL:
 PROJECT: F.A. 74
 SECTION: E
 DRAWING: S-22 OF 47
 STATION: 106+56.47
 STRUCTURE NO. 1784
 OCTOBER 20, 1936
 BRIDGE CONTRACT NO. 1454

BRIDGES OVER 20' SPAN					
FED. PROJ. NO.	STATE	CONTRACT NO.	YEAR	PROJECT NO.	TOTAL SHEETS
7	IND.	74	1935	25	58

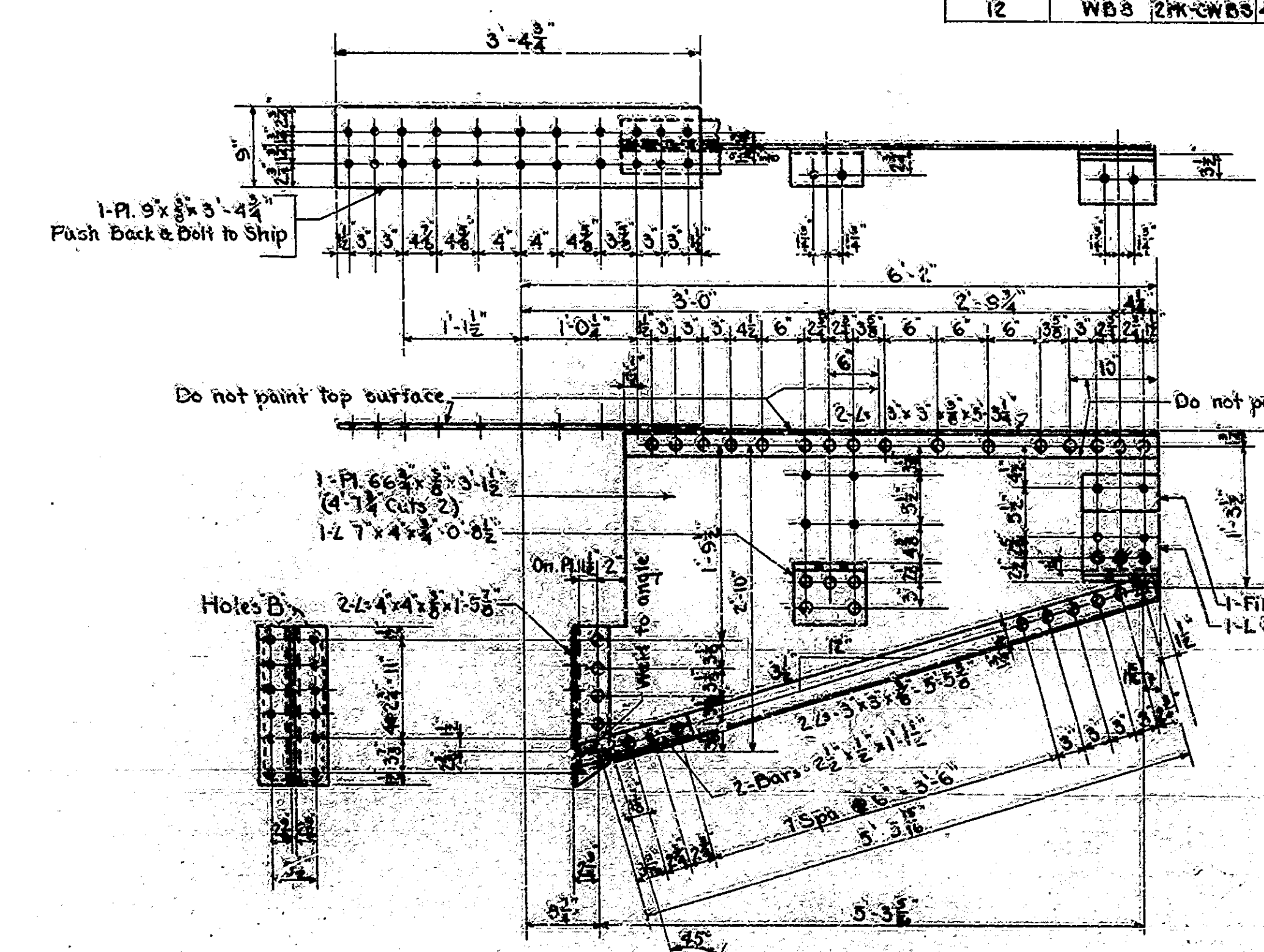
SECTION - E



No. Req'd. as detailed	Mark on Details	No. Req'd. Per Span & Erection Mark
24	WB1	6M-CWB1 6M-GWB1 6M-HWB1
12	WB2	4M-CWB2 4M-GWB2 4M-HWB2
12	WB3	4M-CWB3 4M-GWB3 4M-HWB3



No. Req'd. as detailed	Mark on Details	No. Req'd. Per Span & Erection Mark
32	WB4	8M-CWB4 8M-GWB4 8M-HWB4
16	WB5	4M-CWB5 4M-GWB5 4M-HWB5
24	WB6	6M-CWB6 6M-GWB6 6M-HWB6
12	WB8	2M-CWB8 4M-GWB8 4M-HWB8



No. Req'd. as detailed	Mark on Details	No. Req'd. Per Span & Erection Mark
2	WB7	As Shown 2M-CWB7 2M-GWB7 2M-HWB7
2	WB7	Opp. Hand 2M-CWB7 2M-GWB7 2M-HWB7

GENERAL NOTES:-
 Holes 'B' Punch $\frac{13}{16}$ " and Ream $\frac{15}{16}$ " to Steel Template
 All other open holes Punch $\frac{13}{16}$ ". No Reaming.
 All Rivets $\frac{7}{8}$ ".

See Shop Plans
 SIDEWALK BRACKETS
 STATE HIGHWAY COMMISSION OF INDIANA

SCALE:- NONE
 RECOMMENDED FOR APPROVAL:-
 OCTOBER 20, 1935

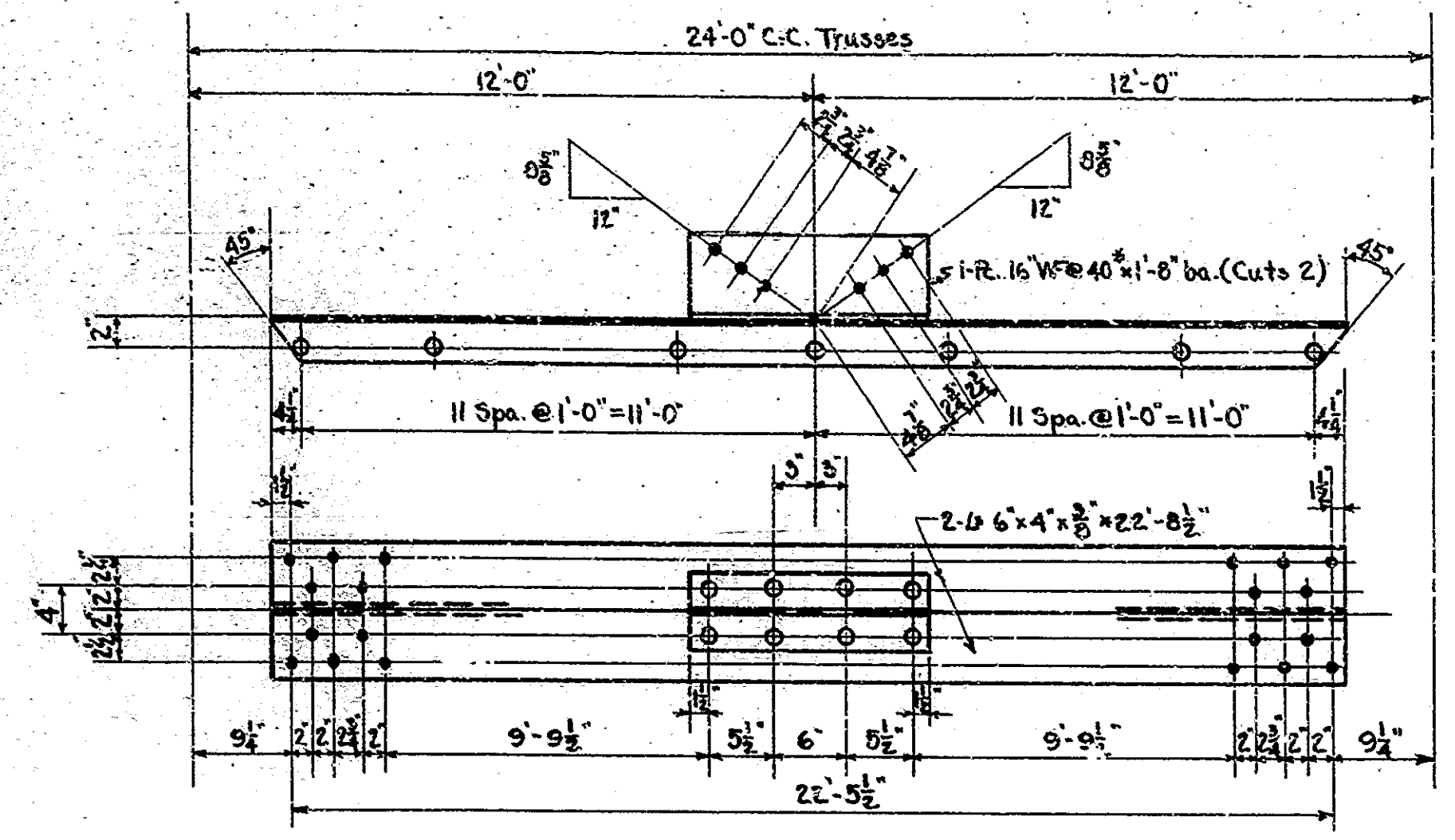
PROJECT- F.A. 74
 SECTION- E
 DRAWING- 33 OF 47
 STATION- 106+46.7
 STRUCTURE NO. 1784

BRIDGE CONTRACT NO. 1454

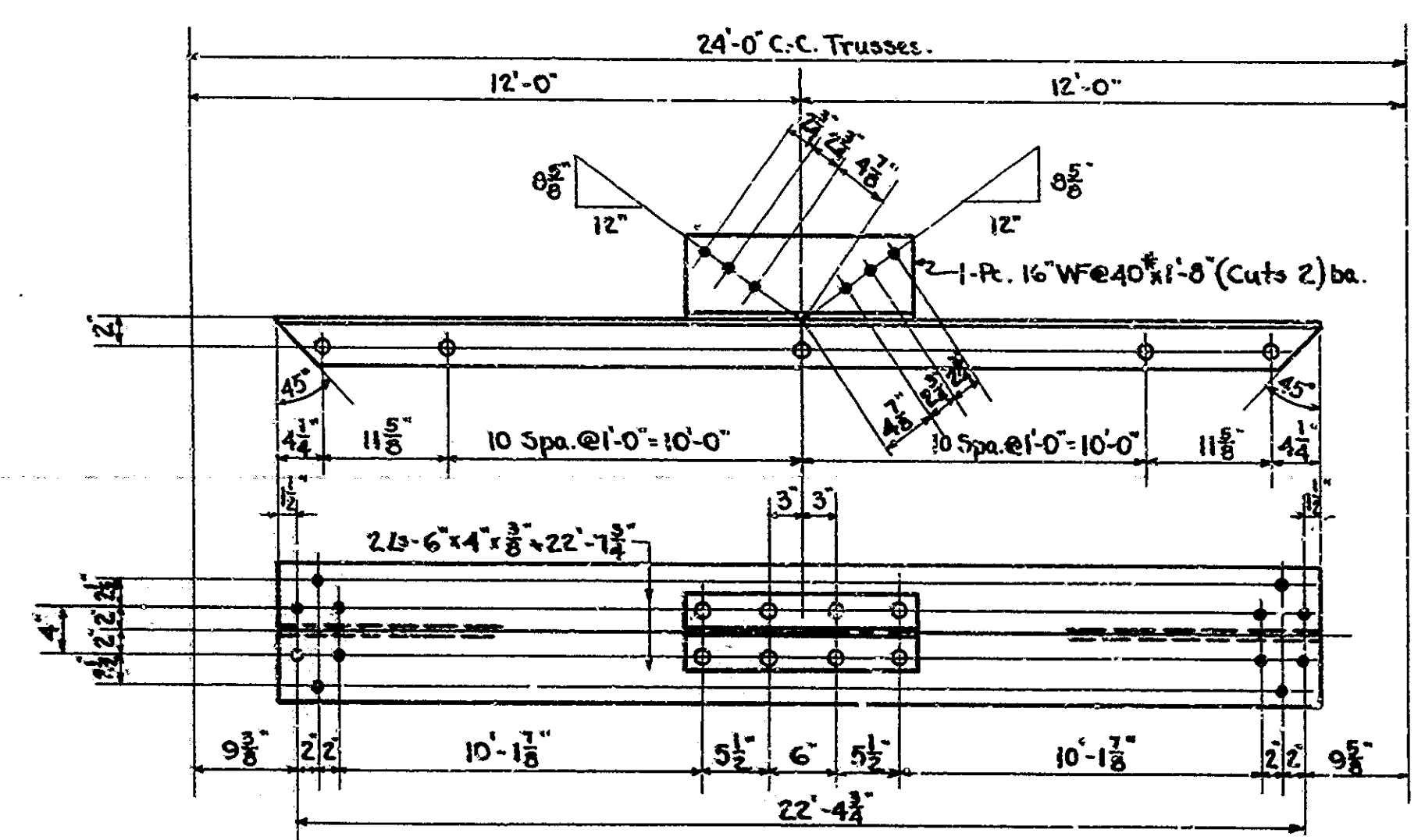
DESIGNED BY: R. B. ...
 CHECKED BY: R. B. ...

BRIDGE FILE: 327-1784

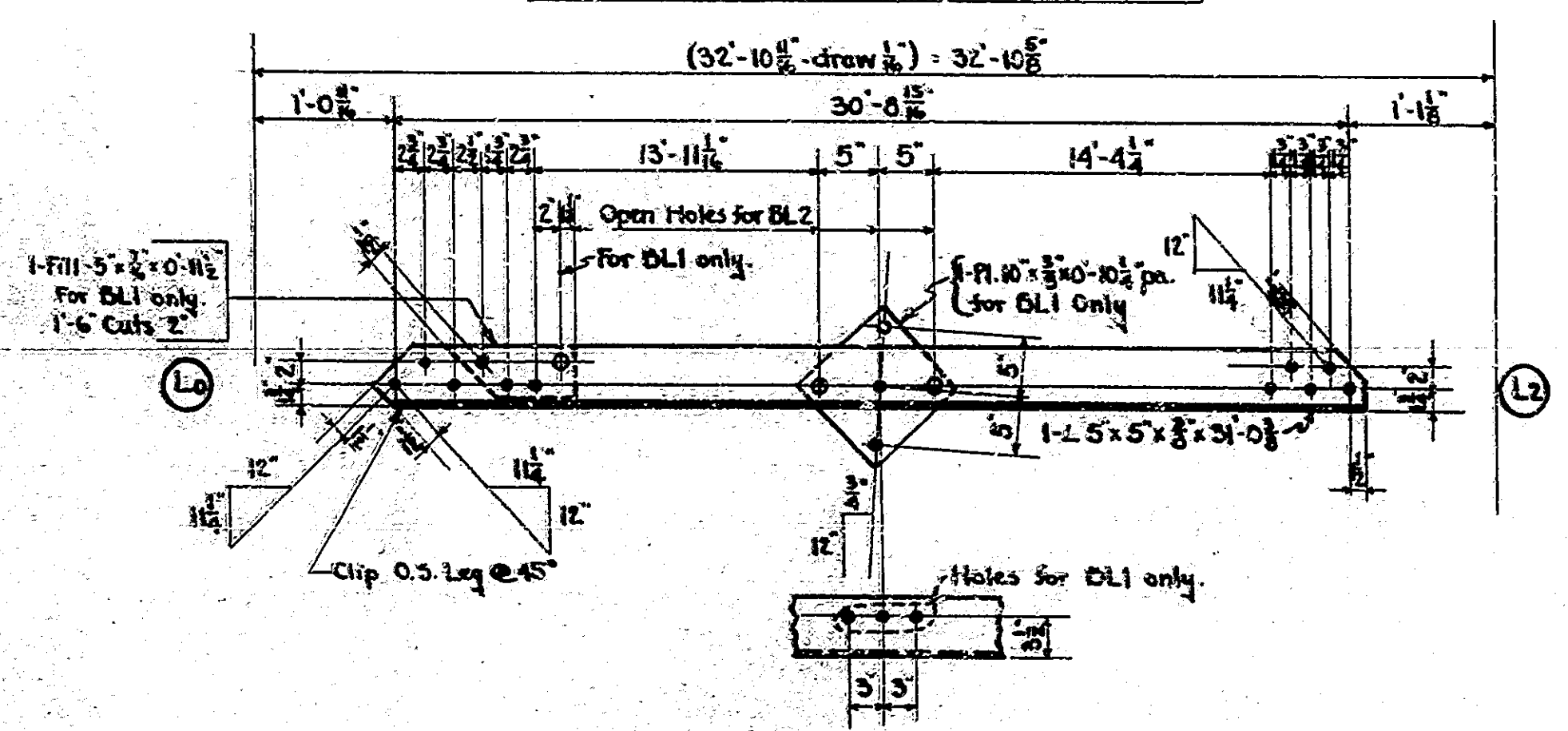
Rev. for Const. Changes - 9-20-35



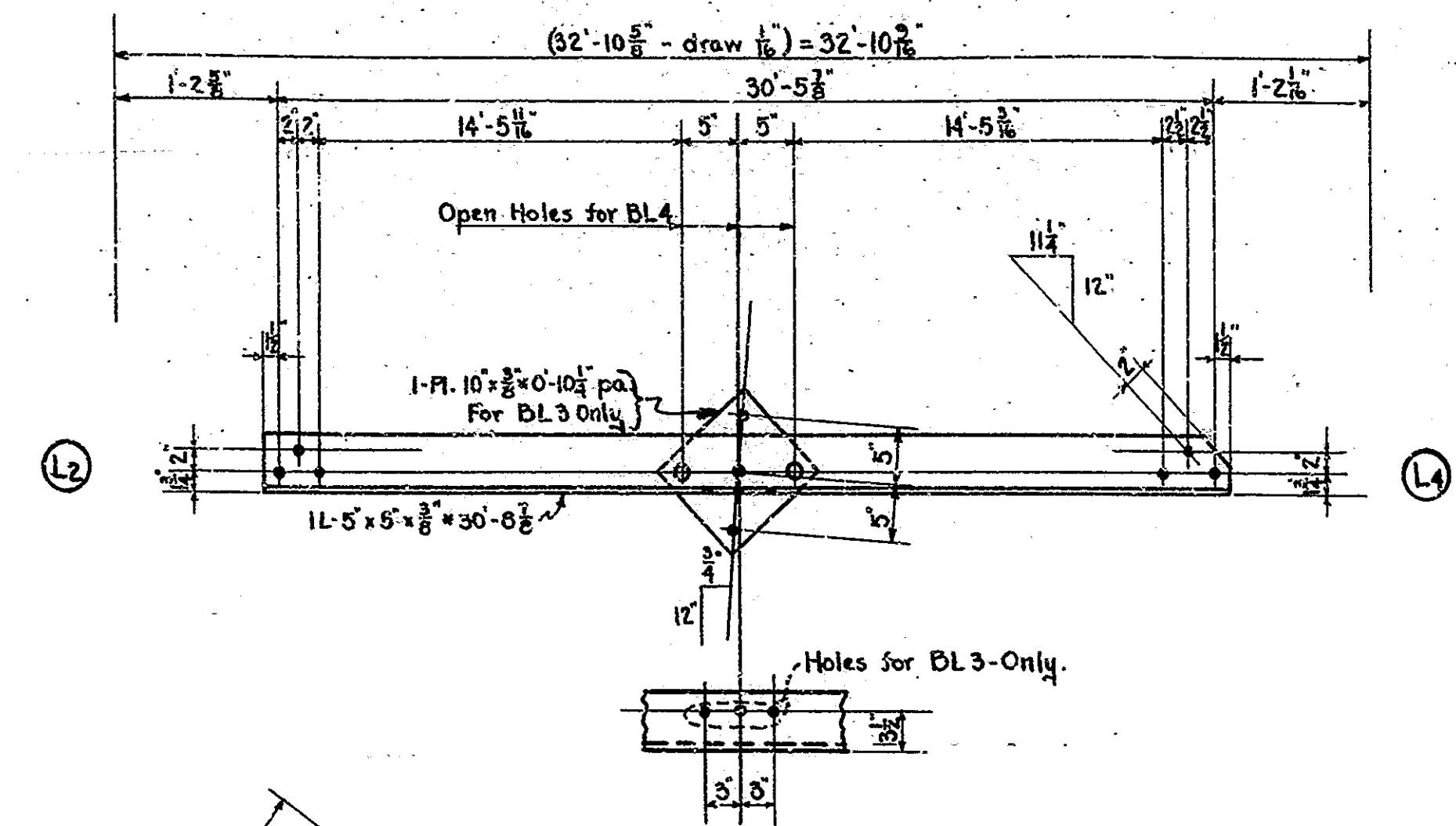
No. Req'd. as detailed	Mark on details	No. Req'd. Per Span & Erection Mark
3	BS1	ONE MK-GDS1 2PK-HBS1



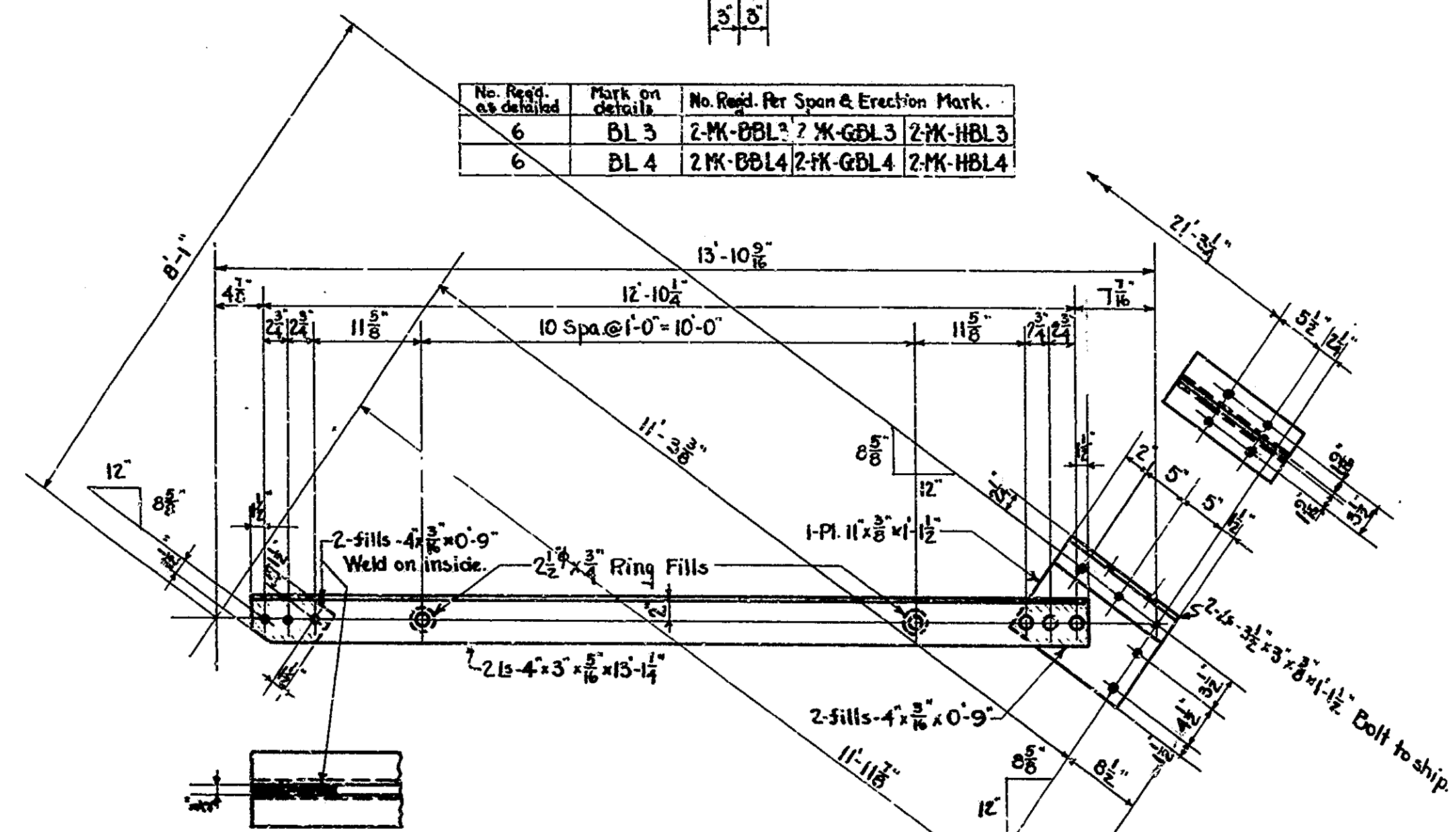
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9	BS2	3MK-GDS2 3MK-GDS2 3MK-HBS2



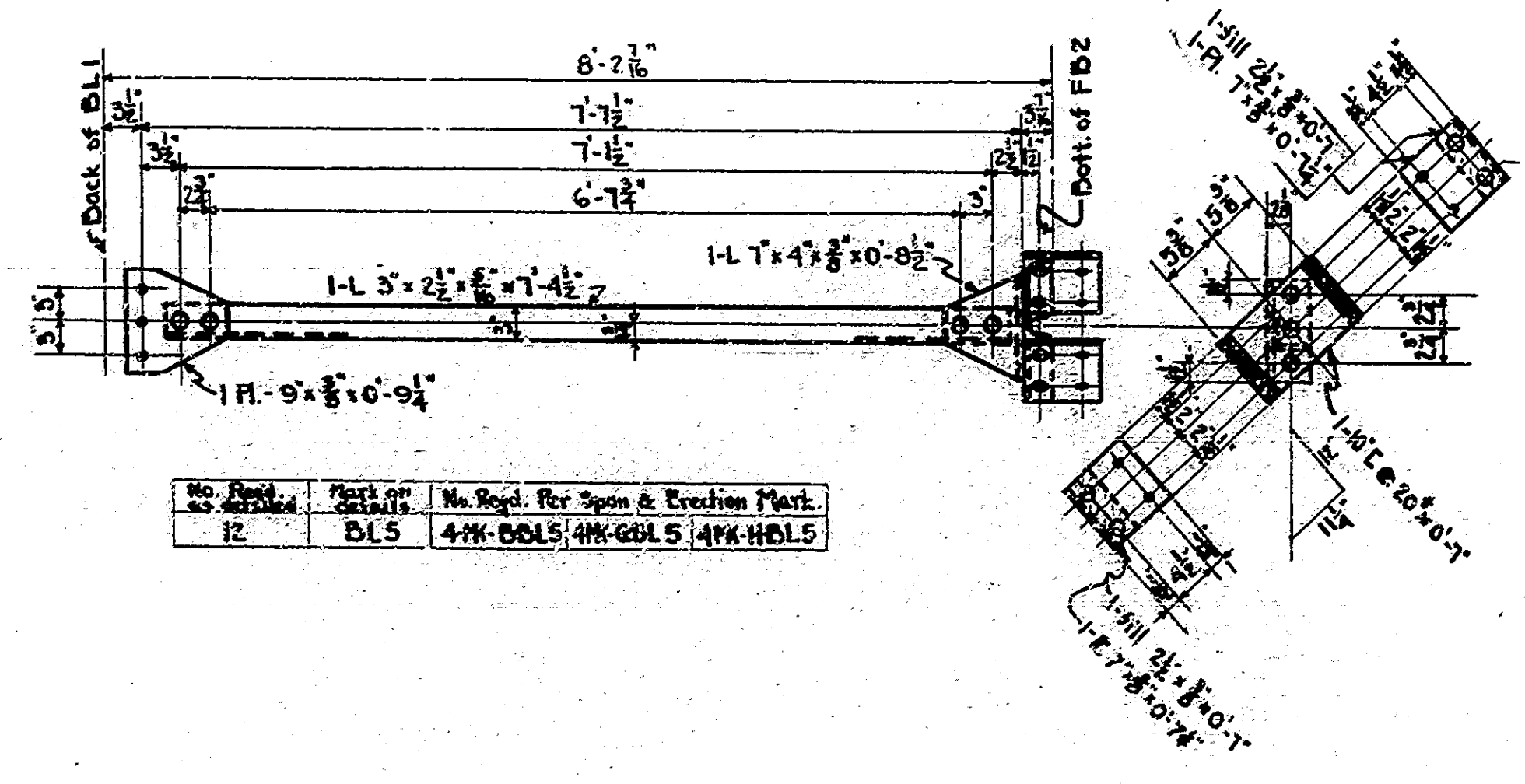
No. Req'd. as detailed	Mark on details	No. Req'd. Per Span & Erection Mark
6	DL1	2MK-DL1 2MK-DL1 2MK-HDL1
6	DL2	2MK-DL2 2MK-DL2 2MK-HDL2



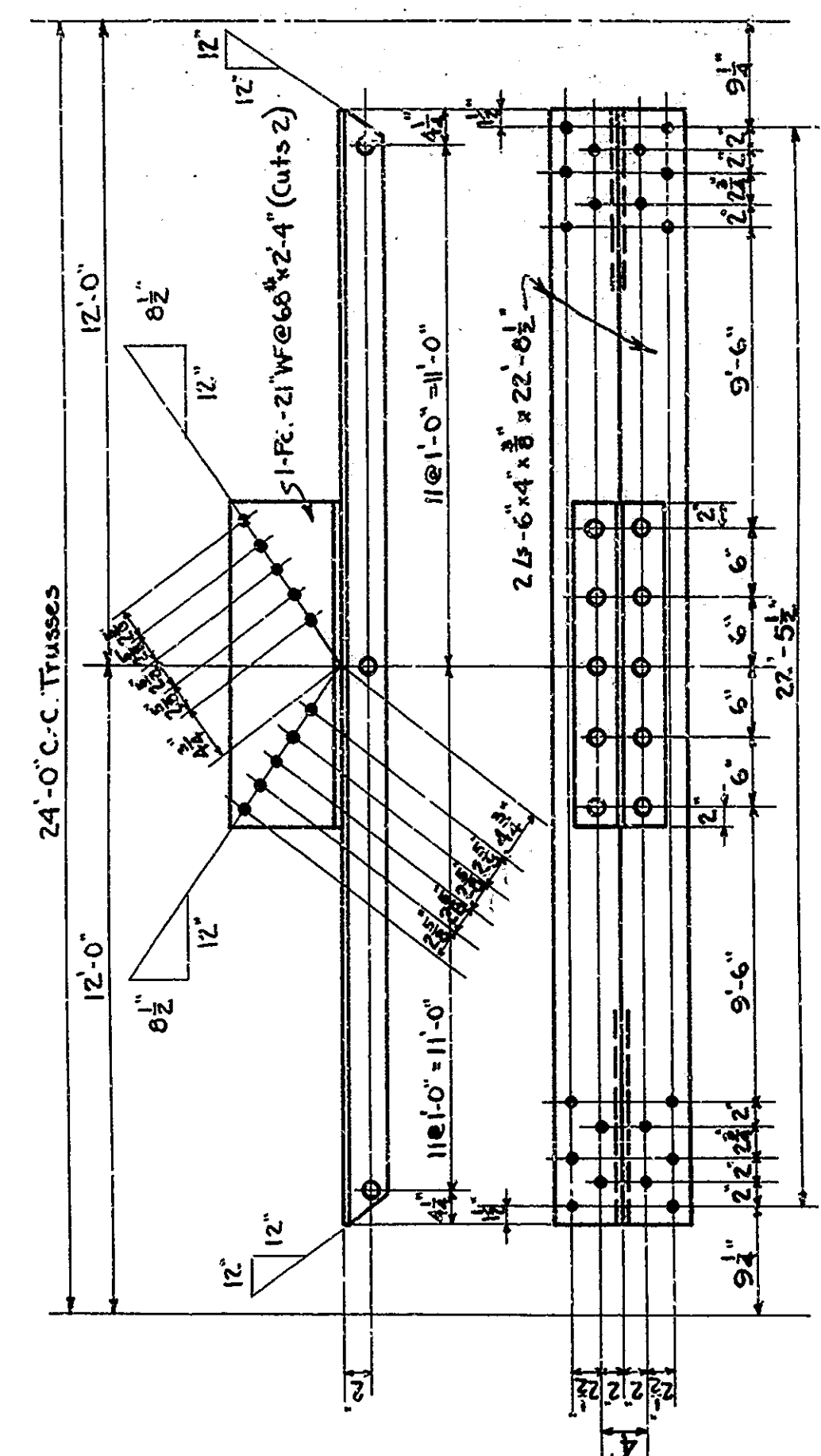
No. Req'd. as detailed	Mark on details	No. Req'd. Per Span & Erection Mark
6	DL3	2MK-DL3 2MK-GDL3 2MK-HDL3
6	DL4	2MK-DL4 2MK-GDL4 2MK-HDL4



No. Req'd. as detailed	Mark on details	No. Req'd. Per Span & Erection Mark
24	F1	6MK-BF1 8MK-GF1 10MK-HF1



No. Req'd. as detailed	Mark on details	No. Req'd. Per Span & Erection Mark
12	DL5	4MK-DL5 4MK-GDL5 4MK-HDL5



No. Req'd. as detailed	Mark on details	No. Req'd. Per Span & Erection Mark
2	BS3	ONE MK-B-ESSIONE MK-GDS3

GENERAL NOTES:-
 All Rivets 3/4"
 All Open Holes 1/2" Unless Noted.
 All edge distances 1 1/2" unless noted.

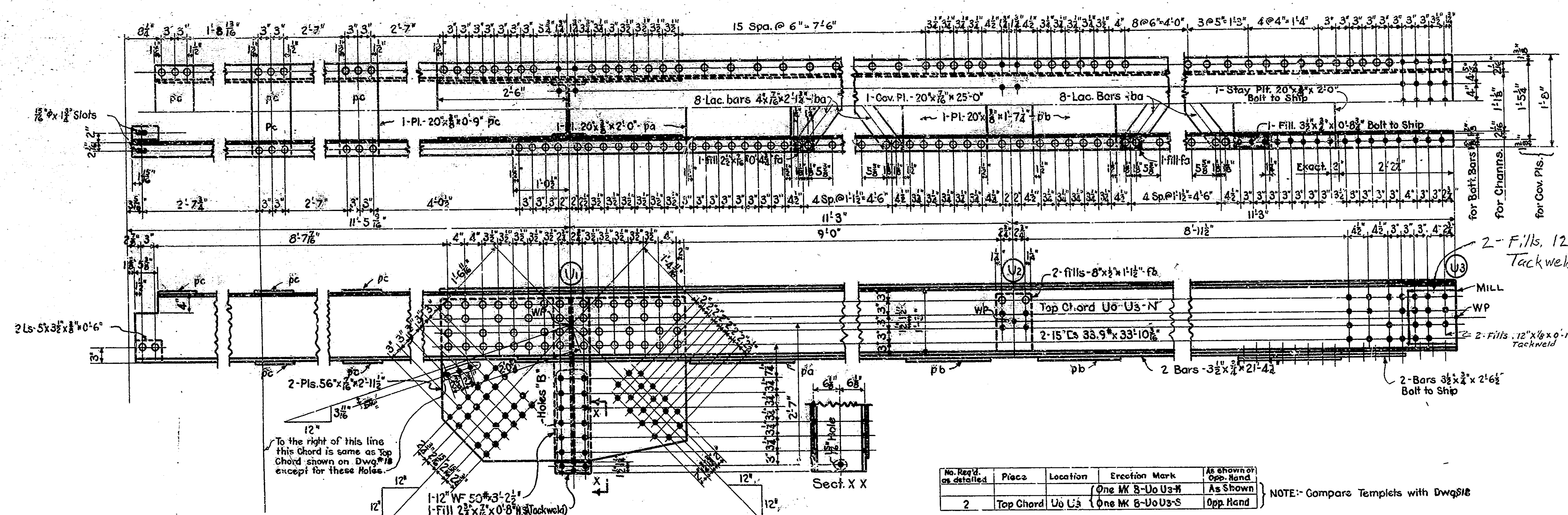
See Shop Plans

SPANS, B.G. & H. BOTTOM LATERALS AND STRUTS
 STATE HIGHWAY COMMISSION OF INDIANA

SCALE - NONE
 OCTOBER 20, 1936

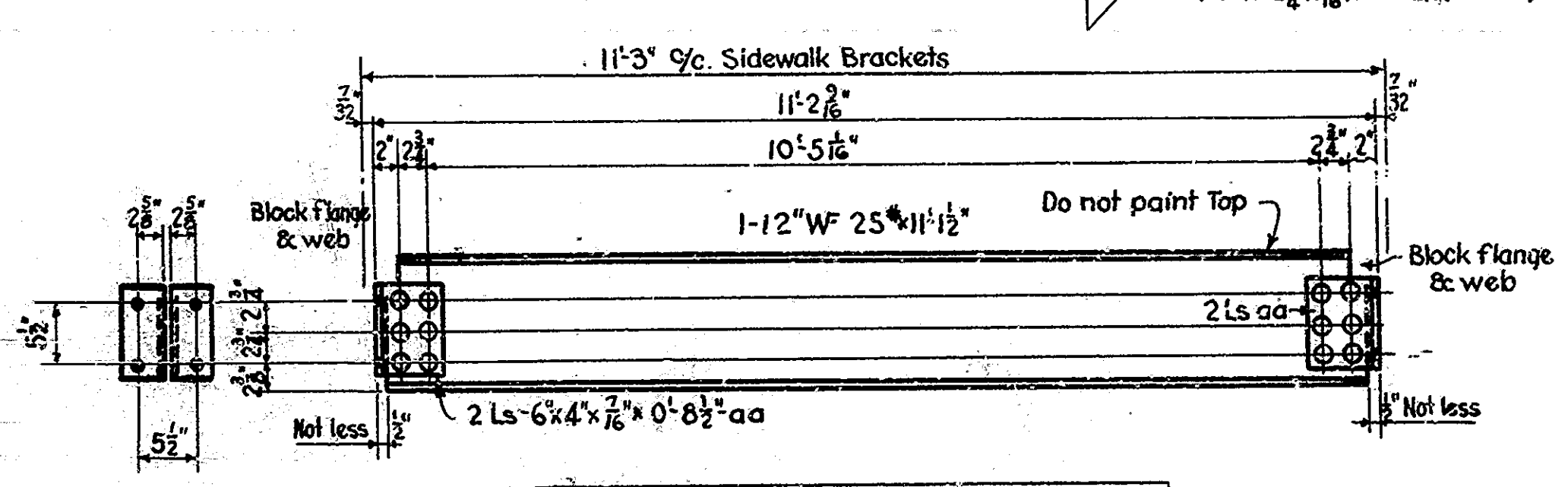
RECOMMENDED FOR APPROVAL: [Signature]
 PROJECT - F. A. 74 STATION - 106+46.47
 SECTION - E STRUCTURE NO. 1784

DRAWING - S24 OF 47
 BRIDGE CONTRACT NO. 1454

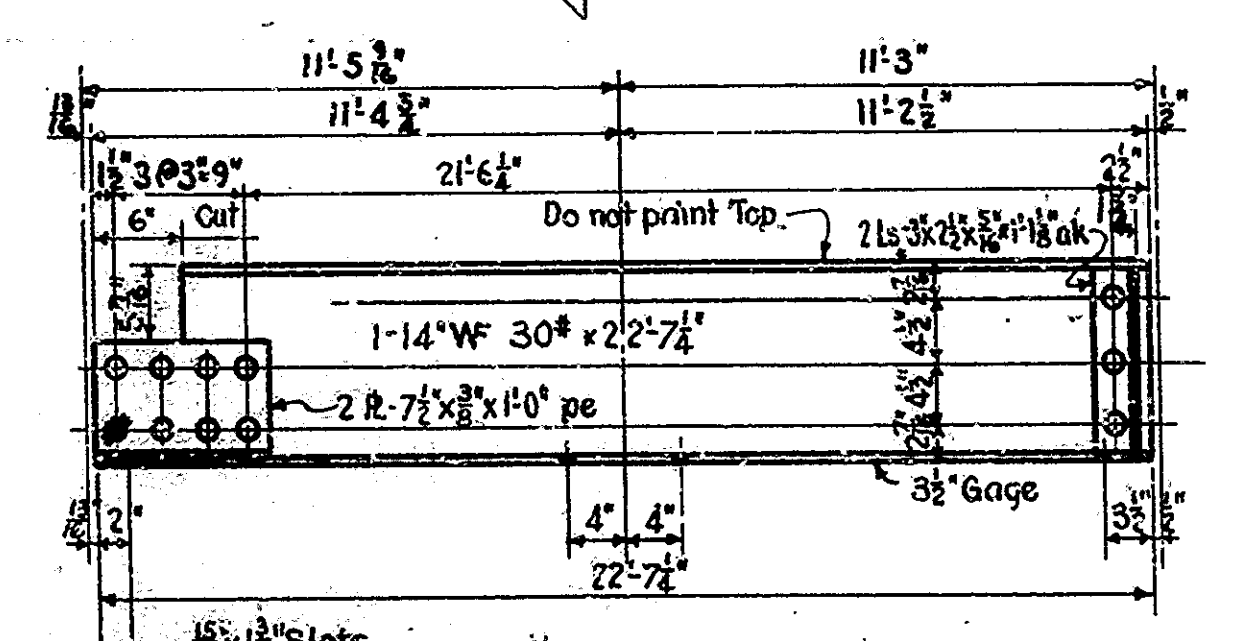


No. Req'd. as detailed	Place	Location	Erection Mark	As shown or Opp. Hand
2	Top Chord	Uo Us	One MK B-UoUs-N One MK B-UoUs-S	As Shown Opp. Hand

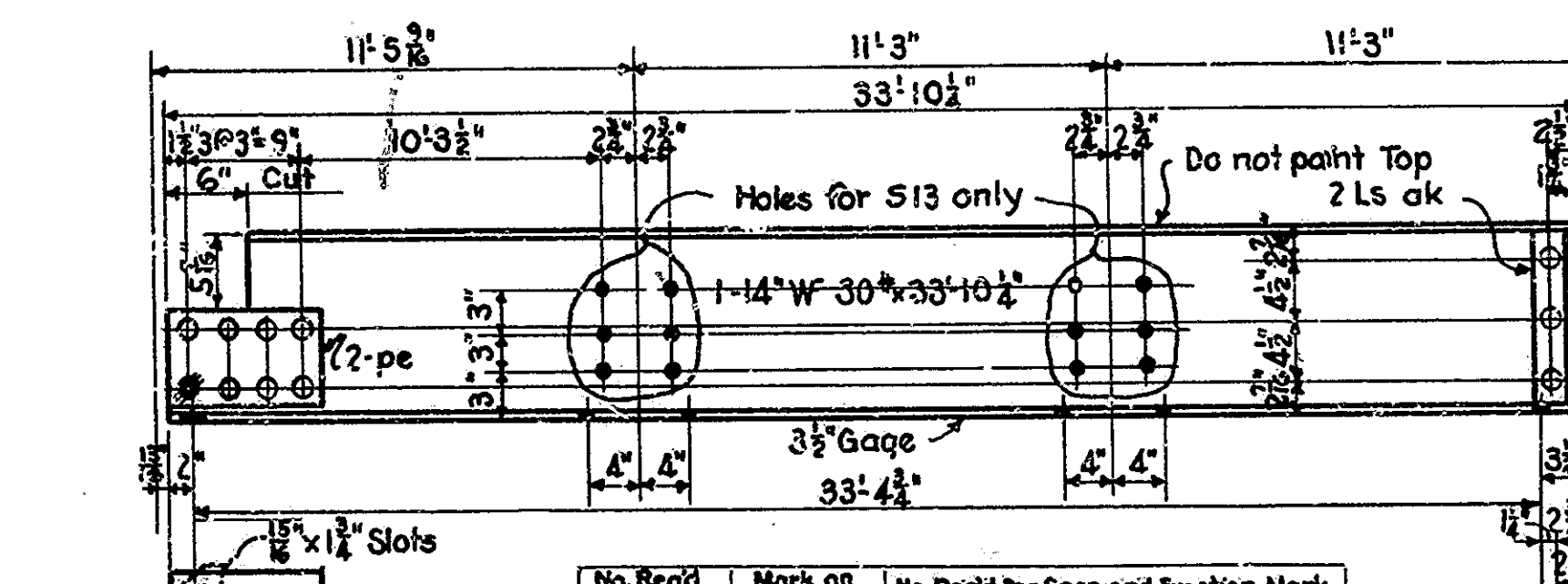
NOTE: Compare Templates with Dwg. 818



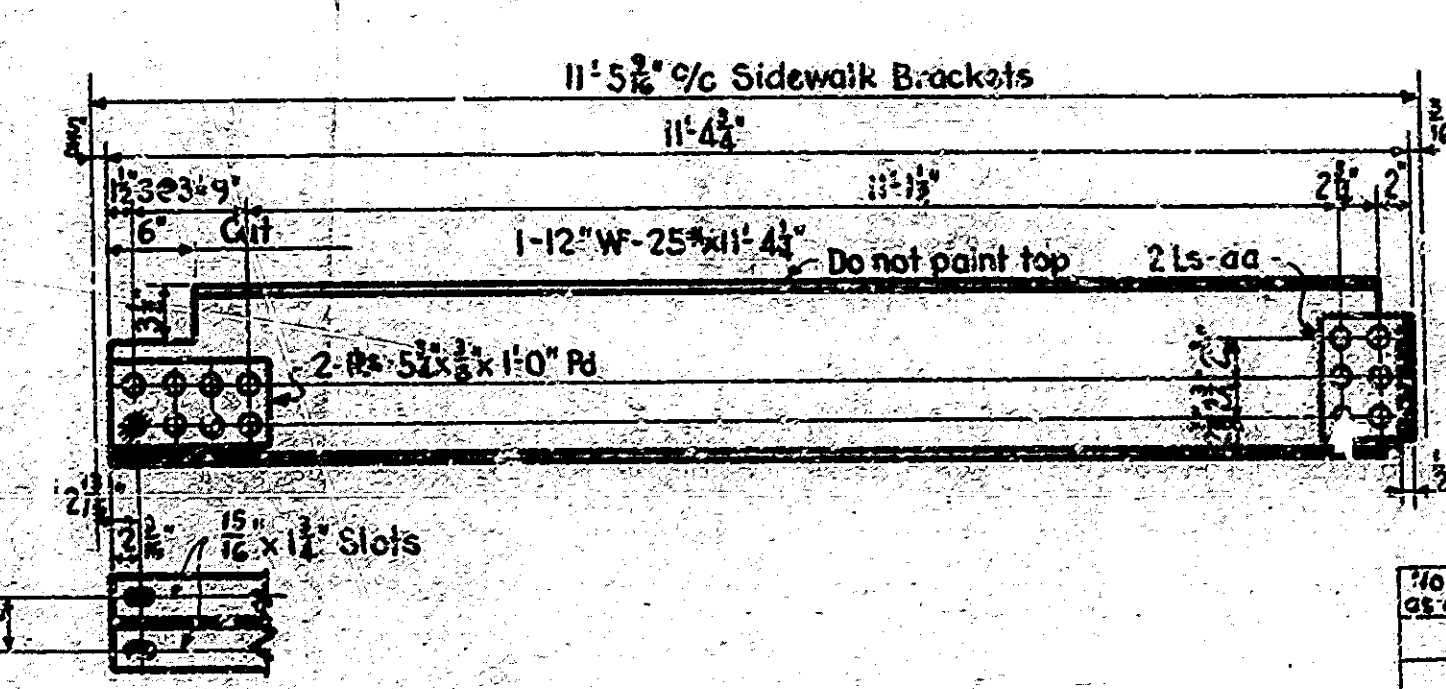
No. Req'd. as detailed	Mark on details	No. Req'd. Per Span and Erection Mark
92	S5	20 MK-B-S5 32 MK-G-S5 32 MK-H-S5



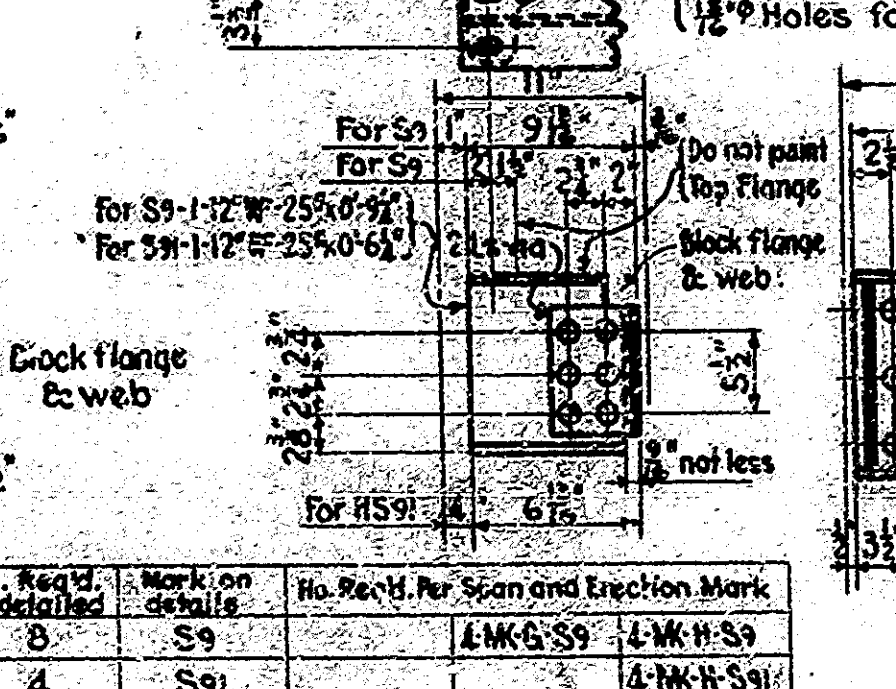
No. Req'd. as detailed	Mark on details	No. Req'd. Per Span and Erection Mark
2	S11	2 MK-B-S11



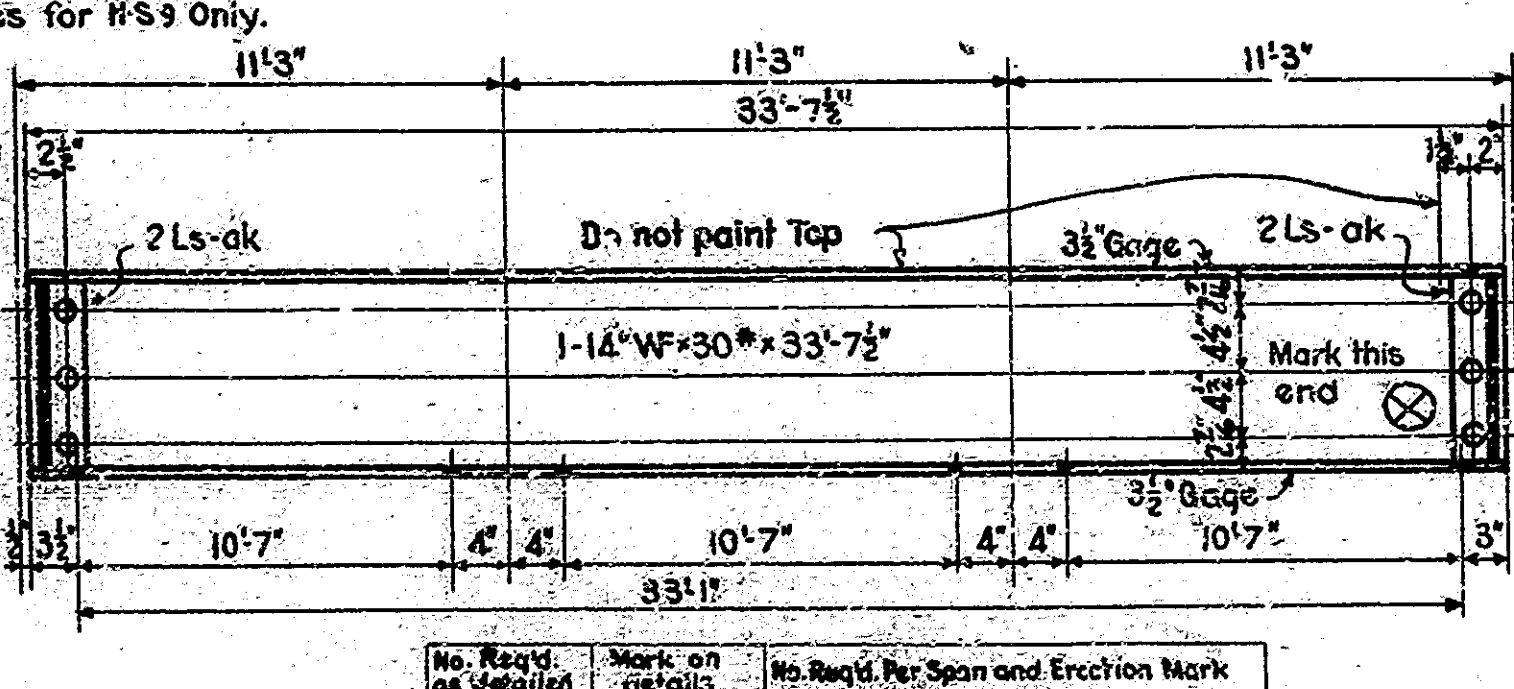
No. Req'd. as detailed	Mark on details	No. Req'd. Per Span and Erection Mark
2	S12	One MK-B-S12
2	S13	2 MK-B-S13



No. Req'd. as detailed	Mark on details	Erection Mark
4	S7	4 MK-B-S7



No. Req'd. as detailed	Mark on details	No. Req'd. Per Span and Erection Mark
4	S9	4 MK-B-S9 4 MK-H-S9



No. Req'd. as detailed	Mark on details	No. Req'd. Per Span and Erection Mark
2	S14	One MK-B-S14 One MK-G-S14

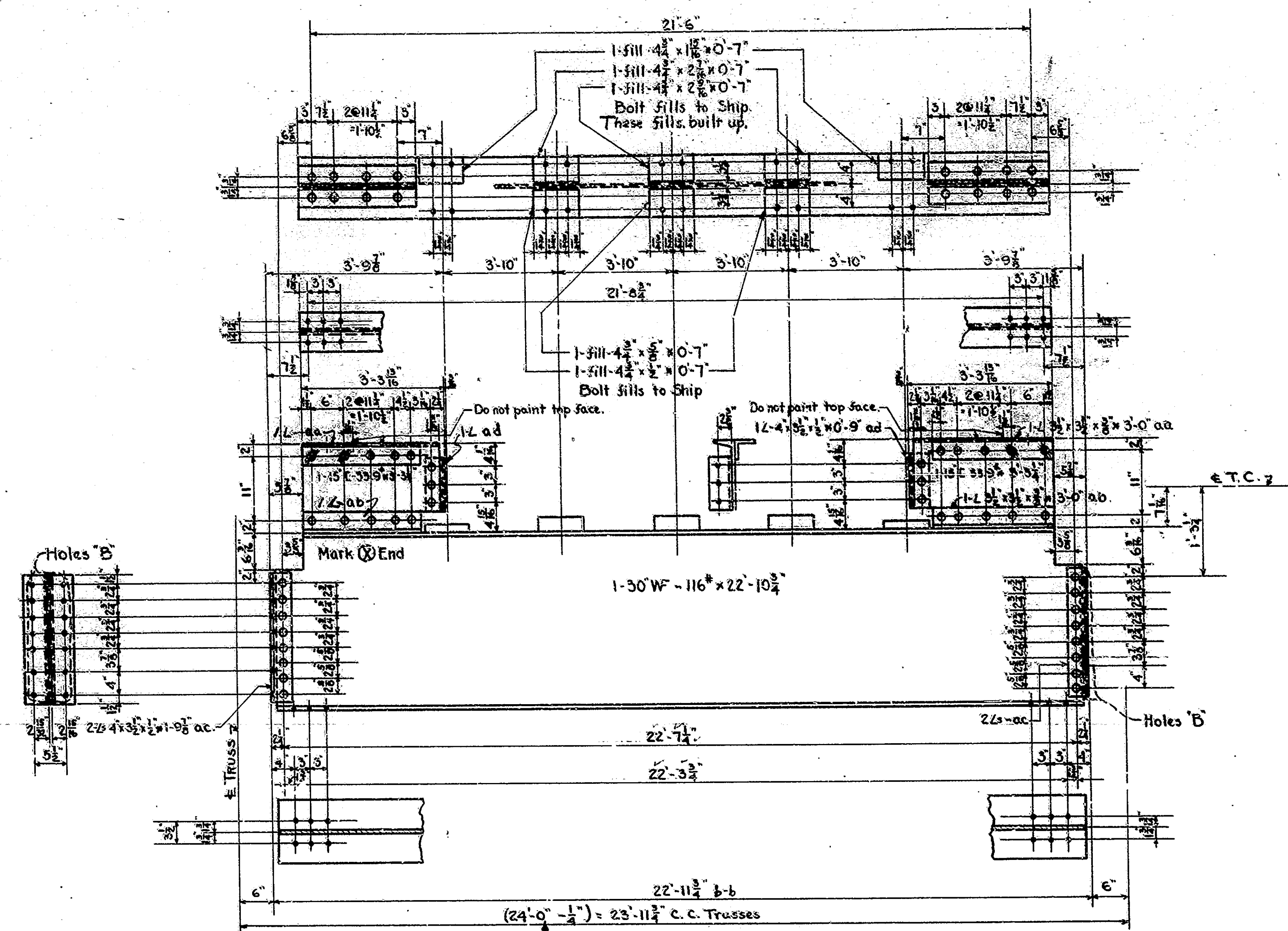
General Notes:-
 All rivets UoUs 3/4" unless noted.
 Holes B-Punch 5/8" and ream 3/4" to steel template.
 All other open holes in UoUs-Punch 1/2" and ream 5/8".
 In assembled truss at shop unless noted.
 Open holes in stringers punch 1/8" (no reaming).
 Stringer rivets 3/4".
 All edge distances 1 1/2" unless noted.
 Contractor must take care of overrun or underrun in depth of rolled beams.

SPANS B, G & H STRINGERS AND SPAN B' TOP CHORD UoUs
STATE HIGHWAY COMMISSION OF INDIANA

SCALE: NONE
 RECOMMENDED FOR APPROVAL: [Signature]
 PROJECT: FA 74 STATION: 106+46.47
 SECTION: E STRUCTURE NO. 1784
 DRAWING: 525 OF 47
 BRIDGE CONTRACT NO. 14 54

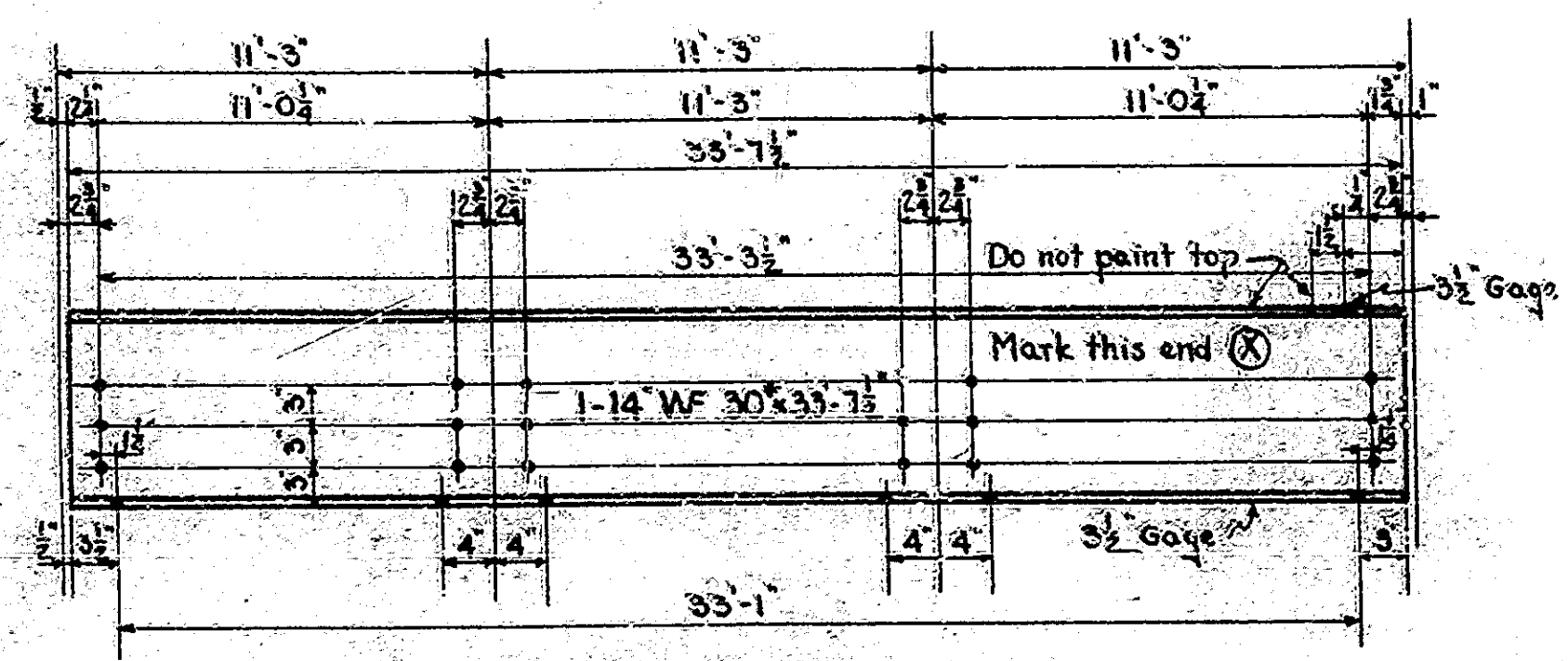
BRIDGES OVER 20 SPAN					
PER. NO.	STATE	C.A.	INVESTMENT	TOTAL	DATE
7	IND.	14	1912	28	56

SECTION - E



This correction makes Truss Verticals straight when Floor Beams deflect under full Live Load

No. Rep'd on details	Mark on details	No. Rep'd. Per Span & Erection Marks
2	FB ₄	One for FB ₄ , One for FB ₄



No. Rep'd on details	Mark on details	No. Rep'd. Per Span & Erection Marks
4	S15	2 for S15, 2 for G-S15

GENERAL NOTES:
 Holes 'B' Punch $\frac{13}{16}$ and Ream $\frac{5}{8}$ to Steel Template.
 Rivets $\frac{3}{8}$ Holes $\frac{15}{16}$ except as noted.
 Contractor must take care of overrun or underrun in depths of rolled beams.

— See Shop Plans —
 SPANS B & G FLOOR BEAM FB₄ AND STRINGER S15
 STATE HIGHWAY COMMISSION OF INDIANA

SCALE: NONE
 RECOMMENDED FOR APPROVAL: *[Signature]* OCTOBER 20, 1936

PROJECT: FA 7A STATION: 105+46.47
 SECTION: E STRUCTURE NO. 1784
 DRAWING: -526 OF 47

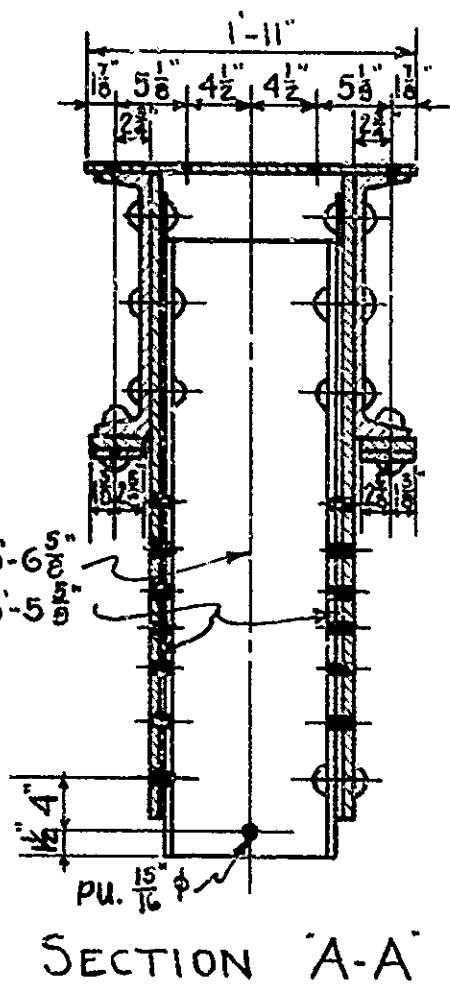
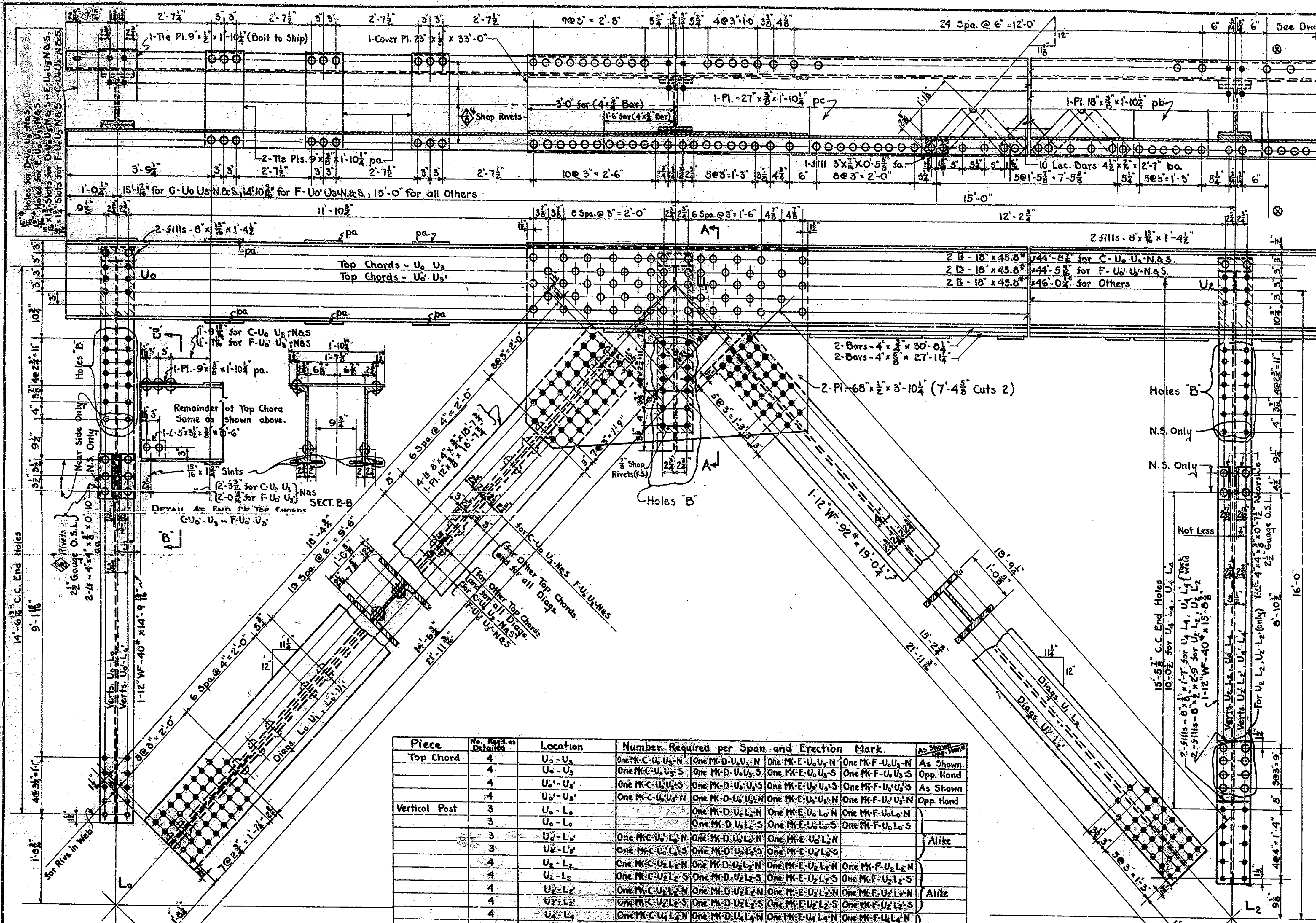
BRIDGE CONTRACT NO. 1454

BRIDGE FILE: 52-P-1784

Chd. For Constn. Changes—7-20-35
 C-1.

BRIDGES OVER 20' SPAN				
770. PLAN	STATE	DATE	PROJECT	TOTAL
DIST. NO.			NO. BY THIS	NO. SHEETS
7	IND.	34	1937	29
				58

SECTION - E



GENERAL NOTES
 All rivets $\frac{3}{4}$ " unless otherwise noted.
 Holes "D" - punch $\frac{1}{8}$ " and ream $\frac{1}{16}$ " to Steel Template.
 All other holes - punch $\frac{1}{8}$ " and ream $\frac{1}{16}$ " in assembled Truss at shop unless otherwise noted.
 Contractor must take care of overrun or under-run in depth of Rolled Beams used in Trusses. All edge distances $\frac{1}{2}$ " unless shown otherwise.
 WORK THIS DRAWING WITH DRAWING S26 & S27.
 Trusses on Spans "C-D-E-F" (150' Spans)
 Holes for $\frac{3}{8}$ " shop rivets may be punched $\frac{1}{8}$ " and reamed to $\frac{3}{8}$ " or punched full size.

Piece	No. of Details	Location	Number Required per Span and Erection Mark	As Shown
Top Chord	4	U ₀ -U ₃	One MC-C-U ₀ -U ₃ -N One MC-D-U ₀ -U ₃ -N One MC-E-U ₀ -U ₃ -N One MC-F-U ₀ -U ₃ -N	As Shown
	4	U ₀ '-U ₃ '	One MC-C-U ₀ '-U ₃ '-S One MC-D-U ₀ '-U ₃ '-S One MC-E-U ₀ '-U ₃ '-S One MC-F-U ₀ '-U ₃ '-S	Opp. Hand
	4	U ₀ -U ₃ '	One MC-C-U ₀ -U ₃ '-S One MC-D-U ₀ -U ₃ '-S One MC-E-U ₀ -U ₃ '-S One MC-F-U ₀ -U ₃ '-S	As Shown
	4	U ₀ '-U ₃	One MC-C-U ₀ '-U ₃ -N One MC-D-U ₀ '-U ₃ -N One MC-E-U ₀ '-U ₃ -N One MC-F-U ₀ '-U ₃ -N	Opp. Hand
Vertical Post	3	U ₀ -L ₀	One MC-C-U ₀ -L ₀ -N One MC-D-U ₀ -L ₀ -N One MC-E-U ₀ -L ₀ -N One MC-F-U ₀ -L ₀ -N	
	3	U ₀ '-L ₀	One MC-C-U ₀ '-L ₀ -S One MC-D-U ₀ '-L ₀ -S One MC-E-U ₀ '-L ₀ -S One MC-F-U ₀ '-L ₀ -S	
	3	U ₀ -L ₀ '	One MC-C-U ₀ -L ₀ '-S One MC-D-U ₀ -L ₀ '-S One MC-E-U ₀ -L ₀ '-S One MC-F-U ₀ -L ₀ '-S	Alike
	4	U ₁ -L ₁	One MC-C-U ₁ -L ₁ -N One MC-D-U ₁ -L ₁ -N One MC-E-U ₁ -L ₁ -N One MC-F-U ₁ -L ₁ -N	
	4	U ₁ '-L ₁	One MC-C-U ₁ '-L ₁ -S One MC-D-U ₁ '-L ₁ -S One MC-E-U ₁ '-L ₁ -S One MC-F-U ₁ '-L ₁ -S	
	4	U ₁ -L ₁ '	One MC-C-U ₁ -L ₁ '-S One MC-D-U ₁ -L ₁ '-S One MC-E-U ₁ -L ₁ '-S One MC-F-U ₁ -L ₁ '-S	Alike
	4	U ₁ '-L ₁	One MC-C-U ₁ '-L ₁ -N One MC-D-U ₁ '-L ₁ -N One MC-E-U ₁ '-L ₁ -N One MC-F-U ₁ '-L ₁ -N	
	4	U ₂ -L ₂	One MC-C-U ₂ -L ₂ -N One MC-D-U ₂ -L ₂ -N One MC-E-U ₂ -L ₂ -N One MC-F-U ₂ -L ₂ -N	
	4	U ₂ '-L ₂	One MC-C-U ₂ '-L ₂ -S One MC-D-U ₂ '-L ₂ -S One MC-E-U ₂ '-L ₂ -S One MC-F-U ₂ '-L ₂ -S	
	4	U ₂ -L ₂ '	One MC-C-U ₂ -L ₂ '-S One MC-D-U ₂ -L ₂ '-S One MC-E-U ₂ -L ₂ '-S One MC-F-U ₂ -L ₂ '-S	Alike
	4	U ₂ '-L ₂	One MC-C-U ₂ '-L ₂ -N One MC-D-U ₂ '-L ₂ -N One MC-E-U ₂ '-L ₂ -N One MC-F-U ₂ '-L ₂ -N	
	4	U ₃ -L ₃	One MC-C-U ₃ -L ₃ -N One MC-D-U ₃ -L ₃ -N One MC-E-U ₃ -L ₃ -N One MC-F-U ₃ -L ₃ -N	
Diagonals	3	L ₃ -U ₃	One MC-C-L ₃ -U ₃ -N One MC-D-L ₃ -U ₃ -N One MC-E-L ₃ -U ₃ -N One MC-F-L ₃ -U ₃ -N	Alike
	3	L ₃ '-U ₃	One MC-C-L ₃ '-U ₃ -S One MC-D-L ₃ '-U ₃ -S One MC-E-L ₃ '-U ₃ -S One MC-F-L ₃ '-U ₃ -S	
	4	U ₃ -L ₃	One MC-C-U ₃ -L ₃ -N One MC-D-U ₃ -L ₃ -N One MC-E-U ₃ -L ₃ -N One MC-F-U ₃ -L ₃ -N	
	4	U ₃ '-L ₃	One MC-C-U ₃ '-L ₃ -S One MC-D-U ₃ '-L ₃ -S One MC-E-U ₃ '-L ₃ -S One MC-F-U ₃ '-L ₃ -S	Alike

SPANS C, D, E, & F (150') TOP CHORD AND WEB DETAILS U₀ TO U₃
 STATE HIGHWAY COMMISSION OF INDIANA

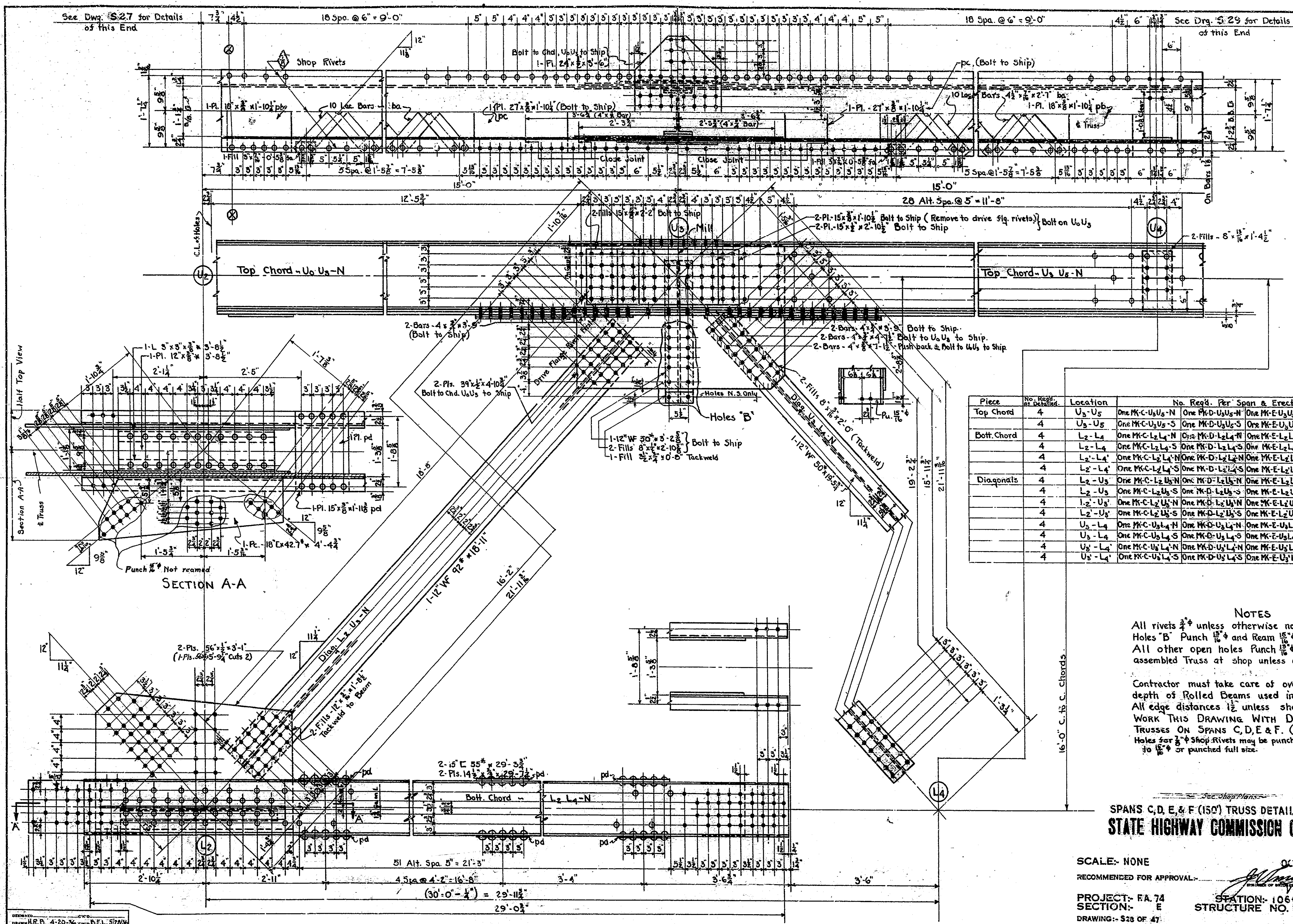
SCALE: NONE
 RECOMMENDED FOR APPROVAL: [Signature]
 PROJECT: F.A. 74 STATION: 106+46.47
 SECTION: E STRUCTURE NO. 1784
 DRAWING: S27 OF 47 BRIDGE CONTRACT NO. 1454

BRIDGE FILE: S2P-1784

REV. REF. CONSTRUCTION CHANGES: 9-26-39

BRIDGES OVER 20' SPAN					
PER. MADE	STATE	S. A.	PROJ. YEAR	PROJECT NO.	TOTAL SHEETS
7	IND.	14	1931	30	56

SECTION - E



Piece	No. Req'd. at Details	Location	No. Req'd. Per Span & Erection	Mark	As Shown
Top Chord	4	U ₃ -U ₅	One MK-C-U ₃ U ₅ -N, One MK-D-U ₃ U ₅ -N, One MK-E-U ₃ U ₅ -N, One MK-F-U ₃ U ₅ -N	As Shown	As Shown
Bot. Chord	4	U ₃ -U ₅	One MK-C-U ₃ U ₅ -S, One MK-D-U ₃ U ₅ -S, One MK-E-U ₃ U ₅ -S, One MK-F-U ₃ U ₅ -S	Opp. Hand	As Shown
	4	L ₂ -L ₄	One MK-C-L ₂ L ₄ -N, One MK-D-L ₂ L ₄ -N, One MK-E-L ₂ L ₄ -N, One MK-F-L ₂ L ₄ -N	Opp. Hand	As Shown
	4	L ₂ -L ₄	One MK-C-L ₂ L ₄ -S, One MK-D-L ₂ L ₄ -S, One MK-E-L ₂ L ₄ -S, One MK-F-L ₂ L ₄ -S	Opp. Hand	As Shown
Diagonals	4	L ₂ -U ₃	One MK-C-L ₂ U ₃ -N, One MK-D-L ₂ U ₃ -N, One MK-E-L ₂ U ₃ -N, One MK-F-L ₂ U ₃ -N	As Shown	As Shown
	4	L ₂ -U ₃	One MK-C-L ₂ U ₃ -S, One MK-D-L ₂ U ₃ -S, One MK-E-L ₂ U ₃ -S, One MK-F-L ₂ U ₃ -S	Alike	As Shown
	4	U ₃ -L ₄	One MK-C-U ₃ L ₄ -N, One MK-D-U ₃ L ₄ -N, One MK-E-U ₃ L ₄ -N, One MK-F-U ₃ L ₄ -N	Alike	As Shown
	4	U ₃ -L ₄	One MK-C-U ₃ L ₄ -S, One MK-D-U ₃ L ₄ -S, One MK-E-U ₃ L ₄ -S, One MK-F-U ₃ L ₄ -S	Alike	As Shown
	4	U ₃ -L ₄	One MK-C-U ₃ L ₄ -N, One MK-D-U ₃ L ₄ -N, One MK-E-U ₃ L ₄ -N, One MK-F-U ₃ L ₄ -N	Alike	As Shown
	4	U ₃ -L ₄	One MK-C-U ₃ L ₄ -S, One MK-D-U ₃ L ₄ -S, One MK-E-U ₃ L ₄ -S, One MK-F-U ₃ L ₄ -S	Alike	As Shown

NOTES

All rivets 3/4" unless otherwise noted.
 Holes "B" Punch 1 1/8" and Ream 1 1/4" to Steel Template.
 All other open holes Punch 1 1/8" and Ream 1 1/4" in assembled Truss at shop unless otherwise noted.

Contractor must take care of overrun or underrun in depth of Rolled Beams used in Trusses.
 All edge distances 1 1/2" unless shown otherwise.
 WORK THIS DRAWING WITH DWGS. 327 & 529 TRUSSES ON SPANS C, D, E & F. (150' SPANS)
 Holes for 3/4" Shop Rivets may be punched 1 1/8" and reamed to 1 1/4" or punched full size.

SPANS C, D, E & F (150') TRUSS DETAILS L₂ TO L₄
STATE HIGHWAY COMMISSION OF INDIANA

SCALE: NONE
 RECOMMENDED FOR APPROVAL: _____
 OCTOBER 20, 1936

PROJECT: FA 74
 SECTION: E
 DRAWING: S23 OF 47
 STATION: 106+46.47
 STRUCTURE NO. 178A

BRIDGE CONTRACT NO. 1454

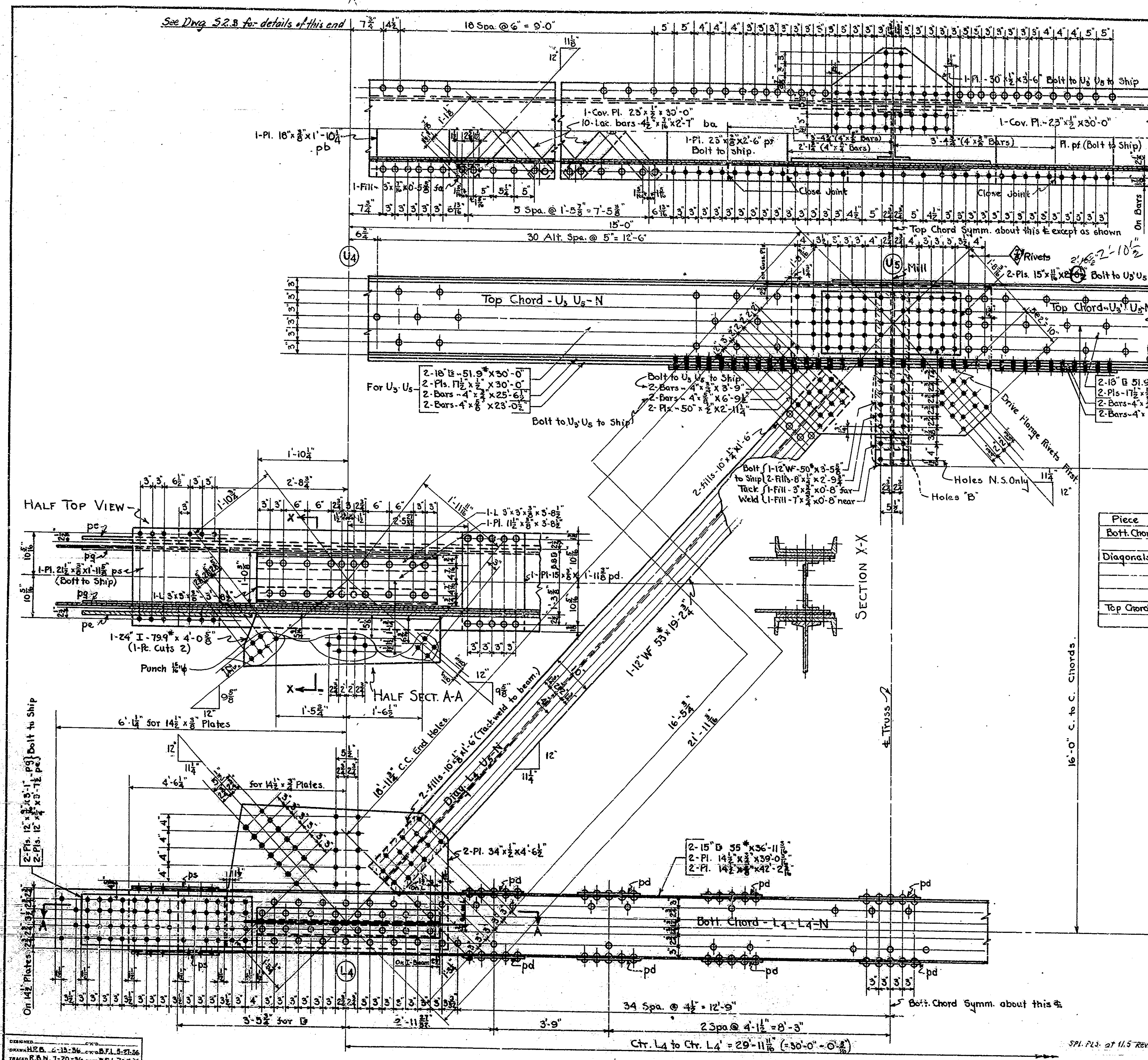
BRIDGE FILE: 52-P-1784

Chd. For Const. Changes - 9-20-36

BRIDGES OVER 20' SPAN					
YEAR	STATE	C.A.	DESIGNER	NO.	TOTAL
1930	IND.	74	1937	51	58
7	IND.	74	1937	51	58

SECTION - E

Remainder of U₃ U₅ is Same as U₃ U₅



Piece	No. Reqd. As Detailed	Location	No. Reqd. Per Span and Erection Mark	As Shown or Opp. Hand
Bottom Chord	4	L ₄ - L ₄ '	One MK-C-L ₄ -L ₄ '-N One MK-D-L ₄ -L ₄ '-N One MK-E-L ₄ -L ₄ '-N One MK-F-L ₄ -L ₄ '-N	
Diagonals	4	L ₄ - L ₄ '	One MK-C-L ₄ -L ₄ '-S One MK-D-L ₄ -L ₄ '-S One MK-E-L ₄ -L ₄ '-S One MK-F-L ₄ -L ₄ '-S	Attk
	4	L ₄ - U ₅	One MK-C-L ₄ -U ₅ -S One MK-D-L ₄ -U ₅ -S One MK-E-L ₄ -U ₅ -S One MK-F-L ₄ -U ₅ -S	Attk
	4	L ₄ ' - U ₅	One MK-C-L ₄ '-U ₅ -N One MK-D-L ₄ '-U ₅ -N One MK-E-L ₄ '-U ₅ -N One MK-F-L ₄ '-U ₅ -N	Attk
Top Chord	4	U ₃ - U ₅	One MK-C-U ₃ -U ₅ -N One MK-D-U ₃ -U ₅ -N One MK-E-U ₃ -U ₅ -N One MK-F-U ₃ -U ₅ -N	As Shown
	4	U ₅ - U ₅	One MK-C-U ₅ -U ₅ -S One MK-D-U ₅ -U ₅ -S One MK-E-U ₅ -U ₅ -S One MK-F-U ₅ -U ₅ -S	Opp. Hand

GENERAL NOTES
 All Rivets - $\frac{3}{4}$ " Unless Noted.
 Holes 'B' - Punch $\frac{15}{16}$ " and Ream $\frac{15}{16}$ " to Steel Template.
 All other open holes - punch $\frac{15}{16}$ " and ream $\frac{15}{16}$ " in assembled truss at shop unless noted.
 Contractor must take care of overrun or underrun in depths of Rolled Beams used in Trusses.
 All edge distances - $\frac{1}{2}$ " unless shown otherwise.
 WORK THIS DRAWING WITH DWG. 527-5-528
 Holes for $\frac{3}{8}$ " Shop Rivets: may be Punched $\frac{7}{16}$ " and Reamed to $\frac{3}{8}$ " or Punched full size.

SPANS C, D, E, & F (150') TRUSS DETAILS U₄ TO U₅
STATE HIGHWAY COMMISSION OF INDIANA

SCALE: NONE
 RECOMMENDED FOR APPROVAL: _____
 OCTOBER 20, 1936

PROJECT: 74
 SECTION: E
 STATION: 106+46.47
 STRUCTURE NO. 1784

BRIDGE CONTRACT NO. 1454

DESIGNED BY: H.R.B.
 DRAWN BY: H.R.B.
 CHECKED BY: R.A.N.

SPL. PLS. at 11.5 Rev. 1-22-37 B.R.L.

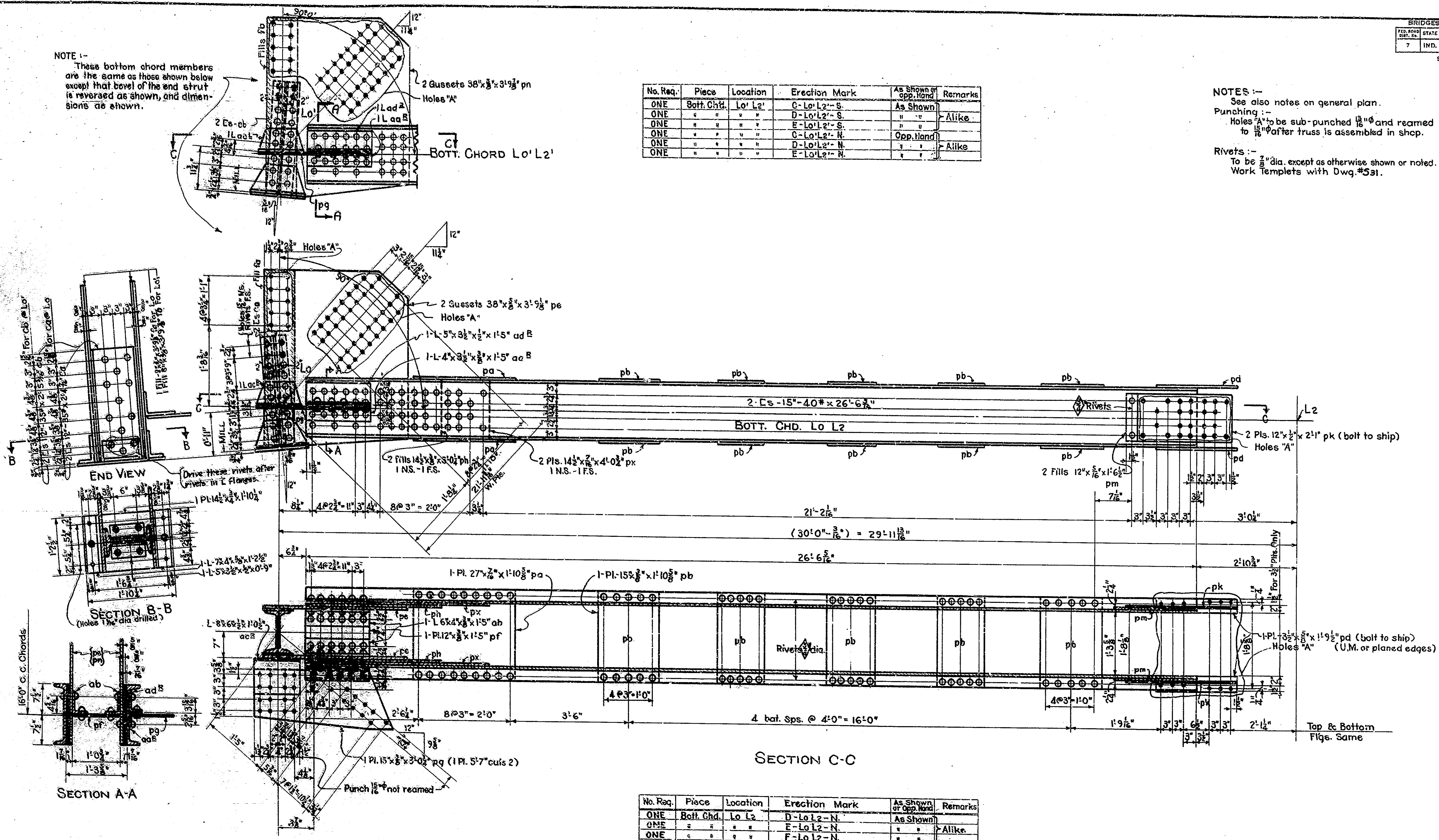
BRIDGE FILE: 52-D-1784

SPL. PLS. at U.S. Rev. 1-22-37 for Changes 5-25-39

NOTE 1-
These bottom chord members are the same as those shown below except that bowl of the end strut is reversed as shown, and dimensions as shown.

No. Req.	Piece	Location	Erection Mark	As Shown or Opp. Hand	Remarks
ONE	Bot. Chd.	Lo' L2'	C-Lo' L2'-S.	As Shown	
ONE	"	"	D-Lo' L2'-S.	"	Alike
ONE	"	"	E-Lo' L2'-S.	"	"
ONE	"	"	C-Lo' L2'-N.	Opp. Hand	Alike
ONE	"	"	D-Lo' L2'-N.	"	"
ONE	"	"	E-Lo' L2'-N.	"	"

NOTES :-
See also notes on general plan.
Punching :-
Holes "A" to be sub-punched $\frac{1}{8}$ " and reamed to $\frac{15}{16}$ " after truss is assembled in shop.
Rivets :-
To be $\frac{3}{8}$ " dia. except as otherwise shown or noted.
Work Templates with Dwg. #531.



No. Req.	Piece	Location	Erection Mark	As Shown or Opp. Hand	Remarks
ONE	Bot. Chd.	Lo L2	D-Lo L2-N.	As Shown	
ONE	"	"	E-Lo L2-N.	"	Alike
ONE	"	"	F-Lo L2-N.	"	"
ONE	"	"	D-Lo L2-S.	Opp. Hand	Alike
ONE	"	"	E-Lo L2-S.	"	"
ONE	"	"	F-Lo L2-S.	"	"

See Shop Plans -
SPANS C, D, & E BOTTOM CHORDS Lo L2 - SPANS D, E, & F BOTTOM CHORDS Lo L2
STATE HIGHWAY COMMISSION OF INDIANA

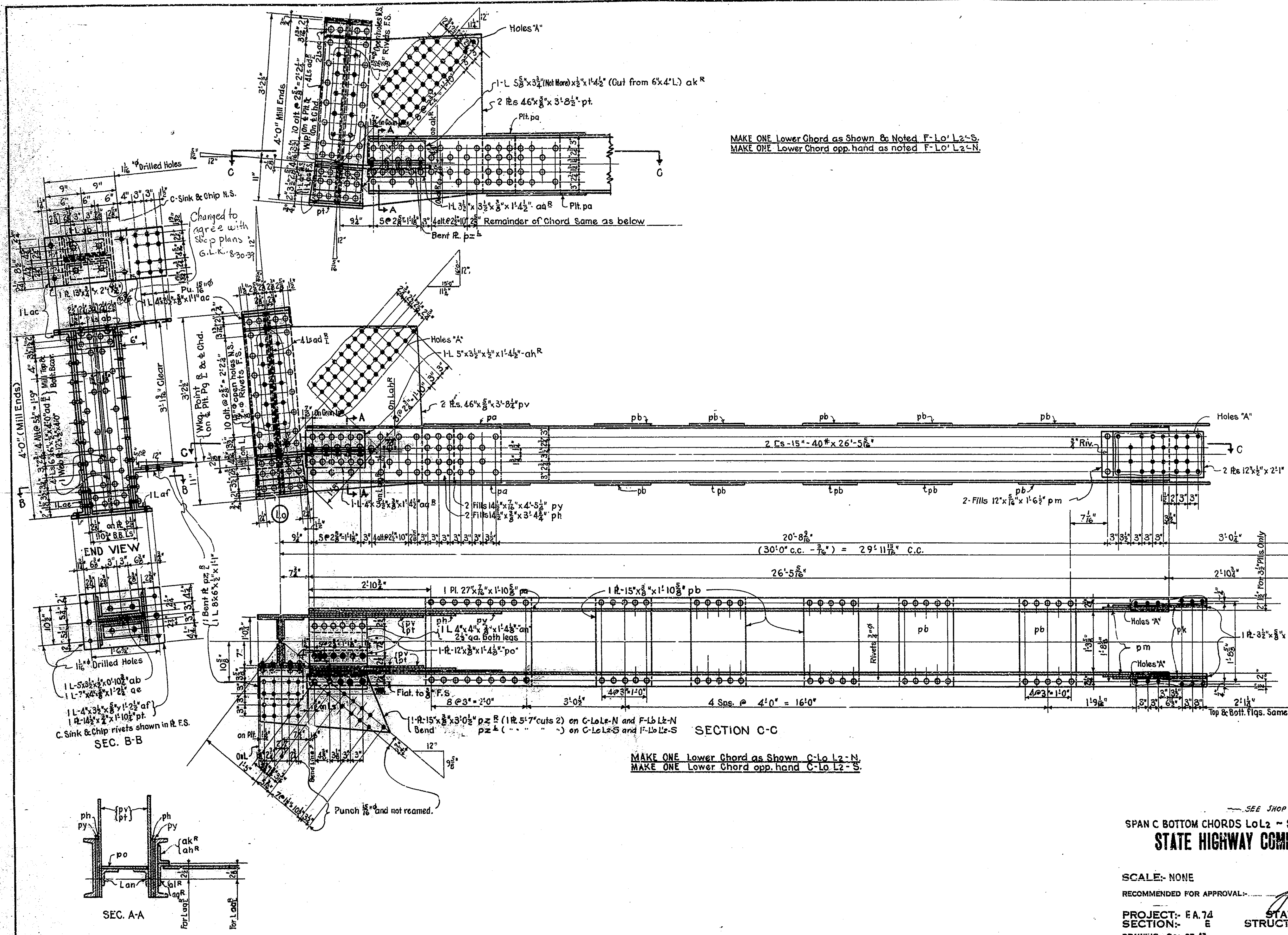
SCALE: NONE
RECOMMENDED FOR APPROVAL: *[Signature]* OCTOBER 20, 1936

PROJECT: F.A. 74
SECTION: E
DRAWING: 330 OF 47
STATION: 106+46.47
STRUCTURE NO. 1784

BRIDGE CONTRACT NO. 1454

BRIDGES OVER 20' SPAN						
DIST. NO.	STATE	F.A. YEAR	PROJ. NO.	SHEET NO.	TOTAL SHEETS	
7	IND.	14	1937	33	58	

SECTION - E



MAKE ONE Lower Chord as Shown & Noted F-Lo' L2-S.
MAKE ONE Lower Chord opp. hand as noted F-Lo' L2-N.

MAKE ONE Lower Chord as Shown C-Lo L2-N.
MAKE ONE Lower Chord opp. hand C-Lo L2-S.

(L2)
pk (bolt to ship)
pk (bolt to ship)
(U.M. or Planed edges)

NOTES :-
Also see notes on general plan (Dwg #2)
Punching :-
Holes "A" to be sub-punched 1/8" and reamed to 1/8" after truss is assembled in shop.
Rivets :- To be 3/4" dia. except as noted.
Work Templates with Dwg. S90.

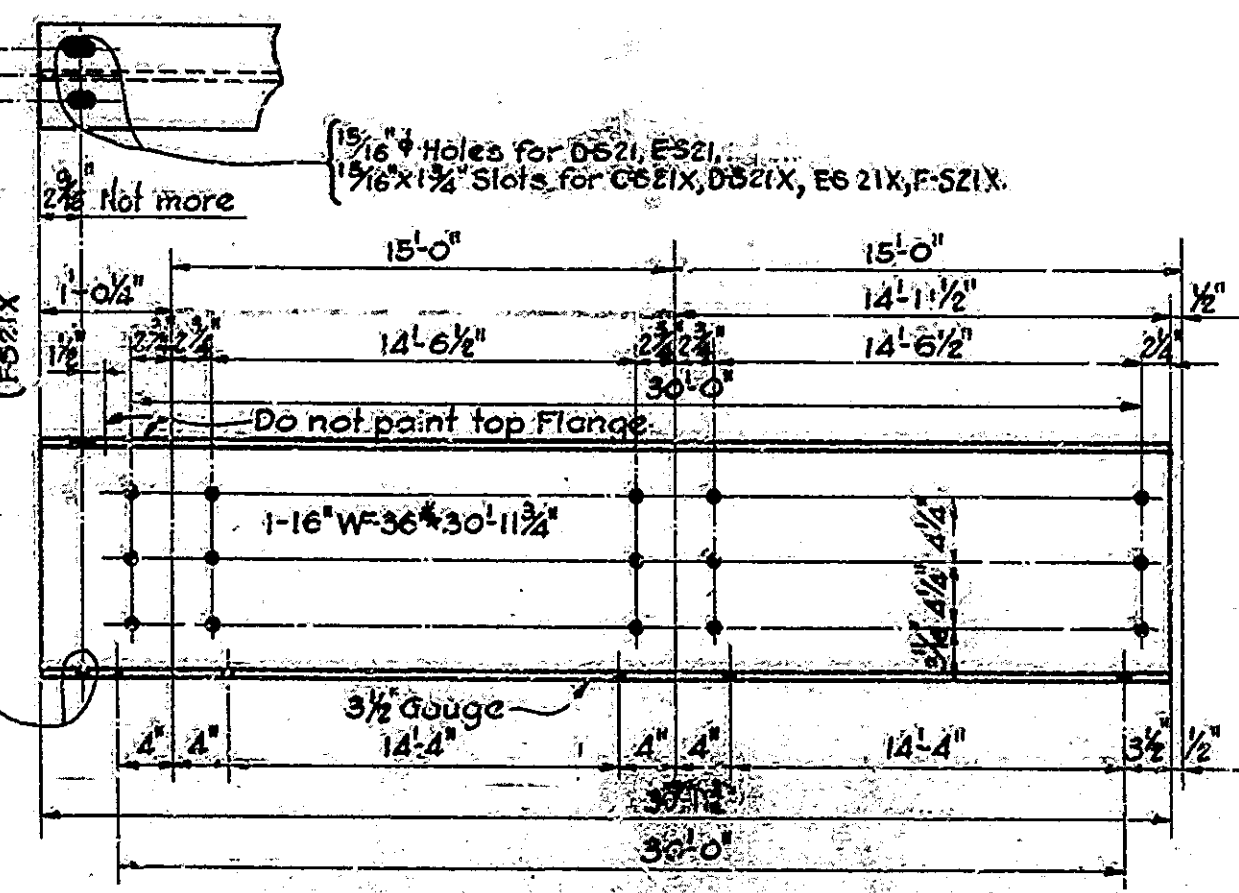
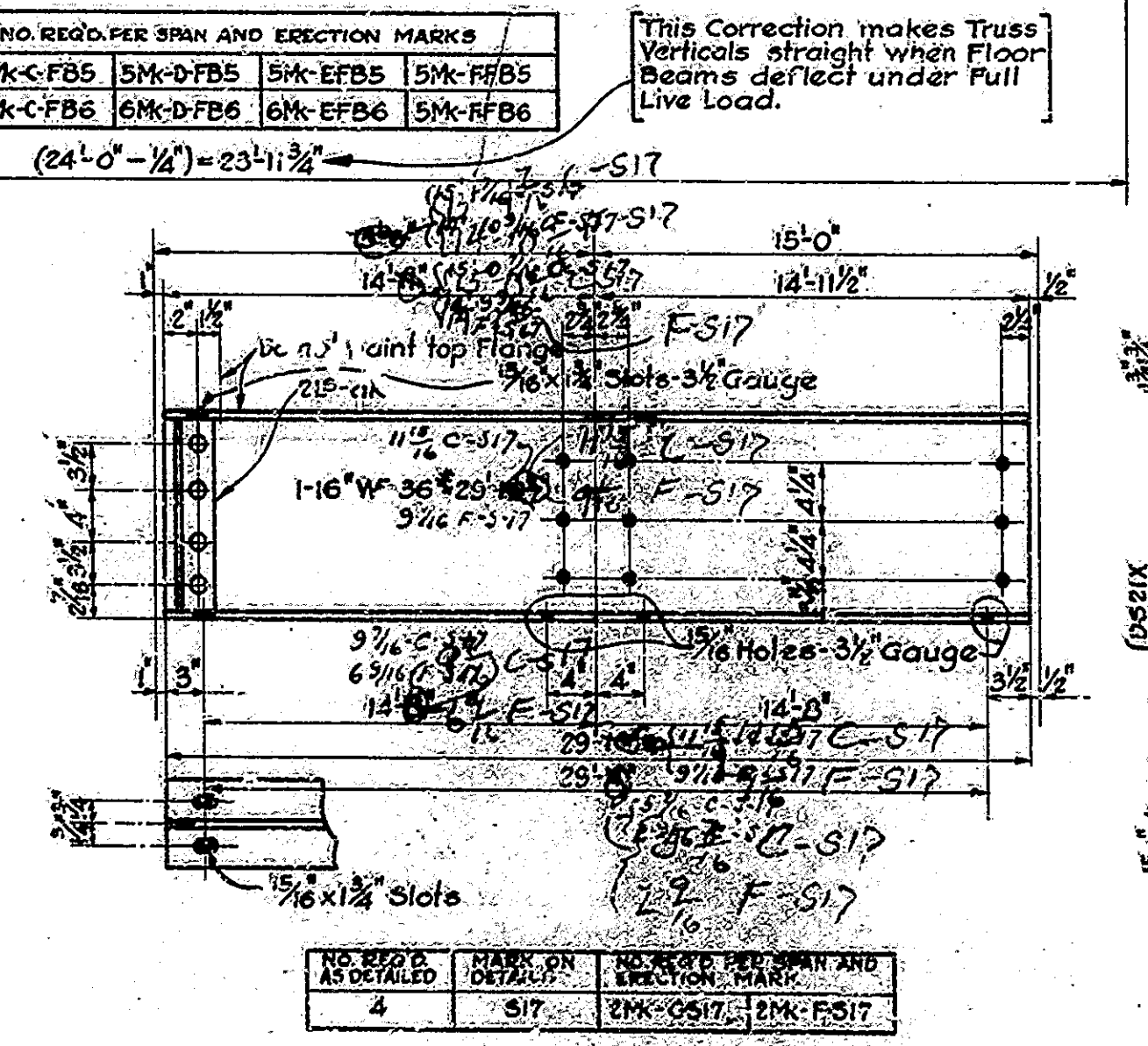
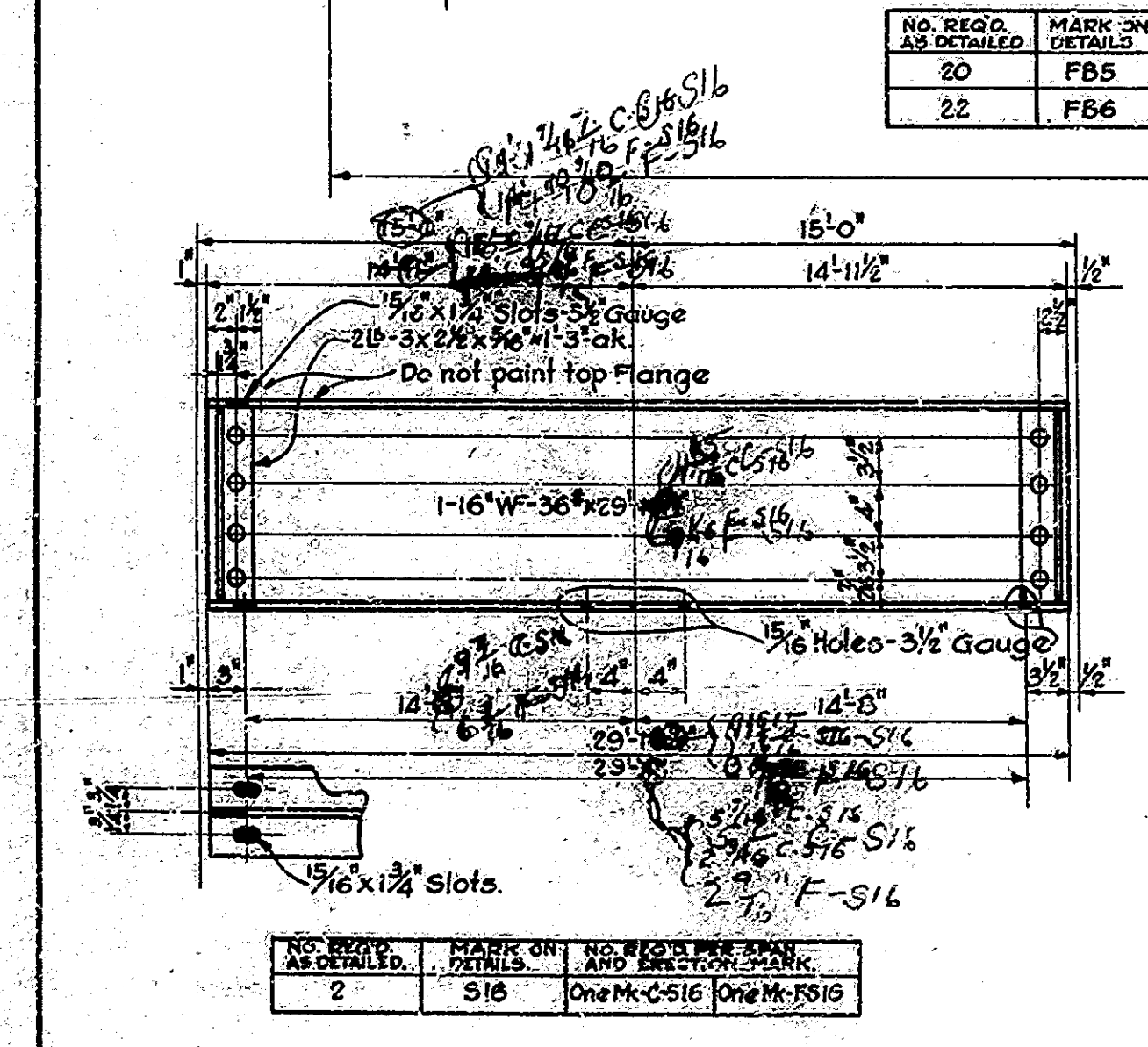
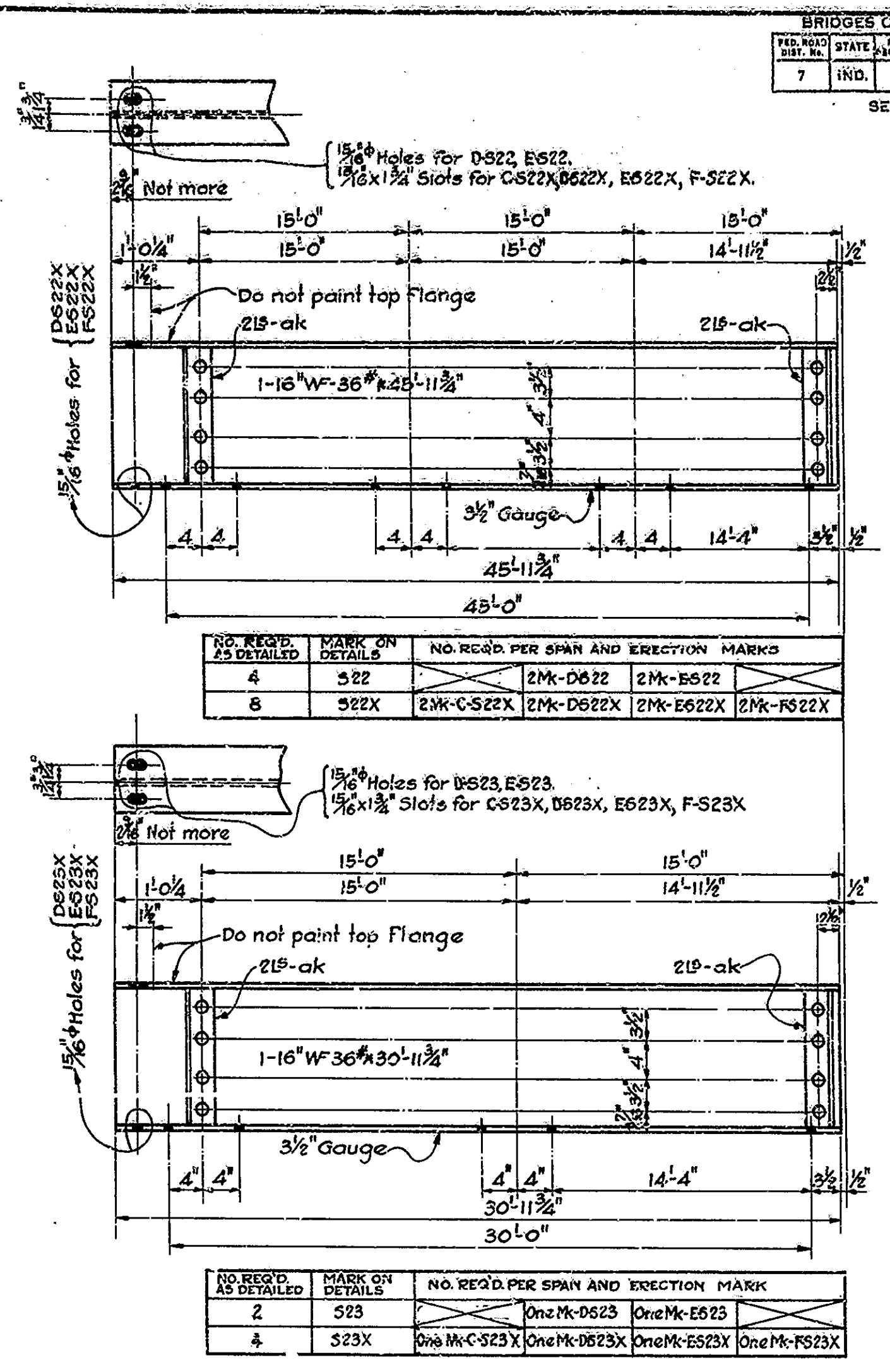
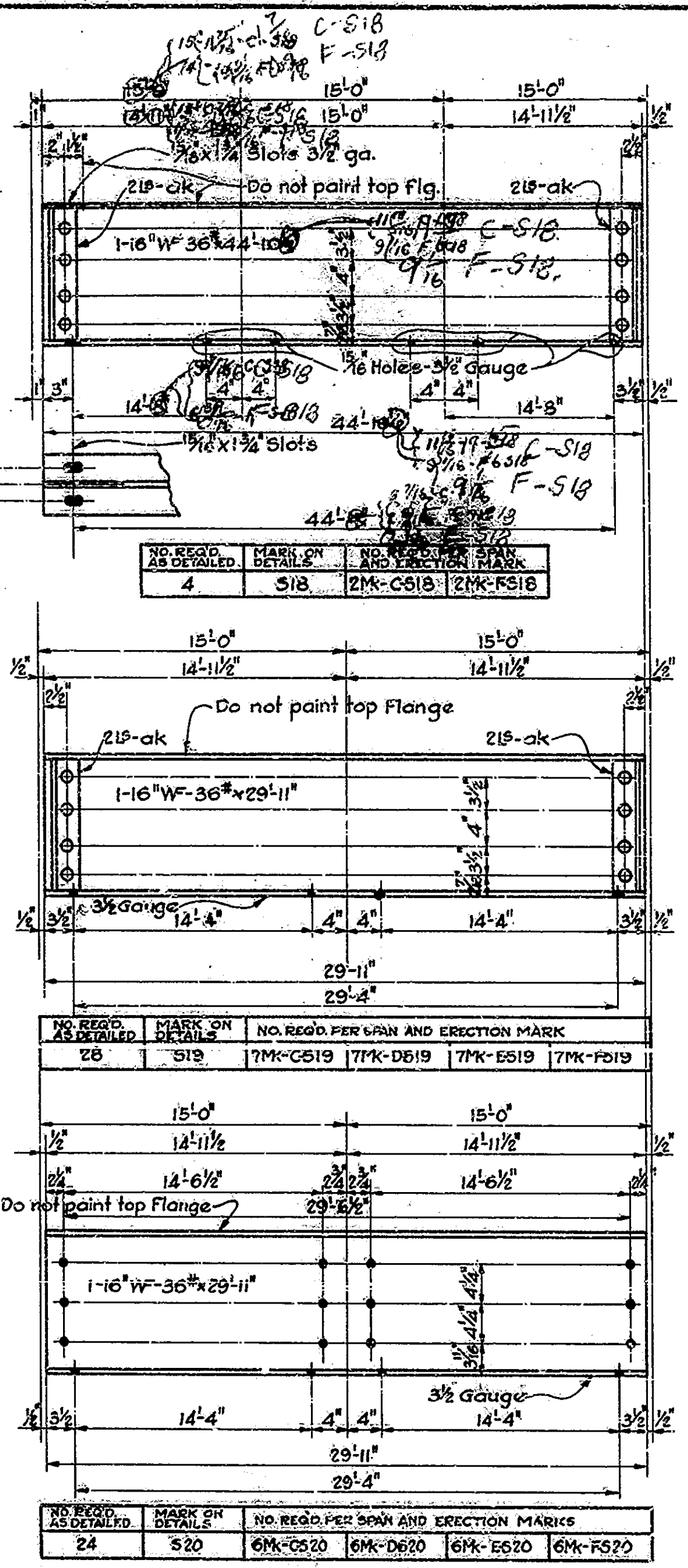
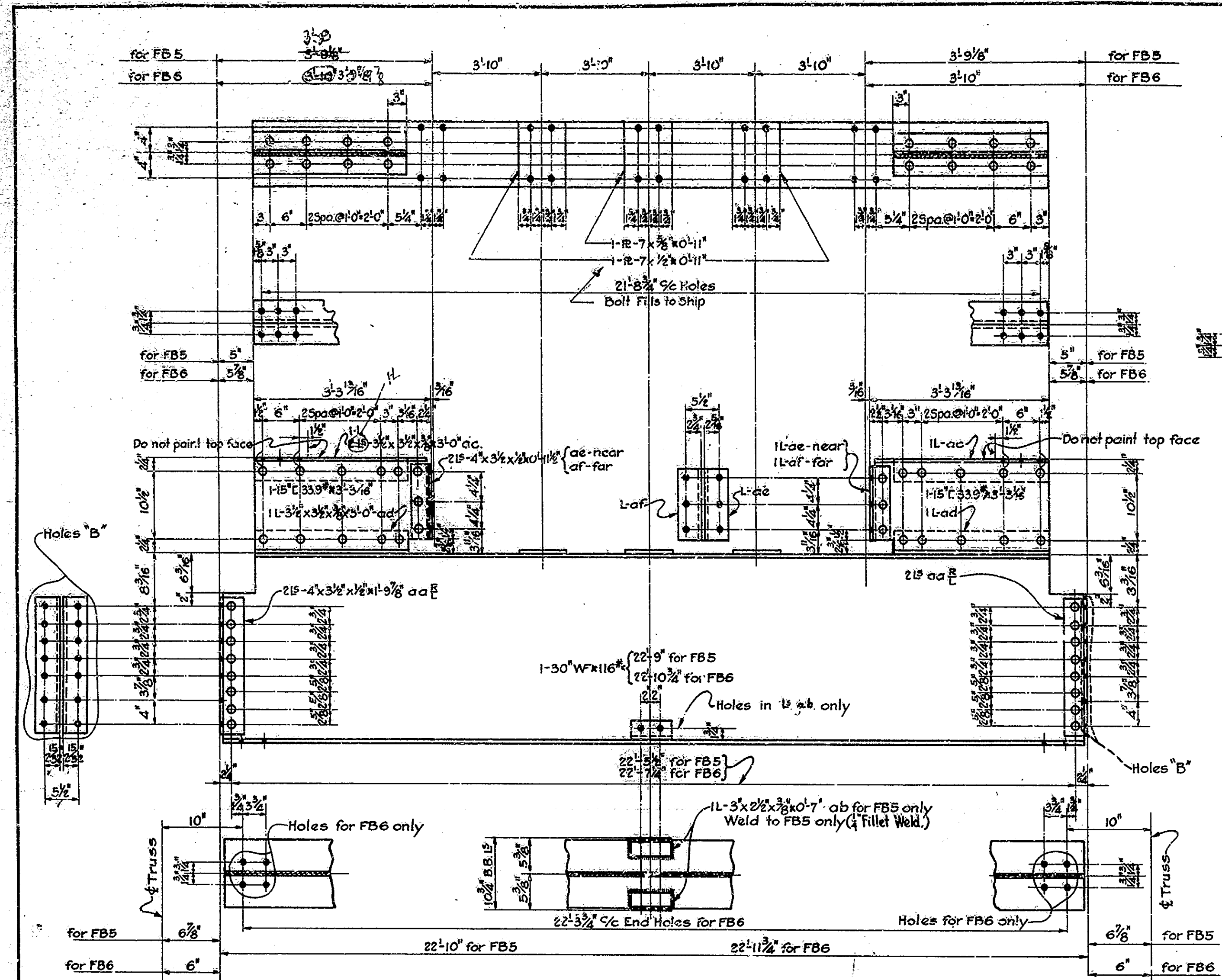
SEE SHOP PLANS
SPAN C BOTTOM CHORDS L2-N ~ SPAN F BOTTOM CHORD L2-S
STATE HIGHWAY COMMISSION OF INDIANA

SCALE: NONE
RECOMMENDED FOR APPROVAL: [Signature]
PROJECT: F.A. 74
SECTION: E
DRAWING: - 33 OF 47
STATION: 106+46.87
STRUCTURE NO. 1784
BRIDGE CONTRACT NO. 1454

DESIGNED	R.E.L. 12-2-33	BY	A.W.M. 12-2-33
DRAWN	R.H.H. 4-2-34	CHECKED	R.L.S. 8-2-34
TRACED	O.S.B. 8-2-34	BY	R.L.S. 8-2-34

BRIDGES OVER 20' SPAN				
FED. ROAD DIST. NO.	STATE	A.A.C. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	IND.	72	1937	54

SECTION - E



GENERAL NOTES:-
 Holes "B" Punch 1 7/8" and ream 1 7/8" to Steel Template.
 Rivets - 7/8" Holes 1 7/8" except as noted.
 Contractor must take care of overrun or underrun in depth of rolled beams.

SPANS C, D, E, & F FLOOR BEAMS AND STRINGERS
 STATE HIGHWAY COMMISSION OF INDIANA

SCALE: NONE
 RECOMMENDED FOR APPROVAL: _____
 OCTOBER 20, 1936

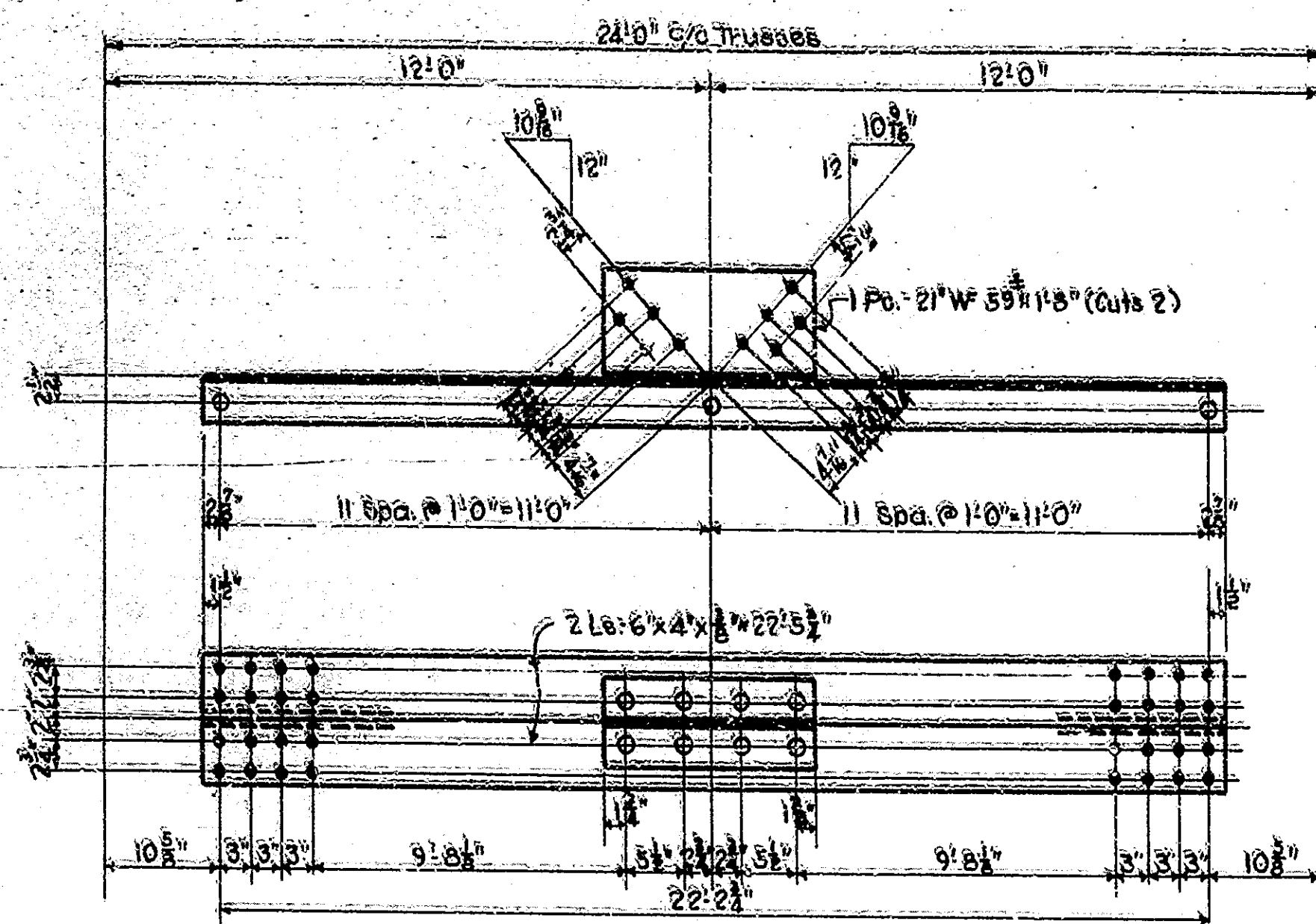
PROJECT: FA. 74
 SECTION: E
 DRAWING: S-32 OF 47
 STATION: 106+46.47
 STRUCTURE NO. 1784

BRIDGE CONTRACT NO. 1454

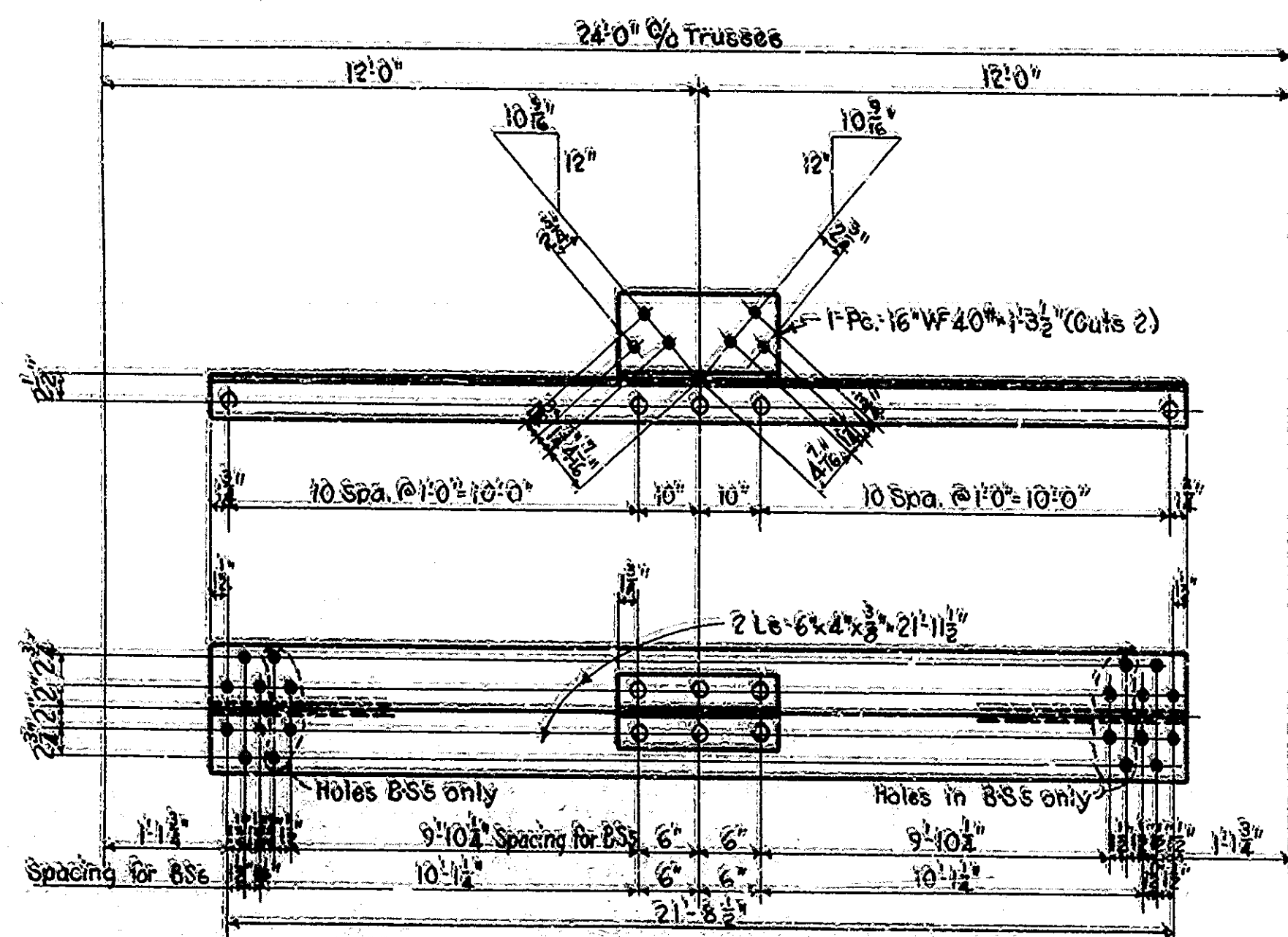
BRIDGE FILE: S2-P-1784

DESIGNED BY: H. L. 11-23-35
 DRAWN BY: H. L. 10-50
 CHECKED BY: H. L. 10-26
 TRACED BY: H. L. 10-26

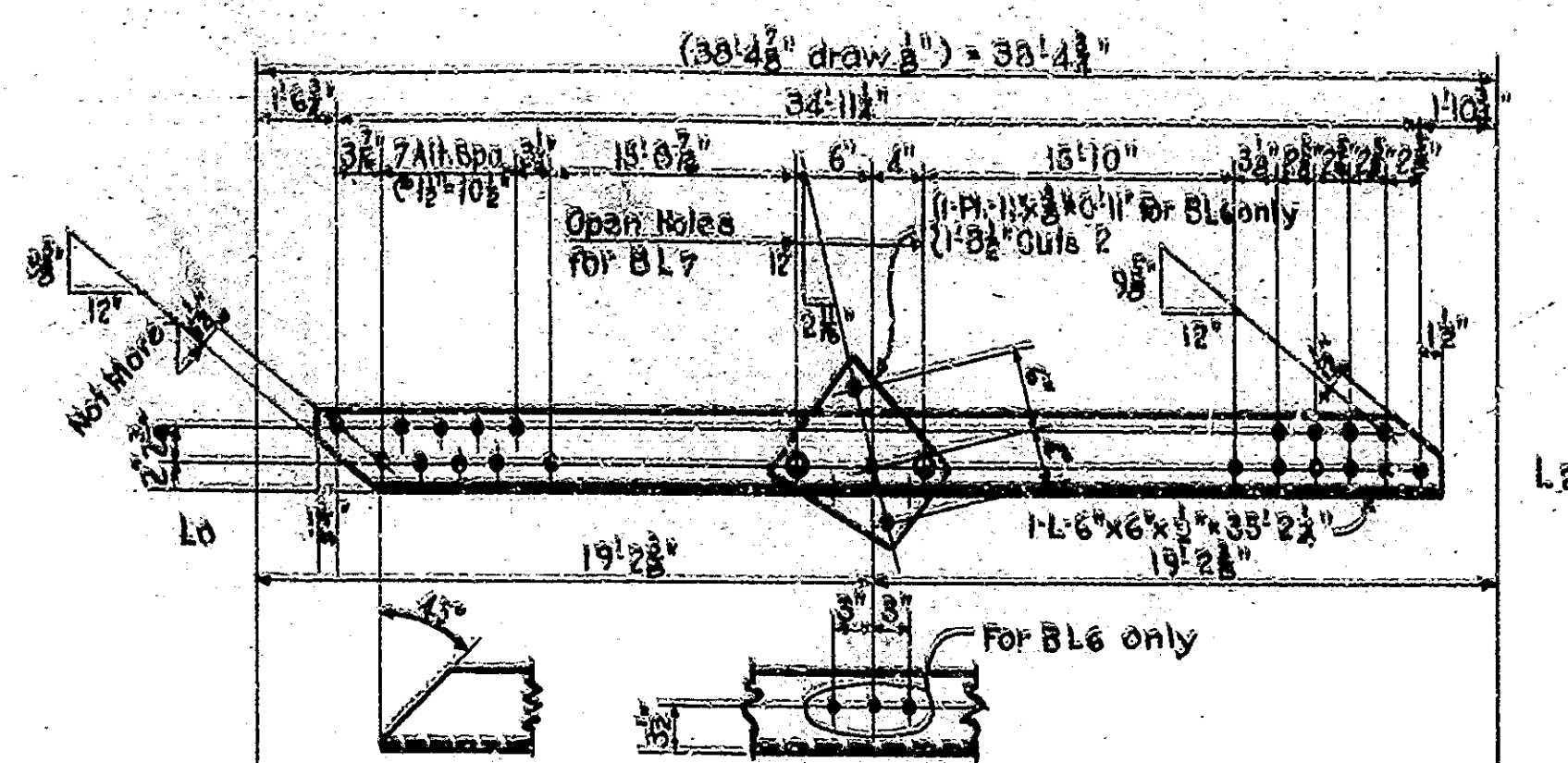
REV. FOR CONSTR. CHANGES - 9-26-39



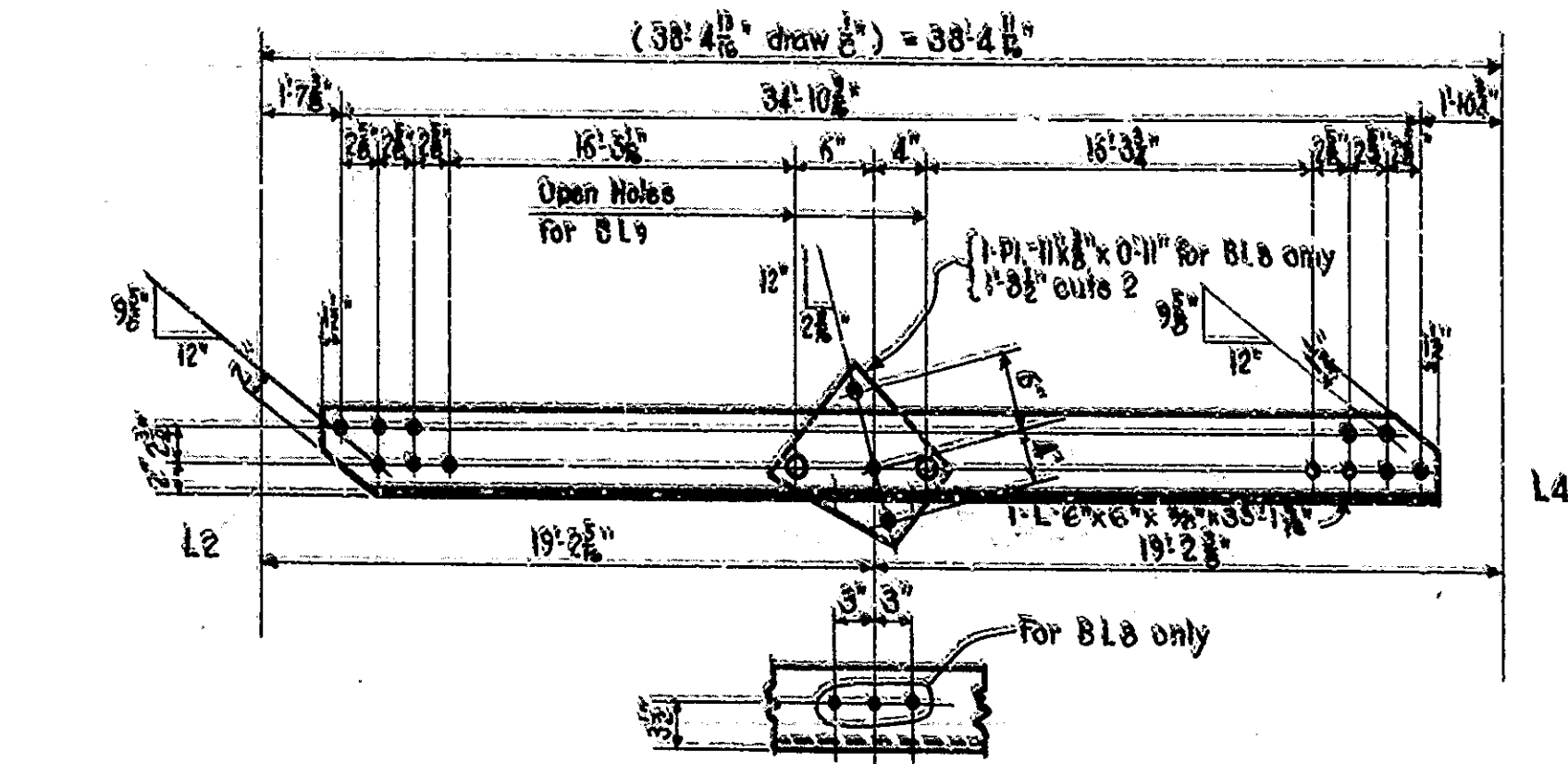
No. Reqd. as detailed	Mark on Details	No. Reqd. Per Span and Erection Mark
6	B S 4	One MK-DBS4 2MK-DBS4 2MK-EB S4 One MK-FBS4



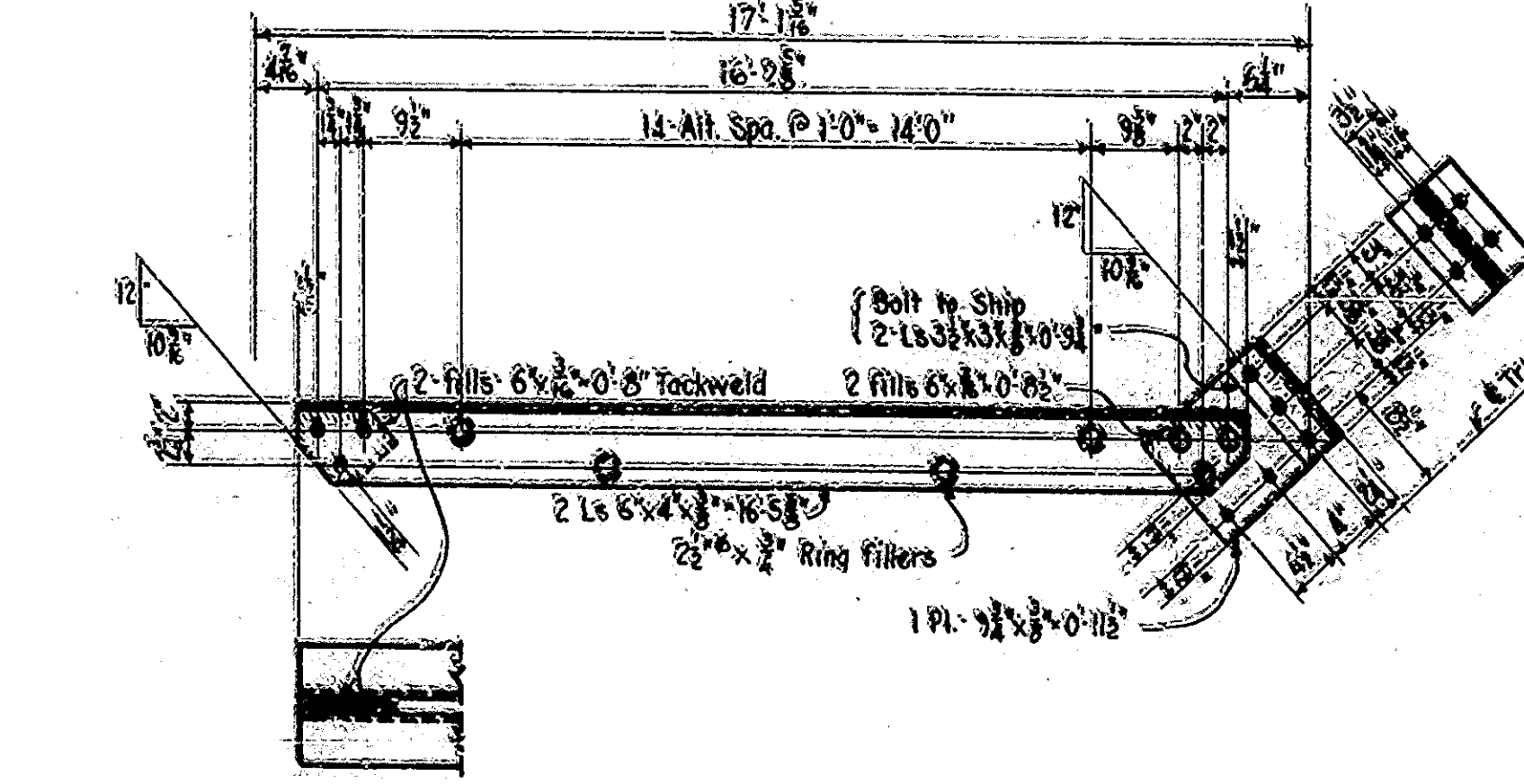
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8	B S 5	2MK-DBS5 2MK-DBS5 2MK-EB S5 2MK-FBS5
8	B S 6	2MK-DBS6 2MK-DBS6 2MK-EB S6 2MK-FBS6



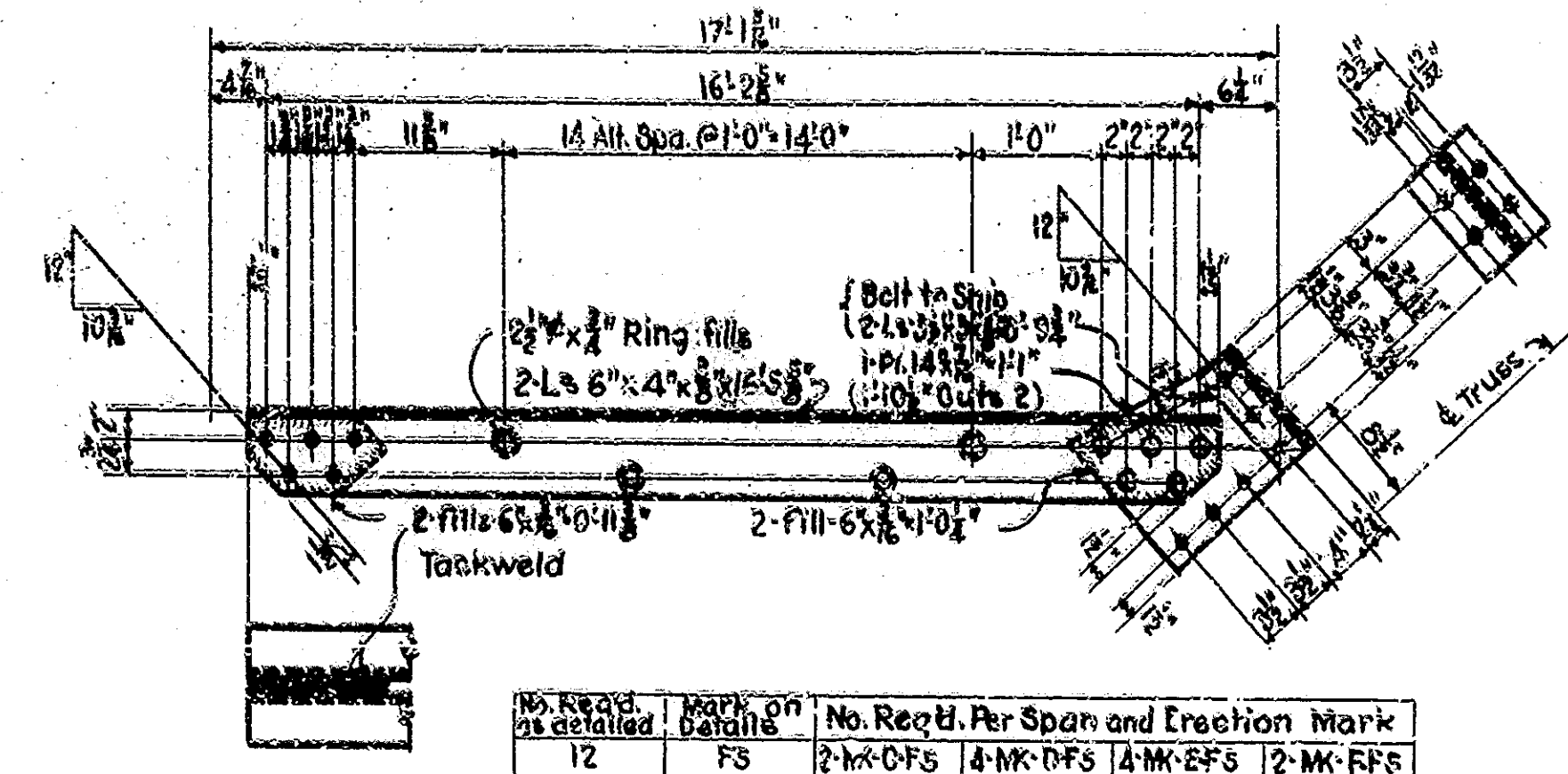
No. Reqd. as detailed	Mark on Details	No. Reqd. Per Span and Erection Mark
8	B L 6	2 MK-DBL6 2MK-DBL6 2MK-EB L6 2MK-FBL6
8	B L 7	2 MK-DBL7 2MK-DBL7 2MK-EB L7 2MK-FBL7



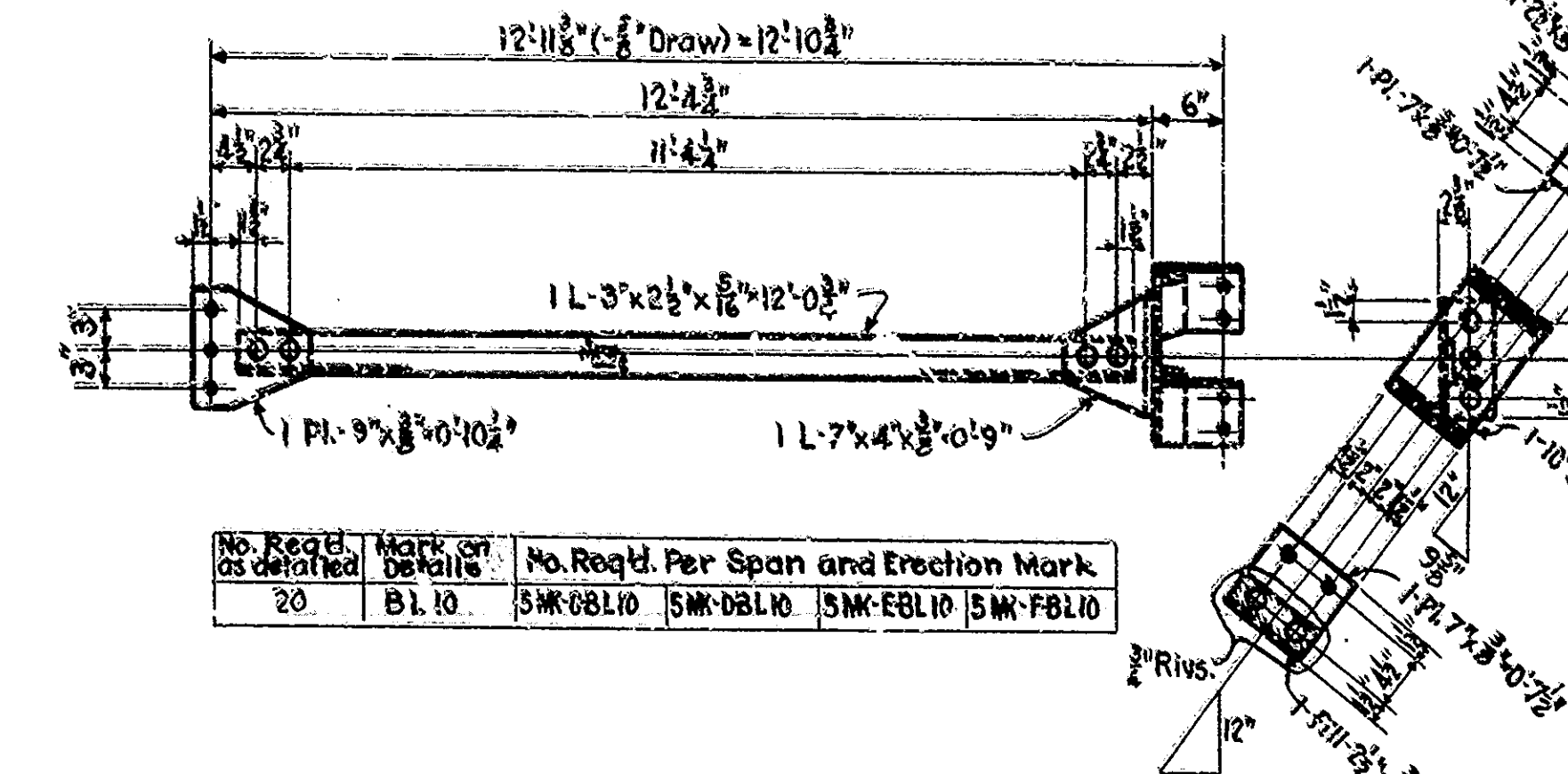
No. Reqd. as detailed	Mark on Details	No. Reqd. Per Span and Erection Mark
8	B L 8	2 MK-DBL8 2MK-DBL8 2MK-EB L8 2MK-FBL8
8	B L 9	2 MK-DBL9 2MK-DBL9 2MK-EB L9 2MK-FBL9



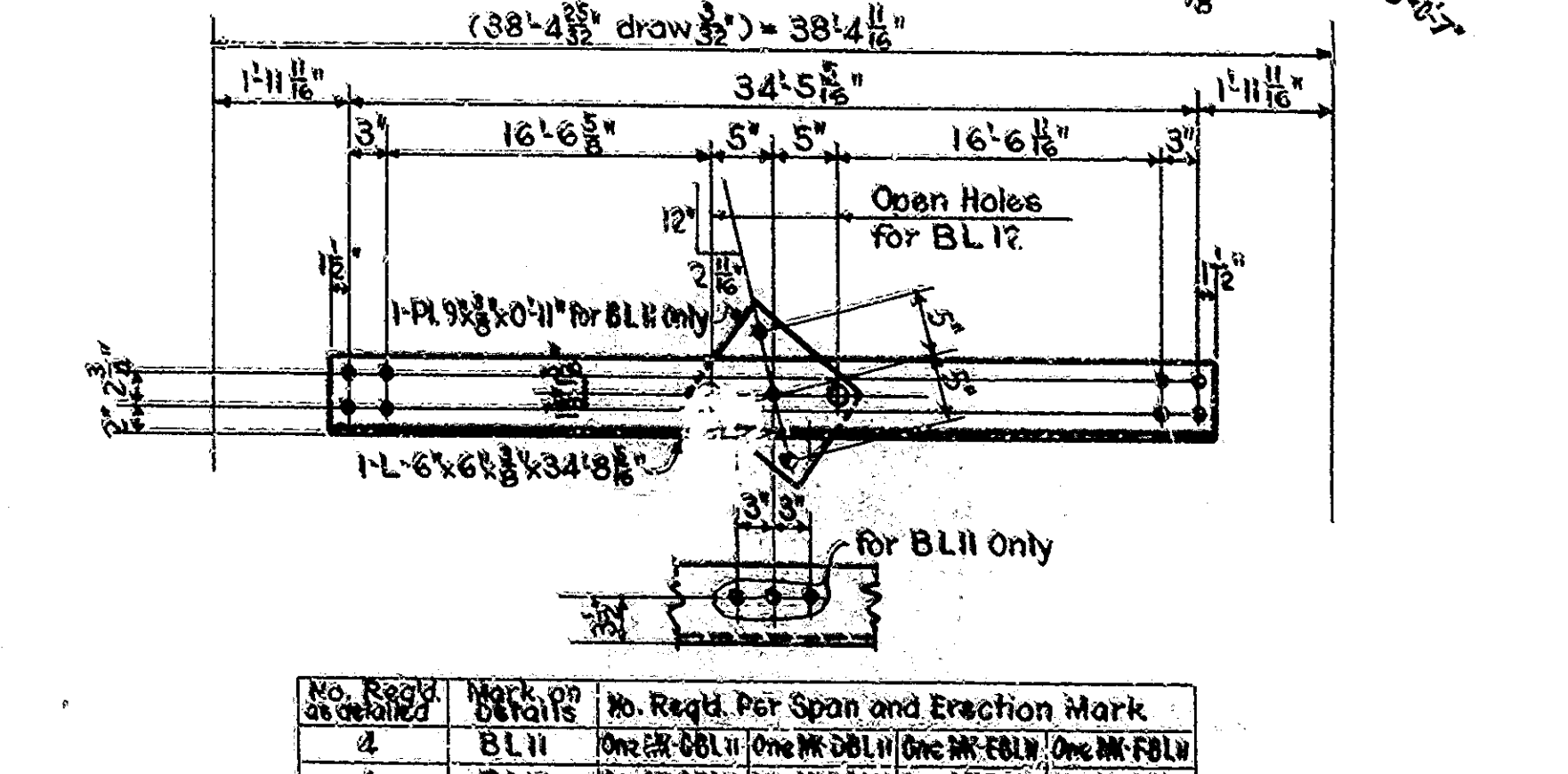
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32	F 4	8 MK-DF4 8MK-DF4 8MK-EF4 8MK-FF4



No. Reqd. as detailed	Mark on Details	No. Reqd. Per Span and Erection Mark
12	F 5	2 MK-DF5 4MK-DF5 4MK-EF5 2MK-FF5



No. Reqd. as detailed	Mark on Details	No. Reqd. Per Span and Erection Mark
20	B L 10	5MK-DBL10 5MK-DBL10 5MK-EB L10 5MK-FBL10



No. Reqd. as detailed	Mark on Details	No. Reqd. Per Span and Erection Mark
4	B L 11	One MK-DBL11 One MK-DBL11 One MK-EB L11 One MK-FBL11
4	B L 12	One MK-DBL12 One MK-DBL12 One MK-EB L12 One MK-FBL12

SPANS C, D, E, & F. BOTTOM, LATERALS AND STRUTS
 STATE HIGHWAY COMMISSION OF INDIA

General Notes :-
 Rivets Unless Noted
 1/2" Holes

SCALE: NONE
 RECOMMENDED FOR APPROVAL: _____
 DATE: OCTOBER 20, 1936

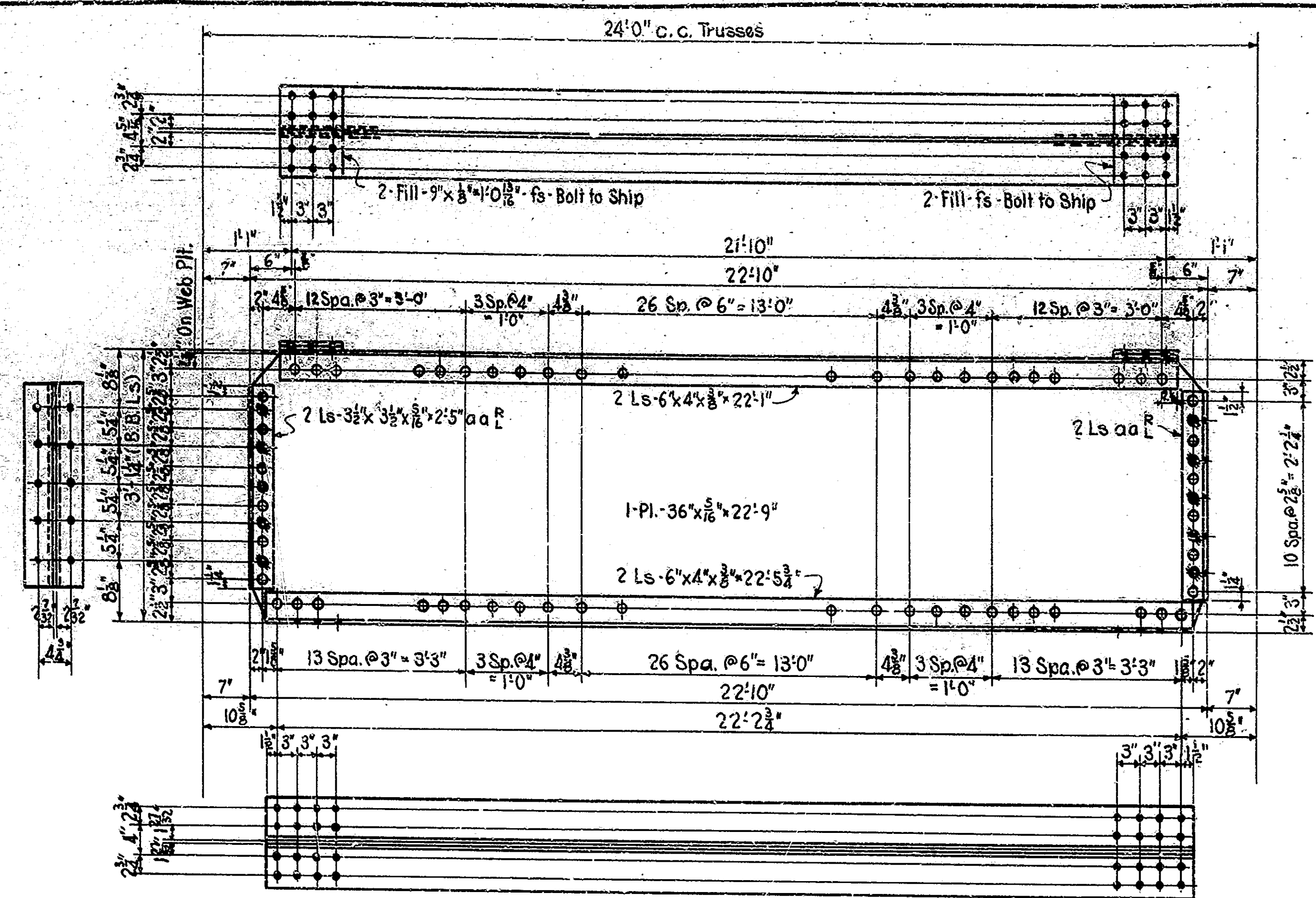
PROJECT: C.A. 74
 SECTION: E
 DRAWING: 533 OF 47

STATION: 106+46.47
 STRUCTURE NO. 1784

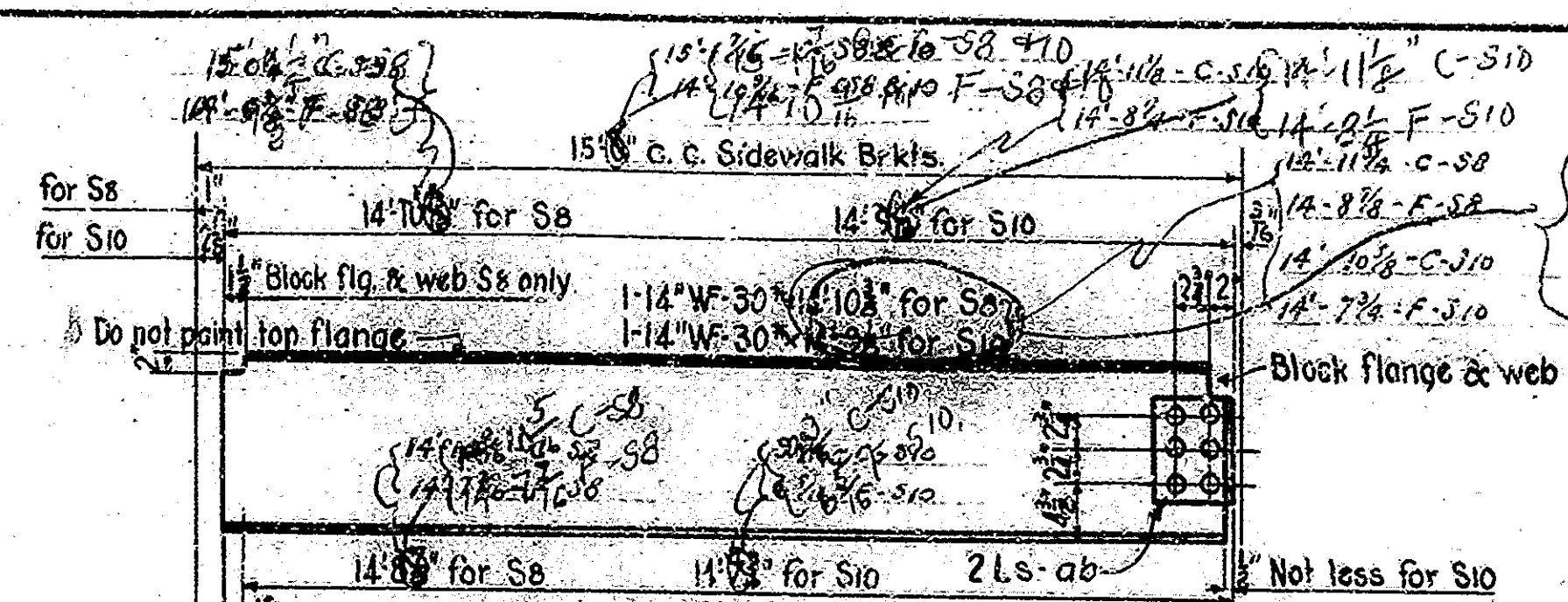
BRIDGE CONTRACT NO. 1454

BRIDGES OVER 20' SPAN					
PER. ROAD DIST. NO.	STATE	A. R.	FOUN. DIST.	NO.	TOTAL SHEETS
7	IND.	74	1931	25	28

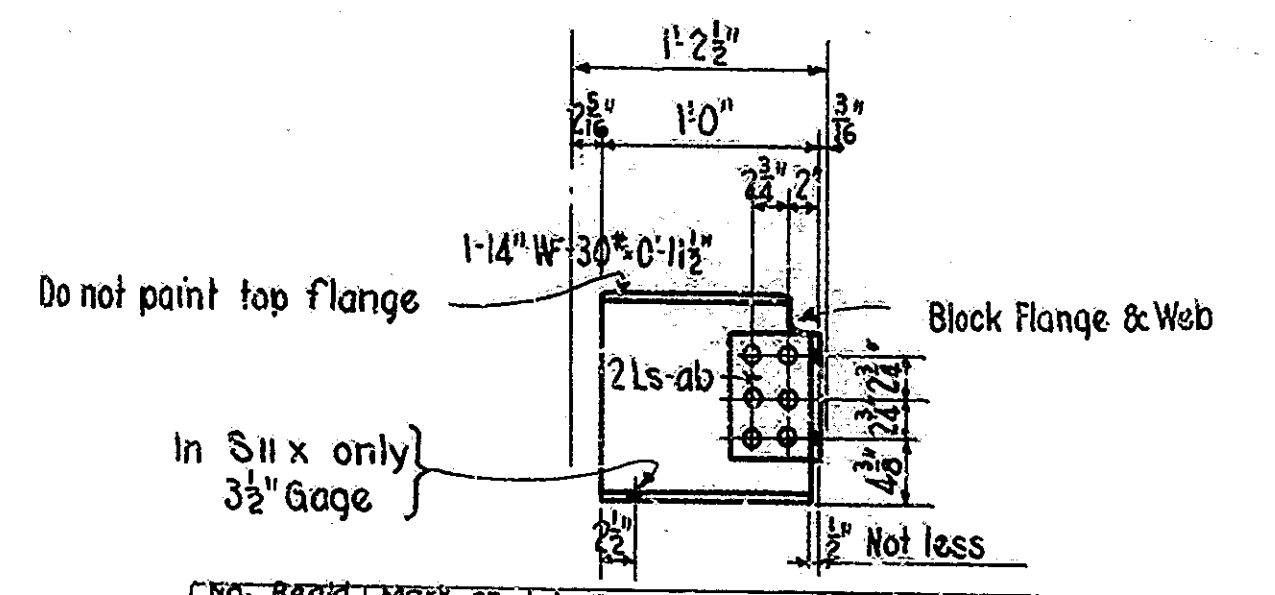
SECTION - E



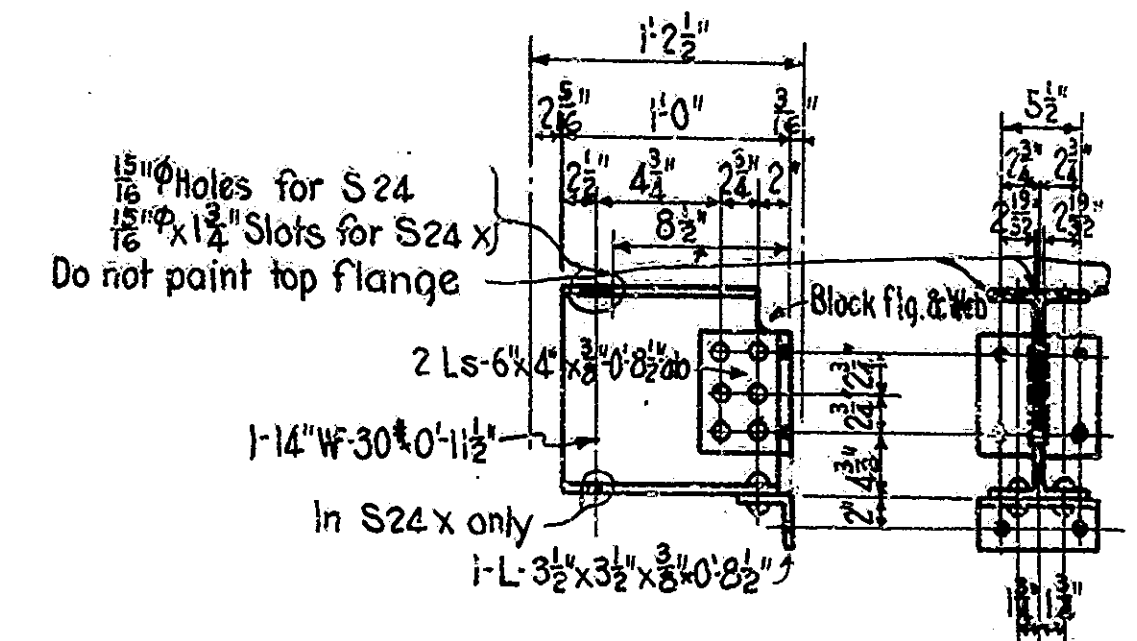
No. Req'd. as detailed	Mark on Details	No. Req'd. Per Span and Erection Marks
2	B S 7	One MK-CBS7 One MK-FBS7



No. Req'd. as detailed	Mark on Details	No. Req'd. Per Span and Erection Marks
4	S8	2 MK-C-S8 2 MK-F-S8
4	S10	2 MK-C-S10 2 MK-F-S10

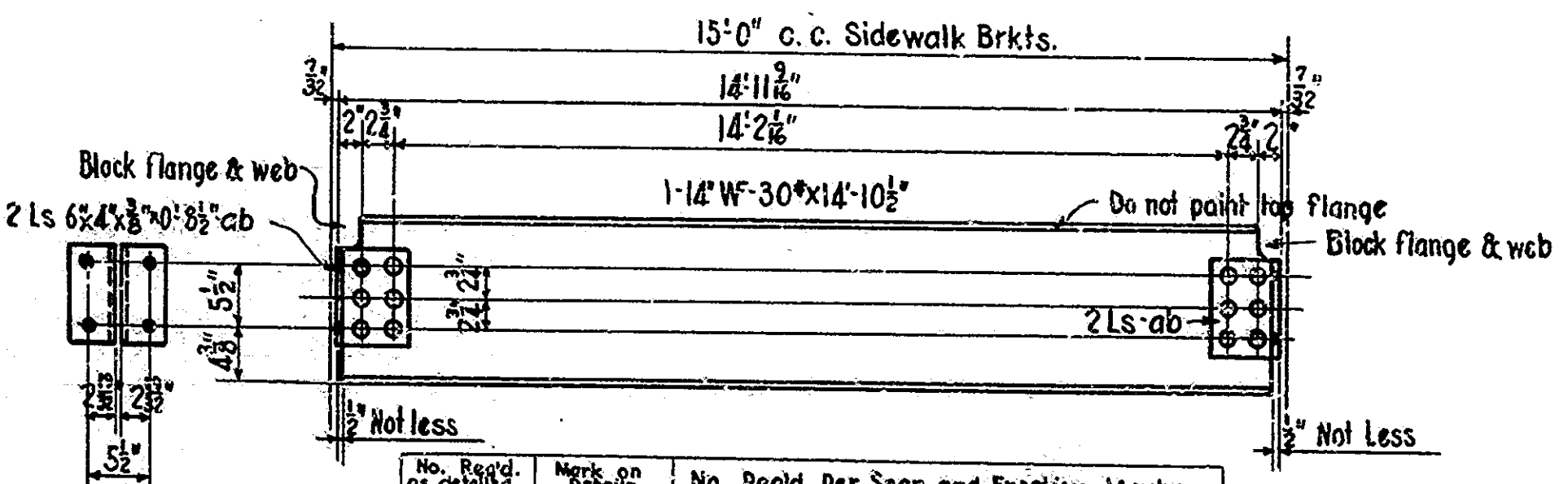


No. Req'd. as detailed	Mark on Details	No. Req'd. Per Span and Erection Mark
9	S11	2 MK-C-S11 3 MK-D-S11 3 MK-F-S11 1 MK-F-S11
3	S11 x	1 MK-D-S11 x 1 MK-F-S11 x 1 MK-F-S11 x

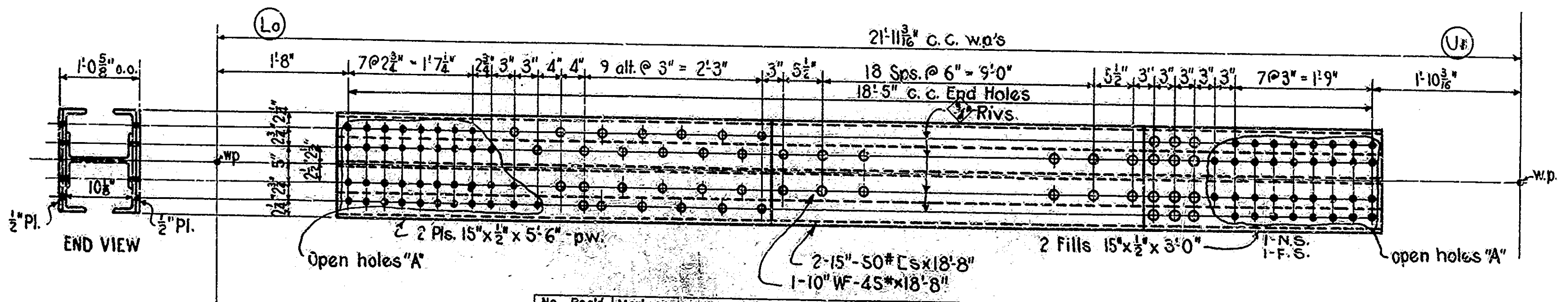


No. Req'd. as detailed	Mark on Details	No. Req'd. Per Span and Erection Mark
4	S24	2 MK-D-S24 2 MK-F-S24
8	S24 x	2 MK-C-S24 x 2 MK-D-S24 x 2 MK-F-S24 x 2 MK-F-S24 x

NOTE :-
Rivets 7/8" unless noted.
Open Holes 1 1/2" unless noted.
Open Holes marked 'A' to be punched 1 1/2" and reamed to 1 3/8" while shop assembled.



No. Req'd. as detailed	Mark on Details	No. Req'd. Per Span and Erection Marks
152	S6	36 MK-C-S6 140 MK-D-S6 140 MK-F-S6 36 MK-F-S6



No. Req'd. as detailed	Mark on Details	No. Req'd. Per Span and Erection Mark
2	Lo U	One MK-C-Lo U One MK-F-Lo U One MK-F-Lo U
2	Lo U	One MK-C-Lo U-F.S. One MK-F-Lo U-F.S.

Alike

See Shop Plans

SPANS C, D, E & F, DIAGONALS C-Lo U1 & F-Lo U1, STRUTS C-B S7 & F-B S7

STATE HIGHWAY COMMISSION OF INDIANA

SCALE: NONE

OCTOBER 20, 1936

RECOMMENDED FOR APPROVAL: [Signature]

PROJECT: F.A. 74 STATION: 106+46.47

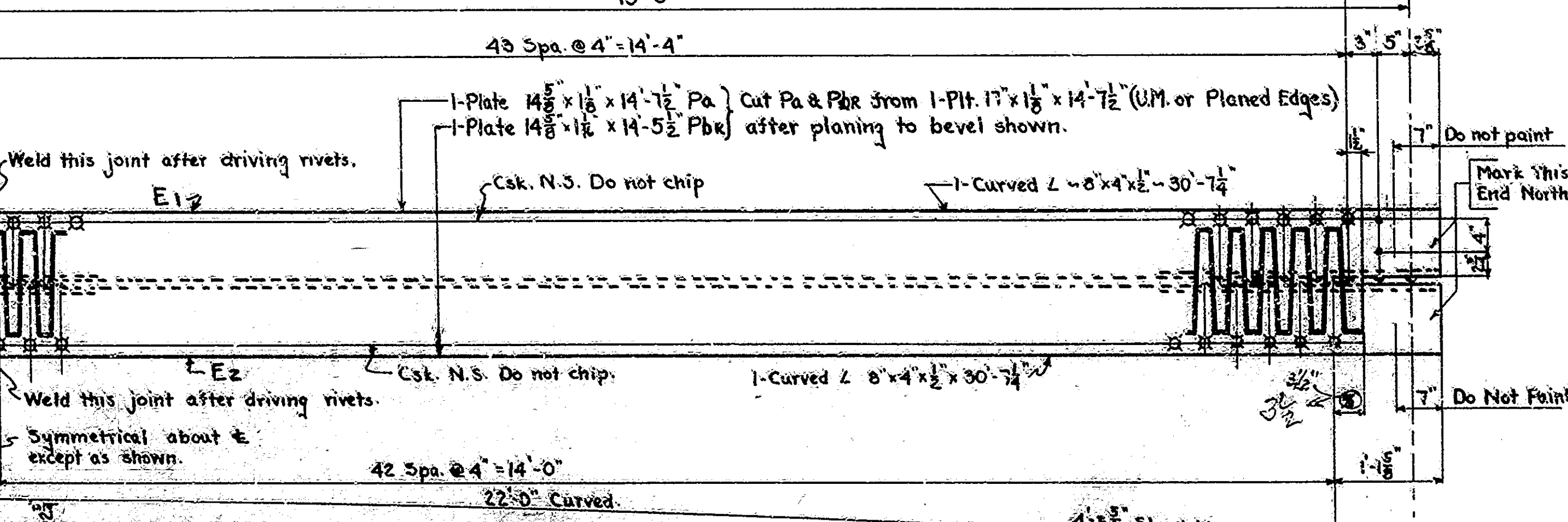
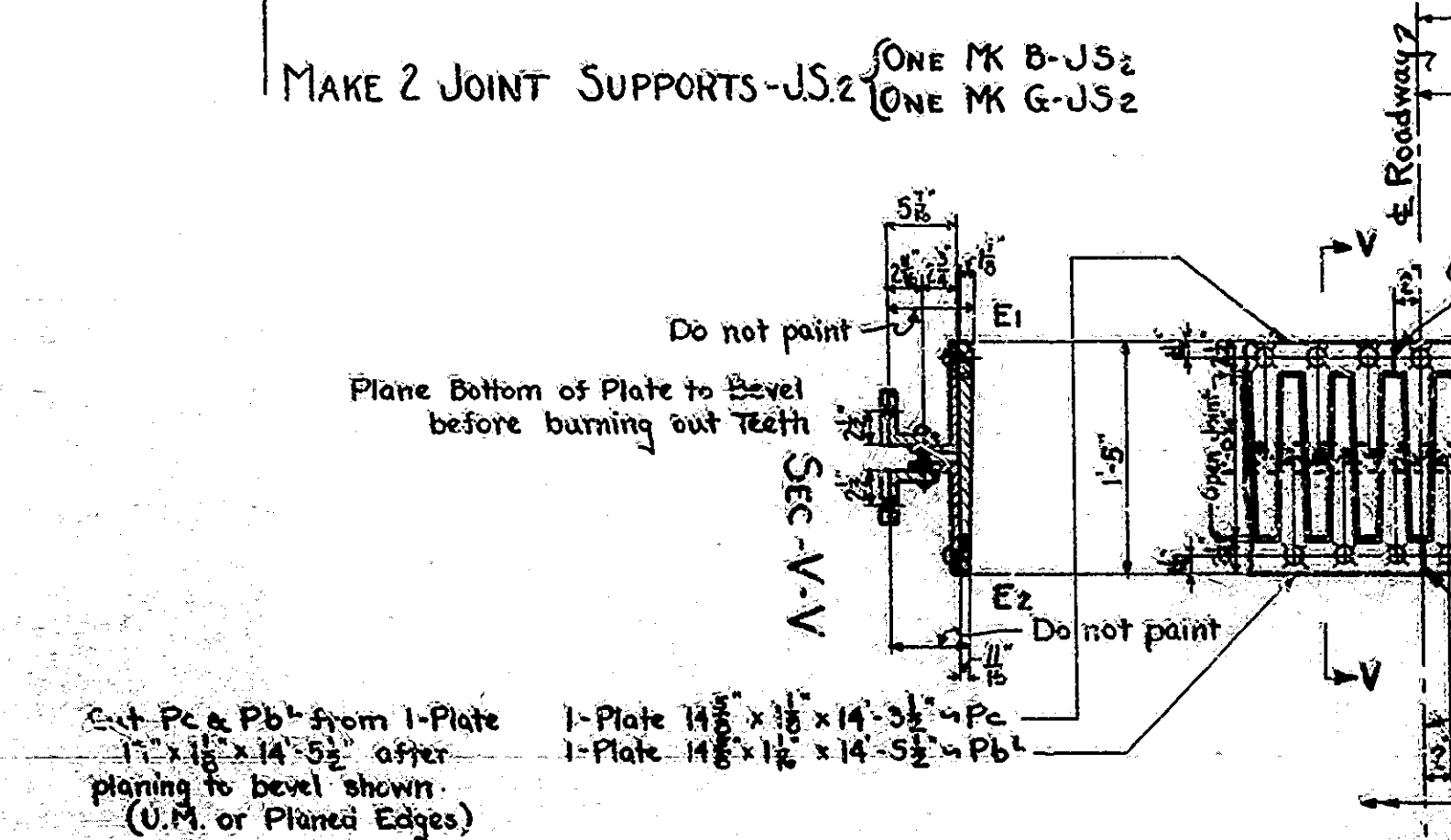
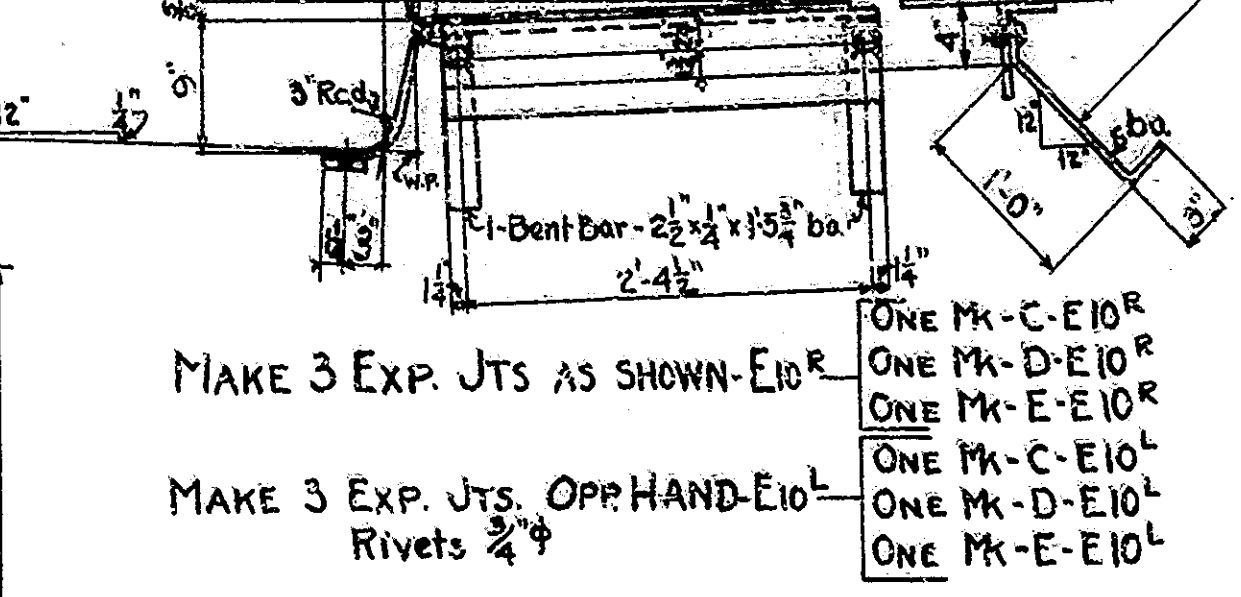
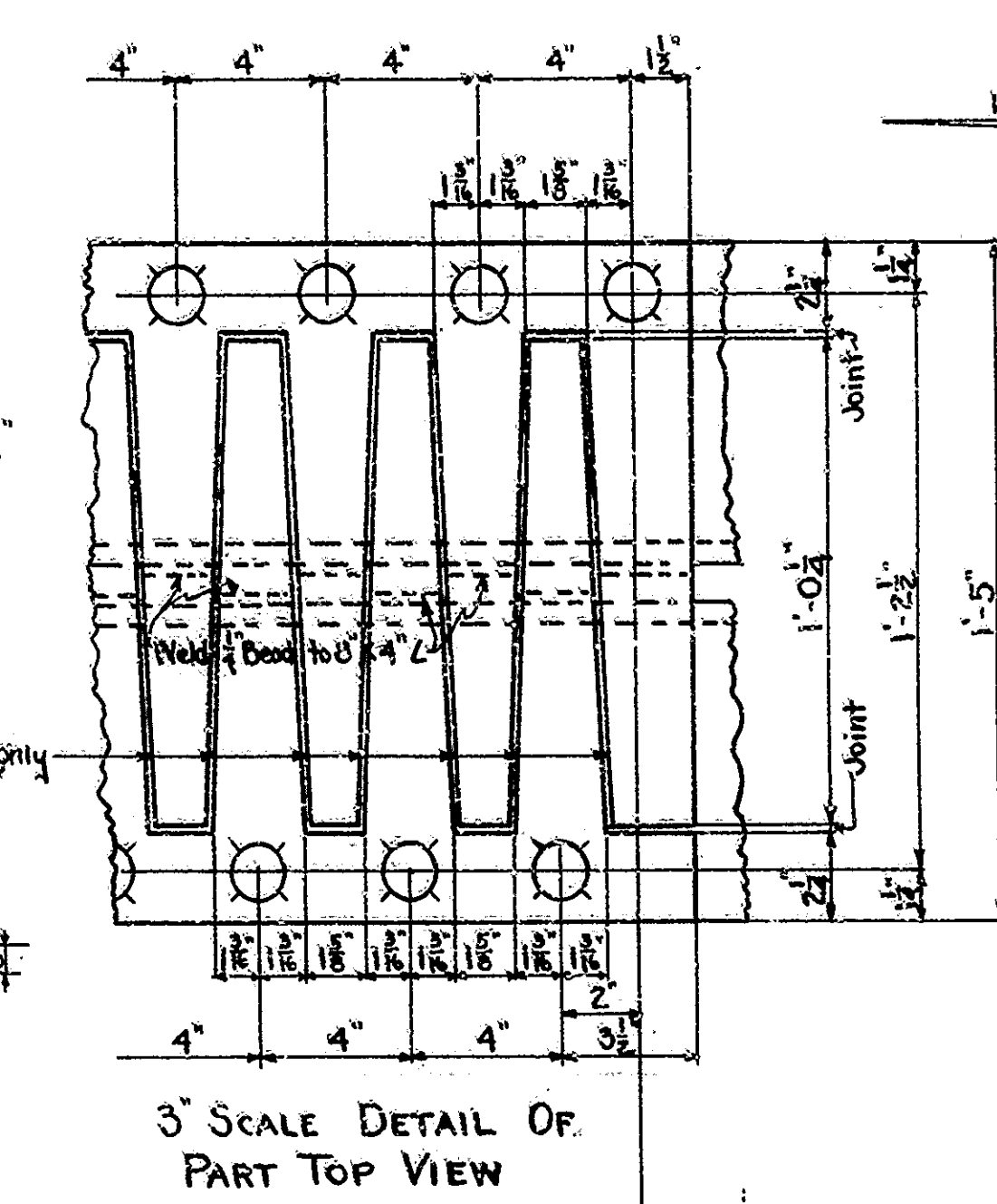
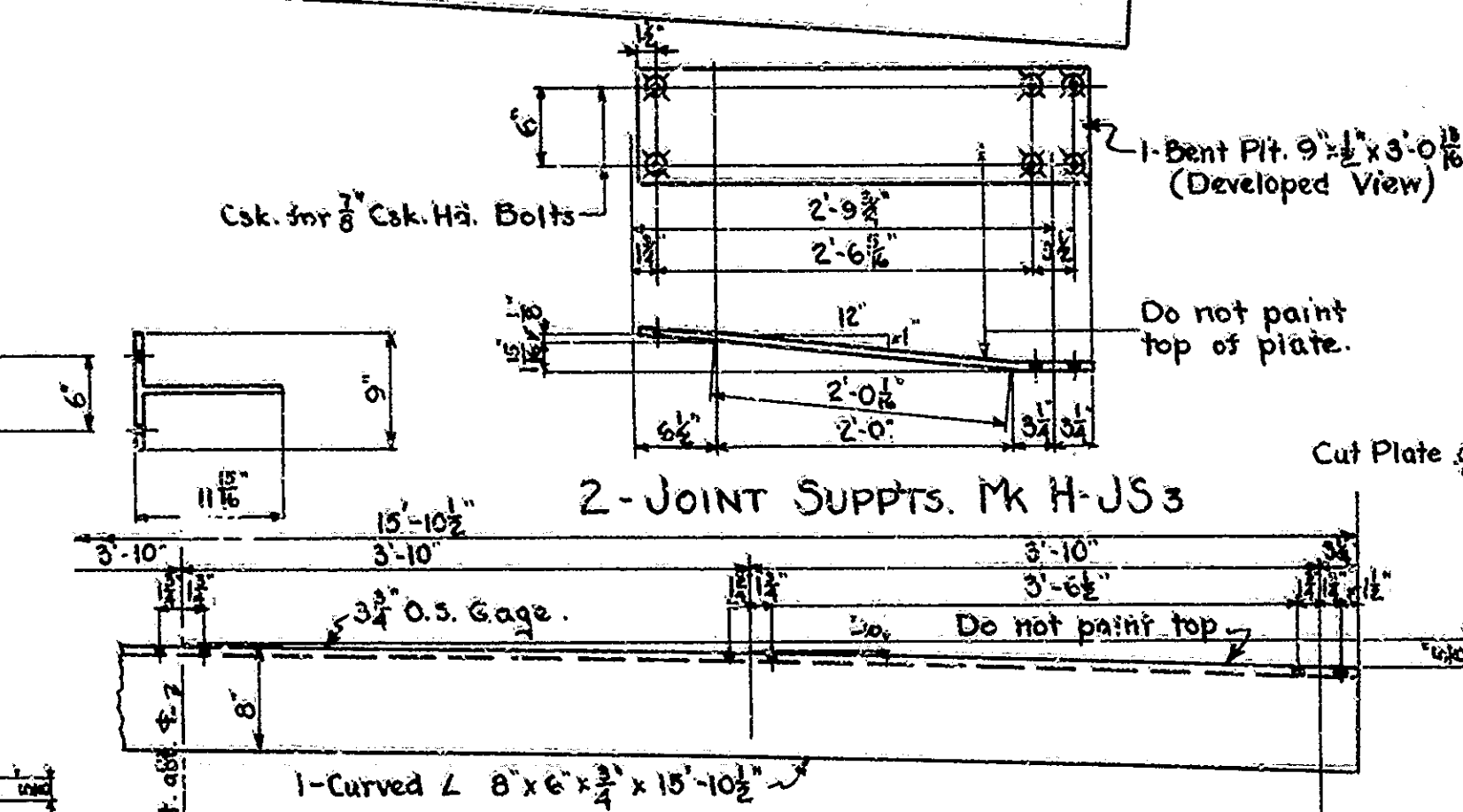
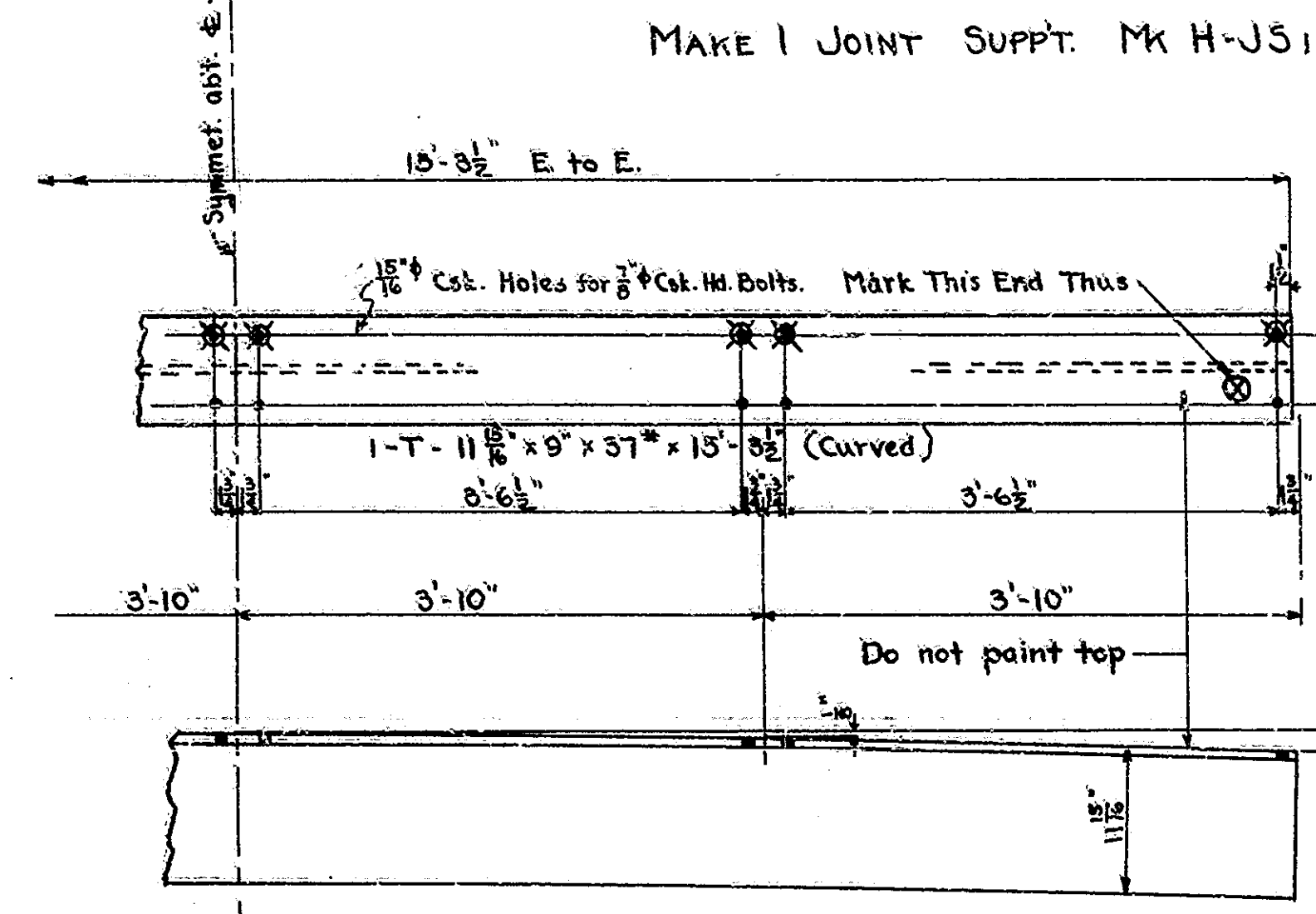
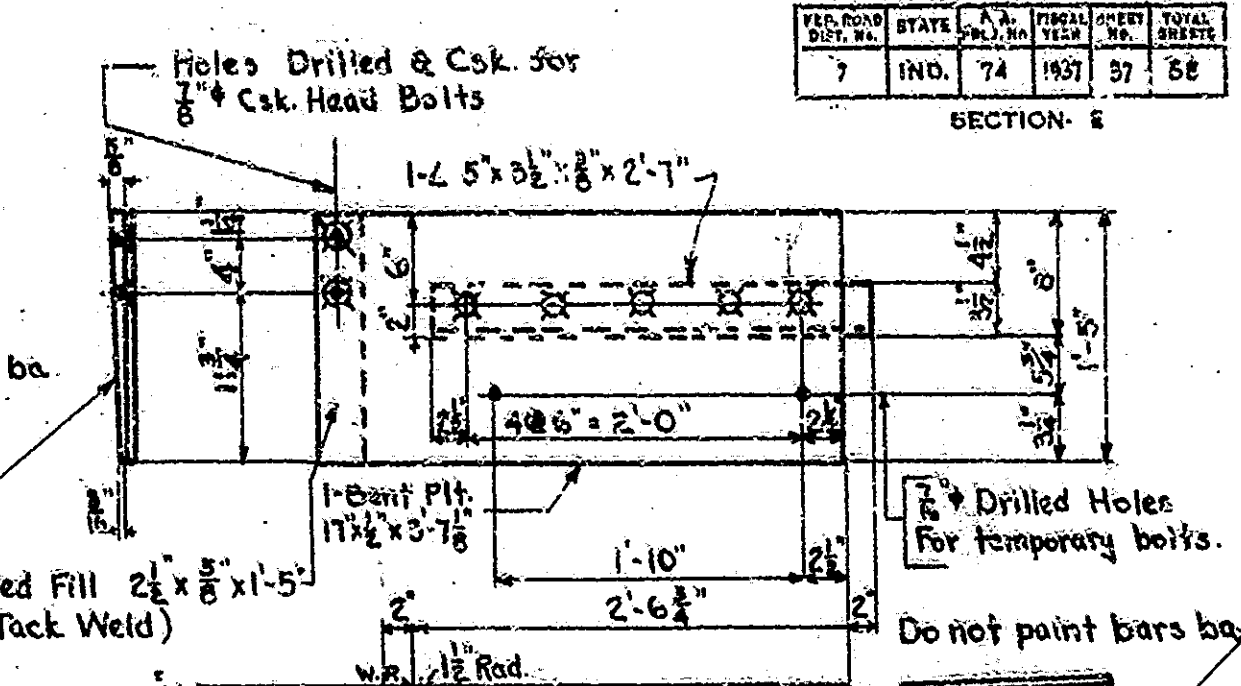
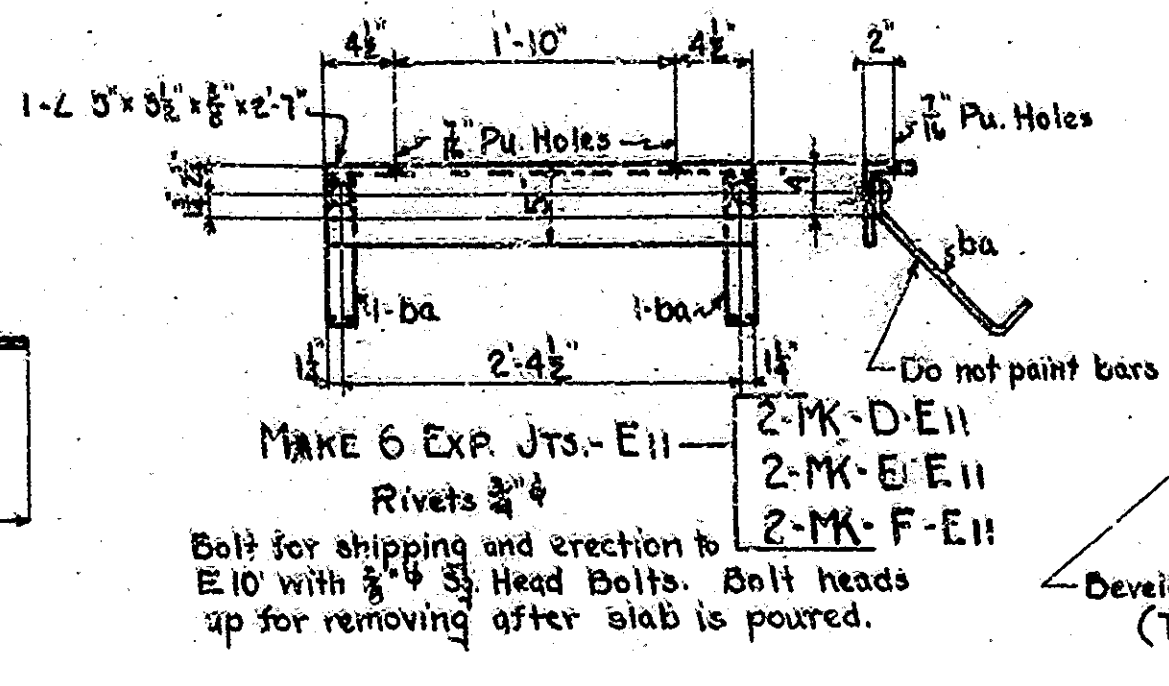
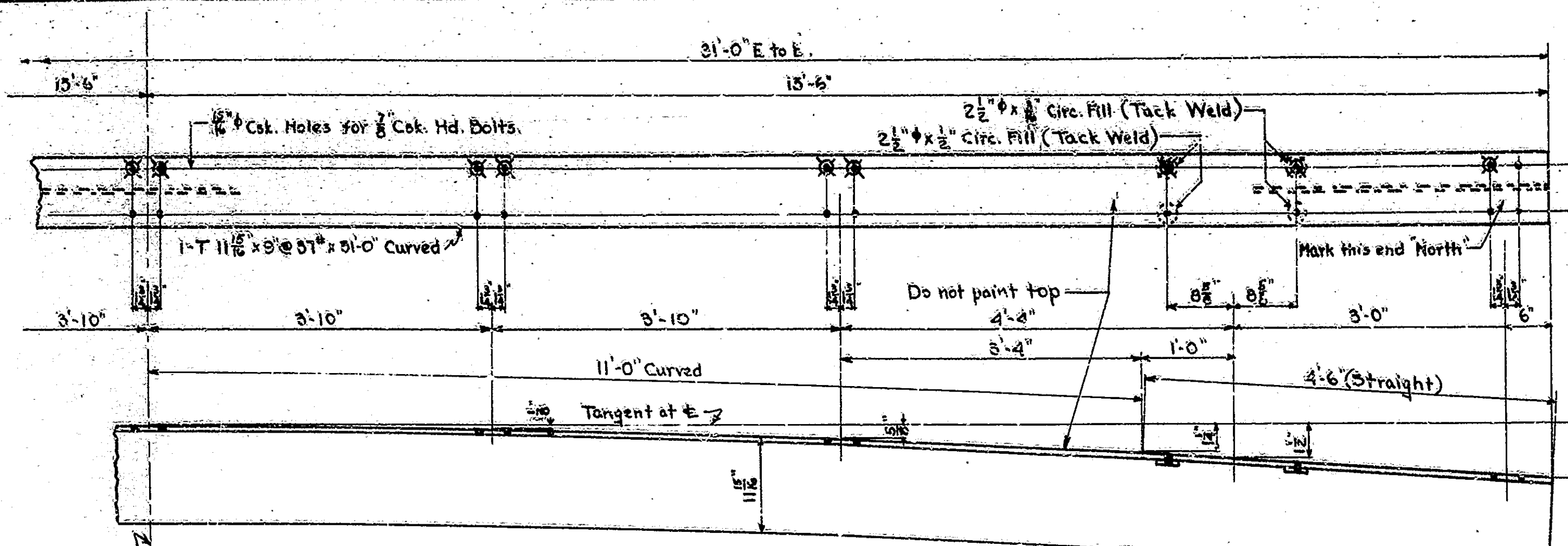
SECTION: E STRUCTURE NO. 1782

DRAWING: S24 OF 47 BRIDGE CONTRACT NO. 1452

REVISED: H.R.B. 4-13-36
DRAWN: H.R.B. 8-13-36
TRACED: H.R.B. 8-13-36

BRIDGE FILE: S2-P-1784

Rep. For Const. Changes - 1-26-37

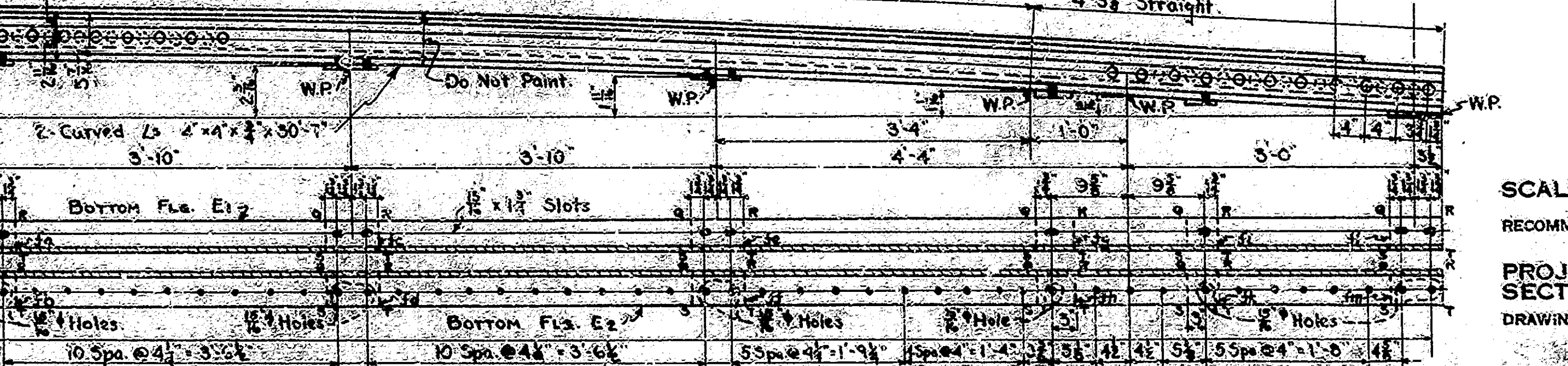
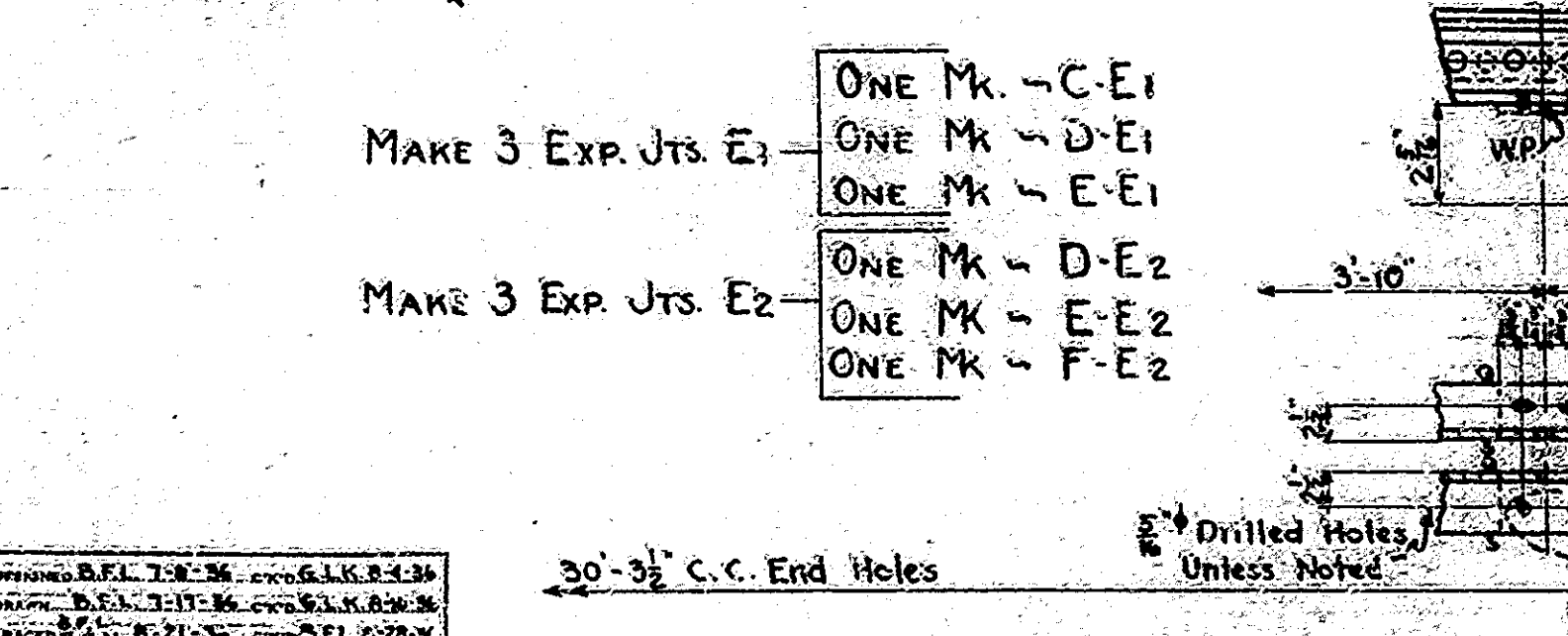


SCHEDULE OF BEVELED FILLS FOR EXP. JOINTS E1 & E2

No. Reqd.	Mark	Finished Size	Thickness At Corners			
			Q	R	S	T
3	fa	4" x 3/8" x 7"	5/8"	5/8"	1/2"	1/2"
3	fb	4" x 1/2" x 7"	1"	1"	3/4"	3/4"
6	fc	4" x 3/4" x 7"	5/8"	5/8"	1/2"	1/2"
6	fd	4" x 5/8" x 7"	5/8"	5/8"	3/8"	3/8"
6	fe	4" x 3/8" x 7"	5/8"	5/8"	3/8"	3/8"
6	ff	4" x 1/2" x 7"	5/8"	5/8"	3/8"	3/8"
6	fg	4" x 3/4" x 4 1/2"	5/8"	5/8"	3/8"	3/8"
6	fh	4" x 1" x 4 1/2"	5/8"	5/8"	3/8"	3/8"
6	fi	4" x 1 1/4" x 4 1/2"	5/8"	5/8"	3/8"	3/8"
6	fk	4" x 3/8" x 4 1/2"	5/8"	5/8"	3/8"	3/8"
6	fl	4" x 1/2" x 7"	5/8"	5/8"	3/8"	3/8"
6	fm	4" x 3/8" x 7"	5/8"	5/8"	3/8"	3/8"

NOTE: Ship Fills fa, fb, fc, fd, fe, fg, fh, fi, fj, fl, Tack Welded to E1 as shown. Ship Fills fb, fd, ff, fh, fj, fm, Bolted to E2 & Match Marked.

NOTES:
 Rivets = 3/4"
 Holes = Punch 15/16" unless noted otherwise.
 Edge Distances = 1 1/2" unless shown otherwise.
 See Drawing 58 for typical section thru joint in place, showing flashing and gutter.



EXPANSION JOINT DETAILS
 STATE HIGHWAY COMMISSION OF INDIANA

SCALE: NONE
 OCTOBER 20, 1936

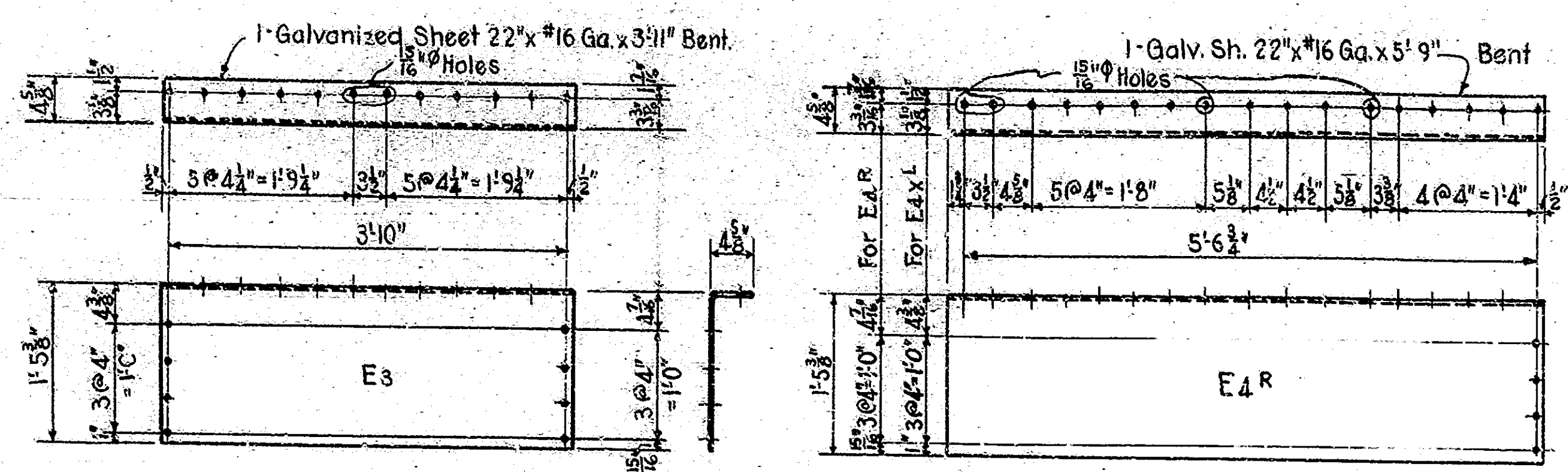
RECOMMENDED FOR APPROVAL: _____

PROJECT: F.A. 74 STATION: 106+46.37
 SECTION: E STRUCTURE NO. 178A

DRAWING: 555 OF 47 BRIDGE CONTRACT NO. 1454

BRIDGES OVER 20' SPAN					
FED. ROAD DIST. NO.	STATE	S.A. PROJ. NO.	SHEET NO.	TOTAL SHEETS	DATE
7	IND.	74	1931	38	35

SECTION - E



MAKE 15 FLASHINGS E3

- 5-MK-D-E3
- 5-MK-E-E3
- 5-MK-F-E3

ALL HOLES - $\frac{5}{16}$ " UNLESS NOTED.

MAKE 3 FLASHINGS E4R (AS SHOWN)

- ONE MK-D-E4R
- ONE MK-E-E4R
- ONE MK-F-E4R

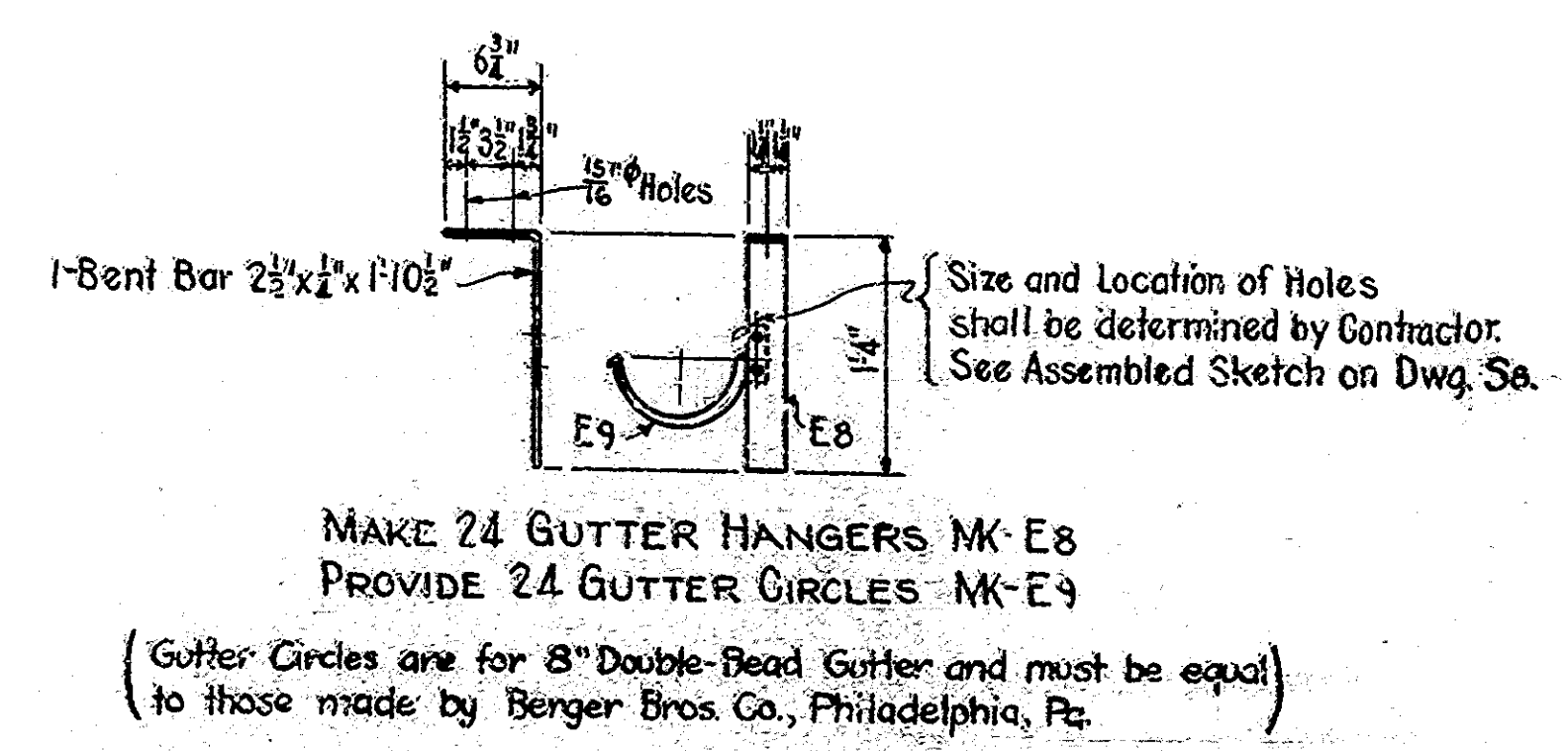
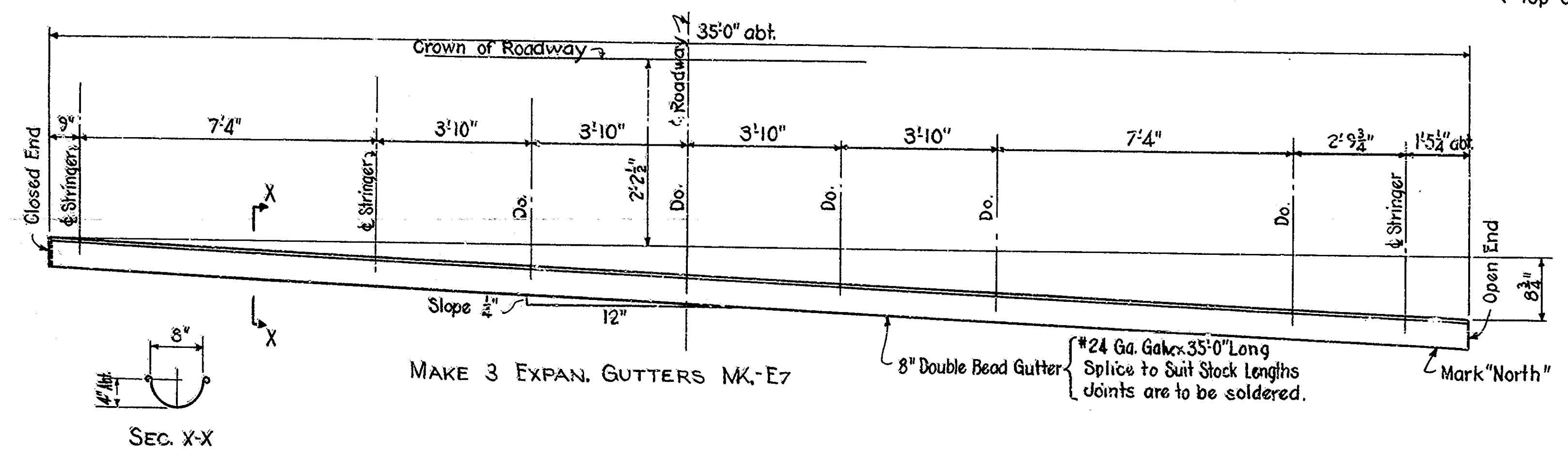
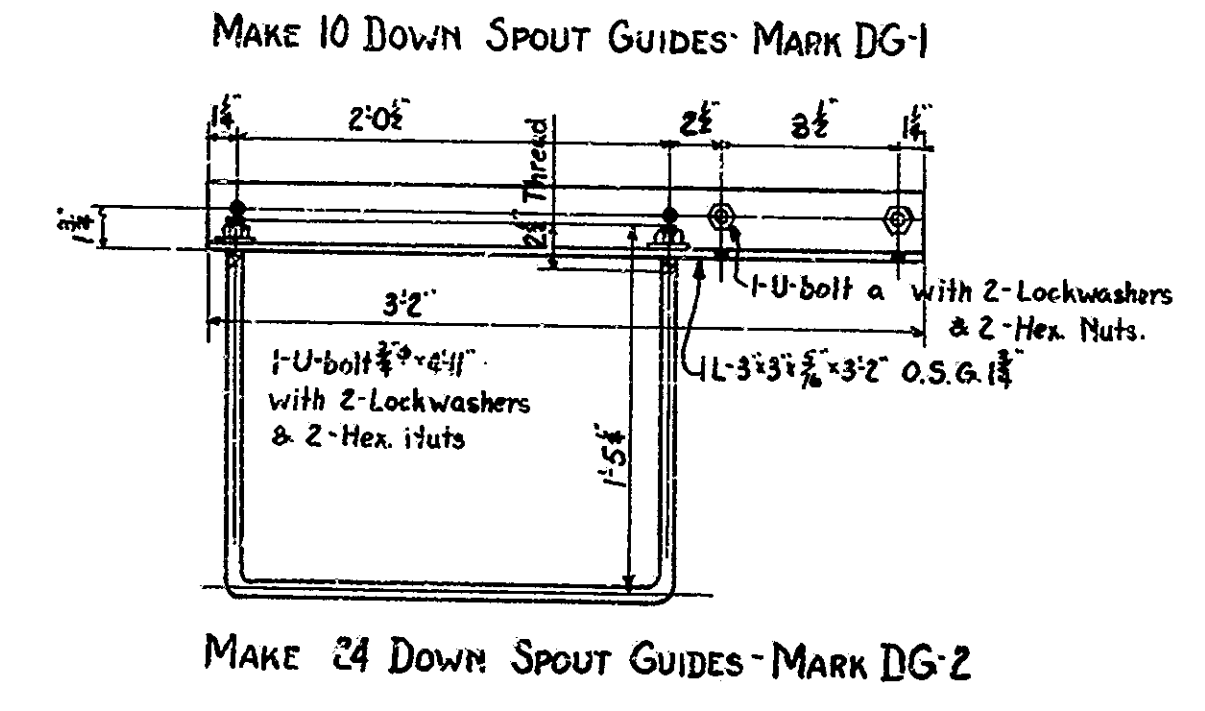
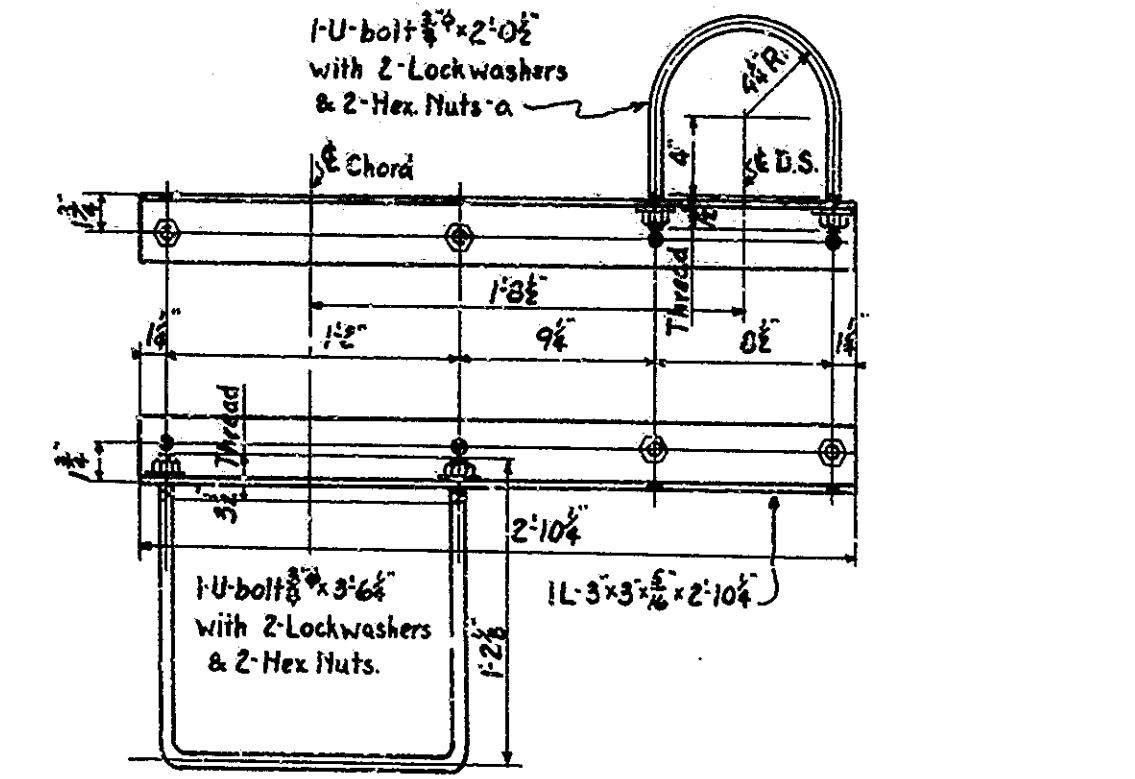
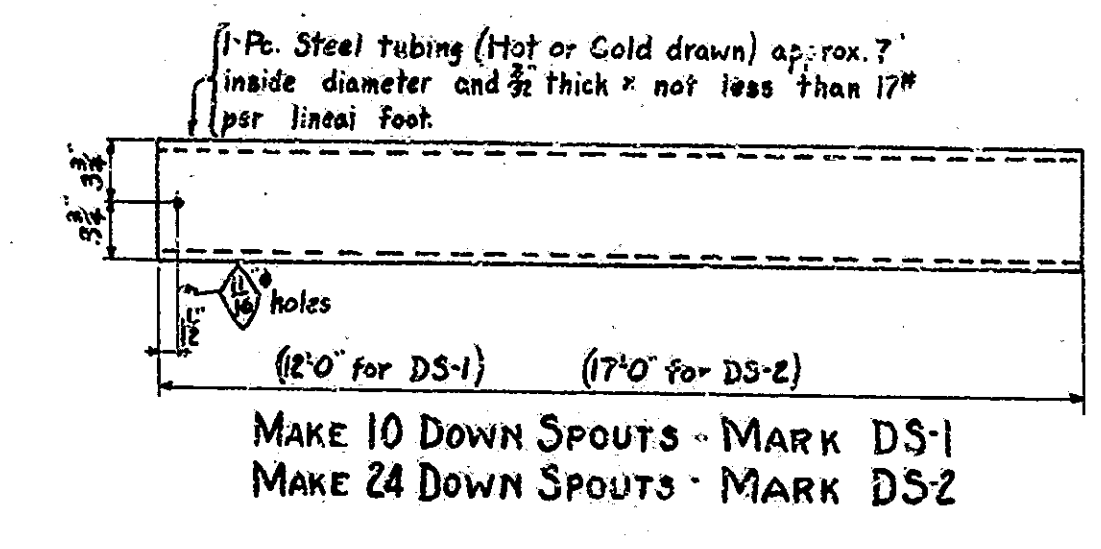
MAKE 3 FLASHINGS E4XL (OPP. HAND)

- ONE MK-D-E4XL
- ONE MK-E-E4XL
- ONE MK-F-E4XL

ALL HOLES $\frac{5}{16}$ " UNLESS NOTED

MAKE 50 SHIMS MK-E5
(for adjustment under Exp. Jts. E1 & E2)

MAKE 25 SHIMS MK-E6
(for adjustment under Exp. Jts. E1 & E2 on top of Truss Chords.)



NOTE:
Holes $\frac{5}{16}$ " unless noted
See Drawing 58 for typical section thru joint in place, showing flashing and gutter.

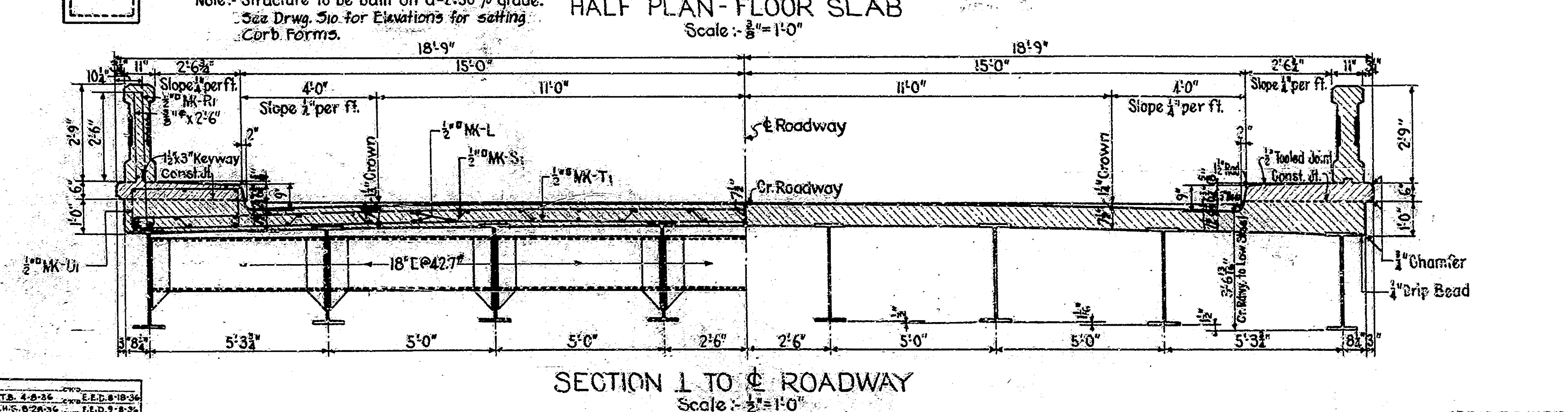
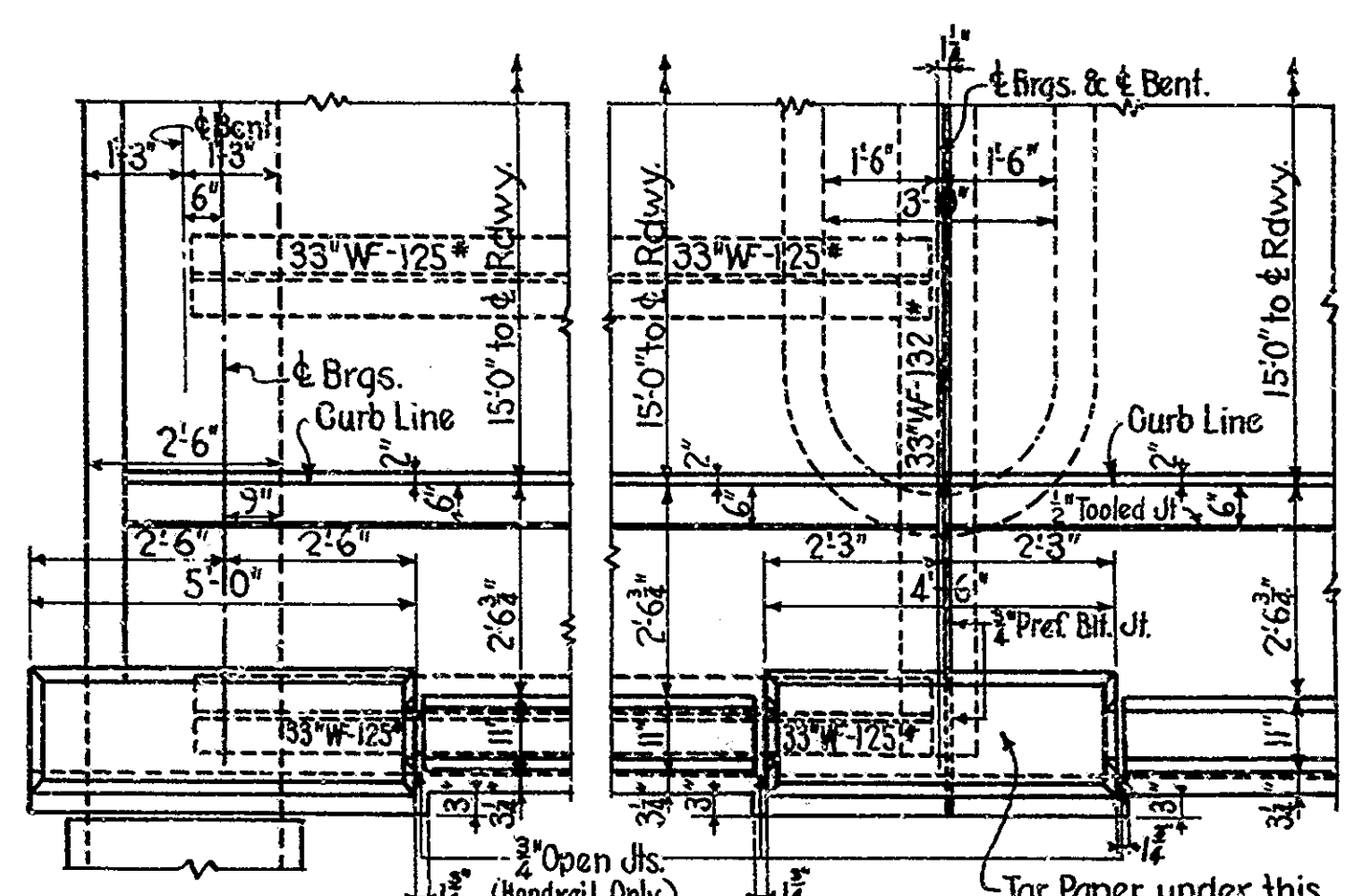
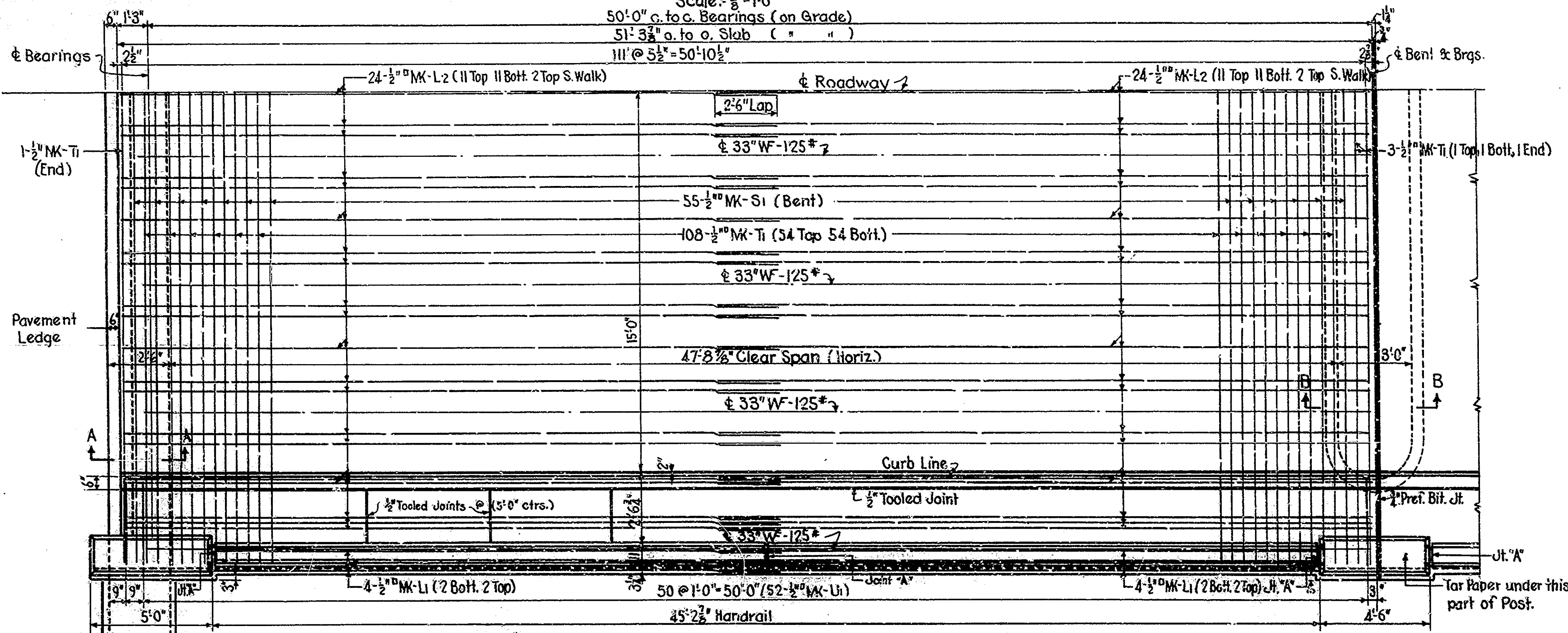
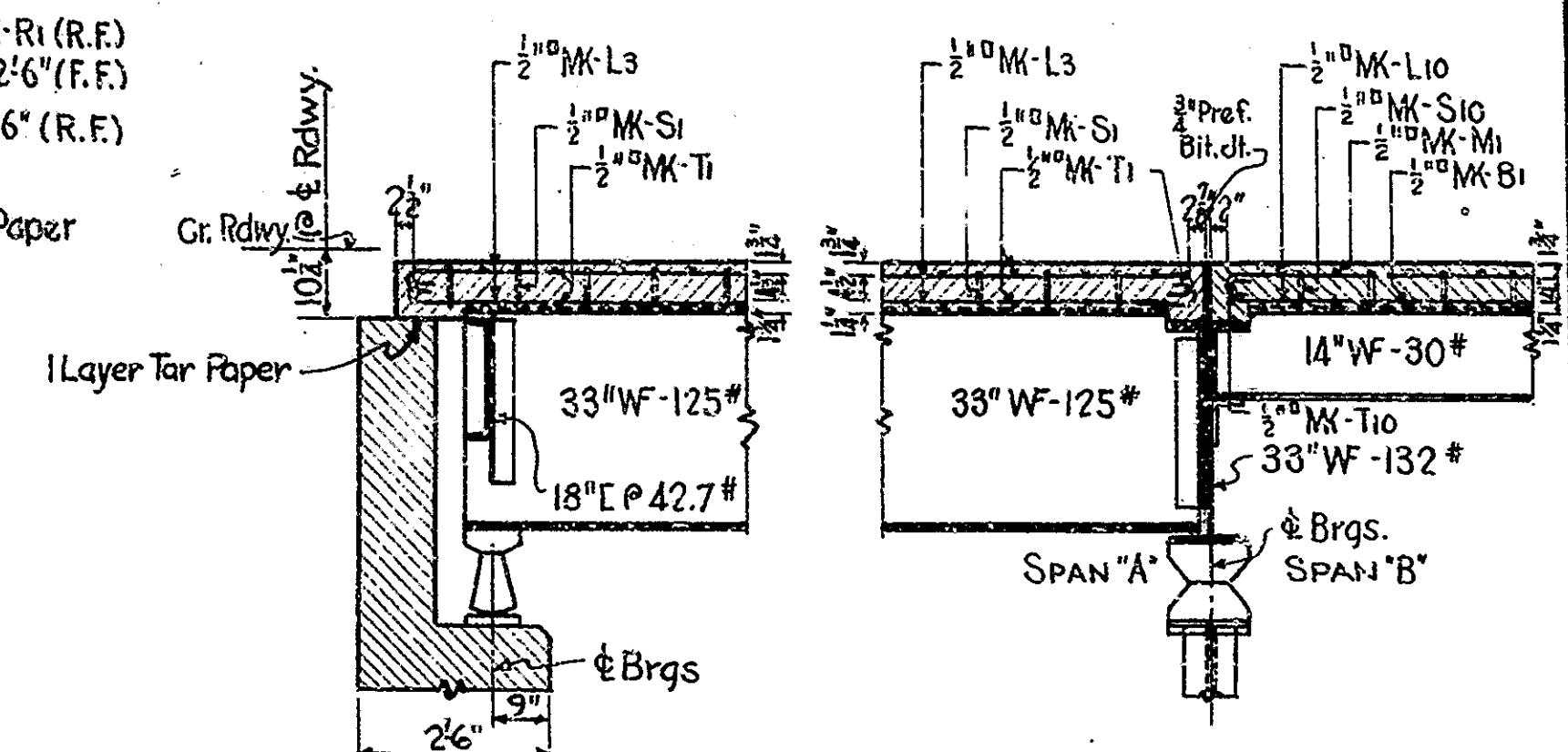
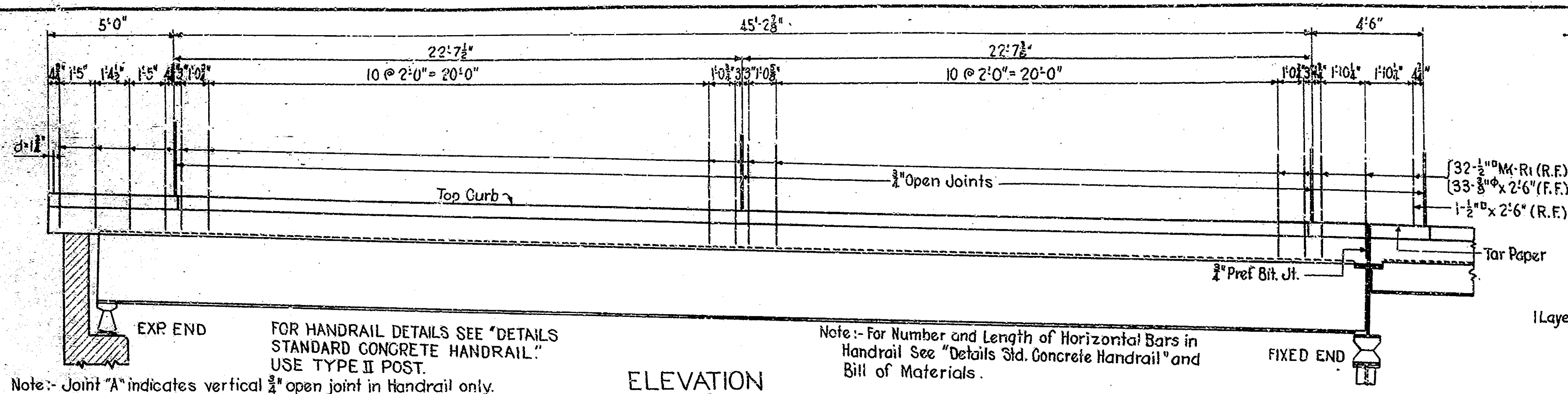
EXPANSION JOINT FLASHINGS AND GUTTERS
STATE HIGHWAY COMMISSION OF INDIANA

SCALE - NONE
RECOMMENDED FOR APPROVAL: [Signature]
PROJECT - FA 74 STATION - 106+46.47
SECTION - E STRUCTURE NO. 1784
DRAWING - S38 OF 47
BRIDGE CONTRACT NO. 1454

DESIGNED BY: JAMES T. DODD	CHECKED BY: A. L. B. 10-26
DRAWN BY: JAMES T. DODD	CHECKED BY: A. L. B. 10-26
TRACED BY: JAMES T. DODD	CHECKED BY: A. L. B. 10-26

BRIDGES OVER 20' SPAN					
FED. ROAD DIST. NO.	STATE	R. & C. ROAD NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	IND.	74	1937	39	58

SECTION - E

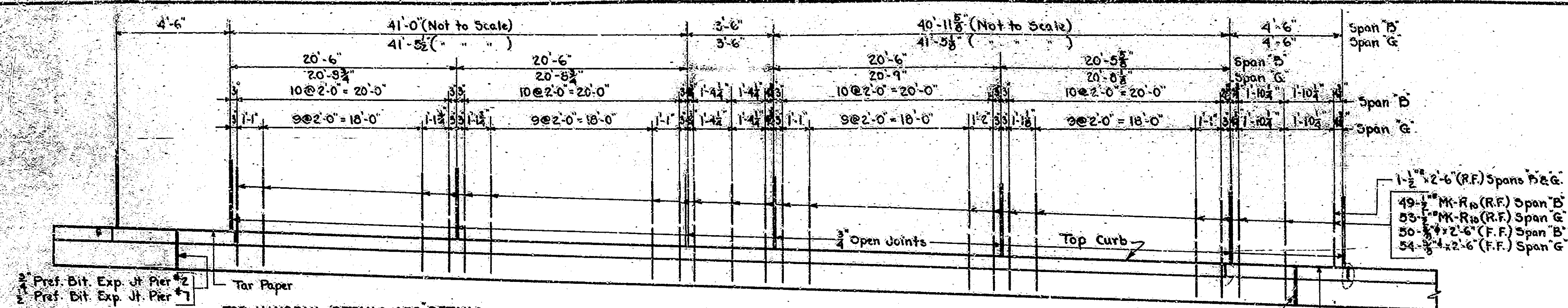


SPAN "A" SLAB AND HANDRAIL DETAILS
STATE HIGHWAY COMMISSION OF INDIANA

SCALE: AS NOTED
RECOMMENDED FOR APPROVAL: *[Signature]*
OCTOBER 20, 1936
PROJECT: P.A. 74 ST. ION: 106+46.47
SECTION: E STRUCTURE NO. 1784
DRAWING: 597 OF 47
BRIDGE CONTRACT NO. 1454

BRIDGES OVER 20' SPAN				
FED. ROAD DIST. NO.	STATE	F. & T. PROJECT NO.	YEAR	TOTAL SHEETS
7	IND.	14	1935	40 58

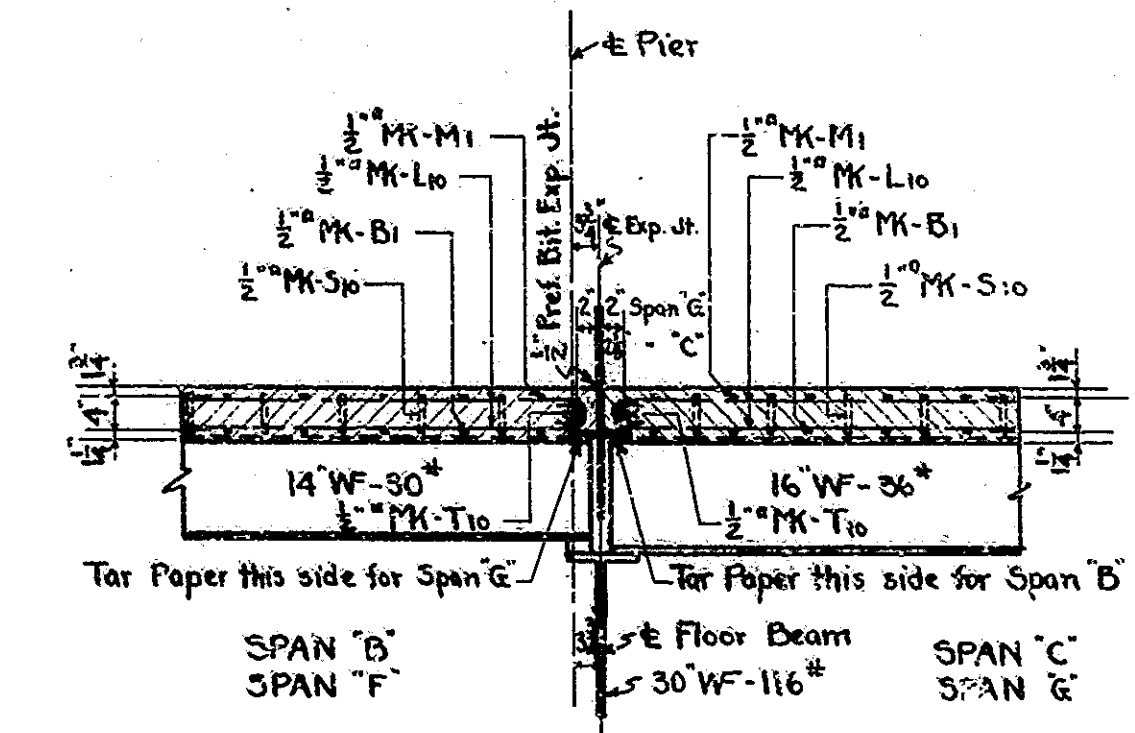
SECTION - E



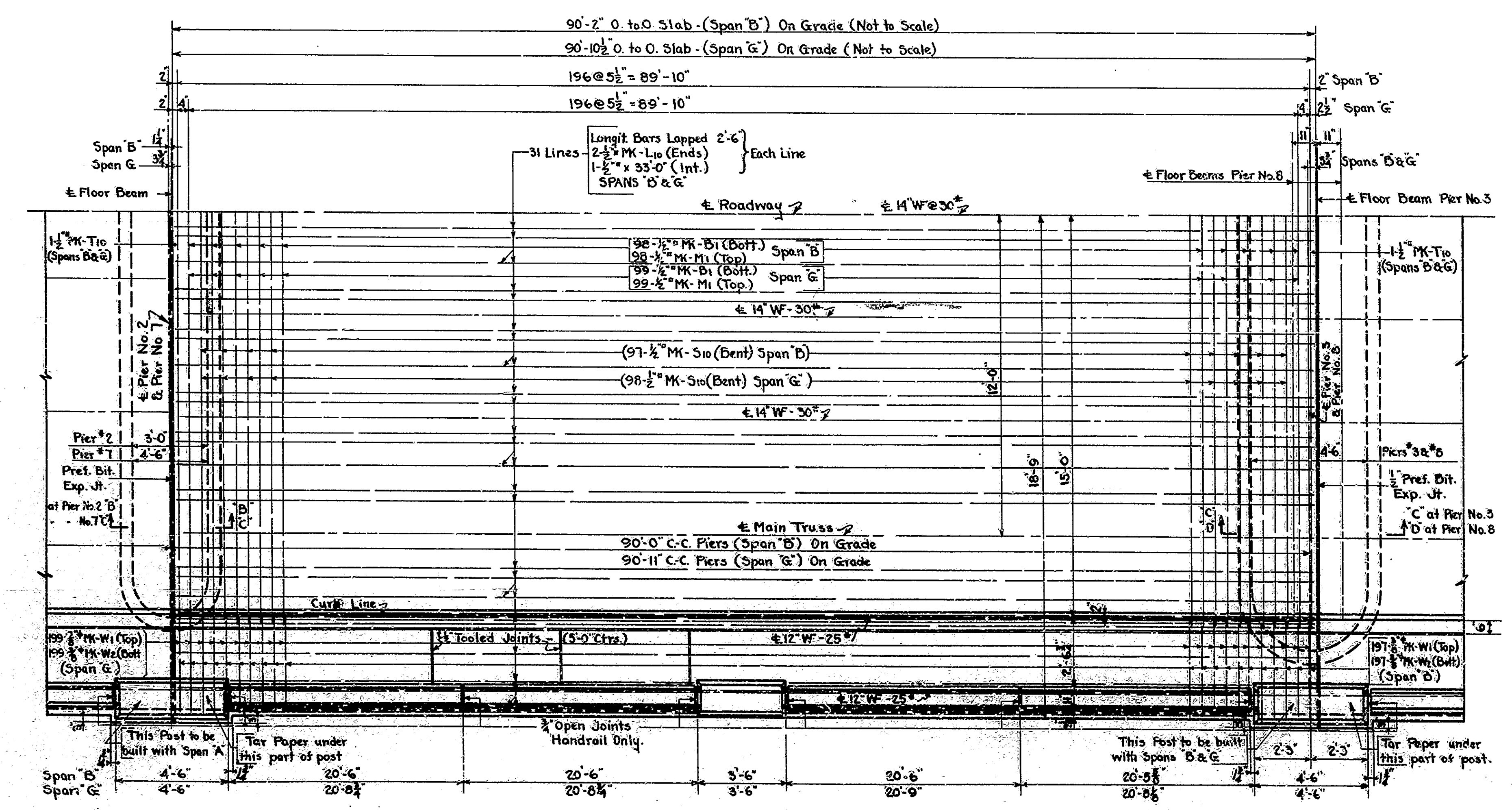
FOR HANDRAIL DETAILS SEE DETAILS STANDARD CONCRETE HANDRAIL. USE TYPE I POST FOR 3'-6" POSTS. USE TYPE II POST FOR ALL OTHERS.

NOTE: For Number and Length of Horizontal Bars in Handrail See Details Std. Concrete Handrail and Bill of Materials.

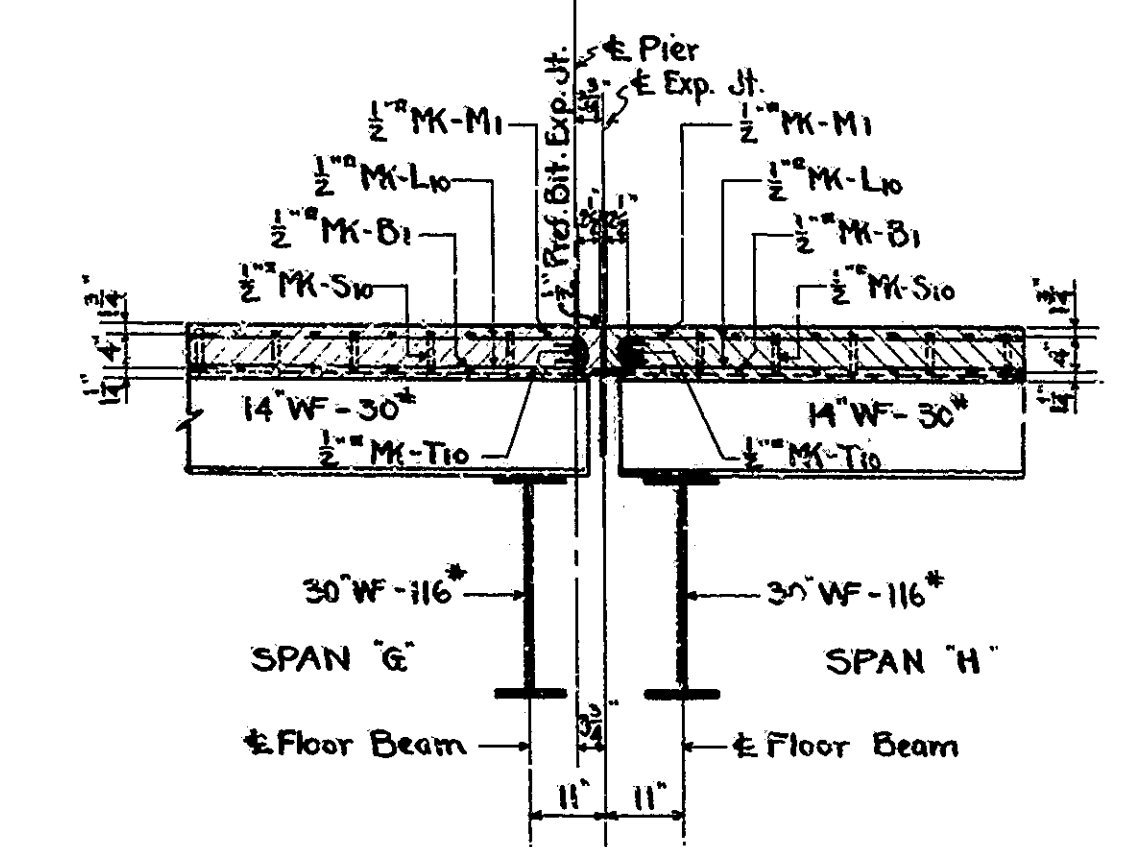
ELEVATION
Scale: 3/8" = 1'-0"



SECTION C-C
Scale: 1/2" = 1'-0"



HALF PLAN - FLOOR SLAB - SPAN B
SPAN G SAME (EXCEPT AS NOTED)
Scale: 3/8" = 1'-0"



SECTION D-D
Scale: 1/2" = 1'-0"

FOR SECTION B-B SEE DRAWING S37

SPANS B & G SLAB AND HANDRAIL DETAILS
STATE HIGHWAY COMMISSION OF INDIANA

SCALE: AS NOTED
RECOMMENDED FOR APPROVAL: *[Signature]*
PROJECT: F.A. 74
SECTION: E
DRAWING: S38 OF 47
BRIDGE CONTRACT NO. 1454
OCTOBER 30, 1935
STATION: 106+45.47
STRUCTURE NO. 1784

DRAWN: J.J.S. 12/1/36
CHECKED: R.D.B. 2/1/36

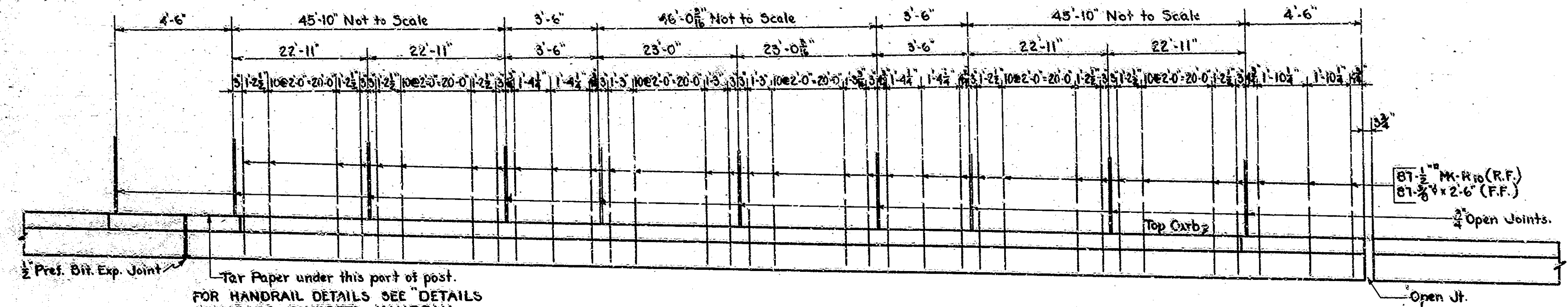
BRIDGE FILE: S2-P1784

Chd. For Const. Changes - P. 20/33
Chd. For Const. Changes

ELD 4-836

BRIDGES OVER 20' SPAN					
FED. ROAD DIST. NO.	STATE	A.A. PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
7	IND.	24	1937	41	58

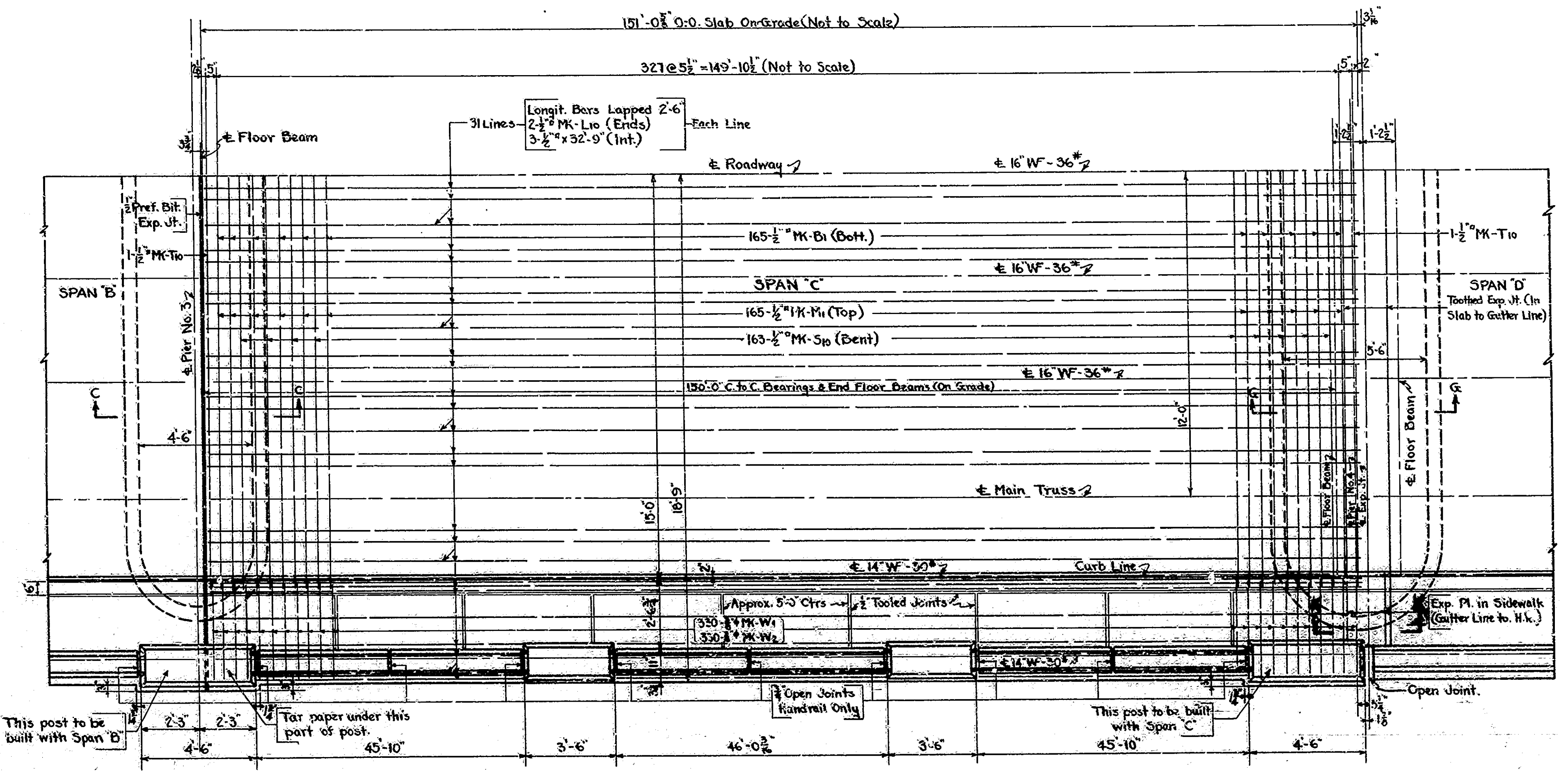
SECTION - E



Tar Paper under this part of post.
 FOR HANDRAIL DETAILS SEE "DETAILS STANDARD CONCRETE HANDRAIL. USE TYPE I POST FOR 3'-6" POSTS. USE TYPE II POST FOR ALL OTHER POSTS.

NOTE: For Number and Length of Horizontal Bars in Handrail See "Details Std. Concrete Handrail & Bill of Materials.

ELEVATION
 Scale: 3/8" = 1'-0"



FOR SECTION C-C SEE DRAWING S38
 FOR SECTION G-G SEE DRAWING S40
 FOR SECTION K-K SEE DRAWING S40

HALF PLAN - FLOOR SLAB
 Scale: 3/8" = 1'-0"

SPAN 'C' SLAB AND HANDRAIL DETAILS
 STATE HIGHWAY COMMISSION OF INDIANA

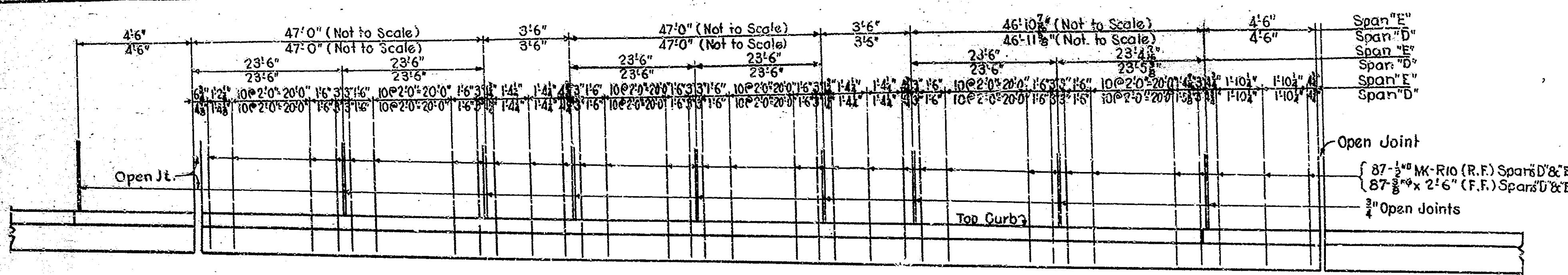
SCALE: AS NOTED
 RECOMMENDED FOR APPROVAL: *[Signature]*
 PROJECT: F.A. 74 STATION: 106+46.47
 SECTION: E STRUCTURE NO. 1784
 DRAWING: 539 OF 47
 BRIDGE CONTRACT NO. 1452

BRIDGE FILE: 52-P-1784

Ed. For Const. Changes

BRIDGES OVER 20' SPAN					
FED. ROAD DIST. NO.	STATE	F.A. NO.	YEAR	SHEET NO.	TOTAL SHEETS
7	IND.	74	1937	42	98

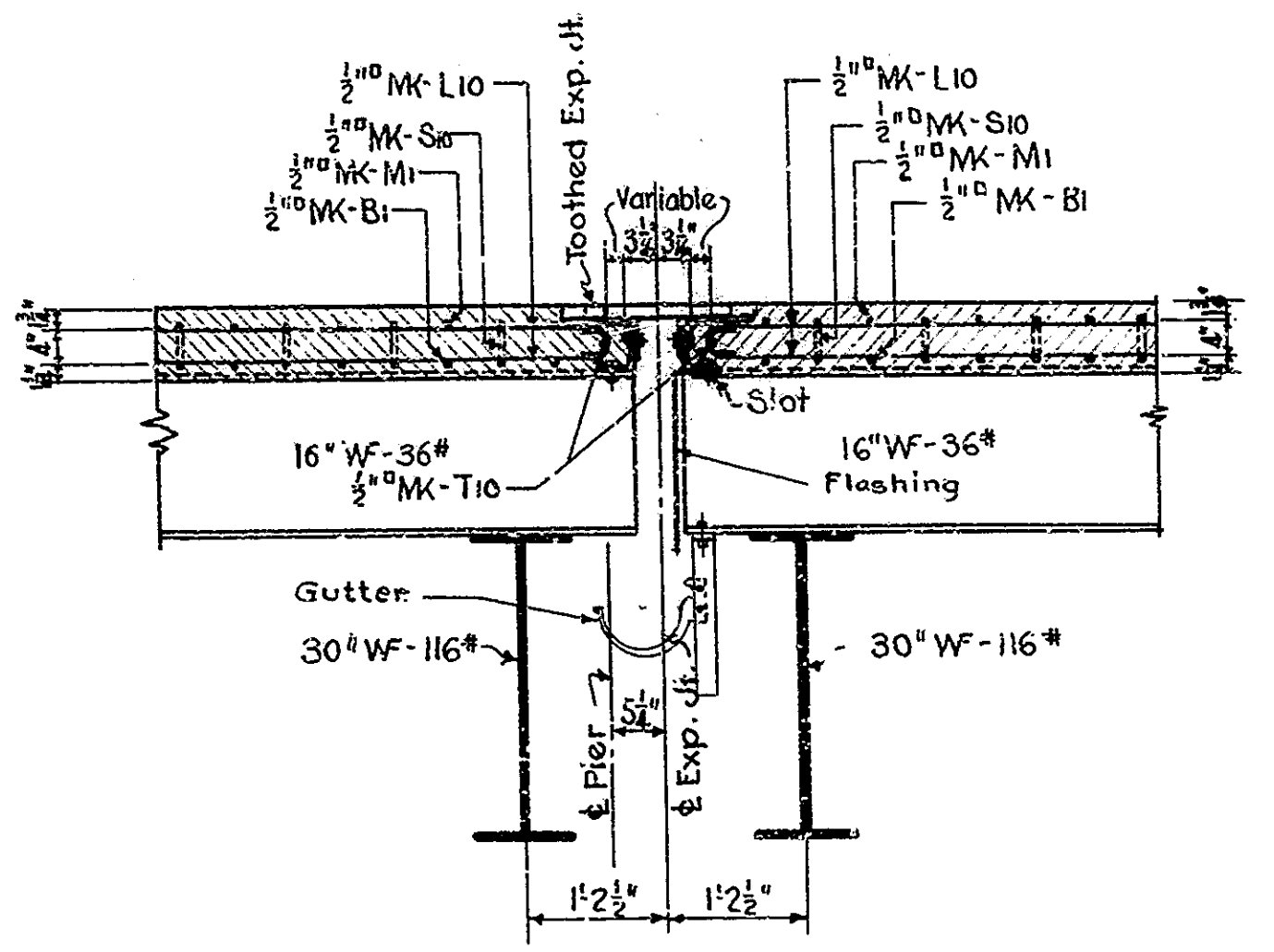
SECTION - E



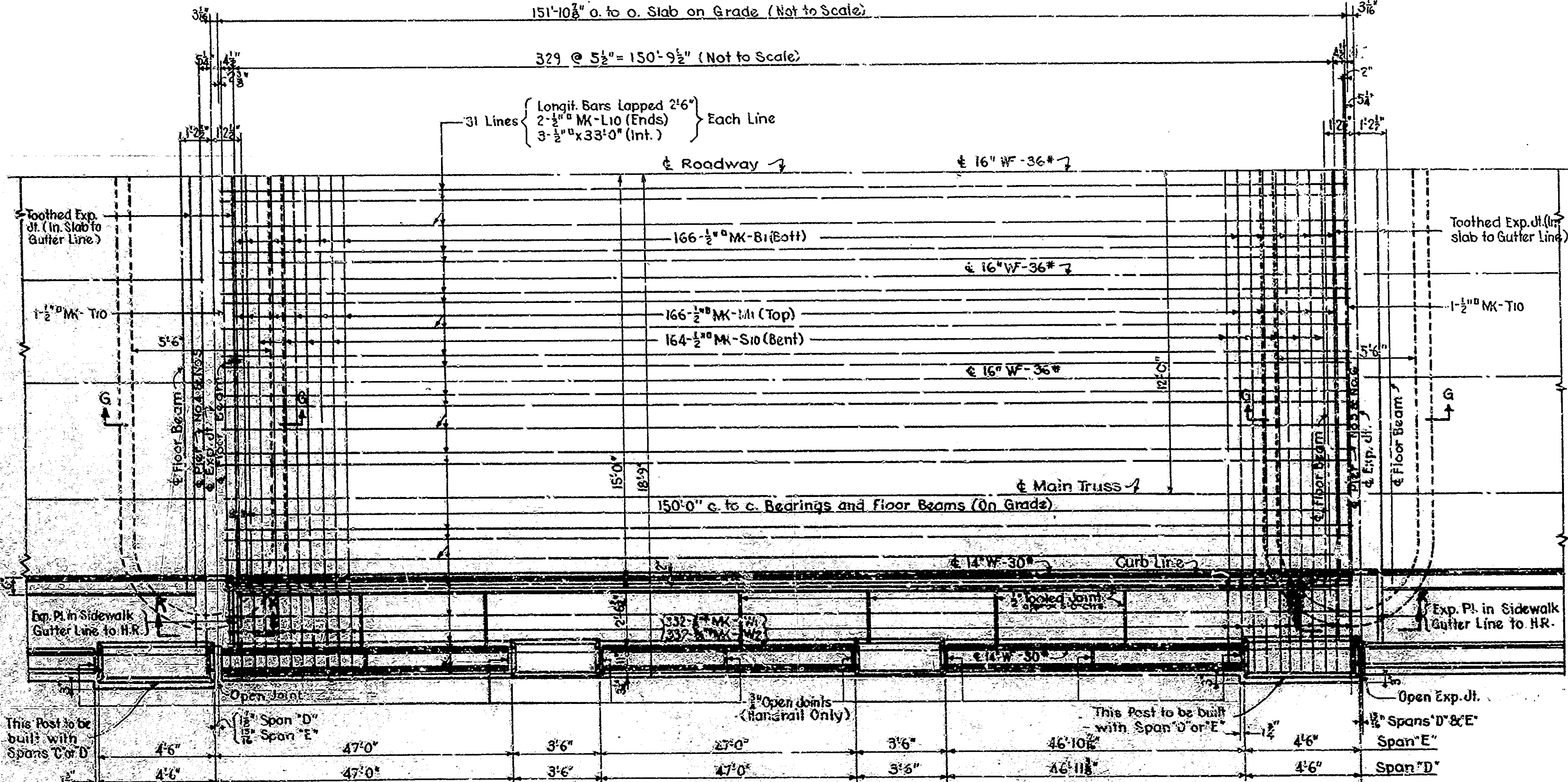
FOR HANDRAIL DETAILS SEE "DETAILS STANDARD CONCRETE HANDRAIL", USE TYPE I POST FOR 3'-6" POSTS, USE TYPE II POST FOR ALL OTHER POSTS.

NOTE: For Number and Length of Horizontal Bars in Handrail See Details "Std. Concrete Handrail" and Bill of Materials.

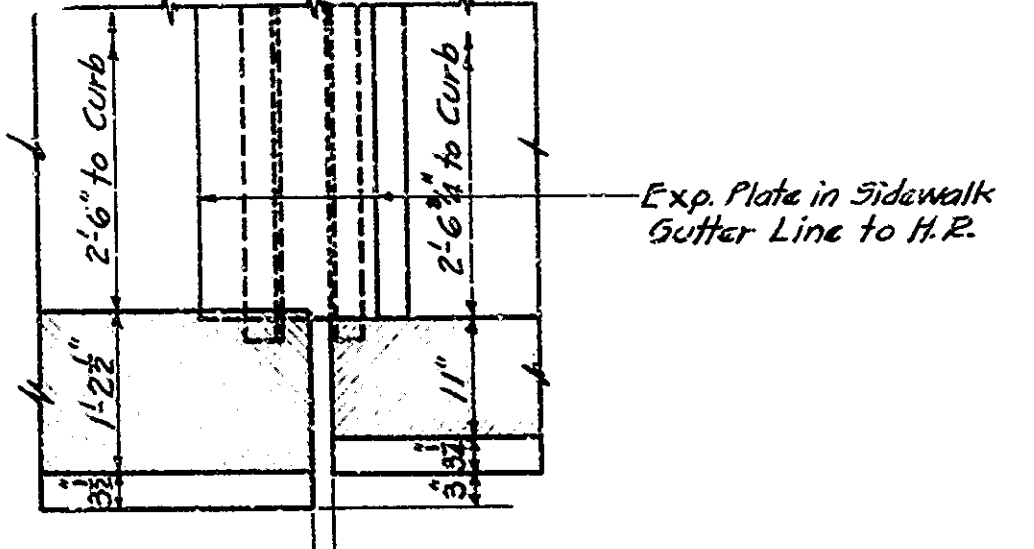
ELEVATION
Scale: 3/8" = 1'-0"



SECTION G-G
Scale: 3/4" = 1'-0"

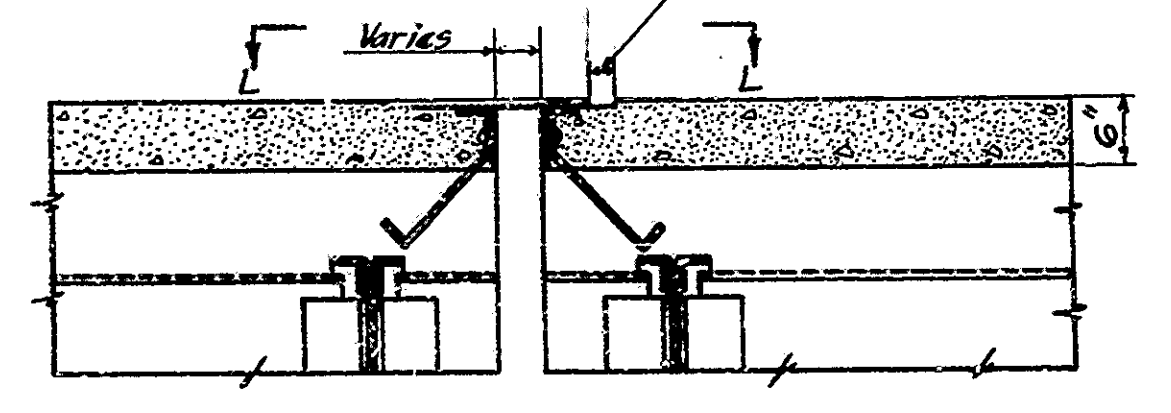


HALF PLAN FLOOR SLAB - SPAN 'D'
SPAN 'E' SAME (EXCEPT AS NOTED)
Scale: 3/8" = 1'-0"



SECTION L-L

Varies with temperature. Instructions for setting will be furnished to Contractor



SECTION K-K

TYPICAL SIDEWALK EXPANSION JOINT DETAILS
(Scale: 1/4" = 1'-0")

SPANS D & E SLAB AND HANDRAIL DETAILS
STATE HIGHWAY COMMISSION OF INDIANA

SCALE: AS NOTED

RECOMMENDED FOR APPROVAL:

PROJECT: F.A. 74
SECTION: E
DRAWING: S-46 OF 47

STATION: 106+46.47
STRUCTURE NO. 1784

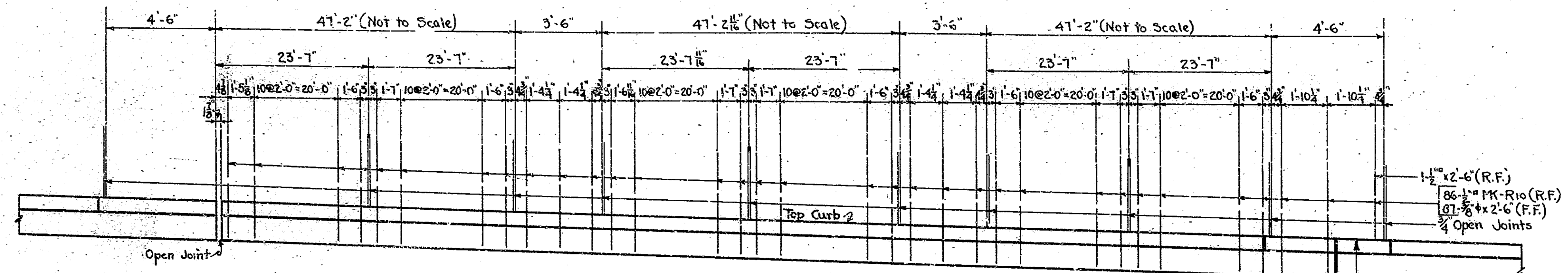
BRIDGE CONTRACT NO. 1454

OCTOBER 20, 1936

[Signature]

BRIDGES OVER 20' SPAN					
FED. ROAD DIST. NO.	STATE	F.A. PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
7	IND.	74	1937	43	58

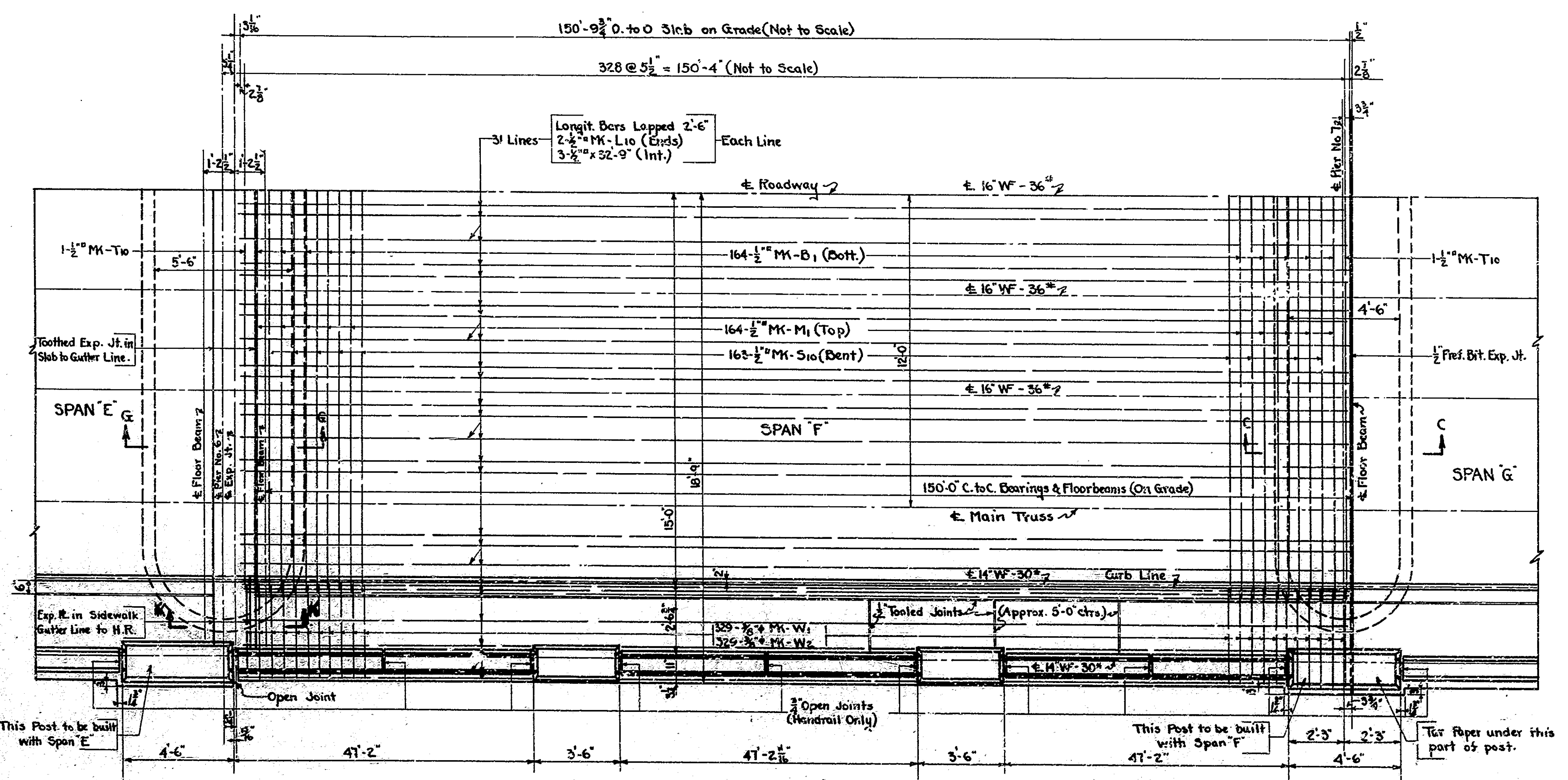
SECTION - E



FOR HANDRAIL DETAILS SEE "DETAILS STANDARD CONCRETE HANDRAIL".
USE TYPE I POST FOR 3'-6" POSTS.
USE TYPE II POST FOR ALL OTHER POSTS.

NOTE: For Number and Length of Horizontal Bars in Handrail See "Details Standard Concrete Handrail" and Bill of Materials.

ELEVATION
Scale: 1/8" = 1'-0"



HALF PLAN - FLOOR SLAB
Scale: 1/8" = 1'-0"

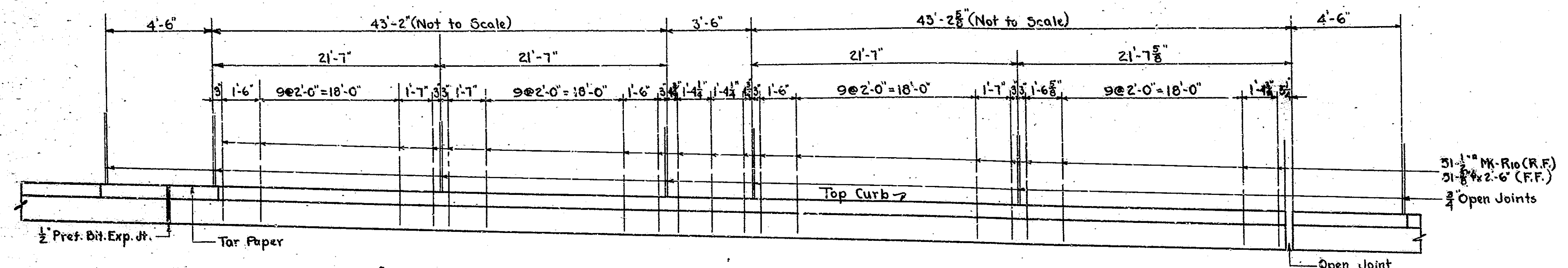
For Section C-C, See Drwg. S38
For Section G-G, See Drwg. S40
For Section K-K, See Drwg. S40

SPAN "F" SLAB & HANDRAIL DETAILS
STATE HIGHWAY COMMISSION OF INDIANA

SCALE: AS NOTED
RECOMMENDED FOR APPROVAL: *[Signature]* OCTOBER 20, 1936
PROJECT: FA. 74 STATION: 106+46.47
SECTION: E STRUCTURE NO. 1784
DRAWING: S41 OF 47
BRIDGE CONTRACT NO. 1454

BRIDGES OVER 20' SPAN					
PER. ROAD DIST. NO.	STATE	S.P.	FISCAL YEAR	SQ. FT.	TOTAL COST
7	IND.	74	1937	43	55

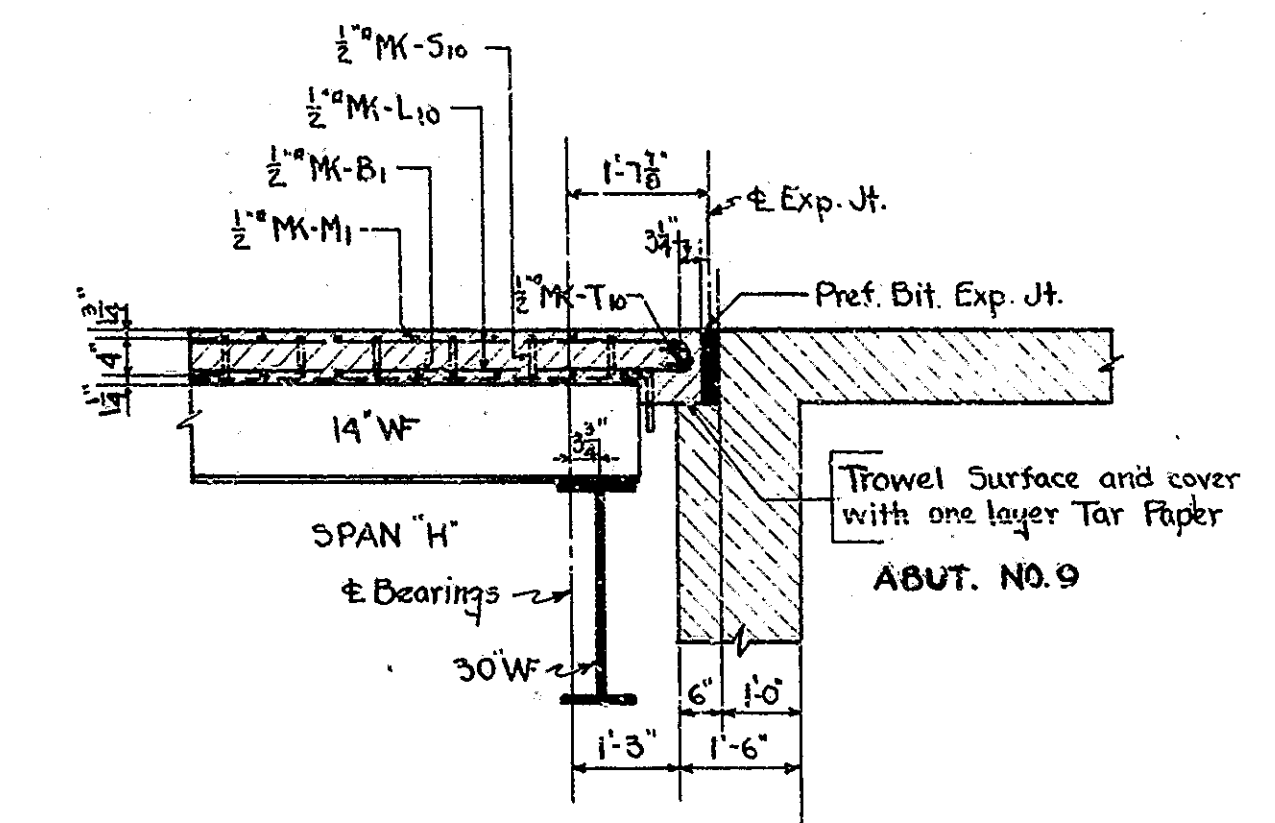
SECTION - E



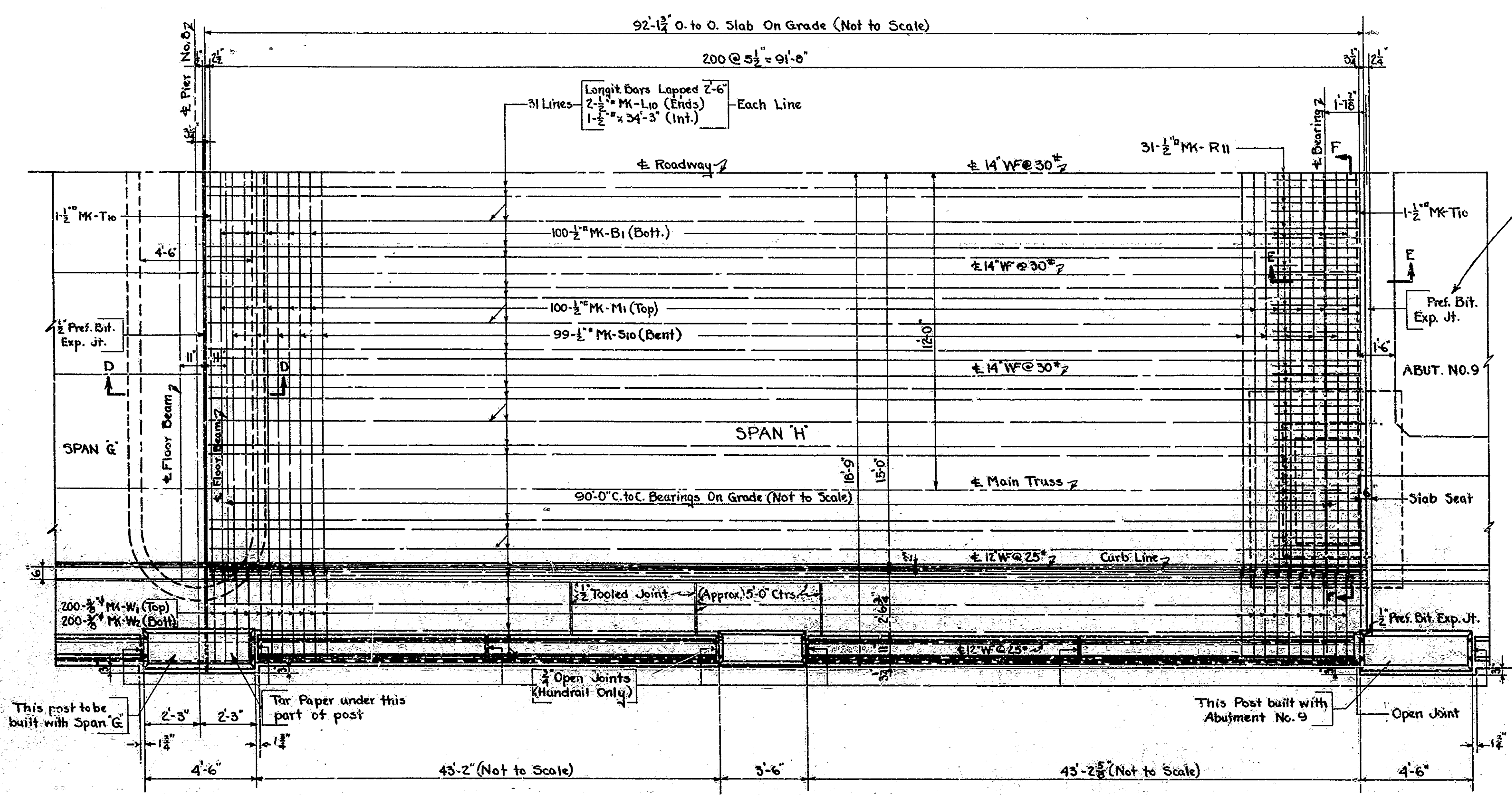
FOR HANDRAIL DETAILS SEE DETAILS STANDARD CONCRETE HANDRAIL. USE TYPE I POST FOR 3'-6" POSTS. USE TYPE II POST FOR ALL OTHER POSTS.

NOTE: For Number and Length of Horizontal Bars in Handrail, See 'Details Standard Concrete Handrail' and Bill of Materials.

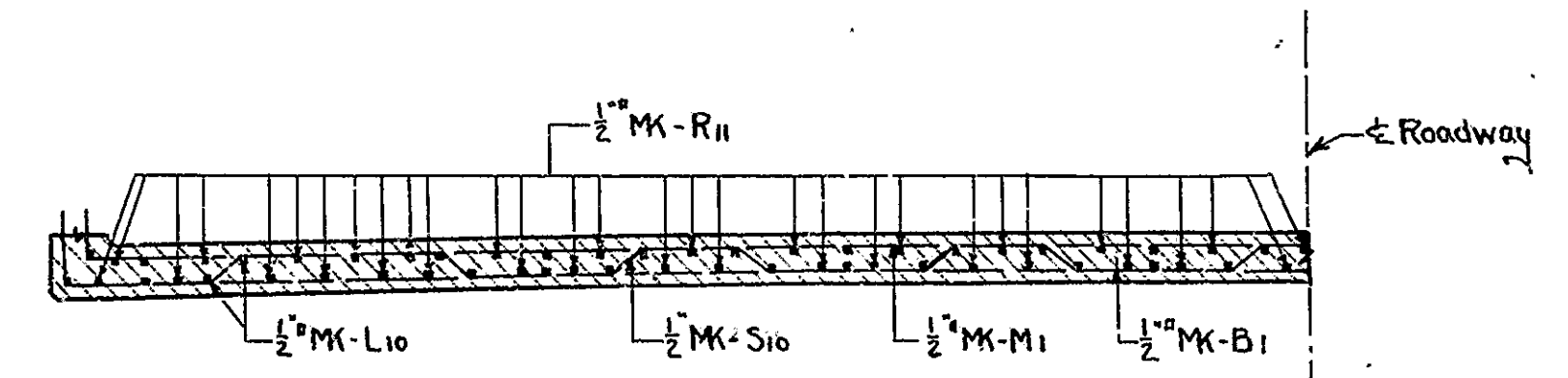
ELEVATION
Scale: 3/8" = 1'-0"



SECTION E-E
Scale: 1/2" = 1'-0"



Note: Thickness of pref. Bit. expansion Jt. depends on temperature at time of pouring slab. Information will be furnished to contractor with data for setting rockers.



HALF SECTION FLOOR SLAB F-F
(Showing Spacing of Short Bars at End of Slab)
Scale: 1/2" = 1'-0"

FOR SECTION D-D SEE DRAWING S38

HALF PLAN - FLOOR SLAB
Scale: 3/8" = 1'-0"

SPAN 'H' SLAB AND HANDRAIL DETAILS
STATE HIGHWAY COMMISSION OF INDIANA

SCALE: AS NOTED
RECOMMENDED FOR APPROVAL: *[Signature]* OCTOBER 20, 1936

PROJECT: F.A. 74 STATION: 106+46.47
SECTION: E STRUCTURE NO. 1784
DRAWING: S42 OF 47

BRIDGE CONTRACT NO. 1252

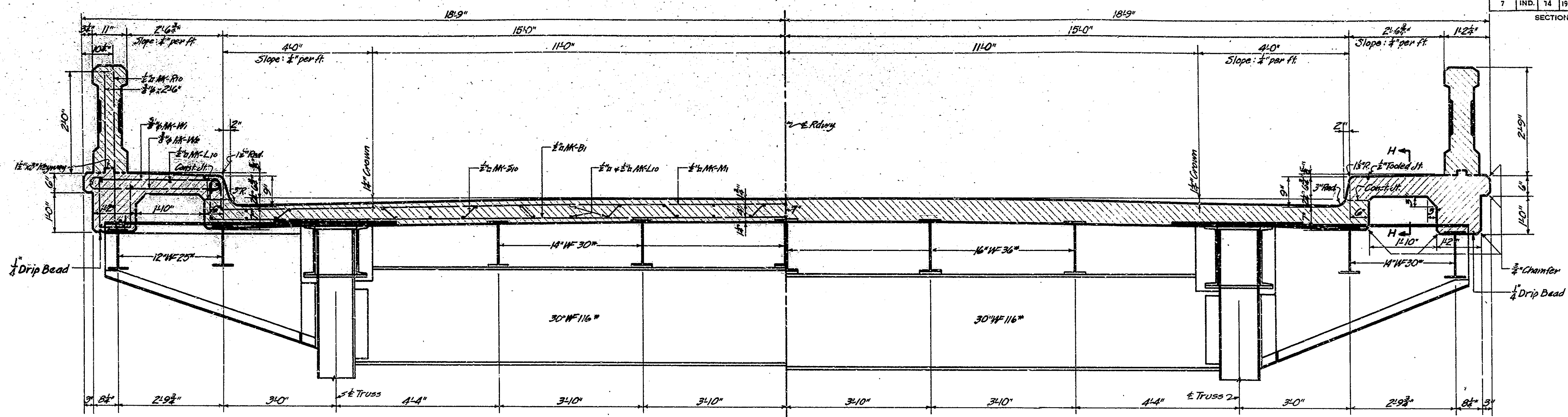
BRIDGE FILE: S2-P-1784

CKD for Const. Changes 20-35
Cld For Consty Changes

DESIGNED BY: J.C. ...
CHECKED BY: ...
DATE: ...

BRIDGES OVER 20' SPAN				
FED. ROAD DIST. NO.	STATE	S.P. NO.	PROJ. YEAR	TOTAL SHEETS
7	IND.	74	1971	58

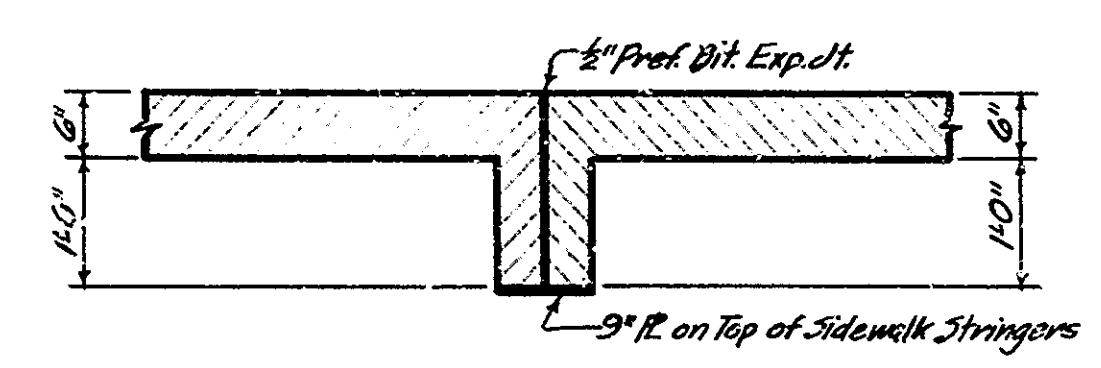
SECTION - E



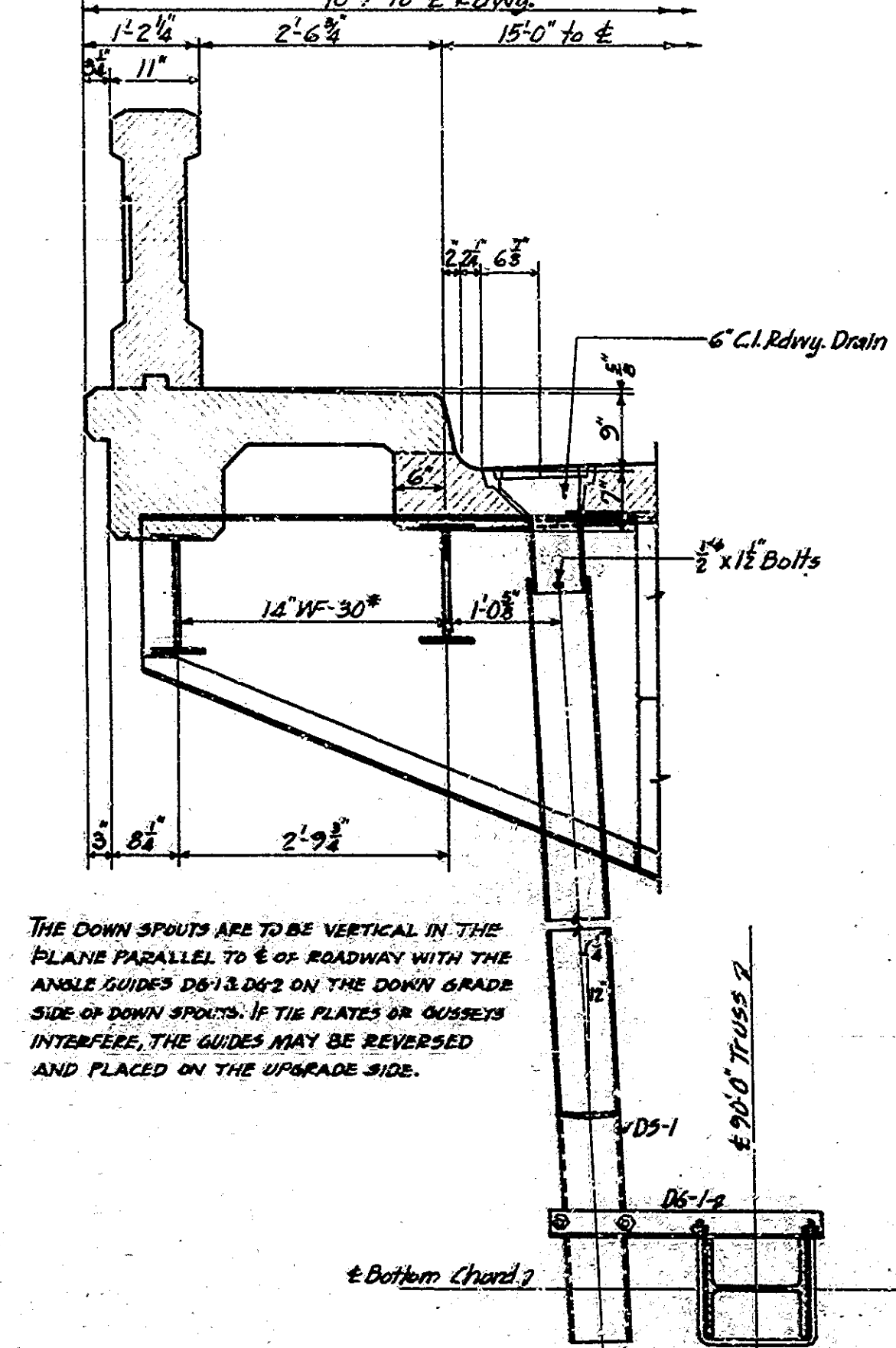
LEFT HALF SHOWING 90'-0" SPAN

RIGHT HALF SHOWING 150'-0" SPAN

SLAB SAME FOR BOTH SPANS
SECTION I TO \pm ROADWAY
(Scale: $\frac{1}{4}$ " = 1'-0")

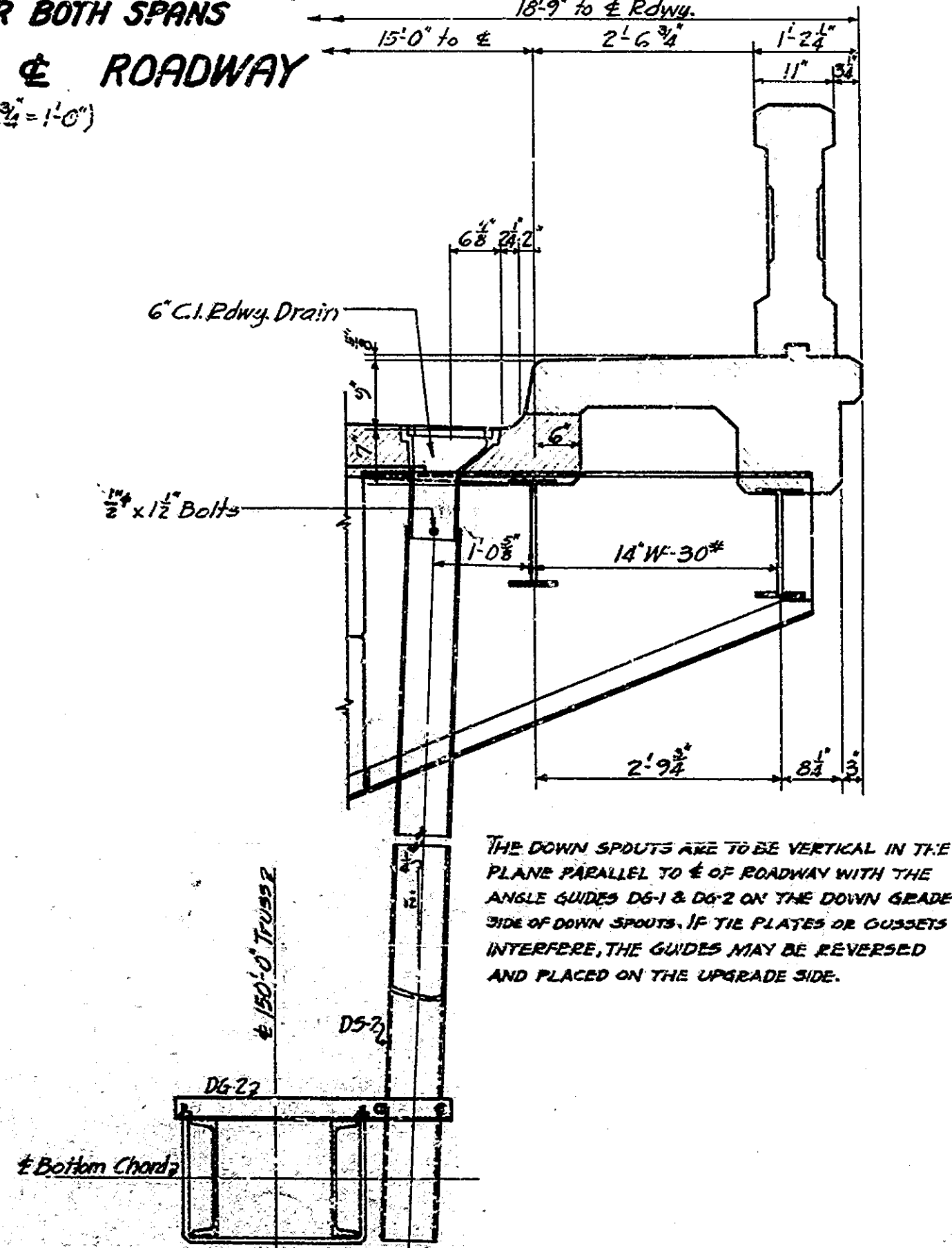


SECTION H-H (AT PIER No. 8 ONLY)
Scale: $\frac{1}{4}$ " = 1'-0"



THE DOWN SPOUTS ARE TO BE VERTICAL IN THE PLANE PARALLEL TO \pm OF ROADWAY WITH THE ANGLE GUIDES DG-1 & DG-2 ON THE DOWN GRADE SIDE OF DOWN SPOUTS. IF THE PLATES OR GUSSETS INTERFERE, THE GUIDES MAY BE REVERSED AND PLACED ON THE UPGRADE SIDE.

ROADWAY DRAIN DETAIL
SEE GENERAL PLAN FOR LOCATION
(Scale: $\frac{1}{4}$ " = 1'-0")



THE DOWN SPOUTS ARE TO BE VERTICAL IN THE PLANE PARALLEL TO \pm OF ROADWAY WITH THE ANGLE GUIDES DG-1 & DG-2 ON THE DOWN GRADE SIDE OF DOWN SPOUTS. IF THE PLATES OR GUSSETS INTERFERE, THE GUIDES MAY BE REVERSED AND PLACED ON THE UPGRADE SIDE.

ROADWAY DRAIN DETAIL
SEE GENERAL PLAN FOR LOCATION
(Scale: $\frac{1}{4}$ " = 1'-0")

SECTIONS & ROADWAY DRAIN DETAILS
STATE HIGHWAY COMMISSION OF INDIANA

SCALE: AS NOTED

RECOMMENDED FOR APPROVAL:

OCTOBER 20, 1936

PROJECT: F.A. 74
SECTION: E
DRAWING: S-43 OF 47

STATION: 106+46.47
STRUCTURE NO. 1784

BRIDGE CONTRACT NO. 1454

BRIDGE FILE: 57-P-178A

Chd. For Constr. Changes

Chd. For Constr. Changes

DESIGNED: C.R.D. S.E.D. 8-30-36
DRAWN: J.T.B. 7-22-36
CHECKED: J.T.B. 7-22-36
TRACED: J.T.B. 7-22-36

SPAN 'B' table with columns: No. Pcs., Section, Length, Location, Weight. Lists structural steel components for Span B.

SPAN 'B' (CONT'D.) table with columns: No. Pcs., Section, Length, Location, Weight. Continuation of Span B components.

SPAN 'C' table with columns: No. Pcs., Section, Length, Location, Weight. Lists structural steel components for Span C.

SPAN 'C' (CONT'D.) table with columns: No. Pcs., Section, Length, Location, Weight. Continuation of Span C components.

SPAN 'H' (CONT'D.) table with columns: No. Pcs., Section, Length, Location, Weight. Lists structural steel components for Span H.

BRIDGES OVER 20' SPAN
7 IND. 74 1037 48 52

SPAN C					SPAN C. CONT'D					SPAN D (SPAN E SAME)					SPAN D. CONT'D (SPAN E SAME)					EXPANSION JOINTS (ALL SPANS) SECTION 8					
NO	SIZE	LENGTH	LOCATION	WEIGHT	NO	SIZE	LENGTH	LOCATION	WEIGHT	NO	SIZE	LENGTH	LOCATION	WEIGHT	NO	SIZE	LENGTH	LOCATION	WEIGHT	NO	SIZE	LENGTH	LOCATION	WEIGHT	
5	30W116	25'10"	Floor Bms C-F86	13280	2	Pls 30x4	3'6"	Top Chords C-UoUs	357	6	30" Pl 116	22'10"	Floor Beams D-F86	13886	8	Pls 28x8	2'6"	Top Chords D-UoUs	2393	1068	3"	Shop Rivets			512
5	24W73	4'0"	(Left) Bottom Chd. C-L1L1	848	4	Pls 24x4	3'6"	" C-UoUs, C-UoUs	571	5	24" W 73	22'10"	(Cut) Bottom Chd. D-L1L1	19155	8	Pls 21x4	2'6"	Bottom Chd. D-UoUs	432	54	3"	Shop Rivets			18
2	21W59	7'0"	(Right) Strut C-B54	49	4	Pls 21x4	3'0"	" C-UoUs, C-UoUs	4692	7	21" W 59	22'10"	(Cut) Shirts D-B54	68	16	Pls 18x4	1'4"	Top Chd. D-UoUs	681	7	7" I 18x9	31'0"	Joint Support H-351	1147	
2	16W36	15'3"	(Left) " C-B55-C88	103	8	Pls 17x4	3'0"	" " " " " "	7140	2	16" W 36	22'10"	(Cut) " " D-B54	98	2	Pls 15x4	1'4"	(Cut) Bottom Chd. D-L1L1, D-L1L1	74	2	1" I 18x9	15'3"	Expansion Jts E1, E2	1137	
2	16W36	45'11"	Strut C-S2X	3811	4	Pls 17x4	5'6"	Diagonal C-L0L1	561	6	16" W 36	30'10"	Stringers D-B54	662	40	Pls "	1'10"	Top Chords D-UoUs, D-UoUs	1439	1	1" I 18x9	15'3"	Joint Support H-351	536	
2	"	48'0"	" C-S18	3403	4	Pls "	3'0"	" " " " " "	308	6	"	29'11"	" D-S18, D-S20	6622	8	Pls "	1'10"	Bottom " D-L1L1	287	3	1" I 18x9	30'7"	Exp. Joint CE, DE, EE	1799	
3	"	30'11"	" C-S24-C-S24	3246	8	"	2'0"	Top Chord C-UoUs, C-UoUs	387	8	"	30'10"	" " " " " "	6622	4	Pls " 14x4	2'2"	Bottom " D-L1L1	446	2	1" I 18x9	30'7"	Exp. Joint EE, FE	1799	
13	"	29'11"	" C-S19 & C-S20	14001	8	"	4'0"	Bottom Chord C-L0L2	168	13	"	12'2"	" " " " " "	230	4	Pls " 12x8	1'8"	Diagonal D-L0L1, D-L0L1	1141	3	1" I 18x9	30'7"	Exp. Joint EE, FE	1799	
36	"	29'11"	" C-S16 & C-S17	33727	8	"	2'1"	" " " " " "	343	40	14" W 30	14'10"	" D-S6	17850	9	Pls "	3'0"	Bottom Chd. D-L1L1, D-L1L1	227	6	1" I 18x9	30'7"	Exp. Joint EE, FE	1799	
36	14W30	14'10"	" C-S6	16065	8	"	9'x4"	Top Chord C-UoUs	57	2	"	18'10"	Diagonal D-L1L1, D-L1L1	7000	4	Pls "	1'8"	Bottom Chd. D-L1L1, D-L1L1	227	8	Pls " 14x4	14'7"	Exp. Joint EE, FE	1799	
2	"	14'10"	" C-S6	16065	2	"	9'x4"	Top Chd. C-UoUs	259	4	"	18'10"	" " " " " "	6961	4	Pls "	1'8"	" " " " " "	227	8	Pls " 14x4	14'7"	Exp. Joint EE, FE	1799	
2	"	14'10"	" C-S10	3403	2	"	9'x4"	Top Chd. C-UoUs	259	4	"	18'10"	" " " " " "	6961	4	Pls "	1'8"	" " " " " "	227	8	Pls " 14x4	14'7"	Exp. Joint EE, FE	1799	
4	"	14'10"	" C-S11 & C-S23	7000	20	"	8'x4"	Top Chd. C-UoUs	218	4	"	18'10"	" " " " " "	6961	4	Pls "	1'8"	" " " " " "	227	8	Pls " 14x4	14'7"	Exp. Joint EE, FE	1799	
4	"	14'10"	" C-S12 & C-S22	7000	20	"	8'x4"	Top Chd. C-UoUs	218	4	"	18'10"	" " " " " "	6961	4	Pls "	1'8"	" " " " " "	227	8	Pls " 14x4	14'7"	Exp. Joint EE, FE	1799	
4	"	14'10"	" C-S13 & C-S21	6961	20	"	8'x4"	Top Chd. C-UoUs	218	4	"	18'10"	" " " " " "	6961	4	Pls "	1'8"	" " " " " "	227	8	Pls " 14x4	14'7"	Exp. Joint EE, FE	1799	
4	"	14'10"	" C-S14 & C-S20	4077	20	"	8'x4"	Top Chd. C-UoUs	218	4	"	18'10"	" " " " " "	6961	4	Pls "	1'8"	" " " " " "	227	8	Pls " 14x4	14'7"	Exp. Joint EE, FE	1799	
4	"	14'10"	" C-S15 & C-S19	3936	20	"	8'x4"	Top Chd. C-UoUs	218	4	"	18'10"	" " " " " "	6961	4	Pls "	1'8"	" " " " " "	227	8	Pls " 14x4	14'7"	Exp. Joint EE, FE	1799	
4	"	14'10"	" C-S16 & C-S18	3936	20	"	8'x4"	Top Chd. C-UoUs	218	4	"	18'10"	" " " " " "	6961	4	Pls "	1'8"	" " " " " "	227	8	Pls " 14x4	14'7"	Exp. Joint EE, FE	1799	
4	"	14'10"	" C-S17 & C-S24	3936	20	"	8'x4"	Top Chd. C-UoUs	218	4	"	18'10"	" " " " " "	6961	4	Pls "	1'8"	" " " " " "	227	8	Pls " 14x4	14'7"	Exp. Joint EE, FE	1799	
4	"	14'10"	" C-S18 & C-S21	3936	20	"	8'x4"	Top Chd. C-UoUs	218	4	"	18'10"	" " " " " "	6961	4	Pls "	1'8"	" " " " " "	227	8	Pls " 14x4	14'7"	Exp. Joint EE, FE	1799	
4	"	14'10"	" C-S19 & C-S20	3936	20	"	8'x4"	Top Chd. C-UoUs	218	4	"	18'10"	" " " " " "	6961	4	Pls "	1'8"	" " " " " "	227	8	Pls " 14x4	14'7"	Exp. Joint EE, FE	1799	
4	"	14'10"	" C-S20 & C-S19	3936	20	"	8'x4"	Top Chd. C-UoUs	218	4	"	18'10"	" " " " " "	6961	4	Pls "	1'8"	" " " " " "	227	8	Pls " 14x4	14'7"	Exp. Joint EE, FE	1799	
4	"	14'10"	" C-S21 & C-S18	3936	20	"	8'x4"	Top Chd. C-UoUs	218	4	"	18'10"	" " " " " "	6961	4	Pls "	1'8"	" " " " " "	227	8	Pls " 14x4	14'7"	Exp. Joint EE, FE	1799	
4	"	14'10"	" C-S22 & C-S17	3936	20	"	8'x4"	Top Chd. C-UoUs	218	4	"	18'10"	" " " " " "	6961	4	Pls "	1'8"	" " " " " "	227	8	Pls " 14x4	14'7"	Exp. Joint EE, FE	1799	
4	"	14'10"	" C-S23 & C-S12	3936	20	"	8'x4"	Top Chd. C-UoUs	218	4	"	18'10"	" " " " " "	6961	4	Pls "	1'8"	" " " " " "	227	8	Pls " 14x4	14'7"	Exp. Joint EE, FE	1799	
4	"	14'10"	" C-S24 & C-S13	3936	20	"	8'x4"	Top Chd. C-UoUs	218	4	"	18'10"	" " " " " "	6961	4	Pls "	1'8"	" " " " " "	227	8	Pls " 14x4	14'7"	Exp. Joint EE, FE	1799	
20	12" WF 40	15'8"	Vert. Post. C-UoUs	642	160	"	4'x4"	" " " " " "	2767	31	"	14'10"	Vertical Post. D-UoUs	5037	1	"	0'10"	Bottom Lateral D-B11	11	6	Pls 4x4	0'4"	Exp. Joint EE	28	
2	"	15'8"	" " " " " "	642	160	"	4'x4"	" " " " " "	2767	31	"	14'10"	" " " " " "	5037	1	"	0'10"	" " " " " "	11	6	Pls 4x4	0'4"	Exp. Joint EE	28	
2	"	15'8"	" " " " " "	642	160	"	4'x4"	" " " " " "	2767	31	"	14'10"	" " " " " "	5037	1	"	0'10"	" " " " " "	11	6	Pls 4x4	0'4"	Exp. Joint EE	28	
4	"	15'8"	" " " " " "	642	160	"	4'x4"	" " " " " "	2767	31	"	14'10"	" " " " " "	5037	1	"	0'10"	" " " " " "	11	6	Pls 4x4	0'4"	Exp. Joint EE	28	
4	"	15'8"	" " " " " "	642	160	"	4'x4"	" " " " " "	2767	31	"	14'10"	" " " " " "	5037	1	"	0'10"	" " " " " "	11	6	Pls 4x4	0'4"	Exp. Joint EE	28	
4	"	15'8"	" " " " " "	642	160	"	4'x4"	" " " " " "	2767	31	"	14'10"	" " " " " "	5037	1	"	0'10"	" " " " " "	11	6	Pls 4x4	0'4"	Exp. Joint EE	28	
4	"	15'8"	" " " " " "	642	160	"	4'x4"	" " " " " "	2767	31	"	14'10"	" " " " " "	5037	1	"	0'10"	" " " " " "	11	6	Pls 4x4	0'4"	Exp. Joint EE	28	
4	"	15'8"	" " " " " "	642	160	"	4'x4"	" " " " " "	2767	31	"	14'10"	" " " " " "	5037	1	"	0'10"	" " " " " "	11	6	Pls 4x4	0'4"	Exp. Joint EE	28	
4	"	15'8"	" " " " " "	642	160	"	4'x4"	" " " " " "	2767	31	"	14'10"	" " " " " "	5037	1	"	0'10"	" " " " " "	11	6	Pls 4x4	0'4"	Exp. Joint EE	28	
4	"	15'8"	" " " " " "	642	160	"	4'x4"	" " " " " "	2767	31	"	14'10"	" " " " " "	5037	1	"	0'10"	" " " " " "	11	6	Pls 4x4	0'4"	Exp. Joint EE	28	
4	"	15'8"	" " " " " "	642	160	"	4'x4"	" " " " " "	2767	31	"	14'10"	" " " " " "	5037	1	"	0'10"	" " " " " "	11	6	Pls 4x4	0'4"	Exp. Joint EE	28	
4	"	15'8"	" " " " " "	642	160	"	4'x4"	" " " " " "	2767	31	"	14'10"	" " " " " "	5037	1	"	0'10"	" " " " " "	11	6	Pls 4x4	0'4"	Exp. Joint EE	28	
4	"	15'8"	" " " " " "	642	160	"	4'x4"	" " " " " "	2767	31	"	14'10"	" " " " " "	5037	1	"	0'10"	" " " " " "	11	6	Pls 4x4	0'4"	Exp. Joint EE	28	
4	"	15'8"	" " " " " "	642	160	"	4'x4"	" " " " " "	2767	31	"	14'10"	" " " " " "	5037	1	"	0'10"	" " " " " "	11	6	Pls 4x4	0'4"	Exp. Joint EE	28	
4	"	15'8"	" " " " " "	642	160	"	4'x4"	" " " " " "	2767	31	"	14'10"	" " " " " "	5037	1	"	0'10"	" " " " " "	11	6	Pls 4x4	0'4"	Exp. Joint EE	28	
4	"	15'8"	" " " " " "	642	160	"	4'x4"	" " " " " "	2767	31	"	14'10"	" " " " " "	5037	1	"	0'10"	" " " " " "	11	6	Pls 4x4	0'4"	Exp. Joint EE	28	
4	"	15'8"	" " " " " "	642	160	"	4'x4"	" " " " " "	2767	31	"	14'10"	" " " " " "	5037	1	"	0'10"	" " " " " "	11	6	Pls 4x4	0'4"	Exp. Joint EE	28	
4	"	15'8"	" " " " " "	642	160	"	4'x4"	" " " " " "	2767	31	"	14'10"	" " " " " "	5037	1	"	0'10"	" " " " " "	11	6	Pls 4x4	0'4"	Exp. Joint EE	28	
4	"	15'8"	" " " " " "	642	160	"	4'x4"	" " " " " "	2767	31	"	14'10"	" " " " " "	5037	1	"	0'10"	" " " " " "	11	6	Pls 4x4	0'4"	Exp. Joint EE	28	
4	"	15'8"	" " " " " "	642	160	"	4'x4"	" " " " " "	2767	31	"	14'10"	" " " " " "	5037	1	"	0'10"	" " " " " "	11	6	Pls 4x4	0'4"	Exp. Joint EE	28	
4	"	15'8"	" " " " " "	642	160	"	4'x4"	" " " " " "	2767	31	"	14'10"	" " " " " "	5037	1	"	0'10"	" " " " " "	11	6	Pls 4x4	0'4"	Exp. Joint EE	28	
4	"	15'8"	" " " " " "	642	160	"	4'x4"	" " " " " "	2767	31	"	14'10"	" " " " " "	5037	1	"	0'10"	" " " " " "	11	6	Pls 4x4	0'4"	Exp. Joint EE	28	
4	"	15'8"	" " " " " "	642	160	"	4'x4"	" " " " " "	2767	31	"	14'10"	" " " " " "	5037	1	"	0'10"	" " " " " "	11	6	Pls 4x4	0'4"	Exp. Joint EE	28	
4	"	15'8"	" " " " " "	642	160	"	4'x4"	" " " " " "	2767	31	"	14'10"	" " " " " "	5037	1	"	0'10"	" " " " " "	11	6	Pls 4x4	0'4"	Exp. Joint EE	28	
4	"	15'8"	" " " " " "	642	160	"	4'x4"	" " " " " "	2767	31	"	14'10"	" " " " " "	5037	1	"	0'10"	" " " " " "	11	6	Pls 4x4	0'4"	Exp. Joint EE	28	
4	"	15'8"	" " " " " "	642	160	"	4'x4"	" " " " " "	2767	31	"	14'10"	" " " " " "	5037	1	"	0'10"	" " " " " "	11	6	Pls 4x4	0'4"	Exp. Joint EE	28	
4	"	15'8"	" " " " " "	642	160	"	4'x4"	" " " " " "	2767	31	"	14'10"	" " " " " "	5037	1	"	0'10"	" " " " " "	11	6	Pls 4x4	0'4"	Exp. Joint EE	28	
4	"	15'8"	" " " " " "	642	160	"	4'x4"	" " " " " "	2767	31	"	14'10"	" " " " " "	5037	1	"	0'10"	" " " " " "	11	6	Pls 4x4	0'4"	Exp. Joint EE	28	
4	"	15'8"	" " " " " "	642	160	"	4'x4"	" " " " " "	2767	31	"	14'10"	" " " " " "	5037	1	"	0'10"	" " " " " "	11	6	Pls 4x4	0'4"	Exp. Joint EE	28	
4	"	15'8"	" " " " " "	642	160	"	4'x4"	" " " " " "	2767	31	"	14'10"	" " " " " "	5037	1	"	0'10"	" " " " " "	11	6	Pls 4x4	0'4"	Exp. Joint EE	28	
4	"	15'8"	" " " " " "	642	160	"	4'x4"	" " " " " "	2767	31	"	14'10"	" " " " " "	5037	1	"	0'10"	" " " " " "	11	6	Pls 4x4	0'4"	Exp. Joint EE	28	
4	"	15'8"	" " " " " "	642	160	"	4'x4"	" " " " " "	2767	31	"														

No. Pcs.	Section	Length	Location	Tot. Weight
2	30"W 116"	22'-0"	Floor Beams F-FB6	1320.0
2	24"x 19.9"	4'-0"	Bolt. Chords F-LA4 (Cuts A)	648
2	21"W 59"	1'-8"	Bolt. Strut F-B54	49
2	16"W 40"	1'-3"	Stringers F-S2X	103
2	16"W 36"	45'-11 1/2"	F-S10	332.2
2	16"W 36"	30'-11 1/2"	F-S2X, F-S23X	3346
15	16"W 36"	29'-11"	F-S19, F-S20	14001
3	16"W 36"	29'-0 1/2"	F-S16, F-S17	3723
36	14"W 30"	14'-10"	F-S6	16655
2	14"W 37"	(14'-10")	F-S8	884
2	14"W 36"	14'-9 1/2"	F-S10	874
4	12"W 92"	0'-11 1/2"	F-S11, F-S1X, F-P4X	115
4	12"W 92"	19'-0"	Diags. F-UUs, F-UUs	7000
4	12"W 92"	19'-11"	F-LUs, F-LUs	6961
4	12"W 92"	19'-2 1/2"	F-LUs, F-LUs	4077
4	12"W 50"	19'-3 1/2"	F-UUs, F-UUs	3696
4	12"W 50"	3'-5 1/2"	Top Chords F-UUs, F-UUs	710
4	12"W 50"	3'-2 1/2"	F-UUs, F-UUs	844
8	12"W 40"	15'-8 1/2"	Vert. Post. F-UUs, F-UUs	5037
2	12"W 40"	14'-9 1/2"	F-UUs	1185
2	10"W 45"	18'-0"	Diagonal F-LUs	1680
6	18"L 519"	30'-0"	Top Chord F-UUs, F-UUs	12456
4	18"L 450"	46'-0 1/2"	F-UUs	8451
4	18"L 450"	44'-3 1/2"	F-UUs	8147
4	18"L 42 1/2"	4'-4 1/2"	Bolt. Chord F-LUs, F-LUs	151
4	18"L 50 1/2"	29'-3 1/2"	F-LUs	8125
6	18"L 58"	45'-11 1/2"	F-LUs, F-LUs	12698
4	15"L 50"	18'-0"	Diagonal F-LUs	3733
4	15"L 40"	26'-0"	Bolt. Chord F-LUs	4266
4	15"L 40"	26'-3 1/2"	F-LUs	4231
20	15"L 33 1/2"	3'-3 1/2"	Floor Beams F-FB5, F-FB6	2207
4	12"L 35"	2'-4 1/2"	Bolt. Chord F-LUs	332
5	10"L 20"	0'-1"	Lateral F-BL10	58
4	6"-6"x6"x6"	35'-2 1/2"	F-BL6, F-BL7	2159
6	6"-6"x6"x6"	4'-0"	Chord F-LUs	627
4	6"-6"x6"x6"	35'-1 1/2"	Lateral F-BL6, F-BL9	2094
2	6"-6"x6"x6"	34'-8 1/2"	F-BL11, F-BL12	1034
20	6"-4"x4"x4"	1'-4 1/2"	S.W. Brackets F-WB4, F-WB8	792
4	6"-4"x4"x4"	0'-11 1/2"	Bolt. Chords F-LUs	53
4	6"-4"x4"x4"	0'-10"	Vert. Post. F-UUs	33
16	6"-4"x4"x4"	0'-11 1/2"	S.W. Brackets F-WB4, F-WB8	39
40	6"-3"x3"x3"	3'-0"	Floor Beams F-FB5, F-FB6	1020
2	6"-3"x3"x3"	1'-4 1/2"	Bolt. Chord F-LUs	23
2	6"-3"x3"x3"	0'-9 1/2"	Stringers F-S2X	12
4	6"-3"x3"x3"	2'-5"	Bolt. Struts F-B51	10
40	6"-3"x3"x3"	5'-3 1/2"	S.W. Brackets F-WB4, 5, 6, 8	1575
40	6"-3"x3"x3"	5'-2"	F-WB4, 5, 6, 8	1488
16	6"-3"x3"x3"	3'-0"	Bolt. Chords F-LUs, F-LUs	427
2	6"-3"x3"x3"	1'-0"	F-LUs	46
2	6"-3"x3"x3"	1'-0 1/2"	F-LUs	46
8	6"-3"x3"x3"	18'-1 1/2"	Diagonals F-LUs	428
6	6"-3"x3"x3"	1'-2 1/2"	Bolt. Chords F-LUs, F-LUs	160
5	6"-3"x3"x3"	0'-9"	Lateral F-BL10	51
4	6"-6"x4"x4"	22'-5 1/2"	Strut F-B54, F-B57	1106
2	6"-6"x4"x4"	22'-1"	F-B57	543
8	6"-6"x4"x4"	21'-11 1/2"	F-B55, F-B56	2161
20	6"-6"x4"x4"	16'-3 1/2"	Sway Frames F-F4, F-F5	4051
4	6"-6"x4"x4"	1'-5"	Bolt. Chord F-LUs	10
160	6"-6"x4"x4"	0'-9 1/2"	Stringers F-S11, F-S12	1394
2	6"-5"x5"x5"	1'-10"	Bolt. Chord F-LUs (Cut 6 & 7)	44
2	6"-5"x5"x5"	1'-5"	F-LUs	39
8	6"-5"x5"x5"	0'-10 1/2"	F-LUs	97
4	6"-5"x5"x5"	0'-9"	F-LUs	41
4	6"-5"x5"x5"	0'-6"	Top Chord F-UUs, F-UUs	21
2	6"-4"x4"x4"	1'-2 1/2"	Bolt. F-LUs	36
40	6"-4"x4"x4"	1'-0 1/2"	F-LUs	64
40	6"-4"x4"x4"	0'-11 1/2"	Floor Beams F-FB5, F-FB6	868
20	6"-4"x4"x4"	1'-5 1/2"	S.W. Brackets F-WB5, F-WB6	456
2	6"-4"x4"x4"	1'-5"	Bolt. Chord F-LUs	211
2	6"-4"x4"x4"	0'-9 1/2"	Sway Frames F-F4, F-F5	76
10	6"-3"x3"x3"	0'-1"	Floor Beams F-FB5	39
5	6"-5"x2"x2"	12'-0"	Bolt. Lateral F-BL10	358
56	6"-5"x2"x2"	1'-3"	Stringers F-S11, F-S12	392
20	6"-5"x2"x2"	1'-4 1/2"	Top Chords F-UUs, F-UUs	608
4	6"-4"x4"x4"	39'-0 1/2"	Bolt. F-LUs	5711
4	6"-4"x4"x4"	29'-1 1/2"	F-LUs, F-LUs	8758
4	6"-4"x4"x4"	1'-10"	F-LUs, F-LUs	274
2	6"-4"x4"x4"	3'-1 1/2"	F-LUs	115
8	6"-4"x4"x4"	0'-8"	F-UUs	881
2	6"-4"x4"x4"	0'-8"	Top	24
8	6"-4"x4"x4"	30'-8 1/2"	F-UUs, F-UUs	2504
4	6"-4"x4"x4"	29'-10"	F-UUs	1217
4	6"-4"x4"x4"	25'-0"	F-UUs	1042
8	6"-4"x4"x4"	4'-1 1/2"	F-UUs, F-UUs	377
20	6"-4"x4"x4"	3'-9"	Stringers F-UUs	765
4	6"-3"x3"x3"	0'-8"	F-UUs	24
2	6"-3"x3"x3"	0'-9 1/2"	F-UUs	10
4	6"-3"x3"x3"	2'-2 1/2"	F-UUs	603
4	6"-3"x3"x3"	3'-6 1/2"	F-LUs	1451
4	6"-3"x3"x3"	3'-9 1/2"	F-LUs	1218
8	6"-3"x3"x3"	2'-2"	Top	353
10	6"-3"x3"x3"	0'-11"	Floor Beams F-FB5, F-FB6	156
8	6"-4"x4"x4"	21'-11 1/2"	Top Chords F-UUs, F-UUs	1900
6	6"-4"x4"x4"	23'-0 1/2"	F-UUs, F-UUs	1867
8	6"-4"x4"x4"	1'-1 1/2"	F-UUs, F-UUs	485
4	6"-4"x4"x4"	6'-9 1/2"	F-UUs	251
16	6"-3"x3"x3"	1'-8 1/2"	Bolt. F-LUs, F-LUs	213
8	6"-3"x3"x3"	3'-1 1/2"	F-LUs	366
4	6"-6"x4"x4"	1'-4 1/2"	Top	3415
4	6"-6"x4"x4"	5'-9 1/2"	Bolt. F-UUs, F-UUs	2197
4	6"-6"x4"x4"	2'-11 1/2"	Top	959
8	6"-5"x2"x2"	4'-10 1/2"	F-UUs, F-UUs	2596
6	6"-5"x2"x2"	4'-6 1/2"	Bolt. F-LUs	2100

No. Pcs.	Section	Length	Location	Tot. Weight
2	6"-3"x3"x3"	3'-6"	Top Chords F-UUs	351
4	6"-24"x24"	3'-0"	F-UUs, F-UUs	871
4	6"-25"x25"	35'-0"	F-UUs, F-UUs	5161
4	6"-25"x25"	30'-0"	F-UUs, F-UUs	4622
4	6"-15"x15"	30'-0"	F-UUs, F-UUs	7140
4	6"-15"x15"	5'-6"	Diagonal F-LUs	3961
4	6"-15"x15"	3'-0"	F-LUs	2306
8	6"-15"x15"	2'-10 1/2"	Top Chords F-UUs, F-UUs	1859
2	6"-12"x12"	4'-0"	Bolt. F-LUs	340
8	6"-12"x12"	2'-1"	F-LUs, F-LUs	340
2	6"-9"x9"	1'-10"	Top	43
8	6"-8"x8"	2'-9"	Vert. Post. F-UUs, F-UUs	299
20	6"-1"x1"	0'-11"	Floor Beams F-FB5, F-FB6	218
20	6"-2 1/2"x2 1/2"	1'-1 1/2"	S.W. Brackets F-WB4, F-WB8	96
20	6"-2 1/2"x2 1/2"	1'-0 1/2"	F-WB5, F-WB8	89
8	6"-21"x21"	1'-10 1/2"	Bolt. Chord F-LUs, F-LUs	606
4	6"-14 1/2"x14 1/2"	4'-5 1/2"	F-LUs	383
4	6"-14 1/2"x14 1/2"	4'-0 1/2"	F-LUs	351
1	6"-14 1/2"x14 1/2"	1'-10 1/2"	Sway Frames F-F4, F-F5	29
160	6"-45"x45"	0'-8 1/2"	Top Chords F-UUs	3767
32	6"-31"x31"	0'-8 1/2"	Top Chords F-UUs	87
10	6"-60"x60"	4'-1 1/2"	S.W. Brackets F-WB4, 5, 6, 7, 8	3989
12	6"-21"x21"	1'-10 1/2"	Top Chords F-UUs	766
4	6"-23"x23"	2'-6"	F-UUs, F-UUs	293
8	6"-21 1/2"x21 1/2"	1'-11 1/2"	Bolt. F-LUs	432
16	6"-18"x18"	1'-10 1/2"	Top	681
1	6"-15"x15"	5'-1"	Bolt. F-LUs	107
1	6"-15"x15"	5'-1"	Bolt. F-LUs	107
16	6"-15"x15"	1'-1 1/2"	F-LUs, F-LUs	2832
40	6"-15"x15"	1'-10 1/2"	F-LUs, F-LUs	1443
8	6"-15"x15"	1'-10 1/2"	Top	287
4	6"-14 1/2"x14 1/2"	4'-2 1/2"	Bolt. F-LUs	3120
4	6"-14 1/2"x14 1/2"	3'-4 1/2"	F-LUs	251
2	6"-14 1/2"x14 1/2"	18'-1 1/2"	Diagonals F-LUs	225
2	6"-12"x12"	3'-8 1/2"	Bolt. Chord F-LUs, F-LUs	511
2	6"-12"x12"	1'-4 1/2"	F-LUs	42
4	6"-11 1/2"x11 1/2"	3'-6 1/2"	F-LUs	217
2	6"-11 1/2"x11 1/2"	1'-8 1/2"	Bolt. Lateral F-BL10	48
8	6"-9"x9"	0'-11 1/2"	Sway Frames F-F4	95
14	6"-9"x9"	3'-6"	S.W. Brackets F-WB4, 5-8	563
26	6"-9"x9"	1'-10 1/2"	Top Chords F-UUs, F-UUs	553
1	6"-9"x9"	0'-11 1/2"	Bolt. Lateral F-BL11	11
5	6"-9"x9"	0'-10 1/2"	F-BL10	49
4	6"-8"x8"	3'-9 1/2"	Chord F-LUs	159
10	6"-7"x7"	0'-1 1/2"	Lateral F-BL10	56
10	6"-25"x25"	0'-1"	F-BL10	19
1	6"-36"x36"	22'-9"	Struts F-B57	810
8	6"-12"x12"	1'-6"	Chords F-LUs, F-LUs	151
8	6"-10"x10"	1'-6"	Diagonals F-LUs, F-LUs	102
8	6"-8"x8"	3'-9 1/2"	Top Chords F-UUs, F-UUs	109
8	6"-8"x8"	2'-9 1/2"	F-UUs, F-UUs	157
4	6"-8"x8"	2'-9 1/2"	F-UUs	77
8	6"-8"x8"	1'-10 1/2"	Diagonals F-LUs, F-LUs	105
1	6"-9"x9"	0'-11 1/2"	F-LUs, F-LUs	92
4	6"-6"x6"	0'-11 1/2"	Sway Frames F-F5	16
4	6"-6"x6"	0'-8 1/2"	F-F5	15
16	6"-6"x6"	0'-8 1/2"	F-F4	45
36	6"-6"x6"	0'-8"	F-F4	41
8	6"-10"x10"	1'-6"	Diagonals F-LUs, F-LUs	51
4	6"-9"x9"	1'-0 1/2"	Bolt. Struts F-B57	16
8	6"-8"x8"	1'-1"	Vert. Post. F-UUs, F-UUs	43
180	2 1/2"x 2 1/2"	Ring Fills	Sway Frames F-F4, F-F5	131
2076	1/8"x Shop	Kivets		2293
4332	1/8"x Shop	Kivets		1431
2	Cast Steel	Top Shoes T-S1		1142
2	"	Exp. F-S1		1164
2	"	Fixed F-S1		1933
2	6"-25"x4"	2'-8"	BPI - (2 Studs 1/2"x3/4" each)	1820
2	6"-30"x1 1/2"	2'-10"	BPB - (2)	866
12	6"-1 1/2"x1 1/2"	1'-10"	Anchors for Shoes (Swaged)	158
6090	1/8"x Field Rivets			2837
			Total Field Rivets	2837
			Total Structural Steel - Span "F"	4281608

No. Pcs.	Section	Length	Location	Tot. Weight
24	3"x3"	2'-10"	Downspout Guides DG-2	464
10	3"x3"		DG	174
24	2"x4"	4'-11"	Rivets & Lock Washers DG-2	168
10	3"x6"		DG-1	58
34	3"x4"	2'-0"	DG1 & DG2	120
			TOTAL STRUCTURAL STEEL WITH DRAINS	1004'
			MISCELLANEOUS	
34	6" Roadway	Draings @ 120" Each		4080
68	1/2"x 1/2"	Bolts		34
			TOTAL CAST IRON FOR DRAINS	4084'
10	Downspouts	M-D5 @ 12'-0"		120 Lin. Ft.
24	"	M-D5 @ 11'-0"		408'
			TOTAL STEEL FOR DRAINS	528'

SIZE	LOCATION	WASHERS	UNIT WT. INC. WASH.	SPAN								TOTAL NO. WASHERS		TOTAL NO. BOLTS			
				A	B	C	D	E	F	G	H	LOCK	CUT				
1" x 1/2"	TS2 to G-LU L2	1-Lock ea.	2.019												8		
1" x 1/2"	TS2 to LAL & LUL	1 - "	1.309				24	16	16	16	16	16	16		120		
1" x 1/2"	TS2 to BF-2	1 - "	1.909	8											8		
TOTAL 1" x 1/2" 4 1/2" BOLTS					8	24	16	16	16	16	16	16	16			128	
1" x 3/4"	Stringers to Floor Bms	1-Lock ea.	1.199	8											8		
1" x 3/4"	TS3 to A-BT&B	1 - "	1.41			6									12		
1" x 3/4"	TS3 to Beams	1 - "	1.31	8											8		
1" x 3/4"	Stringers to Floor Bms	1 - "	1.29	24											24		
TOTAL 1" x 3/4" 3/4" BOLTS					24						4					8	
3/4" x 3/4"	Stringers to Floor Bms	1-Lock ea.	1.25		8										16		
3/4" x 3/4"	"	1 - "	1.20												16		
3/4" x 3/4"	E2 to Top Chords	1-Lock ea.	1.353				76								272		
TOTAL 3/4" x 3/4" 3/4" BOLTS							76			2	2	2	76	120		6	
3/4" x 3/4"	Stringers to Floor Bms	1-Lock ea.	1.313							2	2	2	76	120		278	
3/4" x 3/4"	E1 to Top Chords	1-Lock ea.	1.16								4				4		
3/4" x 3/4"	E2 to Top Chords	1-Lock ea.	1.313												6		
TOTAL 3/4" x 3/4" 3/4" BOLTS											4	4	4	6		6	
3/4" x 3/4"	Stringers to Floor Bms	1-Lock ea.	1.12				56	40	44	44	40	64	12			360	
3/4" x 3/4"	"	1-Lock ea.	1.273													8	
3/4" x 3/4"	JS1 to Top Chords	1-Lock ea.	1.273								4				2		
3/4" x 3/4"	"	1-Lock															

LOCATION	DESCRIPTION	QUANTITY	REMARKS
Sta. 10+97 Left	Special Inlet With C.I. Grate	0.56	
10+97 Right	Special Catch Basin With C.I. Grate	0.98	
10+97 Left & Right	12" V.C.P. & C.I. Pipe	28' 0"	
10+97 Right	12" Cor. Metal Pipe & One Sid. Nail	86' 0"	
Sta. 11+89 Left	Special Inlet With C.I. Grate	0.56	
11+89 Right	Special Catch Basin With C.I. Grate	0.98	
11+89 Left & Right	12" V.C.P. & C.I. Pipe	28' 0"	
11+89 Right	12" Cor. Metal Pipe & One Sid. Nail	86' 0"	
Sta. 11+93 Left	Special Inlet With C.I. Grate	0.56	
11+93 Right	Special Catch Basin With C.I. Grate	0.98	
11+93 Left & Right	12" V.C.P. & C.I. Pipe	28' 0"	
11+93 Right	12" Cor. Metal Pipe & One Sid. Nail	86' 0"	

SUMMARY OF MISCELLANEOUS APPROACH QUANTITIES

ITEM	QUANTITY			UNIT	ITEM	QUANTITY			UNIT	LENGTH
	NEW	RESET	REMOVAL			NEW	RESET	REMOVAL		
Catch Basin, Ring & Cover Top				Each	Flexible Plate Guard Rail					440.0
Catch Basin, Cast & Gully Inlet Top	296.36				Cable Guard Rail					110.0
Cast & Gully Inlet Top	100.0				Expansion Joint, Pavement					13.88
Cast & Gully Inlet Top					Expansion Joint, Expansion Joint					Sq. Ft. 00.146
Cast & Gully Inlet Top					Expansion Joint, Expansion Joint					0.70
Cast & Gully Inlet Top					Preformed Bitum. Exp. Jts					0.70

SUMMARY OF GRADING QUANTITIES

GRADE	SECTION	FILL		SPECIAL		TOP SOIL		RIPEAP	
		CU YDS.	CU YDS.	CU YDS.	CU YDS.	CU YDS.	CU YDS.	CU YDS.	CU YDS.

SUMMARY OF STRUCTURE QUANTITIES

SPAN	REINFORCING STEEL (1930 STANDARDS)												STRUCTURAL STEEL	PILES	STEEL TUBING
	NO.	CLASS	SIZE	LENGTH	WEIGHT	NO.	CLASS	SIZE	LENGTH	WEIGHT	NO.	CLASS			
SPAN A	56.5	8	1/2"	108.4	8.827	502	1/2"	108.4	9.329	70.211					
B	82.5	8	1/2"	173.94	14.086	2394	1/2"	173.94	16.480	142.042					
C	138.0	8	1/2"	298.36	23.656	4011	1/2"	298.36	27.667	300.433					
D	138.0	8	1/2"	304.76	23.784	4052	1/2"	304.76	27.836	301.427					
E	138.0	8	1/2"	306.11	23.597	4028	1/2"	306.11	27.625	299.103					
F	83.0	8	1/2"	181.77	14.202	2426	1/2"	181.77	16.628	144.096					
G	84.0	8	1/2"	179.77	14.548	2420	1/2"	179.77	16.588	144.918					
Bill of Splice Bars Expansion Joints						206			16	222	17.387				
Abut. N#9				103.0											
for Drains	648.2.6				4996			1336			1004	4094	520		
TOTALS	846			1480	126,690	123,901		170,591	17,722.038	6,096	528				

172 Sq. Ft. #16 Galv. Iron For Expansion Joint Flashings (Included in Price Galv. Iron Gutters)
 105 Lin. Ft. Galv. Iron Gutters
 24 Gutter Circles (Included in Price Galv. Iron Gutters)
 24 Hangers For Expansion Joint Gutters (Included in Price Galv. Iron Gutters)

Revised weight due to adding Filler Pits. (See Dwg. S19 - Jan. 19-1952 - B.F.L.)

REINFORCING STEEL FOR THICKENED PAVEMENT

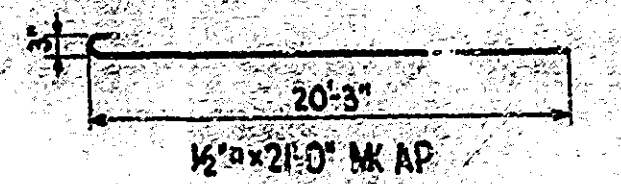
MARK	No. PIECES	SIZE	LENGTH	LOCATION	TOTAL LENGTH	WEIGHT
AP	88	1/2"	21'-0"	Longit. Thickened Pavement	1848'-0"	134.40
B	22	1/2"	21'-0"	Transv. Thickened Pavement	474'-0"	35.55
				Total Steel For Thickened Pavement	2322'-0"	170.00
B	62	3/8"	3'-0"	Lip Type Gutter Ties	186'-0"	14.88

* Weights for 1930 Standards
 Thickened Pavement = 100 Sq. Yds.

SUMMARY
STATE HIGHWAY COMMISSION OF INDIANA

OCTOBER 20, 1956

PROJECT: FA 74
SECTION: E
STRUCTURE: NO. 1784



Weights of Struct. Steel Rev-1-22-37 B.F.L.

BRIDGE CONTRACT NO. 1454

BRIDGE FILE: 52-P-1784

Rev. For Constr. Change 25-9-20-33