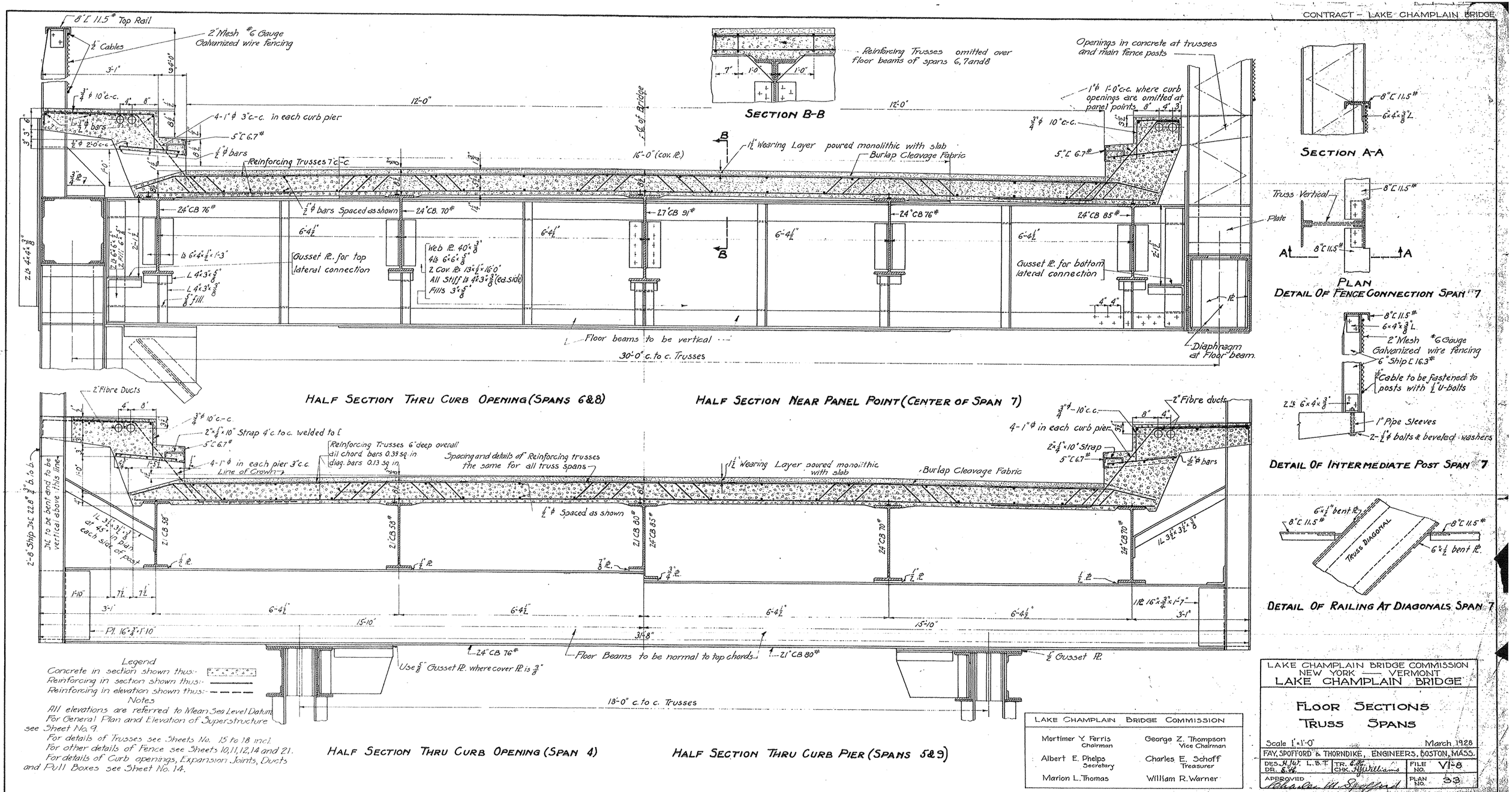


Legend
Concrete in section shown thus:-
Reinforcing in section shown thus:-
Reinforcing in elevation shown thus:-

Notes
All elevations are referred to Mean Sea Level Datum.
For General Plan and Elevation of Superstructure see Sheet No. 9.
For details of Trusses see Sheets No. 15 to 18 incl.
For other details of Fence see Sheets 10, 11, 12, 14 and 21.
For details of Curb openings, Expansion Joints, Ducts and Pull Boxes see Sheet No. 14.

LAKE CHAMPLAIN BRIDGE COMMISSION	
Mortimer Y. Ferris, Chairman	George Z. Thompson, Vice Chairman
Albert E. Phelps, Secretary	Charles E. Schoff, Treasurer
Marion L. Thomas	William R. Warner

LAKE CHAMPLAIN BRIDGE COMMISSION
NEW YORK — VERMONT
LAKE CHAMPLAIN BRIDGE

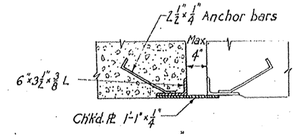
FLOOR SECTIONS
TRUSS SPANS

Scale 1" = 1'-0" March 1928

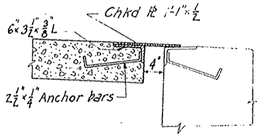
FAY, SPOFFORD & THORNDIKE, ENGINEERS, BOSTON, MASS.

DES. H.J.W. L.B.T. DR. E.H.	TR. E.H. CHK. H.J. Williams	FILE NO. V1-8
APPROVED Charles M. Spofford		PLAN NO. 33

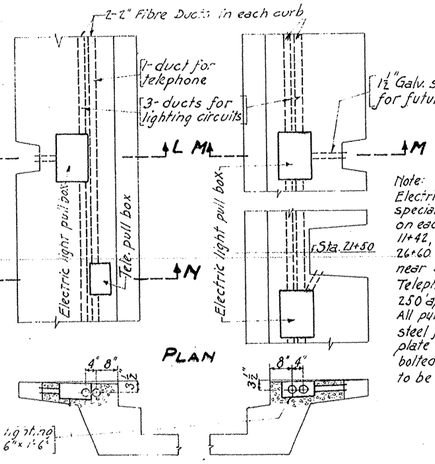
CONTRACT DRAWINGS SHEET No. 13



SECTION A-A



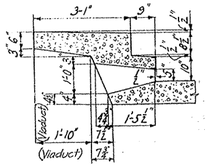
SECTION B-B



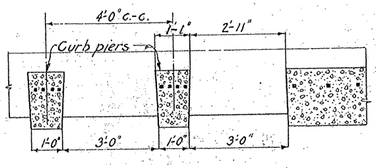
PLAN

SECTION L-L SECTION M-M

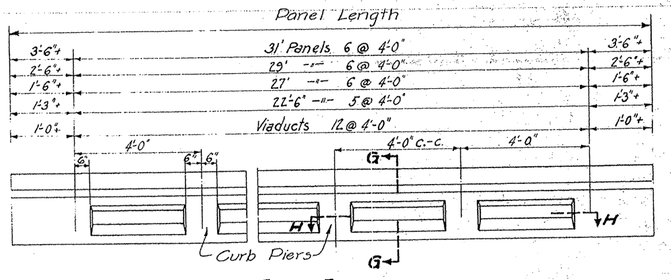
Note:
Electric lighting pull boxes and special fence posts to be installed on each side of bridge at Stations 11+42, 13+70, 16+40, 18+75, 24+25 26+60 and 29+32. Pull box also near sta. 21+50.
Telephone pull boxes about 250 apart.
All pull boxes to be made of steel frame with ¼" checkered plate cover and watertight gasket bolted to frame; sides and bottom to be covered with pressed steel.



SECTION G-G



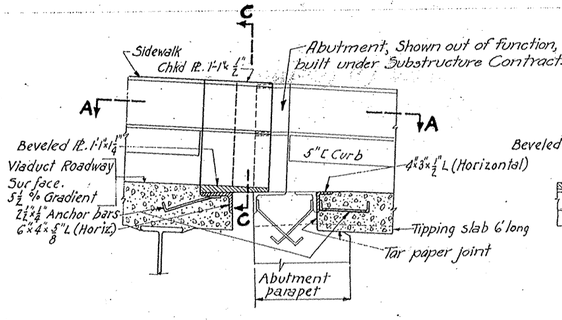
SECTION H-H



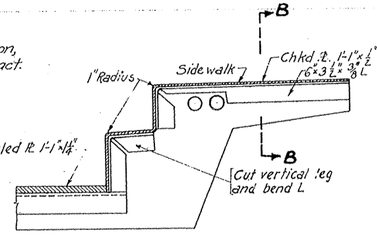
SIDE ELEVATION

DETAIL OF CURB OPENINGS

Scale ½" = 1'-0"



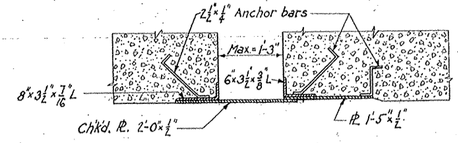
LONGITUDINAL SECTION THRU ROADWAY



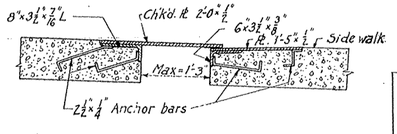
SECTION C-C

DETAIL OF EXPANSION JOINTS AT ABUTMENTS

Scale 1" = 1'-0"

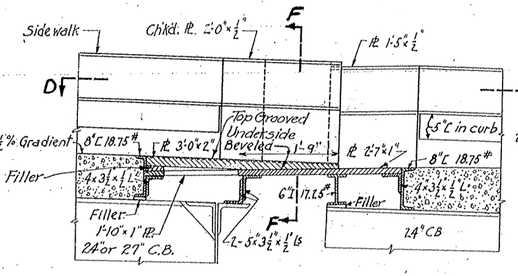


SECTION D-D

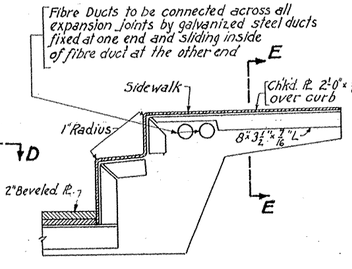


SECTION E-E

Note:-
Use fillers if necessary under expansion joint supports to correct any discrepancy in elevation



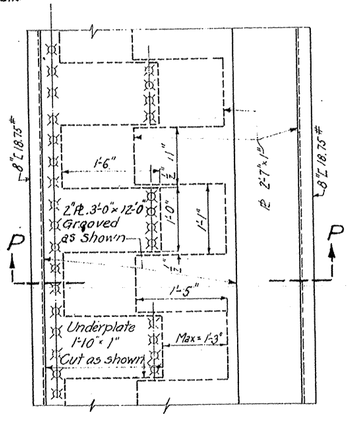
LONGITUDINAL SECTION THRU ROADWAY
SECTION P-P



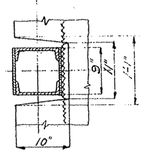
SECTION F-F

DETAIL OF EXPANSION JOINTS AT PIERS 5 AND 8

Scale 1" = 1'-0"



PLAN



SECTION N-N

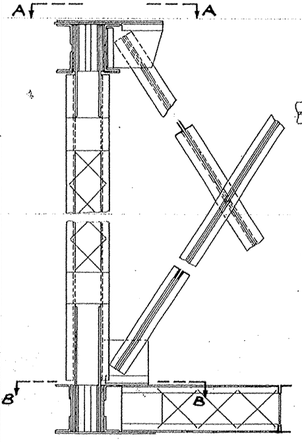
DETAIL OF DUCTS AND PULL BOXES

Scale ½" = 1'-0"

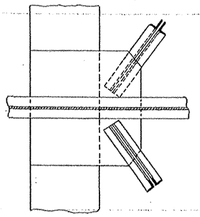
STEEL SCHEDULE

MEMBER	STRESS IN KIPS DEAD	LIVE (INCL. IMP.)	TOTAL	SECTION	AREA GROSS	AREA NET	ASSEMBLY
U_0-U_1			0	4 ℓs 6×4×$\frac{3}{8}$ = 14.44 1 Cov. Pl. 26×$\frac{1}{2}$ = 13.0 2 Web Pls 18×$\frac{3}{8}$ = 13.5	40.94		6"
U_1-U_3	-656	-158	-814	2 ℓs 6×6×$\frac{7}{16}$ = 11.50 2 ℓs 6×6×$\frac{3}{8}$ = 14.22 1 Cov. Pl. 26×$\frac{1}{2}$ = 13.0 2 Web Pls 18×$\frac{5}{8}$ = 22.5 2 Bot. Pls 6×$\frac{3}{8}$ = 9.0	70.22		
U_3-U_5	-1058	-254	-1312	4 ℓs 8×6×$\frac{3}{8}$ = 39.76 1 Cov. Pl. 26×$\frac{1}{2}$ = 13.0 4 Web Pls 18×$\frac{5}{8}$ = 45. 2 Bot. Pls 6×$\frac{3}{8}$ = 9.0	106.76		6"
U_5-U_7	-1076	-258	-1334	4 ℓs 8×6×$\frac{3}{8}$ = 39.76 1 Cov. Pl. 26×$\frac{1}{2}$ = 13.0 4 Web Pls 18×$\frac{5}{8}$ = 45 2 Bot. Pls 6×$\frac{3}{8}$ = 9.0	106.76		
U_7-U_9	-702	-168	-870	2 ℓs 6×6×$\frac{7}{16}$ = 11.50 2 ℓs 6×6×$\frac{3}{8}$ = 14.22 1 Cov. Pl. 26×$\frac{1}{2}$ = 13.0 2 Web Pls 18×$\frac{3}{8}$ = 22.50 2 Bot. Pl. 6×$\frac{3}{8}$ = 9.0	70.22		
U_9-U_{10}			0	4 ℓs 6×4×$\frac{3}{8}$ = 14.44 1 Cov. Pl. 26×$\frac{1}{2}$ = 13.0 2 Web Pls 18×$\frac{3}{8}$ = 13.50	40.94		6"
L_0-L_2	+348	+84	+432	4 ℓs 6×4×$\frac{7}{16}$ = 16.72 2 Web Pls 18×$\frac{7}{16}$ = 18.0	34.72	28.7	6"
L_2-L_4	+888	+214	+1102	4 ℓs 6×6×$\frac{11}{16}$ = 31.12 4 Web Pls 18×$\frac{3}{8}$ = 54.0	85.12	70.6	
L_4-L_6	+1111	+263	+1374	4 ℓs 6×6×$\frac{11}{16}$ +31.12 4 Web Pls 18×$\frac{3}{8}$ = 54.0 2 Web Pls 5×$\frac{5}{16}$ = 6.88 2 Web Pls 16×$\frac{7}{16}$ = 14	106.00	87.5	
L_6-L_8	+929	+223	+1152	4 ℓs 6×6×$\frac{3}{8}$ = 33.76 4 Web Pls 18×$\frac{3}{8}$ = 54.0	87.76	72.8	
L_8-L_{10}	+389	+ 93	+482	4 ℓs 6×4×$\frac{5}{8}$ = 19.0 2 Web Pls 18×$\frac{1}{2}$ = 18	37.00	31.0	
U_1-L_0	-535	-132	-667	4 ℓs 6×6×$\frac{3}{8}$ = 33.76 4 Web Pls 16×$\frac{1}{2}$ = 32.	65.76		
U_1-L_2	+467	+116	+583	4 ℓs 6×4×$\frac{5}{8}$ = 23.44 2 Web Pls 16×$\frac{11}{16}$ = 22	45.44	37.7	
U_3-L_2	-343	- 94	-437	4 ℓs 6×4×$\frac{3}{8}$ = 23.44 2 Web Pls 16×$\frac{1}{2}$ = 16	39.44		
U_3-L_4	+247	+ 78	+325	4 ℓs 6×4×$\frac{3}{8}$ = 14.44 2 Web Pls 16×$\frac{3}{8}$ = 12	26.44	21.9	
U_5-L_4	-74	- 59	$\frac{-133}{+8}$	4 ℓs 5×3½×$\frac{3}{8}$ = 12.2 2 Web Pls 16×$\frac{3}{8}$ = 12	24.2		
U_5-L_6	-50	- 51	-101	4 ℓs 5×3½×$\frac{3}{8}$ = 12.2 2 Web Pls 16×$\frac{3}{8}$ = 12	24.2		
U_7-L_6	+202	+ 77	+279	4 ℓs 5×3½×$\frac{3}{8}$ = 12.2 2 Web Pls 16×$\frac{3}{8}$ = 12	24.2	18.9	
U_7-L_8	-337	- 93	-430	4 ℓs 6×4×$\frac{3}{8}$ = 23.44 2 Web Pls 16×$\frac{1}{2}$ = 16	39.44		
U_9-L_8	+441	+112	+553	4 ℓs 6×4×$\frac{3}{8}$ = 23.44 2 Web Pls 16×$\frac{5}{8}$ = 20	43.44	35.9	
U_9-L_{10}	-584	- 141	-725	4 ℓs 6×6×$\frac{3}{8}$ = 33.76 4 Web Pls 16×$\frac{11}{16}$ = 36	69.76		
U_{10}-L_{10}	-45	$\frac{-51}{\text{wind } +110}$	-96	2-12" ℄s 30# – for all verticals	17.58		
U_1-L_1	0		0	U_3-L_3; U_5-L_5; U_7-L_7 Same	17.58		
U_1-L_2	90	62	-152	2-12" ℄s 30#	17.58		
U_7-L_6	90	62	-152	U_6-L_6; U_8-L_8 Same	17.58		

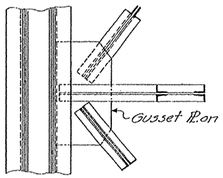
+=Tension
−=Compression



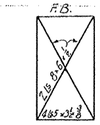
SECTION C-C



SECTION A-A



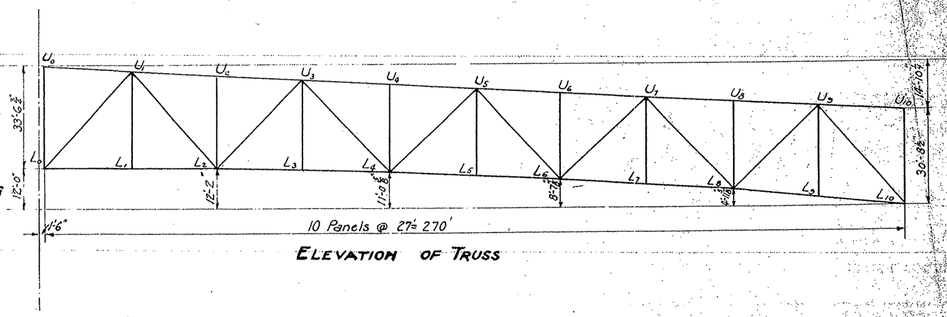
SECTION B-B



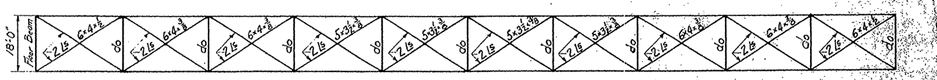
END BRACING
PANELS 0 AND 10



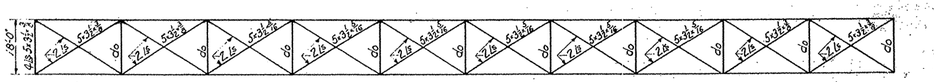
INTERMEDIATE BRACING
PANELS 1-9
Scale 1"=20'



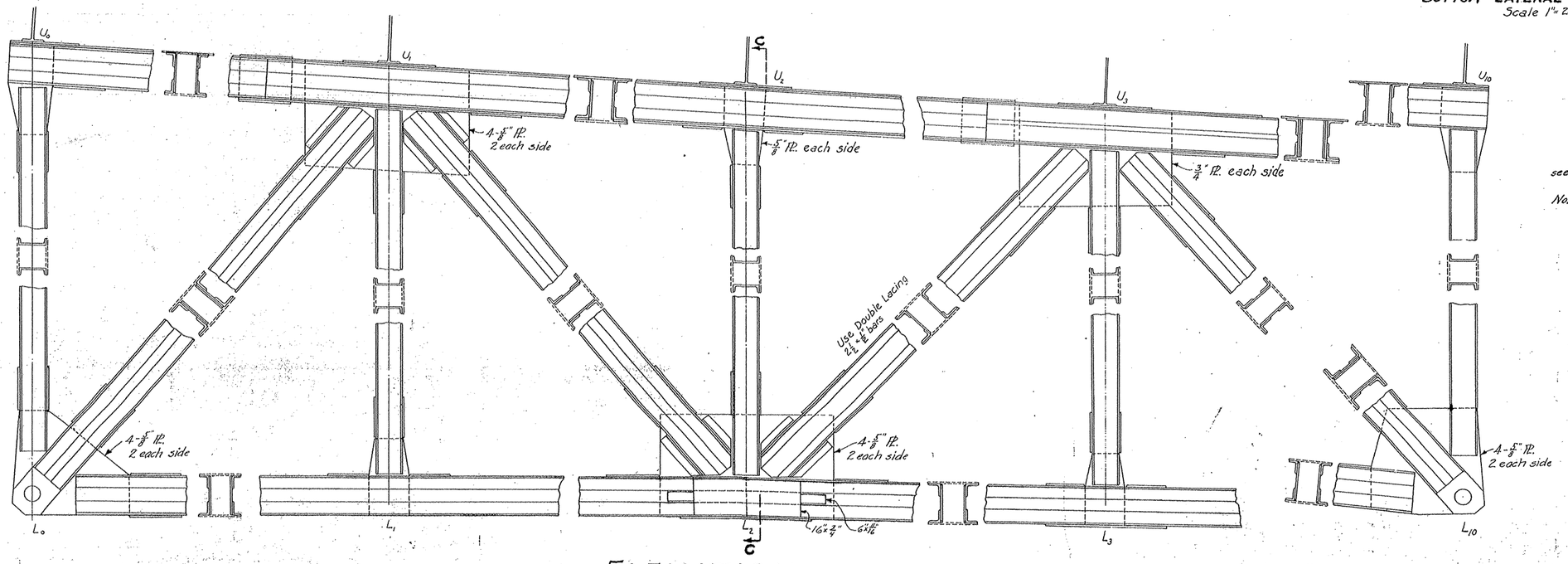
ELEVATION OF TRUSS



TOP LATERAL BRACING



BOTTOM LATERAL BRACING
Scale 1"=20'



ELEVATION

Notes

Rivets ⅞" ϕ
Clear distance between web plates of chord members 9½"
Double lacing 2½"×½" bars for all but verticals.
Single lacing 2½"×½" bars for verticals.
Tie Plates ⅜"

For General Plan and Elevation of Superstructure see Sheet No. 9.
For Floor Sections and Floor Details see Sheet's Nos. 13 and 14.
For Bearings see Sheets Nos. 19 and 20.

LAKE CHAMPLAIN BRIDGE COMMISSION

Mortimer Y. Ferris, Chairman	George Z. Thompson, Vice Chairman
Albert E. Phelps, Secretary	Charles E. Schoff, Treasurer
Marion L. Thomas	William R. Warner

LAKE CHAMPLAIN BRIDGE COMMISSION
NEW YORK — VERMONT
LAKE CHAMPLAIN BRIDGE

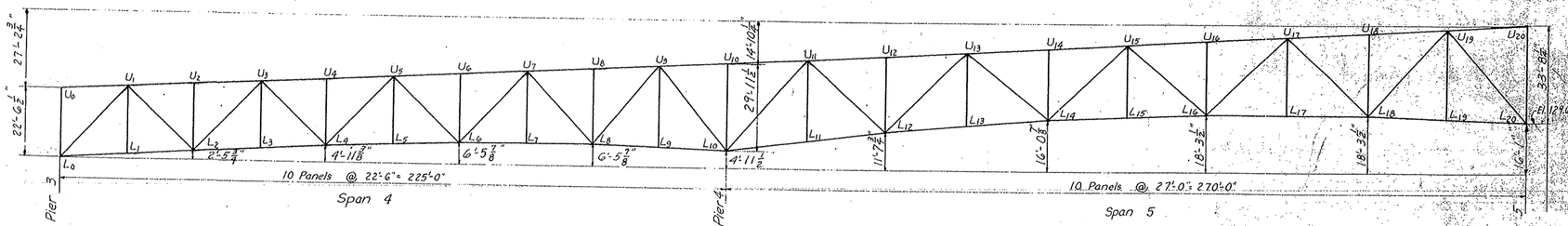
TRUSSES AND BRACING SPAN 9

Scales ½"=1'-0" except as noted — March 1928
FAY, SPOFFORD & THORNDIKE, ENGINEERS, BOSTON, MASS.

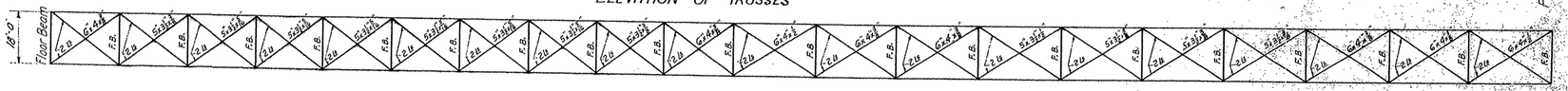
DES. L.B.T. DR. L.B.T.	TR. E.W. CHK. H.G.W.	FILE NO. VI-8
APPROVED Charles W. Spofford		PLAN NO. 35

CONTRACT DRAWINGS — SHEET NO. 15

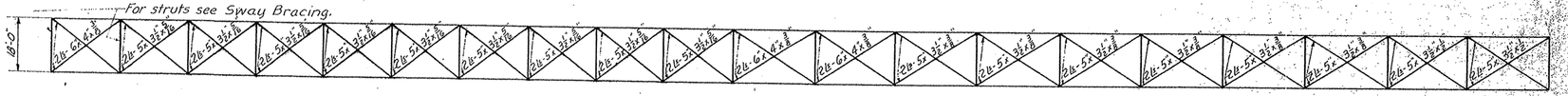
MEMBER	STRESS IN KIPS DEAD	LIVE Including Impact	TOTAL	SECTION	AREA GROSS	AREA NET	ASSEMBLY
U_0-U_1				2Lь-4×4×⅞ = 5.7″ 2Lь-5×3½×⅞ = 6.1″ 1Cov.Pl. 20×⅞ = 7.5″ 2 Web Pls. 15×⅞ = 11.2″ 2 Bot. Pls. 5×⅞ = 3.75″	34.3″		
U_1-U_3	-288	-127	-415	2Lь-4×4×⅞ = 5.7″ sq.in. 2Lь-5×3½×⅞ = 6.1″ 1Cov.Pl. 20×⅞ = 7.5″ 2 Web Pls. 15×⅞ = 13.1″ 2 Bot. Pl. 5×⅝ = 3.8″	36.2″		
U_3-U_5	-320	-172	-492	2Lь-4×4×⅞ = 5.72″ 2Lь-5×3½×⅞ = 6.1″ 1Cov.Pl. 20×⅞ = 7.5″ 2 Web Pls. 15×½ = 15.″ 2 Bot. Pl. 5×½ = 5″	39.3″		
U_5-U_7	- 91	+88 -143	- 3 -234	2Lь-4×4×⅞ = 5.7″ 2Lь-6×4×⅞ = 7.2″ 1Cov.Pl. 20×⅞ = 7.5″ 2 Web Pl. 15×⅝ = 11.25″ 2 Bot. Pl. 5×⅜ = 3.8″	35.4″		
U_7-U_9	+344	+105	+449	2Lь-4×4×⅞ = 5.7″ 2Lь-6×4×⅝ = 7.2″ 1Cov.Pl. 20×⅞ = 7.5″ 2 Web Pl. 15×⅝ = 11.25″ 2 Bot. Pl. 6×¾ = 4.5″	36.2″	29.3	
U_9-U_{11}	+863	+196	+1059	2Lь-6×6×½ = 11.5″ 2Lь-6×6×⅝ = 14.22″ 4 Web Pl. 15×⅜ 1 Cov.Pl. 24×½ = 12″ 2 Bot. Pl. 6×¾ = 9″	80.4″	66.7	
U_{11}-U_{13}	+ 91	+106 - 84	+197 + 7	4Lь-6×6×⅝ = 17.44″ 2 Web Pl. 15×¾ = 11.25″ 1 Cov. Pl. 24×½ = 12″ 2 Bot. Pl. 6×⅝ = 4.5″	45.2″	38.1	
U_{13}-U_{15}	-492	-208	-700	2Lь-6×6×½ = 11.5″ 2Lь-6×6×⅝ = 14.22″ 2 Web Pl. 15×⅜ = 13.1″ 1 Cov. Pl. 24×½ = 12″ 2 Bot. Pl. 6×½ = 6″	56.8″		
U_{15}-U_{17}	-683	-230	-913	2Lь-6×6×⅝ = 15.56″ 2Lь-6×6×⅝ = 16.89″ 1Cov.Pl. 24×½ = 12 2 Web Pl. 15×⅝ = 20.60″ 2 Bot. Pls. 6×¾ = 9″	74.0″		
U_{17}-U_{19}	-471	-148	-619	2Lь-6×6×⅝ = 9.19″ 2Lь-6×6×⅝ = 2.86″ 2 Web Pl. 15×⅝ 1 Cov. Pl. 24×½ = 12 2 Bot. Pl. 6×¾ = 9″	52.6″		
U_{19}-U_{20}				4Lь-6×6×⅝ = 17.44″ 2 Web Pl. 15×¾ = 11.25″ 1 Cov. Pl. 24×½ = 12″ 2 Bot. Pl. 6×¾ = 4.5″	45.2″		
L_0-L_2	+176	74	+250	4Lь-5×3½×⅞ = 12.20″ 2 Web Pl. 15×⅝ = 11.25″	23.5″	19.0″	
L_2-L_4	+336	+ 160	+496	4Lь-5×3½×11/16 = 21.48″ 2 Web Pl. 15×⅝ = 18.75″	40.2″	32.2″	
L_4-L_6	+238	+ 165	+403	4Lь-5×3½×¾ = 17.88″ 2 Pl. - 15×⅜ = 16.9″	34.8″	28.0″	
L_6-L_8	-119	- 96	-215	4Lь-5×3½×⅞ = 12.28″ 2 Web Pl. 15×⅝ = 11.25″	23.5″		
L_8-L_{10}	-594	-142	-736	4Lь-6×4×⅞ = 23.44″ 4 Web Pl. 15×⅝ = 37.50″	60.9″		
L_{10}-L_{12}	-456	-129	-585	4Lь-6×4×11/16 = 25.6″ 2 Web Pl. 15×⅝ = 22.5″	48.1″		
L_{12}-L_{14}	+235	+154	+389	4Ls-6×4×¾ = 16.72″ 2 Web Pl. 15×½ = 13.1″	29.8″	24.4″	
L_{14}-L_{16}	+635	+217	+852	4Lь-6×6×¾ = 31.12″ 4 Web Pl. 15×⅝ = 33.75″	64.9″	54.9″	
L_{16}-L_{18}	+617	+199	+816	4Lь-6×6×11/16 = 31.12″ 4 Web Pl. 15×½ = 30″	61.1″	51.6″	
L_{18}-L_{20}	+251	+ 77	+328	4Lь-5×3½×11/16 = 14.12″ 2 Web Pl. 15×11/16 = 13.1″	27.2″	22.0″	
U_0-L_0	-256	-108	-364	4Lь-5×3½×11/16 = 16.00″ 2 Pl. 15×⅜ = 16.9″	32.9″		
U_1-L_2	+154	+ 81	+235	4Lь-5×3½×⅞ = 12.2″ 2 Pl. 15×⅜ = 11.25″	23.5″	19.0″	
U_3-L_2	- 70	- 67	-137	4Lь-3½×3½×⅝ = 9.92″ 2 Pl. - 15×⅜ = 11.25″	21.2″		
U_3-L_4	- 24	+ 47 = 45	+ 23 = 69	4Lь-3½×3½×⅝ = 9.92″ 2 Pl. - 15×⅜ = 11.25″	21.2″	16.8″	
U_5-L_4	+117	+ 62	+179	4Lь-3½×3½×⅝ = 9.92″ 2 Pl. - 15×⅜ = 11.25″	21.2″	16.8″	
U_5-L_6	-198	- 74	- 272	4Lь-5×3½×11/16 = 14.12″ 2 Pl. - 15×½ = 13.12″	27.2″		
U_7-L_6	+294	+ 95	+ 389	4Lь-5×3½×½ = 16.0″ 2 Pl. - 15×½ = 15.0″	31.0″	25.0″	
U_7-L_8	-341	-103	- 444	4Lь-5×3½×¾ = 19.68″ 2 Pl. - 15×11/16 = 20.62″	40.3″		
U_9-L_8	+393	+113	+ 506	4Lь-5×3½×⅝ = 19.68 2 Pl. - 16×⅝ = 20″	39.7″	32.2″	
U_9-L_{10}	-443	-119	-562	4Lь-5×3½×11/16 = 21.48″ 4 Pl. - 17×11/16 = 29.75″	51.2″		
U_{11}-L_{10}	-620	-153	- 773	4Lь-6×6×½ = 33.76″ 4 Pl. - 18×11/16 = 40.50″	74.3″		
U_{11}-L_{12}	+498	+128	+626	4Lь-6×6×11/16 = 31.12 2 Web Pl. 15×⅝ = 18.75″	49.9″	41.9″	
U_{13}-L_{12}	-465	-126	- 591	4Lь-6×6×6×½ = 33.76 2 Pl. - 16×11/16 = 22	55.8″		
U_{13}-L_{14}	+332	+ 99	+ 431	4Lь-6×4×½ = 19.″ 2 Pl. - 15×½ = 15″	34.0″	28.0″	
U_{15}-L_{14}	-195	- 79	- 274	4Lь-5×3½×½ = 16.0″ 2 Pl. - 15×⅝ = 11.25″	27.2″		
U_{15}-L_{16}	+ 73	+ 60	+133	4Lь-3½×3½×⅝ = 9.92″ 2 Pl. - 15×⅝ = 11.25″	21.2″	16.8″	
U_{17}-L_{16}	+ 95	+ 74	+169	4Lь-3½×3½×⅝ = 9.92″ 2 Pl. - 15×⅝ = 11.25″	21.2″	16.8″	
U_{17}-L_{18}	-201	- 87	- 288	4Lь-5×3½×½ = 16.00″ 2 Pl. - 15×½ = 15.00″	31.0″		
U_{19}-L_{18}	+325	+110	+435	4Lь-5×3½×¾ = 19.68″ 2 Pl. - 15×⅝ = 16.9″	36.6″	29.6″	
U_{19}-L_{20}	-387	-119.1	-506	4Ls-6×4×⅝ = 22.76″ 2 Pl. - 15×11/16 = 20.6″	48.4″		
U_0-L_0	- 33 Wind	- 24 -58	- 57	2-12″ B 30″ same section for all verticals except U_0L_0	17.6″		
U_1-L_1				U_3-L_3, U_5-L_5, U_7-L_7, U_9-L_9, U_{11}-L_{11}, U_{13}-L_{13}, U_{15}-L_{15}, U_{17}-L_{17}, U_{19}-L_{19}			
U_2-L_2	- 65	- 47	-112	U_2-L_1, U_2-L_3, U_0-L_0 Same			
U_{10}-L_{10}	- 75 Wind	- 49 -169	-124	2-15″ B 40″	23.4″		
U_{12}-L_{12}	- 85	- 50	-135	U_{14}-L_{13}, U_{16}-L_{16}, U_{18}-L_{18} Same			
U_{20}-L_{20}	- 43 Wind	- 25 +101	- 68				



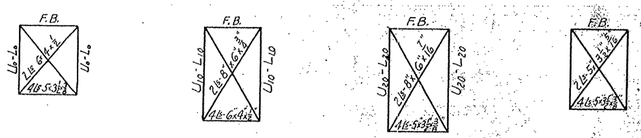
ELEVATION OF TRUSSES



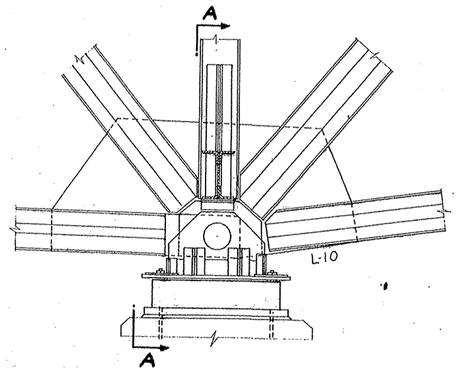
TOP LATERAL BRACING



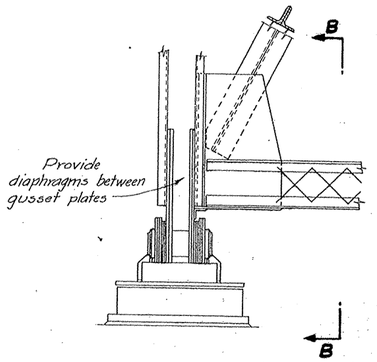
BOTTOM LATERAL BRACING
Scale 1" = 20'



SWAY BRACING
Scale 1" = 20'



SECTION B-B



SECTION A-A

DETAIL AT PIER 4
Scale ½ = 1'-0"

Notes

Details of trusses, bracing and connections similar to span 9 except as otherwise shown.
Rivets ⅞ ϕ
Clear distance between web plates of chord members 9½″
Double lacing 2½″ × ½″ bars for all but verticals.
Single lacing 2½″ × ½″ bars on verticals.
Tie Plates ⅜″

For General Plan and Elevation of superstructure see Sheet No. 9.
For Floor Sections and Floor Details see Sheets Nos. 13 and 14.
For Bearings see Sheets Nos. 19 and 20.

LAKE CHAMPLAIN BRIDGE COMMISSION

Mortimer Y. Ferris, Chairman	George Z. Thompson, Vice Chairman
Albert E. Phelps, Secretary	Charles E. Schoff, Treasurer
Marion L. Thomas	William R. Warner

LAKE CHAMPLAIN BRIDGE COMMISSION
NEW YORK — VERMONT
LAKE CHAMPLAIN BRIDGE

TRUSSES AND BRACING SPANS 4 AND 5

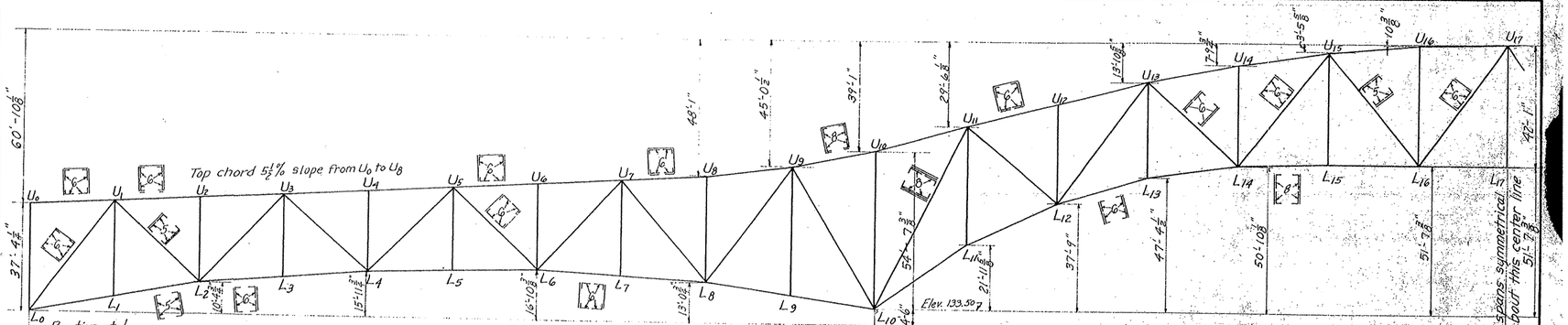
Scales as noted — March 1928

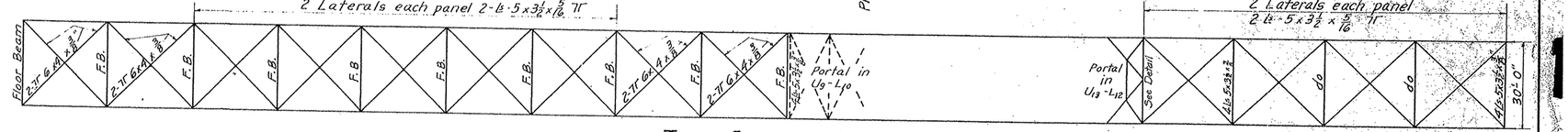
FAY, SPOFFORD & THORNDIKE, ENGINEERS, BOSTON, MASS.

DES. L.B.T. DR. L.B.T.	TR. L.W.J. CHK. H.Williams	FILE NO. V1-8
APPROVED Charles M. Spofford		PLAN NO. 36

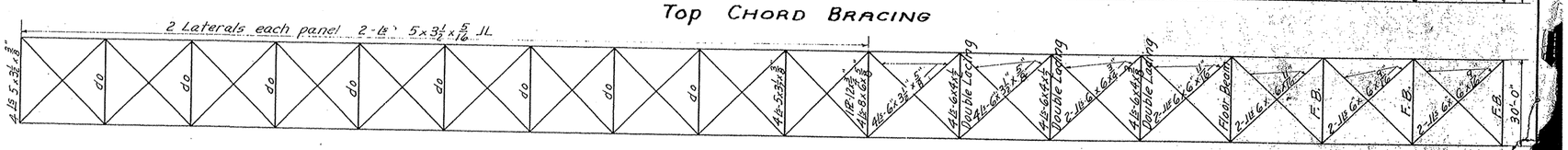
CONTRACT DRAWINGS — SHEET NO. 16

Member	Stresses in Kips. Dead	Live and Impact	Total	Erection	SECTION		Area Gross	Net
U_0-U_1					4 Lb - 6 × 4 × ⅞ = 14.44	2 Web Pl. 20 × 7/16 = 17.5	39.4	33.9
					1 Cov Pl. 20 × ⅞ = 7.50			
U_1-U_3	-335	-148	-483	-5/+46	4 Lb - 6 × 4 × ⅞ = 14.44	2 Web Pl. 20 × ⅞ = 15.00	42.9	
					1 Cov Pl. 20 × ⅞ = 7.50	2 Bott Pls. 4 × ¾ = 6.00		
U_3-U_5	-346	-223	-569	+238	4 Lb - 6 × 4 × ⅞ = 14.44	2 Web Pl. 20 × ½ = 20.00	47.9	
					1 Cov Pl. 20 × ⅞ = 7.50	2 Bott Pl. 4 × ¾ = 6.00		
U_5-U_7	+ 29	+ 147 / - 178	+ 176 / - 149	+526	4 Lb - 6 × 4 × ⅞ = 14.44	2 Web Pl. 20 × 7/16 = 17.50	39.4	33.9
	Wind Stress	± 129 / 123			1 Cov Pl. 20 × ⅞ = 7.50			
U_7-U_8	+595	+169	+764	+802	4 Lb - 6 × 4 × ⅝ = 23.44	2 Web Pl. 20 × ½ = 20.00	58.4	48.9
U_8-U_9					1 Cov Pl. 20 × ⅝ = 7.50	2 Bott Pl. 6 × ⅜ = 7.50		
U_9-U_{10}	+1020	+ 217	+1237	+904	4 Lb - 8 × 6 × ½ = 27.00	4 Web Pl. 20 × ⅝ = 50.00	92.0	81.0
$U_{10}-U_{11}$					1 Cov. Pl. 20 × ⅝ = 7.50	2 Bott. Pl. 6 × ⅝ = 7.50		
$U_{11}-U_{13}$	+419	+142	+561	+760	4 Lb - 6 × 4 × ⅝ = 14.44	2 Web Pl. 20 × 7/16 = 17.50	44.7	38.3
					1 Cov Pl. 20 × ¾ = 7.50	2 Bott Pl. 6 × 5/16 = 5.25		
$U_{13}-U_{14}$	-319	- 191	- 510	+297	4 Lb - 6 × 4 × ⅞ = 14.44	2 Web Pl. 20 × 7/16 = 17.50	44.7	
$U_{14}-U_{15}$					1 Cov. Pl. 20 × ⅜ = 7.50	2 Bott. Pl. 6 × 5/16 = 5.25		
$U_{15}-U_{16}$	-568	-228	-796	+33	4 Lb - 6 × 4 × 1/2 = 19.00	2 Web Pl. 20 × 11/16 = 27.5	65.5	
$U_{16}-U_{17}$					1 Cov. Pl. 20 × ½ = 10.00	2 Bott. Pl. 6 × ¾ = 9.00		
L_0-L_2	+188	+ 79	+267	+17/16	4 Lb - 5 × 3½ × ⅝ = 12.20	2 Web Pl. 20 × 7/16 = 17.5	29.7	24.9
L_2-L_4	+387	+ 199	+ 586	-121	4 Lb - 6 × 4 × ½ = 19.00	2 Web Pl. 20 × 11/16 = 27.5	46.5	39.7
L_4-L_6	+197	+229	+426	-371	4 Lb - 6 × 4 × 7/16 = 16.72	2 Web Pl. 20 × 7/16 = 17.5	34.2	29.0
L_6-L_8	-296	-155	-451	-658	4 Lb - 6 × 4 × ½ = 19.00	2 Web Pl. 20 × ½ = 20.00	39.0	
L_8-L_{10}	-823	-189	- 1012	-857	4 Lb - 6 × 6 × ⅝ = 33.76	4 Web Pl. 20 × ⅝ = 50.00	83.8	
$L_{10}-L_{11}$	-972	- 227	-1199	-1058	4 Lb - 8 × 6 × ⅝ = 39.76	4 Web Pl. 24 × ⅝ = 60.00	99.8	
$L_{11}-L_{12}$	-876	- 204	-1080	-954	4 Lb - 6 × 6 × ½ = 33.76	4 Web Pl. 24 × ⅝ = 60.00	93.8	
	Wind Stress	-382						
$L_{12}-L_{13}$	+ 4	+ 135 / - 120	+ 139 / - 116	-541	4 Lb - 6 × 4 × ⅝ = 23.44	2 Web Pl. 24 × ½ = 24.00	47.4	41.7
	Wind Stress	± 382 / 415						
$L_{13}-L_{14}$	+ 4	+ 130 / - 113	+ 134 / - 113	-523	4 Lb - 6 × 4 × ⅝ = 23.44	2 Web Pl. 24 × ½ = 24.00	47.4	41.7
	Wind Stress	± 415 / 548						
$L_{14}-L_{16}$	+479	+214	+693	-123	4 Lb - 8 × 6 × 11/16 = 36.60	2 Web Pl. 24 × ¾ = 36.00	72.6	64.1
	Wind Stress	+ 600 / - 630						
$L_{16}-L_{17}$	+590	+231	+821		4 Lb - 8 × 6 × ¾ = 39.76	2 Web Pl. 24 × ⅝ = 42.0	81.8	72.5
	Wind Stress	+ 830 / - 820						
U_1-L_0	-308	-129	-437		4 Lb - 6 × 4 × 7/16 = 21.24	2 Web Pl. 20 × ½ = 20.0	41.2	
U_1-L_2	+200	+106	+306		4 Lb - 5 × 3½ × ⅝ = 12.20	2 Web Pl. 18 × ⅜ = 13.50	25.7	21.2
U_2-L_2	- 80	- 89	-169		"	"	25.7	
U_3-L_4	- 48	- 62 / + 64	- 110 / + 16		"	"	25.7	21.2
U_5-L_4	+212	+86	+298		"	"	25.7	21.2
U_5-L_6	-308	- 99	- 407		4 Lb - 6 × 4 × ½ = 19.00	2 Web Pl. 18 × ½ = 18.00	37.0	
U_7-L_6	+395	+112	+507		4 Lb - 6 × 4 × ½ = 19.00	2 Web Pl. 18 × 5/8 = 22.5	41.5	35.0
U_7-L_8	-460	-118	-578		4 Lb - 6 × 6 × ⅝ = 28.44	2 Web Pl. 20 × ⅝ = 25.0	53.4	
U_9-L_8	+382	+123	+ 505		4 Lb - 6 × 4 × ½ = 19.00	2 Web Pl. 20 × ½ = 20.0	39.0	33.0
U_9-L_{10}	-340	-115	-455		4 Lb - 6 × 4 × ½ = 19.00	2 Web Pl. 20 × ⅝ = 25.0	44.0	
$U_{11}-L_{10}$	-440	-155	-595		4 Lb - 8 × 6 × 11/16 = 36.60	2 Web Pl. 24 × ½ = 24.0	60.6	
$U_{11}-L_{12}$	+476	+133	+ 609		4 Lb - 8 × 6 × 7/16 = 23.72	2 Web Pl. 24 × 7/16 = 21.0	44.7	38.4
$U_{13}-L_{12}$	-690	-184	-874		4 Lb - 6 × 6 × ⅝ = 33.76	4 Web Pl. 24 × ⅝ = 48.0	81.8	
$U_{13}-L_{14}$	+428	+124	+552		4 Lb - 6 × 4 × ½ = 19.00	2 Web Pl. 20 × 9/16 = 22.5	41.5	35.2
$U_{15}-L_{14}$	-270	- 102	- 372		4 Lb - 6 × 4 × ½ = 19.00	2 Web Pl. 20 × ½ = 20.0	39.0	
$U_{15}-L_{16}$	+145	+ 80	+225		4 Lb - 5 × 3½ × ⅝ = 12.20	2 Web Pl. 18 × ⅜ = 13.5	25.7	21.2
$U_{17}-L_{16}$	- 50	- 68 / + 18	- 118		4 Lb - 6 × 4 × ⅝ = 14.44	2 Web Pl. 18 × 7/16 = 15.75	30.2	
U_0-L_0	- 36	-52	- 88		4 Lb - 7 × 3½ × ½ = 20.00		20.0	
	Wind Stress	- 82						
U_1-L_1					4 Lb - 7 × 3½ × ½ = 20.00		20.0	
U_3-L_3	U_5-L_5	U_7-L_7	U_9-L_9	$U_{11}-L_{11}$	$U_{16}-L_{16}$ same as	U_1-L_1	20.0	
U_2-L_2	- 76	- 64	-140		4 Lb - 7 × 3½ × ½ = 20.0		20.0	
U_4-L_4	U_6-L_6	U_8-L_8	same	as U_6-L_2			20.0	
U_0-L_{10}	TOP + 65 BOT - 42	+ 14 - 65	+ 79 - 107		2 - 15" ⌀ @ 33.9 = 19.8		19.8	
$U_{11}-L_{11}$	-200	- 42	- 242		4 Lb - 8 × 3½ × ½ = 22.0		22.0	
U_2-L_{12}	-122	- 66	- 188		4 Lb - 7 × 3½ × ½ = 20.0		20.0	
$U_{13}-L_{13}$	$U_{15}-L_{15}$	$U_{17}-L_{17}$	same	as	$U_{12}-L_{12}$		20.0	

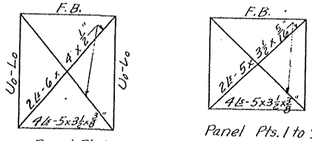


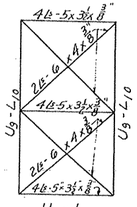


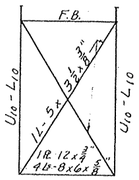
TOP CHORD BRACING

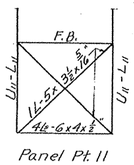


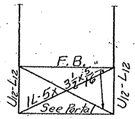
BOTTOM CHORD BRACING

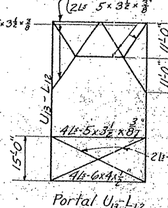


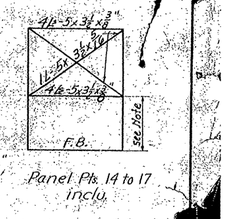












SWAY BRACING

Notes:–

Chord members to be straight between dimensions given.

Where consistent with shipping requirements two panel lengths of chord members shall be either fabricated as one member or shop riveted together.

Rivets ⅞" ⌀

Dimension out to out of webs of all chord members 1'-8"

Sway Bracing over roadway shall leave a clear headroom of 14 ft. above crown of roadway

For General Plan and Elevation of Superstructure see Sheet No. 9.

For Floor Sections and Floor Details see Sheets Nos. 13 and 14.

For Typical Truss Details of Spans 6, 7 and 8 see Sheet No. 18.

For Bearings see Sheets Nos. 19 and 20.

LAKE CHAMPLAIN BRIDGE COMMISSION

Mortimer Y. Ferris, Chairman	George Z. Thompson, Vice Chairman
Albert E. Phelps, Secretary	Charles E. Schoff, Treasurer
Marion L. Thomas	William R. Warner

LAKE CHAMPLAIN BRIDGE COMMISSION
NEW YORK — VERMONT
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TRUSSES AND BRACING SPANS 6, 7 AND 8

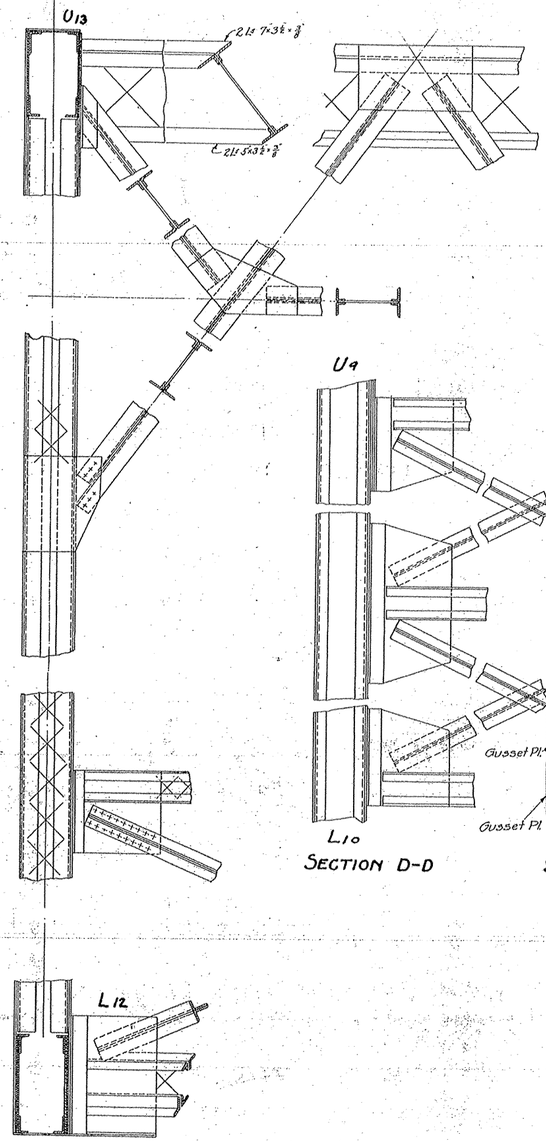
Scale: 1" = 20' March 1928

FAY, SPOFFORD & THORNDIKE, ENGINEERS, BOSTON, MASS.

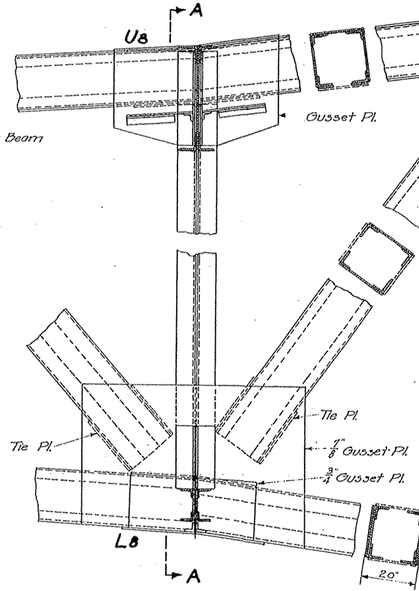
DES. RR. HWD. DR. RR. V. TR. L.W.J. CHK. H.G.Williams FILE NO. VI-8

APPROVED Charles M. Spofford PLAN NO. 37

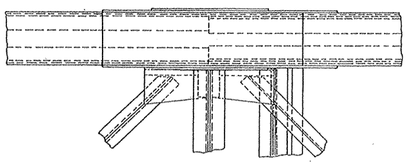
CONTRACT DRAWINGS SHEET No. 17



ELEVATION OF PORTAL U_{13}-L_{12}

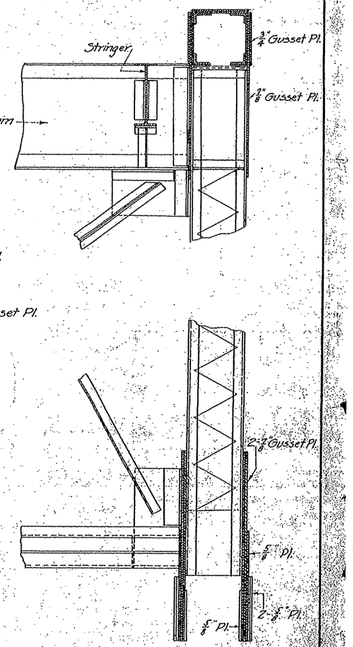


SECTION D-D SECTION A-A



SECTION C-C

ELEVATION



SECTION B-B

Notes

Where consistent with shipping and erection requirements two panel lengths of chord members shall be either fabricated as one member or shop riveted together.

Rivets ⅞" ϕ

Dimensions out to out of webs of all chord members 1'-8"

Double lacing 2½"×½" for all but verticals.

Single lacing 2½"×½" for verticals.

For stresses and materials of Trusses and Bracing of Spans 6-7 and 8 see Sheet No. 17.
For Floor Sections and Floor Details see Sheets Nos. 13 and 14.
For Bearings see Sheets Nos. 19 and 20.

LAKE CHAMPLAIN BRIDGE COMMISSION

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Marion L. Thomas	William R. Warner

LAKE CHAMPLAIN BRIDGE COMMISSION
NEW YORK — VERMONT

LAKE CHAMPLAIN BRIDGE

TYPICAL TRUSS DETAILS SPANS 6, 7 AND 8

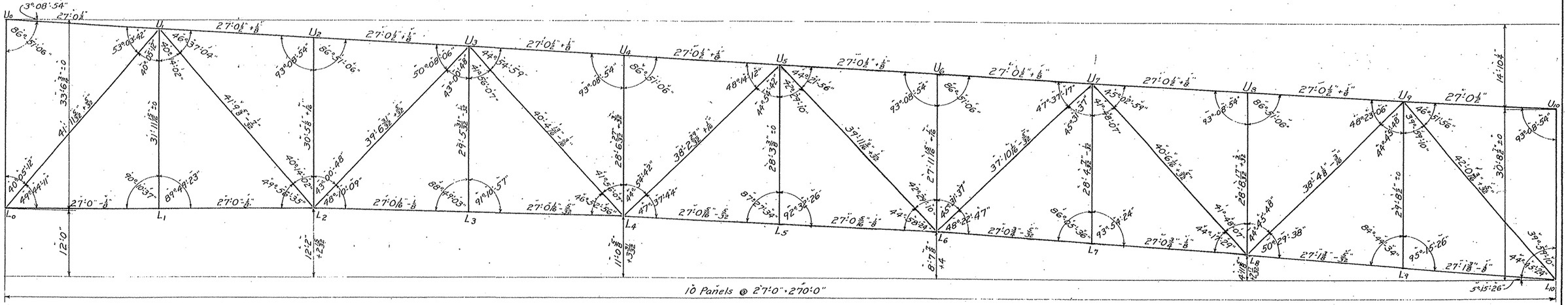
Scale ½" = 1'-0" March 1928

FAY, SPOFFORD & THORNDIKE, ENGINEERS, BOSTON, MASS.

DES. and Syst. DR. R.A. TR. E.H.B. CHK. H.W. FILE No. VI-8

APPROVED: Charles M. Spofford PLAN No. 38

CONTRACT DRAWINGS SHEET No. 18



SPAN No. 9

LAKE CHAMPLAIN BRIDGE COMMISSION
NEW YORK — VERMONT

LAKE CHAMPLAIN BRIDGE

SPAN 9

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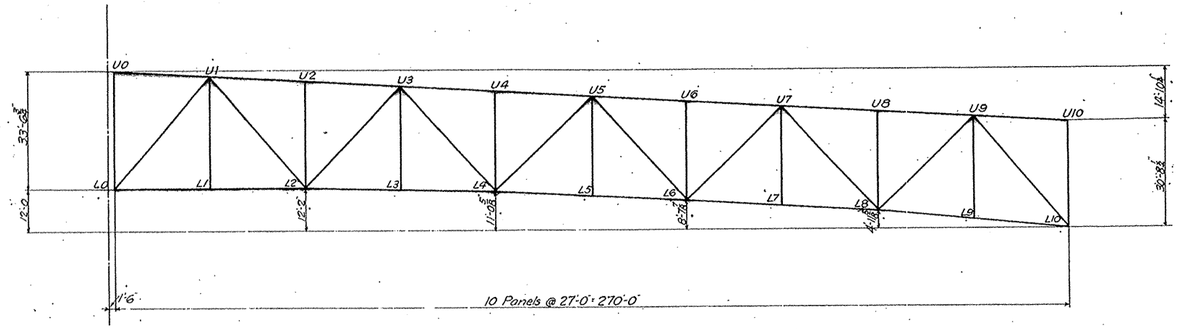
DRAWINGS MADE AT Elmira PLANT.
WORK FABRICATED AT Elmira PLANT.
IN CHARGE OF Beebe
DRAW. MADE BY K.E.K. DATE 6-5-28.
DRAW. CHECKED BY ZM. DATE 6-27-28.

ORDER No. F3133

SHEET NO. D1

STEEL SCHEDULE

MEMBER	STRESSES IN KIPS DEAD	LIVE (Incl. Imp)	TOTAL	SECTION	RAD. GYR.	AREA GROSS	AREA NET	ASSEMBLY	LACING
U0-U1				4-L 5-6×4×⅞ = 14.44. 1-Cov. 26×½ = 13.0 2-Webs 18×⅝ = 13.5		40.94		06	D.L. 5×½ 2-Rivets.
U1-U3	-656	-158	-814	Cov. 26×½ = 13.0 2-Web 18×¾ = 27.0 2-L 6×6×⅞ = 14.2 2-L 6×6×¾ = 16.9	7.05	71.1		6×144	
U3-U5	-1058	-254	-1312	Cov. 26×⅞ = 16.3 2-Web 18×¾ = 27.0 4-L 8×6×½ = 39.8 2- " 18×11/16 = 24.8	6.55	107.9		6×146	
U5-U7	-1076	-258	-1334	Cov. 26×⅞ = 16.3 2-Web 18×¾ = 27.0 4-L 8×6×¾ = 39.8 2- " 18×11/16 = 24.8	6.55	107.9			
U7-U9	-702	-168	-870	Cov. 26×½ = 13.0 2-Web 18×¾ = 27.0 2-L 6×6×⅝ = 14.2 2-L 6×6×¾ = 16.9	7.05	71.1		6×144	
U9-U10			0	4-L 5-6×4×⅞ = 14.44. 1-Cov. 26×½ = 13.0 2-Webs 18×⅜ = 13.5		40.94		06	D.L. 5×½ 2-Rivets.
L0-L2	+348	+84	+432	2-18 W 58#		34.0	29.8		
L2-L4	+838	+214	+1102	4-L 6×6×11/16 = 31.12 4-Web 18×¾ = 54.0		85.12	70.6		D.L 2½×½ 1-Rivet
L4-L6	+1111	+263	+1374	4-L 6×6×11/16 = 31.12 4-Web 18×¾ = 54.0 2-Web 5×⅞ = 6.88 2-Web 16×7/16 = 14.0		106.0	87.5		
L6-L8	+929	+223	+1152	4-L 6×6×¾ = 33.76 4-Webs 18×¾ = 54.0		87.76	72.8		
L8-L10	+389	+93	+482	2-18 W 42.7# = 25.0 = 20.7 2-17½×⅜ = 13.1 = 11.6		38.1	32.5		
U1-L0	-535	-132	-667	4-L 6×6×7/16 = 31.1 4-18×⅞ = 31.6		62.7			D.L. 5×½ 2-Rivets
U1-L2	+987	+116	+1583	2-18 W 42.7# = 25.0 = 20.7 2-17½×⅜ = 19.7 = 17.4		44.7	37.1		D.L 2½×½ 1-Rivet.
U3-L2	-343	-94	-437	2-18 W 45.8 = 20.8 2-17½×⅜ = 13.1	6.09	39.9			
U3-L4	+247	+78	+325	2-15 W 40#		23.4	20.9		
U5-L4	-74	-59	-133 / 8	2-15 W 35#	5.62	20.5			
U5-L6	-50	-51	-101	2-15 W 35#	5.62	20.5			
U7-L6	+202	+77	+279	2-15 W 35#		20.5	18.0		
U7-L8	-337	-93	-430	2-18 W 45.8# = 26.8 2-17½×⅜ = 13.1	6.09	39.9			
U9-L8	+141	+112	+553	2-18 W 45.8 = 20.8 22.3 2-17½×⅜ = 1		42.1	35.9		
U9-L10	-584	-141	-725	4-L 6×6×⅞ = 33.8 4-18×⅜ = 36.0		69.8			D.L. 5×½ 2-Rivets.
U0-L0 U10-L10	-45	-51 W = 110	-96	2-12 ⊔ 30#		17.6			S.L 2½×½ 1-Rivet.
U1-L1	0		0	2-12 ⊔ 25# U3-L3, U5-L5, U7-L7, U9-L8 Same.		14.6			
U2-L2	90	62	152	2-12 ⊔ 30# U4-L4, U6-L6, U8-L8 Same.		17.6			
U4-L4	90	62	152	2-12 ⊔ 30#		17.6			



Span No. 9

ELEVATION OF TRUSS

LAKE CHAMPLAIN BRIDGE COMMISSION
NEW YORK --- VERMONT

LAKE CHAMPLAIN BRIDGE

Span No. 9
Stress Sheet

MUN. CO.
AMERICAN BRIDGE COMPANY.

DRAWINGS MADE AT: Elmira ..... PLANT.
WORK FABRICATED AT ..... PLANT.
IN CHARGE OF R.C. Beebe.
DRAW. MADE BY R.A.H. DATE 6-23-28.
DRAW. CHECKED BY ..... DATE .....

ORDER No. F3133 | SHEET NO. D2

Replace with EXH44R and drill holes in field in H31 to fit new post

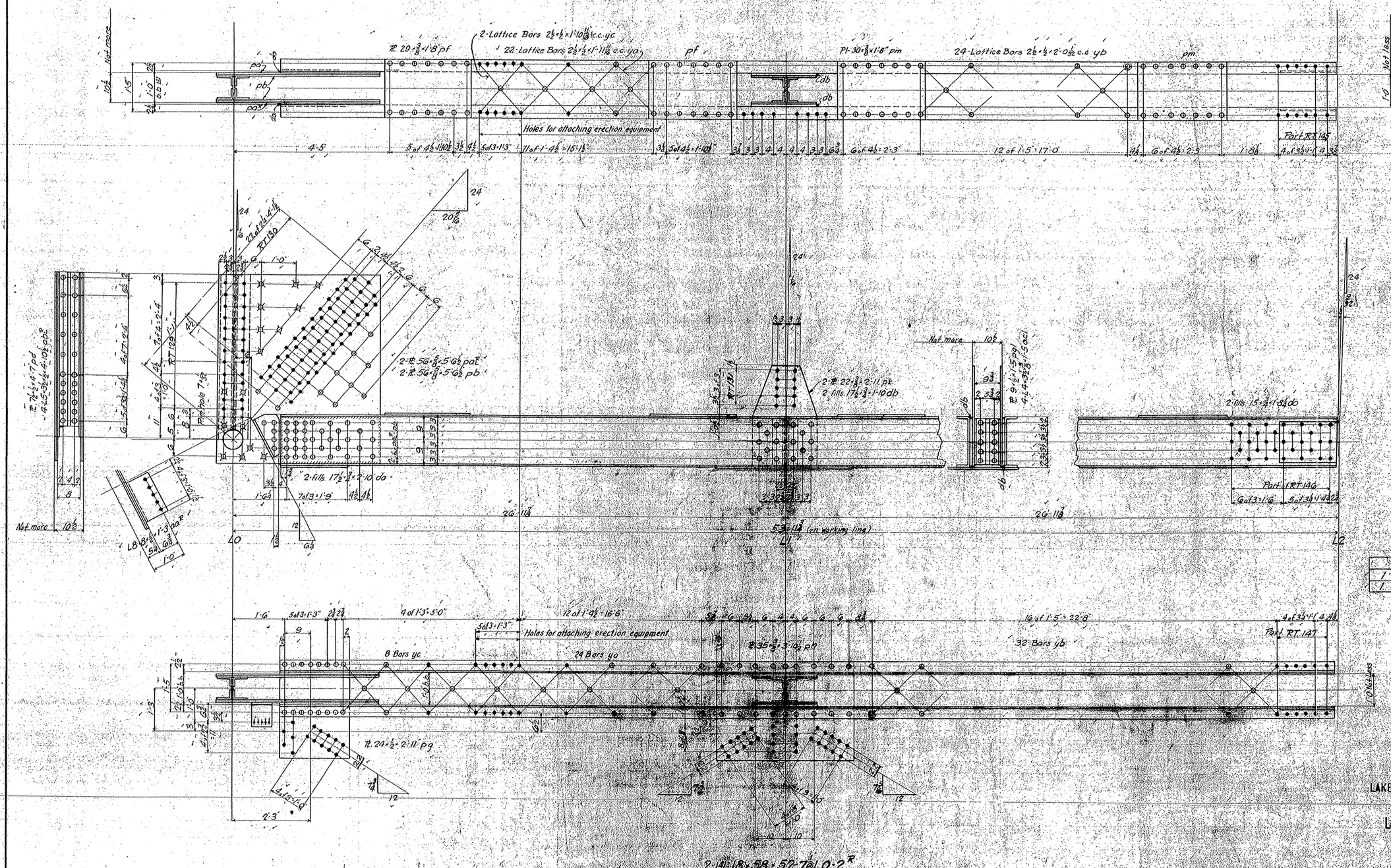
10 Panels @ 27'0" = 270'0"

Span #9

Note to Erector:
Field rivets in chord splices should be driven with the top and bottom flanges before the splice plates on the webs are put in place.
⊗ End of Floorbeams to be placed as shown.

LAKE CHAMPLAIN BRIDGE COMMISSION
NEW YORK — VERMONT
LAKE CHAMPLAIN BRIDGE
Erection Diagram
Span 9

Engineers AMERICAN BRIDGE COMPANY OF N.Y.
DRAWINGS MADE AT ELMIRA
STEEL FABRICATED AT ELMIRA
ERECTED BY B.C.B.
LINES MADE BY E.C.M.
LINES CHECKED BY
ORDER No. F3133



REQUIRED		
1	Bottom Chord	LO-2R
1		LO-2L

NOTES

Specifications Lake Champlain Bridge Commission
Rivets 3/4
Holes 13/16
Field connections marked RT to be subpunched and reamed to a metal templet
Sheared edges of main material over 3/8 planed 1/4
Washers

LAKE CHAMPLAIN BRIDGE COMMISSION
NEW YORK — VERMONT

LAKE CHAMPLAIN BRIDGE

Span 9
Bottom Chords

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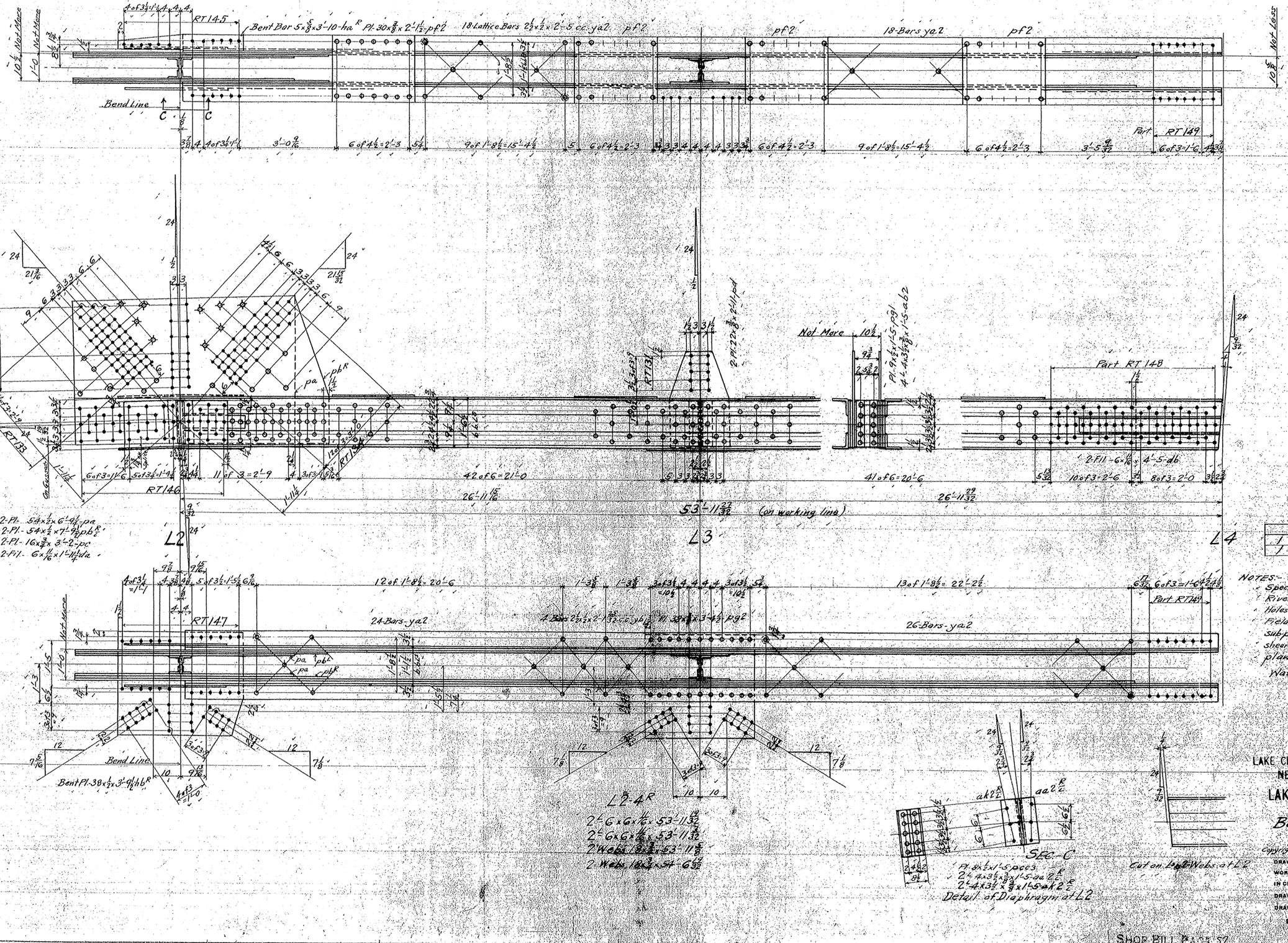
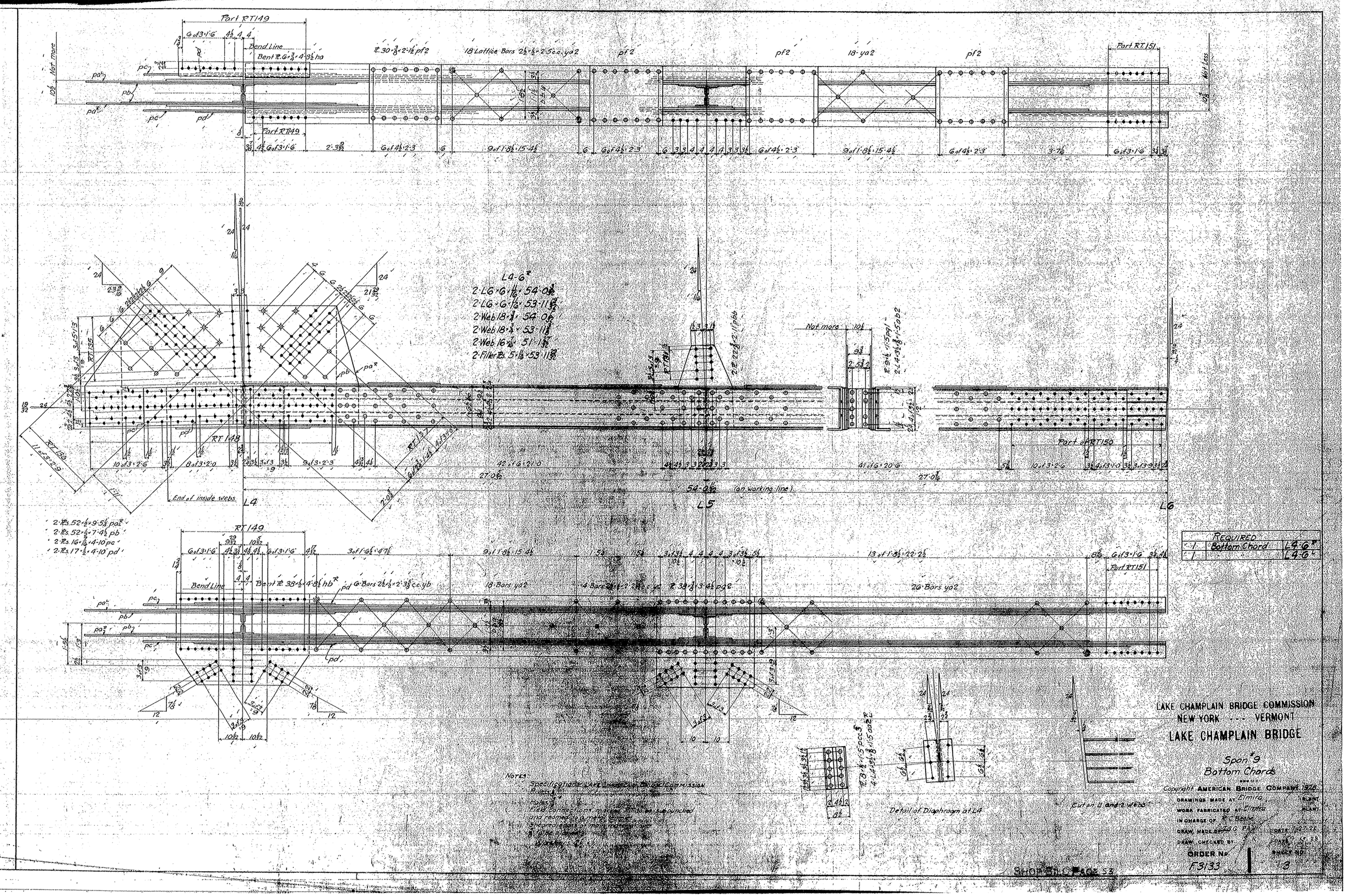
DRAWINGS MADE AT Elmira
WORK FABRICATED AT Elmira
IN CHARGE OF R.C. Beebe
DRAW. MADE BY T.G.G.
DRAW. CHECKED BY
ORDER No. F3133



COPYRIGHT AMERICAN BRIDGE COMPANY 1928
DRAWING MADE AT Elmira PLANT
WORK FABRICATED AT Elmira PLANT
IN CHARGE OF P.C.Bache
DRAW. MADE BY J.G.G./H.S. DATE 7-20-28
DRAW. CHECKED BY S.K. DATE 9-1-28



REQUIRED		
1	Bottom Chord	L4-6R
1		L4-6L

NOTES:
Specifications: LAKE CHAMPLAIN BRIDGE COMMISSION
Rivets 3/4
Holes 3/4
Field connections marked R to be subpunched and reamed to a metal templet
Sheared edges of main material
3/8 to be planed
Washers 2 1/2

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NEW YORK - - - VERMONT

LAKE CHAMPLAIN BRIDGE

Span #9
Bottom Chords

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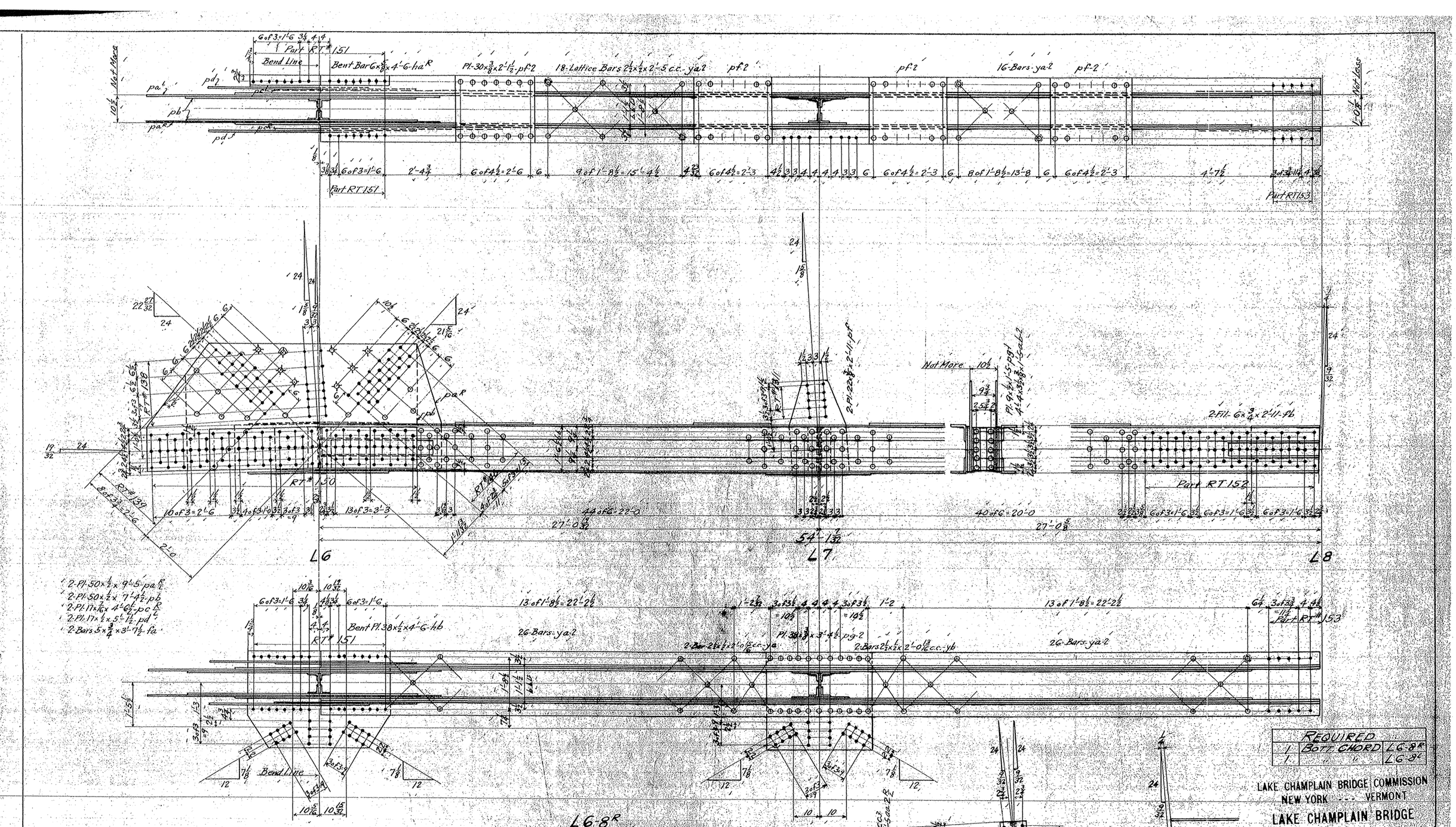
DRAWINGS MADE AT Elmira PLANT
WORK FABRICATED AT Elmira PLANT
IN CHARGE OF R.C. Beebe
DRAW. MADE BY T.G.G. PAHL DATE 7-27-28
DRAW. CHECKED BY K DATE 7-27-28
ORDER No. F3133 SHEET NO. 3

SHOP BILL PAGE 53



NOTES:-
Specifications Lake Champlain Bridge Comm.
Rivets 7/8" dia.
Holes 15/16" dia.
Field connections marked R.T. to be subpunched & reamed to a metal templet.
Sheared edges of main material over 5/8" to be planed 1/4".
Washers 2 1/2"×1/2"

REQUIRED		
1	BOTT. CHORD	L6-8R
1	" "	L6-8L

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LAKE CHAMPLAIN BRIDGE

BOTTOM CHORD

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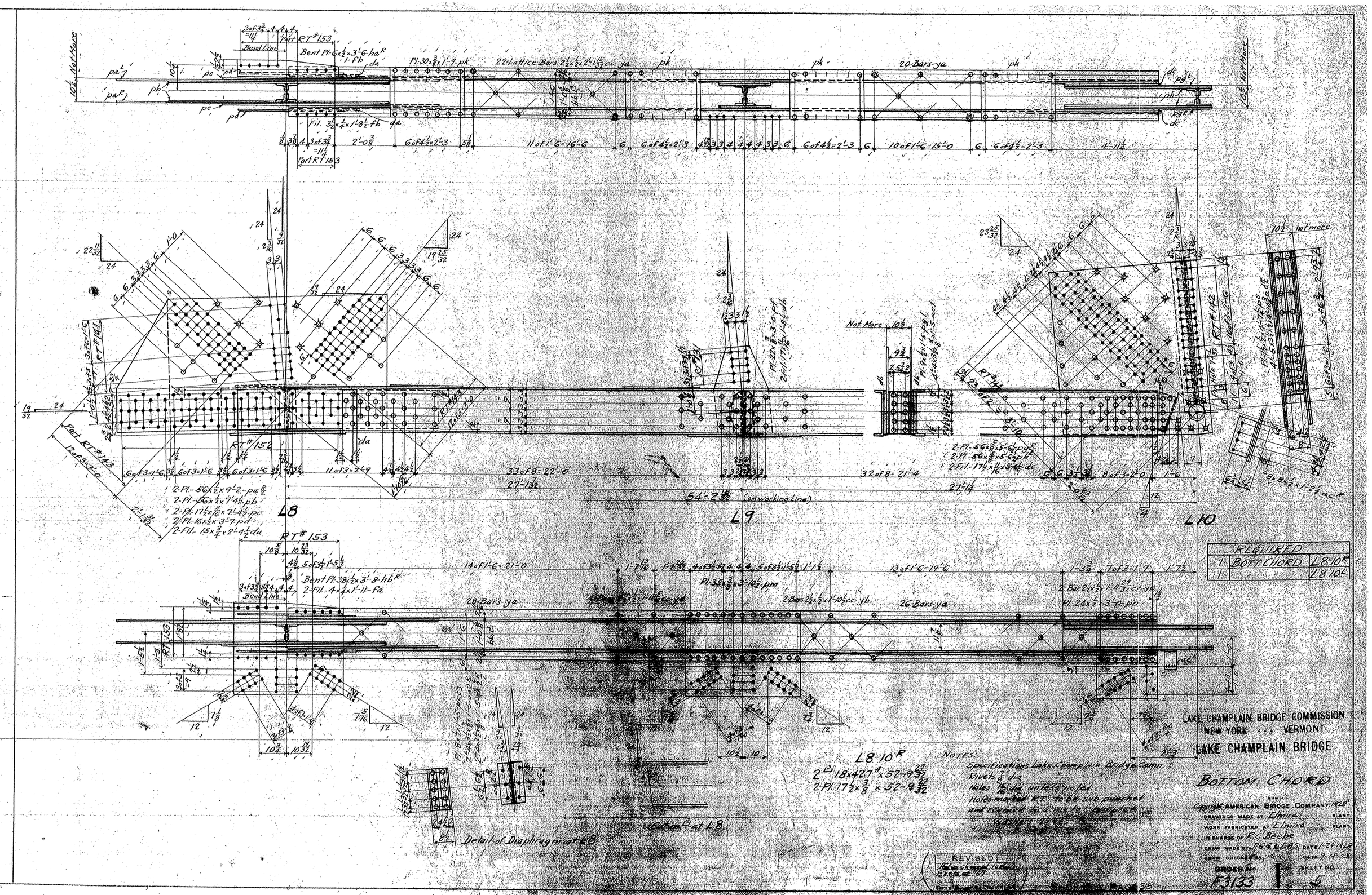
DRAWINGS MADE AT Elmira PLANT
WORK FABRICATED AT Elmira PLANT
IN CHARGE OF R.C. Beebe
DRAW. MADE BY J.G.G. & F.H.S. DATE 7-24-1928
DRAW. CHECKED BY S.K. DATE 9-15-38

ORDER No. F3133 | SHEET No. 4

SHOP BILL PAGE 54



REQUIRED		
1	BOTT. CHORD	L8-10 R
1	"	L8-10 L

NOTES:
Specifications Lake Champlain Bridge Comn.
Rivets ⅞" dia
Holes 15/16" dia unless noted
Holes marked RT to be sub punched and reamed to a mo'tal template
Washers 2" x 6"

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NEW YORK - - - VERMONT
LAKE CHAMPLAIN BRIDGE

BOTTOM CHORD

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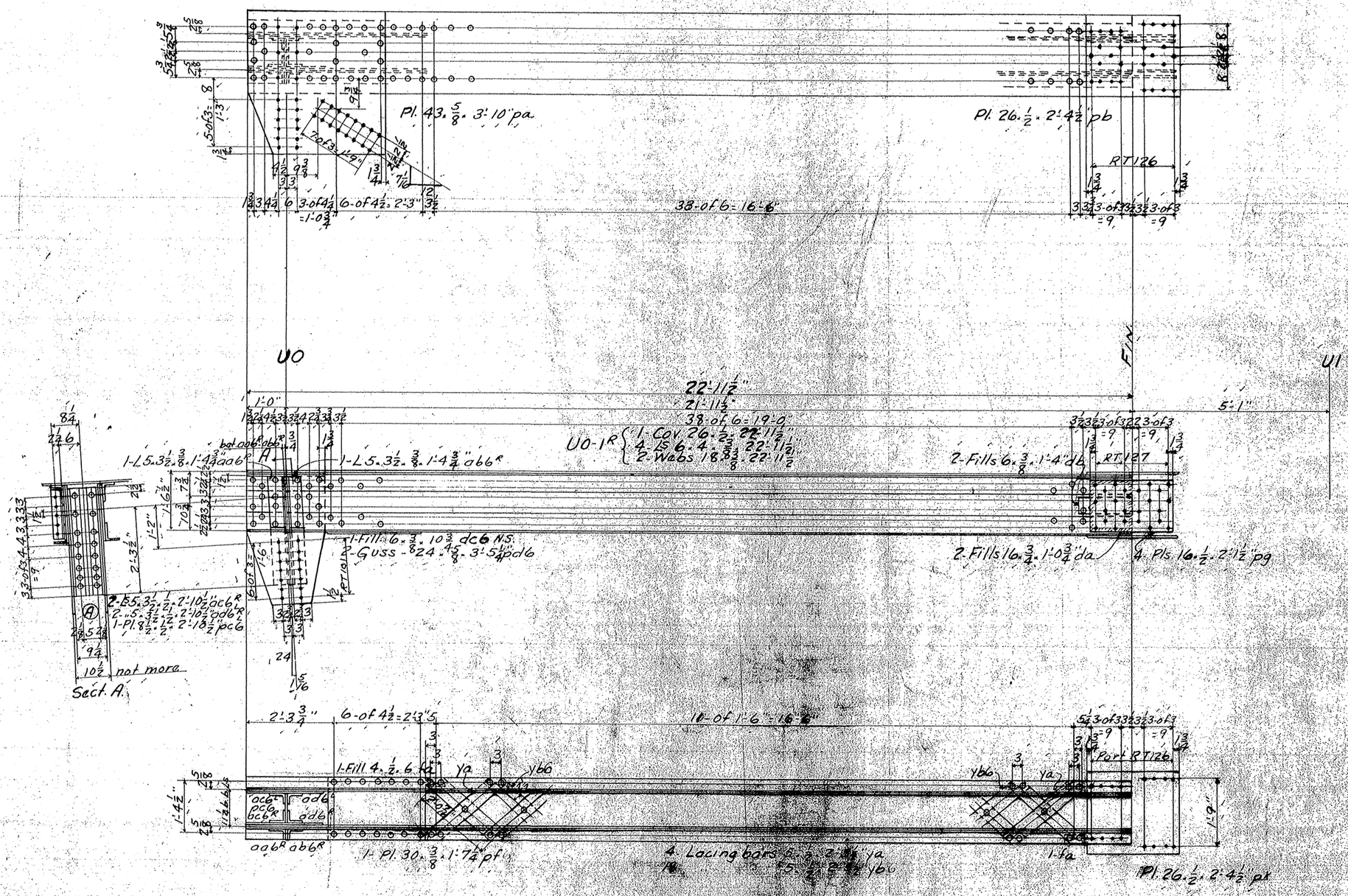
DRAWINGS MADE AT Elmira PLANT
WORK FABRICATED AT Elmira PLANT
IN CHARGE OF R.C. Beebe
DRAW MADE BY T.G.G. & F.A.S. DATE 7-24-1928
DRAW CHECKED BY S.C. DATE 9-15-28

ORDER No. F3133 SHEET NO. 5

REVISED:
Holes changed to 15/16 rivets at L9

SHOP BILL PAGE 55



REQUIRED		
1	TOP CHORD	U0-1R
1	" "	U0-1L

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LAKE CHAMPLAIN BRIDGE

Notes:
Specifications: Lake Champlain Bridge Commission
Rivets 7/8"
Holes 15/16"
Main field connections marked RT to be sub-punched & reamed to a metal templet

Top Chords

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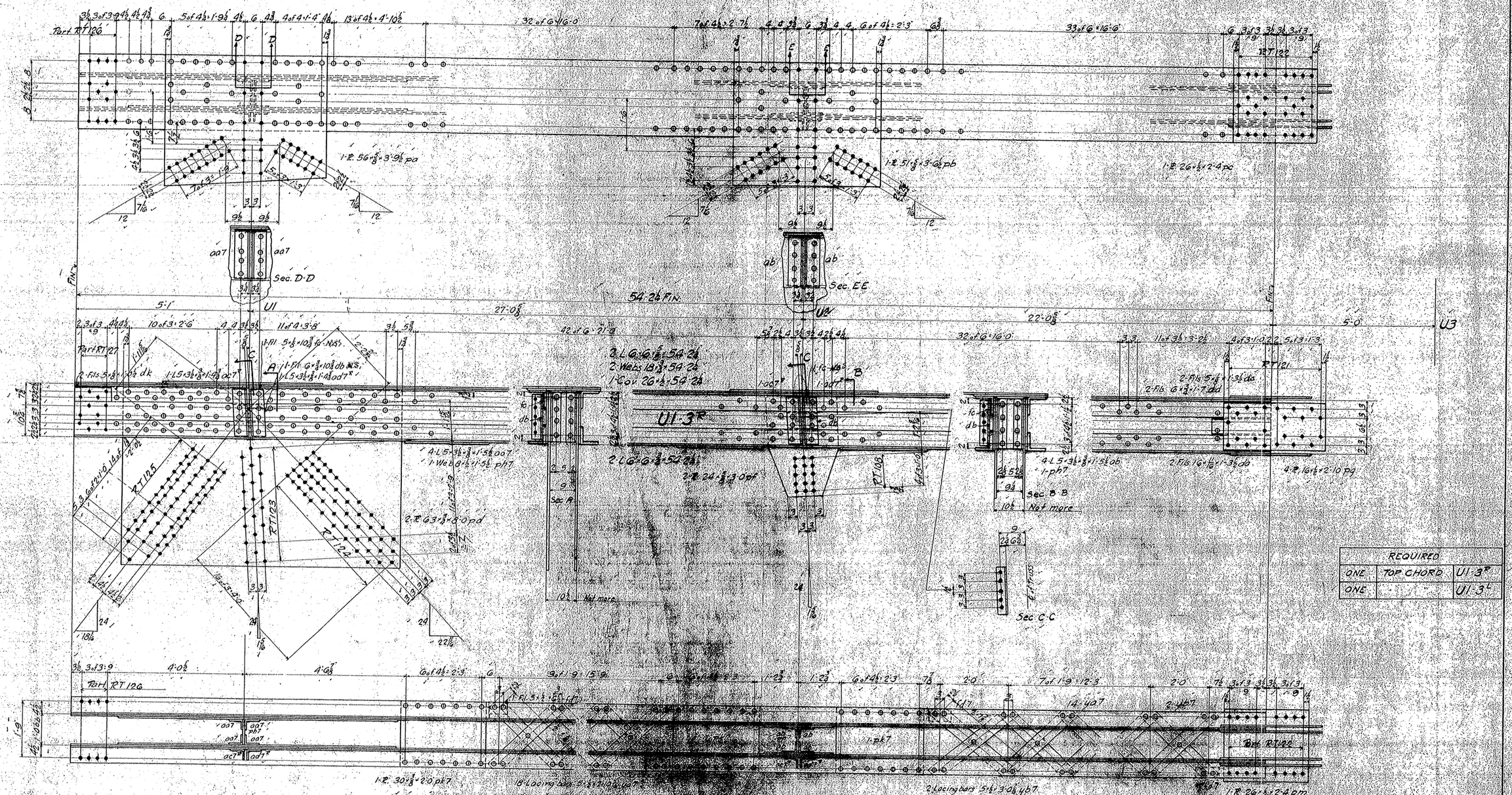
DRAWINGS MADE BY Elmira PLANT
WORK FABRICATED AT Elmira PLANT
IN CHARGE OF R.C. Beebe
DRAW. MADE BY E.C.M. M.T. DATE 8/1/28
DRAW. CHECKED BY S.K. DATE 7-15-28

ORDER No. F3133 | SHEET NO. 6

SHOP BILL PAGE 56



REQUIRED		
ONE	TOP CHORD	U1-3R
ONE	"	U1-3L

NOTES:
Specifications - LAKE CHAMPLAIN BRIDGE COMMISSION
Rivets 7/8
Holes 15/16
Main field connections marked RT to be subpunched and reamed to a metal templet
Sheared edges of main material over ⅜ and gussets over ⅝ to be planed

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LAKE CHAMPLAIN BRIDGE

Span
Top Chords

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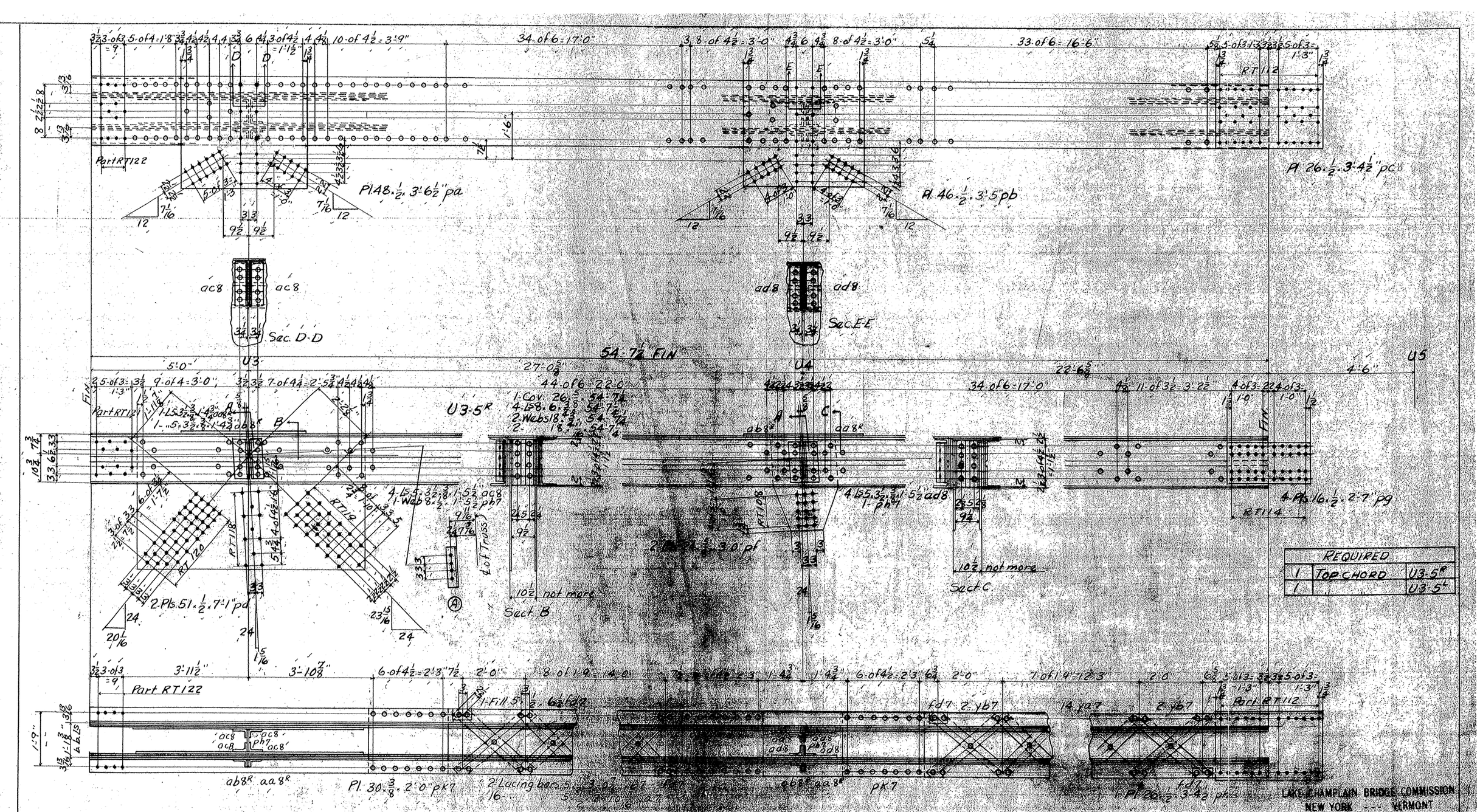
DRAWINGS MADE AT Elmira
WORK FABRICATED AT Elmira
IN CHARGE OF R.C. Beebe
DRAW. MADE BY E.C.M. R.A.H. DATE
DRAW. CHECKED BY S.K. DATE
ORDER No. F3133
SHEET NO. 7



REQUIRED		
1	TOP CHORD	U3-5R
1	"	U3-5L

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NEW YORK --- VERMONT

LAKE CHAMPLAIN BRIDGE

Notes

Specifications Lake Champlain Bridge Commission.
Rivets 3/4"
Holes 3/4"
Main field connections marked RT to be sub-punched & reamed to a metal templet.
Sheared edges of main material over to be planed.

Top Chords

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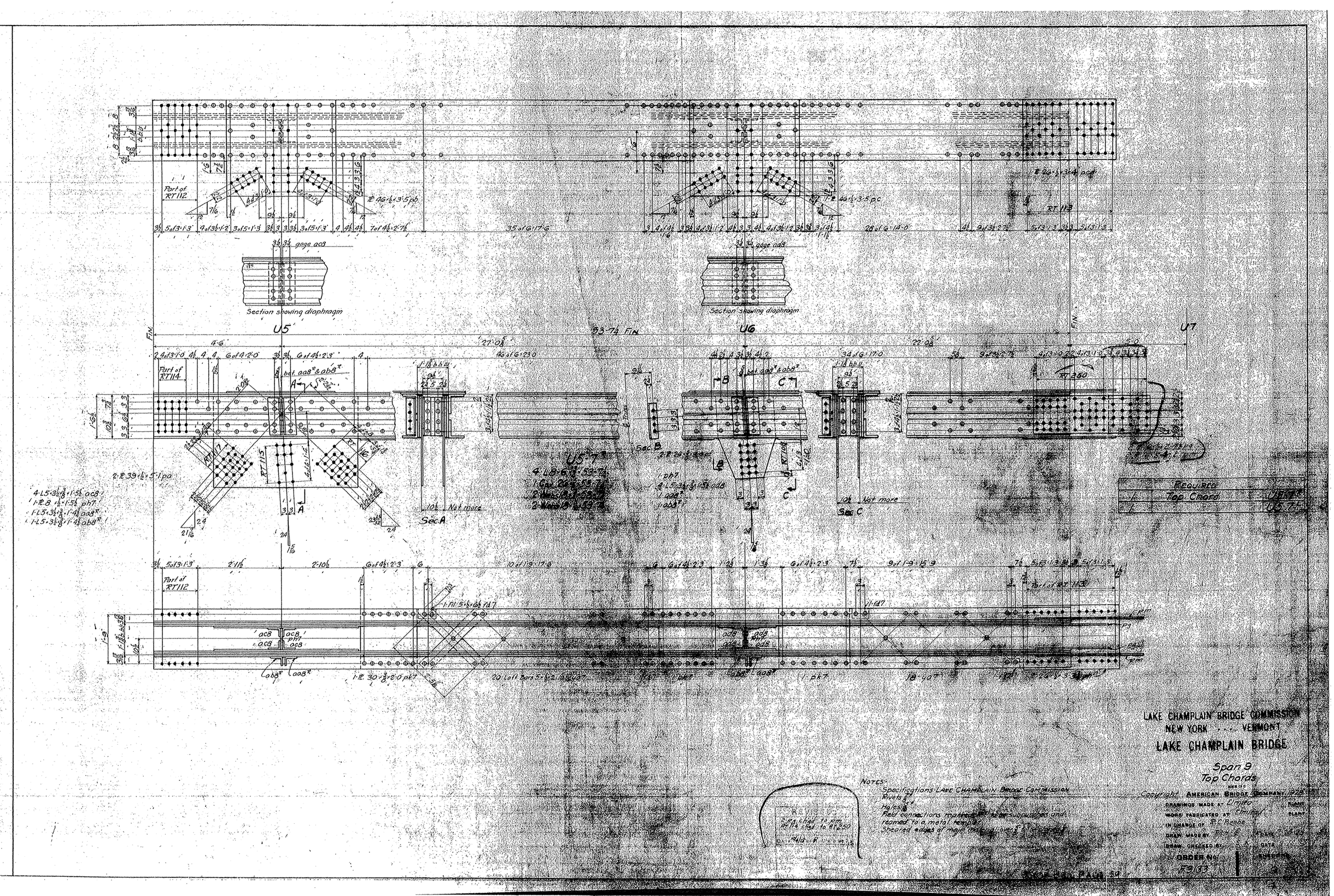
DRAWINGS MADE AT Elmira PLANT
WORK FABRICATED AT Elmira PLANT
IN CHARGE OF R.C. Beebe
DRAWN MADE BY E.C.M.M.T. DATE 12/28
CHECKED BY S.K. DATE 12/28
ORDER No. F 3133 SHEET NO. 8



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LAKE CHAMPLAIN BRIDGE

Span 9
Top Chords

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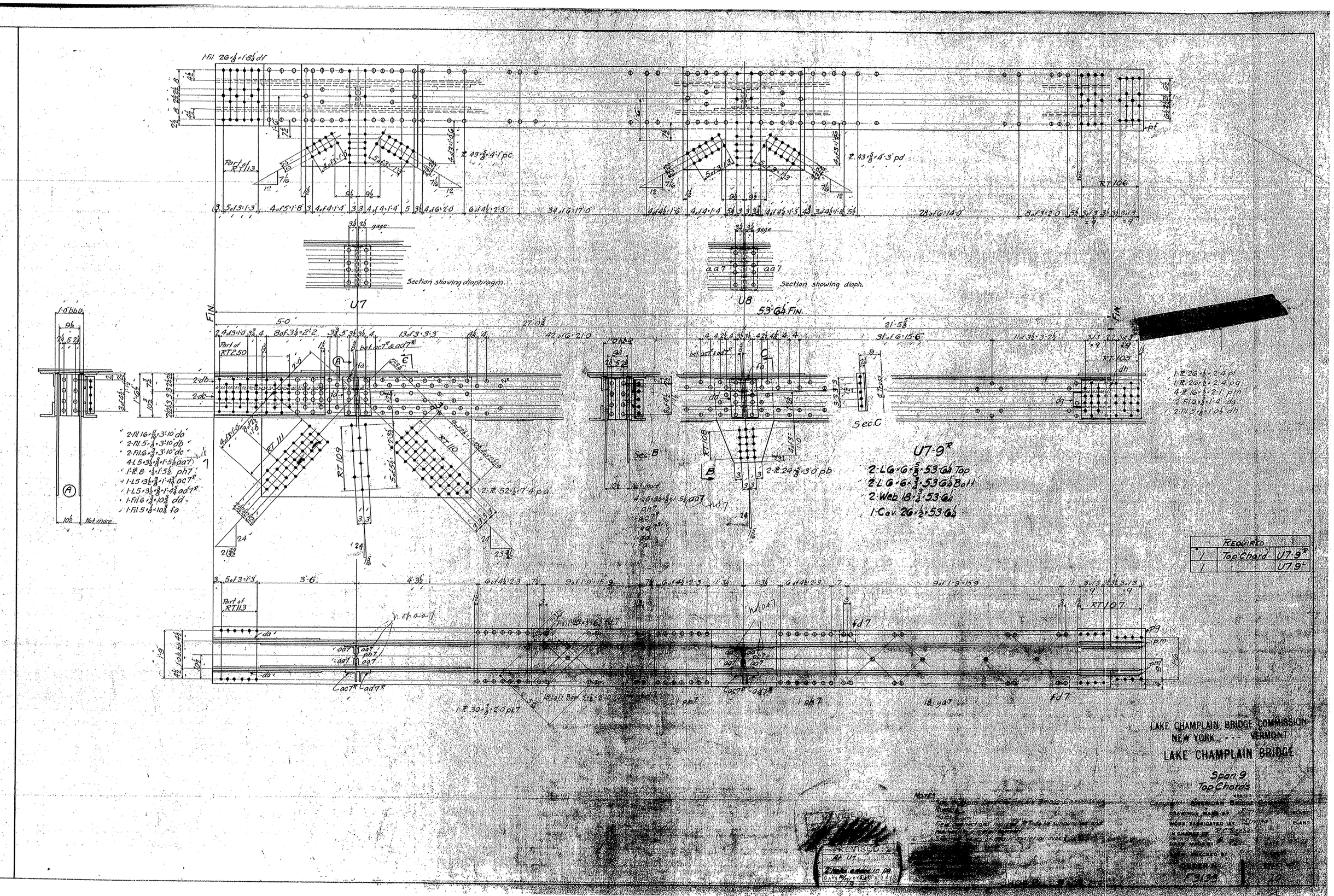
DRAWINGS MADE AT Elmira PLANT
WORK FABRICATED AT Elmira PLANT
IN CHARGE OF R.C. Beebe
DRAW. MADE BY R.H.G. DATE
DRAW. CHECKED BY S.K. DATE
ORDER No. F3133

NOTES:
Specifications Lake Champlain Bridge Commission
Rivets
Holes
Field connections marked to be subpunched and reamed to a metal templet
Sheared edges of main mass gallows



Section showing diaphragm
Section showing diaph.
U7
U8
53·6¼ FIN.
U7-9R
2-L6×6×⅝×53·6¼ Top
2-L6×6×¾×53·6¼ Bott
2-Web 18×¾×53·6¼
1-Cov. 26×½×53·6¼
Sec. B
Sec. C
Part of RT113
Part of RT250
RT 106
RT 105
RT 111
RT 109
RT 110
RT 108
RT 107
Not more
REQUIRED
1 Top Chord U7-9R
1 U7-9L
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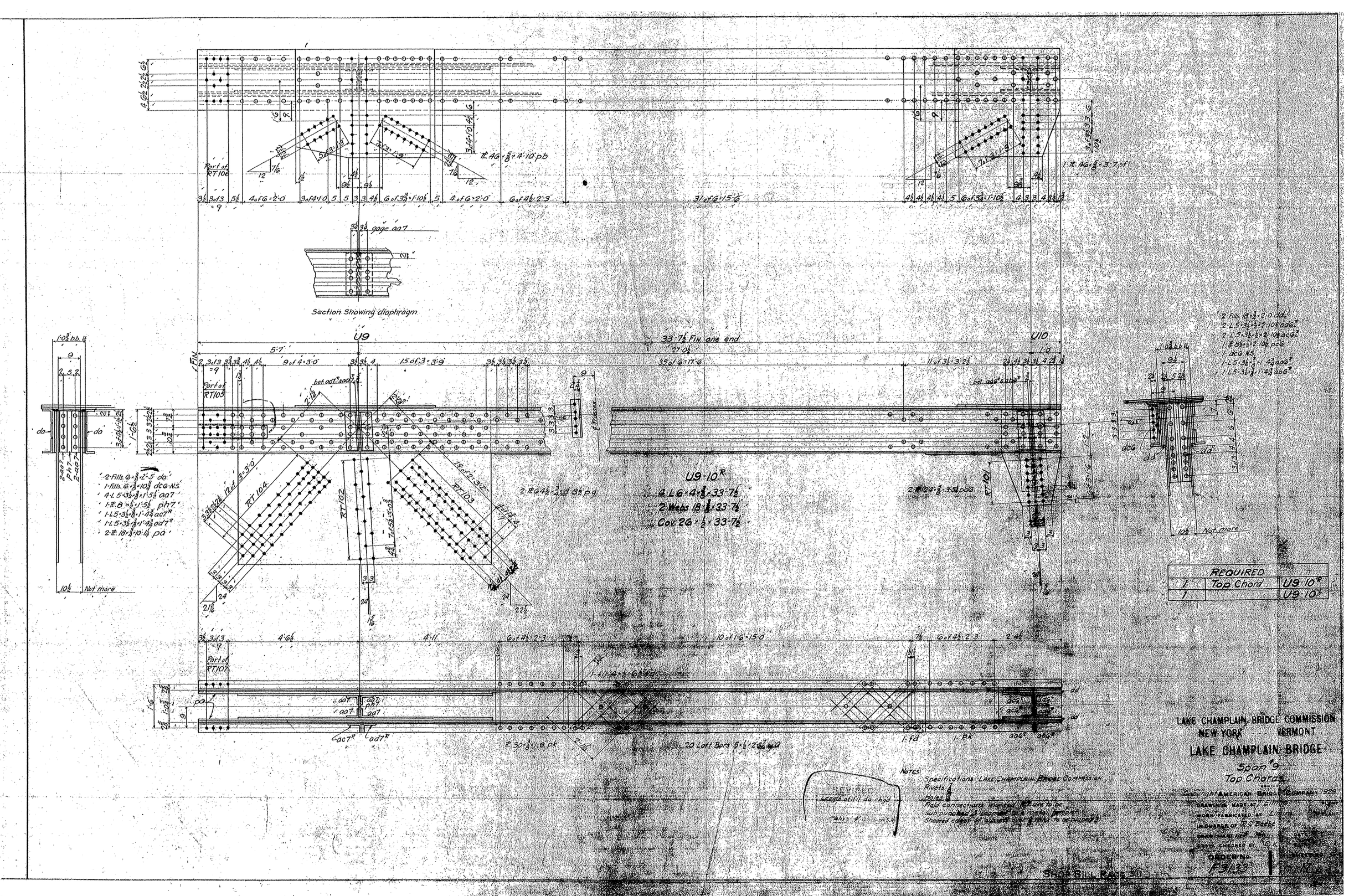
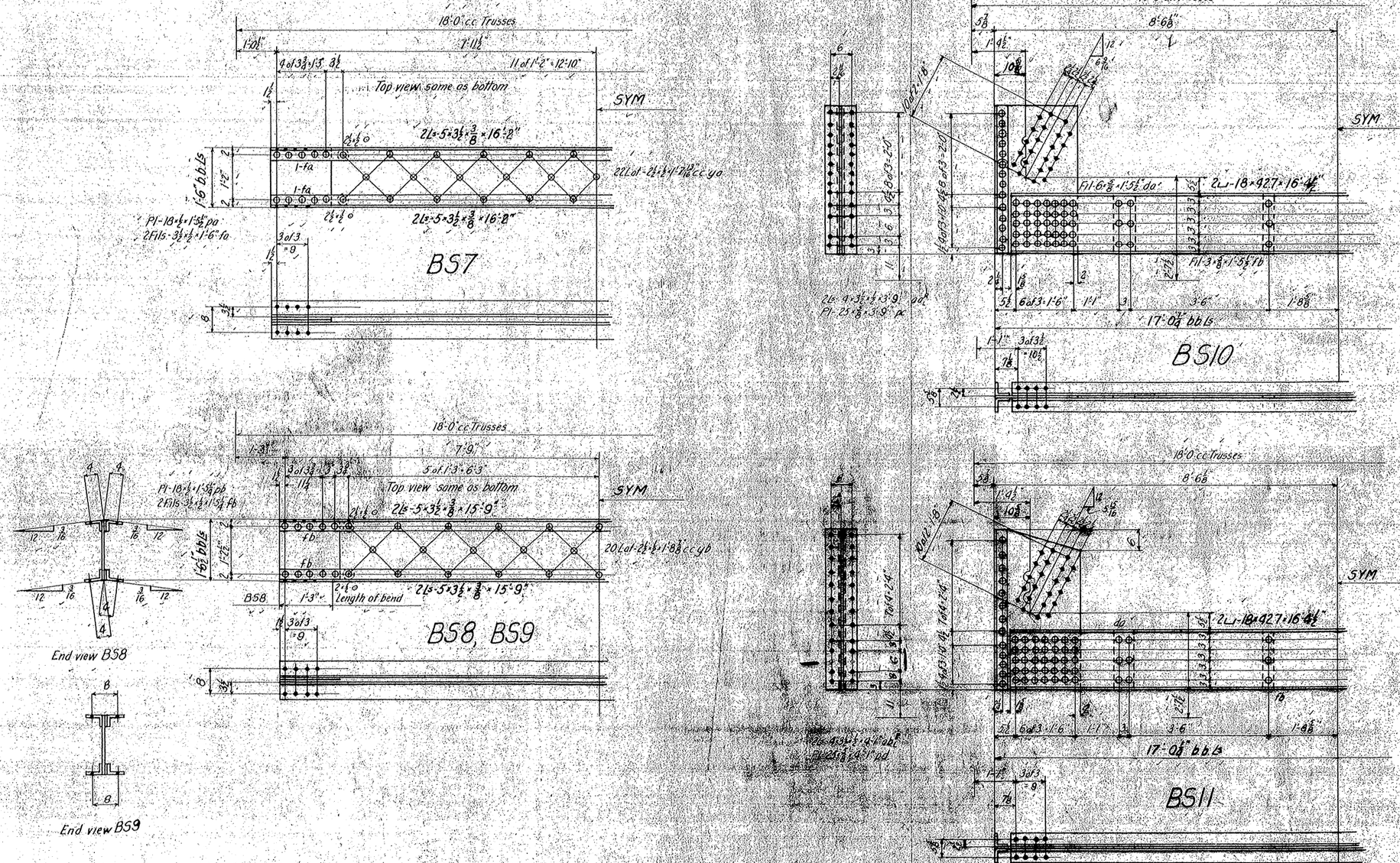
NEW YORK - - - VERMONT
LAKE CHAMPLAIN BRIDGE
Span 9
Top Chords
NOTES



Section Showing diaphragm
U9
U10
33-7½ Fin. one end
U9-10R
4 L 6 × 4 × ⅜ × 33-7½
2 Webs 18 × ⅜ × 33-7½
Cov. 26 × ½ × 33-7½
RT 104
RT 102
RT 103
RT 101
Part of RT 106
Part of RT 105
Part of RT 107
Not more
REQUIRED
1 Top Chord U9-10R
1 U9-10L
NOTES:
Specifications: Lake Champlain Bridge Commission
Rivets
Holes
Field connections marked
Sheared edges of gussets
LAKE CHAMPLAIN BRIDGE COMMISSION
NEW YORK VERMONT
LAKE CHAMPLAIN BRIDGE
Span #9
Top Chords
Copyright American Bridge Company 1928
Drawing made at Elmira
Work fabricated at Elmira
In charge of R. C. Beebe
Drawn, checked by
Order No. F3133
Shop Bill Page 311



REQUIRED		
2	BOTTOM STRUTS	BS7
4	" "	BS8
3	" "	BS9
One	" "	BS10
One	" "	BS11

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NEW YORK - - - VERMONT

LAKE CHAMPLAIN BRIDGE

Bottom Struts

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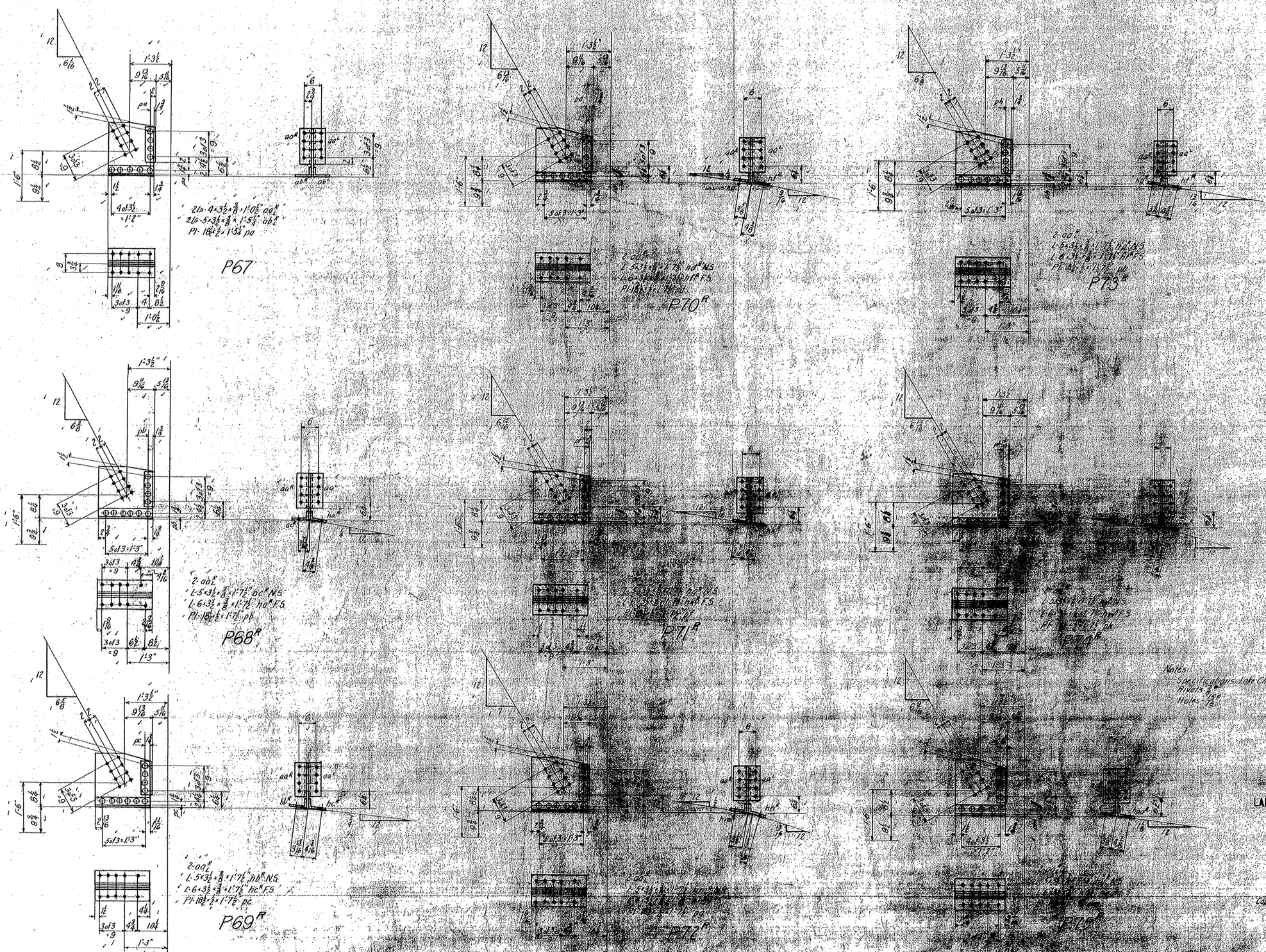
DRAWINGS MADE AT ELMIRA PLANT
WORK FABRICATED AT ELMIRA PLANT
IN CHARGE OF RCB
DRAW MADE BY KB DATE 7-23-28
DRAW CHECKED BY S.K. DATE 9-15-28

ORDER No. F3133 | SHEET No. 23

Notes
Specifications Lake Champlain Bridge Commission
Rivets 7/8"
Holes 15/16"

REVISED
BS11
Holes taken out
DATE 11/3/31

SHOP BILL PAGE S23



REQUIRED		
2	PLATES	P67
ONE	"	P68R
ONE	"	P69L
ONE	"	P69R
ONE	"	P69L
ONE	"	P70R
ONE	"	P70L
ONE	"	P71R
ONE	"	P71L
ONE	"	P72R
ONE	"	P72L
ONE	"	P73R
ONE	"	P73L
ONE	"	P74R
ONE	"	P74L
ONE	"	P75R
ONE	"	P75L

Notes:
Specifications Lake Champlain Bridge Commission
Rivets $\frac{7}{8}$
Holes $\frac{15}{16}$

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LAKE CHAMPLAIN BRIDGE

Plates for Bottom Struts

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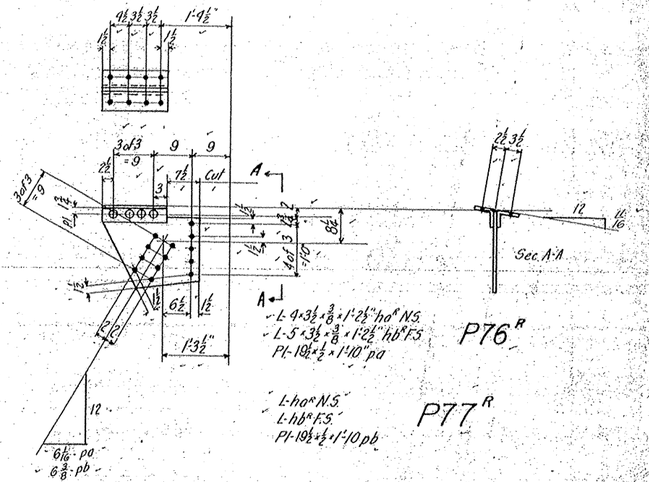
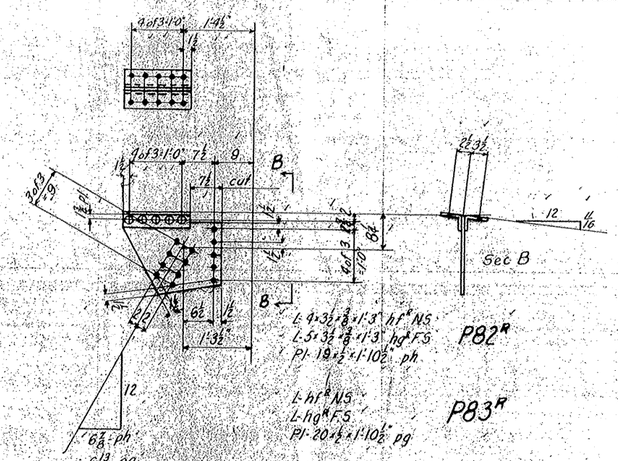
DRAWINGS MADE AT ELMIRA
WORK FABRICATED AT ELMIRA
IN CHARGE OF RCB
DRAW MADE BY KB
DRAW CHECKED BY
ORDER No. F3133



P76^R

L-ha^R N.S.
L-hb^R F.S.
Pl-10½x½x1'-10 pb

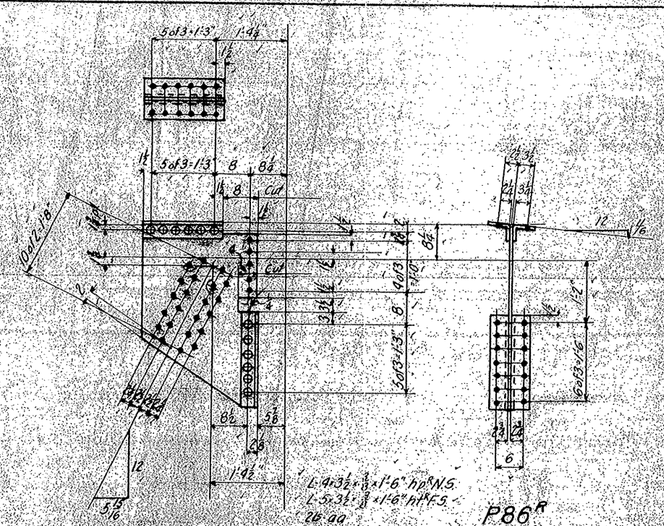
P77^R



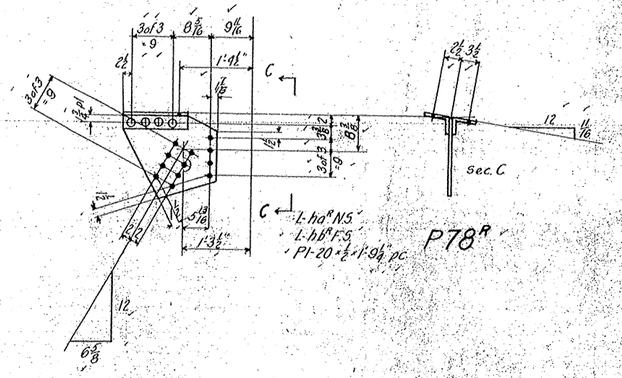
P82^R

L-hf^R N.S.
L-hg^R F.S.
Pl-20x½x1'-10½" pg

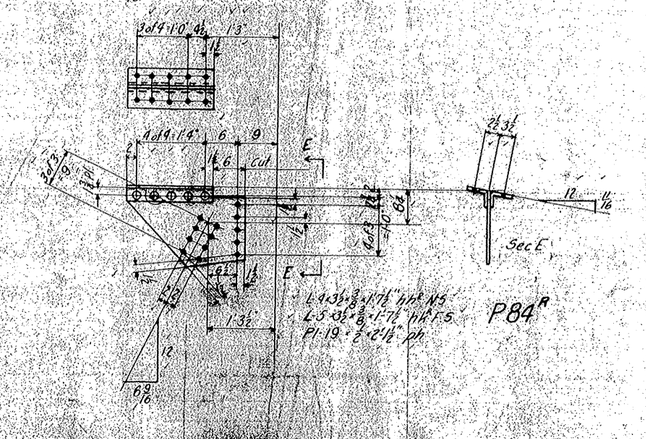
P83^R



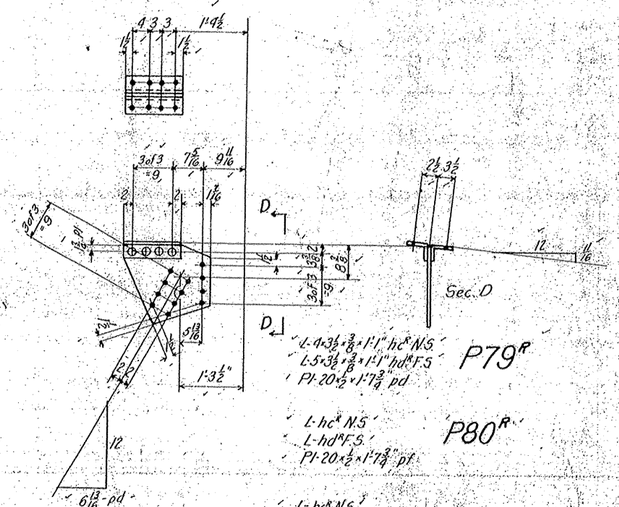
P86^R



P78^R



P84^R



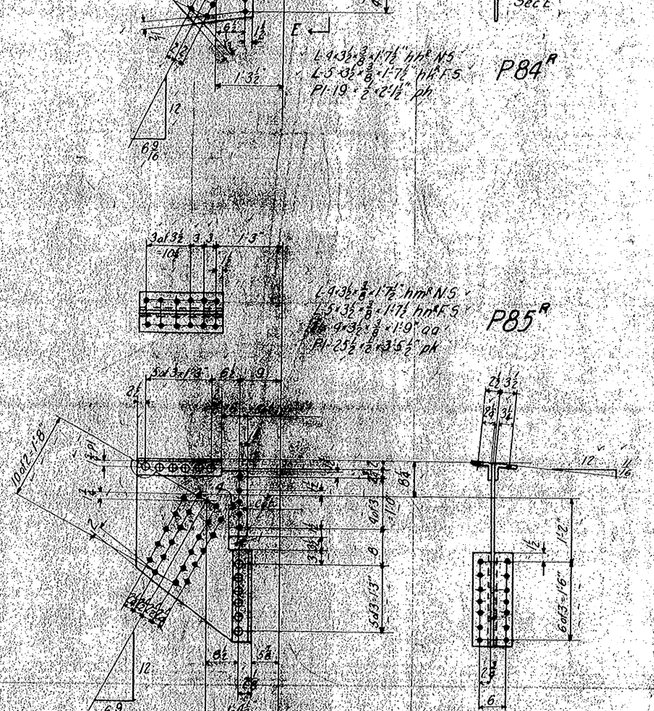
P79^R

L-hc^R N.S.
L-hd^R F.S.
Pl-20x½x1'-7⅜" pf

P80^R

L-hc^R N.S.
L-hd^R F.S.
Pl-20x½x1'-7⅜" pg

P81^R



P85^R

REQUIRED		
ONE	PLATE	P76^R
ONE	"	P76^L
ONE	"	P77^R
ONE	"	P77^L
ONE	"	P78^R
ONE	"	P78^L
ONE	"	P79^R
ONE	"	P79^L
ONE	"	P80^R
ONE	"	P80^L
ONE	"	P81^R
ONE	"	P81^L
ONE	"	P82^R
ONE	"	P82^L
ONE	"	P88^R
ONE	"	P83^L
ONE	"	P84^R
ONE	"	P84^L
ONE	"	P85^R
ONE	"	P85^L
ONE	"	P86^R
ONE	"	P86^L

LAKE CHAMPLAIN BRIDGE COMMISSION
NEW YORK — VERMONT

LAKE CHAMPLAIN BRIDGE

Notes
Specifications - Lake Champlain Bridge Commission
Rivets - ⅞"
Holes - 15/16"

Plates for Transverse Bracing

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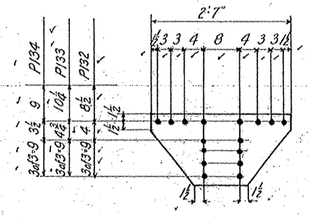
DRAWING MADE AT ELMIRA PLANT
WORK FABRICATED AT ELMIRA PLANT
IN CHARGE OF R.C.B.
DRAW. MADE BY R.B. DATE 7-28-28
DRAW. CHECKED BY [illegible] DATE [illegible]

ORDER No. F3133
SHEET No. 28

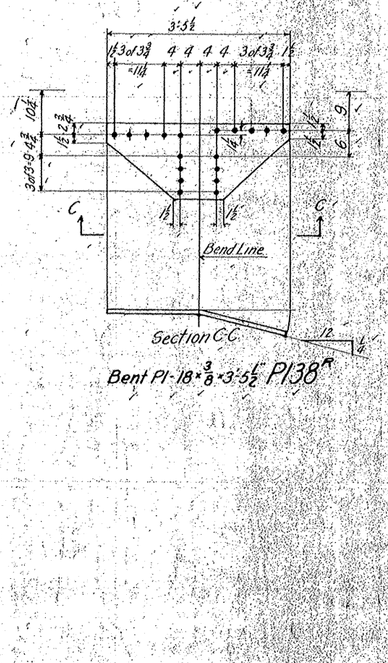
STOCK No. 52 8WB



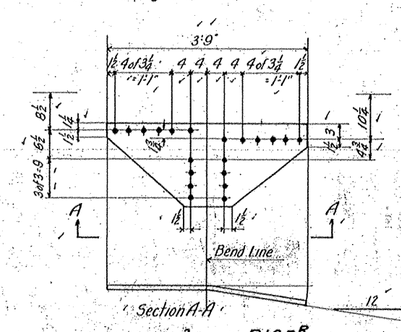
Pl-16×$\frac{3}{8}$×2'-7" P132

Pl-16$\frac{3}{4}$×$\frac{3}{8}$×2'-7" P133

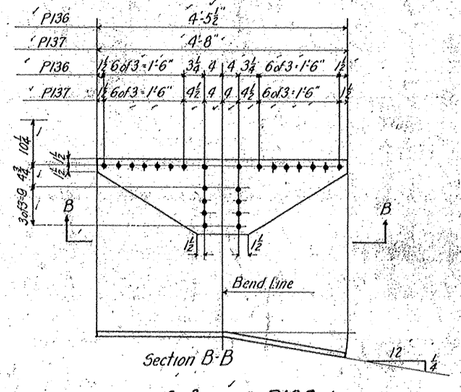
Pl-16 ×$\frac{3}{8}$×2'-7" P134



Bent Pl-18×$\frac{3}{8}$×3'-5½" P138



Bent Pl-18 ×$\frac{3}{8}$×3'-9" P135



Bent Pl-16$\frac{3}{4}$×$\frac{3}{8}$×4'-5½" P136

Bent Pl-16$\frac{3}{4}$×$\frac{3}{8}$×4'-8" P137

REQUIRED		
2	PLATES	P132
6	"	P133
2	"	P134
1	"	P135
1	"	P136
2	"	P146
2	"	P137
1	"	P138
1	"	P139

Notes,
Spec.-Lake Champlain Bridge Commission
Holes-15/16

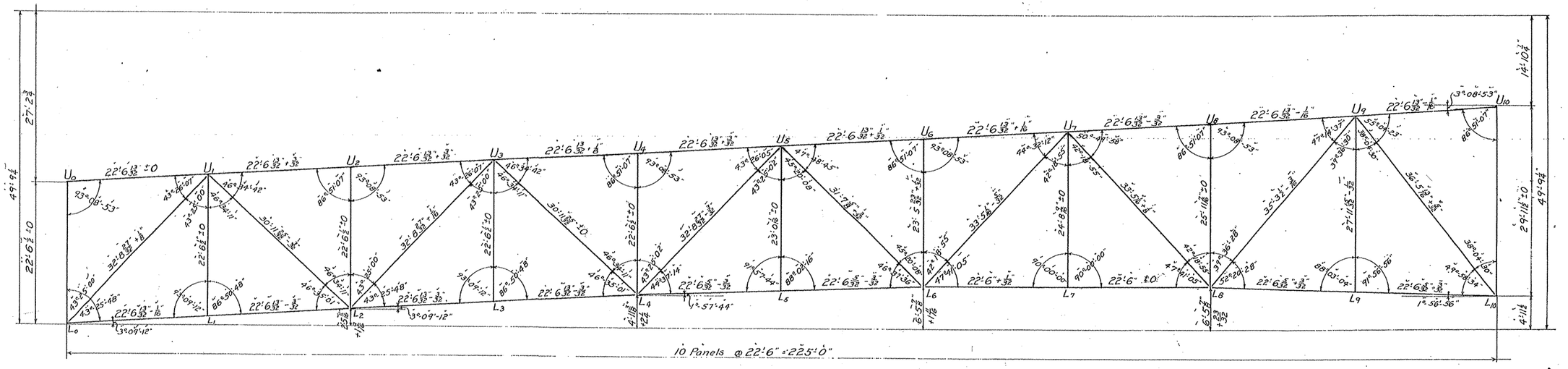
LAKE CHAMPLAIN BRIDGE COMMISSION
NEW YORK - - - VERMONT
LAKE CHAMPLAIN BRIDGE

Bottom Strut Plates

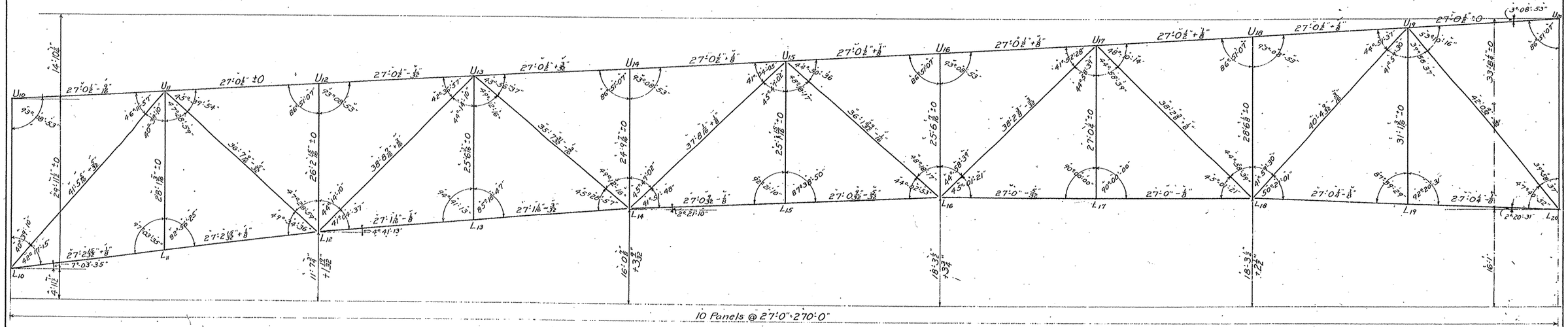
Copyright AMERICAN BRIDGE COMPANY, 1928

DRAWINGS MADE AT ELMIRA PLATE
WORK FABRICATED AT ELMIRA PLATE
IN CHARGE OF R.C.B.
DRAW. MADE BY K.B. DATE 9-19-28
DRAW. CHECKED BY S.K. DATE 9-20-28
ORDER No. F3133 SHEET No. 29

SHOP BILL PAGE 5.4



SPAN No. 4



SPAN No. 5

Dimensions noted + or − indicate allowances for camber with members under no load.

LAKE CHAMPLAIN BRIDGE COMMISSION
NEW YORK --- VERMONT

LAKE CHAMPLAIN BRIDGE

SPANS 4 & 5

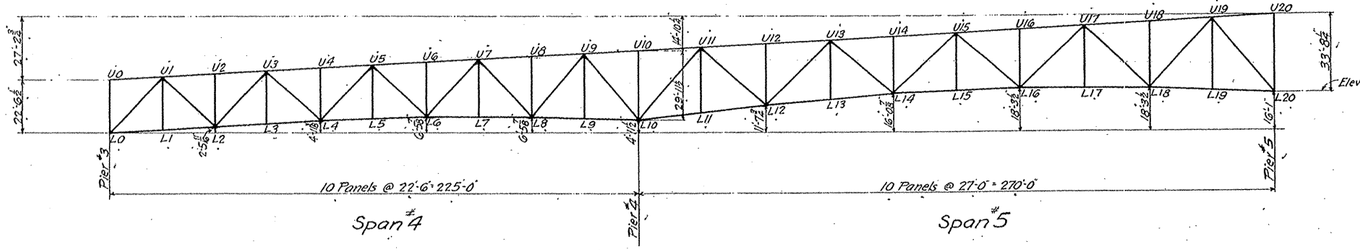
KHM 25-0

Copyright, AMERICAN BRIDGE COMPANY, 1928

DRAWINGS MADE AT Elmira PLANT
WORK FABRICATED AT Elmira PLANT
IN CHARGE OF R.C. Beebe
DRAW. MADE BY Z.M. DATE 6-5-28
DRAW. CHECKED BY P DATE 6-8-28
ORDER No. F3131
SHEET NO. D1

MEMBER	STRESS IN KIPS DEAD	LIVE (Incl. Imp.)	TOTAL	SECTION	PAD&YR	AREA GROSS	AREA NET	ASSEMBLY	LACING
U0-U1				Cov. 20×$\frac{3}{8}$ = 7.5 2-18 WI 45.8# = 26.8		34.3			
U1-U3	-288	-127	-415	Cov. 20×$\frac{3}{8}$ = 7.5 2-18 WI 45.8# = 26.8	G.13	34.3			
U3-U5	-320	-172	-492	Cov. 20×$\frac{7}{16}$ = 8.7 2-18 WI 51.9 = 30.4	G.11	39.1			
U5-U7	-91	188 -143	-3 -234	Cov. 20×$\frac{3}{8}$ = 7.5 2-18 WI 42.7 = 25.0		32.5			
U7-U9	+344	+105	+499 E.S. +694	Cov. 20×$\frac{3}{8}$ = 7.5 = $G.0_N$ 2-18 WI 58.0# = 34.0 = 28.7_N		41.5	34.7		
U9-U11	+863	+196	+1059	Cov. 22×$\frac{3}{8}$ = 13.0 = 11.2_N 2-17½×$\frac{1}{2}$ = 17.5 2-18 WI 42.7# = 25.0 = 20.7_N 2-17½×$\frac{3}{8}$ = 21.9 } 39.4 = 34.9 N.		78.2	66.8		
U11-U13	+91	+106 -84	+197 +7	Cov. 22×$\frac{3}{8}$ = 8.2 = $G.7_N$ 2-18 WI 58.0# = 34.0 = 28.7_N		42.2	35.4		
U13-U15	-492	-208	-700	Cov. 22×$\frac{3}{8}$ = 11.0 2-18 WI 42.7# = 25.0 2-17½×$\frac{3}{8}$ = 21.9	G. 29	57.9			D.L. 5×½ 2-Rivets
U15-U17	-683	-230	-913	Cov. 22×$\frac{3}{8}$ = 13.0 2-18 WI 42.7# = 25.0 4-17½×$\frac{1}{2}$ = 35.4	G.34	73.8			
U17-U19	-471	-148	-619	Cov. 22×$\frac{1}{2}$ = 11.0 2-18 WI 42.7# = 25.0 2-17½×$\frac{11}{16}$ = 15.3	G.26	51.3			
U19-U20				Cov. 22×$\frac{1}{2}$ = 11.0 2-18 WI 42.7 = 25.0		36.0			
L0-L2	+176	+74	+250	2-18 WI 42.7#		25.0	22.3		D.L. 2½×½ 1-Rivet
L2-L4	+336	+160	+496	2-18 WI 42.7# = 25.0 = 20.7_N 2-17½×$\frac{7}{16}$ = 15.3 = 13.6_N		40.3	34.3		
L4-L6	+238	+165	+403	2-18 WI 51.9#		30.4	26.6		
L6-L8	-119	-96	-215 E.S. -545	2-18 WI 58.0#	G.23	34.0			
L8-L10	-594	-142	-736	2-18 WI 58.0# = 34.0 2-17½×$\frac{3}{8}$ = 26.3	5.77	60.3			D.L. 5×½ 2-Rivets
L10-L12	-456	+129	-585	2-18 WI 42.7# = 25.0 2-17½×$\frac{11}{16}$ = 24.1	5.90	49.1			
L12-L14	+235	+154	+389	2-18 WI 51.9#		30.4	26.8		
L14-L16	+635	+217	+852	2-18 WI 42.7# = 25.0 = 20.7_N 4-17½×$\frac{3}{16}$ = 39.4 = 34.9_N		64.4	55.6		
L16-L18	+617	+199	+816	2-18 WI 58# = 34.0 = 28.7_N 2-17½×$\frac{3}{8}$ = 26.3 = 23.3_N		60.3	52.0		
L18-L20	+251	+77	+328	2-18 WI 42.7#		25.0	22.3		
U1-L0	-256	-108	-364	2-18 WI 58.0#	G. 22	34.0			
U1-L2	+154	+81	+235	2-15 WI 40#		23.4	20.3		D.L. 2½×½ 1-Rivet.
U3-L2	-70	-67	-137	2-15 WI 35#	5.58	20.5			
U3-L4	-24	+97 -45	+23 -69	2-15 WI 35#		20.5	18.0		
U5-L4	+117	+62	+179	2-15 WI 35#		20.5	18.0		
U5-L6	-198	-74	-272	2-15 WI 45#	5.33	26.3			
U7-L6	+294	+95	+389	2-15 WI 50#		29.3	26.5		
U7-L8	-341	-103	-444	2-15 WI 40# = 23.4 2-14½×$\frac{5}{8}$ = 18.1	4.93	41.5			
U9-L8	+393	+113	+506	2-15 WI 40# = 23.4 = 18.8_N 2-14½×$\frac{9}{16}$ = 16.3 = 14.1_N		39.7	32.9		
U9-L10	-443	-119	-562	2-18 WI 42.7# = 25.0 2-17½×$\frac{3}{8}$ = 26.3	5.86	51.3			D.L. 5×½ 2-Rivets.
U11-L10	-620	-153	-773	2-18 WI 42.7# = 25.0 2-17½×$\frac{11}{16}$ = 24.1	5.62	75.4			
U11-L12	+498	+128	+626	2-15 WI 50# = 29.3 = 23.7 $_N$ 2-14½×$\frac{3}{4}$ = 21.0 = 18.8 $_N$		51.1	42.5		D.L 2½×½ 1-Rivet
U13-L12	-465	-126	-591	2-15 WI 50# = 29.3 4-14½×½ = 29.0	4.74	58.3			D.L-5×½ 2-Rivets.
U13-L14	+332	+99	+431	2-15 WI 55#		32.2	29.0		
U15-L14	-195	-79	-274	2-15 WI 45#	5.33	26.3			
U15-L16	+73	+60	+133	2-15 WI 35#		20.6	18.0		D.L 2½×½ 1-Rivet
U17-L16	+96	+74	+169 E.S. -340	2-15 WI 45#	5.33	26.3	23.8		
U17-L18	-201	-87	-288	2-15 WI 50#	5.24	29.3			
U19-L18	+325	+110	+435	2-15 WI 35# = 20.5 = 16.3_N 2-14½×½ = 14.5 = 12.5_N		35.0	28.8		
U19-L20	-387	-119	-506	2-18 WI 42.7# = 25.0 2-17½×$\frac{11}{16}$ = 24.1	5.90	49.1			D.L-5×½ 2 Rivets.
U0-L0	-33	-24 W -58	-57	2-12 WI 30# same section for {U2-L2, U4-L4, U6-L6, U8-L8, U12-L12 U14-L14, U16-L16, U18-L18, U20-L20}		17.6			S.L. 2½×½ 1-Rivet.
U1-L1				2-12 WI 25# same section for {U3-L3, U5-L5, U7-L7, U9-L9, U11-L11 U13-L13, U15-L15, U17-L17, U19-L19}		14.6			
U2-L2	-65	-47	-112	2-12 WI 30# Same section for {U4-L4, U6-L6 U8-L8}		17.6			
U10-L10	-75	-49 W -169	-124	2-15 WI 40		23.4			
U12-L12	-85	-50	-135	2-12 WI 30# same section for {U14-L14, U16-L16 U18-L18}		17.6			
U20-L20	-43	-25 WI 101	-68	2-12 WI 30#					

E.S. = Cantilever erection stresses.



ELEVATION OF TRUSSES

LAKE CHAMPLAIN BRIDGE COMMISSION
NEW YORK --- VERMONT

LAKE CHAMPLAIN BRIDGE

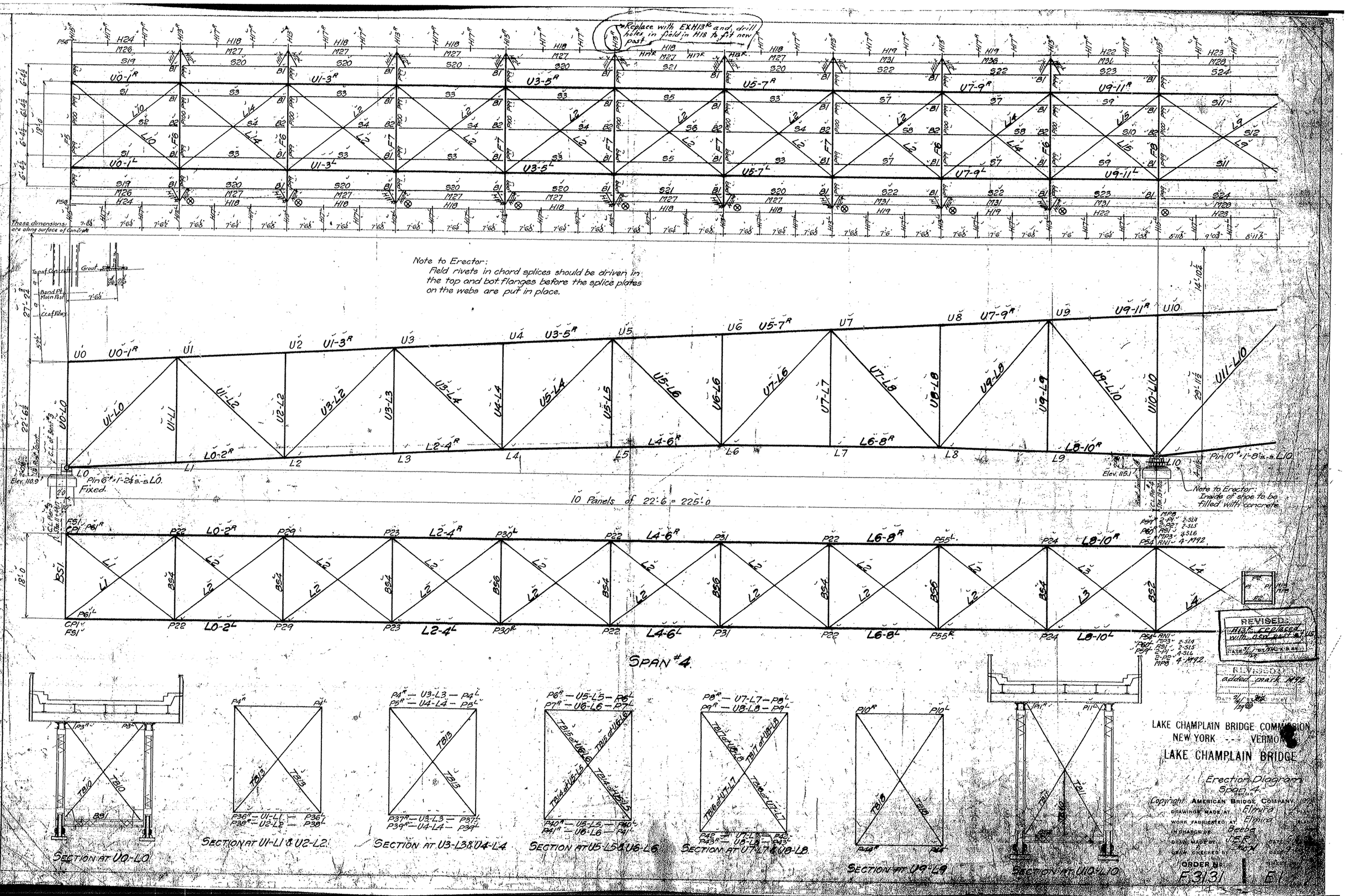
Spans No. 4 & 5
Stress Sheet

MADE BY
AMERICAN BRIDGE COMPANY.

DRAWINGS MADE AT Elmira PLANT.
WORK FABRICATED AT PLANT.
IN CHARGE OF R. C. Beebe
DRAW. MADE BY R.P.H. DATE 6-25-28.
DRAW. CHECKED BY [illegible] DATE 6-26-28.

ORDER No. F3(3)

SHEET NO. 02



Replace with EXH13R and drill holes in field in H18 to fit new post
These dimensions are along surface of Concrete
Note to Erector:
Field rivets in chord splices should be driven in the top and bot. flanges before the splice plates on the webs are put in place.
Pin 6" x 1-2¼ s.-s. L0.
Fixed.
Pin 10" x 1-8 s.-s. L10.
Note to Erector: Inside of shoe to be filled with concrete
10 Panels of 22'-6" = 225'-0
SPAN #4
SECTION AT U0-L0
SECTION AT U1-L1 & U2-L2
SECTION AT U3-L3 & U4-L4
SECTION AT U5-L5 & U6-L6
SECTION AT U7-L7 & U8-L8
SECTION AT U9-L9
SECTION AT U10-L10
REVISED
H13R replaced with new post at U5
REVISED
added mark M92
LAKE CHAMPLAIN BRIDGE COMMISSION
NEW YORK - - - VERMONT
LAKE CHAMPLAIN BRIDGE
Erection Diagram
Span 4
Copyright AMERICAN BRIDGE COMPANY
DRAWINGS MADE AT Elmira
WORK FABRICATED AT Elmira
IN CHARGE OF Beebe
DRAW MADE BY J.E.R.
DRAW CHECKED BY
ORDER No. F.3131
E1

Replace with EXHH^R and drill holes in field in H21 to fit new post.

U11-13^R U13-15^R U15-17^R U17-19^R U19-20^R

U11-13^L U13-15^L U15-17^L U17-19^L U19-20^L

"U16^L is to be extended in the field to facilitate the alignment of the railing"

U11 U12 U13 U14 U15 U16 U17 U18 U19 U20

U11-L11 U11-L12 U12-L12 U13-L12 U13-L13 U13-L14 U14-L14 U15-L14 U15-L15 U15-L16 U16-L16 U17-L16 U17-L17 U17-L18 U18-L18 U19-L18 U19-L19 U19-L20 U20-L20

L10-12^R L12-14^R L14-16^R L16-18^R L18-20^R

L10-12^L L12-14^L L14-16^L L16-18^L L18-20^L

Note to Erector:
Field rivets in chord splices should be driven in the top and bot flanges before the splice plates on the webs are put in place.

Shims P117 to P122 to be used to produce the required stagger in U9-11.

Anchor bolts for Span 5 on Pier 5 are set 1-7 above masonry instead of 1'-4". See F5.1 letter 9/10/28

Elev. 126.0

Pin 6"ø x 1'-2 3/4" - 5.

L20

33'-6 1/2"

C.L. Pier #5 Sta. 16+91.61

10 Panels of 27'-0 = 270'-0

P25 P32^L P28 P33^L P27 P34^L P26 P35^L P29

L5 L6 L7 L8 L8A

B55 B56 B54 B53

SPAN #5

P12^R — U11-L11 — P12^L
P13^R — U12-L12 — P13^L
T2610 at U12-L12, T2610 at U12-L12, T2618 at U11-L11, T2618 at U11-L11
P45^R — U11-U1 — P46^L
P46^R — U12-L2 — P46^L
SECTION AT U11-L11 & U12-L12

P14^R — U13-L13 — P14^L
P15^R — U14-L14 — P15^L
T2622 at U13-L13, T2622 at U14-L14, T2621 at U13-L13, T2621 at U14-L14
P47^R — U13-L13 — P47^L
P48^R — U14-L14 — P48^L
SECTION AT U13-L13 & U14-L14

P16^R — U15-L15 — P16^L
P17^R — U16-L16 — P17^L
T2624 at U16-L16, T2624 at U15-L15, T2623 at U15-L16, T2623 at U16-L16
P49^R — U15-L15 — P49^L
P50^R — U16-L16 — P50^L
SECTION AT U15-L15 & U16-L16

P18^R — U17-L17 — P18^L
P19^R — U18-L18 — P19^L
T2626 at U18-L18, T2626 at U18-L18, T2625 at U17-L17, T2625 at U17-L17
P51^R — U17-L17 — P51^L
P52^R — U18-L18 — P52^L
SECTION AT U17-L17 & U18-L18

P20^R P20^L
T2627 T2627
P53^R P53^L
SECTION AT U19-L19 = U18 Fence Post & Curb

15'-1"
15'-2"
12'-0"
9"
3'-1"
Grout to line up railing
2-5x3½x½ L's 4'-9" long
2 Barrier Weeks
6'-0"
C. Bridge
C. Roadway
Line of Curbing
15'-10"

P21^R P21^L
T2612 T2612

LAKE CHAMPLAIN BRIDGE COMMISSION
NEW YORK — VERMONT
LAKE CHAMPLAIN BRIDGE
Erection Diagram
Span 5.

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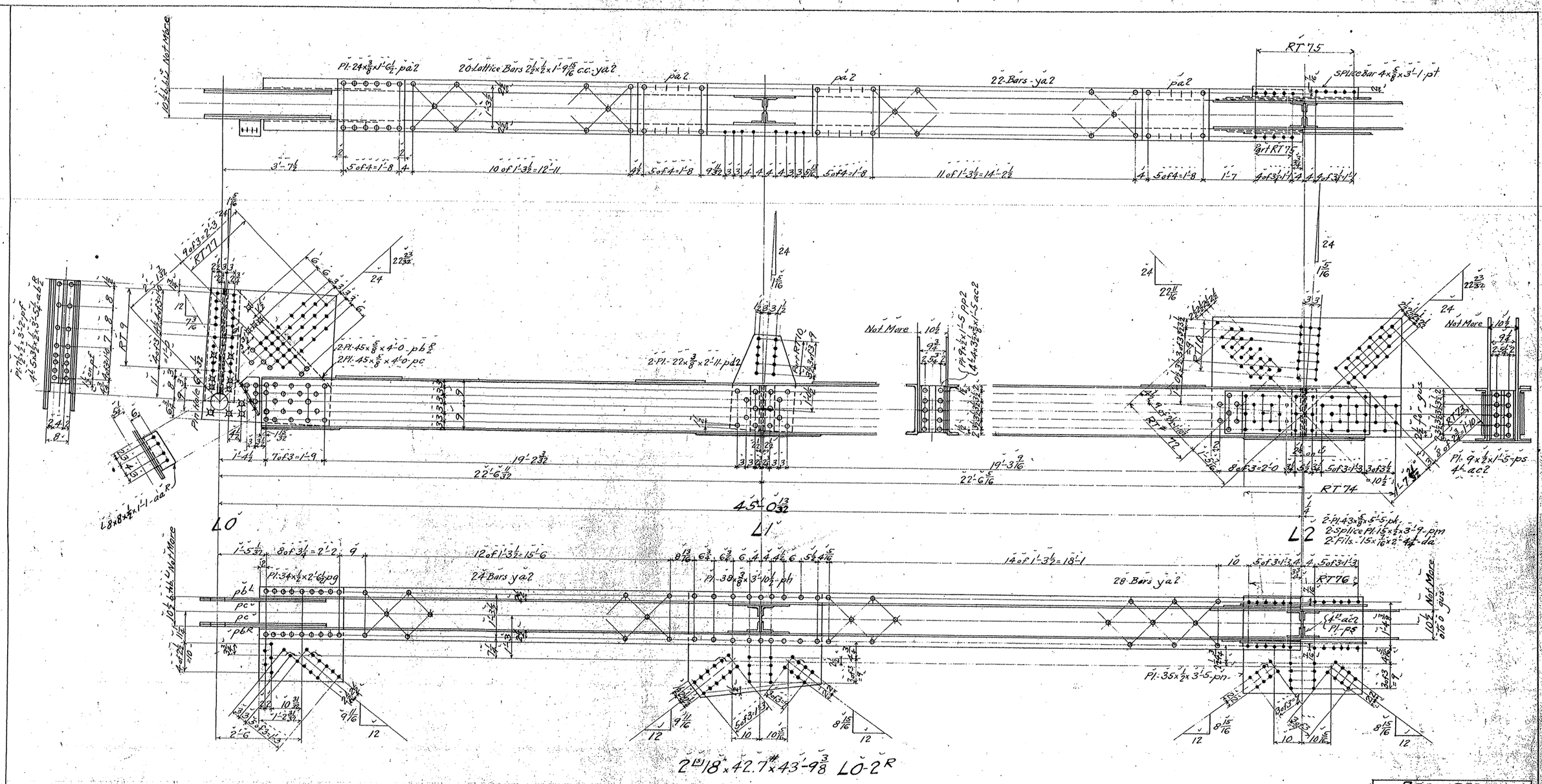
DRAWING MADE AT Elmira
WORK FABRICATED AT Elmira
IN CHARGE OF Beebe
DRAW MADE BY J.E.R.
DRAW CHECKED BY
ORDER NO. F 3131



REQUIRED		
1	BOT. CHORD	L0-2R
1	" "	L0-2L

NOTES:-

Spec. Lake Champlain Bridge Comn.
Rivets 7/8" dia.
Holes 15/16" dia. unless noted.
Field Connections marked RT to be sub-punched and reamed to a metal templet.

LAKE CHAMPLAIN BRIDGE COMMISSION
NEW YORK --- VERMONT

LAKE CHAMPLAIN BRIDGE

BOTTOM CHORD

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DRAWINGS MADE AT Elmira PLANT
WORK FABRICATED AT Elmira PLANT
IN CHARGE OF R.C. Beebe
DRAW. MADE BY J.G.G. & F.A.S. DATE 6-22-28
DRAW. CHECKED BY J.G.H. DATE 8-28-28

ORDER No. F3131 SHEET NO. 2

S2

Part RT 75

Pl-24×3/8×1'-7 3/8 pa

20-Lattice Bars 2 1/2×1/2×1'-11 1/8 co. ya

pa

pa

20-Bars ya

pa

RT 75

Bend Line

4 4 4 of 3 1/4 = 1'-1

Bent Bar 4×5/8×3'-1-ha R

Part RT 75

4 of 3 1/4 = 1'-1

1'-6 15/16

5 of 4 = 1'-8

6

10 of 1'-4 3/8 = 13'-7 1/8

6

5 of 4 = 1'-8

4 3 3 3 4 4 4 4 3 3 6

5 of 4 = 1'-8

6

10 of 1'-4 3/8 = 13'-7 1/8

6

5 of 4 = 1'-8

1'-5 1/16

Part RT 75

4 of 3 1/4 = 1'-1

3/4

Bend Line

10 1/2 Not Less

1'-4 3/8

2'-1 1/8

2'-2 1/2

24

1 5/16

1 1/2 3 1 1/2

Part RT 74

2 Pl-22×3/8×2'-11-pd2

Not More 10 1/2

9 3/4

2 5/8

2 Pl-9 3/4×1/2×5'-0 pp2

4 L-4×3 1/2×3/8×1'-5 oc2

3 3 3 3 3 6

5 of 3'-1 1/2 = 15'-7 1/2

28 of 8 = 18'-8

22'-6 15/16

28 of 8 = 18'-8

22'-6 15/16

24

22 23/32

2 Pl-4 1/2×3/4×5'-2 1/2 pb

2 Splice Pls-15 1/2×5/8×3'-10 pa

RT 11

RT 78

8 of 3 = 2'-0

RT 79

8 of 3'-2 1/2 = 2'-0

RT 80

8 of 3'-1 1/2 = 2'-0

2 Pl-4 1/2×3/4×5'-2 1/2 pb

2 Pl-15 1/2×5/8×3'-10 pa

24

1/2

1/4

L2

45'-0 1/8 (on working line)

L3

L4

REQUIRED

1 -	Bot. CHORD	L2-4R
1 -	" "	L2-4L

4 4 of 3'-1 1/2 = 12'-6

5 of 3'-1 1/2 = 15'-7 1/2

10 3/16

13 of 1'-4 3/8 = 17'-8 1/2

26-Bars ya

9 7/8 5 5 5 5 4 4 5 5 5 10 1/8

Pl-35×3/8×3'-5 pd

13 of 1'-4 3/8 = 17'-8 1/2

26-Bars ya

10 3/16 5 of 3'-1 1/2 = 15'-7 1/2

4 of 3'-0 = 12'-0

RT 76

Bend Line

10 1/2 Not More

1'-4 3/8

2'-1 1/8

2'-2 1/2

Part RT 76

Part RT 76

Bent Pl-35×1/2×3'-5-hb R

Shown developed.

2 L 18×42.7#×45'-0 1/4

2 Pl-17 1/2×1/2× 45'-0 1/4

} L2-4R

Pl-8 1/2×1/2×1'-5-pg

4 L-4×3 1/2×3/8×1'-5-aa R 2

Detail of Diaphragm at L4

Cut on ℄ of L4

NOTES:-

Spec. Lake Champlain Bridge Comm.

Rivets 7/8" dia.

Holes 15/16 dia.

Field Connections marked RT to be subpunched & reamed to a metal template

Sheared edges of gussets over 1/2 thick planed 1/2"

LAKE CHAMPLAIN BRIDGE COMMISSION

NEW YORK - - - VERMONT

LAKE CHAMPLAIN BRIDGE

BOTTOM CHORD

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DRAWING MADE AT Edmton PLANT

WORK FABRICATED AT PLANT

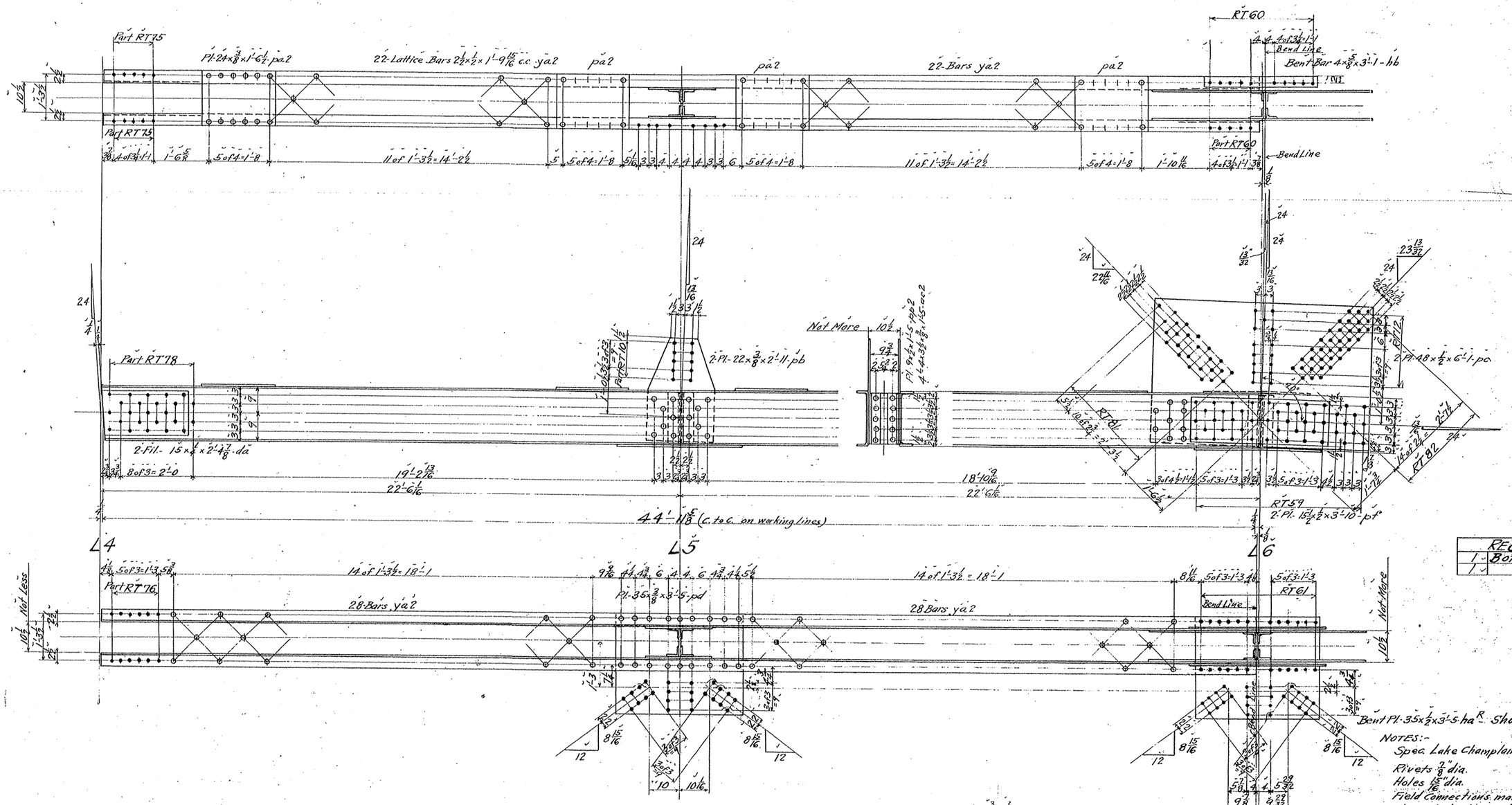
IN CHARGE OF R.C.Beebe

DRAW. MADE BY J.A.A. & F.A.S. DATE 6-25-28

DRAW. CHECKED BY [illegible] DATE 6-29-28

ORDER No. F317

SHEET NO. 4



REQUIRED		
1 -	Bot. Chord -	L4-6R
1 -	" -	L4-6L

Bent Pl-35×1/2×3'-5-ha R Shown developed.

NOTES:-
Spec. Lake Champlain Bridge Comm.
Rivets 7/8" dia.
Holes 15/16" dia.
Field Connections marked RT to be subpunched and reamed to a metal templet.

LAKE CHAMPLAIN BRIDGE COMMISSION
NEW YORK - - VERMONT

LAKE CHAMPLAIN BRIDGE

BOTTOM CHORD

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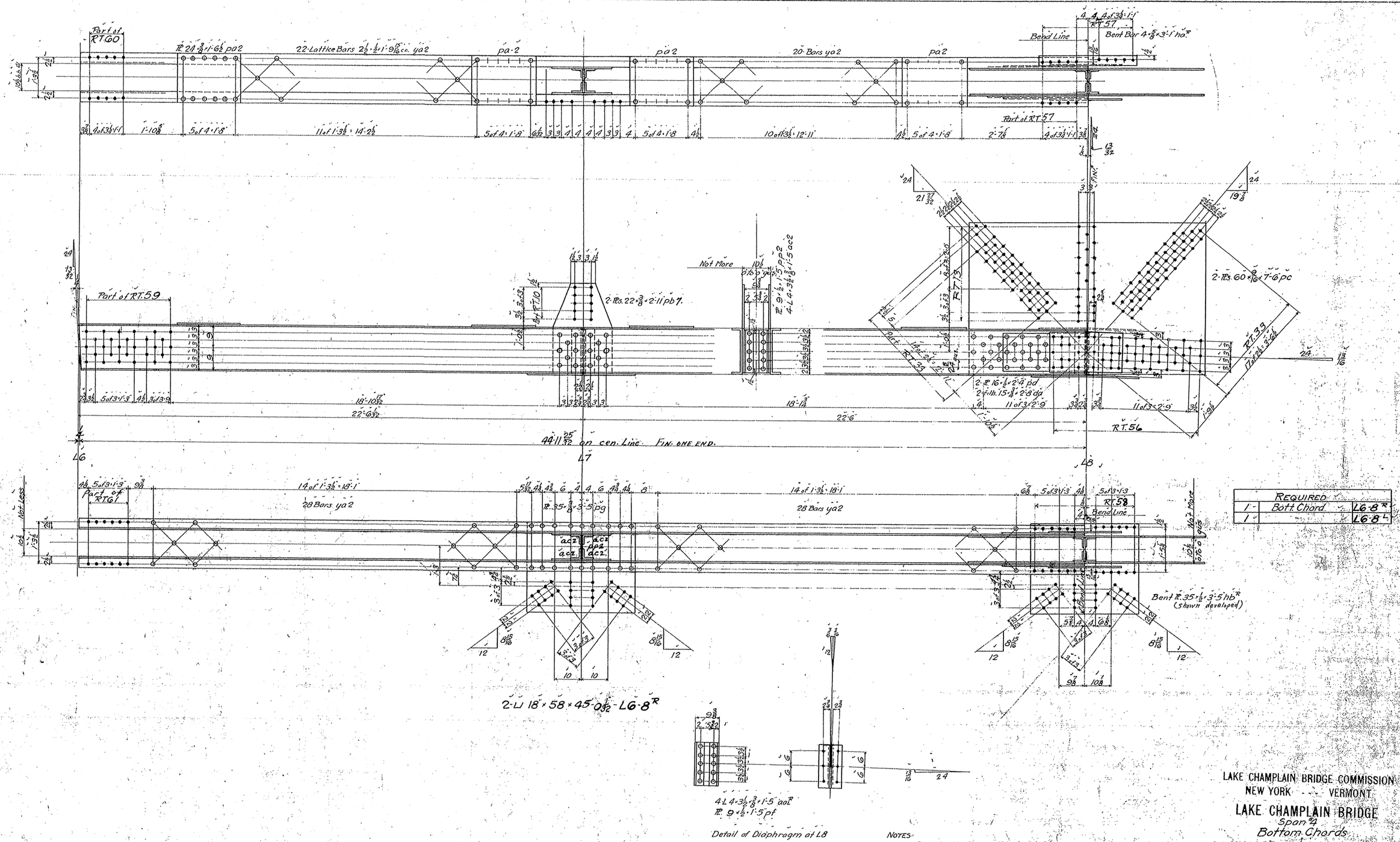
DRAWINGS MADE AT Elmira PLANT.
WORK FABRICATED AT Elmira PLANT.
IN CHARGE OF R.C. Beebe
DRAW. MADE BY T.A.C. & E.A.S. DATE 6-26-28
DRAW. CHECKED BY J.H.H. DATE 7-30-28

ORDER No. F3131 SHEET NO. 5



REQUIRED		
1	Bott. Chord	L6-8 R
1	"	L6-8 L

NOTES:
Specifications - Lake Champlain Bridge Commission
Rivets - 7/8"
Holes 15/16"
Field connections marked RT to be subpunched and reamed to a metal templet.

LAKE CHAMPLAIN BRIDGE COMMISSION
NEW YORK - - - VERMONT

LAKE CHAMPLAIN BRIDGE
Span #4
Bottom Chords

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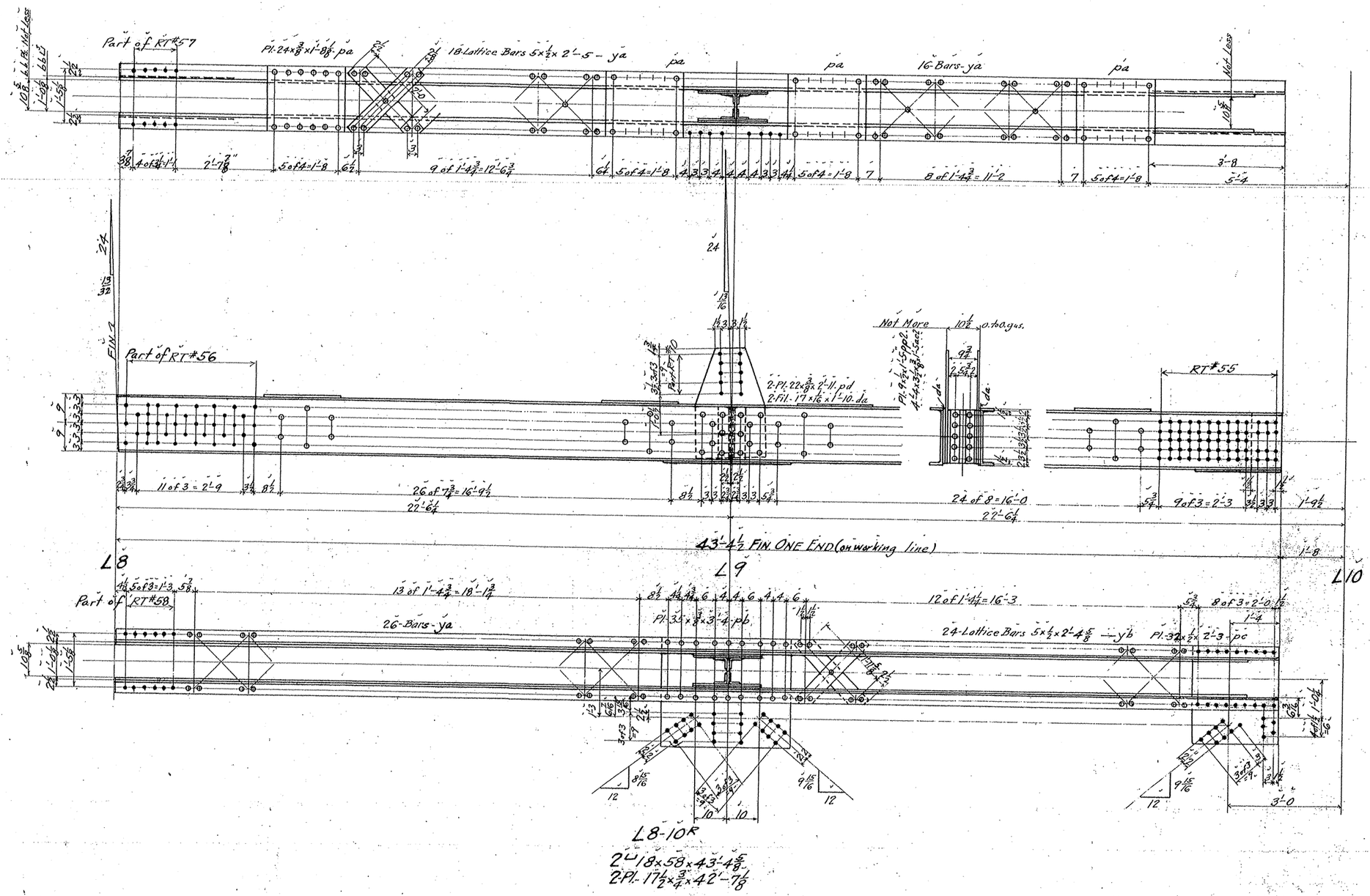
DRAWINGS MADE AT Elmira PLANT
WORK FABRICATED AT Elmira PLANT
IN CHARGE OF R.C. Beebe
DRAW. MADE BY J.G.G. R.A.H. DATE 7-2-28
DRAW. CHECKED BY F.T.H. DATE 8-30-28
ORDER No. F3131 SHEET No. 7

SHOP BILL PAGE 57



REQUIRED		
1	BOTT. CHORD	L8-10R
1	" "	L8-10L

NOTES:
Spec. Lake Champlain Bridge Comn.
Rivets 7/8" dia.
Holes 15/16" dia.
Field Connections marked RT to be sub-punched & reamed to a metal templet.

LAKE CHAMPLAIN BRIDGE COMMISSION
NEW YORK --- VERMONT

LAKE CHAMPLAIN BRIDGE

BOTTOM CHORD

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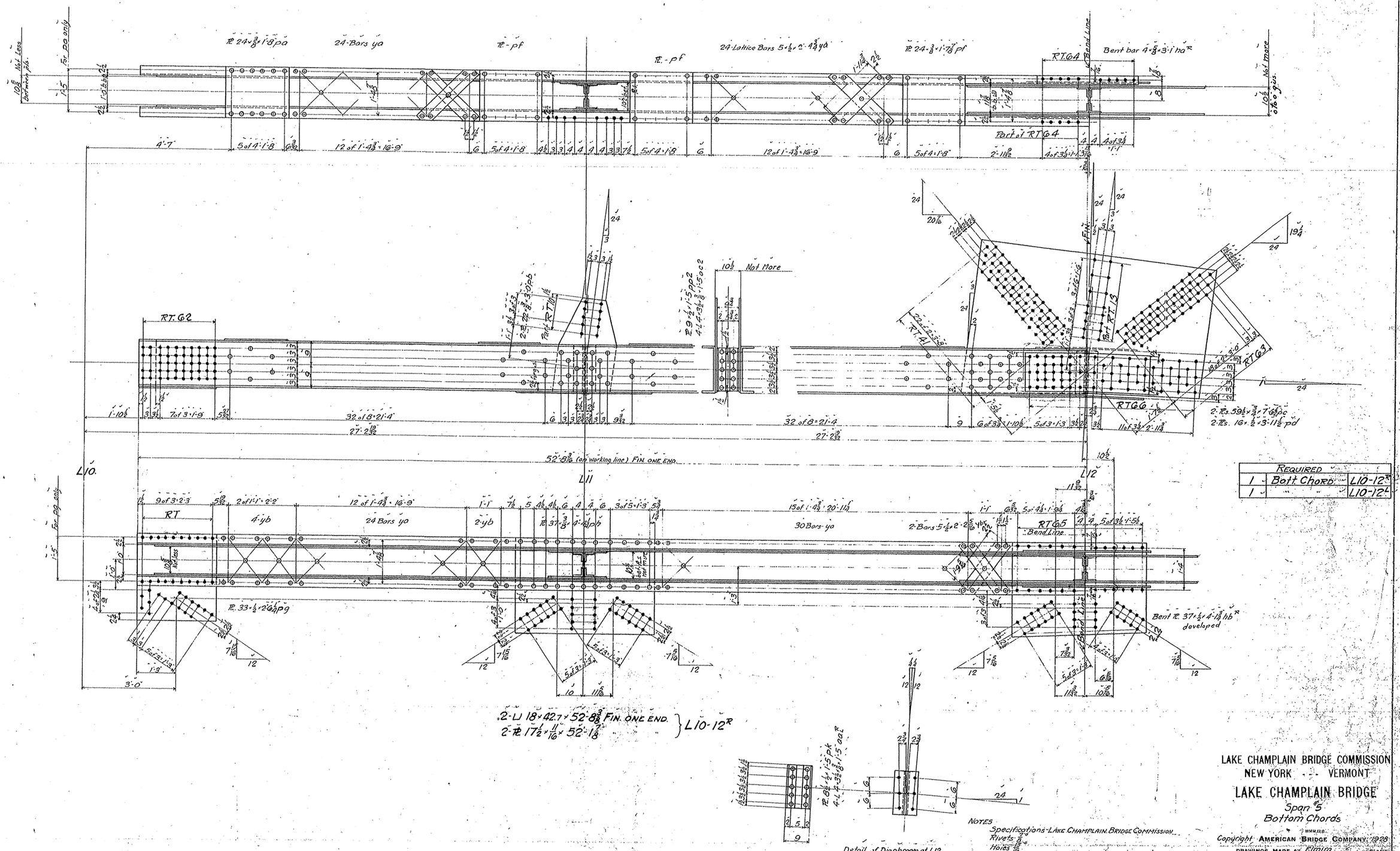
DRAWINGS MADE AT Elmira PLANT
WORK FABRICATED AT Elmira PLANT
IN CHARGE OF R.C. Beebe
DRAW. MADE BY J.G.G. & F.A.S. DATE 7-3-1928
DRAW. CHECKED BY F.O.H. DATE 8-24-28

ORDER No. F3131 SHEET NO. 8

Shop Bill Page 58



REQUIRED		
1	Bott Chord	L10-12R
1	" "	L10-12L

NOTES
Specifications-LAKE CHAMPLAIN BRIDGE COMMISSION
Rivets 7/8"
Holes 15/16"
Field connections marked RT to be subpunched and reamed to a metal templet.
Sheared edges of gussets over 5/8 thk planed 1/4.

Added 13 rivet holes in plate pd at L12
4/28/28 M

Shop Bill Page S9

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NEW YORK - - - VERMONT

LAKE CHAMPLAIN BRIDGE

Span #5
Bottom Chords

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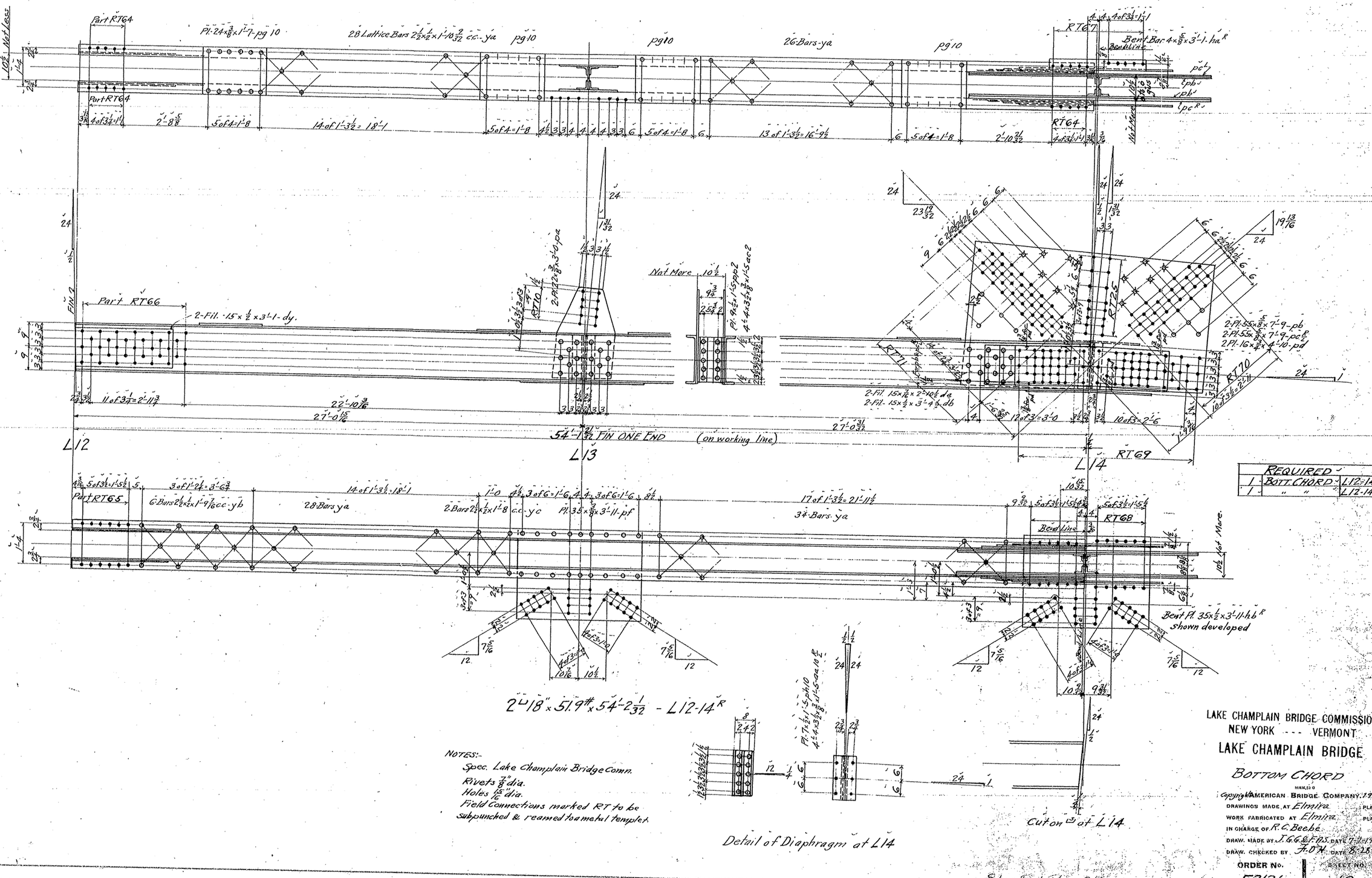
DRAWINGS MADE AT Elmira PLANT
WORK FABRICATED AT Elmira PLANT
IN CHARGE OF R.C. Beebe
DRAW. MADE BY IGG R.H. DATE 7-6-21
DRAW. CHECKED BY F.O.H. DATE 8-30-28
ORDER No. F3131 SHEET No. 9

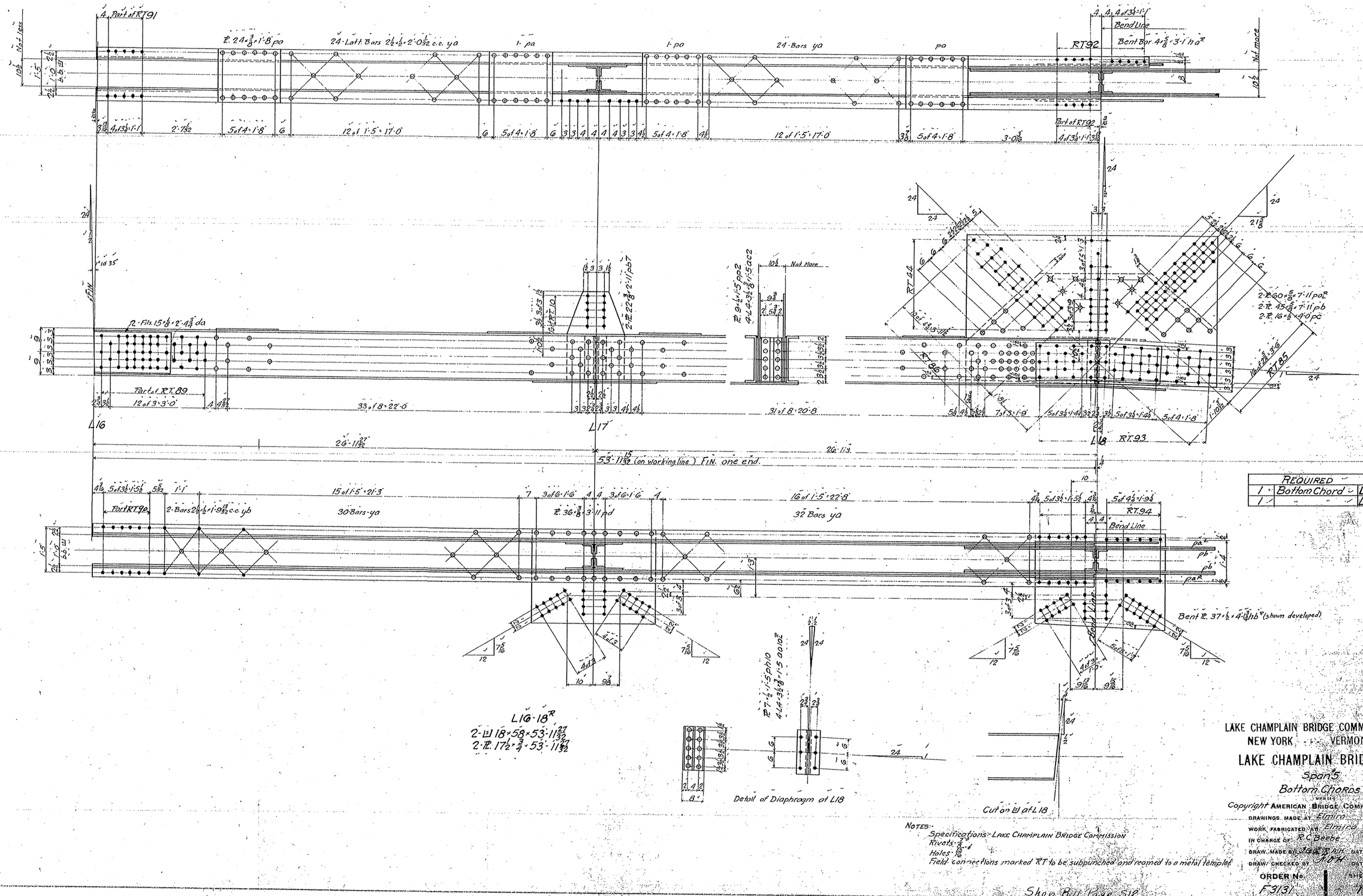

Part RT64
Pl. 24×⅞×1'-1"-pg 10
28 Lattice Bars 2½×½×1'-10 2/32 c.c.-ya
pg 10
pg 10
26-Bars-ya
pg 10
RT67
4 at 4 of 3¼ = 1'-1
Bent Bar 4×⅝×3'-1-ha R
Bend Line
pc L
pb
pb'
pc R
RT64
4 of 3¼ = 1'-1
Nat Line
Part RT64
4 of 3¼ = 1'-1
2'-8 5/8
5 of 4 = 1'-8
14 of 1'-3½ = 18'-1
5 of 4 = 1'-8
6
5 of 4 = 1'-8
6
13 of 1'-3½ = 16'-9½
6
5 of 4 = 1'-8
2'-10 21/32
3/16
Nat More
10½
24
1 31/32
Pl. 22×⅜×3'-0-pa
RT70
2-Pl. 22×⅜×3'-0-pa
Nat More 10½
9 3/16
2 5/8
2 2
Pl. 9½×1/2 Sp pa 2
4 L 4×3½×⅜×1'-5 ac 2
Part RT66
2-Fil. 15×½×3'-1-dy.
11 of 3¼ = 2'-11 3/4
2'-10 3/16
27'-0 15/16
54'-1 31/32 FIN ONE END (on working line)
27'-0 31/32
24
23 19/32
19 13/16
RT71
RT70
RT25
2-Pl. 55×⅜×7'-9-pb
2-Pl. 55×⅜×7'-9-pc R
2-Pl. 16×¾×4'-10-pd
2-Fil. 15×½×2'-10½-da
2-Fil. 15×½×3'-4¾-db
4 of 3 = 3'-0
10 of 3 = 2'-6
10 of 3½ = 2'-11
RT69
L12
L13
L14
Part RT65
5 of 3½-1-5½
3 of 1'-2¼ = 3'-6¾
6 Bars 2½×½×1'-9 7/16 cc-yb
14 of 1'-3½ = 18'-1
28 Bars ya
2 Bars 2½×½×1'-8 c.c.-yc
1'-0
7½
3 of 6 = 1'-6
4
4
3 of 6 = 1'-6
8½
Pl. 35×⅝×3'-11-pf
17 of 1'-3½ = 21'-11½
34 Bars ya
10 5/32
9 3/32
5 of 3½-1-5½
5 of 3½-1-5½
RT68
Bend Line
10½ Not More
Bent Pl. 35×½×3'-11.4b R
shown developed
2-Pl. 7×½×1'-5 ph 10
4 L 4×3½×⅜×1'-5 ac 10 L
2⅜
2⅜
8
24½
12
6
6
24
24
1½
24
1'
2⅜
2⅜
2⅜

Part RT67 — Pl. 24 × 3/8 × 1'-8 3/4 pf — 24 Lattice Bars 2 1/2 × 1/2 × 2'-1 3/32 c.c. ya — pf — pf — 24 Bars ya — pf — Bend Line — Bent Bar 4 × 5/8 × 3'-1 hb^R — RT91 — pb^L — pc — pc — pb^R — Not More 10 1/2 — Not Less 10 1/2

4 of 3 1/2 = 1'-1 — 2'-6 27/32 — 5 of 4 = 1'-8 — 12 of 1'-5 3/8 = 17'-9 — 5 of 4 = 1'-8 — 5 3 3 4 4 4 4 3 3 5 3/4 — 5 of 4 = 1'-8 — 12 of 1'-5 3/4 = 17'-9 — 5 of 4 = 1'-8 — 2'-10 9/16 — 4 of 3 1/2 = 1'-1

Part RT69 — 10 of 3 = 2'-6 — 4 5 5/32 5 — 34 of 7 1/2 = 21'-3 — 27'-0 3/32

2 Pl. 22 3/8 × 2'-11 pa — 1/2 3 1/2 — 24 — 24 — 24



REQUIRED		
1	Bottom Chord	L16-18 R
1	" "	L16-18 L

NOTES:-
Specifications:- LAKE CHAMPLAIN BRIDGE COMMISSION
Rivets: 7/8"
Holes: 15/16"
Field connections marked RT to be subpunched and reamed to a metal templet.

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NEW YORK - - - VERMONT

LAKE CHAMPLAIN BRIDGE

Span 5
Bottom Chords

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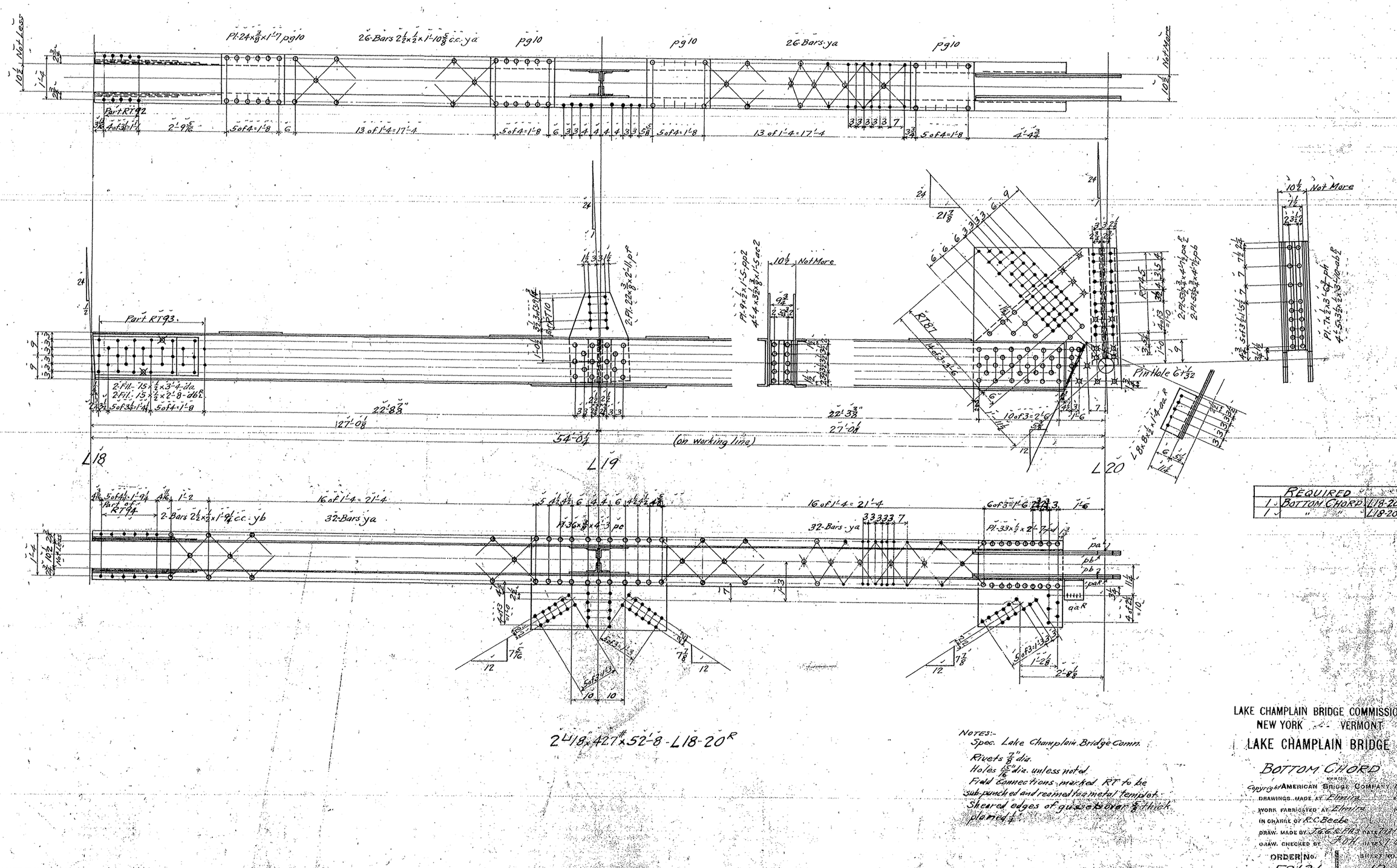
DRAWINGS MADE AT Elmira PLANT
WORK FABRICATED AT Elmira PLANT
IN CHARGE OF R.C. Beebe
DRAW. MADE BY J.G.G. RALH DATE 7-12-28
DRAW. CHECKED BY JOH DATE 9-6-28
ORDER No. F3131 SHEET No. 12

Shop Bill Page 512


Pl. 24×3/8×1'-7 pg 10
26-Bars 2 1/2×1/2×1'-10 5/8 c.c. ya
pg 10
pg 10
26-Bars ya
pg 10
10 1/2 Not Less
10 1/2 Not More
Part RT 92
4 of 3'-1"
2'-9 7/16"
5 of 4'-1"
6
13 of 1'-4 = 17'-4
5 of 4'-1"
6
3 3 3 4 4 4 4 4 3 3 5/8
5 of 4'-1"
13 of 1'-4 = 17'-4
3 3 3 3 3 7
3 3/4
5 of 4'-1"
4'-4 3/4"
Part RT 93.
2 Fill.-15×1/4×3'-4 da.
2 Fill.-15×1/4×2'-8-d6 R
5 of 3'-1 1/4
5 of 4'-1"
22'-8 5/8"
127'-0"
54'-0"
(on working line)
22'-3 3/8"
27'-0"
L 18
L 19
L 20
2 Pl. 24×3/8×2'-11 p*
Pl. 9×1/2×1'-5 pp 2
4 L 4×3 1/2×3/8×1'-5 oo 2
10 1/2 Not More
9 3/4
5 3/8
21 7/8
24
Rt 87
Holes 7'-11 1/2
10 of 3'-2 1/2
5 8
7'-6
12
Pl. 7×1/2×3'-1 1/2 z
2 Pl. 9 3/4×3/8×1'-5 oo 2
2 Pl. 5 3/8×3/8×1'-5 oo 6
4 of 3
4 of 3
4 of 3

REQUIRED		
1 ~	Top Chord ~	U0-1R
1 ~	" " ~	U0-1L

Notes:-
Specifications Lake Champlain Bridge Commission
Rivets ~ $\frac{7}{8}$"ϕ
Holes ~ $\frac{15}{16}$"ϕ
Field connections marked RT are to be sub-punched and reamed to a metal templet.

LAKE CHAMPLAIN BRIDGE COMMISSION
NEW YORK --- VERMONT

LAKE CHAMPLAIN BRIDGE

TOP CHORD

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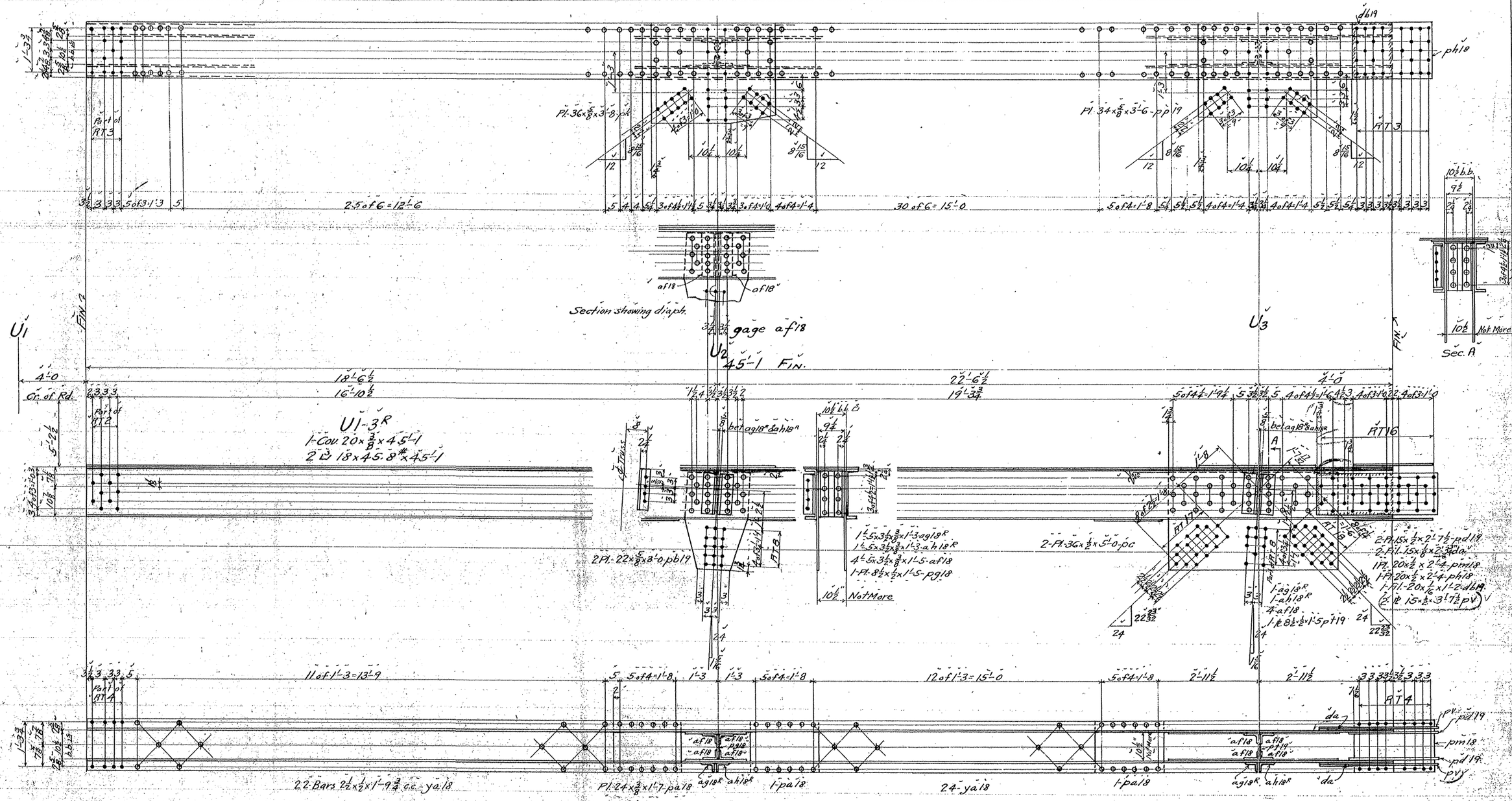
DRAWINGS MADE AT Elmira PLANT.
WORK FABRICATED AT Elmira PLANT.
IN CHARGE OF R.C. Beebe
DRAW. MADE BY B DATE 7-13-28
DRAW. CHECKED BY T.O.H. DATE 7-17-28
ORDER No. SHEET No.



REQUIRED		
1	TOP CHORD	U1-3R
1	" "	U1-3L

LAKE CHAMPLAIN BRIDGE COMMISSION
NEW YORK --- VERMONT

LAKE CHAMPLAIN BRIDGE

TOP CHORD

Notes:
Specifications Lake Champlain Bridge Commission
Rivets 5/8" dia.
Holes 15/16" dia.
Field connections marked RT are to be sub-punched and reamed to a metal templet.

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DRAWINGS MADE AT Elmira PLANT
WORK FABRICATED AT Elmira PLANT
IN CHARGE OF R.C. Beebe
DRAW. MADE BY C.P.&F.A.S. DATE 7-16-1928
DRAW. CHECKED BY F.O.H. DATE 7-19-1928
ORDER No. F3131 SHEET No. 19

REVISED:
2-pd19 chgd to pv
Length fil. da chgd
10/15 ... 369

U3 U4 U5

Fin. Fin.

4'-0 Ctr. of Rd

24 of 3 = 1'-0

Part of AT16

18'-6 17/32

16'-7 17/32

22'-6 1/4

18'-10

45'-1 1/32 Fin.

4'-0

4 of 5 = 1'-8

6 6 3 1/2 3 1/2 6 of 4 1/2 = 2'-3

6 1/2 3 of 3 = 9 2 2 3 of 3 = 9

Part of AT3

6 of 3 = 1'-6

24 of 6 = 12'-0

27 of 6 = 13'-6

Pl. 34 x 9/16 x 3'-6 pc

Pl. 34 x 9/16 x 3'-6 pp

ph18

AT3

Section showing diaphram gage af18

U3-5R
1-Cov. 20 x 7/16 x 45'-1 1/32
2 ⊔ 18 x 51.9 x 45'-1 1/32

bef. ag18R ah18R

AT2

AT1

AT4

AT5

AT6

AT7

AT8

AT9

AT10

AT11

AT12

AT13

AT14

AT15

2-Pl. 22 x 5/8 x 3'-0 pb19

1 1/2 - 5 x 3 1/2 x 3/8 x 1'-3 ag18R

1 1/2 - 5 x 3 1/2 x 3/8 x 1'-3 ah18R

4 1/2 - 5 x 3 1/2 x 3/8 x 1'-5 af18

1-Pl. 8 1/2 x 1/2 x 1'-5 pg18

2-Pl. 42 x 1/2 x 5'-9 pd

4-Pl. 15 x 1/2 x 2'-4 pk18

1-Pl. 20 x 1/2 x 2'-4 pk18

1-Pl. 20 x 1/2 x 2'-4 pm18

11 of 1'-3 = 13'-9

5 5 of 4 = 1'-8 1'-3 1/32 1'-2 1/2 5 of 4 = 1'-8 5 1/2

11 of 1'-3 = 13'-9

5 1/2 5 of 4 = 1'-8 3'-4 2'-11 1/2

22-Bars 2 1/2 x 2 x 1'-9 3/4 c.c. ya18

1Pl. 24 x 3/8 x 1'-7 pa18

1-pa18

22-ya18

1-pa18

ag18R ah18R

pk18 pm18 pk18

Sec. A

10 1/2 Not More

REQUIRED		
1	TOP CHORD	U3-5
1	" "	U3-5

NOTES:—
Specifications Lake Champlain Bridge Commission
Rivets 7/8" dia.
Holes 15/16 dia.
Field connections marked AT are to be sub-punched and reamed to a metal templet.

LAKE CHAMPLAIN BRIDGE COMMISS
NEW YORK --- VERMONT
LAKE CHAMPLAIN BRIDGE

TOP CHORD

NNH 13 0

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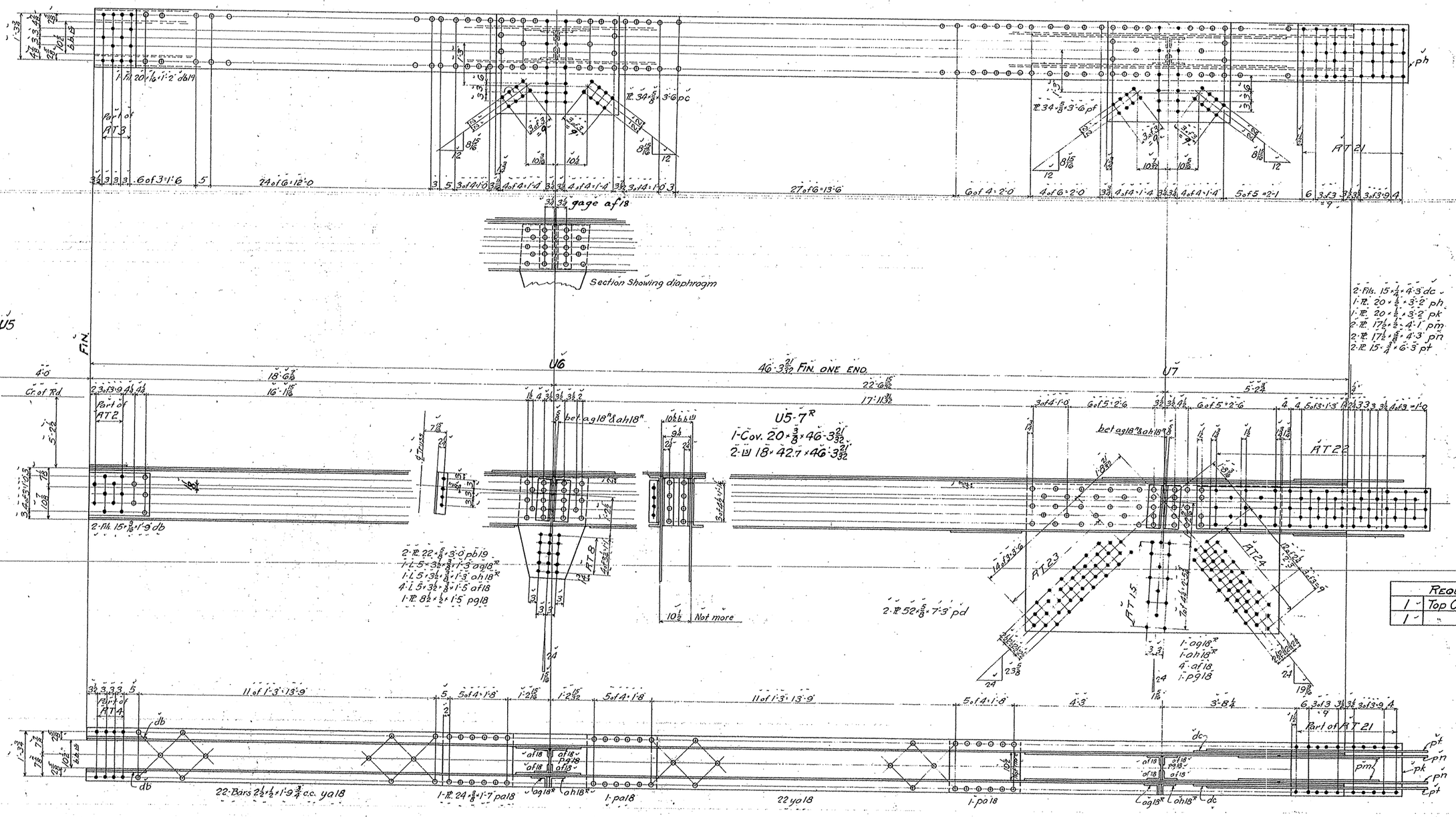
WORK FABRICATED AT Elmira
IN CHARGE OF R.C. Beebe
DRAW. MADE BY C.P. Ellis DATE 7
DRAW CHECKED BY [illegible] DATE 7

ORDER No. F3131

SHEET NO. 20

520.



REQUIRED		
1	Top Chord	U5-7R
1	" "	U5-7L

Notes:
Specifications Lake Champlain Bridge Commission.
Rivets 7/8" dia.
Holes 15/16" dia.
[illegible]
sub-punched and reamed to a metal templet.

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NEW YORK - - - VERMONT

LAKE CHAMPLAIN BRIDGE
Span 4
Top Chords

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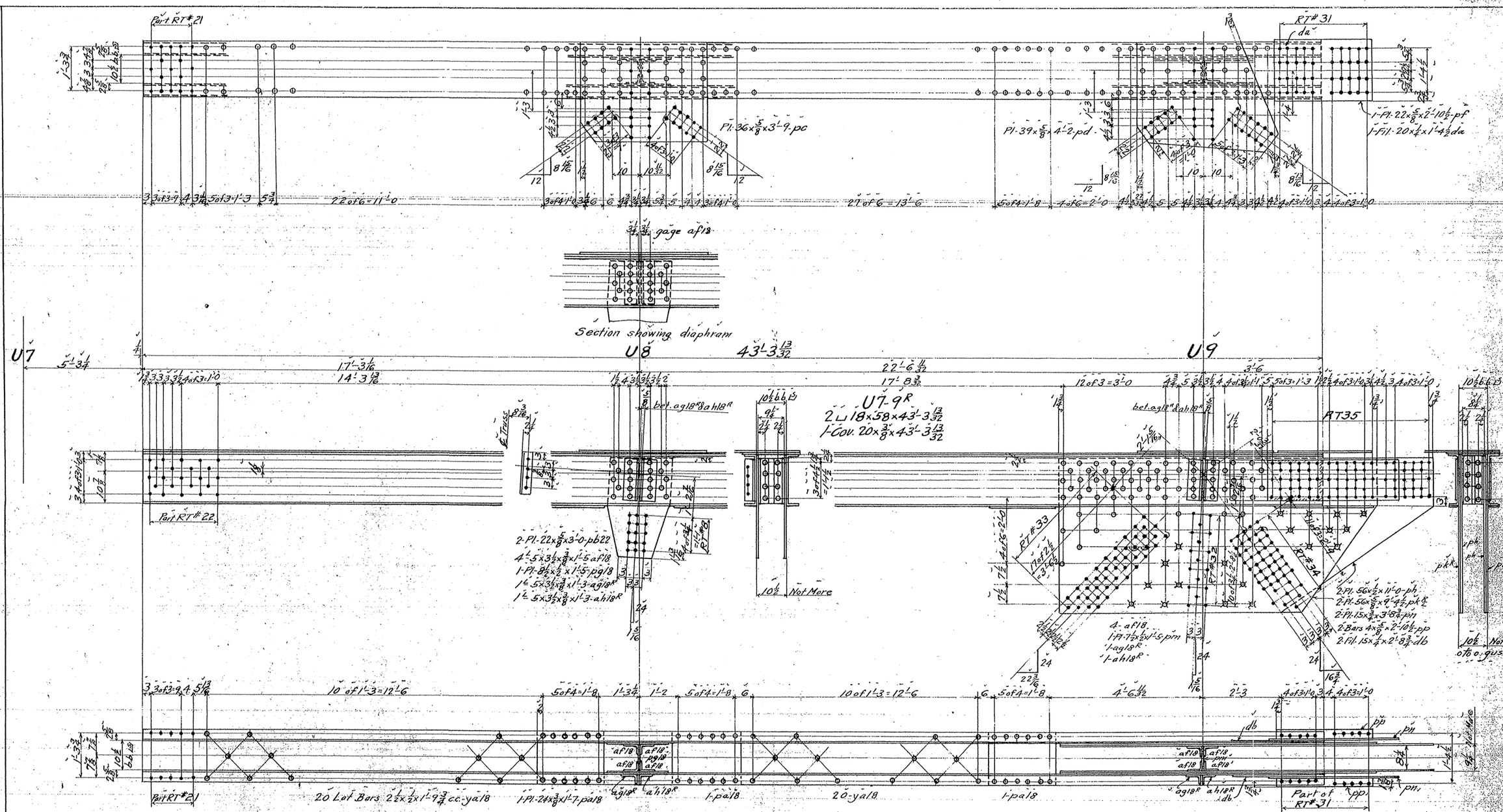
WORK FABRICATED AT Elmira
IN CHARGE OF R. C. Beebe
DRAW. MADE BY P. R.A.H. DATE 7-16
DRAW. CHECKED BY F.O.H. DATE 7-20
ORDER No. F3131
SHEET No. 21



REQUIRED		
1	TOP CHORD	U7-9R
1	" "	U7-9L

NOTES.-
Spec. Lake Champlain Bridge Comm.
Rivets 7/8" dia
Holes 15/16" dia
Field Connections marked RT to be sub punched and reamed to a metal templet.

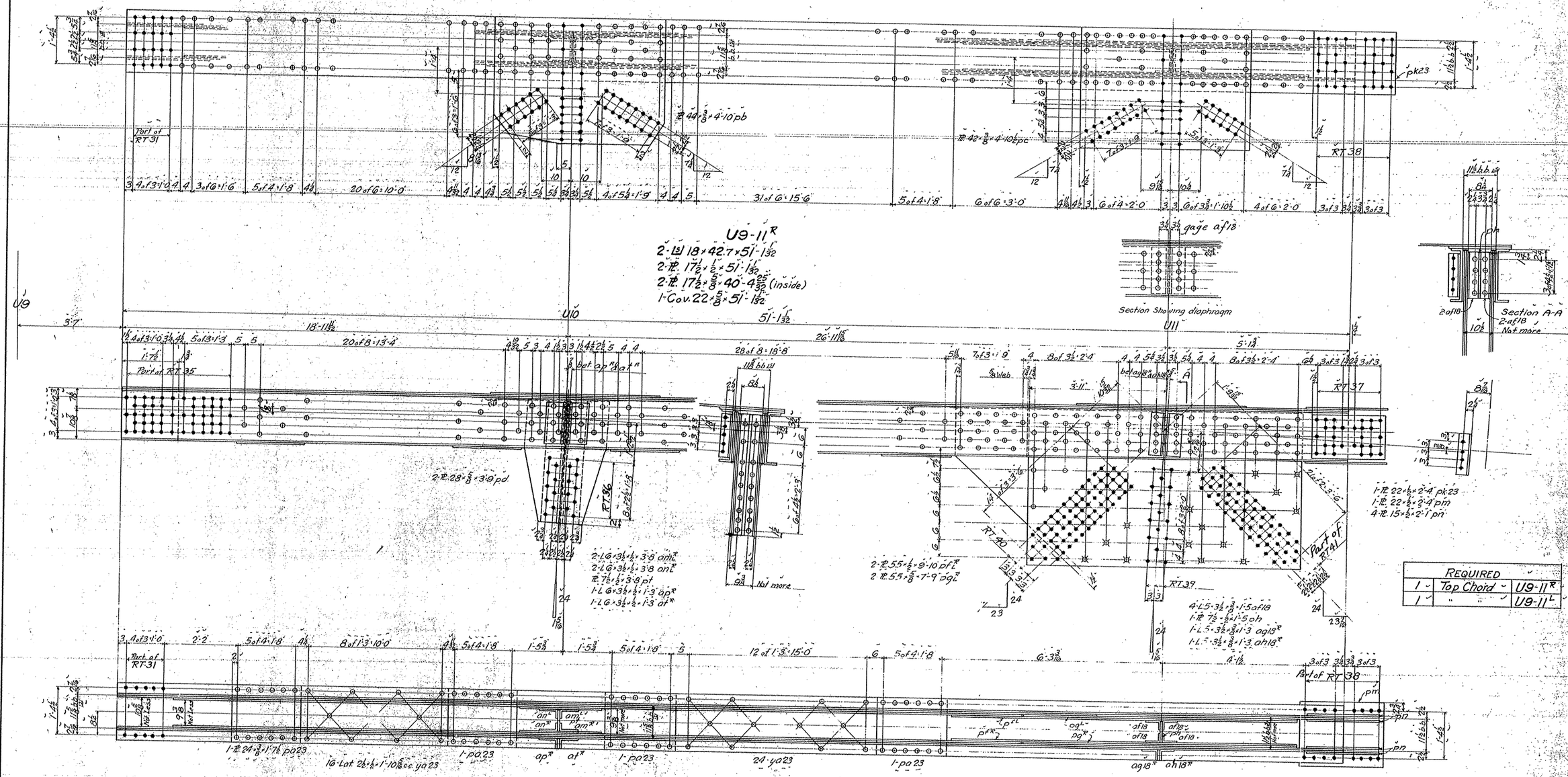
LAKE CHAMPLAIN BRIDGE COMMISS
NEW YORK --- VERMONT
LAKE CHAMPLAIN BRIDGE

TOP CHORD

copyright AMERICAN BRIDGE COMPANY

DRAWINGS MADE AT
WORK FABRICATED AT Elmira
IN CHARGE OF R.C. Beebe
DRAW. MADE BY C.P. & F.A.S. DATE
DRAW. CHECKED BY F.O.H. DATE
ORDER No. F3131
SHEET 22

522



REQUIRED		
1	Top Chord	U9-11R
1	" "	U9-11L

LAKE CHAMPLAIN BRIDGE COMMISSION
NEW YORK --- VERMONT

LAKE CHAMPLAIN BRIDGE

Spans 4 5
Top Chords

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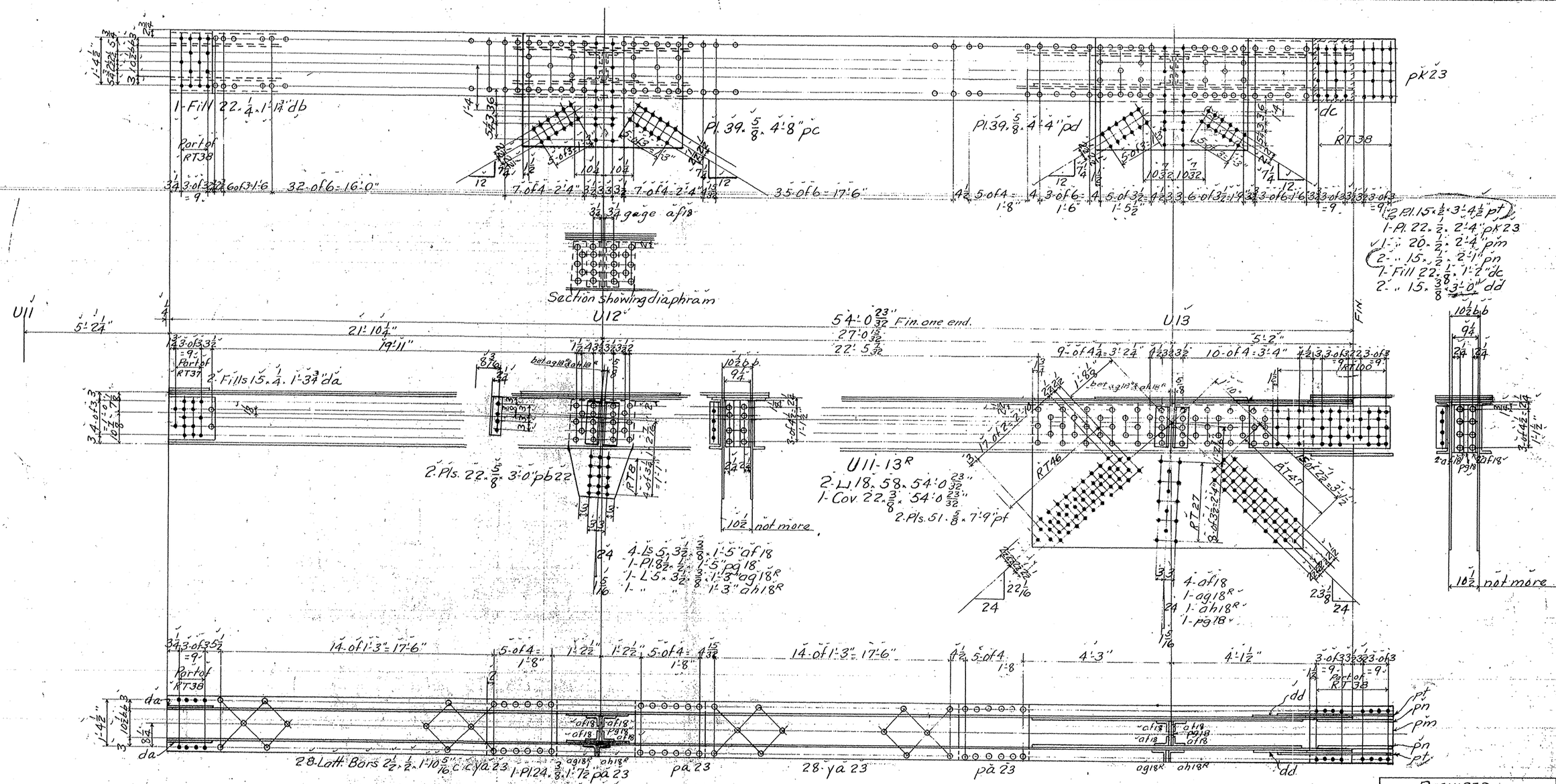
NOTES:-
Specifications - LAKE CHAMPLAIN BRIDGE COMMISSION
Rivets - 7/8"
Holes 15/16"
Field connections marked RT to be subpunched and reamed to a metal templet

DRAWINGS MADE AT Elmira
WORK FABRICATED AT Elmira
IN CHARGE OF R.C. Beebe
DRAW. MADE BY P.R.A.H. DATE 7-17-
DRAW. CHECKED BY F.O.H. DATE 8-18-
ORDER No. F3131
SHEET NO. 23

SHOP BILL PART S23



REQUIRED		
1	Top Chord	U11-13R
1	" "	U11-13L

LAKE CHAMPLAIN BRIDGE COMMISSI
NEW YORK --- VERMONT

LAKE CHAMPLAIN BRIDGE

Top Chords

Notes.-
Specifications Lake Champlain Bridge Commission
Holes 15/16 φ
Field connections marked RT to be sub-punched and reamed to a metal templet.

2 pn chg to pt. Fil. dd
chged RT 37 @ U13
chgd to RT 100
Holes φ

DRAWINGS MADE AT Elmira PLA
WORK FABRICATED AT Elmira PLA
IN CHARGE OF R.C. Beebe
DRAW. MADE BY C.P.M.T. DATE 7/16/2
DRAW. CHECKED BY F.O.H. DATE 8-20-

ORDER No. F3131 SHEET NO. 24

U13

U14

U15

Sec. C-C

53'-1 7/32" FIN.

Sec. A

Sec. B

Not more

Diaphragm

Part of RT38

Part of RT100

Part of RT101

Part of RT28

Part of RT48

Part of RT78

Part of RT138

Part of RT148

U13-15R

1-Cov. 22"×1/2"×53'-1 7/32"
2-Lsl-18"×42.7#×53'-1 7/32"
2-Webs-17 1/2"×5/8"×53'-1 7/32"

1-Fil. 22"×1/2"×1'-6 1/2" db

1-Fil. 15"×3/8"×2'-11 1/2" da

1-Fil. 3"×1/2"×6" fa25

1-Fil. 2"×1/2"×1'-0" fa25

2-Fil. 2"×1/2"×2'-0" fa25

1-Fil. 2"×1/2"×1'-0" fa25

1

U15

U16

U17

54'-0¼" FIN.

1-Cov. 22"×⅝"×54'-0¼"
U15-17 4-Webs 17½"×½"×54'-0¼"
2-[] 18"×42.7#×54'-0¼"

REQUIRED		
ONE	TOP CHORD	U15-
ONE	" "	U15-

Notes:
Specifications - Lake Champlain Bridge Commission
Rivets ⅞"ø
Field connections marked RT to be subpunched and reamed to a metal templet.

RT16 chg. to RT101
India chge. to PM

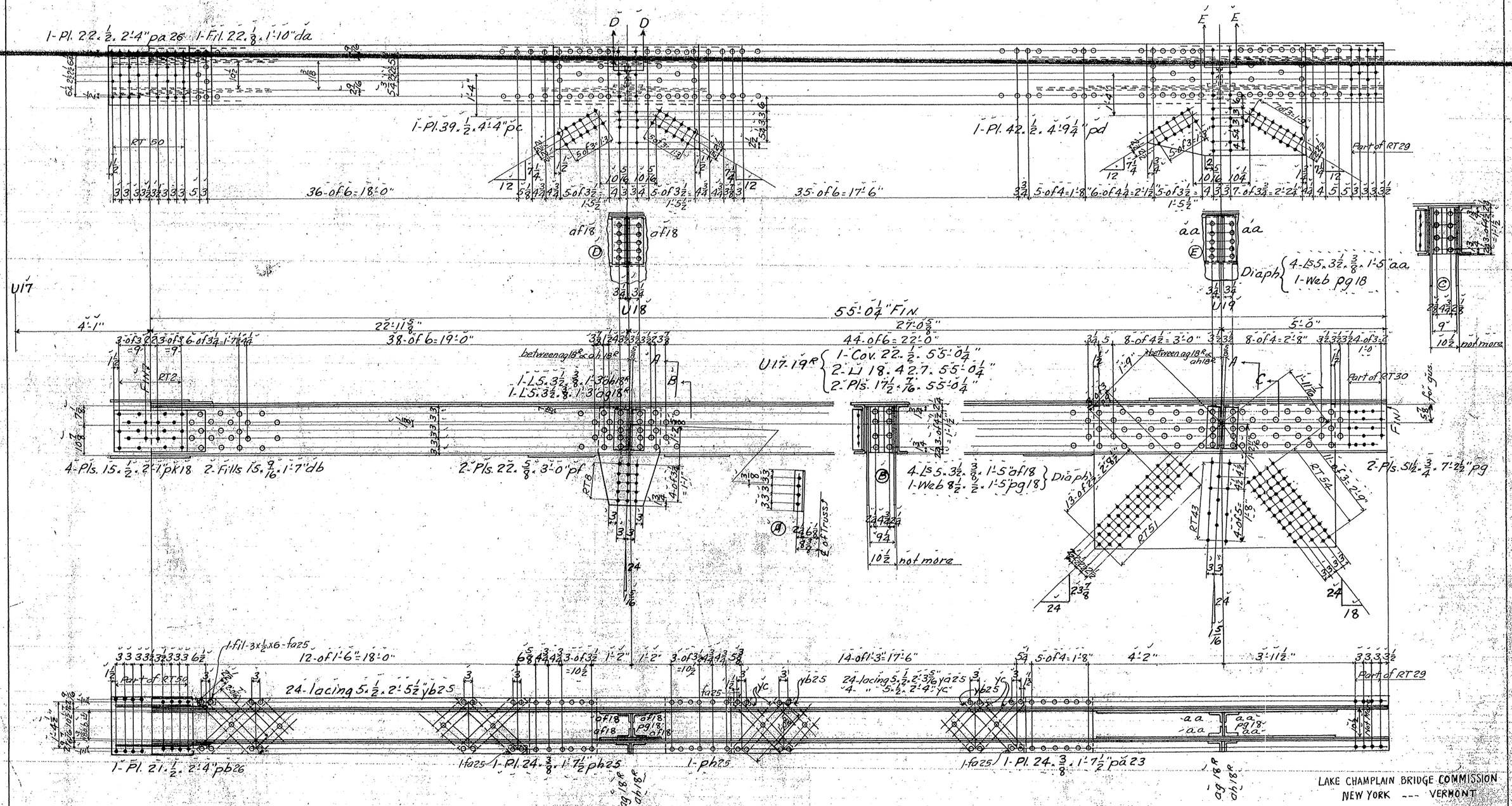
LAKE CHAMPLAIN BRIDGE COMMISSION
NEW YORK --- VERMONT
LAKE CHAMPLAIN BRIDGE

Span 5
Top Chords

DRAWINGS MADE AT Elmira
WORK FABRICATED AT Elmira
IN CHARGE OF R.C. Beebe
DRAW. MADE BY E.C.M. R.A.H. DATE 8
DRAW. CHECKED BY A.D.H. DATE 8-2

ORDER No. F3131

SHEET NO. 26



LAKE CHAMPLAIN BRIDGE COMMISSION
NEW YORK --- VERMONT

LAKE CHAMPLAIN BRIDGE

REQUIRED		
1	TOP CHORD	U17-19R
1	" "	U17-19L

Notes:
Specifications: Lake Champlain Bridge Commission
Rivets 7/8"
Holes 15/16"
Main field connections marked "RT" to be sub-punched & reamed to a metal templet.
Sheared edges of gussets over 5/8" thick planed 1/4"

Top Chords

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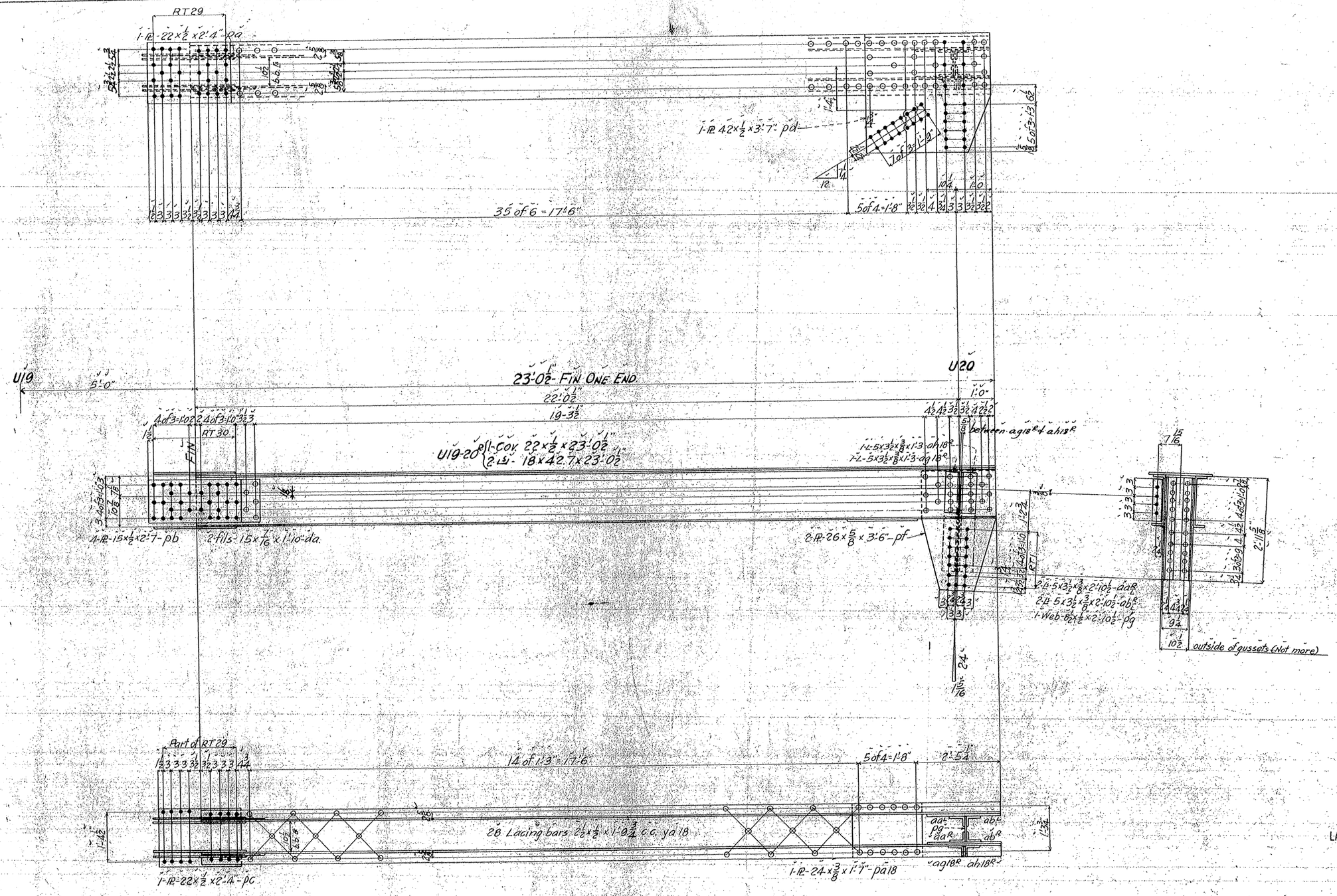
DRAWINGS MADE AT Elmira PLANT
WORK FABRICATED AT Elmira PLANT
IN CHARGE OF R.C. Beebe
DRAW. MADE BY E.C.M. M.T. DATE 7/30/28
DRAW. CHECKED BY F.O.H. DATE 8-11-28

ORDER No. F3131

SHEET NO. 27



REQUIRED		
ONE	TOP CHORD	U19-2
ONE	TOP CHORD	U19-2

Notes:-
Specifications Lake Champlain Bridge Commission
Rivets - ⅞ ø
Holes - 7/16 ø
Field connections marked RT are to be sub-punched and reamed to a metal templet.

LAKE CHAMPLAIN BRIDGE COMMISSION
NEW YORK VERMONT
LAKE CHAMPLAIN BRIDGE

TOP CHORD

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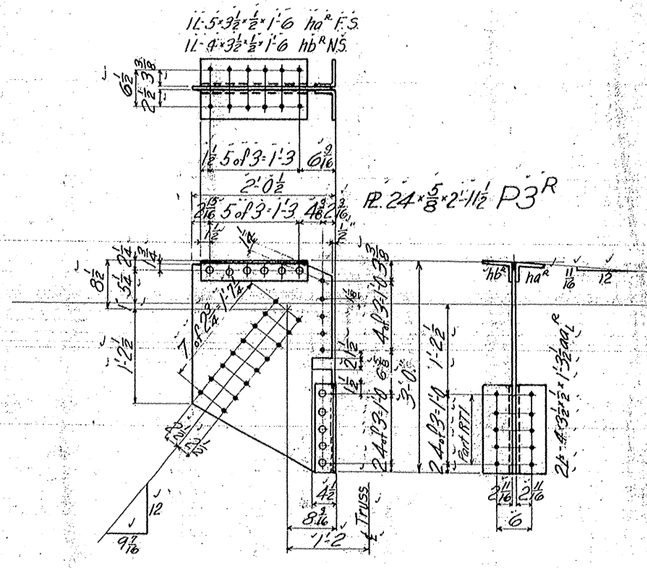
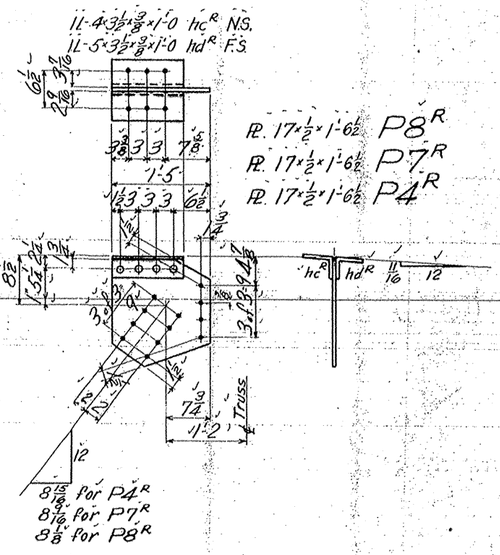
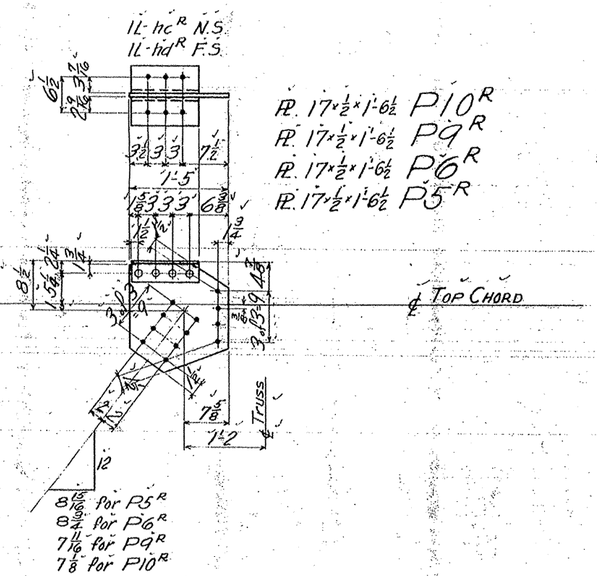
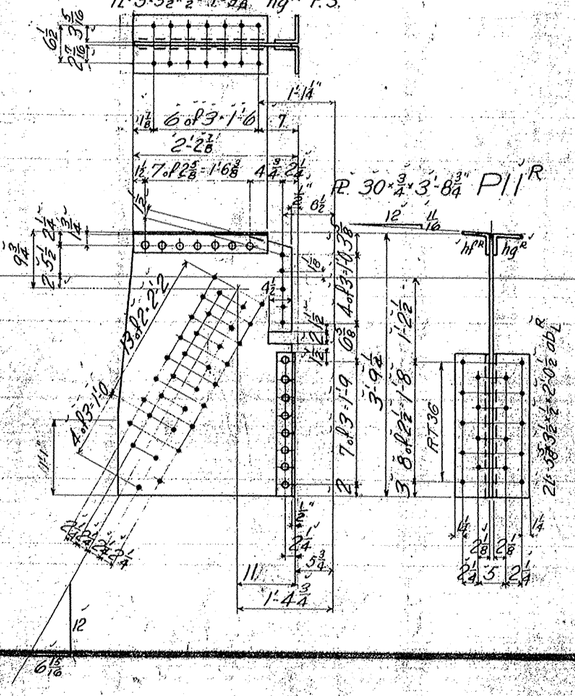
DRAWINGS MADE AT Elmira
WORK FABRICATED AT Elmira
IN CHARGE OF R.C. Beebe
DRAW. MADE BY E.C.M. DATE 7-20
DRAW. CHECKED BY F.O.H. DATE 7-20
ORDER No. F3131
SHEET NO. 28

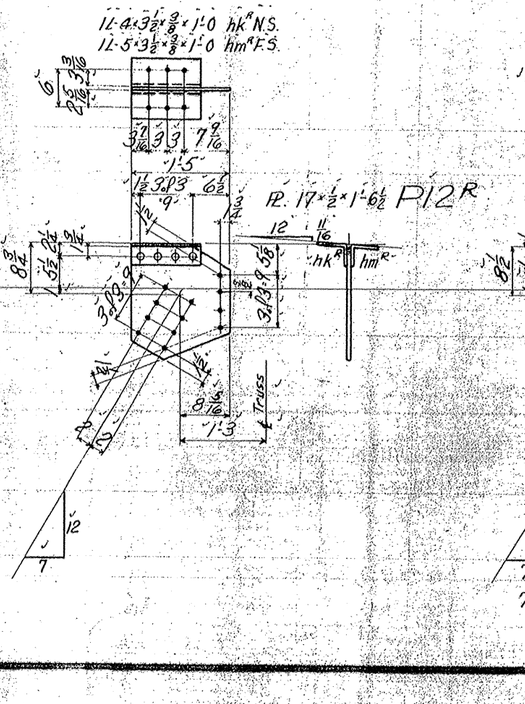
SHOP BILL PAGE 528

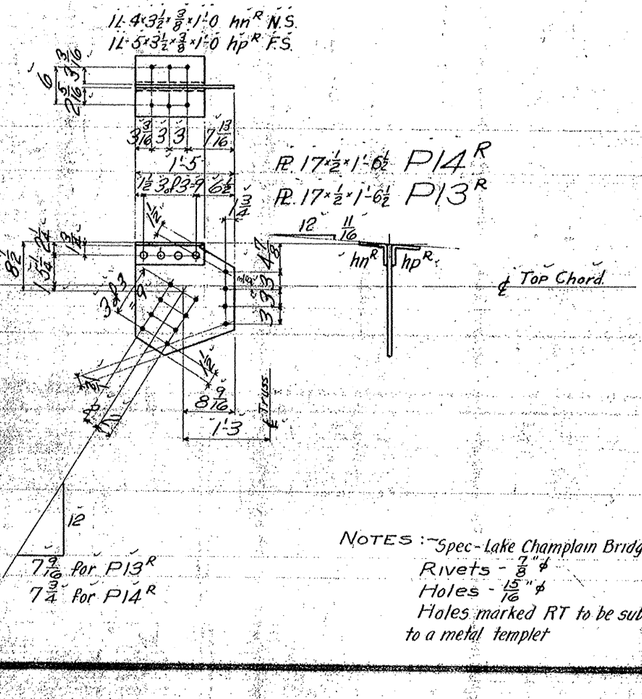












REQUIRED		
1	PLATE	P3^R
1	"	P3^L
3	"	P4^R
3	"	P4^L
1	"	P5^R
1	"	P5^L
1	"	P6^R
1	"	P6^L
1	"	P7^R
1	"	P7^L
1	"	P8^R
1	"	P8^L
1	"	P9^R
1	"	P9^L
1	"	P10^R
1	"	P10^L
1	"	P11^R
1	"	P11^L
1	"	P12^R
1	"	P12^L
1	"	P13^R
1	"	P13^L
1	"	P14^R
1	"	P14^L

NOTES :- Spec-Lake Champlain Bridge Commission
Rivets - ⅞" ϕ
Holes - 15/16" ϕ
Holes marked RT to be subpunched and reamed to a metal templet

LAKE CHAMPLAIN BRIDGE COMMISSION
NEW YORK --- VERMONT
LAKE CHAMPLAIN BRIDGE

PLATES

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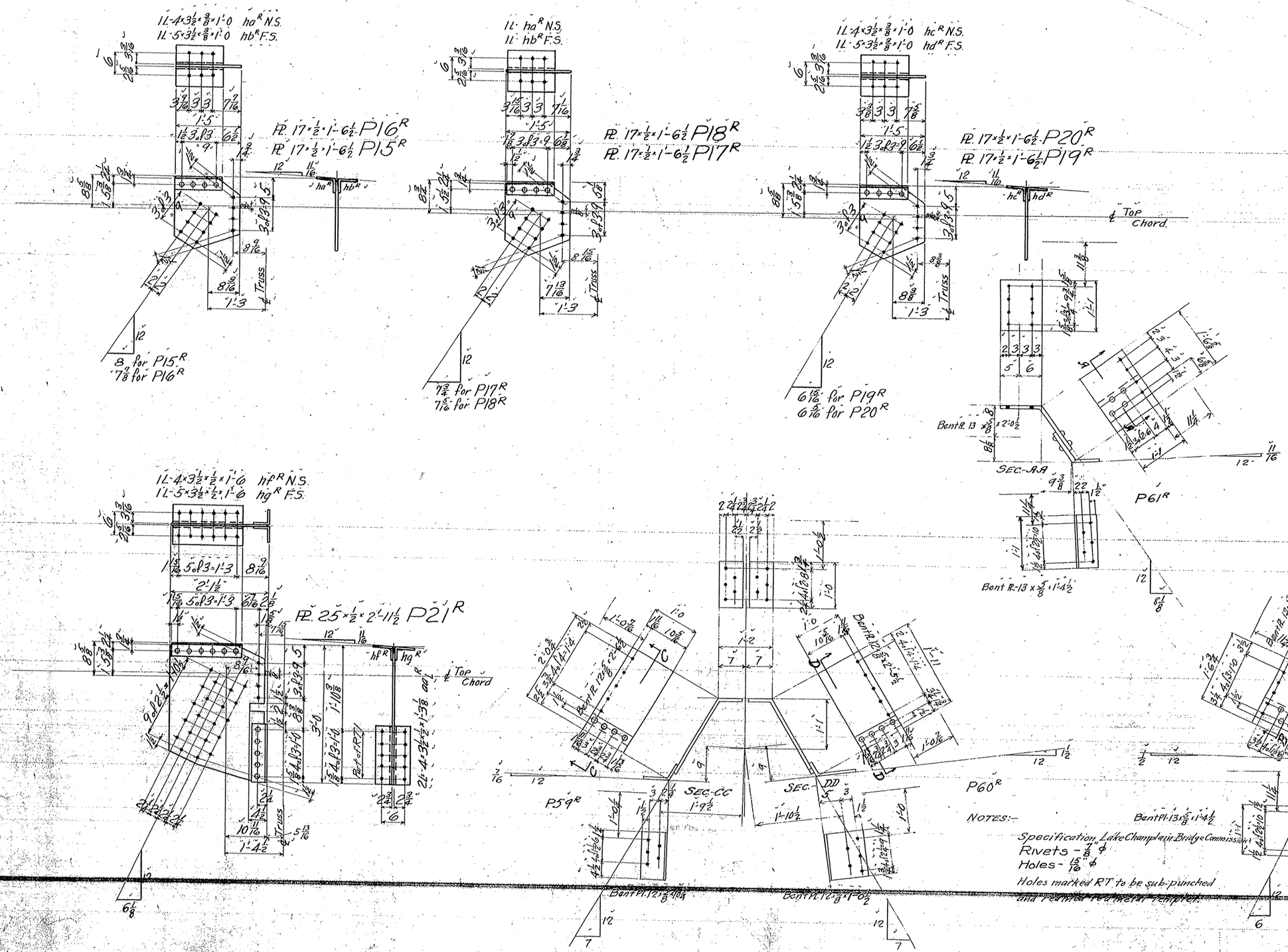
DRAWING MADE AT Elmira PLANT
WORK FABRICATED AT Elmira PLANT
IN CHARGE OF R.C. Beebe
DRAW. MADE BY W.F.R. DATE 7-9-28
DRAW. CHECKED BY J.D.H. DATE 2-28-28
ORDER No. F3131
SHEET NO. 30



REQUIRED		
1	PLATE	P59^R
1	"	P59^L
1	"	P60^R
1	"	P60^L
1	"	P61^R
1	"	P61^L
1	"	P62^R
1	"	P62^L
1	"	P15^R
1	"	P15^L
1	"	P16^R
1	"	P16^L
1	"	P17^R
1	"	P17^L
1	"	P18^R
1	"	P18^L
1	"	P19^R
1	"	P19^L
1	"	P20^R
1	"	P20^L
1	"	P21^R
1	"	P21^L

NOTES:-

Specification, Lake Champlain Bridge Commission

Rivets - ⅞" ϕ

Holes - 15/16" ϕ

Holes marked RT to be sub-punched and reamed to a metal templet.

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PLATES

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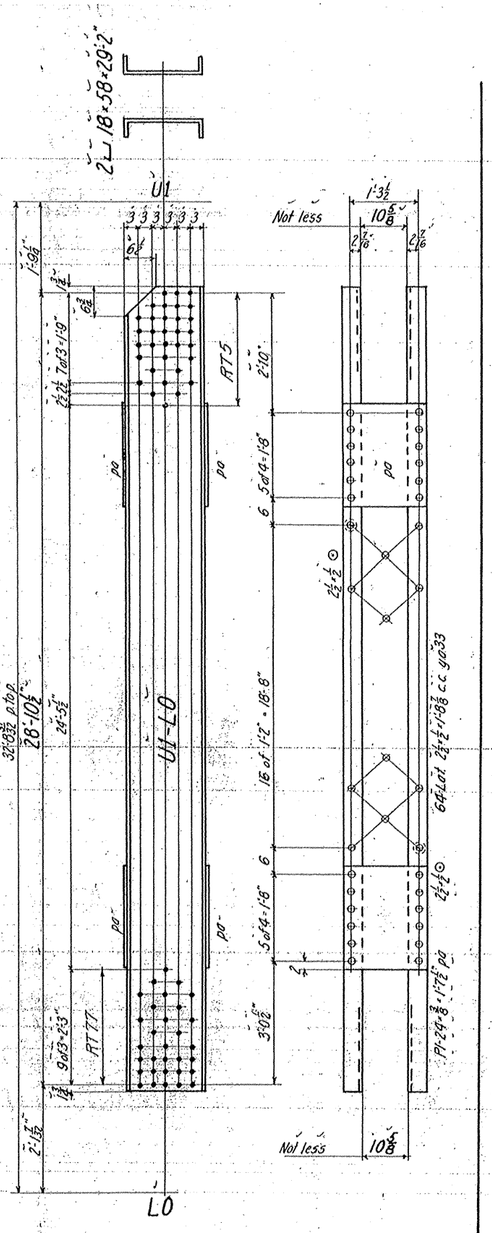
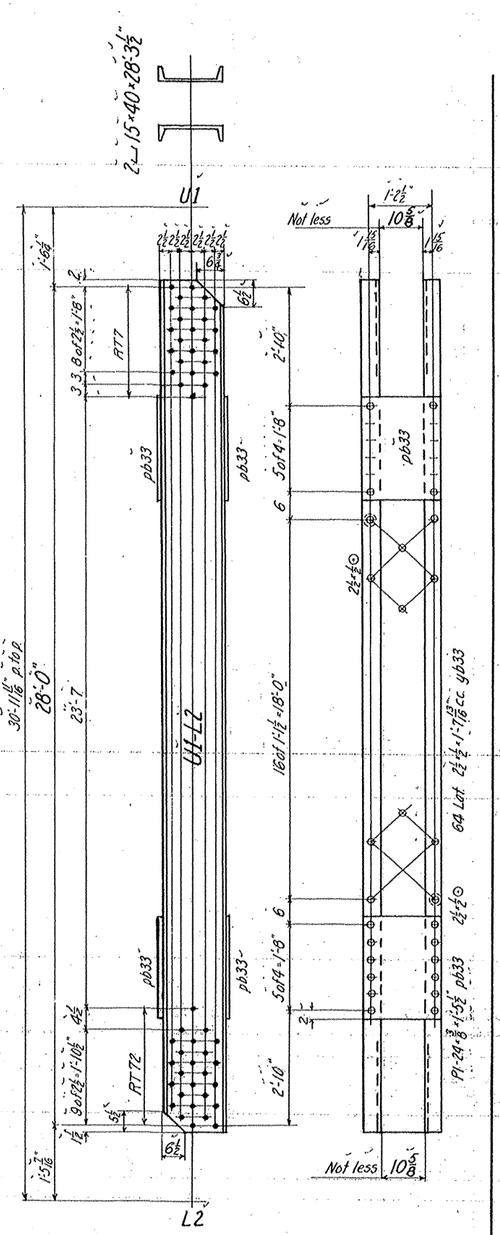
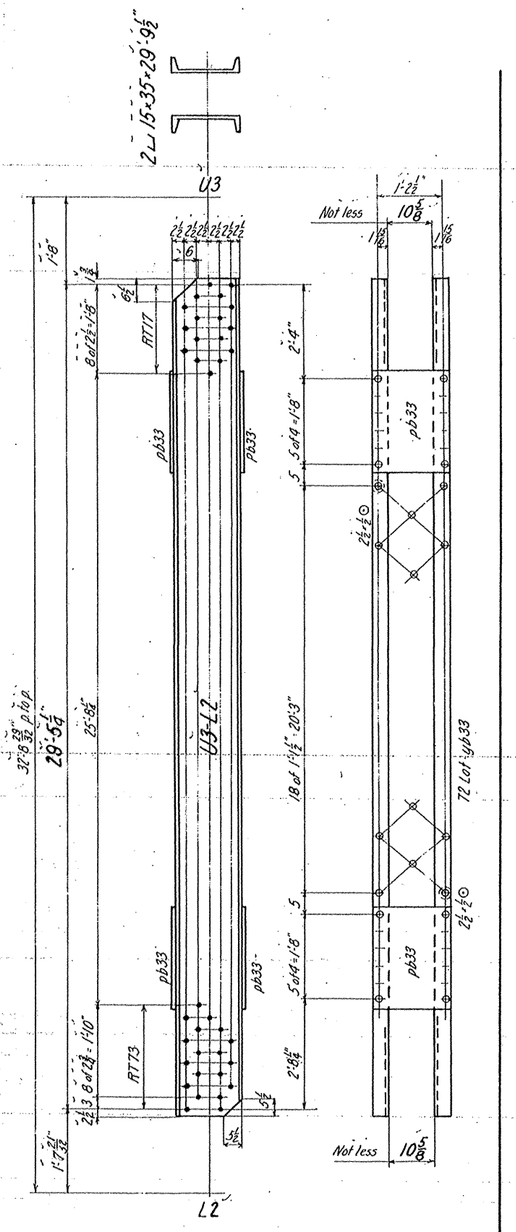
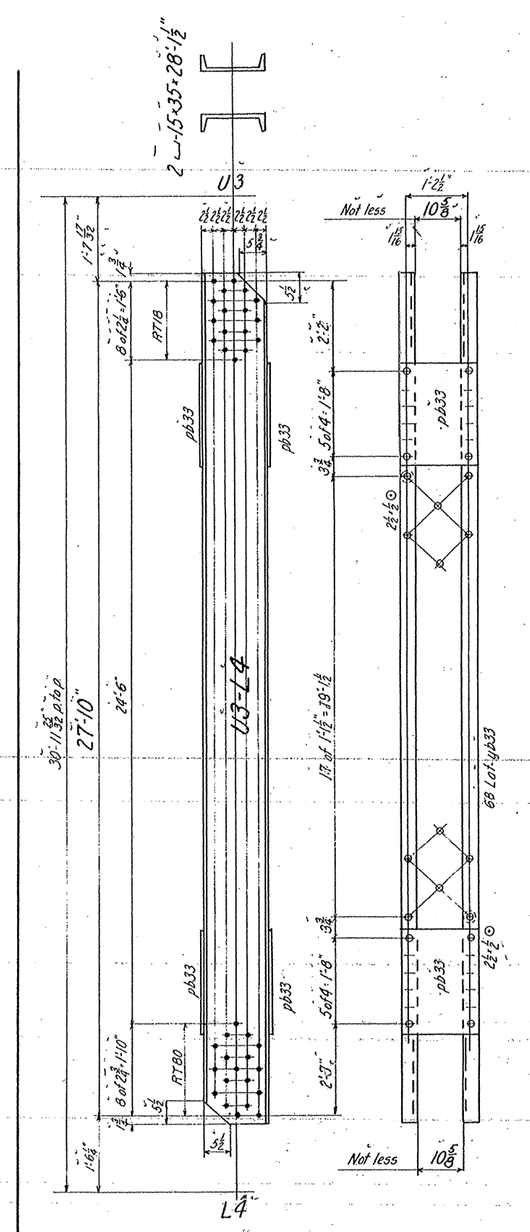
DRAWINGS MADE AT Elmira PLANT
WORK FABRICATED AT Elmira PLANT
IN CHARGE OF R.C. Beebe
DRAW. MADE BY W.F.P. DATE 7-10-28
DRAW. CHECKED BY F.O.H. DATE 7-12-28

ORDER No. F3131 SHEET No. 32









REQUIRED		
2	DIAGONALS	UI-L0
2	"	UI-L2
2	"	U3-L2
2	"	U3-L4

Notes.
Specifications - Lake Champlain Bridge Commission
Rivets - ⅞"ø
Holes - 15/16
Field connections marked RT to be subpunched and reamed to a metal templet

LAKE CHAMPLAIN BRIDGE COMMIS
NEW YORK - - - VERMONT
LAKE CHAMPLAIN BRIDG
Diagonals

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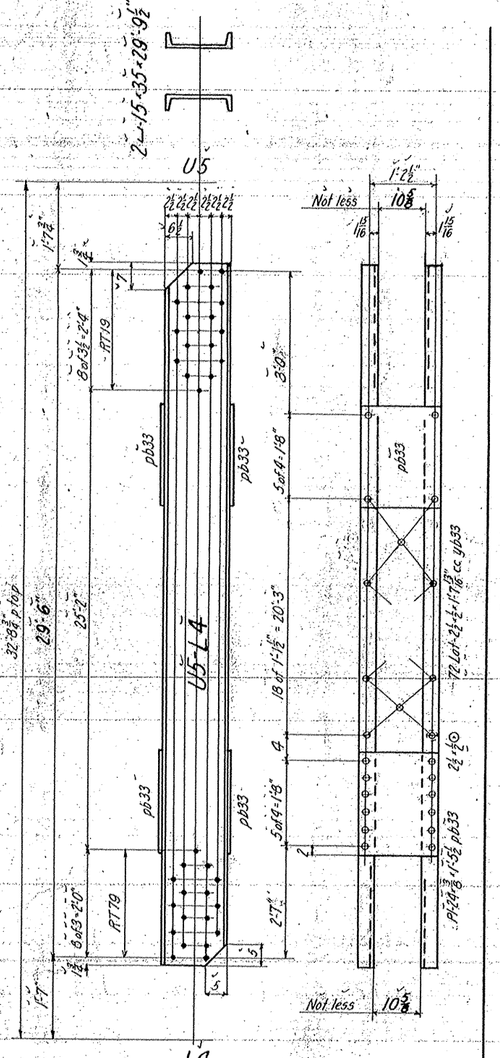
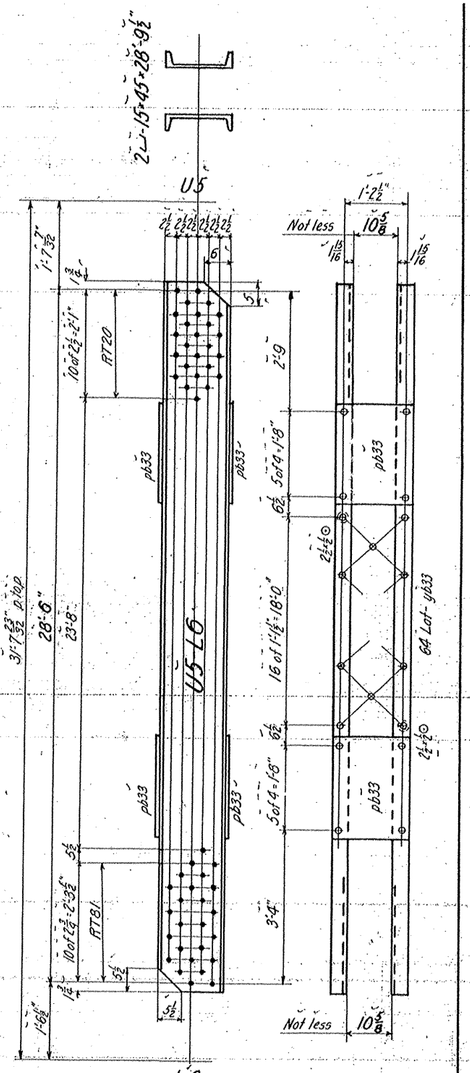
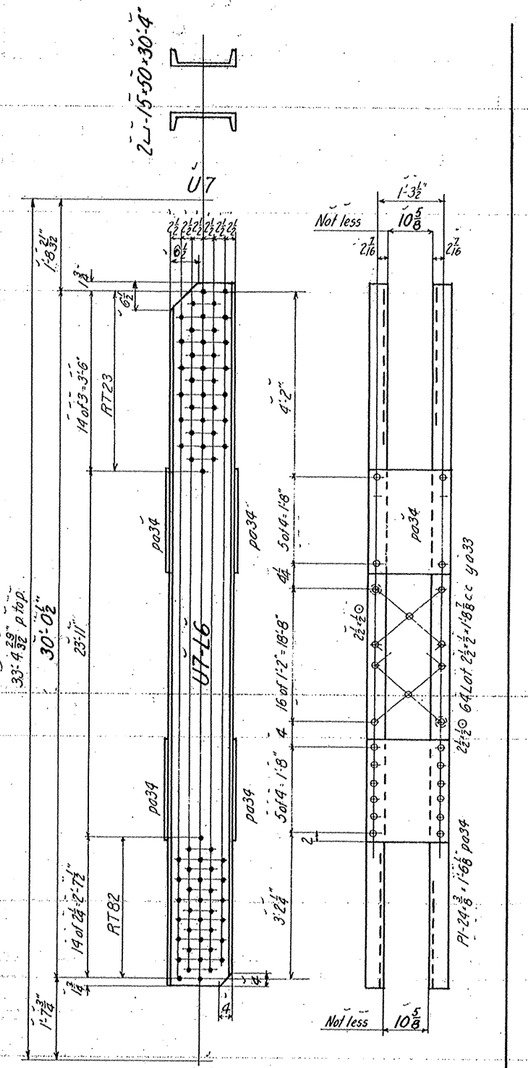
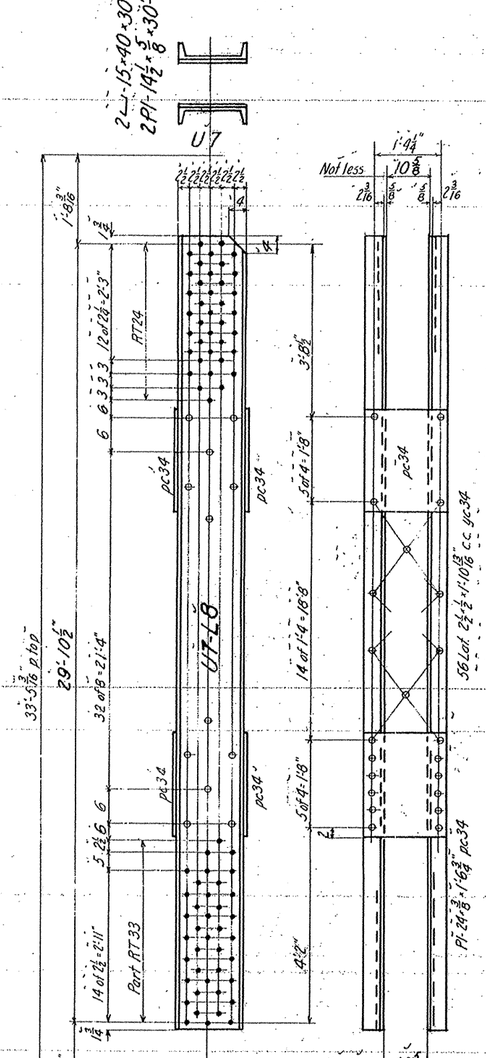
DRAWING MADE AT ELMIRA
WORK FABRICATED AT ELMIRA
IN CHARGE OF R.C.B.
DRAW. MADE BY K.B. DATE
DRAW. CHECKED BY DATE
ORDER No. F3131 SHEET 5

SHOP BILL PAGE 533









REQUIRED		
2	DIAGONALS	U5-L4
2	"	U5-L6
2	"	U7-L6
2	"	U7-L8

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LAKE CHAMPLAIN BRIDGE

Diagonals

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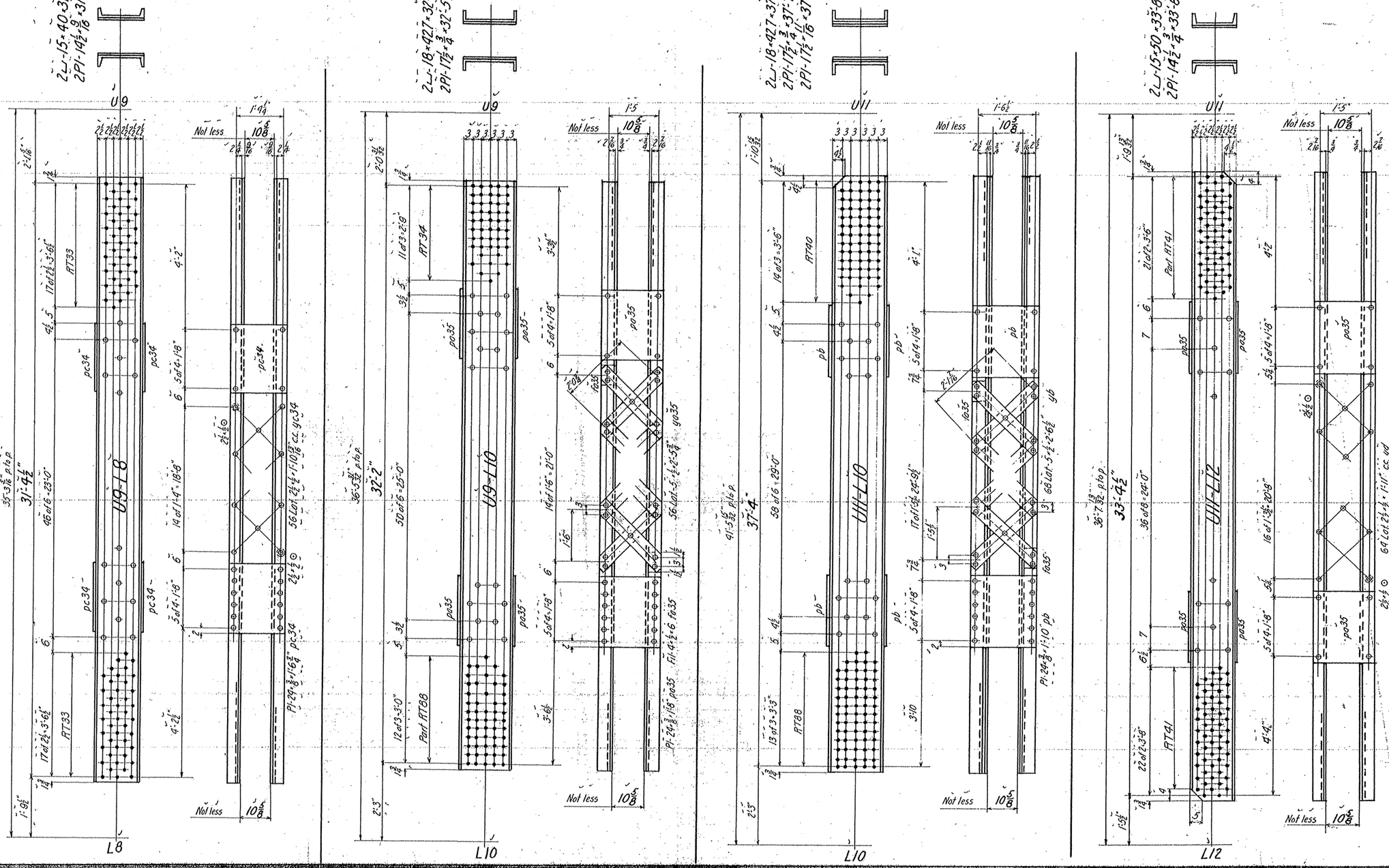
DRAWINGS MADE AT ELMIRA
WORK FABRICATED AT
IN CHARGE OF R.C.B.
DRAW. MADE BY K.B. DATE 7-9-2
DRAW. CHECKED BY DATE
ORDER No. F3131 SHEET No. 36



REQUIRED		
2	DIAGONALS	U9
2	"	U9
2	"	U11
2	"	U11

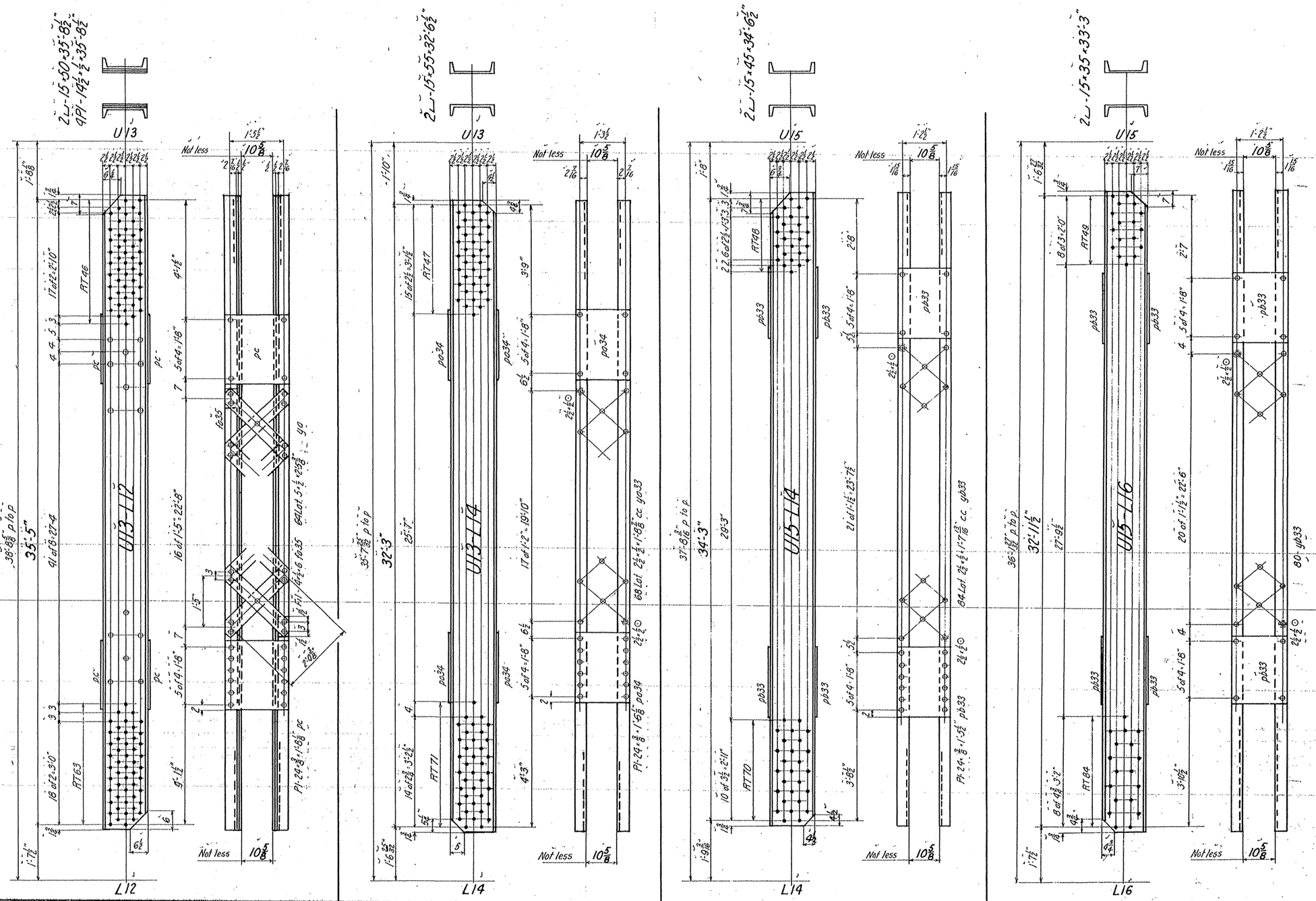
LAKE CHAMPLAIN BRIDGE COMMIS
NEW YORK --- VERMONT
LAKE CHAMPLAIN BRIDG
Diagonals
SHOWING

Copyright AMERICAN BRIDGE COMPANY

DRAWING NAME ELMIRA
WORK FABRICATED AT ELMIRA
IN CHARGE OF RCB
DRAW. MADE BY KB DATE
DRAW. CHECKED BY FCH DATE
ORDER No. F3131 SHEET 3

Notes
Specifications - Lake Champlain Bridge Commission
Rivets - ⅞"ø
Holes - 15/16"ø
Field connections marked RT to be subpunched and reamed to a metal templet

HOW SHEET PAGE 535



REQUIRED		
2	DIAGONALS	U13-L
2	"	U13-L1
2	"	U15-L1
2	"	U15-L1

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Diagonals

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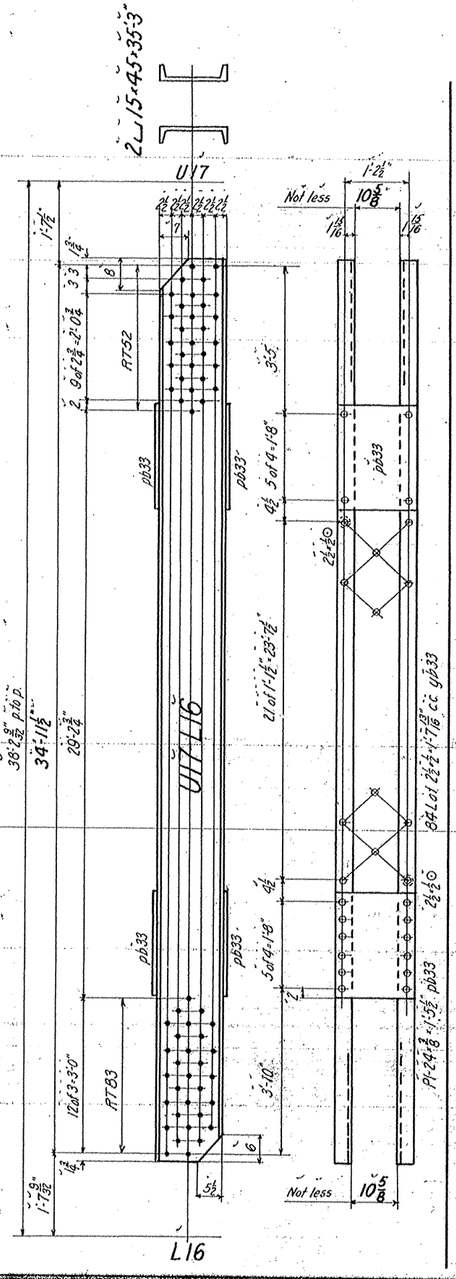
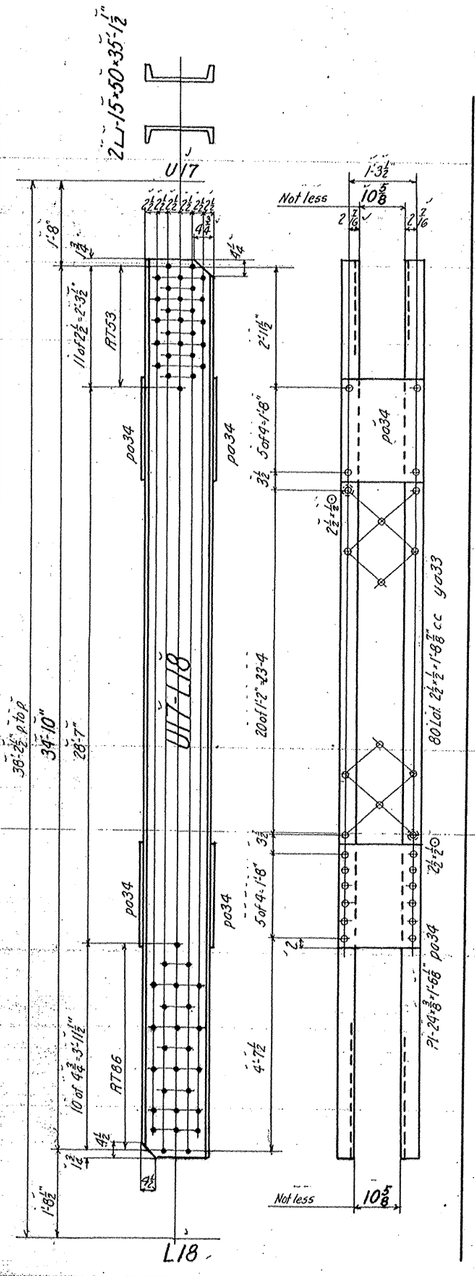
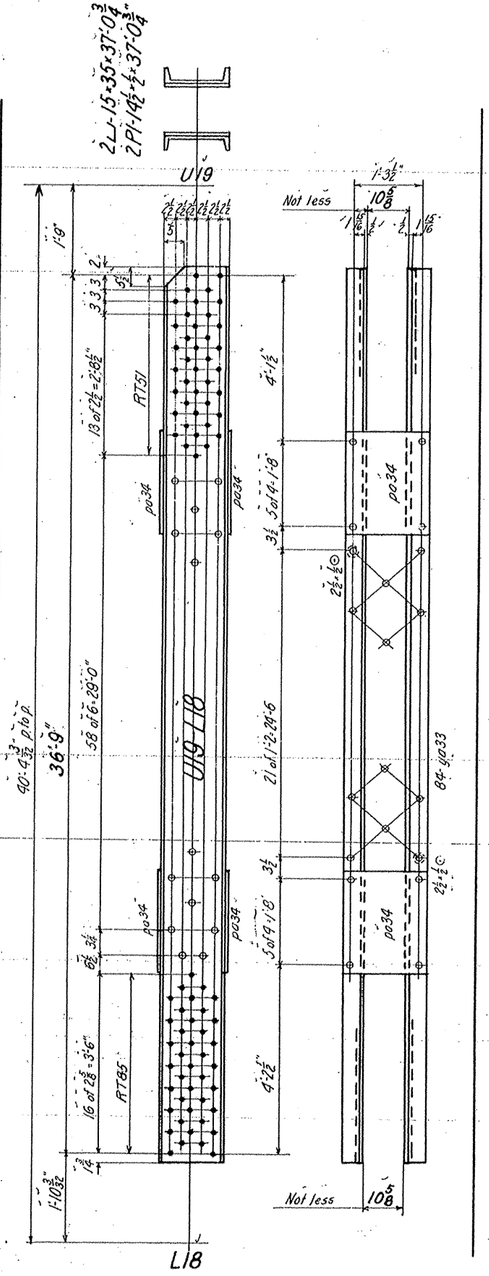
DRAWINGS MADE AT ELMIRA
WORK FABRICATED AT ELMIRA
IN CHARGE OF RCB
DRAW. MADE BY KB DATE 7/
DRAW. CHECKED BY J.O.H. DATE 9
ORDER No. F3131 SHEET No. 36

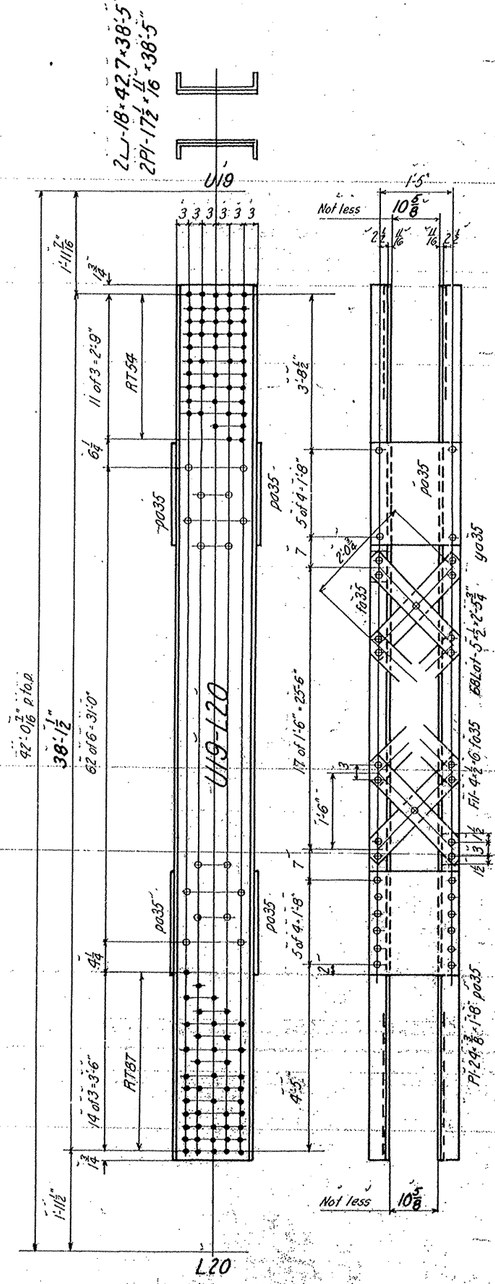
Notes-
Specifications-Lake Champlain Bridge Commission
Rivets-7/8 ϕ
Holes-15/16 ϕ
Field connections marked RT to be subpunched and reamed to a metal templet

536









REQUIRED		
2	DIAGONALS	U17-L16
2	"	U17-L18
2	"	U19-L18
2	"	U19-L20

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LAKE CHAMPLAIN BRIDGE

Diagonals

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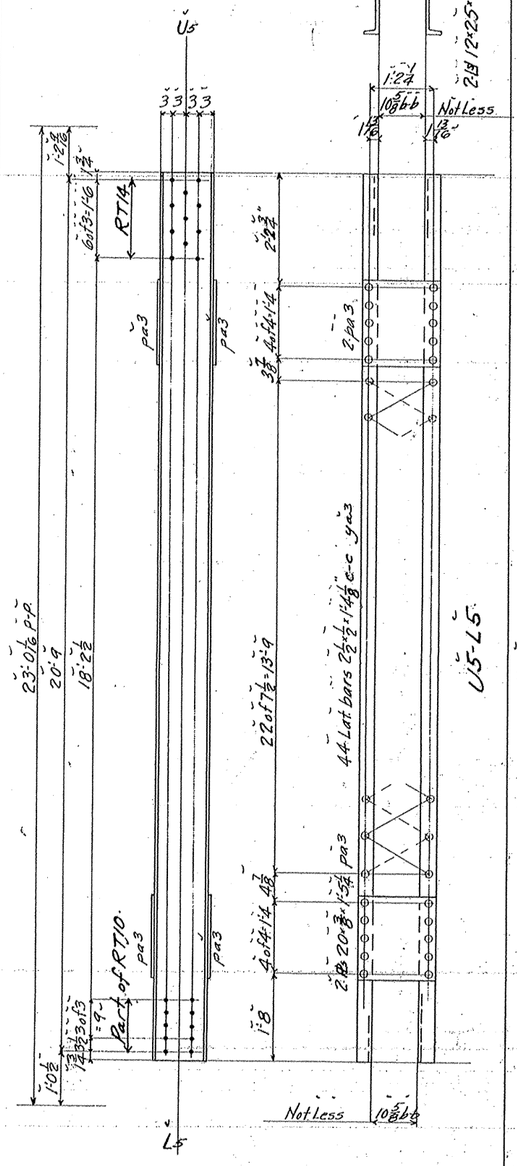
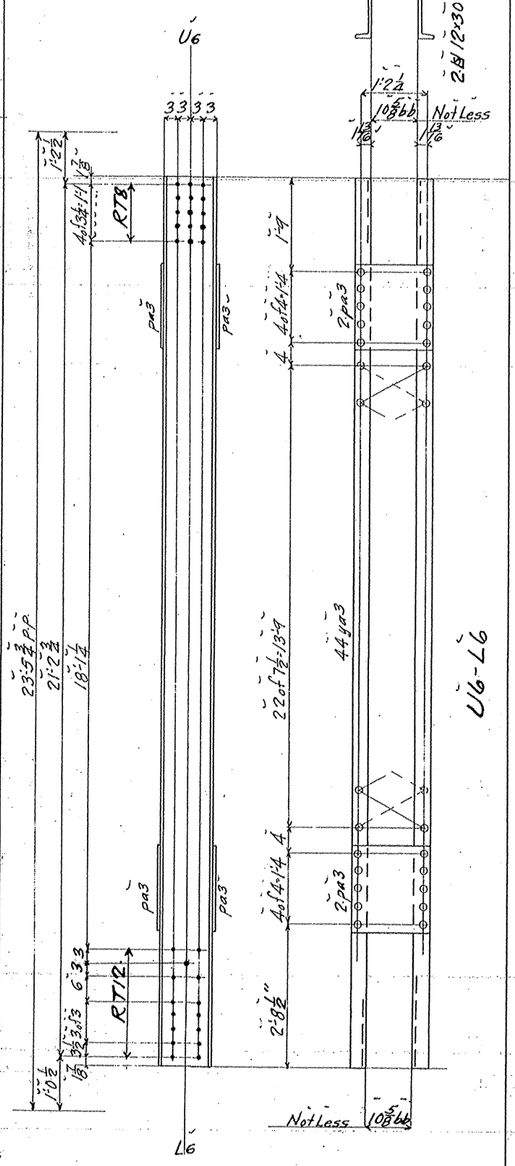
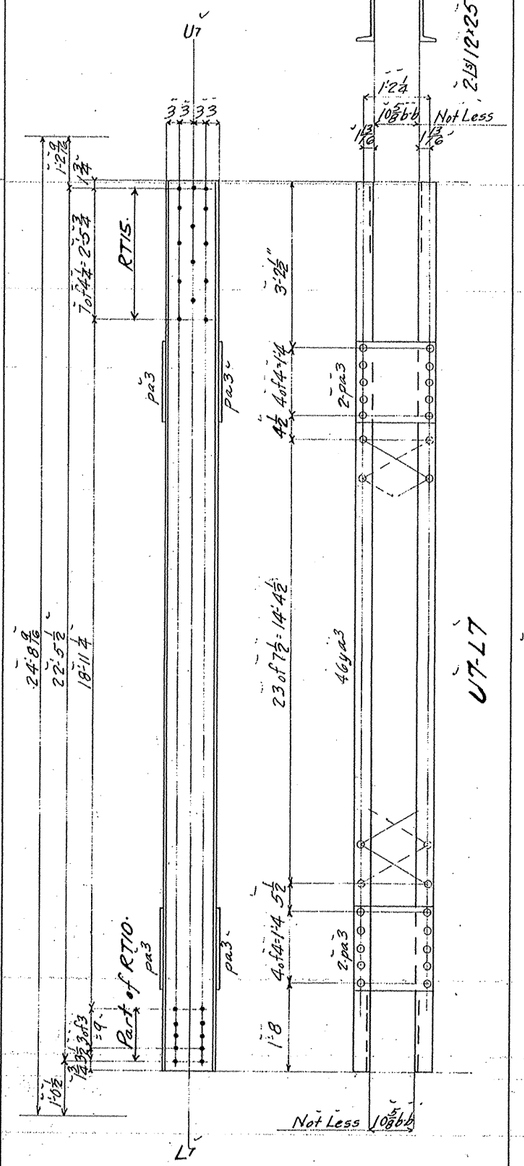
IN CHARGE OF R.C.B
DRAW. MADE BY K.B DATE 7/1
DRAW. CHECKED BY FOR DATE 7/1
ORDER No. F3131

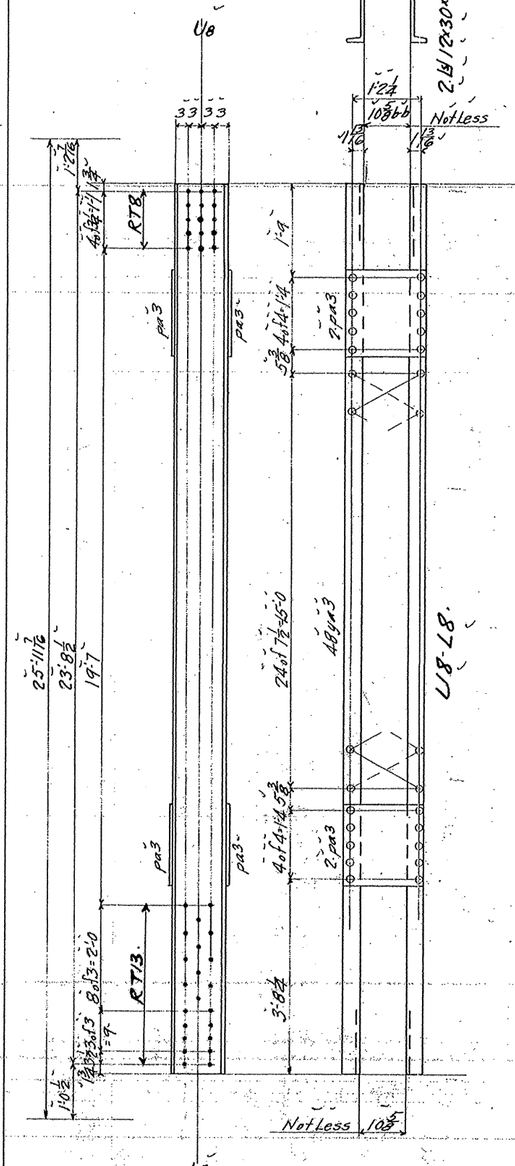
Notes:
Specifications - Lake Champlain Bridge Commission
Rivets - ⅞" ϕ
Holes - 15/16"
Field connections marked RT to be subpunched and reamed to a metal templet

SHOP BUILD No. 337









REQUIRED	
2	VERTICALS U5-L
2	" U6-L
2	" U7-L
2	" U8-L

Notes:-
SPECIFICATIONS: LAKE CHAMPLAIN BRIDGE COMMISSION.
HOLES 15/16
RIVETS 7/8
Finish ... sub-punched and reamed to a metal templet.

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LAKE CHAMPLAIN BRIDGE

SPAN 4
VERTICALS

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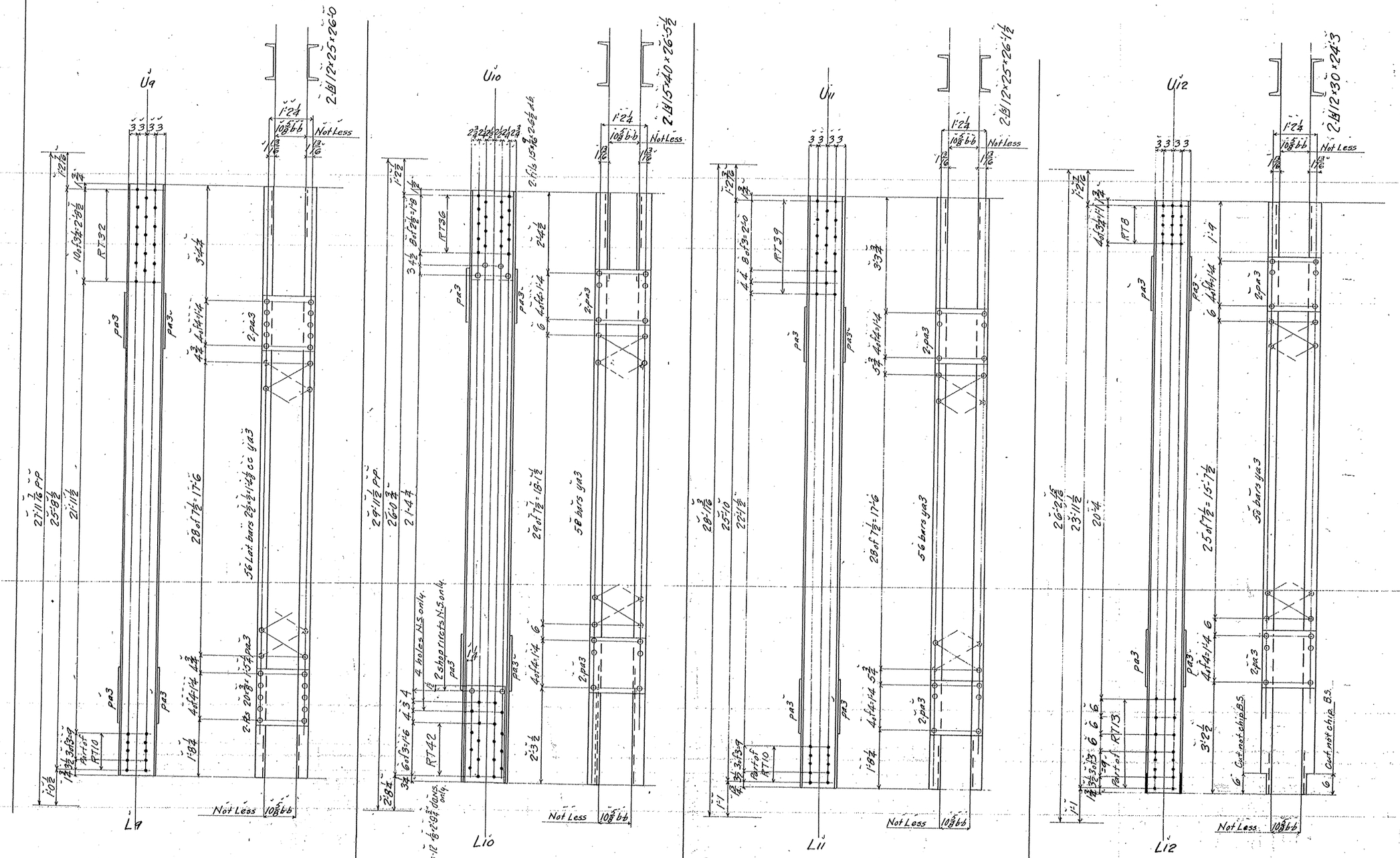
WORK FABRICATED AT ELMIRA
IN CHARGE OF R.O.BEEBE
DRAW. MADE BY S.W.P. DATE 7-
DRAW. CHECKED BY J.H. DATE 7/
ORDER No. F3131
SHEET NO. 38



REQUIRED		
2	VERTICALS	U9-L9
2	"	U10-L10
2	"	U11-L11
2	"	U12-L12

NOTES:
SPECIFICATIONS: LAKE CHAMPLAIN BRIDGE COMMISSION
HOLES: 15/16
RIVETS: 7/8
FIELD CONNECTIONS marked RT are to be
Sub-punched and reamed to a metal templet.

LAKE CHAMPLAIN BRIDGE COMMISSION
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LAKE CHAMPLAIN BRIDGE

Spans 4 and 5
VERTICALS

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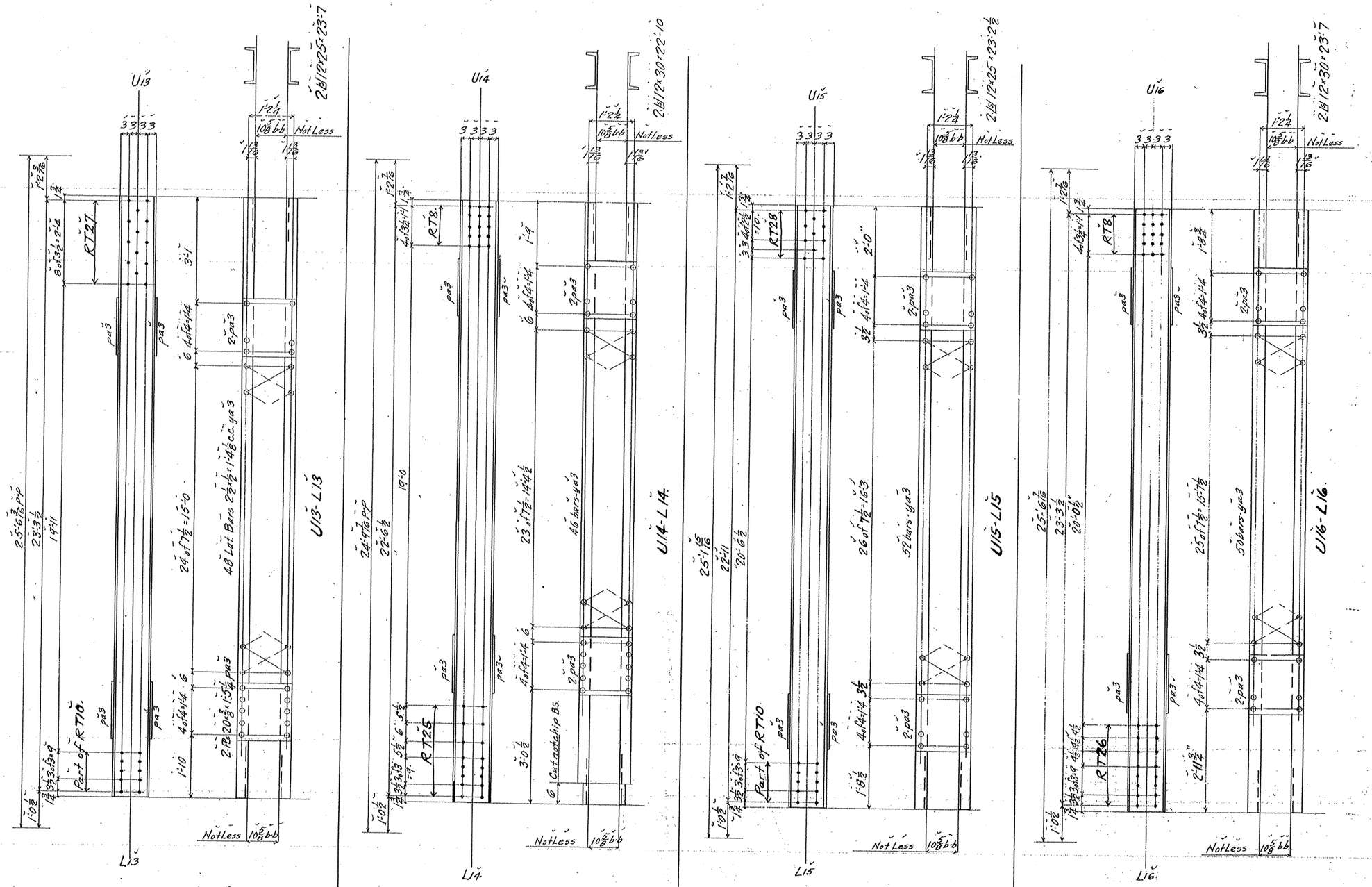
WORK FABRICATED AT ELMIRA
IN CHARGE OF R.C. BEEBE
DRAW. MADE BY S.W.P. DATE 7-10-2
DRAW. CHECKED BY J.O.H. DATE 8-18
ORDER No. F3131
SHEET No. 39

SHOP BILL PAGE 539



REQUIRED		
2	VERTICALS	U13-L
2	"	U14-L
2	"	U15-L
2	"	U16-L

Notes:

SPECIFICATIONS: LAKE CHAMPLAIN BRIDGE COMMISSION.
Holes: 15/16
Rivets: 5/8
Field connections marked RT are to be sub-punched and reamed to a metal templet.

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LAKE CHAMPLAIN BRIDGE

Span 5
VERTICALS

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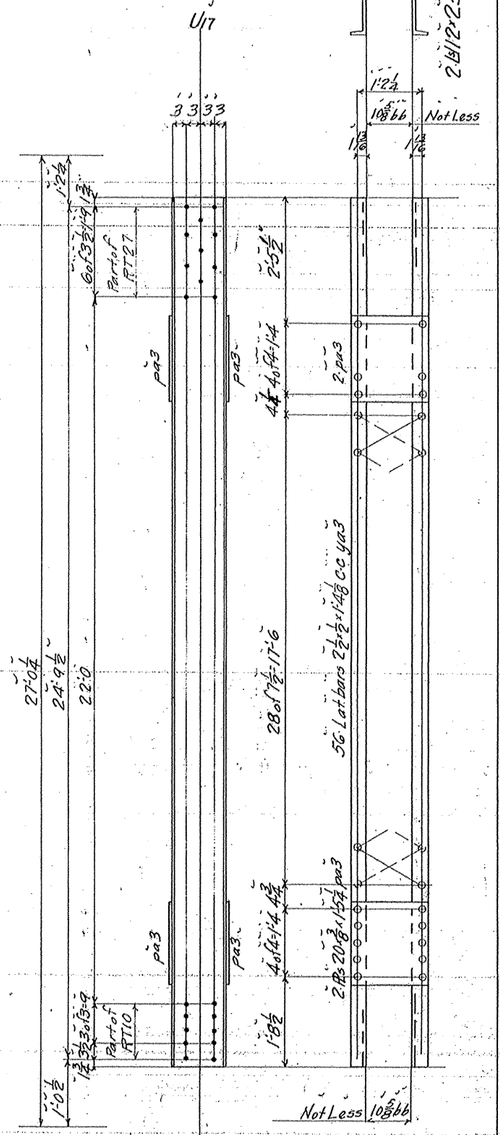
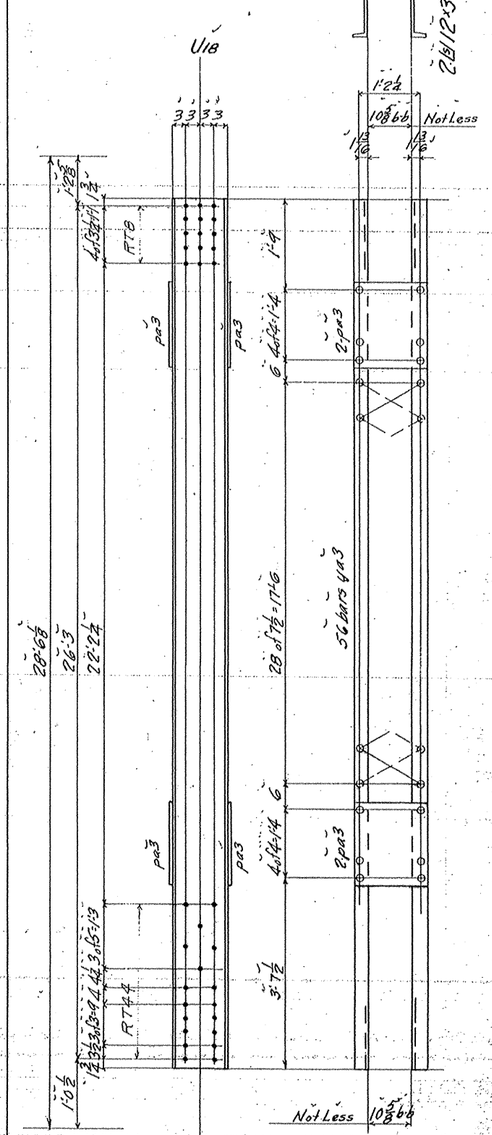
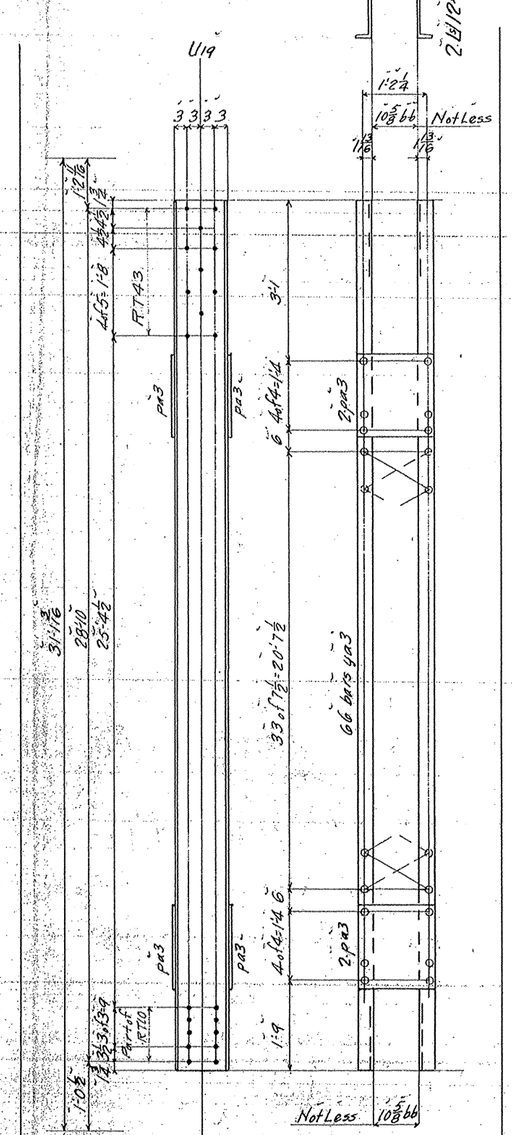
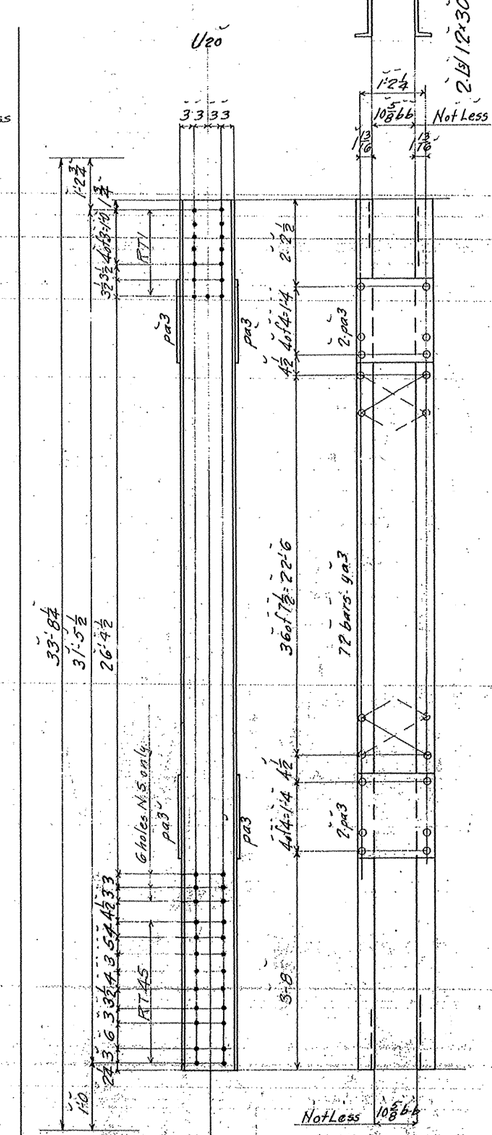
DRAWINGS MADE AT ELMIRA PL
WORK FABRICATED AT ELMIRA PL
IN CHARGE OF R.C. BEEBE
DRAW. MADE BY S.W.P. DATE 7-11-2
DRAW. CHECKED BY J.O.H. DATE 7-10
ORDER No. F3131
SHEET NO. 40









REQUIRED		
2	VERTICALS	U17-L17
2	"	U18-L18
2	"	U19-L19
2	"	U20-L20

Notes
Specifications: Lake Champlain Bridge Commission.
Holes: 13/16
Rivets 7/8
Field connections marked R.T. are to be sub-punched and reamed to a metal template.

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LAKE CHAMPLAIN BRIDGE

Span 5

VERTICALS

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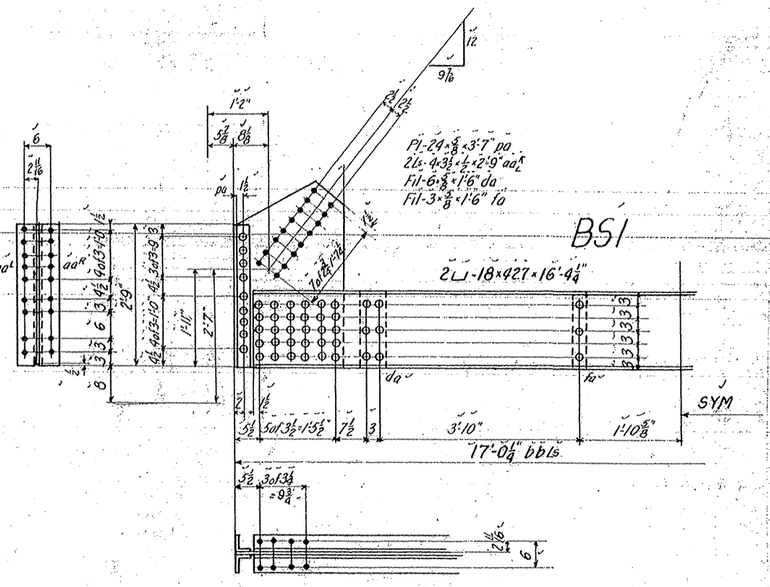
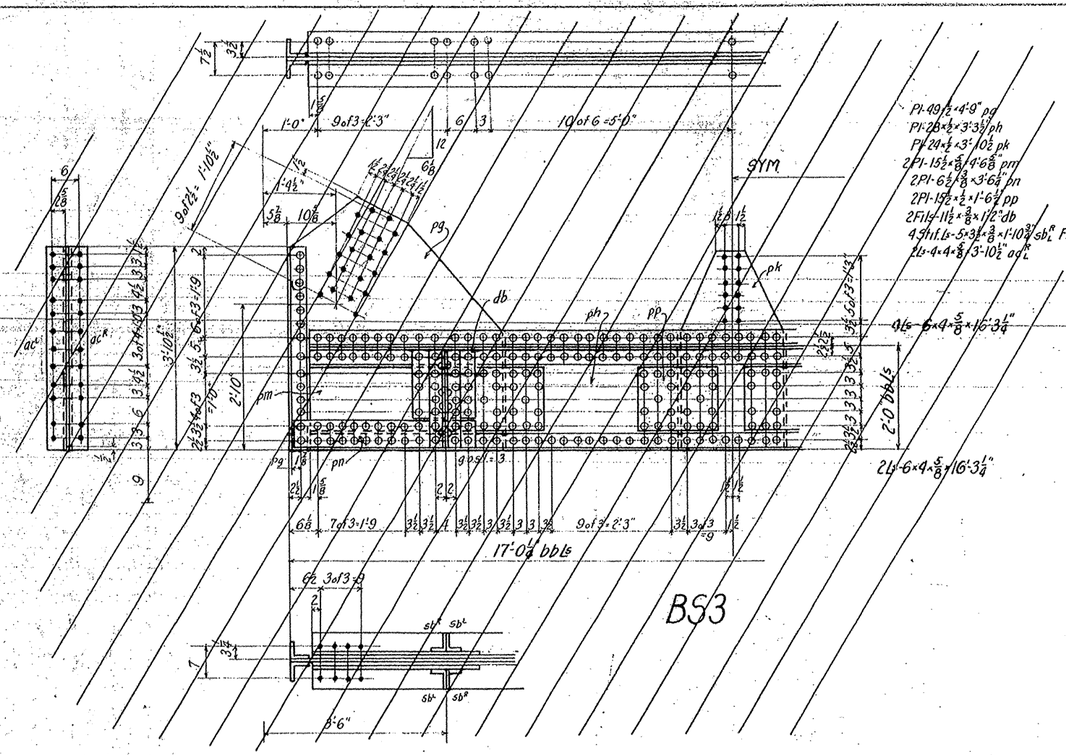
WORK FABRICATED AT
IN CHARGE OF R.C.BEEBE
DRAW. MADE BY S.W.P. DATE 7/2
DRAW. CHECKED BY J.L.H. DATE 8/1

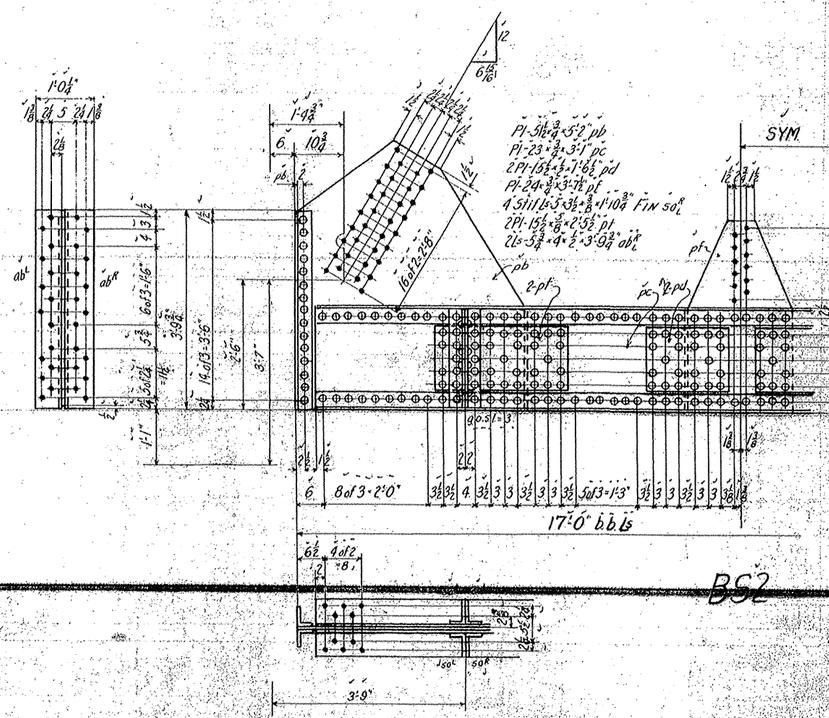
ORDER No. F3131

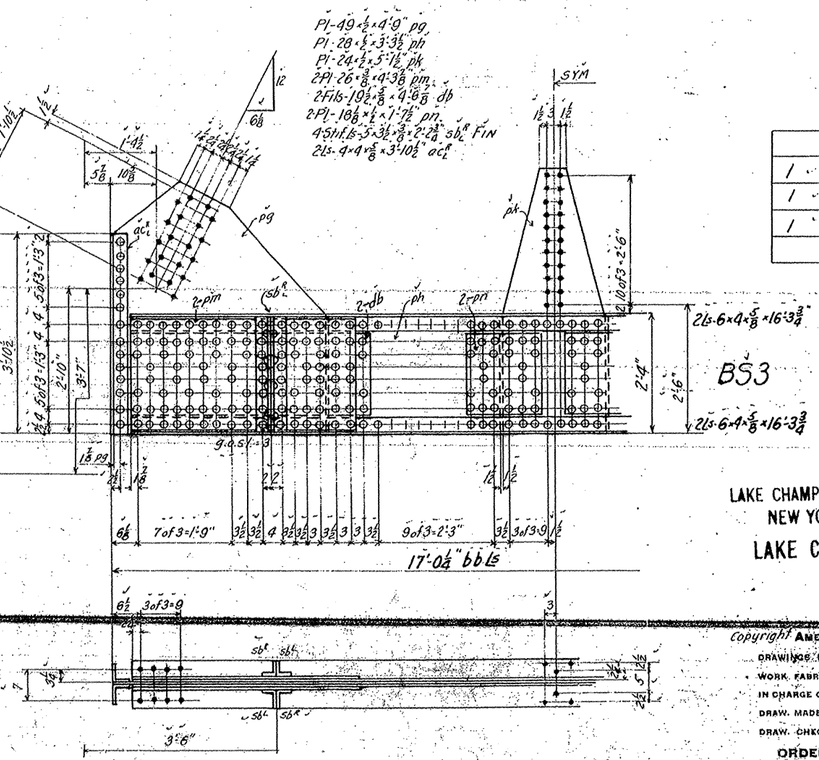
SHEET NO. 41

SHOP MILL MARK SAI









REQUIRED		
1	Bottom Strut	BS1
1	" "	BS2
1	" "	BS3

Notes.
Spec. Lake Champlain Bridge Commission
Rivets - ⅞"
Holes - 15/16"

LAKE CHAMPLAIN BRIDGE COMMISSION
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LAKE CHAMPLAIN BRIDGE

Bottom Struts

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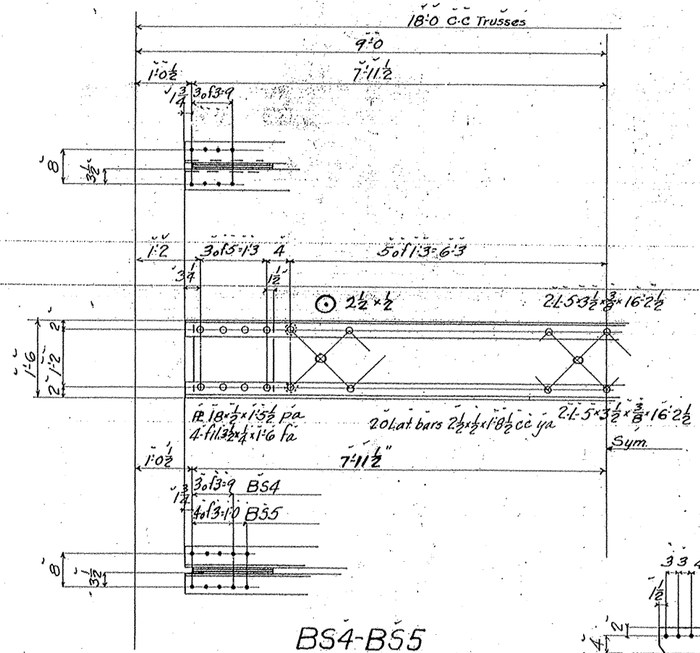
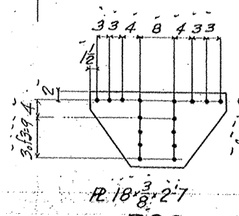
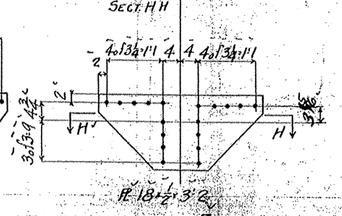
WORK FABRICATED AT Elmira PLANT.
IN CHARGE OF R.C.B
DRAW. MADE BY K.B DATE 9-4-28.
DRAW. CHECKED BY K.O.H. DATE 9-20-28.
ORDER No. F3131
SHEET NO. 42



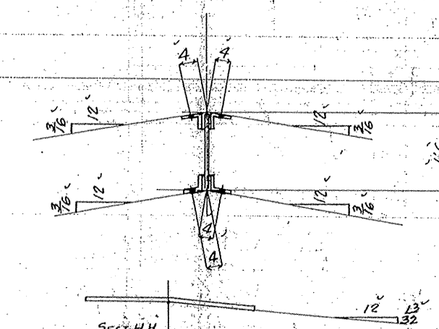
BS4-BS5

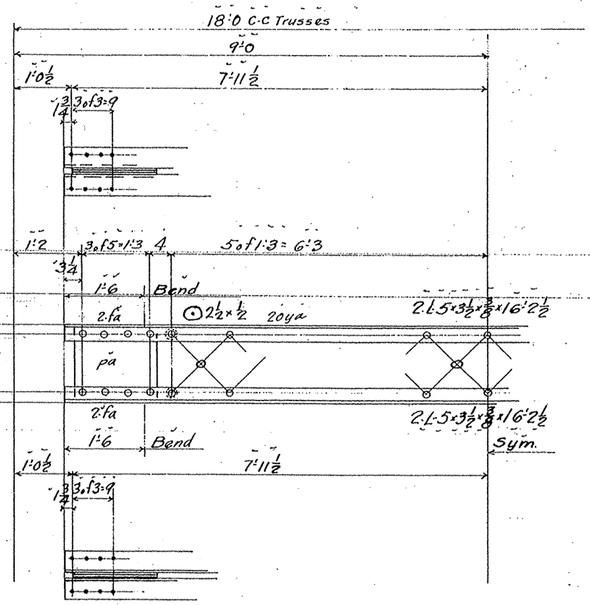


P26



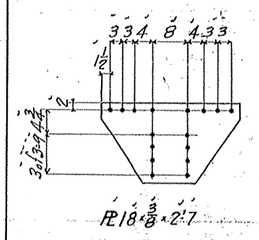
P55R





BS6

Required		
9	Bottom Struts	BS4
2	" "	BS5
7	" "	BS6
6	Plates	P22
2	"	P23
2	"	P24
2	"	P25
2	"	P26
2	"	P27
4	"	P28
2	"	P29
1	"	P30R
2	"	P31
1	"	P32R
1	"	P33R
1	"	P34R
1	"	P35R
1	"	P55R
1	"	P30L
1	"	P32L
1	"	P33L
1	"	P34L
1	"	P35L
1	"	P55L



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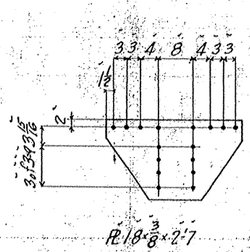

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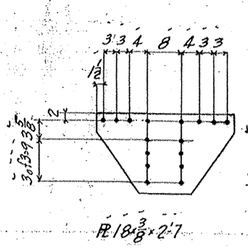

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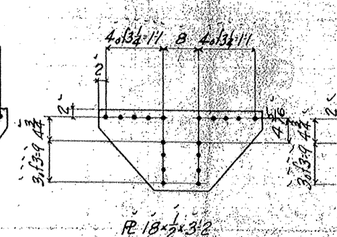

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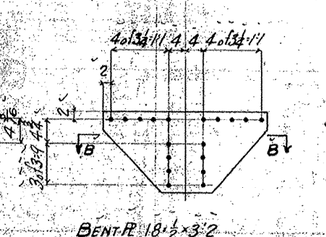

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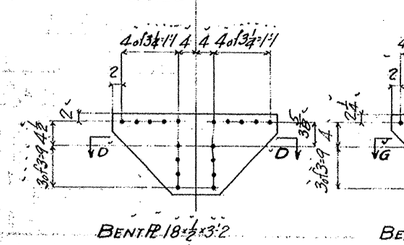
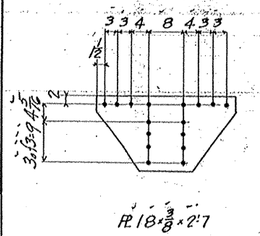
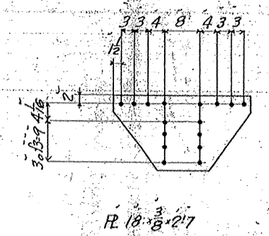


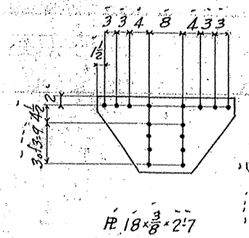
P33R P35R



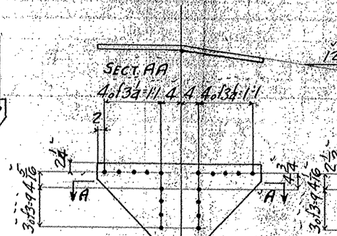
P23



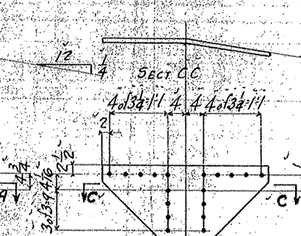
P25



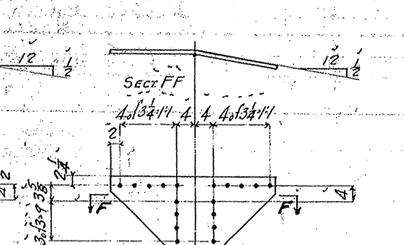
P28



P30R



P32R



P34

LAKE CHAMPLAIN BRIDGE COMMISSION
NEW YORK --- VERMONT

LAKE CHAMPLAIN BRIDGE

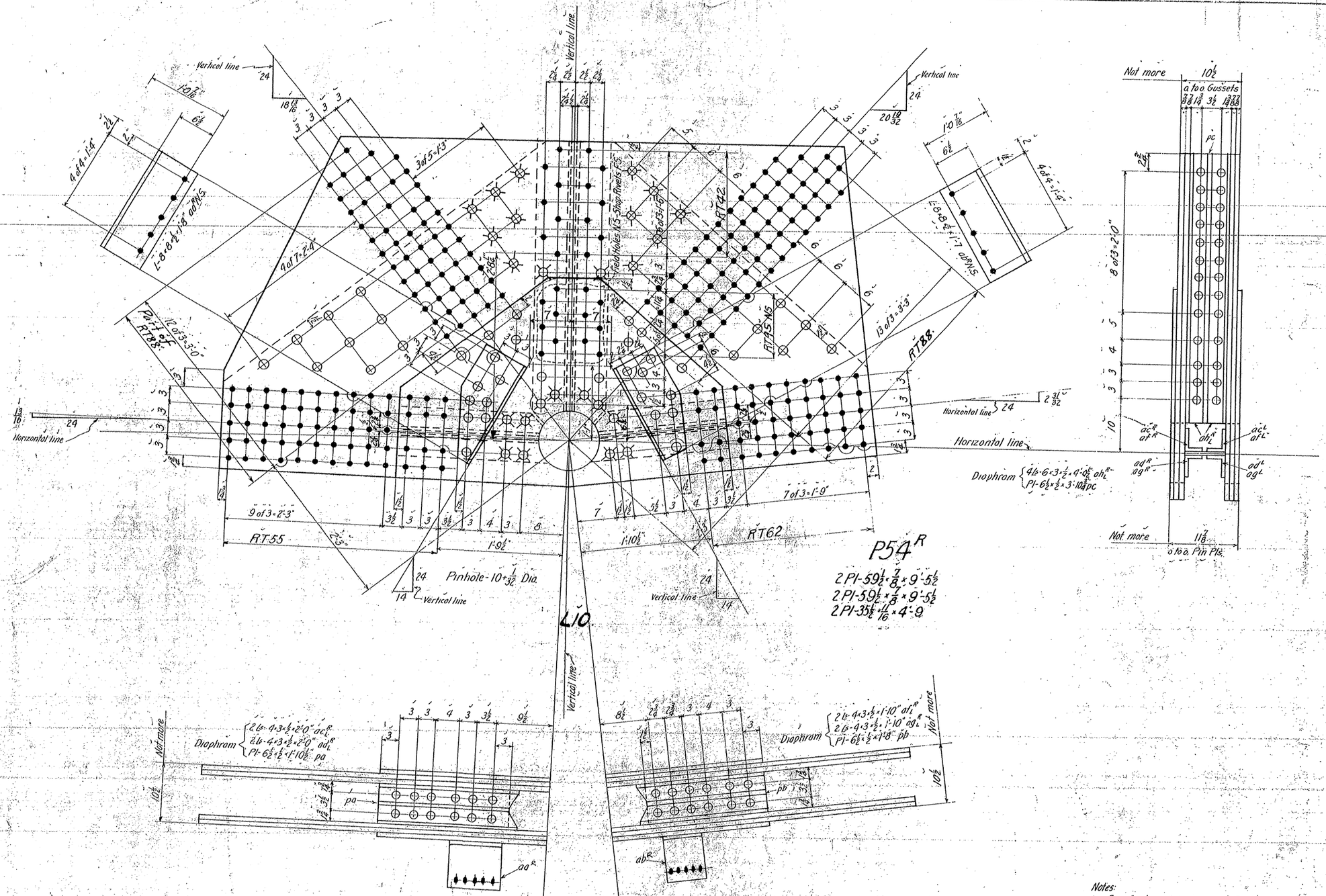
Spans 4 and 5

Bottom Struts and Plates

Copyright American Bridge Company, 1928

Specifications: Lake Champlain Bridge Commission
Holes 15/16
Rivets ⅞

Drawings made at Elmira Plant.
Work fabricated at Elmira Plant.
In charge of R.C. Beebe
Draw. made by S.W.P. Date 7-13-28
Draw. checked by J.O.H. Date 9-12-28
Order No. Sheet No.



P54R

2 Pl-59½×⅞×9'-5½
2 Pl-59½×⅞×9'-5½
2 Pl-35½×11/16×4'-9

REQUIRED		
ONE	GUSSET	P54R
ONE	"	P54L

Notes:
Specifications-Lake Champlain Bridge Commission
Rivets-⅞"
Holes-15/16" unless noted.
Field connections marked RT to be subdrilled and reamed to a metal templet.
Main material over ¾" thick drilled full size or subdrilled and reamed.
Sheared edges of main material over ⅝ and gussets over ⅝ planed ¼

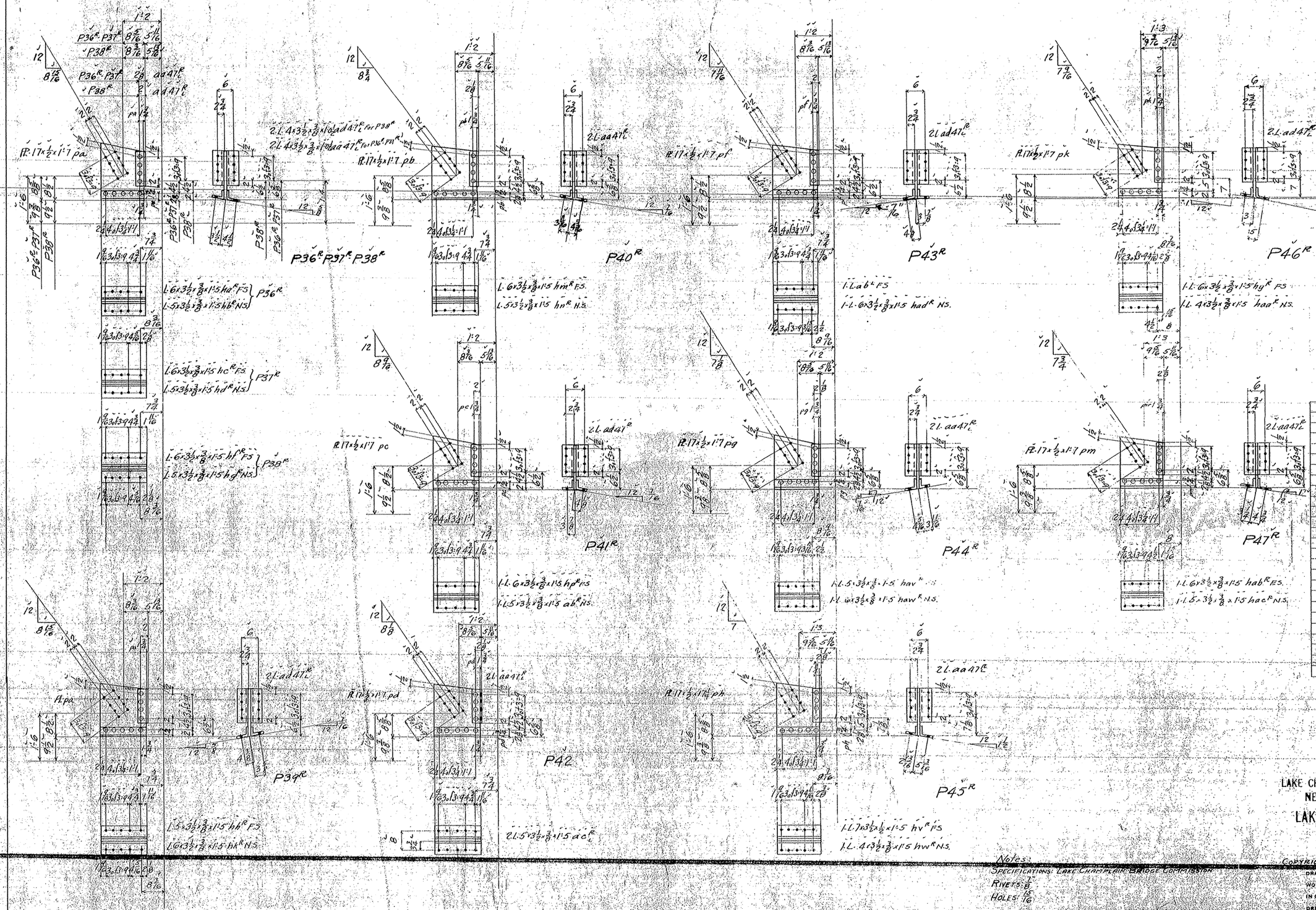
LAKE CHAMPLAIN BRIDGE COMMISSION
NEW YORK - - VERMONT
LAKE CHAMPLAIN BRIDGE

Gusset at L10

Copyright AMERICAN BRIDGE COMPANY 1928

WORK FABRICATED AT ELMIRA PLANT
IN CHARGE OF RCB
DRAW. MADE BY KB DATE 7-18-28
DRAW. CHECKED BY F.O.H. DATE 9-10-28
ORDER No. F3131 SHEET No. 46

SHOP BILL PAGE 546



REQUIRED		
1	PLATE	P36R
1	"	P36L
1	"	P37R
1	"	P37L
1	"	P38R
1	"	P38L
1	"	P39R
1	"	P39L
1	"	P40R
1	"	P40L
1	"	P41R
1	"	P41L
2	"	P42
1	"	P43R
1	"	P43L
1	"	P44R
1	"	P44L
1	"	P45R
1	"	P45L
1	"	P46R
1	"	P46L
1	"	P47R
1	"	P47L

Notes:
SPECIFICATIONS: LAKE CHAMPLAIN BRIDGE COMMISSION
RIVETS: 7/8"
HOLES: 15/16

LAKE CHAMPLAIN BRIDGE COMMISSION
NEW YORK - - - VERMONT

LAKE CHAMPLAIN BRIDGE

Spans 4 and 5
PLATES

COPYRIGHT AMERICAN BRIDGE COMPANY, 1928

DRAWINGS MADE AT ELMIRA PLANT
WORK FABRICATED AT ELMIRA PLANT
IN CHARGE OF R.C. BEEBE
DRAW. MADE BY S.W.P. DATE 7-17-28
DRAW. CHECKED BY F.O.K. DATE 7-20-28

ORDER No. F3131 | SHEET NO. 47

SHOP BILL PAGE S47 a&b

P48R

P51

P49R

P52R

P50R

P53R

P56

H18 16 — 22'-6 3/8"
H19 3/16 — 22'-6 3/8"
H20 1/4 — 27'-0 3/8"
H21 1/4 — 27'-0 3/8"
H22 3/32 — 22'-5 1/4"
H23 3/32 — 27'-0 3/8"

U 8×11.5×L

13/16 holes

H18	3/16	7'-2 3/8"	7'-6 1/4"	7'-2 3/8"	3/16
H19	3/16	7'-2 3/8"	7'-6"	7'-2 3/8"	3/16
H20	3/16	8'-8 3/4"	9'-0"	8'-8 3/4"	3/16
H21	3/16	8'-8 3/4"	9'-0 1/4"	8'-8 3/4"	3/16
H22	3/16	7'-2 3/8"	7'-6 1/4"	6'-9 5/8"	3/16
H23	7/16	8'-4 3/8"	9'-0 3/4"	8'-8 3/4"	3/16

L 3×3×5/16×4'-5 H26R

Bar 3×1/4×2'-4 7/16

Bent L 5×3 1/2×5/16×6'-2 1/2 H27R

L 3×3×5/16×11'-2 H27R

H24

U 8×11.5×23'-10 1/2

13/16 holes

Slot 13/16×1 1/4

23'-10 1/2

1'-2 7/16 | 7'-6 1/4 | 7'-6 1/4 | 7'-3 | 3/16

H25R

U 8×11.5×28'-4 1/2

13/16 holes

Slot 13/16×1 3/16

28'-4 1/2

8'-8 1/2" | 9'-0" | 9'-0" | 1'-11/16

Bolt 5/8"×3 1/2" Long
Bolt 5/8"×2" Long

Bent L 6×3 1/2×3/8×2'-4 1/2 H26R

Bent PL 6"×2'-0 1/2" H25R

REQUIRED		
1	PLATE	P48R
1	"	P48L
1	"	P49R
1	"	P49L
1	"	P50R
1	"	P50L
1	"	P51
2	"	P52R
1	"	P52L
1	"	P53R
1	"	P53L
12	RAILINGS	H18
4	"	H19
4	"	H20
12	"	H21
2	"	H22
2	"	H23
2	"	H24
1	"	H25R
1	"	H26R
1	"	H27R
2	PLATES	P56
1	RAILING	H25L
1	"	H26L
1	"	H27L

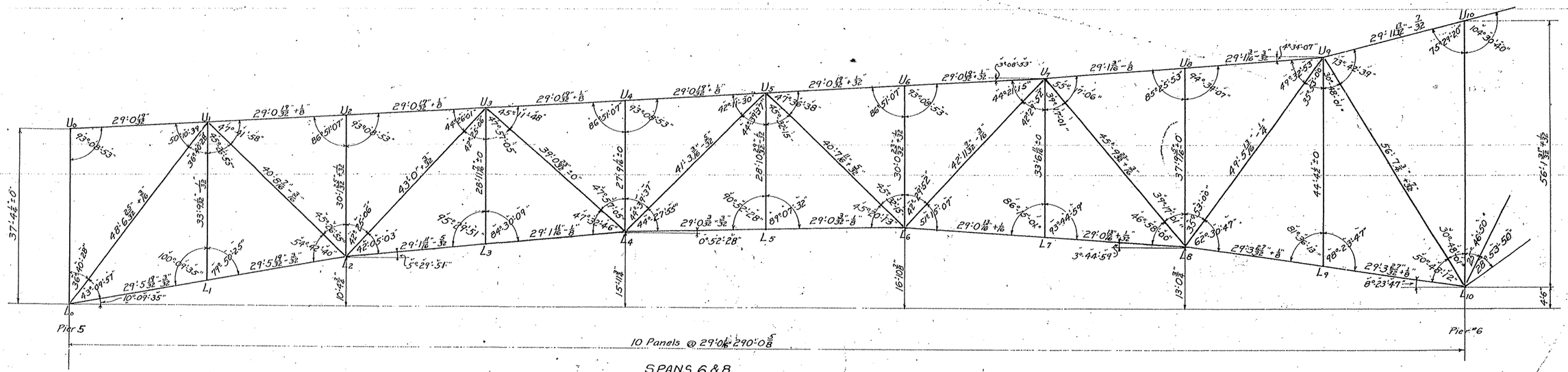
Notes
SPECIFICATIONS: LAKE CHAMPLAIN BRIDGE COMMISSION
Rivets 7/8 Unless Noted
Holes 13/16 Unless Noted

REVISED
End of H25 changed. H24 & H27 changed to conform to H25. 26'-2" made 26'-1 1/2". 11/8 8/1960 RCB

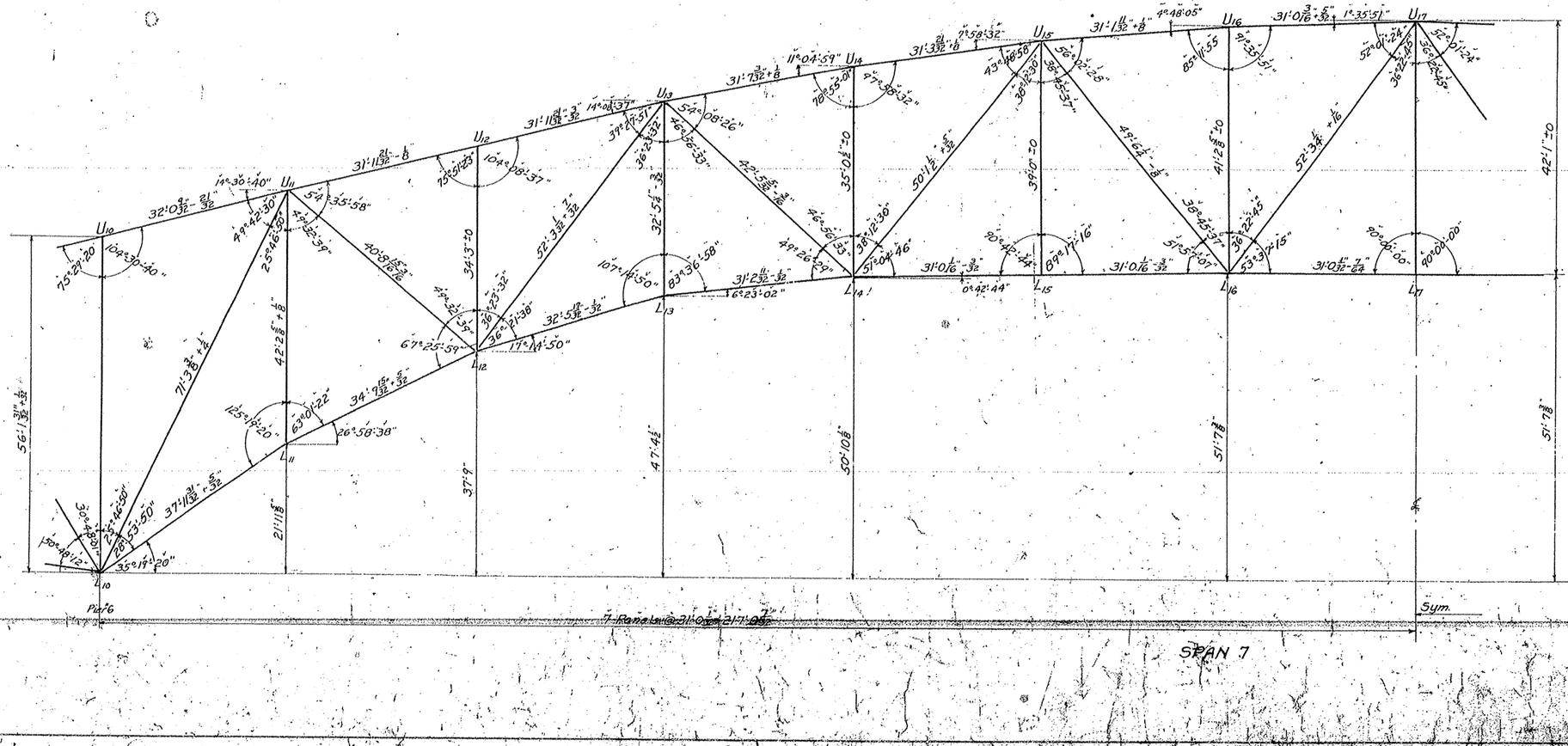
REVISED
Cut of H26 and leveling 7/30 8/1960 RCB

LAKE CHAMPLAIN BRIDGE COMMISSION
NEW YORK — VERMONT
LAKE CHAMPLAIN BRIDGE
Span 5
PLATES
Bridge Co. No. 1223

DRAWINGS MADE AT ELMIRA N.Y.
WORK FABRICATED AT ELMIRA N.Y.
IN CHARGE OF R.C. BEEBE
DRAWN BY S.W.P.
TRACED BY
CHECKED BY
ORDER NO. P3131
SHEET NO. 46



SPANS 6 & 8



SPAN 7

LAKE CHAMPLAIN BRIDGE COMMISSION
NEW YORK --- VERMONT

LAKE CHAMPLAIN BRIDGE

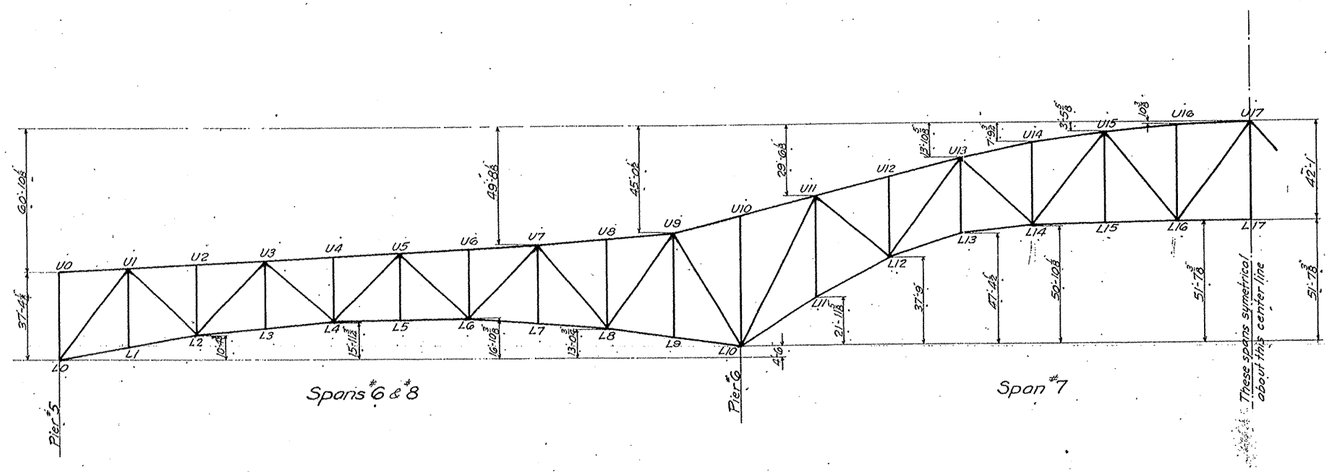
SPANS 6, 7 & 8

NMM CLO

Copyright, AMERICAN BRIDGE COMPANY, 1928

DRAWINGS MADE AT Elmira PLANT.
WORK FABRICATED AT Elmira PLANT.
IN CHARGE OF R.C. Beebe
DRAW. MADE BY P DATE 6.5.28.
DRAW. CHECKED BY [illegible] DATE 6-9-28.
ORDER No. F3132
SHEET NO. D1

MEMBER	STRESS IN KIPS DEAD	LIVE	TOTAL	ERECTION	SECTION	R AD GYR	AREA GROSS	AREA NET	ASSEMBLY	LACING
U0-U1					Cov. 20 × 3/8 = 7.5 2-Rs. 20 × 3/8 = 15.0 4-L.G. 4 × 3½ = 14.4		36.8			
U1-U3	-335	-148	-483	+79 -47	Cov. 20 × 3/8 = 7.5 2 Webs 20 × 7/16 = 17.5 2-L.G. 4 × 4 × 3/8 = 7.2 2-L.G. 4 × 4 × 7/16 = 10.6	7.59	42.8			
U3-U5	-346	-223	-569	+304	Cov. 20 × 3/8 = 7.5 2 Webs 20 × 9/16 = 22.5 2-L.G. 4 × 4 × 3/8 = 7.2 2-L.G. 4 × 4 × 7/16 = 10.6	7.57	47.8			DL. 2½ × ½ 1-Riv.
U5-U7	+29	+147 -179	+176 -149	+537	Cov. 20 × 3/8 = 7.5 + 6 H. 2-Rs. 20 × 3/8 = 15.0 + 12.8 H. 2-L.G. 4 × 4 × 3/8 = 7.2 + 5.7 H. 2-L.G. 4 × 4 × 7/16 = 10.6 + 8.3 H.		40.3	32.8	U1-U3 e=1.17 U3-U5 e=1.05 U5-U7 e=1.24 U7-U8 e=1.24	
Wind Stress		+129 -143								
U7-U8	+595	+169	+764	+867	Cov. 20 × 7/16 = 8.8 + 7.0 H. 2-Rs. 20 × 3/4 = 30.0 + 25.5 H. Bot 2-L.G. 4 × 3½ = 13.9 + 10.9 H. 2-L.G. 4 × 3½ = 13.9 + 10.9 H. Top		64.4	54.3		
U8-U9										
U9-U10	+1020	+217	+1237	+1110	Cov. 20 × ½ = 10.0 + 8.0 H. 4-Rs. 20 × ¾ = 60.0 + 51.0 H. 4-L.G. 4 × 4 × ½ = 27.8 + 21.8 H.		97.8	80.3	e=1.27	
U10-U11										
U11-U13	+419	+142	+561	+941	Cov. 20 × 3/8 = 7.5 + 6.0 H. 2-Rs. 20 × 7/8 = 22.5 + 19.1 H. 2-L.G. 4 × 4 × ½ = 7.2 + 5.7 H. 2-L.G. 4 × 4 × ½ = 9.5 + 7.5 H.		46.7	38.3	- e=1.26 - e=1.33	D.L. 5 × ½ 2-Riv.
U13-U14	-319	-191	-510	+310	Cov. 20 × 3/8 = 7.5 2-Webs 20 × 9/16 = 22.5 2-L.G. 4 × 4 × ½ = 7.2 2-L.G. 4 × 4 × ½ = 9.5	7.61	46.7			
U14-U15				+281						
U15-U16	-568	-228	-796	+25	Cov. 20 × ½ = 10.0 2-Rs. 20 × ¾ = 30.0 4-L.G. 4 × 4 × ½ = 27.8 2 Rs. 8 × ⅜ = 6.0	7.32	73.8		- e=1.18	
U16-U17										
L0-L2	+188	+79	+267	+147 -77	4-L. 5 × 3½ × ⅜ = 12.2 + 9.2 N 2-Rs. 20 × 7/8 = 17.5 + 14.9 N.		29.7	24.1		
L2-L4	+387	+199	+586	+833 -233	4-L.G. 4 × 4 × ½ = 19.0 + 15.0 N. 2-Rs. 20 × 7/8 = 27.5 + 23.4 N.		46.5	38.4	[ ]	D.L. 2½ × ½ 1-Riv.
L4-L6	+197	+229	+426	-572	4-L.G. 4 × 4 × 7/16 = 16.7 + 13.2 N. 2-Rs. 20 × 7/8 = 17.5 + 14.9 N.		34.2	28.1		
L6-L8	-296	-155	-451	-995	4-L.G. 4 × 4 × ¾ = 27.8 2-Rs. 20 × ¾ = 30.0	7.20	57.8			
L8-L10	-823	-189	-1012	-1364	4-L.G. 4 × 4 × ¾ = 27.8 2 Rs. 8 × ⅜ = 30 4-Rs. 20 × 11/16 = 55.0	6.71	90.8			
L10-L11	-972	-227	-1199	-1771	4-L.G. 4 × 4 × ¾ = 27.8 2-Rs. 24 × 13/16 = 39.0 2-Rs. 24 × ¾ = 36.0	7.97	102.8		[ ]	
L11-L12	-876	-204	-1080	-1412	4-L.G. 4 × 4 × ¾ = 27.8 4-Rs. 24 × 13/16 = 66.0	8.05	93.8			DL. 5 × ½ 2-Riv.
Wind Stress		-382								
L12-L13	+4	+135 -120	+139 -116	-752	4-L.G. 4 × 4 × ⅜ = 23.4 + 18.4 N 2-Rs. 24 × ½ = 24.0 + 20.0 N.	8.13	47.4	38.4		
Wind Stress		+382 -475								
L13-L14	+4	+130 -117	+134 -113	+641	4-L.G. 4 × 4 × ⅜ = 23.4 + 18.4 N. 2-Rs. 24 × 13/16 = 27.0 + 22.5 N.	8.13	50.4	40.9	[ ]	
Wind Stress		+475 -548								
L14-L16	+479	+214	+693	-147	4-L.G. 4 × 4 × ½ = 19.0 + 15.0 N 4-Rs. 24 × ⅞ = 60.0 + 50.0 N.	7.88	79.0	65.0		
Wind Stress		+600 -630								
L16-L17	+590	+231	+821		4-L.G. 4 × 4 × ½ = 19.0 + 15.0 N 2-Rs. 24 × ¾ = 33.0 + 27.5 N 2-Rs. 24 × ¾ = 36.0 + 30.0 N.	7.19	88.0	72.5	[ ]	
Wind Stress		+630 -640								
U1-L0	-308	-129	-437	-102	4-L.G. 4 × 4 × ⅜ = 21.2 2-Rs. 20 × 7/8 = 22.5	7.20	43.7		[ ]	D.L. 2½ × ½ 1-Riv.
U1-L2	+260	+106	+366	+306 -62	2-W 18 × 42.7		25.0	22.6		
U3-L2	-80	-89	-169	+128	2-W 18 × 42.7	6.64	25.0			
U3-L4	-48	-62 +64	-110 +16	-186	2-W 18 × 42.7	6.64	25.0		[ ]	
U5-L4	+212	+86	+298	+244	2-W 18 × 42.7		25.0	22.6		
U5-L6	-308	-99	-407	-275	2-W 18 × 42.7 + 25.0 2-Rs. 17½ × ½ = 15.3	6.13	40.3		[ ]	
U7-L6	+395	+112	+507	+273	2-W 18 × 42.7 + 25.0 + 20.7 N 2-Rs. 17½ × ½ = 17.5 + 15.5 N.		42.5	36.2		
U7-L8	-460	-118	-578	-260	4-L.G. 4 × 4 × ¾ = 27.8 2-Rs. 20 × 11/16 = 27.5	7.19	55.3			D.L. 5 × ½ 2-Riv.
U9-L8	+332	+123	+505	+227	4-L.G. 4 × 4 × ⅞ = 23.9 + 15.7 N 2-Rs. 20 × 11/16 = 9.5 + 12.5 N		46.3	38.0		D.L. 2½ × ½ 1-Riv.
U9-L10	-340	-115	-455	-136 +28	4-L.G. 4 × 4 × ¾ = 23.4 2-Rs. 20 × ¾ = 25.0	7.05	48.4			D.L. 5 × ⅞ 2-Riv.
U11-L10	-440	-155	-595	-283	4-L.G. 4 × 4 × ⅞ = 21.2 2-12 × ⅞ = 13.5 2-Rs. 24 × 11/16 = 33.0	8.00	67.7		[ ]	D.L. 5 × ½ 2-Riv.
U11-L12	+476	+133	+609	+204	4-L.G. 4 × 4 × ½ = 19.0 + 15.0 N 2-Rs. 24 × ⅞ = 30.0 + 25.0 N.		49.0	40.0		D.L. 2½ × ½ 1-Riv.
U13-L12	-690	-184	-874	-472	4-L.G. 4 × 4 × ¾ = 27.8 4-Rs. 24 × ⅞ = 60.0	8.20	87.8			D.L. 5 × ⅛ 2-Riv.
U13-L14	+428	+124	+552	+371	4-L.G. 4 × 4 × ½ = 19.0 + 15.0 N. 2-Rs. 20 × 11/16 = 27.5 + 23.4 N		46.5	38.4		
U15-L14	-270	-102	-372	-283	2-W 18 × 42.7 + 25.0 2-Rs. 17½ × 7/16 = 15.3	6.13	40.3		[ ]	D.L. 2½ × ½ 1-Riv.
U15-L16	+145	+80	+225	+100	2-W 18 × 42.7		25.0	22.3	[ ]	
U17-L16	-50	+62 -68	+12 -118	-31	2-W 13 × 42.7	6.64	25.0			
U0-L0	-36	-52	-88		4-L 7 × 3½ × ½ = 20.0		20.0			
Wind Stress		-82								
U1-L1					4-L 7 × 3½ × ½ = 20.0		20.0			S.L. 2½ × ½ 1-Riv.
U3-L3 - U5-L5 - U7-L7 - U9-L9 - U14-L14 - U16-L16 same as U1-L1										
U2-L2	-76	-64	-140		4-L 7 × 3½ × ½ = 20.0		20.0			
U4-L4	U6-L6	U8-L8	Same as U2-L2							
U10-L10	Top 165. Bot -42.	+14 -65	+79 -107		2-W 15 × 33.9 = 19.8		19.8		[ ]	
U11-L11	-260	-42	-242		4-L 8 × 3½ × ⅝ = 27.2		27.2			
U12-L12	-122	-66	-188		4-L 7 × 3½ × ½ = 20.0		20.0			
U13-L13	U15-L15	U17-L17	Same as U12-L12							



ELEVATION OF TRUSSES

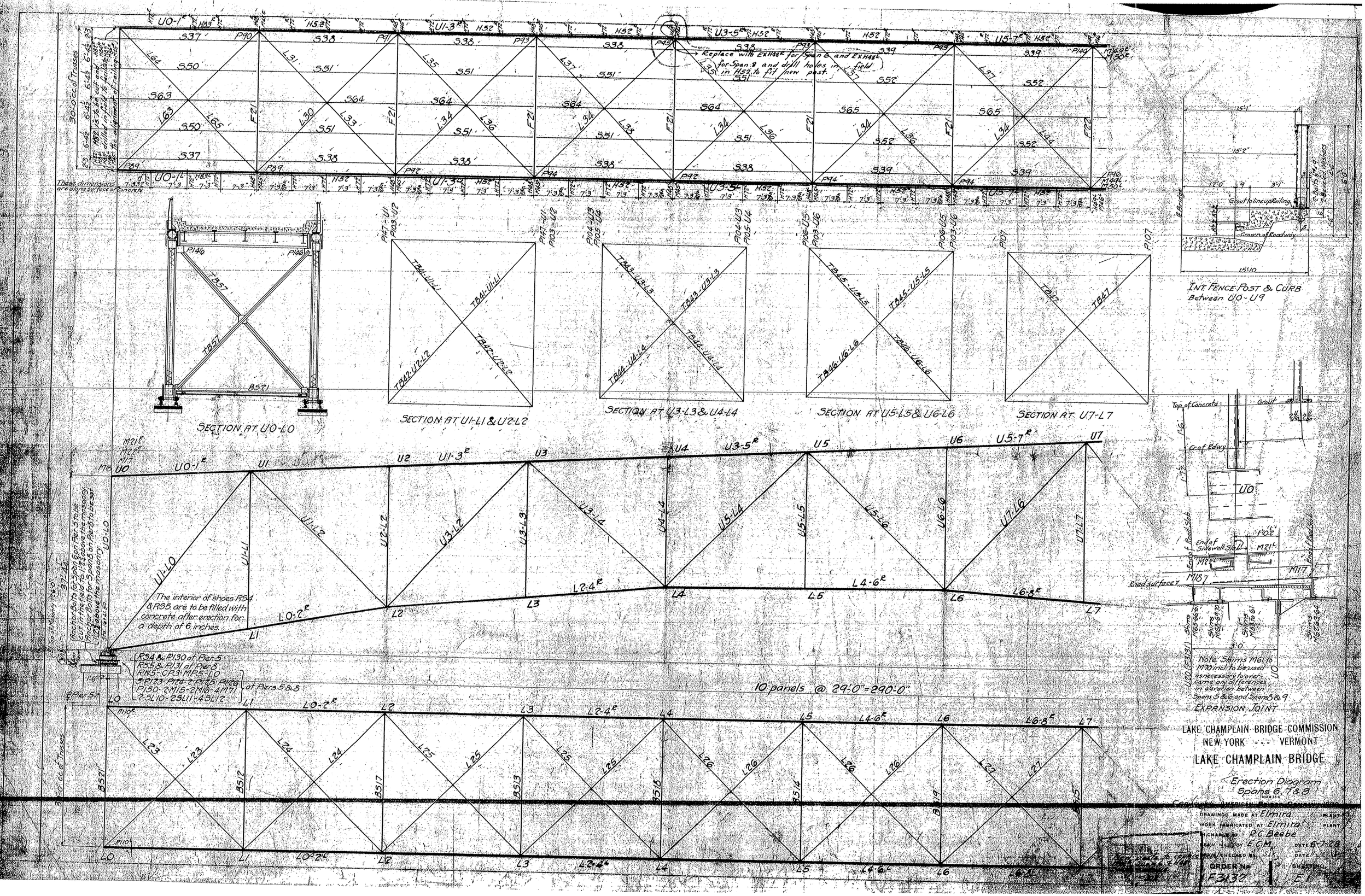
Sec. chgd. in members U13-14, U14-15, U15-16, U16-17, U17-18, U13-14, U14-15 1/11 JP

Revised Sept. 13. 1928
U7-8, L12-13 " 21 1928

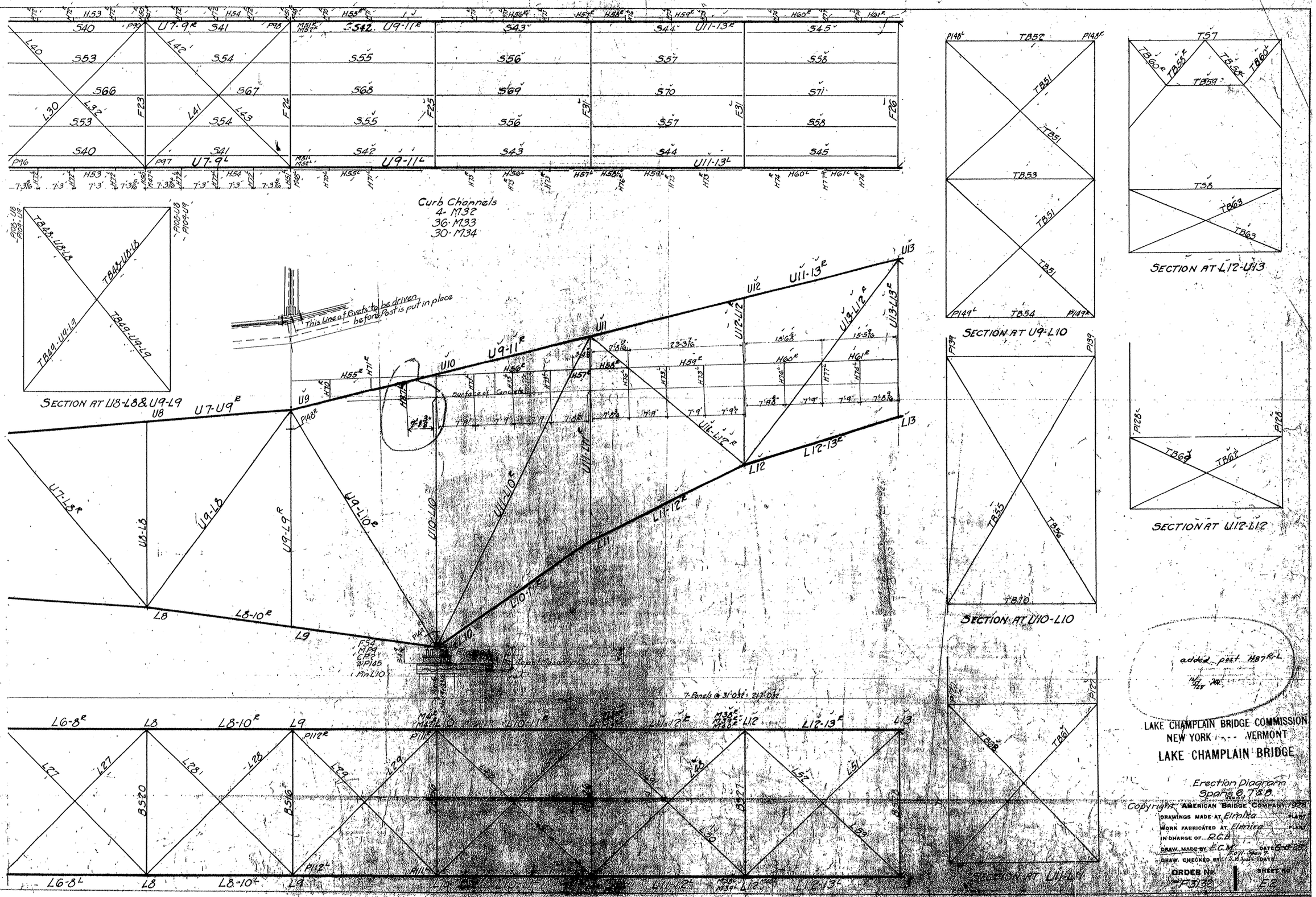
LAKE CHAMPLAIN BRIDGE COMMISSION
NEW YORK --- VERMONT
LAKE CHAMPLAIN BRIDGE

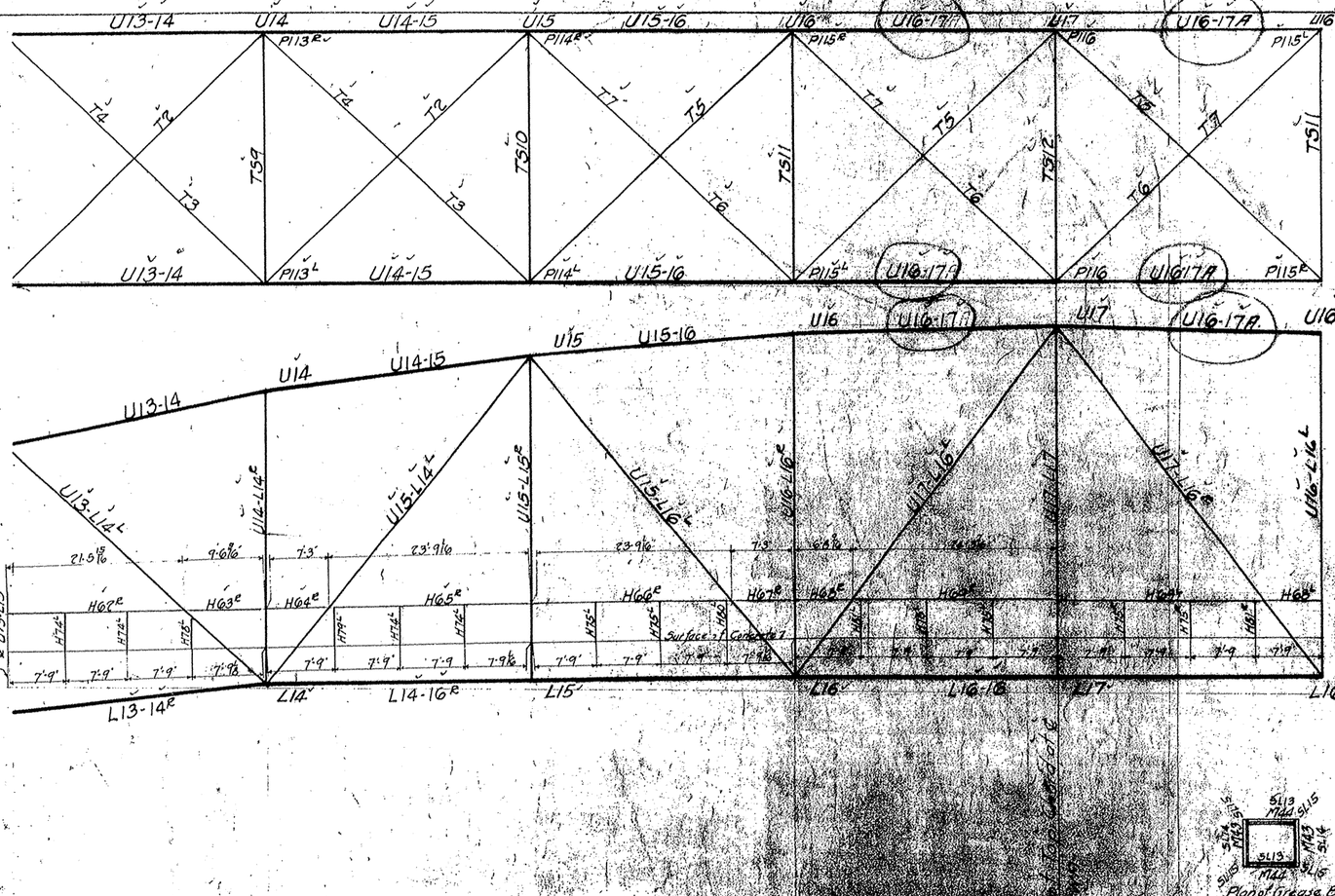
Spans No. 6, 7, & 8
Stress Sheet
AMERICAN BRIDGE COMPANY.
DRAWINGS MADE AT Elmira PLANT.
WORK FABRICATED AT PLANT.
IN CHARGE OF R.C. Beebe
DRAW. MADE BY R.A.H. DATE 6-26-28
DRAW. CHECKED BY R.F. DATE 6-5-28
ORDER No. F3132
SHEET NO. 02.

3



Replace with EXH48R for Span 6 and EXH48L for Span 8 and drill holes in field in H52 to fit new post.
These dimensions are along surface of concrete
30'-0" c.c. of Trusses
SECTION AT U0-L0
SECTION AT U1-L1 & U2-L2
SECTION AT U3-L3 & U4-L4
SECTION AT U5-L5 & U6-L6
SECTION AT U7-L7
INT. FENCE POST & CURB Between U0-U9
Grout to line up Railing
Crown of Roadway
Top of Concrete
Grout
End of Sidewalk Slab
Road surface
The interior of shoes RS4 & RS5 are to be filled with concrete after erection for a depth of 6 inches.
RS4 & P130 at Pier 5
RS5 & P131 at Pier 8
RN5-CP3-MP5-L0
5-P123-P124-2-P125-P126
P150-2M15-2M16-4M71
2-SL10-2SL11-4SL12
at Piers 5 & 8
10 panels @ 29'-0" = 290'-0"
Note: Shims M61 to M70 incl. to be used as necessary to overcome any differences in elevation between Spans 5 & 6 and Spans 8 & 9
EXPANSION JOINT
LAKE CHAMPLAIN BRIDGE COMMISSION
NEW YORK - - - VERMONT
LAKE CHAMPLAIN BRIDGE
Erection Diagram
Spans 6, 7 & 8
DRAWINGS MADE AT Elmira
WORK FABRICATED AT Elmira
CHARGED BY R.C. Beebe
DRAWN BY E.C.M.
DATE 6-7-28
ORDER No. F3132
SHEET NO. E1


Curb Channels
4- M32
36- M33
30- M34
This Line of Rivets to be driven before Post is put in place
Surface of Concrete
SECTION AT U8-L8 & U9-L9
SECTION AT U9-L10
SECTION AT L12-U13
SECTION AT U12-L12
SECTION AT U10-L10
SECTION AT U11-L11
added post H87R-L
LAKE CHAMPLAIN BRIDGE COMMISSION
NEW YORK - - - VERMONT
LAKE CHAMPLAIN BRIDGE
Erection Diagram
Spans 6, 7 & 8.
Copyright AMERICAN BRIDGE COMPANY 1928
DRAWINGS MADE AT Elmira PLANT
WORK FABRICATED AT Elmira PLANT
IN CHARGE OF R.C.B.
DRAW. MADE BY E.C.M. DATE
DRAW. CHECKED BY S.K. Spaak DATE
ORDER No. F3132
SHEET No. E2


U13-14
U14
U14-15
U15
U15-16
U16
U16-17A
U17
U16-17A
U16
P113R
P114R
P115R
P116
P115L
T4
T2
T3
T9
T10
T5
T7
T6
T11
T12
U13-14
P113L
U14-15
P114L
U15-16
P115L
U16-17A
P116
U16-17A
P115R
U13-L13
U13-L14L
U14-L14E
U15-L14L
U15-L15E
U15-L16E
U15-L16L
U16-L16E
U17-L16L
U17-L17E
U16-L17E
L13
L14
L15
L16
L17
L13-14R
L14-16R
L16-16
Surface of Concrete
H62E
H63E
H64E
H65E
H66E
H67E
H68E
H62L
H63L
H64L
H65L
H66L
H67L
H68L
7'-9"
7'-9 1/2"
7'-9 15/16"
7'-3"
21'-5 15/16"
9'-6 7/8"
23'-9 1/16"
23'-9 1/8"
6'-8 1/4"
16'-0 3/4"
6'-8 1/8"
15'-8 1/2"
15'-0"
9"
3'-3 1/2"
4'-6"
6'-0"
1'-6"
2 Bolts 3/4"ø
2 Beveled Washers
Grout to line up Railing
Crown of Roadway
℄ Bridge T
INT. FENCE POSTS & CURB
between U10-U10
T39
TB64
BS22
SECTION AT U14-L14
T310
TB65
BS23
SECTION AT U15-L15
R56
END
MP9
P143
2 P144
2 M43
2 M44
Pin L10
1 SL13
2 SL14
4 SL15
SL13
M44
SL15
M43
SL14
SL16
SL12
Plan of Grease Box
Top of Masonry
El. 130.10
EXP.
T311
TB66
BS24
T312
TB67
BS25
SECTION AT U16-L16
SECTION AT U17-L17
546'
547'
548'
559'
560'
572'
573'
574'
L54
L55
L56
L57
L58
L59
L60
F27
F28
F29
L13-14L
L13-14E
L14-16E
L16-17E
L16-17L
L17-L17
H63L
H64L
H65L
H66L
H67L
H68L
H69L
H70L
H71L
H72L
H73L
H74L
H75L
H76L
H77L
H78L
H79L
H80L
H81L
H82L
H83L
H84L
H85L
H86L
H87L
H88L
H89L
H90L
H91L
H92L
H93L
H94L
H95L
H96L
H97L
H98L
H99L
H100L
H101L
H102L

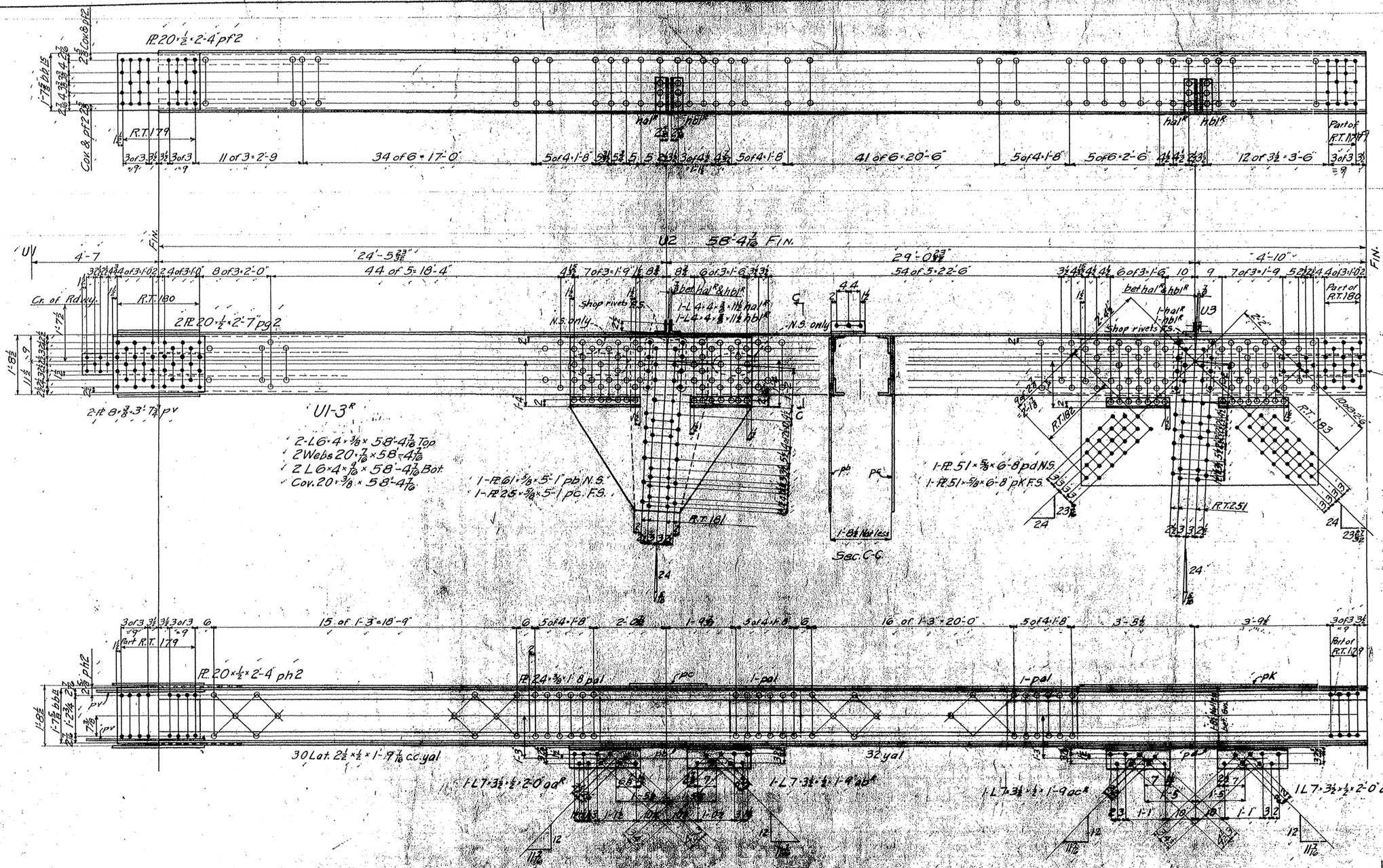
REQUIRED		
2	Top Chords	U0-1R
2	" "	U0-1L

LAKE CHAMPLAIN BRIDGE COMMISSION
NEW YORK --- VERMONT

LAKE CHAMPLAIN BRIDGE
SPANS 6 & 8
TOP CHORDS

Copyright AMERICAN BRIDGE COMPANY 1932

DRAWINGS MADE AT Elmira PLANT
WORK FABRICATED AT PLANT
IN CHARGE OF R.C. Beebe
DRAW. MADE BY E DATE 8/29/32
DRAW. CHECKED BY S.K. DATE
ORDER No. E-3132
SHEET No.



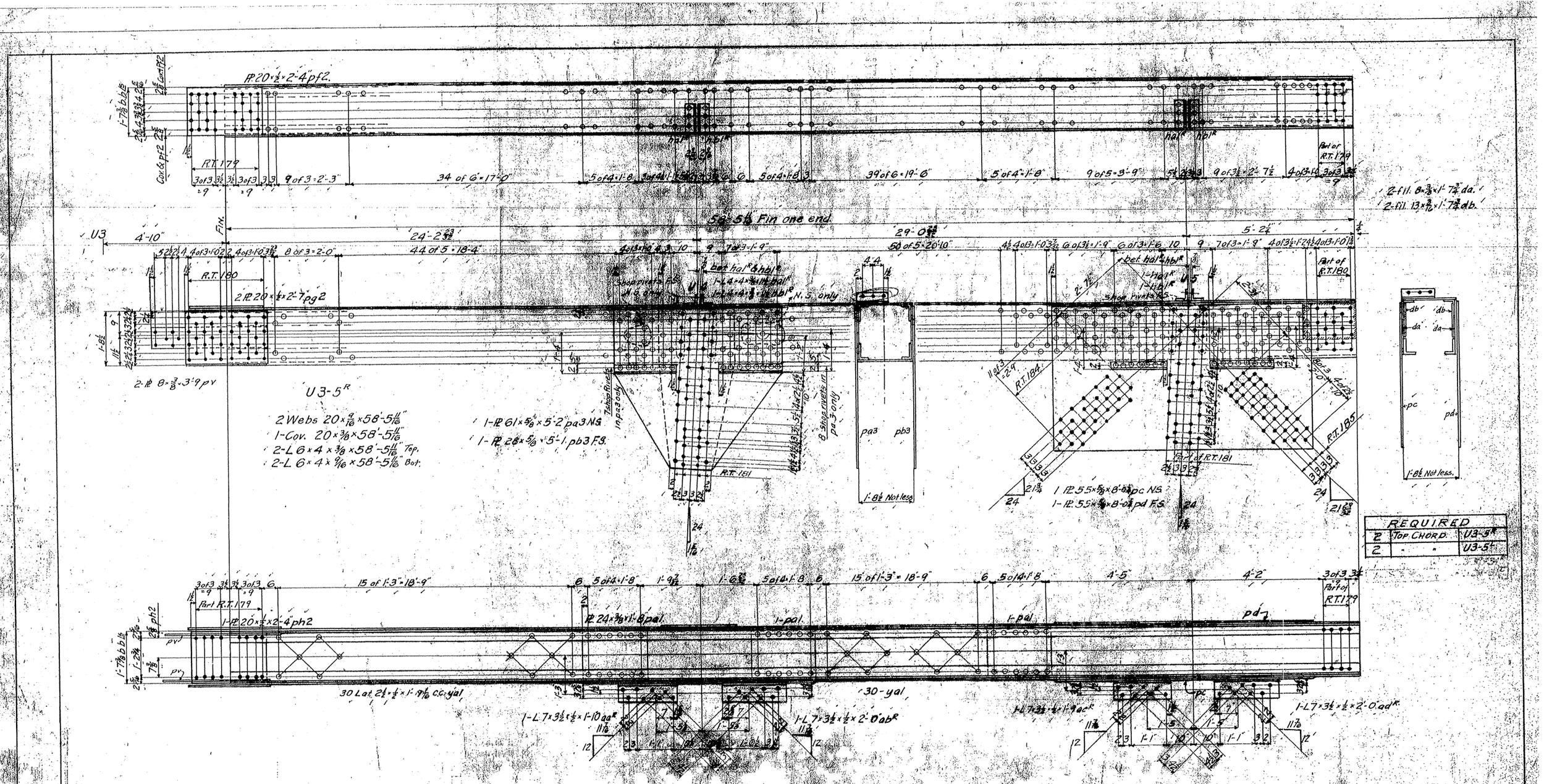
REQUIRED		
2	Top Chord	U1-3R
2	" "	U1-3L

LAKE CHAMPLAIN BRIDGE COMMISSION
NEW YORK — VERMONT

LAKE CHAMPLAIN BRIDGE
Spans 6+8
Top Chords

Notes:
Rivets 7/8"
Holes 15/16"
Field connection marked R.T. are to be subpunched & reamed to a metal templet.

DRAWINGS MADE AT ELMIRA PLANT
WORK FABRICATED AT ELMIRA PLANT
IN CHARGE OF R.C. Beebe
DRAW. MADE BY [illegible] DATE 8/25/25
DRAW. CHECKED BY DATE
ORDER No. F3132



REQUIRED		
2	Top Chord	U3-5R
2	" "	U3-5L

LAKE CHAMPLAIN BRIDGE COMMISSION
NEW YORK --- VERMONT

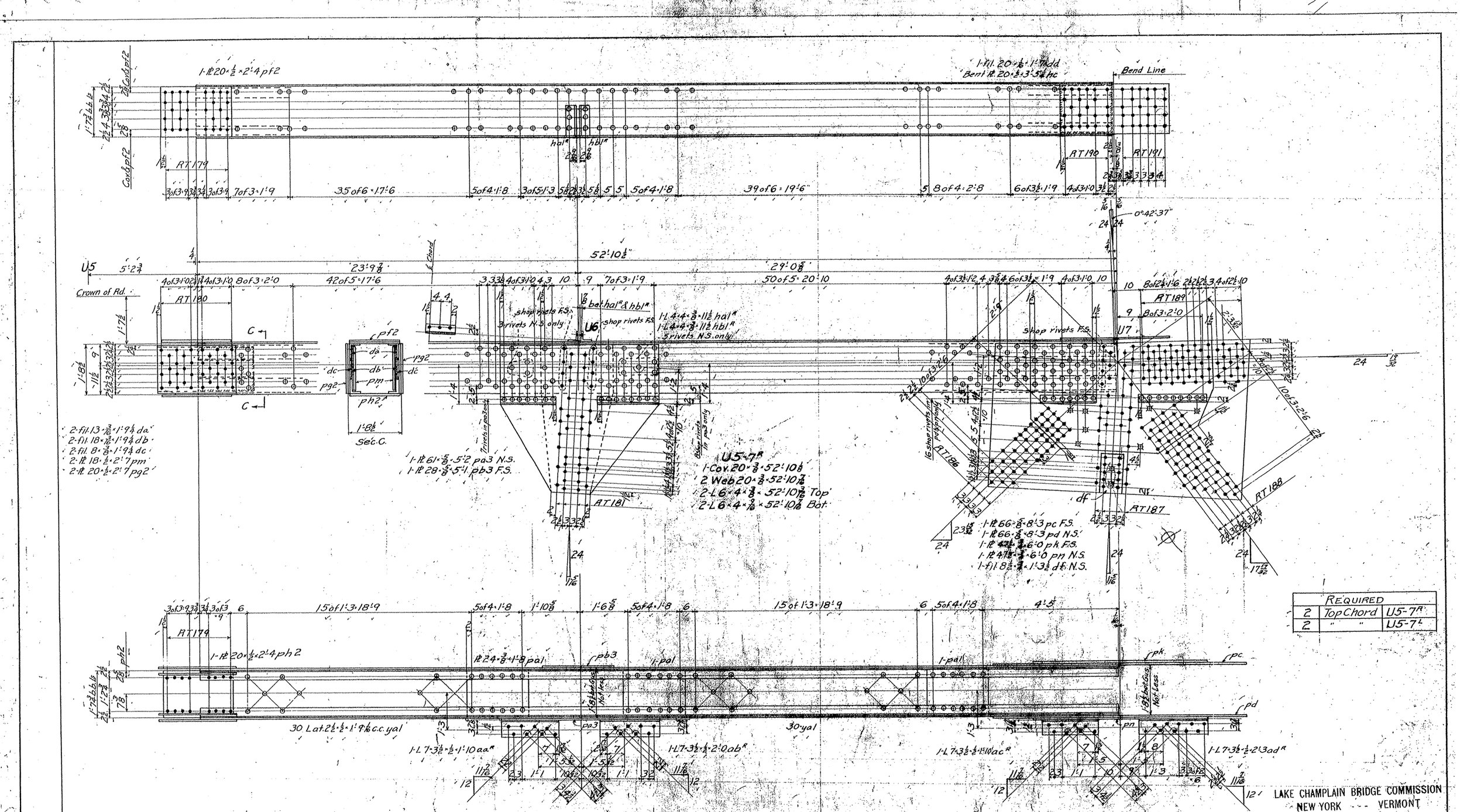
LAKE CHAMPLAIN BRIDGE
SPANS 6&8
TOP CHORDS

Specifications: Lake Champlain Bridge Commission.
Rivets 7/8"
Holes 15/16"
Field connections marked R.T. to be sub-punched and reamed to a metal templet.

Copyright AMERICAN BRIDGE COMPANY

DRAWINGS MADE AT ELMIRA PLANT
WORK FABRICATED AT ELMIRA PLANT
IN CHARGE OF R.C. Beebe
DRAW. MADE BY [illegible] APM. DATE [illegible]
DRAW. CHECKED BY S.K. DATE [illegible]

ORDER No. F3132 | SHEET No. 3



REQUIRED		
2	Top Chord	U5-7R
2	" "	U5-7L

Notes:
Specifications Lake Champlain Bridge Commission
Rivets 7/8"
Holes 15/16"
Field connections marked RT are to be sub-punched and reamed to a metal templet.
Sheared edges of gussets over 5/8 thick to be planed 1/4.

LAKE CHAMPLAIN BRIDGE COMMISSION
NEW YORK - - - VERMONT

LAKE CHAMPLAIN BRIDGE
SPANS 6 & 8
TOP CHORDS

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DRAWINGS MADE AT Elmira PLANT.
WORK FABRICATED AT Elmira PLANT.
IN CHARGE OF R.C. Beebe
DRAW. MADE BY [illegible] DATE 8-24-28
DRAW. CHECKED BY S.K. DATE 10-13-28
ORDER No. F3132 SHEET NO. 4

RT 191

RT 198

RT 197

Bent lt 20-¾·4·4 ha
1 fil 20-⅛·2·1⅜ dd

Bend line

Section showing diaph.

Sec A

2 lt 21-¾·3·4 pk
2 fil 18-⅞·1·10½ da
2 fil 8·¾·1·10½ dc.

4°58'17"

58'-2 5/32

29'-1⅛

29'-1 3/32

RT 189

0°42'37"

U8

U7-9R

1 Cov 20·7/16·58'-0 23/32
2 Web 20·¾·58'-2 27/32
2 L 6·4·¾·58'-0 23/32 Top
2 L 6·4·¾·58'-2 27/32 Bot.

1 L 4·4·⅜·11⅛ hb R
1 L 6·4·⅜·11½ hc R

U7

Part of RT 187

1 lt 70·⅝·5'-11 pd N.S.
1 lt 44·⅝·5'-11 pf F.S.

RT 192

2 L 4·3½·½·1'-0 ad
1 lt 20·⅜·1'-0 pc
2 L 4·3½·½·1'-3½ ac R
1 lt 20·⅜·1'-3½ pb.

28 Lal 2½·½·1'-9⅛ c-c yal

1 L 7·3½·½·2'-4½ ab R

U7-9L

1 L 8½·⅞·9'-11 pg N.S.
1 L 8½·⅝·9'-11 ph F.S.
2 lt 25½·¾·5'-8 pm

Part of RT 194

RT 193

RT 195

RT 196

U9

REQUIRED		
2	Top Chord	U7-9R
2	" "	U7-9L

LAKE CHAMPLAIN BRIDGE COMMISSION
NEW YORK --- VERMONT

LAKE CHAMPLAIN BRIDGE
SPANS 6 & 8
TOP CHORDS

Notes:-
- Specifications Lake Champlain Bridge Commission
- Rivets ⅞"ø
- Holes ⅞"ø
- Field connections marked RT are to be sub-punched and reamed in matching templet.
- Sheared edges of main material over ⅝" and gussets over ⅝" planed.

REVISED
Cut plate pk at U9 to clear holes in top flg. Mar 1928

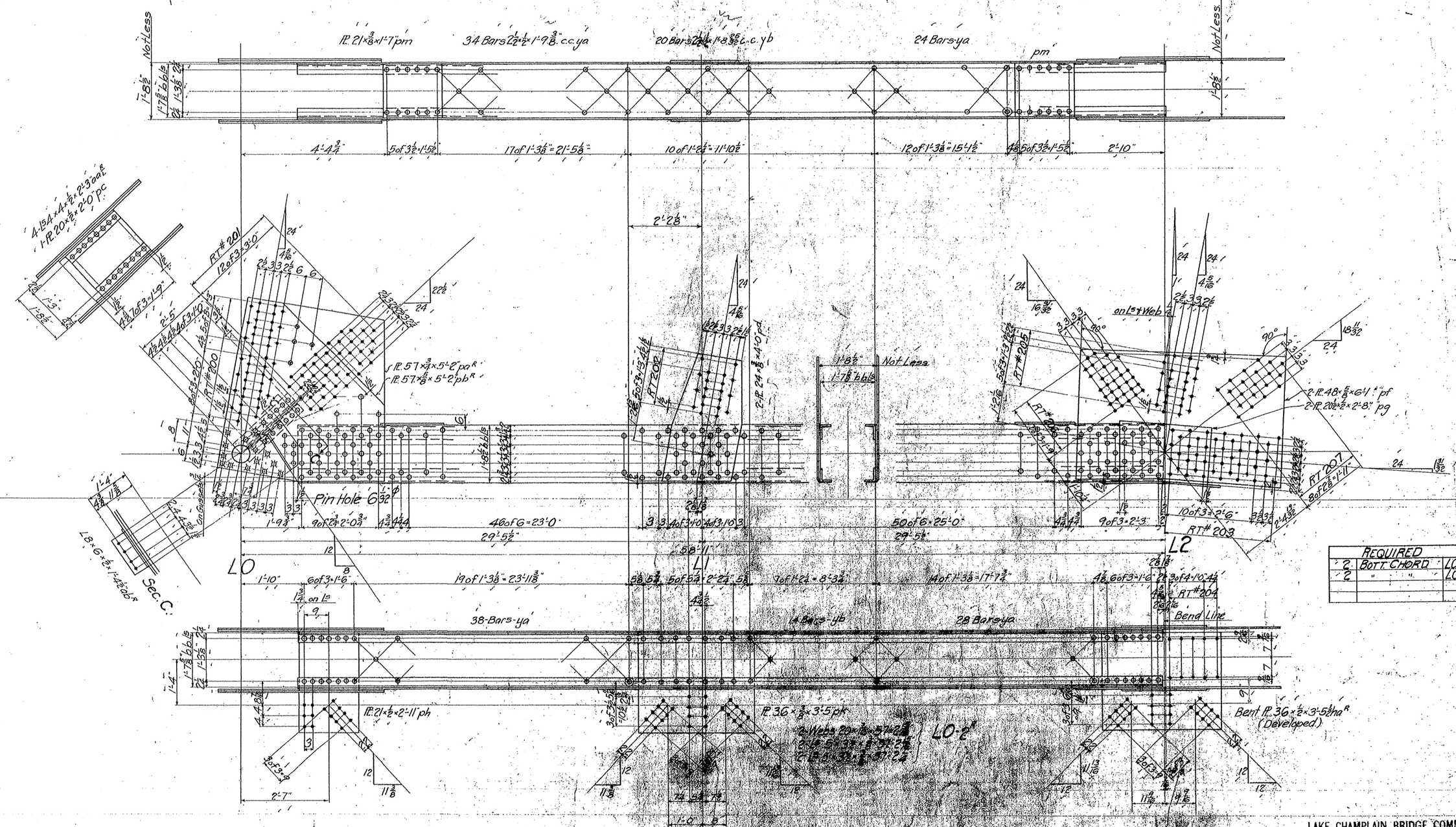
REVISED
Rivets changed at U7.

REVISED
Bill of Material & Shop Drawings

DRAWINGS MADE AT Elmira PLANT
WORK FABRICATED AT Elmira PLANT
IN CHARGE OF A.C. Bechtel
DRAW. MADE BY E.T. DATE 9-27-28
DRAW. CHECKED BY J.K. DATE 10-15-28
ORDER NO. F3132 SHEET NO. 5

Copyright AMERICAN BRIDGE COMPANY 1928

Shop Bill Page 53



REQUIRED		
2	BOTT. CHORD	LO-2R
2	" "	LO-2L

NOTES:-
Specifications Lake Champlain Bridge Commission.
Rivets 7/8 φ
Holes 15/16 φ
Field connections marked RT are to be sub-punched and reamed to a metal templet.
Sheared edges of gussets over 5/8 thick planed 1/4
Washer 2 1/2 × 1/2 × 15/16 ⌀ Hole.

LAKE CHAMPLAIN BRIDGE COMMISSION
NEW YORK - - - VERMONT

LAKE CHAMPLAIN BRIDGE

BOTTOM CHORDS

Copyright AMERICAN BRIDGE COMPANY 1928

DRAWINGS MADE AT Elmira PLANT
WORK FABRICATED BY Elmira PLANT
IN CHARGE OF R.C. Beebe
DRAW. MADE BY J.G.B. G.E.S. DATE 2-30-28
DRAW. CHECKED BY S.K. DATE 10-18-28
ORDER No. F3132 SHEET NO. 6

Not More

Fl. 21×$\frac{3}{8}$×1'-6$\frac{1}{2}$" pg — 38 Bars 2$\frac{1}{2}$×$\frac{1}{2}$×1'-7$\frac{13}{16}$" ya 7 c.c. — 6 Bars 2$\frac{1}{2}$×$\frac{1}{2}$×1'-7$\frac{13}{16}$" c.c. -yb — 38 Bars ya 7 — Fl. 21×$\frac{3}{8}$×1'-6$\frac{5}{8}$ pf

Not less

1'-2$\frac{3}{8}$" — 1'-2" — 2 L 3$\frac{1}{2}$×3$\frac{1}{2}$×$\frac{7}{16}$ — 2 L 2$\frac{1}{2}$×2$\frac{1}{2}$×$\frac{5}{16}$ — 1'-8$\frac{1}{2}$"

3'-7$\frac{1}{2}$" — 5 of 3$\frac{1}{2}$=1'-5$\frac{1}{2}$" = 17$\frac{3}{32}$" — 19 of 1'-1$\frac{7}{8}$" = 21'-11$\frac{3}{8}$" — 3 of 1'-0$\frac{13}{16}$" abt = 3'-2$\frac{1}{2}$" — 19 of 1'-1$\frac{7}{8}$" = 21'-11$\frac{3}{8}$" — 1$\frac{15}{16}$ 5 of 3$\frac{1}{2}$=1'-5$\frac{1}{2}$" — 3'-10"

24' — 2$\frac{5}{16}$' — 1'-2$\frac{5}{16}$" 5 of 3$\frac{1}{2}$=1'-5$\frac{1}{2}$" = 17$\frac{3}{32}$" — RT #202 — 2 Pl 24×$\frac{3}{8}$×3'-11$\frac{1}{2}$" — 1'-8$\frac{1}{2}$" Not Less.

24 — 1'-2$\frac{5}{16}$" 5 of 3$\frac{1}{2}$=1'-5$\frac{1}{2}$" = 17$\frac{3}{32}$" — RT #203 — 10 of 3=2'-6" — 48 of 6=24'-0" — 29'-1$\frac{17}{32}$" — 22 of 1'-1$\frac{7}{8}$" = 25'-5$\frac{1}{4}$" — 44 Bars ya 7

58'-3$\frac{3}{32}$" Fin. one end. (on working Line)

48 of 6=24'-0" — 29'-1$\frac{9}{16}$" — 22 of 1'-1$\frac{7}{8}$" = 25'-5$\frac{1}{4}$" — 44 Bars ya 7

24 — 21$\frac{31}{32}$ — 2°18'-41" — 24' — 24' — Fin. 2$\frac{5}{16}$' — 20$\frac{3}{32}$ — 90° — RT #209 — 5 of 3=1'-3" = 15$\frac{3}{32}$" — 1'-2$\frac{5}{16}$" — 2 Pl 54×$\frac{3}{4}$×7'-0 pb — 2 Pl 20×$\frac{3}{4}$×3'-8$\frac{1}{2}$ pc — RT #208 — 10 of 3=2'-6" — 11 of 3=2'-9" — 5$\frac{1}{2}$" — RT #210 — 1$\frac{15}{16}$" — 24

L2 — 2$\frac{1}{2}$ 3 of 4'-1'-0" 4$\frac{1}{2}$ 4$\frac{1}{2}$ 1$\frac{13}{32}$ — RT #204

L3 — 7 of 5$\frac{1}{2}$" = 3'-2$\frac{1}{2}$" — 1$\frac{1}{2}$" — 1'-2$\frac{5}{16}$" — 1'-8$\frac{1}{2}$" — 3 of 5$\frac{1}{2}$" = 1'-4$\frac{1}{2}$" — 3 of 5$\frac{1}{2}$" = 1'-4$\frac{1}{2}$" — Fl. 35×$\frac{3}{8}$×3'-6" pd — 8$\frac{1}{4}$ — 8$\frac{1}{4}$ — 14" — 16" — 12 — 12 — 12 — 12

L4 — 5$\frac{5}{16}$ 5 of 3$\frac{3}{4}$=1'-6$\frac{3}{4}$" = 22$\frac{1}{2}$" — RT #211 — 3 of 3$\frac{3}{4}$ = 11$\frac{1}{4}$" — 4$\frac{1}{2}$ — Bend Line — 3 of 5 = 1'-3" — 11$\frac{3}{16}$" — 9$\frac{7}{16}$" — 11$\frac{15}{16}$" — 12 — 12 — 12

Bent Pl. 35×$\frac{1}{2}$×3'-6" ha^R (Developed)

REQUIRED		
2	Bott. Chords	L2-4^R
2	" "	L2-4^L

2-Pl. 20×$\frac{11}{16}$×58'-3$\frac{3}{32}$"
2-L^s 6×4×$\frac{1}{2}$×58'-3$\frac{3}{32}$"
2-L^s 6×4×$\frac{1}{2}$×58'-2$\frac{7}{8}$"
} L2-4^R

NOTES:-
Specifications Lake Champlain Bridge Commission.
Holes $\frac{15}{16}$" ϕ
Rivets $\frac{7}{8}$" ϕ
Field connections marked RT are to be sub-punched and reamed to a metal templet.
Sheared edges of gussets over $\frac{5}{8}$" thick planed $\frac{1}{4}$".
Washers 2$\frac{1}{2}$×$\frac{1}{2}$×1$\frac{5}{16}$ hole

Shop Bill Page 57

LAKE CHAMPLAIN BRIDGE COMMISSION
NEW YORK --- VERMONT

LAKE CHAMPLAIN BRIDGE

BOTTOM CHORDS

MMM 23 0

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DRAWINGS MADE AT Elmira PLANT.
WORK FABRICATED AT Elmira PLANT.
IN CHARGE OF R.C. Beebe.
DRAW. MADE BY J.G.G-G.E.S. DATE 3-30-28
DRAW. CHECKED BY S.K. DATE 4-17-28
ORDER No. F3132
SHEET No. 7

Fl. 21×3/8×1'-6 1/2" pg | 38 Bars 2 1/2×1/2×1'-8 5/32" c.c. ya8 | 6 Bars 2 1/2×1/2×1'-7 7/16" c.c. yb | 38 Bars 2 1/2×1/2×1'-8 1/4" cc. yc | pg

1'-8 3/8" Not More | 1'-8 1/2" Not Less

3'-9 7/8" | 5 of 3 1/2 = 1'-5 1/2" | 19 of 1'-1 7/8" = 21'-11 5/8" | 3 of 1'-0 13/16" abt 3'-2 1/2" | 19 of 1'-2" = 22'-2" | 5 of 3 1/2 = 1'-5 1/2" | 3'-10 31/32"

24 | 2°-18'-41" | 3/32 | FIN.

1'-8 1/2" Not Less.

2-Fl. 24×3/8×3'-10" pa

2-Fl. 58 1/2×3/4×6'-11 1/2" pb
2-Fl. 21 1/2×3/4×3'-8" pc.

RT #210 | 11 of 3 = 2'-9" | 5 1/2 | 4 1/4 4 1/4

48 of 6 = 24'-0" | 29'-0"

49 of 6 = 24'-6" | 28'-11 31/32"

57'-11 3/32" FIN. (on working line.)

L4 | L5 | L6

RT #211 | 22 of 3 = 2'-9" | 4 1/2

22 of 1'-1 7/8" = 25'-5 1/4"

7 of 5 1/2 = 3'-2 1/2"

22 of 1'-2" = 25'-8"

RT #212 | 5 of 3 = 1'-4 1/4" | 5 of 3 = 1'-4 1/4"

RT #213 | 12 of 3" = 3'-0"

RT #214 | 10 of 3 = 2'-6" | 4 1/4

11 of 3 = 2'-9"

RT 215 | Bend Line | 2 @ 5 of 3 3/4 = 1'-6 3/4"

44-ya8 | 44-yc

Fl. 35×3/8×3'-6 pd.

2-Pl. 20×7/16×58'-0 27/32"
2-L 6×4×7/16×58'-0 27/32"
2-L 6×4×7/16×57'-11 9/16"
} L4-6R

Bent Pl. 35×1/2×3'-6 3/8" ha R
Developed.

REQUIRED		
2	BOTT. CHORD	L4-6R
2	" "	L4-6L

Plate ha 3/4 c. to c. spacing and Lgth. Date 10/7/28 S.K.

NOTES:-
- Specifications Lake Champlain Bridge Commission.
- Rivets 7/8" φ
- Holes 15/16" φ
- Field connections marked RT to be sub-punched and reamed to a metal templet.
- Sheared edges of gussets over 5/8" thick planed 1/4"
- Washers 2 1/2 × 1/2 - 15/16" φ hole

Shop Bill Page 38

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LAKE CHAMPLAIN BRIDGE COMMISSION
NEW YORK --- VERMONT

LAKE CHAMPLAIN BRIDGE
BOTTOM CHORDS
WHIPPLE

DRAWINGS MADE AT Elmira PLANT.
WORK FABRICATED AT Elmira PLANT.
IN CHARGE OF R.C. Beebe.
DRAW. MADE BY JGG-G.E.S. DATE 8-31-28
DRAW. CHECKED BY S.K. DATE 9-21-28
ORDER No. F3132 SHEET No. 1 8

Not More

Not Less

1'-8⅜"

1'-7 11/16"

1'-8½"

PL 21×⅜×1'-6½" pg

24-Bars 5×½×2'-3 5/16" ya

pf

fb

fa

PL 21×⅜×1'-6½ pf

24 Bars ya

Fill. 3½×½×6 fa

11-Fills. 3½×½×1'-0½ fb

2-fa
11-fb

3'-8½"

5 of 3½=1'-5½"

1'-5½"

10 of 1'-8⅜" = 16'-11¾"
(1'-1⅞ + 6½ = 1'-8⅜)

1'-5⅛"

6

1'-7⅞"

1'-11⅛"

10 of 1'-8⅜" = 16'-11¾"
(1'-1⅞ + 6½ = 1'-8⅜)

1'-5½"

3'-5⅜"

24

2°-18'-43"

31/32

FIN.

1'-8½"

RT 214

2 0 of 3'-2'-6"

4 11 5⅛

49 of 6 = 24'-6"

29'-0⅞"

24

1 1/16

2-PL 24×⅜×3'-10" pa

1'-8½" Not Less

46 of 6 = 23'-0"

29'-0 27/32"

58'-1 23/32" FIN. (on working line)

24

2°-19'-24"

FIN.

15 1/16

2-PLs 6½×⅜×7'-6½" pb

2-PLs 2½×⅜×3'-9½" pc

RT #218

13 of 2'-2"=28½"

RT #219

2 0 of 3'-1'-6" 6 of 3¼=1'-7⅞"

2.5

RT #216

RT #217

L6

2 5 of 3¾=1'-6¾" 5½ 1'-5½"

RT 215

13 of 1'-8⅜" = 22'-0⅞"
(1'-1⅞ + 6½ = 1'-8⅜)

2-fa
14-fb
30-Bars ya

1'-5½" 5½ 7 of 5½ 3'-2½" 5½ 1'-5½"

13 of 1'-8⅜" = 22'-0⅞"
(1'-1⅞ + 6½ = 1'-8⅜)

2-fa
14-fb
30 Bars ya

L7

L8

1'-5½" 5 3/32 5 of 3=1'-3" 2½

2 6 5 of 3¾=1'-6¾"

Bend Line

RT #220

PL 35×⅜×3'-6" pd

Bent PL 35×½×3'-6" ha^R
Developed.

2-PL 20×¾×58'-2 13/32"
2-Ls 6×4×⅜×58'-2 13/32"
2-Ls 6×4×⅜×58'-1 5/16"
} L6-8^R

REQUIRED		
2	BOTT. CHORD	L6-8^R
2	" "	L6-8^L

NOTES:-
Specifications Lake Champlain Bridge Commission.
Rivets ⅞" ϕ
Holes 15/16" ϕ
Field connections marked R.T. to be sub-punched and reamed to a metal templet.
Sheared edges of gussets over ⅝" thick planed ¼"

LAKE CHAMPLAIN BRIDGE COMMISSION
NEW YORK --- VERMONT
LAKE CHAMPLAIN BRIDGE
BOTTOM CHORDS
HENLEY

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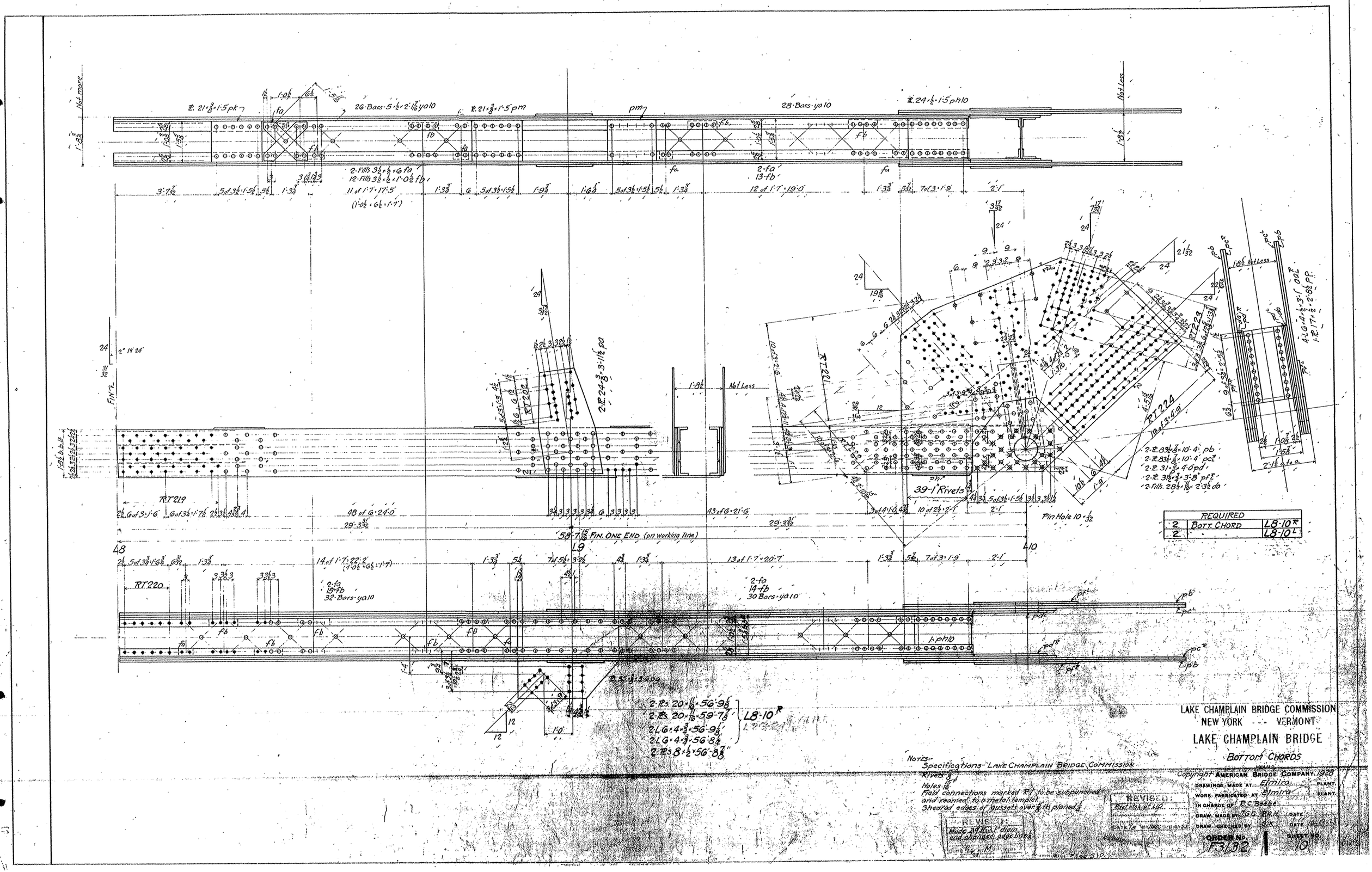
DRAWINGS MADE AT Elmira PLANT
WORK FABRICATED AT Elmira PLANT
IN CHARGE OF R.C. Beebe
DRAW. MADE BY IGG GES DATE 7-1-26
DRAW. CHECKED BY S.A. DATE 7-13-26
ORDER No. F3132
SHEET NO. 9

Name Bill Page 59

25-4



REQUIRED		
2	BOTT. CHORD	L8-10R
2	"	L8-10L

LAKE CHAMPLAIN BRIDGE COMMISSION
NEW YORK - - - VERMONT

LAKE CHAMPLAIN BRIDGE

BOTTOM CHORDS

NOTES:-
Specifications- LAKE CHAMPLAIN BRIDGE COMMISSION
Rivets 7/8"
Holes 15/16"
Field connections marked RT to be subpunched and reamed to a metal templet.
Sheared edges of gussets over ⅜ tk. planed ¼

REVISED:
Made 39 Rivets 1" diam. and changed edge line ⅛

REVISED:
Rivet stick at L10

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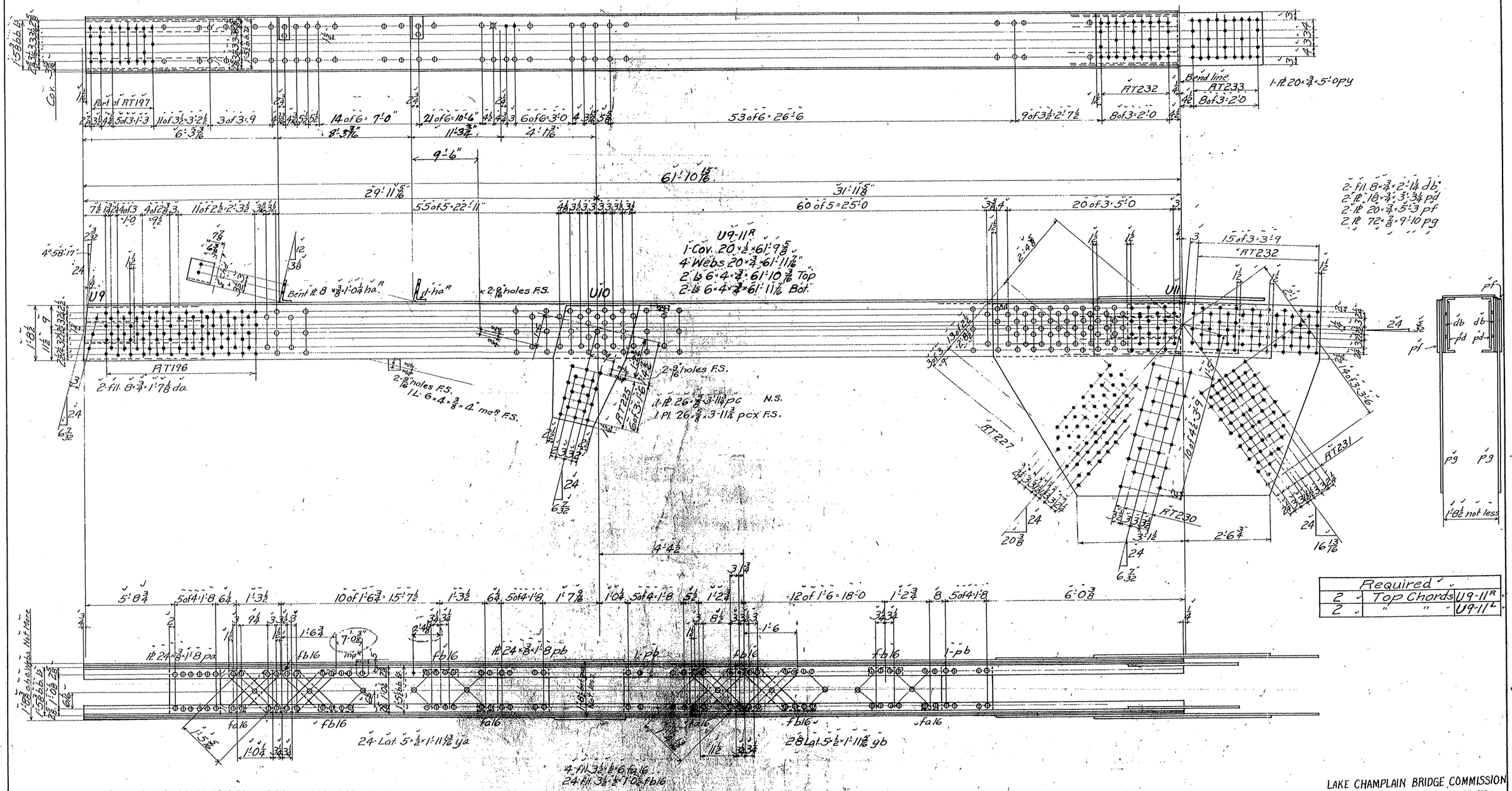
DRAWINGS MADE AT Elmira PLANT
WORK FABRICATED AT Elmira PLANT
IN CHARGE OF R.C. Beebe
DRAW. MADE BY T.G.G. R.A.H. DATE
DRAW. CHECKED BY S.K. DATE 10-18-28

ORDER No. F3132 SHEET NO. 10



Required		
2	Top Chords	U9-11R
2	" "	U9-11L

Hole added and L ma changed. 12/4/28 M

Notes:
Specifications Lake Champlain Bridge Commission.
Rivets ⅞ ϕ
Holes 15/16 ϕ unless noted.
Field connections marked RT to be sub-punched and reamed to a metal templet.
Sheared edges of gussets over ⅝ thick to be planed ¼

REVISED
Changed figures for Railing.
12/17/28

LAKE CHAMPLAIN BRIDGE COMMISSION
NEW YORK --- VERMONT

LAKE CHAMPLAIN BRIDGE
Spans 6-7&8
Top-Chords

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DRAWINGS MADE AT Elmira PLANT.
WORK FABRICATED AT Elmira PLANT.
IN CHARGE OF R.C. Beebe
DRAW. MADE BY ϕ DATE 8-29-28
DRAW. CHECKED BY F.O.H. DATE 10-13-28
ORDER No. F3132
SHEET NO. 16

Bend line

1-Pl 37-½-4-1⅜ hb^R

1-Fil 20-⅞-2-5¾ df

RT 233

4½ 8 of 3-2-0 | 7 of 3½-2-0½ | 5 of 4-1-8 | 45 of 6 = 22-6 | 5 of 4-1-8 | 5½ | 3 of 5-1-3 | 3 of 5-1-3 | 4½ | 5 of 4-1-8 | 6 | 3 | 41 of 6 = 20-6 | 5 of 4-1-8 | 4½ | 12 of 3½-3-6 | 7 of 3-1-9 | 1

RT 239 | RT 239 | 7 of 3-1-9

1-3 11/16 | 1-3 7/16

Cut ab^R

1°-31'-49"

63'-11 3/32" ctrs. working line FIN. one end.

31'-11 17/32 | 31'-11 3/32

3 | 15 of 3-3-9 | 4 17/32 3 of 4 = 1'-0 | 60 of 5-25-0 | 2 2 2 4 3 of 3 4 of 3-1-0 2 2 3 | 58 of 5-24-2 | 3 of 3½ = 10½ | 14 of 4-4-8 | 3½ | 3 | 12 of 3¼-3-3

RT 232 | RT 238

U11 | U12 | U13

1-Cov. 20-⅜-63-11⅛
2 Webs 20-⅛-63-11⅛
2-L 6×4×⅜ 63-11⅜ Top
2-L 6×4×½ 63-10 15/16 Bot
} U11-13^A

aa^R N.S. | bb^R | 2'-0

db | da | dd | dc

2-fil 8-⅜-2-1¼ da
2-fil 13-⅜-2-1¼ db
2-fil 18-½-2-1¼ dc
2-fil 18-⅝-2-1¼ dd

2-Pl 26-⅜-4-0 pa

RT 234 | 6 of 3-1-6

1-Pl 64-¾ 8-9 pf N.S
1-Pl 64-¾-8-9 pd F.S.
1-L 8-6-½-2-3 aa^R
1-L 8-6-½-2-0 ab^R
1-L 3½-3½-½-3-2 ha^R

3 staps rivets in pf only | 3 staps rivets in pf only

RT 235 | RT 236 | RT 237

24 | 19½ | 24 | 24 | 24 | 15 7/16 | 6 1/16

Required	
2	Top Chord - U11-13^R -
2	" - U11-13^L -

4-5 | 5 of 4-1-8 | 5½ | 1-5¼ | 11 of 1-8½ = 18-9½ | 1-5¼ | 5½ | 5 of 4-1-8 | 1-7 17/32 | 1-8 1/16 | 5 of 4-1-8 | 8 | 1-5¼ | 10 of 1-8½-17-1 | 1-5¼ | 8 | 5 of 4-1-8 | 5-8

2 Webs 3-0 c. to c. Webs Not More

1-Pl 24-⅞-1-8 pc 17 | fa 16 | 26 Lat. 5-½-2-2⅝ ya 17 | fa 16 | 1-pc 17 | fa 16 | 24-ya 17 | fa 16 | 1-pc 17 | 1-8 bet. cs. Not Less

fb 16 | fb 16 | fb 16 | fb 16 | fb 16 | fb 16 | fb 16 | fb 16 | pf | pd

1-7 13/16 | 1-2 | 3¼ 3¼

4-fills 3½-½-6 fa 16
23 fills 3½-½-1 0½ fb 16

ha^R

Notes:-
Specifications Lake Champlain Bridge Commission
Rivets ⅞"ø
Holes ⅞"ø
Field connection marked RT are to be sub-punched and reamed to a metal templet.
Sheared edges of gussets over ⅝" to be planed ¼

Bend line

Sheet U11 Plate 9-17

LAKE CHAMPLAIN BRIDGE COMMISSION
NEW YORK --- VERMONT

LAKE CHAMPLAIN BRIDGE
SPAN 7
TOP CHORDS
MMM ED O

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DRAWINGS MADE AT Elmira PLANT
WORK FABRICATED AT Elmira PLANT
IN CHARGE OF R.C. Beebe
DRAW. MADE BY. [illegible] DATE 8-28-28
DRAW. CHECKED BY. [illegible] DATE 10-13-28

ORDER No. F3132
SHEET NO. 17

P113R

Bent Pl. 38 × ½ × 3'-7½"

U13-14

1-Cov. 20 × ⅞ × 31'-7 23/32"
2-Webs 20 × 5/16 × 31'-7 23/32"
2-Ls 6 × 4 × ⅞ × 31'-7 23/32" Top
2-Ls 6 × 4 × ½ × 31'-6 15/16" Bot.

31'-7 7/32" Fin. (on working line.)
60 of 5 = 25'-0"

2-Pl. 45 × ⅝ × 4'-2" pa

24 Lat. 5 × ½ × 2'-2 5/16" ya 17

2-fil. 3½ × ½ × 6 fa 16
11-fil. 3½ × ½ × 1'-0½ fb 16

REQUIRED		
4	Top Chord	U13-14
2	Splice Plates	P113R
2	"	P113L

Notes:
Specifications Lake Champlain Bridge Commission.
Rivets ⅞" diam.
Holes 15/16"
Field connections marked RT are to be sub-punched & reamed to a metal templet.

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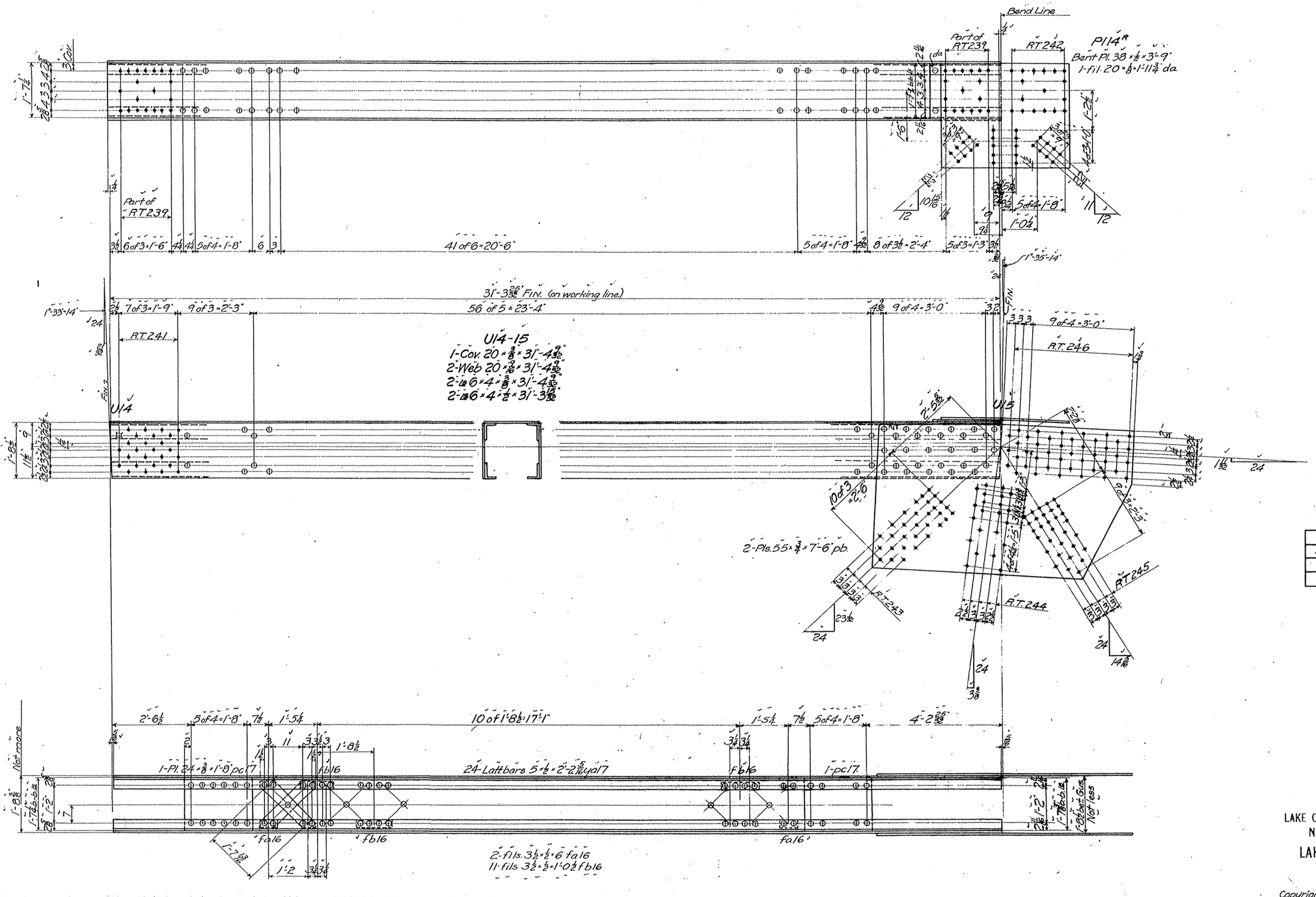
LAKE CHAMPLAIN BRIDGE COMMISSION
NEW YORK --- VERMONT
LAKE CHAMPLAIN BRIDGE
TOP CHORDS & Pls.

DRAWINGS MADE AT Elmira PLANT.
WORK FABRICATED AT Elmira PLANT.
IN CHARGE OF R.C. Beebe
DRAW. MADE BY P.S. DATE 9-6-28
DRAW. CHECKED BY T.O.H. DATE 10-1-28
ORDER No. F3132 SHEET No. 18



REQUIRED		
4	Top Chords	U14-15
2	Splice Plates	P114R
2	" "	P114L

Notes:
Specifications - Lake Champlain Bridge Commission.
Rivets - ⅞"
Holes - 15/16"
Field connections marked R.T. subpunched and reamed to a metal templet.
Sheared edges of gussets over ⅜" thick to be planed ¼".

LAKE CHAMPLAIN BRIDGE COMMISSION
NEW YORK --- VERMONT

LAKE CHAMPLAIN BRIDGE
Span # 7.
Top Chords

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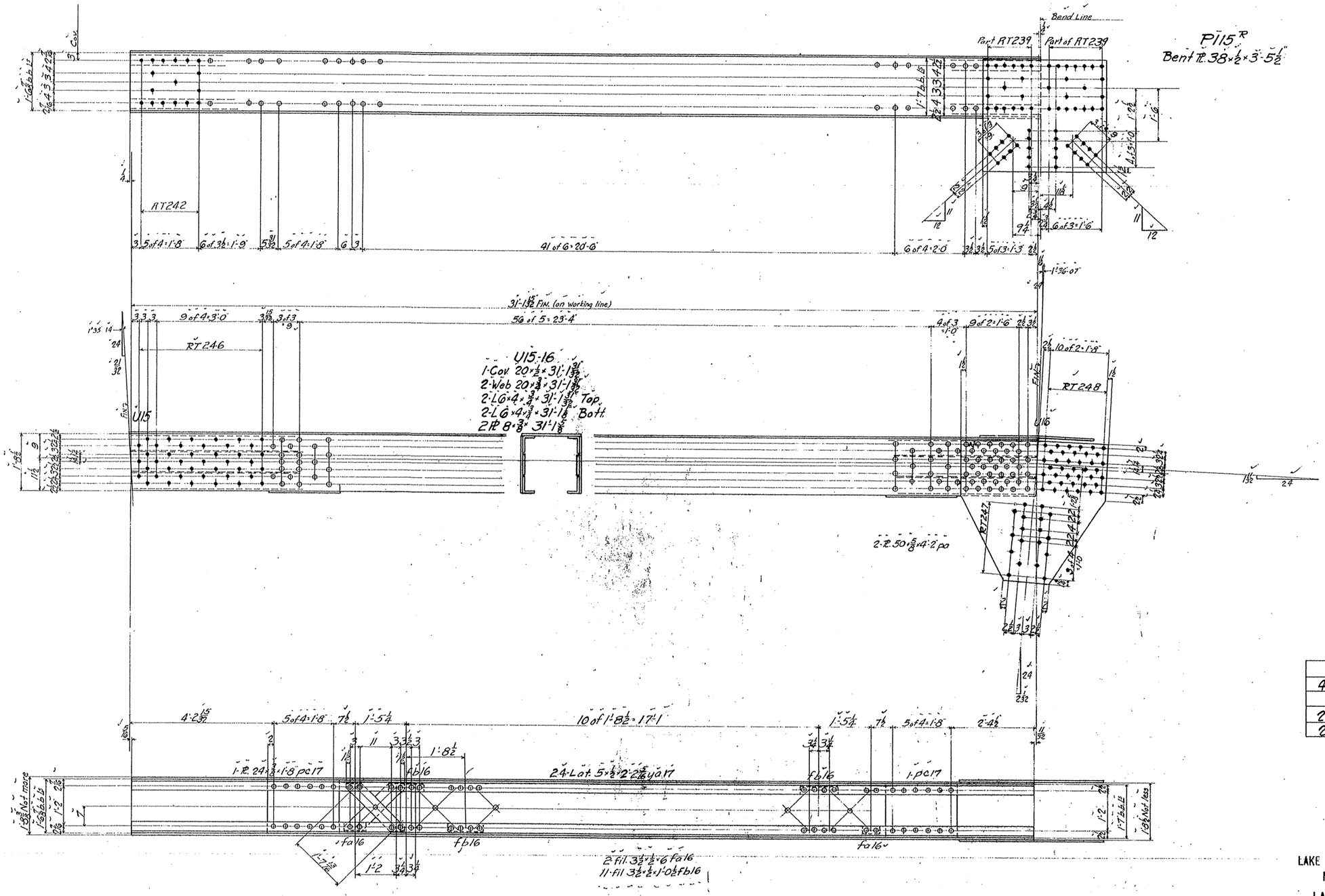
DRAWINGS MADE AT Elmira PLANT.
WORK FABRICATED AT Elmira PLANT.
IN CHARGE OF Beebe
DRAW. MADE BY CP DATE 9-7-28
DRAW. CHECKED BY [illegible] DATE 10-15-28

ORDER No. F3132 | SHEET NO. 19



REQUIRED		
4	Top Chord	U15-16
2	Splice Plates	P115R
2	" "	P115L

LAKE CHAMPLAIN BRIDGE COMMISSION
NEW YORK --- VERMONT

LAKE CHAMPLAIN BRIDGE

TOP CHORD, SPLICE PLATES

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DRAWINGS MADE AT Elmira PLANT.
WORK FABRICATED AT Elmira PLANT.
IN CHARGE OF P.C. Beebe
DRAW. MADE BY P. Rh. DATE 9-7-28
DRAW. CHECKED BY F.O.H. DATE 10-15-28

ORDER No. F3132 | SHEET NO. 20

NOTES:
Specifications: LAKE CHAMPLAIN BRIDGE COMMISSION.
Rivets ⅞"
Holes 15/16"
Field connections marked RT are to be sub-punched and reamed to a metal templet.

Shop Bill Page S-20

U16-17A - same as U16-17 except as shown at U17

U16-17
1-Cov. 20×½×31'-0 27/32
2-Web 20×¾×31'-0 27/32
2-L 6×4×¾×31'-0 27/32 Top
2-L 6×4×¾×31'-0 Bot.
2-PL 8×⅜×31'-0½"

Required		
2	Top Chords	U16-17
2	" "	U16-17A
2	Splice Plates	P116

Notes:-
Specifications Lake Champlain Bridge Commission.
Rivets ⅞"ø
Holes 1 1/16"ø
Field connections marked AT are to be sub-punched and reamed to a metal templet.
Sheared edges of gussets over ⅜" thick to be planed ½".

Shop Bill Page S-21

LAKE CHAMPLAIN BRIDGE COMMISSION
NEW YORK --- VERMONT

LAKE CHAMPLAIN BRIDGE
SPAN 7
TOP CHORDS

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DRAWINGS, MADE AT Elmira PLANT.
WORK FABRICATED AT Elmira PLANT.
IN CHARGE OF RC. Beebe
DRAW. MADE BY. P DATE 9-6-28
DRAW. CHECKED BY. TMH DATE 10-15-28

ORDER No. F3132 SHEET NO. 21

L10-11R

2-Ls 6×4×$\frac{3}{4}$×36'-5$\frac{1}{2}$"
2-" 6×4×$\frac{3}{4}$×36'-4$\frac{1}{4}$"
2-Webs 24×$\frac{3}{4}$×36'-5$\frac{1}{2}$"
2-" 24×$\frac{13}{16}$×36'-5$\frac{1}{2}$"

1-Fl. 24×$\frac{1}{2}$×1'-5" pa
34-bars 5×$\frac{1}{2}$×2'-1$\frac{7}{16}$" c.to.c. ya 10
1-Fl. 24×$\frac{1}{2}$×1'-5" ph 10
2-Fils. 3$\frac{1}{2}$×$\frac{1}{2}$×6" fa16
16-Fils. 3$\frac{1}{2}$×$\frac{1}{2}$×1'-0$\frac{1}{2}$" fb16
15 of 1'-7" = 23'-9"
53 of 6" = 26'-6"
38'-08" w.p. to w.p. FIN. ONE END.
18 of 1'-7" = 28'-6"
40-ya 10
2-fa16
19-fb16
Not more
bet gus. (Not less)
6 bb of Ls
0 c.to.c. webs
L10
L11
RT 224
19 of 3" = 4'-9"
RT 278
RT 279
RT 281
4 of 4$\frac{1}{2}$" = 1'-6"
8 of 3" = 2'-0"
5 of 3" = 1'-3"
7 of 3" = 1'-9"
Bend Line for ha
Bend Line for hb R
1-Bent R. 17×2×3'-3" ha
2-Fl. 58$\frac{1}{2}$×$\frac{3}{4}$×5'-1" pc
2-Fl. 26×$\frac{1}{2}$×4'-4$\frac{1}{2}$" pd
1-L 6×4×$\frac{1}{2}$×1'-10$\frac{1}{2}$" aa R
1-Bent L 6×6×$\frac{1}{2}$×4'-2$\frac{1}{2}$" hb R
A.S. only
N.S. only
FIN.

Working Points at L11

REQUIRED		
2	Bot. Chords	L10-11 R
2	" "	L10-11 L

Working points at L11 shown in sketch
11/1 2-1688

NOTES:—
Specifications: Lake Champlain Bridge Commission.
Rivets $\frac{7}{8}$" diam.
Holes $\frac{15}{16}$"
Field connections marked RT to be sub-punched and reamed to a metal templet.
Sheared edges of gussets over $\frac{5}{8}$" thick, planed $\frac{1}{4}$"

Shop Bill Page 5-88

LAKE CHAMPLAIN BRIDGE COMMISSION
NEW YORK --- VERMONT
LAKE CHAMPLAIN BRIDGE
BOTTOM CHORDS
NHM 23.0
Copyright AMERICAN BRIDGE COMPANY. 1928
DRAWINGS MADE AT Elmira PLANT.
WORK FABRICATED AT Elmira PLANT.
IN CHARGE OF R.C. Beebe
DRAW. MADE BY LJG-GES DATE 9-8-28
DRAW. CHECKED BY F.O.H. DATE 10-25-28
ORDER No. F 3132
SHEET No. 38

1-38½ a to a (Not More)
1-58 bb 15
1-10⅜ 28
1'-0"
1'-6½"
30 Lattice bars 5×½×2'-0⅞" a to a ya
1-fl. 24×⅜×1'-5½" pc
3'-0"
2'-10⅝"
15 of 1'-6½" = 23'-1⅛"
2-fa 16
14-fb 16
1-pl. 24×⅜×1'-5½" pd
5'-0⅛"
4'-11½"
1-10⅜ 28
1-54 bb 15
1-62 bet. Gusset (Not Less)
A=10°-20"
24
1¾
FIN Z
2'-0⅝"
1'-0⅜"
L11
RT 278
2-fa 16
4-fb 16
3 of 3=9⅜"
4 of 3=1'-0⅜"
54 of 6 = 27'-0"
34'-9⅞" on working line FIN.
20 of 1'-6½" = 30'-10"
RT 279
3⅜
1'-0"
5 of 3=1'-3⅛"
fb 16
fa 16
40 ya
2-fils-3½×½×6-fa 16
19-fils-3½×½×1'-0½"-fb 16
L11-12R
4-Webs-24×11/16×34'-11 9/16"
2-Ls 6×4×¾×34'-11 9/16"
2-Ls 6×4×¾×34'-8 11/16"
10
24
2 3 3 3 3 3 24
A=51°-54"
21/16
24
12 3/16
24
RT 276
FIN Z
2-Guss. 83×¾×11'-1½" (da N.S. only)
2-Fils. 30×⅝×5'-11" pb
13 of 3=3'-3"
RT 277
A
B
da R N. S. only
da R N. S. only
1-fil-12×⅝×1'-5" da N.S. only
holes N.S. only
ha R
L12
RT 274
RT 275
19 of 2½ = 3'-11½"
10 of 3 = 2'-6"
1 of 3½, 6 of 3½, 1-9
3½
24
12 16
24
4⅛
1'-6"
2'-8"
8 of 2¾ = 1'-10½"
2½
8 of 3 = 2'-0"
Bend Line N.S.
Bend down
RT 280
RT 272
1-Bent PL - 47×¾×4'-6⅜" ha R
11 of 2½ = 1'-10½"
1-62 bet. Guss. (Not Less)
1-54 bb 15
1-10⅜ 28
24
10
12
Φ of Truss.
1-L 6×4×⅝×2'-10½" da R
1-L 6×6×⅝×2'-0" ab R
9 of 3 = 2'-3"
Sec. A
Sec. B
6 of 3 = 1'-6"
1'-4"

REQUIRED		
2	Bottom Chords	L11-12R
2	" "	L11-12L

NOTE.-
Specifications Lake Champlain Bridge Comm.
Rivets ⅞ diam.
Holes 15/16 diam.
Field connections marked RT sub-punched and reamed to a metal templet.
Sheared edges of gussets over ⅝" thick planed ¼"
Shop B-11 Page 5-39

LAKE CHAMPLAIN BRIDGE COMMISSION
NEW YORK --- VERMONT
LAKE CHAMPLAIN BRIDGE
BOTTOM CHORDS
KNH 7 G

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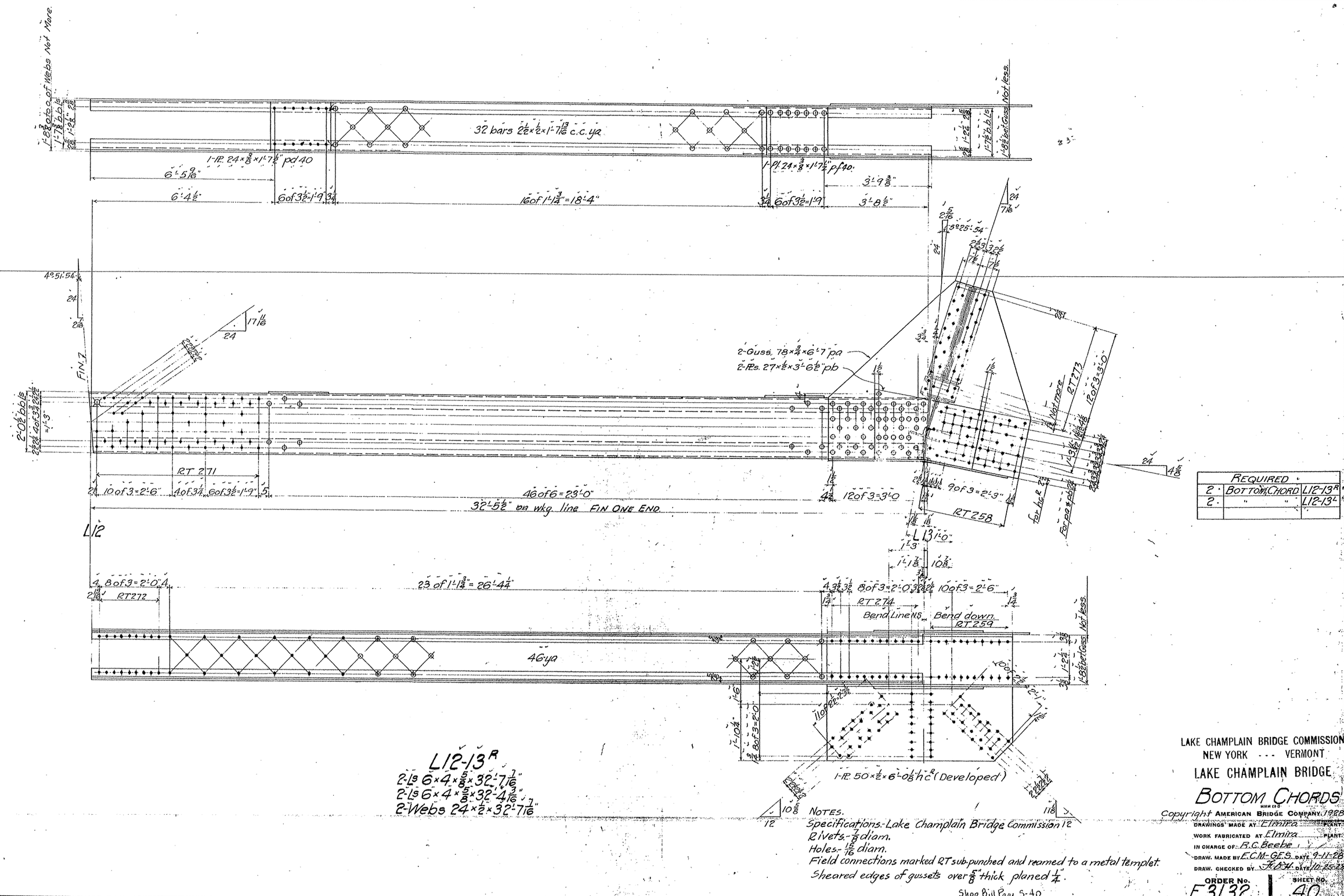
DRAWINGS MADE AT Elmira PLANT.
WORK FABRICATED AT Elmira PLANT.
IN CHARGE OF R.C. Beebe
DRAW. MADE BY E.C.M.-G.E.S. DATE 9-12-28
DRAW. CHECKED BY F.O.H. DATE 10-25-28
ORDER No. F3132
SHEET No. 39



REQUIRED		
2	BOTTOM CHORD	L12-13R
2	" "	L12-13L

L12-13R
2-Ls 6×4×⅝×32'-7 7/16"
2-Ls 6×4×⅝×32'-4 3/16"
2-Webs 24×½×32'-7 7/16"

NOTES.
Specifications.- Lake Champlain Bridge Commission
Rivets.- ⅞ diam.
Holes.- 15/16 diam.
Field connections marked RT sub-punched and reamed to a metal templet.
Sheared edges of gussets over ⅝" thick planed ¼".

Shop Bill Page S-40

LAKE CHAMPLAIN BRIDGE COMMISSION
NEW YORK --- VERMONT
LAKE CHAMPLAIN BRIDGE
BOTTOM CHORDS

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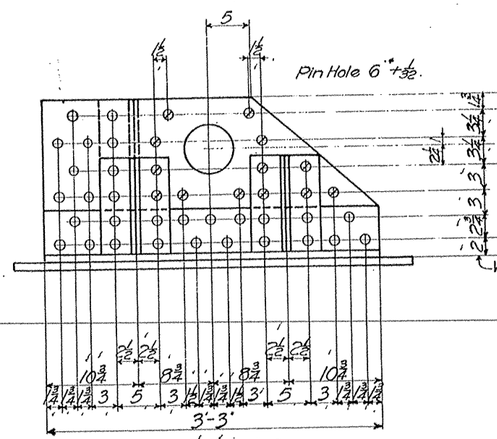
DRAWINGS MADE AT Elmira PLANT
WORK FABRICATED AT Elmira PLANT
IN CHARGE OF R.C. Beebe
DRAW. MADE BY E.C.M.-G.E.S. DATE 9-11-28
DRAW. CHECKED BY F.B.H. DATE 10-25-28
ORDER No. F3132 SHEET NO. 40

RS4

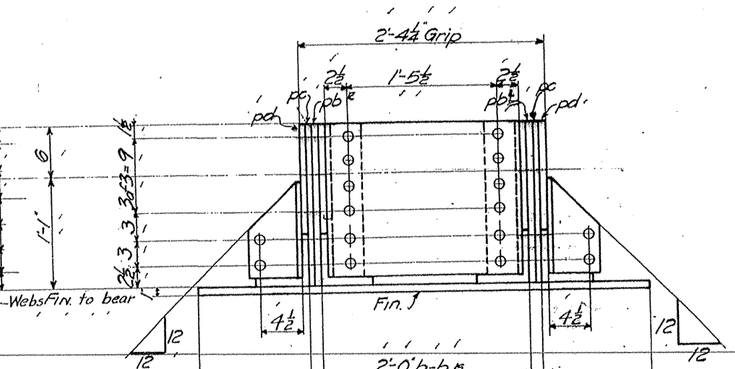
Base Pl. 46 × 1" × 4'-4" pa. Planed from 1/8
2-Pl. 39 × 3/8 × 1'-7" pb^L Fin.
2-Pl. 39 × 5/8 × 1'-7" pc. Fin.
2-Fil. 13 × 3/4 × 3'-3" pd.
2-Fil. 4 × 3/4 × 1'-1" fa.
2 L 6 × 6 × 3/4 × 3'-3" aa.
2 L 6 × 6 × 3/4 × 3'-3" ab.
8-L 6 × 4 × 1/2 × 11 1/8 ka^L Fin.
2 L 4 × 4 × 1/2 × 1'-6 1/4 kb^L Fin.
1-Pl. 18 × 1/2 × 1'-9 1/2 pf.

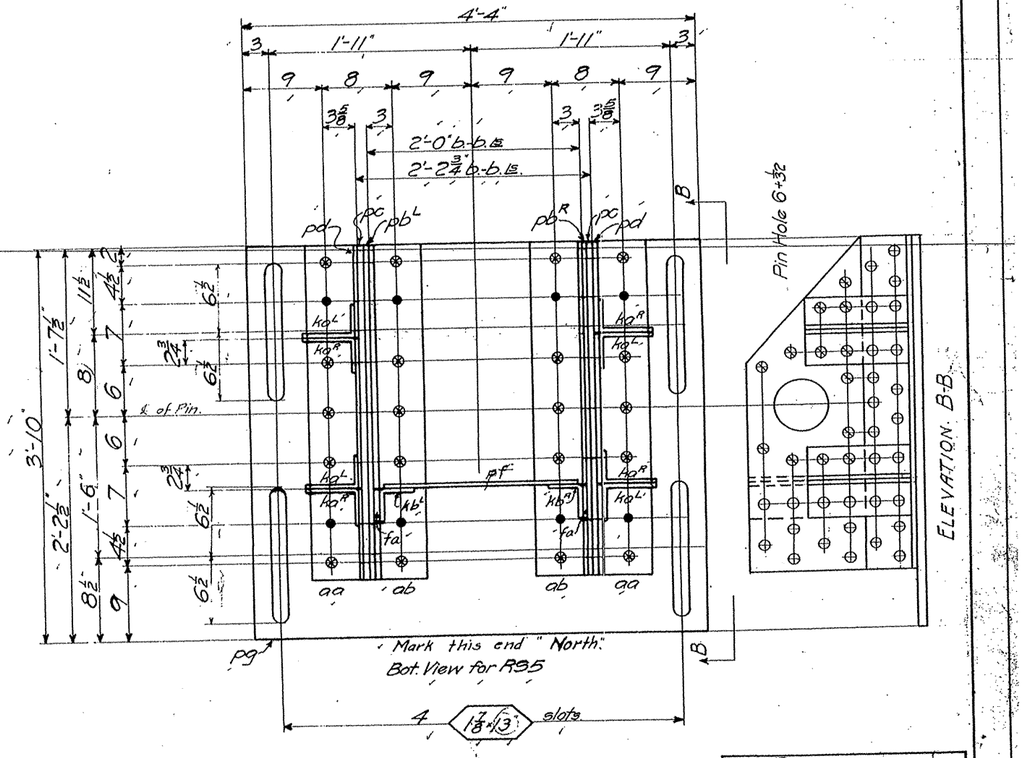
RS5

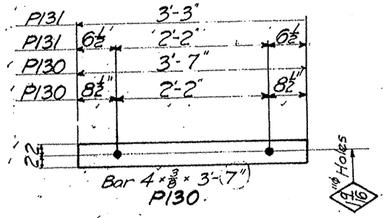
Base Pl. 46 × 1" × 4'-4" pg Planed from 1/8
2-pb^R
2-pc.
2-pd.
2-fa
2-aa.
2-ab
8-ka^L
2-kb^L
1-pf.



ELEVATION A-A







REQUIRED		
2	Exp. Shoes	RS4
2	"	RS5
4	Plates	P130
4	"	P131

Notes:
Specifications Lake Champlain Bridge Commission.
Holes 13/16" dia. unless noted.
Rivets 7/8" dia.

Length of P130 and slots in RS5
12/3/28 M

Shop Bill - 541

LAKE CHAMPLAIN BRIDGE COMMISSION
NEW YORK --- VERMONT

LAKE CHAMPLAIN BRIDGE

Expansion Shoes.

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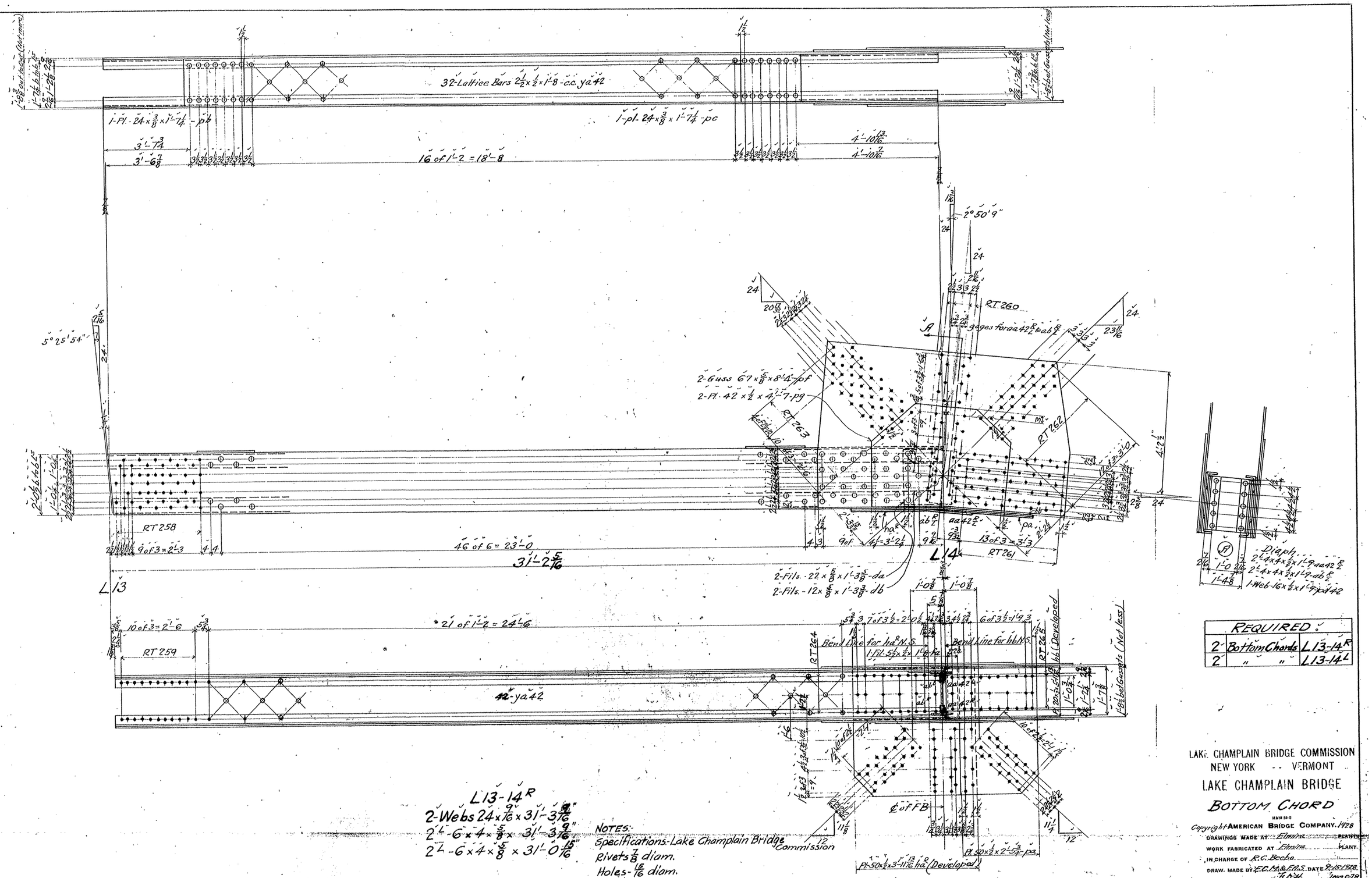
DRAWINGS MADE AT Elmira PLANT.
WORK FABRICATED AT Elmira PLANT.
IN CHARGE OF Beebe
DRAW. MADE BY C.R. DATE 7-13-29.
DRAW. CHECKED BY S.K. DATE 10-27-29.
ORDER No. F3132
SHEET NO. 41



REQUIRED		
2	Bottom Chords	L13-14R
2	" "	L13-14L

NOTES:-
Specifications-Lake Champlain Bridge Commission
Rivets ⅞ diam.
Holes - 15/16 diam.
Field Connections marked RT are to be sub-punched and reamed to a metal templet.

Snop Bill Page S-42

LAKE CHAMPLAIN BRIDGE COMMISSION
NEW YORK -- VERMONT
LAKE CHAMPLAIN BRIDGE
BOTTOM CHORD

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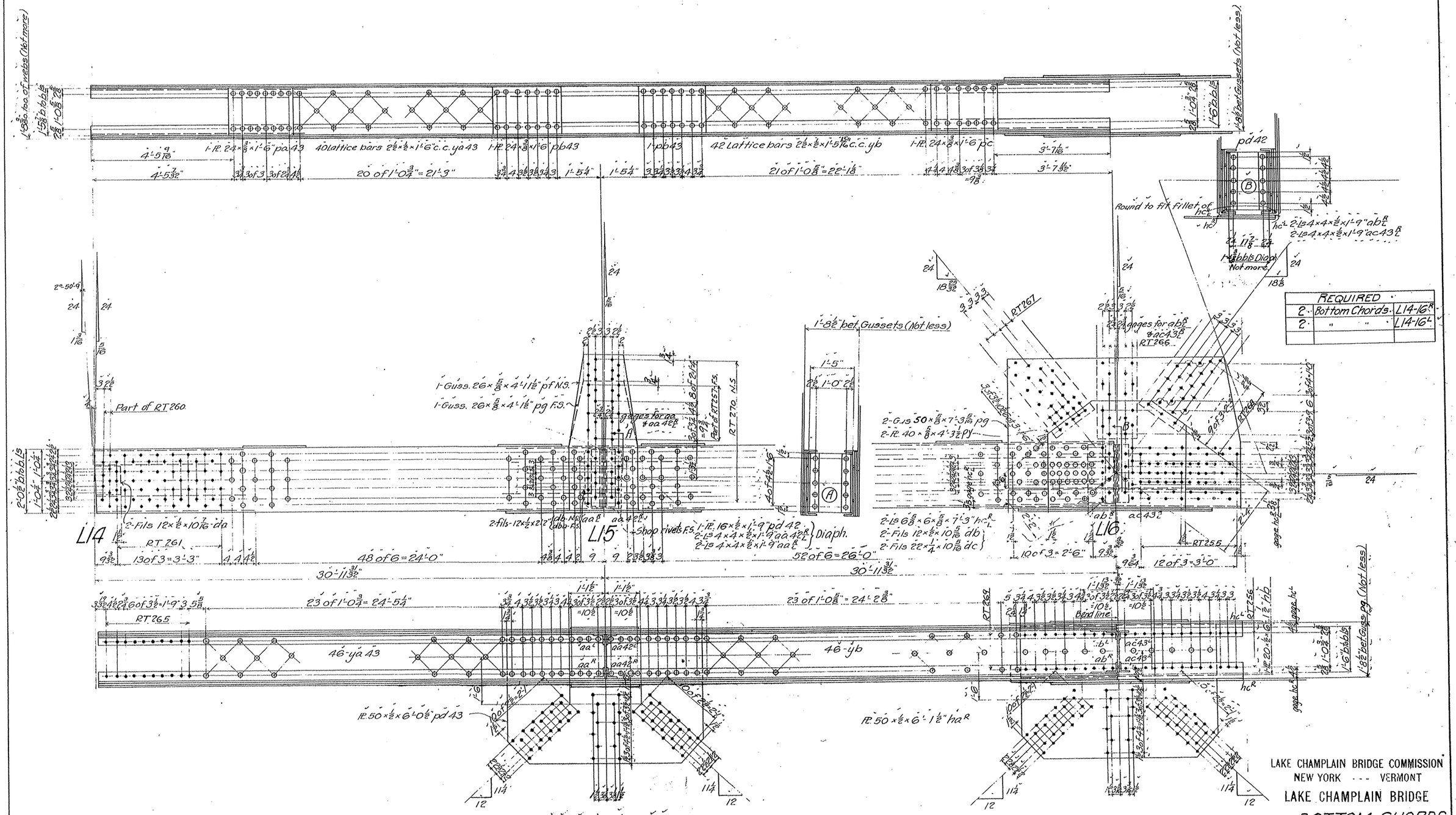
DRAWINGS MADE AT Elmira PLANT
WORK FABRICATED AT Elmira PLANT
IN CHARGE OF R.C. Beebe
DRAW. MADE BY E.C.M. & F.A.S. DATE 9-15-1928
DRAW. CHECKED BY F.D.H. DATE 10-25-28

ORDER No. F3132 | SHEET NO. 42



REQUIRED		
2	Bottom Chords	L14-16 R
2	" "	L14-16 L

L14-16 R { 2-Ls 6×4×½×62'-0"
2-Ls 6×4×½×61'-11⅛"
4-Webs 24×⅝×62'-0"

NOTES:-
Specifications:- Lake Champlain Bridge Commission.
Rivets - ⅞ diam.
Holes - 15/16 diam.
Field connections marked RT sub-punched, and reamed to a metal templet.

Width of pg changed from 58 to 50.

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LAKE CHAMPLAIN BRIDGE COMMISSION
NEW YORK --- VERMONT

LAKE CHAMPLAIN BRIDGE

BOTTOM CHORDS

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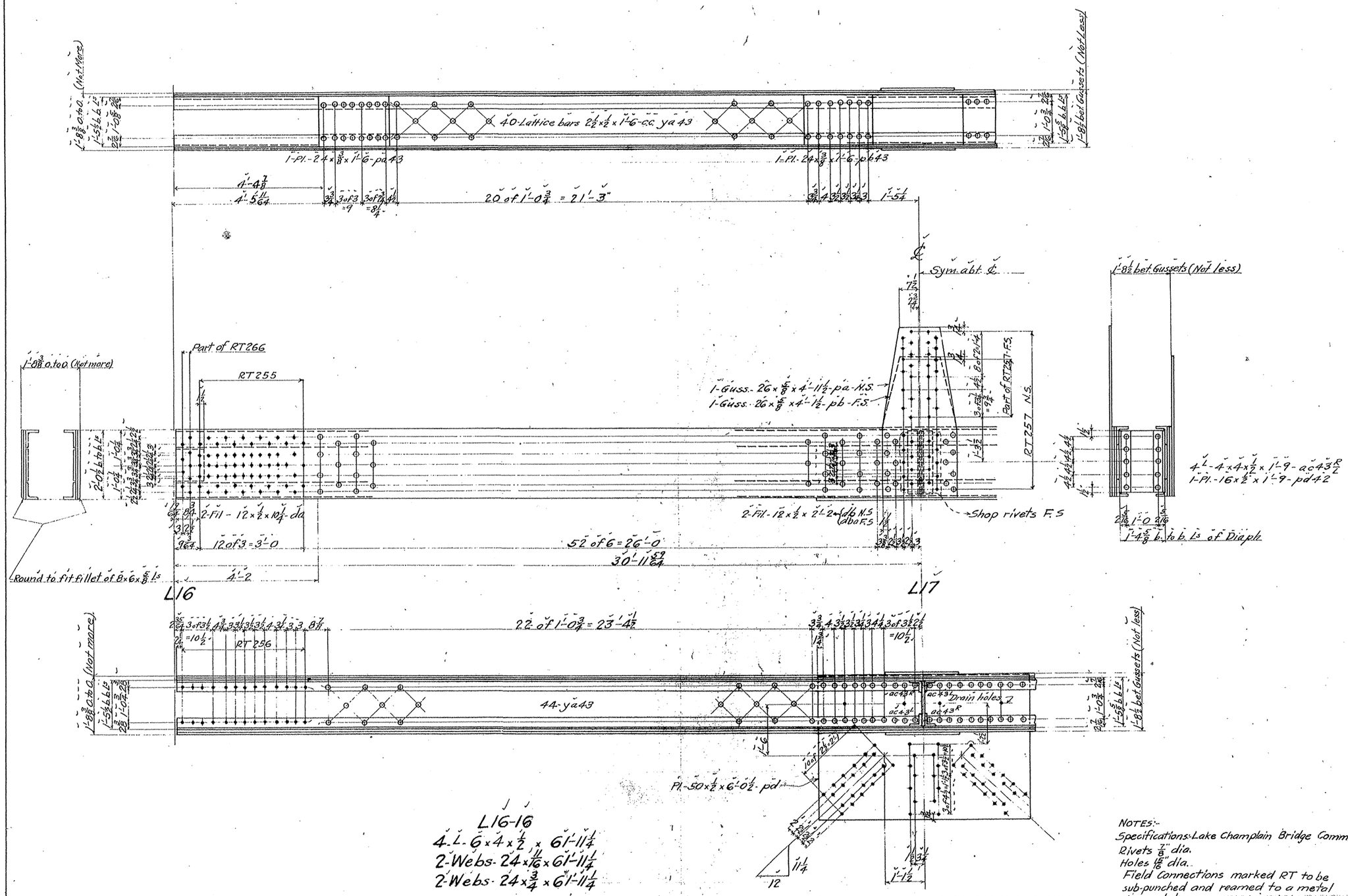
DRAWINGS MADE AT Elmira PLANT.
WORK FABRICATED AT Elmira PLANT.
IN CHARGE OF R. C. Beebe
DRAW. MADE BY ECM-GES DATE 9-18-28
DRAW. CHECKED BY F.O.H. DATE 10-25-28

ORDER No. F3132 | SHEET NO. 43



REQUIRED		
2	BOTTOM CHORDS	L16-16

L16-16
4-L-6×4×½ × 61'-11¼
2-Webs-24×11/16×61'-11¼
2-Webs-24×¾×61'-11¼

NOTES:-
Specifications-Lake Champlain Bridge Commission.
Rivets ⅞" dia.
Holes 15/16" dia.
Field Connections marked RT to be sub-punched and reamed to a metal templet.

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BOTTOM CHORDS

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IN CHARGE OF R.C. Beebe
DRAW. MADE BY E.C.M. & F.A.S. DATE 9-18-1928
DRAW. CHECKED BY F.O.H. DATE 10-23-28

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