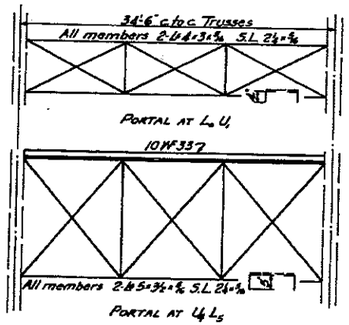
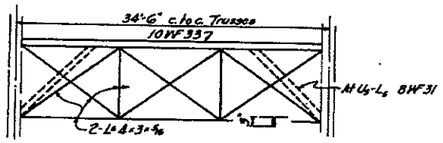
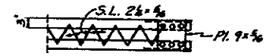




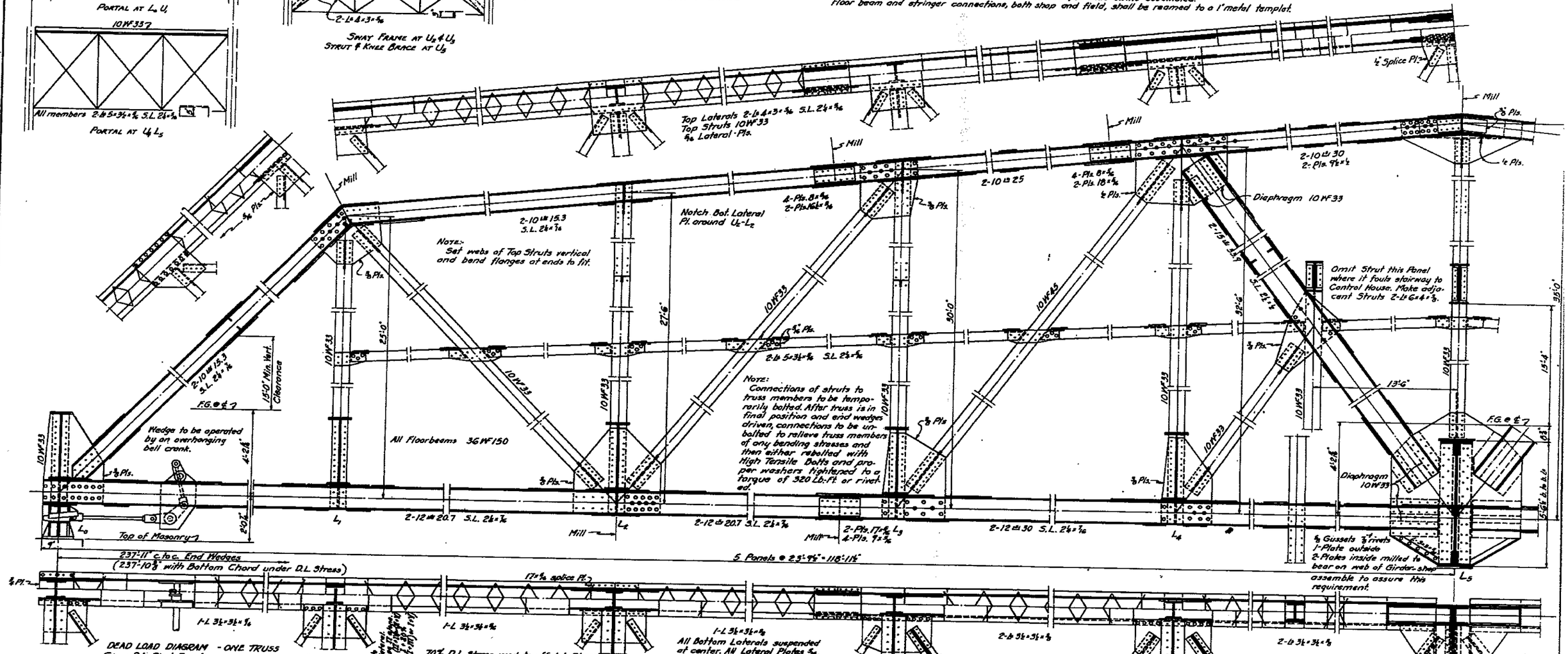
Sway Frame at U2 & U3
Strut & Knee Brace at U3



Detail of Lateral

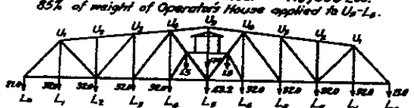
Notes:-
Design Data: AASHO Specifications for Bridges 1949 with revisions thru 1950.
H15-S12-44 Loading f_s = 18,000 #/□" - see additional notes on Sheet No. 19.
3/4" rivets, 13/16" holes, except in Pivot Girder and connections at L5 to have 7/8" rivets and 15/16" holes.
Rivet holes in all main member splices shall be sub-punched, the connecting members shop assembled in proper position, and the holes reamed full size while assembled.
Floor beam and stringer connections, both shop and field, shall be reamed to a 1" metal templet.

FED. RD. DIV. NO.	STATE	COUNTY	S.C. DOCK NO.	ROUTE NO.	SHEET NO.	TOTAL SHEETS
3	S.C. GA.	JASPER CHATHAM	27.251.2	17	17	29



DEAD LOAD DIAGRAM - ONE TRUSS

Gross D.L. Pivot Reaction	381.2 K
Machinery & Supports and center panel	63.2 K
Net D.L. center reaction to Truss	318.0 K
Approx. wt. of structural steel = 413,000 Lbs.	
85% of weight of Operator's House applied to U4-L4.	



20 K. Machinery and Supports.

Wind Stresses are for panel load and should be added to live and dead load stresses. Condition 2 combines with Cond. 1 to form Condition 3.

70% D.L. Stress used to off L.L. Stress

STRESSES IN KIPS

+ indicates Tension — - indicates Compression

Member	Dead Load: Case I Wedges Free	Dead Load: Case II Brake Closed	Live Load: Case III One Arm Surplus Sp.	Live Load: Case IV Cont. Span	Live Load: Case V Cont. Sp. No Neg. R.	Combined: Case I + 20%	Case I + III	Case I + V	Case II + IV	Case II + V	Max. Tension	Max. Comp.
L0L2	-20.0	-11.5	+52.6	-6.7 / +28.0	+57.4	-24.0	+38.6	+23.4	-18.2 / +54.7	+27.3	39.9	24.0
L2L4	-126.1	-104.9	+64.1	-16.7 / +69.2	-13.4 / +82.7	-151.3	-62.0	-139.5	-121.8	-118.3		151.3
L4L6	-202.1	-176.0	+40.4	-20.5 / +88.4	-18.2 / +93.7	-242.5	-161.7	-220.7	-196.5	-194.6		242.5
L6U5	+29.0	+16.7	-75.9	-7.9 / +9.8	-54.6	+34.8	-55.6	-36.1	-83.1 / +2.5	-42.7	34.8	88.1
U1U2	+64.4	+48.9	-67.5	-19.0 / +21.2	-67.5 / +2.5	+77.3	-22.4	-7.8 / +17.8	-7.8 / +61.1	-13.5 / +52.5	77.3	24.8
U3U4	+126.7	+105.6	-64.5	-41.6 / +18.8	-36.1 / +12.5	+152.3	+62.4	+140.6	+122.6	+119.1	152.3	
U4U5	+291.0	+260.6	0	+57.5	+21.8	+349.2	+291.0	+312.8	+278.1	+282.6	349.2	
U1L2	-63.9	-53.9	-16.7 / +28.8	-32.1 / +32.5	-27.5 / +31.3	-76.7	-78.6	-86.0	-76.0	-76.0		86.0
L2U3	+77.9	+90.7	-28.8 / +32.5	-7.8 / +32.5	-7.8 / +31.3	+117.9	+139.8	+141.0	+136.1	+131.8	141.0	
L3U3	+128.6	+120.4	-18.6	+64.0	+59.2	+154.3	+186.2	+187.8	+184.6	+179.6	187.8	
U3L4	-147.0	-139.9	-68.3	-73.2	-72.8	-176.4	-215.3	-219.8	-213.1	-212.7		219.8
U4L4	+32.0	+32.0	+51.5	+51.5	+41.6	+38.4	+83.5	+73.6	+83.5	+41.6	83.5	
U5L4	-71.7	-63.0	-28.7 / +18.2	-32.1 / +13.6	-27.5 / +16.7	-86.0	-100.4	-101.3	-97.7	-94.6		101.3
U5L6	-77.8	-71.4	0	-6.4	-6.4	-93.4	-77.8	-83.2	-79.8	-79.8		93.4
End R	0	8.9	70.4	69.0	59.7	0	70.4	59.7	77.9	68.8		
Mid. R	329.3	311.5	70.4	104.4	104.4	395.2	399.7	433.7	415.9	415.9		

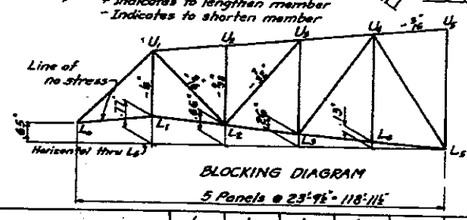
Temperature Reaction Top Chord 20° warmer than Bottom Chord = 9.4 K

WIND STRESSES IN KIPS

Component	Wind Load	Stress in Lateral: L0L2	L2L4	L4L6	L6L4	L4L2	L2L0	Stress in Chord: L2L4	L4L6	L6L5	L5L4
Wedges Driven A Cont. Span	50% on R. Exp. Area. Panel Load = 147 K	+30.8	+12.7	+10.8	+27.0	+47.0	-16.8	-25.4 / +18.0	-25.4 / +22.2	-22.2 / +8.5	-8.5 / +31.8
Wedges Driven B Cont. Span	50% on R. Exp. Area. Panel Load = 137 K	+28.7	+11.8	+10.0	+27.0	+43.9	-16.8	-23.7 / +16.8	-23.7 / +20.7	-20.7 / +7.9	-7.9 / +29.6
Wedges Free C	15% on R. Exp. Area. Panel Load = 4.4 K	+2.7	+1.1	+1.0	+1.0	+4.4	-1.6	-6.3 / +1.6	-14.8 / +6.3	-25.4 / +14.8	-39.6 / +25.4
Wedges Free D	50% on R. Exp. Area. Panel Load = 137 K	+8.4	+23.2	+22.3	+37.2	+76.0	-5.0	-12.6 / +5.0	-44.4 / +19.6	-79.0 / +44.4	-112.4 / +79.0

Rev.			
Guard	M.F.L.	C.L.H.	6/52
Tr.	M.H.L.	C.L.K.	10/52
Dr.	M.F.L.	C.L.H.	10/52
Des.	M.F.L.	C.L.H.	10/52
	By	Chkd.	Date

+ Indicates to lengthen member
- Indicates to shorten member



BLOCKING DIAGRAM

5 Panels @ 23'-9 5/8" = 118'-11 1/8"

	L0	L1	L2	L3	L4	L5
D.L. deflection	-2.45"	-1.91"	-1.32"	-.66"	-.23"	0
Wedge uplift (8.9 Kips)	+.36	+.24	+.14	+.06	+.02	0
Net deflection	-2.09	-1.67	-1.18	-.60	-.21	0
Upward camber caused by wedges & seats members	+.65	+.77	+.66	+.26	+.13	0
Resulting deflection	-1.44	-.90	-.52	-.34	-.08	0
Vertical Curve ordinate	1.41	.91	.51	.23	.06	0
F.G. Elevations - theoretical	16.872	16.918	16.949	16.964	16.986	16.992
F.G. Elevations - Plan	16.875	16.917	16.950	16.974	16.988	16.992

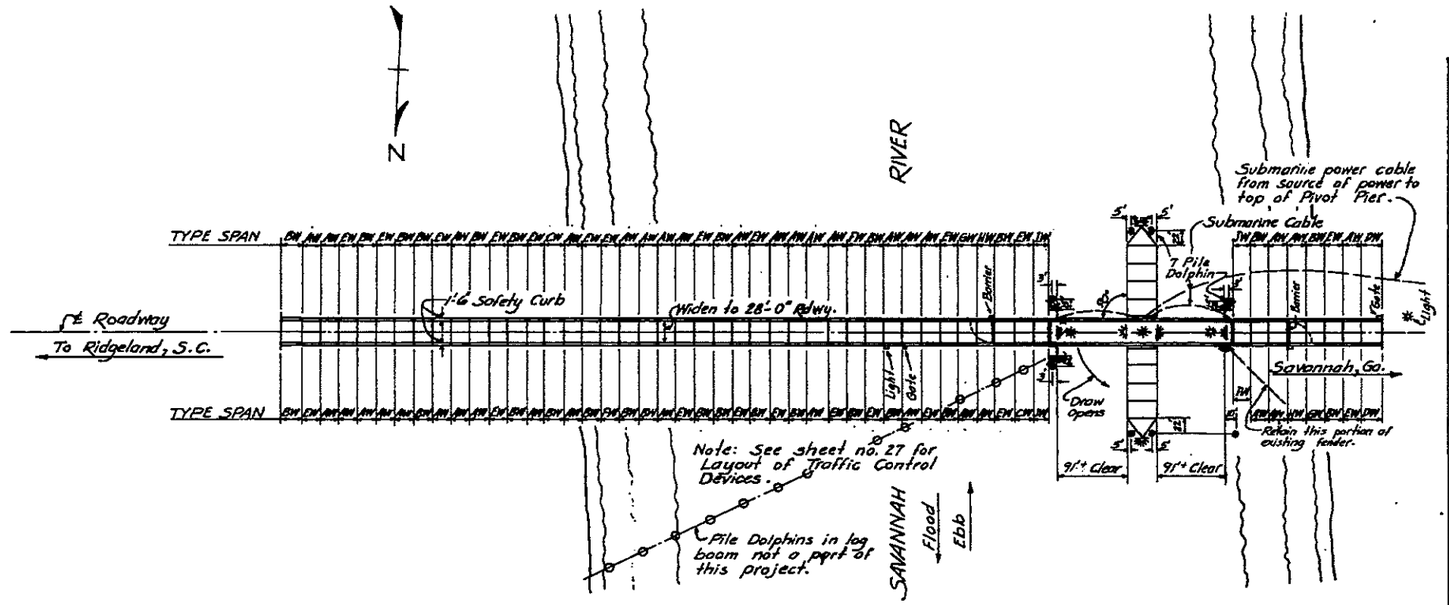
@ ℄ Roadway

S. C. STATE HIGHWAY DEPARTMENT
COLUMBIA

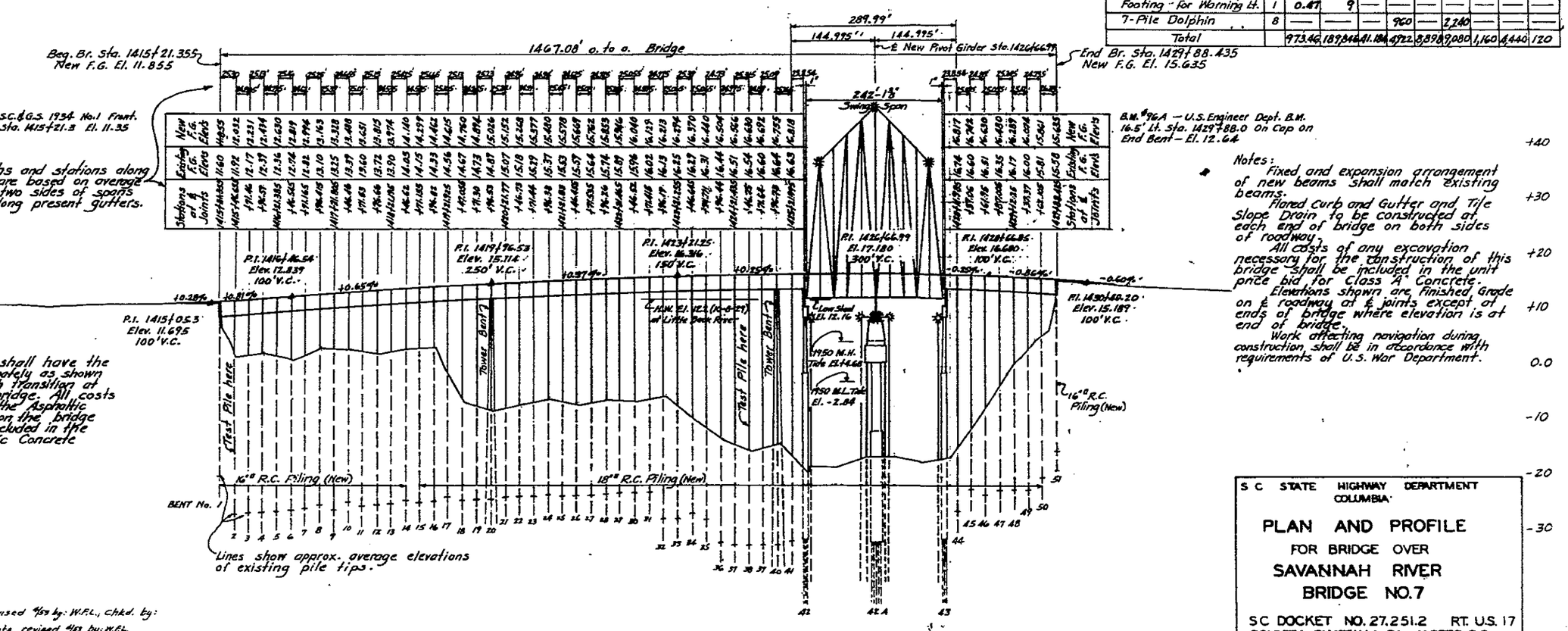
TRUSS DETAILS
237'-11" SWING SPAN
FOR BRIDGE OVER
SAVANNAH RIVER
BRIDGE NO. 7

DOCKET NO. 27.251.2 — ROUTE NO. U.S. 17
COUNTY JASPER-S.C. CHATHAM-GA — DATE: OCT. 1952

Chatham-Jasper 27.251.2 U.S. 17 4 29



SUMMARY OF ESTIMATED QUANTITIES~CONTR. 1										
(See title sheet for Contr. 2 and balance of Contr. 1 Items.)	No.	Class "A" Concrete C.Y.	Reinf. Steel Lbs.	Creo. Struct. Timber M.B.M.	Hardware Lbs.	Struct. Steel Lbs.	Creo. Timber Piling L.F.	16" Precast Piling L.F.	18" Precast Piling L.F.	Conc. Tile Drain L.F.
Bents 1-14, 51	15	24.81	2,582	—	—	—	—	See Total	—	—
Bents 15-19, 21-39, 41, 44-50	32	56.64	5,824	—	—	—	—	—	See Total	—
Bents 20, 40	2	16.34	4,560	—	—	—	—	—	See Total	—
Int. Span (Type AW)	36	249.14	55,872	—	—	—	—	—	—	—
End Span (Type BW)	2	14.78	3,226	—	—	—	—	—	—	See Total
Int. Span (Type BW)	24	168.97	37,824	—	—	—	—	—	—	—
" " (Type CW)	2	14.33	3,192	—	—	—	—	—	—	—
End Span (Type DW)	2	15.26	3,314	—	—	—	—	—	—	See Total
Int. Span (Type EW)	22	149.84	33,594	—	—	—	—	—	—	—
" " (Type FW)	2	13.38	3,016	—	—	—	—	—	—	—
" " (Type GW)	2	14.34	3,290	—	—	—	—	—	—	—
" " (Type HW)	2	14.26	3,150	—	—	—	—	—	—	—
" " (Type IW & JW)	2	32.64	6,620	—	—	1320	—	—	—	—
Curb & Gutter	2	2.32	—	—	—	—	—	—	—	—
Rest Piers	2	41.47	6,125	—	—	—	—	—	See Total	—
Pivot Pier	1	142.03	17,401	—	—	7,576	—	—	See Total	—
Rest Pier Fenders	2	—	—	7.185	810	—	1,560	—	—	—
Pivot Pier Fender	1	—	—	33.790	3,120	—	5,280	—	—	—
Access Walkway	1	—	—	0.297	32	—	—	—	—	—
		~~[illegible]~~	~~[illegible]~~	—	—	—	—	—	—	—
Gate and Light Brackets		1.82	251	—	—	—	—	—	—	—
Footing for Warning Lt.	1	0.47	9	—	—	—	—	—	—	—
7-Pile Dolphin	8	—	—	—	960	—	2,240	—	—	—
Total		973.46	189,846	41.184	4,922	8,896	9,080	1,160	4,440	120



Note: The Project Engineer shall have the approaches graded approximately as shown in order to provide a smooth transition at the beginning and end of bridge. All costs of furnishing and placing the Asphaltic Concrete Surfacing required on the bridge and approaches shall be included in the unit price bid for Asphaltic Concrete Surface Course.

Notes:

Fixed and expansion arrangement of new beams shall match existing beams.

Flared curb and Gutter and Tile Slope Drain to be constructed at each end of bridge on both sides of roadway.

All costs of any excavation necessary for the construction of this bridge shall be included in the unit price bid for Class "A" Concrete.

Elevations shown are Finished Grade on ℄ roadway at ℄ joints except at ends of bridge where elevation is at end of bridge.

Work affecting navigation during construction shall be in accordance with requirements of U.S. War Department.

S C STATE HIGHWAY DEPARTMENT
COLUMBIA

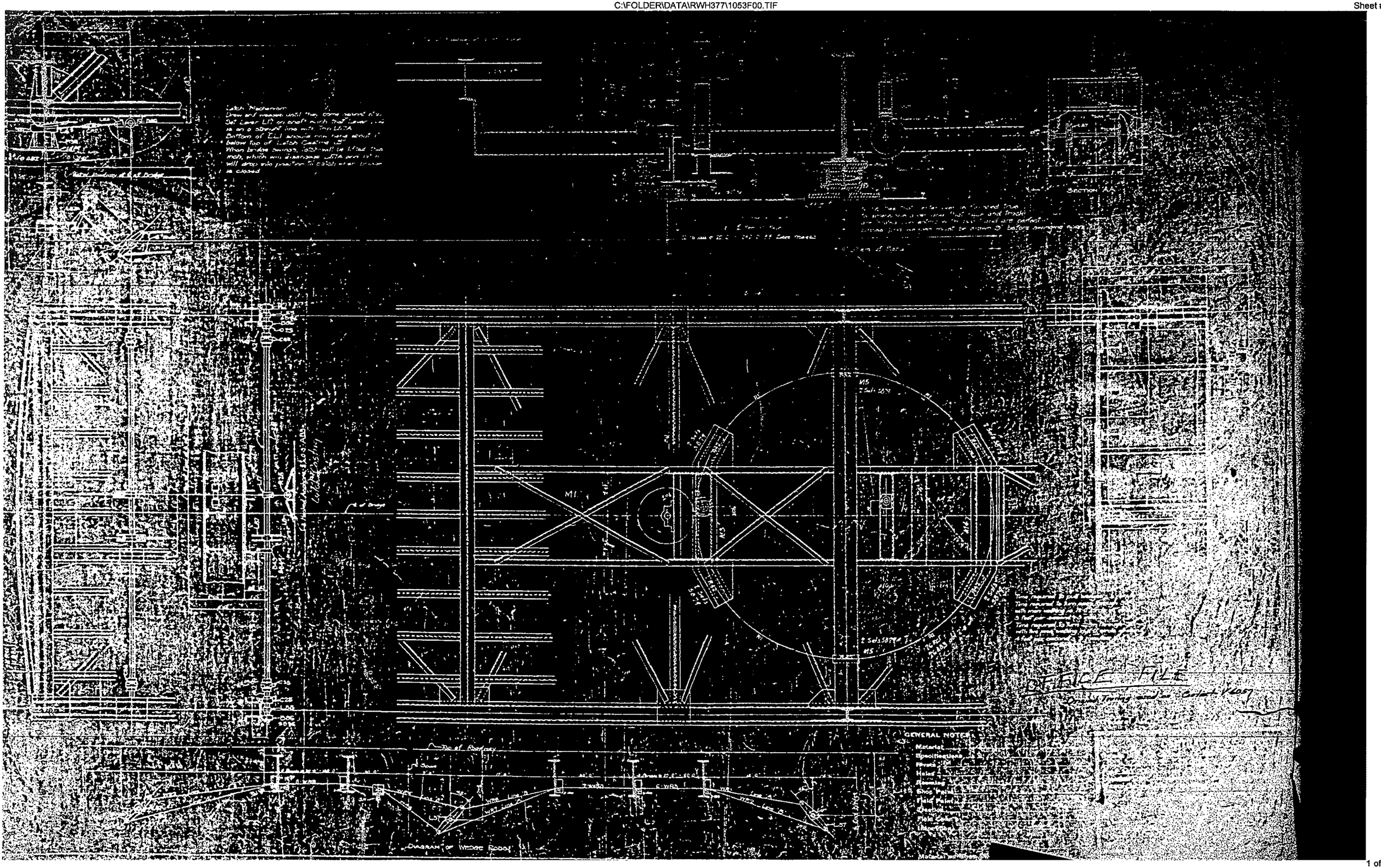
PLAN AND PROFILE
FOR BRIDGE OVER
SAVANNAH RIVER
BRIDGE NO. 7

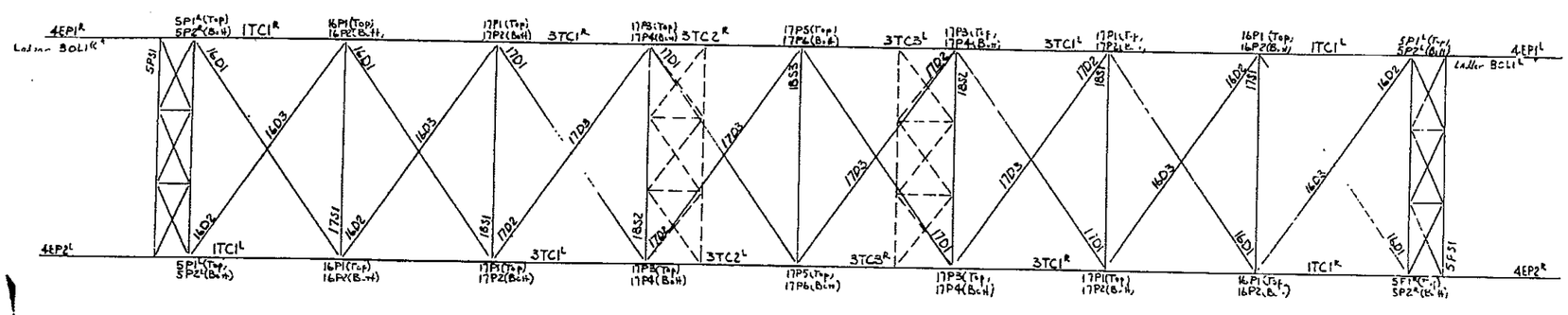
SC DOCKET NO. 27.251.2 RT. U.S. 17
COUNTY: CHATHAM, GA.-JASPER, S.C.

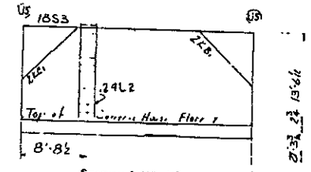
Drawn by C.L.H. 4/52
Checked by: W.F.L. (Recent) 8/52
Quantities Revised by D.F.D. Nov. 1952
Checked by C.L.H. 1/53

Quantities revised 4/53 by: W.F.L., Chkd. by:
Navigation Lights revised 4/53 by: W.F.L.
Chkd. by C.L.H. 4/53

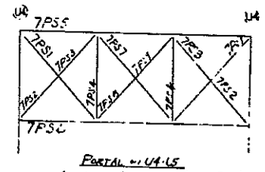
1410+00 1+00 2+00 3+00 4+00 5+00 6+00 7+00 8+00 9+00 1420+00 1+00 2+00 3+00 4+00 5+00 6+00 7+00 8+00 9+00 1430+00 1+00 2+00 3+00 4+00 5+00


Latch Mechanism
Draw and weeps until they come against stop
Set Lever LR on shaft such that Lever LR is on a straight line with Top LRTA
Bottom of LLI should now have about 1" below top of Latch Casting LS
When bridge swings, latch will be lifted this inch, which will disengage LRTA and it will drop into position to catch when bridge is closed
Section A-A
M1
M5
Top of Roadway
GENERAL NOTES
Material
Specifications
Finish
Heat Treatment
Assembly
Shop Paint
Field Paint
Dimensions
Tolerances
Weight
Diagram of Wedge Rods
OFFICE FILE

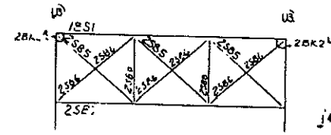




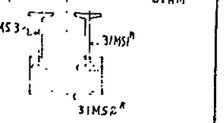
SECTION @ U5-U5
(Looking West)



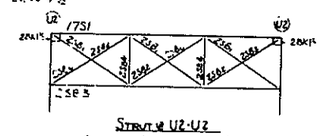
PORTAL at U4-U5
Looking towards end of span



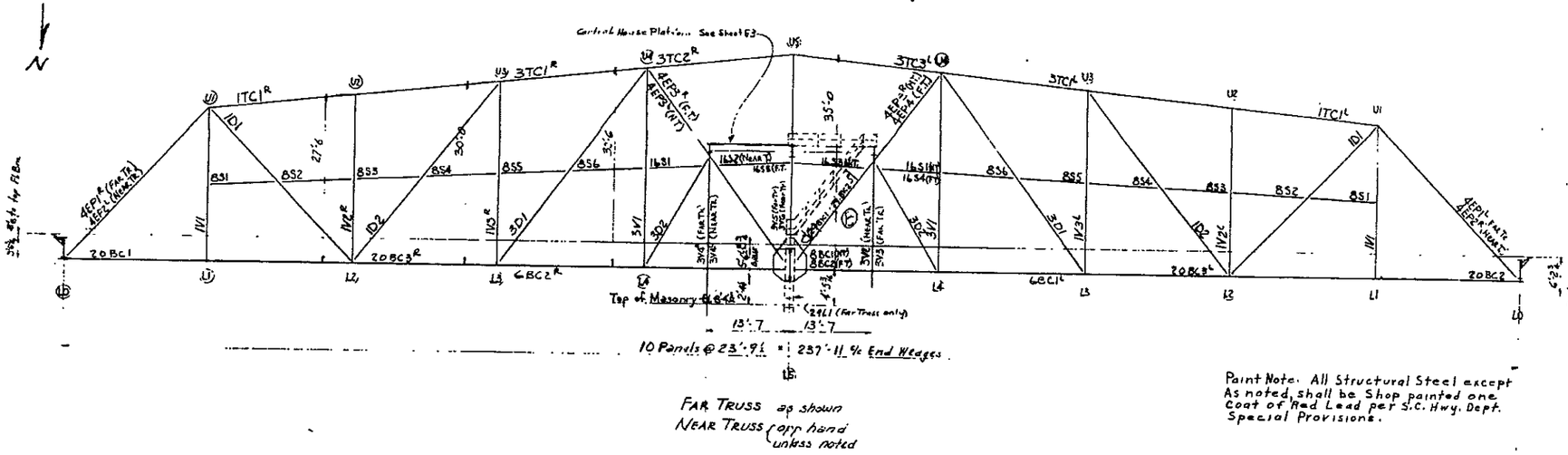
STRUT at U3-U3
Looking towards end of bridge from ℄



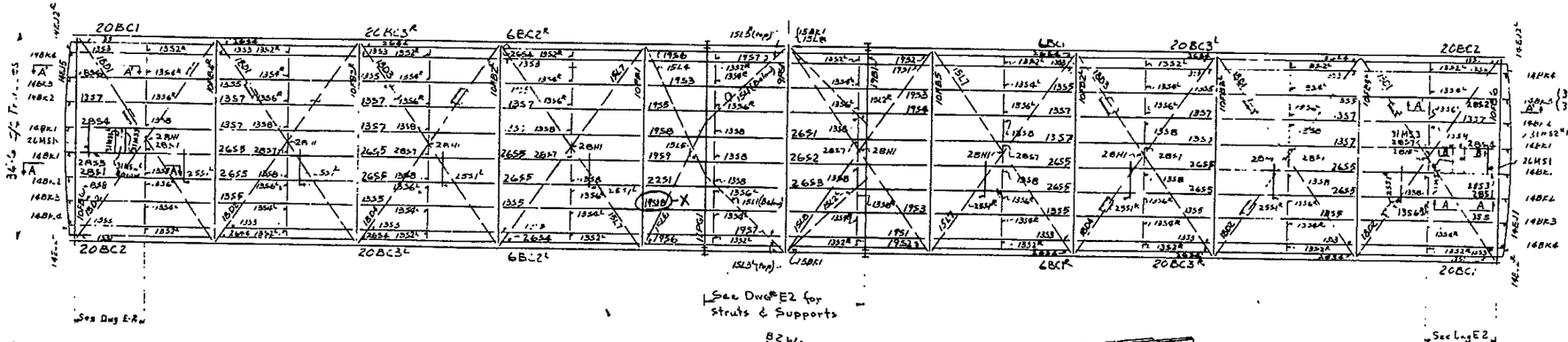
SECT. B-B



STRUT at U2-U2
Looking towards end of bridge from ℄



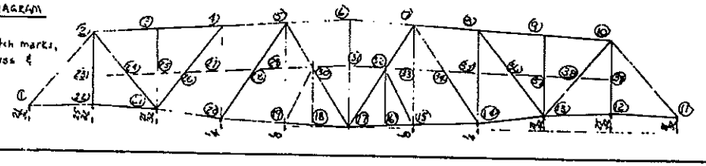
Paint Note. All Structural Steel except As noted, shall be Shop painted one Coat of Red Lead per S.C. Hwy. Dept. Special Provisions.

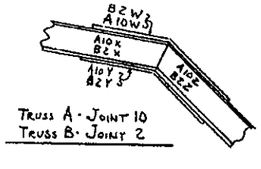


SECTION A-A & SECTION A'-A'

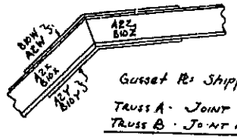
MATCH-MARKING & CAMBER DIAGRAM

Figures in circles indicate match marks. Use prefix letter 'A' for far truss & letter 'B' for near truss. Fabricate to position of truss members as shown.





Truss A - Joint 10
Truss B - Joint 2



Gusset Pl. Shipping Loose
Truss A - Joint 2
Truss B - Joint 10

For Reaming Notes See Detail Dwg.

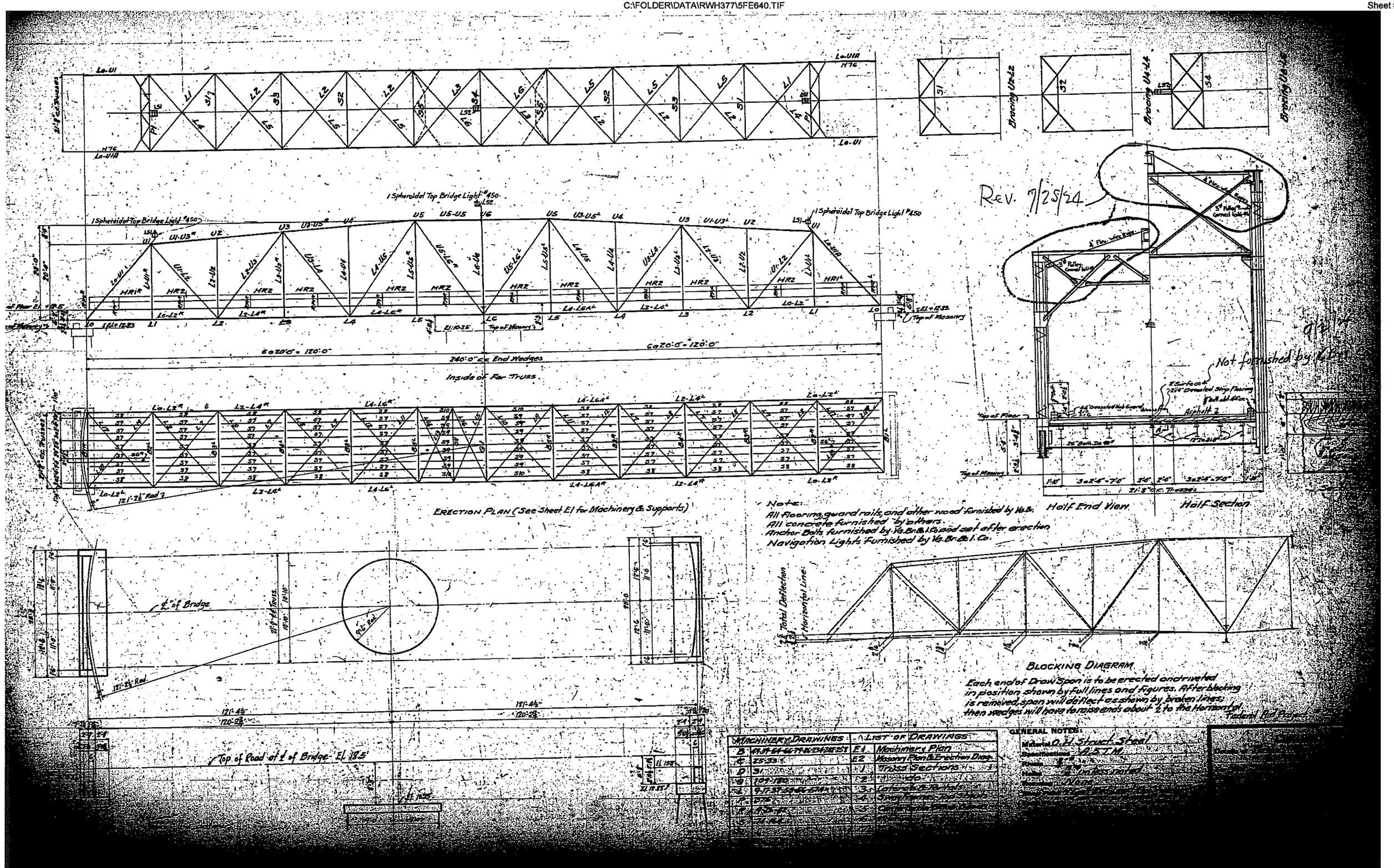
PAINT: See Note
SHOP CONTACT SURFACES: No

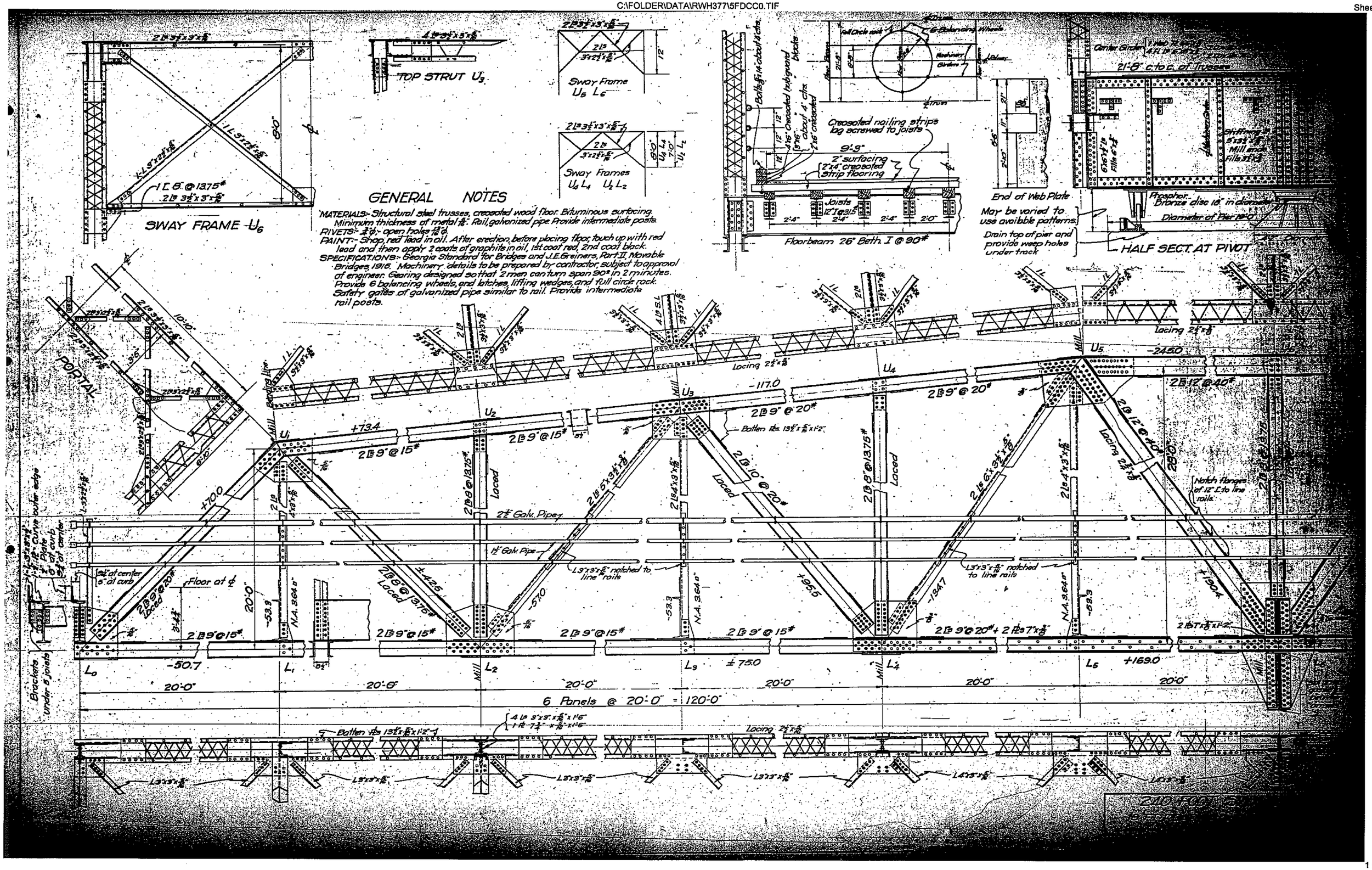
AMERICAN BRIDGE DIVISION
UNITED STATES STEEL CORPORATION

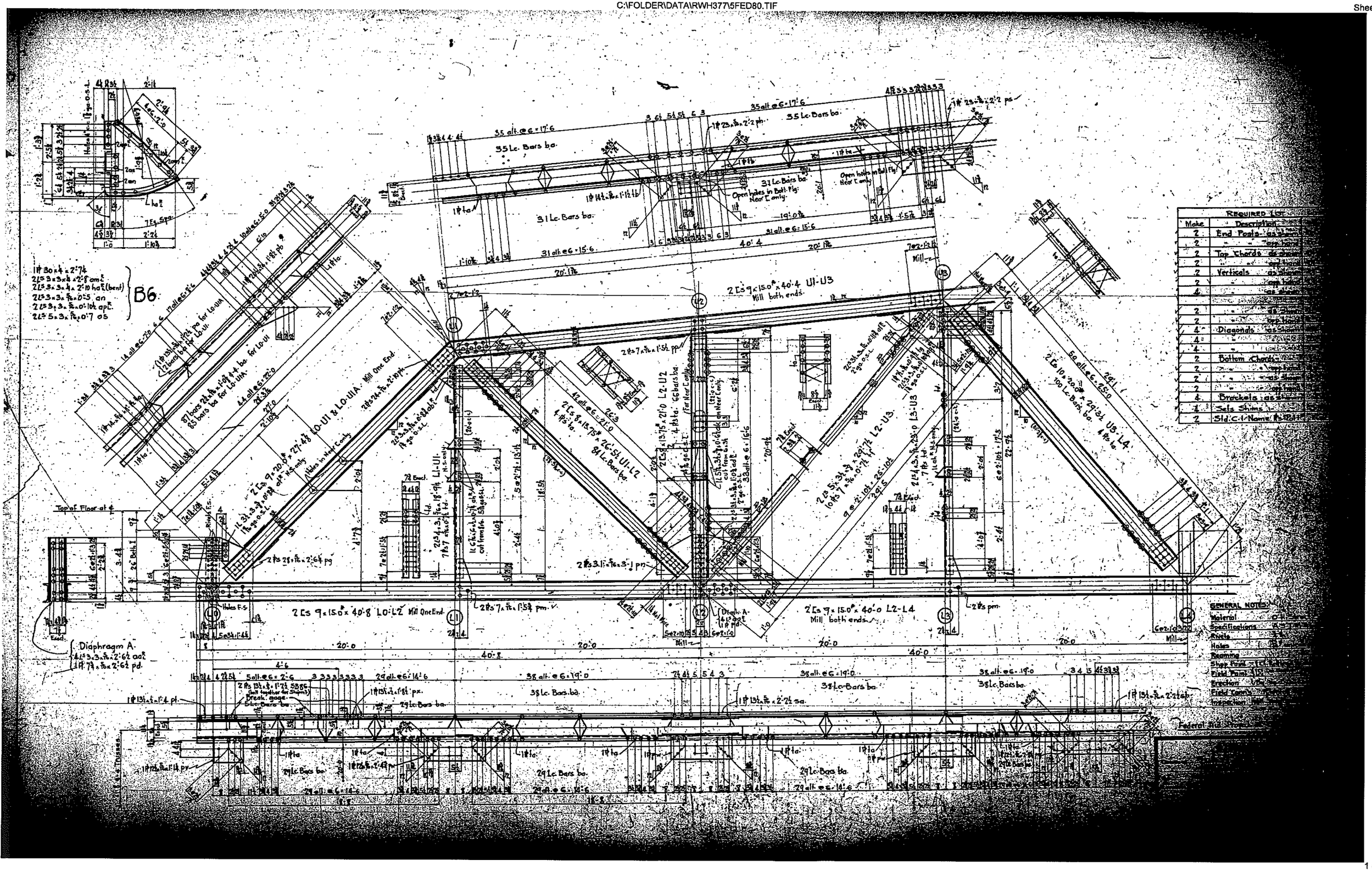
DRAWINGS MADE AT BIRMINGHAM PLANT
WORK FABRICATED AT BIRMINGHAM PLANT
IN CHARGE OF C.F. HARRIS
DRAW. MADE BY CARY DATE 7-7-53
DRAW. CHECKED BY LLH & VP DATE 8-17

REVISIONS	
F	
E	
D	
C	
B	1-6-53
X	12-22

ORDER No. Q-4003
SHEET No. E1


Rev. 7/25/24
1 Spheroidal Top Bridge Light #450
6 @ 20'-0" = 120'-0"
240'-0" c.c. End Wedges
Inside of Far Truss
Erection Plan (See Sheet E1 for Machinery & Supports)
Bracing U2-L2
Bracing U4-L4
Bracing U6-L6
Half End View
Half Section
Not furnished by Va. Br.
Note:
All flooring, guard rails, and other wood furnished by Va. B.
All concrete furnished by others.
Anchor Bolts furnished by Va. Br. & I. Co. and set after erection.
Navigation Lights Furnished by Va. Br. & I. Co.
Total Deflection
Horizontal Line
Blocking Diagram.
Each end of Draw Span is to be erected and riveted in position shown by full lines and figures. After blocking is removed, span will deflect as shown by broken lines; then wedges will have to raise ends about ½ to the Horizontal.
Federal Aid Project
℄ of Bridge
Top of Road at ℄ of Bridge El. 18.5'
Machinery Drawings
List of Drawings
E1 Machinery Plan
E2 Masonry Plan & Erection Diag.
General Notes:
Material O.H. Struct. Steel
Specifications A.S.T.M.

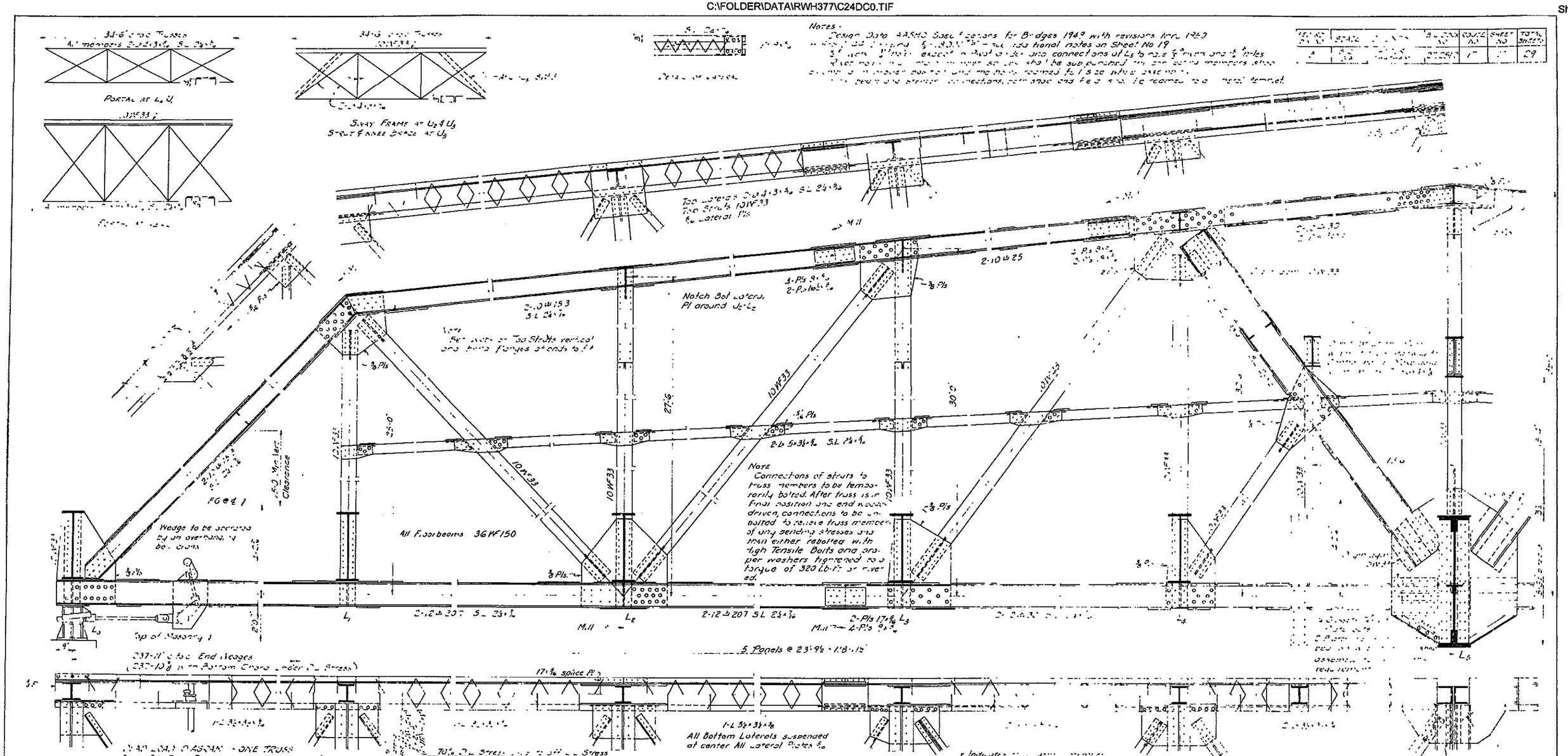

SWAY FRAME U6
TOP STRUT U3
Sway Frame U5 L6
Sway Frames U4 L4 U2 L2
GENERAL NOTES
MATERIALS:- Structural steel trusses, creosoted wood floor. Bituminous surfacing. Minimum thickness of metal 5/16". Rail, galvanized pipe. Provide intermediate posts.
PIVETS:- 3/4" ϕ, - open holes 13/16" ϕ.
PAINT:- Shop, red lead in oil. After erection, before placing floor, touch up with red lead and then apply 2 coats of graphite in oil, 1st coat red, 2nd coat black.
SPECIFICATIONS:- Georgia Standard for Bridges and J.E. Greiners, Part II, Movable Bridges, 1916. Machinery details to be prepared by contractor, subject to approval of engineer. Gearing designed so that 2 men can turn span 90° in 2 minutes. Provide 6 balancing wheels, end latches, lifting wedges, and full circle rack. Safety gates of galvanized pipe similar to rail. Provide intermediate rail posts.
Floorbeam 26" Beth. I @ 90#
Creosoted nailing strips lag screwed to joists
2" surfacing
2"x4" creosoted strip flooring
Joists 12" I @ 31.5
End of Web Plate
May be varied to use available patterns.
Drain top of pier and provide weep holes under track
HALF SECT. AT PIVOT
21'-8" c. to c. of trusses
Phosphor-Bronze disc 18" in diameter
Diameter of Pier 19'-0"
PORTAL
Locing 2 1/2"x 5/16"
Locing 2 1/2"x 5/16"
Locing 2 1/2"x 5/16"
Batten Pls 13 1/2"x 5/16"x 1'-2"
2 1/2" Galv. Pipe
1 1/2" Galv. Pipe
L3"x3"x5/16" notched to line rails
Notch flanges of 12" I to line rails
Floor at ϕ
Brackets under 5 joists
N.A. 3.64"
Laced
6 Panels @ 20'-0" = 120'-0"
L0 L1 L2 L3 L4 L5
U1 U2 U3 U4 U5
+73.4
+70.0
-117.0
-245.0
-50.7
±75.0
+169.0
±42.5
-57.0
+96.5
-184.7
+190.4
-53.9
-53.3
2 [9" @ 15#
2 [9" @ 20#
2 [12" @ 40#
2 [8" @ 13.75#
2 [10" @ 20#
2 [8" @ 13.75#
2 [9" @ 20# + 2 [7"x 5/8"
2 [7"x 5/8"x 1'-2"
20'-0"



Mark	Description
2	End Posts as shown
2	" " opp. hand
2	Top Chords as shown
2	" " opp. hand
2	Verticals as shown
2	" " opp. hand
4	" " as shown
2	" " as shown
2	" " opp. hand
4	Diagonals as shown
4	" "
4	" "
2	Bottom Chords
2	" " opp. hand
2	" " as shown
2	" " opp. hand
4	Brackets as shown
4	Sets Shims
2	Std. C. I. Name Plates

GENERAL NOTES

Material
Specifications
Rivets
Holes
Reaming
Shop Paint
Field Paint
Erection
Field Connections
Inspection



Sheet No.	Sheet Title	Source No.	Sheet No.	Total Sheets
2	Truss Details	27.251.2	17	29

DEAD LOAD DIAGRAM - ONE TRUSS

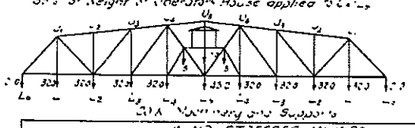
Gross DL Pier Reaction 38.0

Net DL Pier Reaction 63.2

Vertical Center Reaction to Truss 3.8

Approx. wt. of structural steel = 413,000 Lbs.

85% of weight of operator house applied to L_3



D.L. Machinery and Supports

Member	Dead Load Cases I & II	Live Load Case I Wedges Free	Live Load Case II Bridge Closed	Live Load Case III Cont Arm Cantilever Span	Live Load Case IV Cont Span	Live Load Case V Cont Span No Wedge	Case I + 20%	Case I + III	Case I + V	Case II + IV	Case II + V	Max Tension	Max Comp.
	STRESSES IN KIPS												
							Compression						
L_0L_2	-200	[illegible]	-50.5	[illegible]	+374		-240	+386	+234	[illegible]	[illegible]	399	24.0
L_2L_4	-126.1	[illegible]	[illegible]	[illegible]	[illegible]		-151.3	-620	-139.5	[illegible]	[illegible]		151.3
L_4L_6	-202.1	[illegible]	[illegible]	[illegible]	[illegible]		-242.5	-1617	-220.1	[illegible]	[illegible]		242.5
L_0U_1	+290	[illegible]	[illegible]	[illegible]	[illegible]		+348	-556	-341	[illegible]	[illegible]	348	581
U_1U_2	+644	[illegible]	[illegible]	[illegible]	[illegible]		+773	-224	-226	[illegible]	[illegible]	773	248
U_1U_3	+1259	+1050	+645	[illegible]	[illegible]		+1523	+624	+1034	+1234	+1191	1523	
U_2U_4	+2910	+2000	0	[illegible]	+218		+3492	+2910	+3128	+2931	+2824	3492	
U_2L_2	-639	-539	[illegible]	[illegible]	[illegible]		-767	-786	-860	-760	-760		86.0
L_2U_3	+994	+90	[illegible]	[illegible]	[illegible]		+1193	-398	+1410	+1361	+1318	1410	
L_3U_4	+1286	+1204	[illegible]	[illegible]	+592		+1543	+1862	+1878	+1844	+1796	1878	
U_4L_4	-1470	-1394	-683	[illegible]	[illegible]		-1764	-2133	-2118	-2131	-2127		2118
U_4L_5	+320	+320	+519	[illegible]	+416		+384	+835	+736	+835	+416	835	
U_5L_5	-717	-650	[illegible]	[illegible]	[illegible]		-860	-1004	-1013	-977	-946		1013
U_5L_6	778	714	0	[illegible]	84		-934	170	-862	-793	-798		934
End R	0	89	704	690	997		0	703	697	779	680		
Mid. R	329.5	311.5	704	644	1044		395.2	997	833.7	815.9	815.9		

70% of Stress [illegible] to 30% of Stress

Temperature Stresses Top Chord 20° warmer than Bottom Chord: 9 kip

Contract	Wedges	Wedges Free	Cont Span	Wedges Free	Cont Span	Wedges Free	Cont Span	Wedges Free	Cont Span	Wedges Free	Cont Span	Wedges Free	Cont Span
	Stress in Lateral												
		L_0L_2		L_2L_4		L_4L_6		L_0U_1		U_1U_2		U_1U_3	
Wedges Free A	50% of L_0L_2 Area Panel Loads = 1.4	+203	+27	+138	+290	+570	+180	-254	-254	-222		-315	
Cont Span								+183	+222	+195		+319	
Wedges Free B	50% of L_2L_4 Area Panel Loads = 1.4	+29	-5	+20	+270	+439	-16.8	-237	237	-207		-77	
Cont Span								+168	+207	+77		+294	
Wedges Free C	50% of L_4L_6 Area Panel Loads = 1.4	+29	+8	+13.4	+19.2	+234	-16	-18.3	-43	+254		-396	
								+16	+63	+13.3		+256	
Wedges Free D	50% of L_6L_8 Area Panel Loads = 1.37	-84	+252	+42.3	+59.2	+760	-5.0	-196	-433	-793		-1234	
								+5.0	+196	+434		+790	

Pos			
Quan	W.E.	C.L.H.	[illegible]
Tr	W.E.	C.L.H.	[illegible]
Sr	W.E.	C.L.H.	[illegible]
Des	W.E.	C.L.H.	[illegible]
	By	Chkd	Date

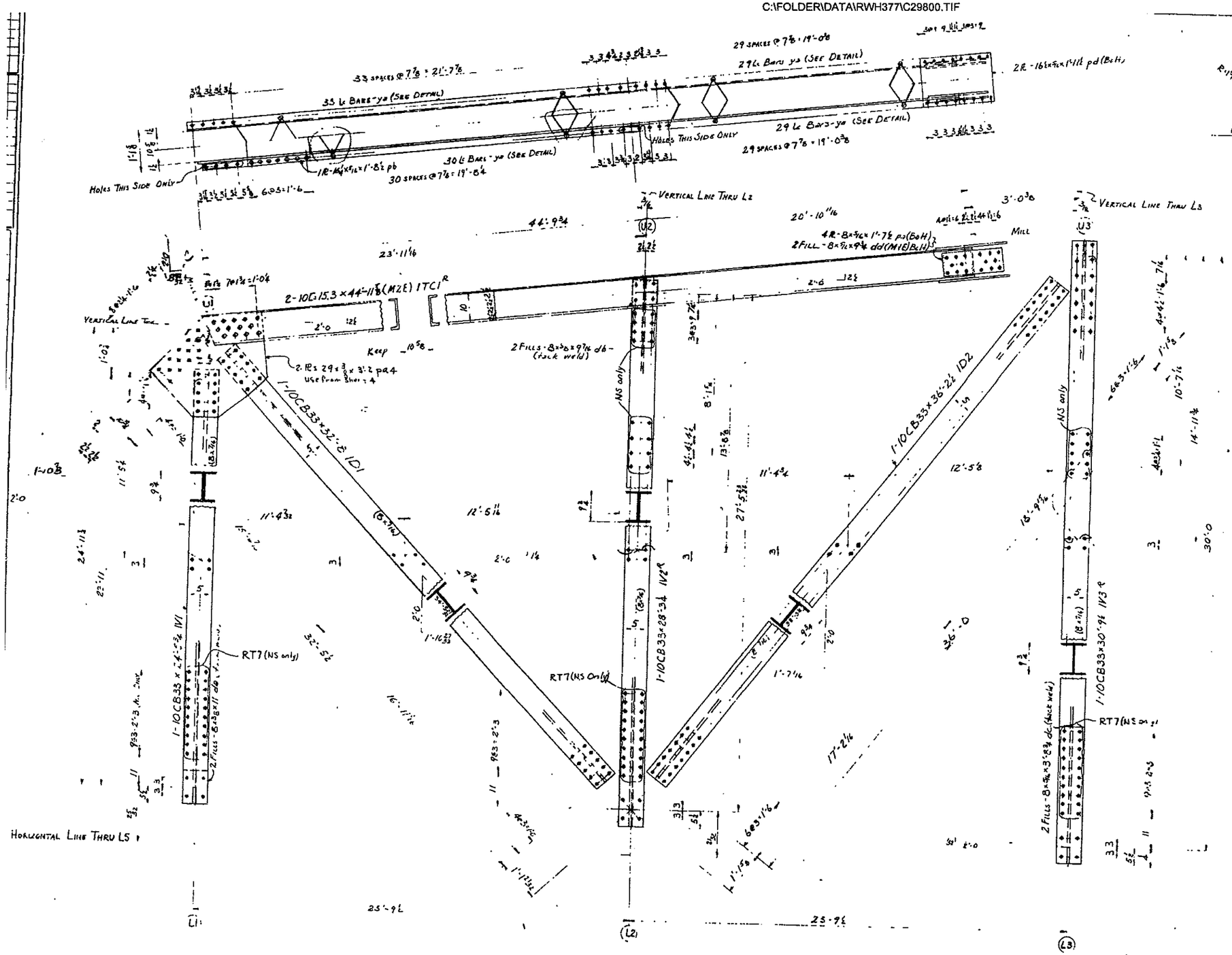
	L_0	L_1	L_2	L_3	L_4	L_5
D.L. deflection	-.45	-.91	-1.32	-.66	-.23	0
Wedge uplift (8.9 kips)	+.36	+.24	+.14	+.06	+.02	0
Net deflection	-.09	-.67	-1.18	-.60	-.21	0
Live Load deflection and by counterweight loss members	+.65	+.77	+.66	+.26	[illegible]	0
Resulting deflection	-.44	-.90	-.52	-.34	-.03	0
Vertical Curve ordinate	.41	.91	.51	.33	.06	0
FG Elevations - theoretical	[illegible]	[illegible]	[illegible]	[illegible]	16.930	16.992
FG Elevations - Rev	[illegible]	[illegible]	[illegible]	[illegible]	16.939	16.992

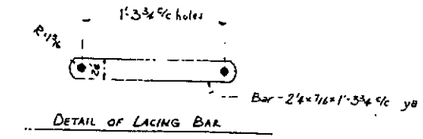
@ ℄ Roadway

S C STATE HIGHWAY DEPARTMENT
COLUMBIA

TRUSS DETAILS
237'-11" SWING SPAN
FOR BRIDGE OVER
SAVANNAH RIVER
BRIDGE NO. 7

DOCKET NO. 27.251.2 — ROUTE NO. U.S. 17
COUNTY: JASPER-S.C. / CHATHAM-GA — DATE: OCT. 1952





No.	Required List	Mark
4	Verticals	1V1
2	do	1V2R
2	do	1V2L
2	do	1V3R
2	do	1V3L
4	Diagonals	1D1
4	do	1D2
2	Top Chords	1TC1R
2	do	1TC1L

Reaming Note:
All holes in material ¾" thick or less and forming a part of the section of main members shall be sub-punched 1/4" small and reamed to size while the parts are securely bolted together. Holes may be punched full size in material used for lateral, longitudinal & sway bracing, lacing bars, stay plates & diaphragms. Holes in material greater than ¾" thick to be drilled.
The trusses are to be completely assembled in the shop, reamed & match marked.
Holes for floor beam & stringer connections to be reamed to a steel templet 1" thick.

Paint Note:
Surfaces to be riveted in contact either in the shop or in the field shall not be painted.

Truss Members
Swing Span Bridge Over Savannah River
Chatham County, Ga. & Jasper County, S.C.

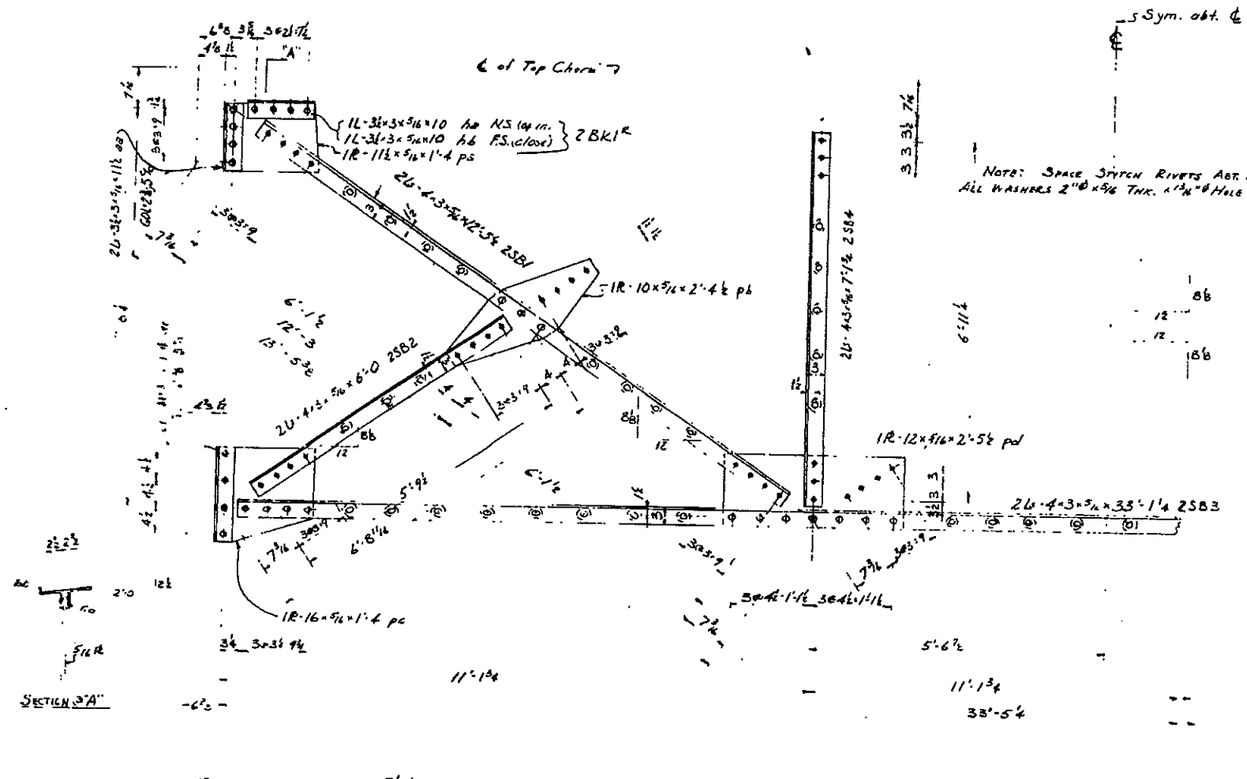
AMERICAN BRIDGE
DIVISION
UNITED STATES STEEL COMPANY

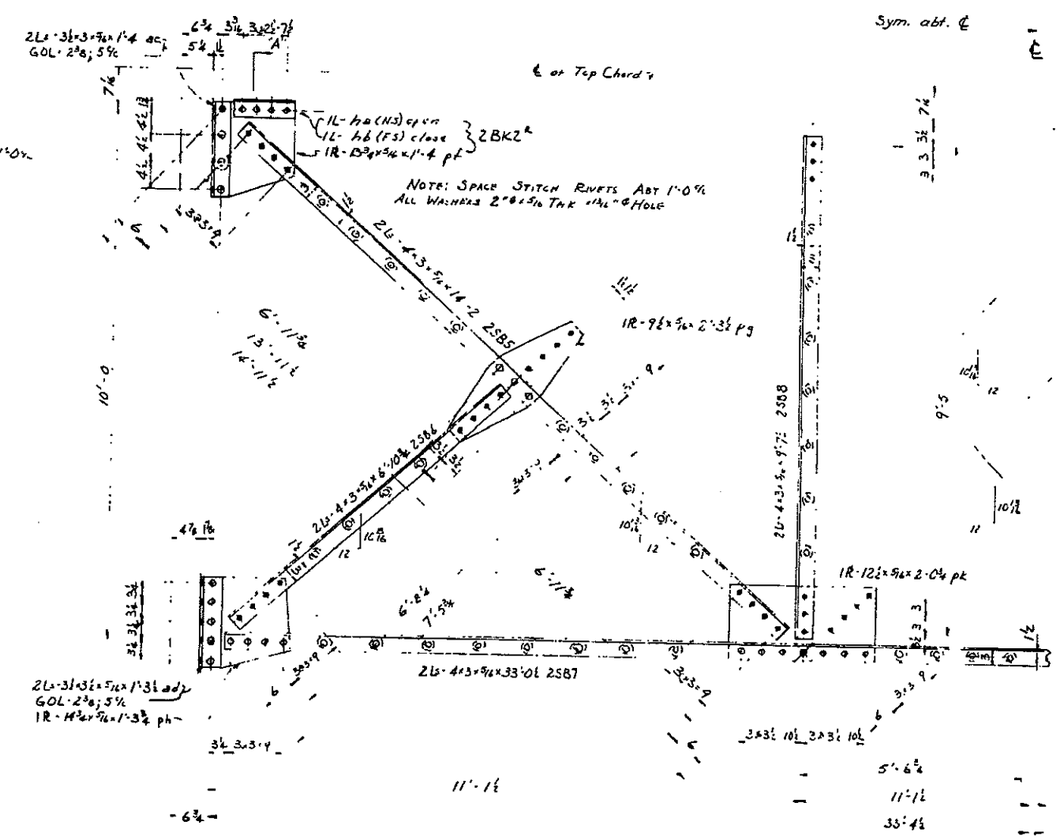
RIVETS ¾" ⌀ UNLESS NOTED
HOLES 13/16" ⌀ UNLESS NOTED

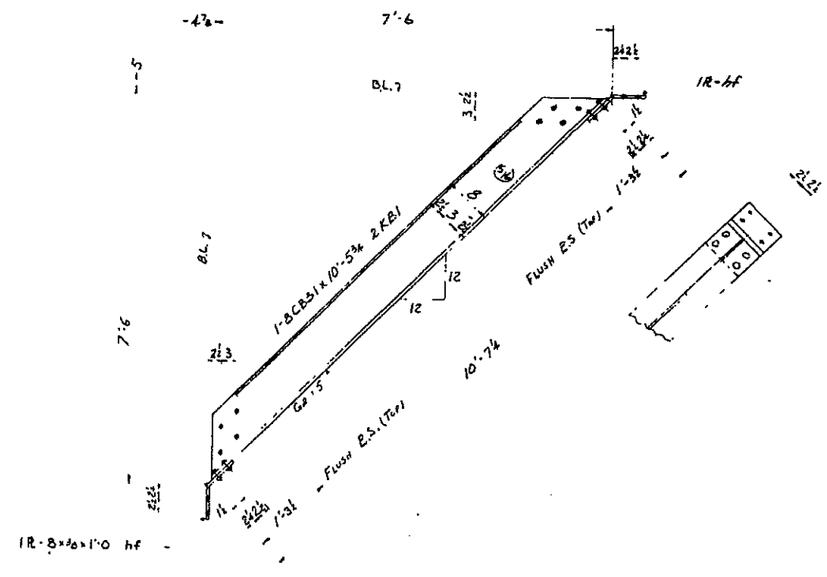
PAINT: Yes (See Paint Note)
SHOP CONTACT SURFACES: No

F	
E	
D	
C	2-19-54
B	2-12-54
X	1/22
REVISIONS	

DRAWINGS MADE AT Birmingham PLANT
WORK FABRICATED AT Birmingham PLANT
IN CHARGE OF C.F. Harris
DRAW. MADE BY Carr DATE 5-29-53
DRAW. CHECKED BY W.L. DATE 8-14-53
ORDER No. Q-4003
SHEET No. 1







No.	Required List	Mark
2	Sway Braces	2SB3
6	do	2SB1
12	do	2SB2
4	do	2SB4
2	do	2SB7
6	do	2SB5
12	do	2SB6
4	do	2SB8
2	Knee Braces	2KB1
2	Brackets	2BK1R
2	do	2BK1L
2	do	2BK2R
2	do	2BK2L

Paint Note.
Surfaces to be riveted in contact either in the shop or in the field shall not be painted.

Sway Frames & Knee Braces
Swing Span Bridge Over Savannah River
Chatham County, Ga. & Jasper County, S.C.

AMERICAN BRIDGE
DIVISION
UNITED STATES STEEL CORPORATION

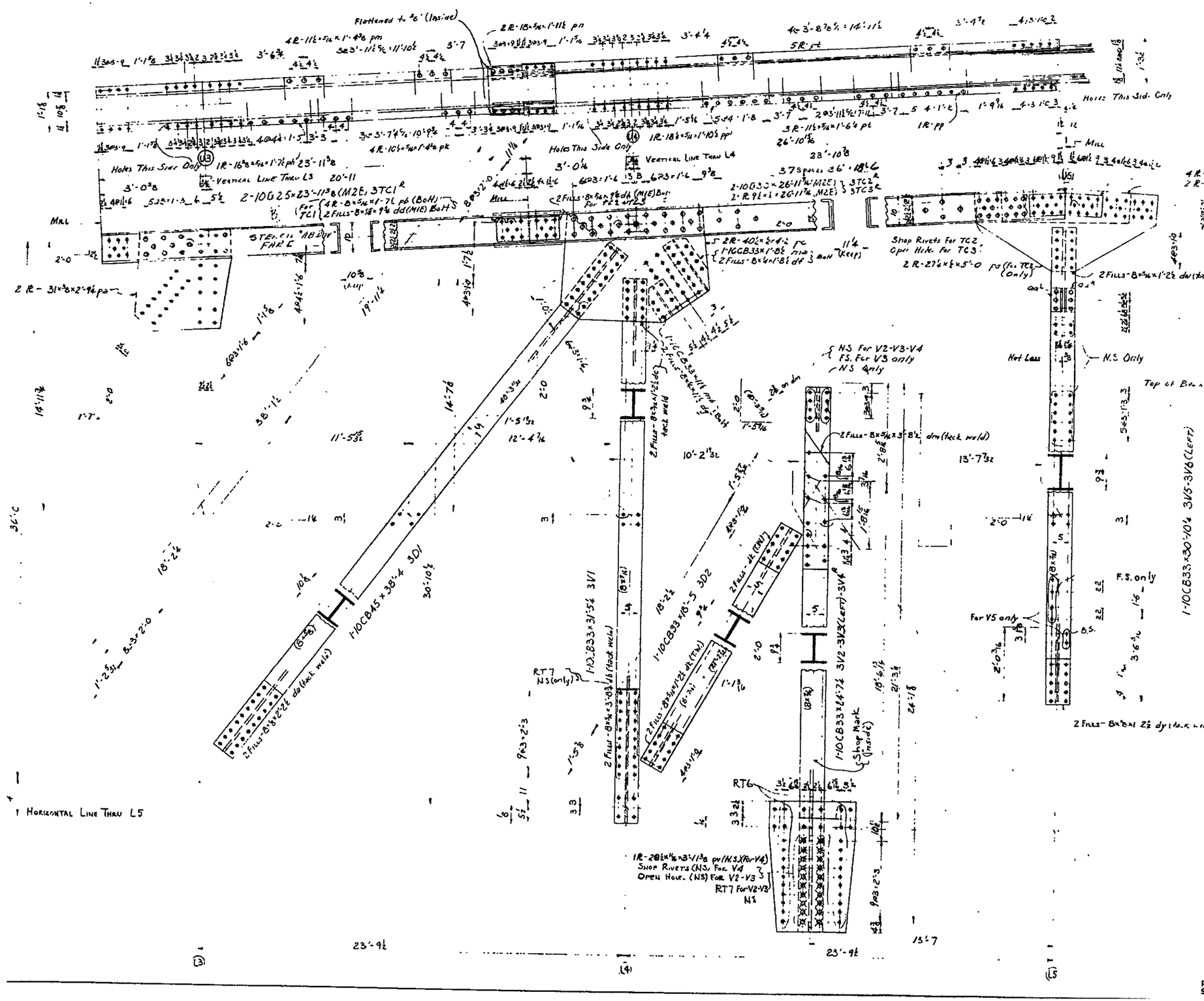
RIVETS ¾"Ø UNLESS NOTED
HOLES 13/16"Ø UNLESS NOTED

PAINT: Yes (See Paint Note)
SHOP CONTACT SURFACES: No

REVISIONS	
F	
E	
D	
C	
B	
X	

DRAWINGS MADE AT BIRMINGHAM PLANT
WORK FABRICATED AT BIRMINGHAM PLANT
IN CHARGE OF C.F. HARRIS
DRAW. MADE BY LARY DATE 5-26-53
DRAW. CHECKED BY WT DATE 8-14-53
ORDER No. Q-4003
SHEET No. 2

Adv. 001 2



Reaming Note:

All holes in material 3/4" thick or less and forming a part of the section of main members shall be subpunched 1/4" small and reamed to size while the parts are securely bolted together. Holes may be punched full size in material used for lateral, longitudinal & sway bracing, facing bars, stay plates & diaphragms. Holes in material greater than 3/4" thick to be drilled.

The trusses are to be completely assembled in the shop, reamed & match marked.

Holes for floor beam & stringer connections to be reamed to a steel template 1" thick.

Paint Note:

Surfaces to be riveted in contact either in the shop or in the field shall not be painted.

No.	Required List	Mark
2	Top Chords	3TC1R
2	do	3TC1L
1	do	3TC2R
1	do	3TC2L
1	do	3TC3R
1	do	3TC3L
4	Diagonals	3D1
4	do	3D2
4	Verticals	3V1
1	do	3V2
1	do	3V3 (Left)
1	do	3V4R
1	do	3V4L
1	do	3V5
1	do	3V6 (Left)

Truss Members
Swing Span Bridge Over Savannah R.
Chatham County, Ga. & Jasper County, S.C.

AMERICAN BRIDGE
DIVISION
UNITED STATES STEEL COMPANY

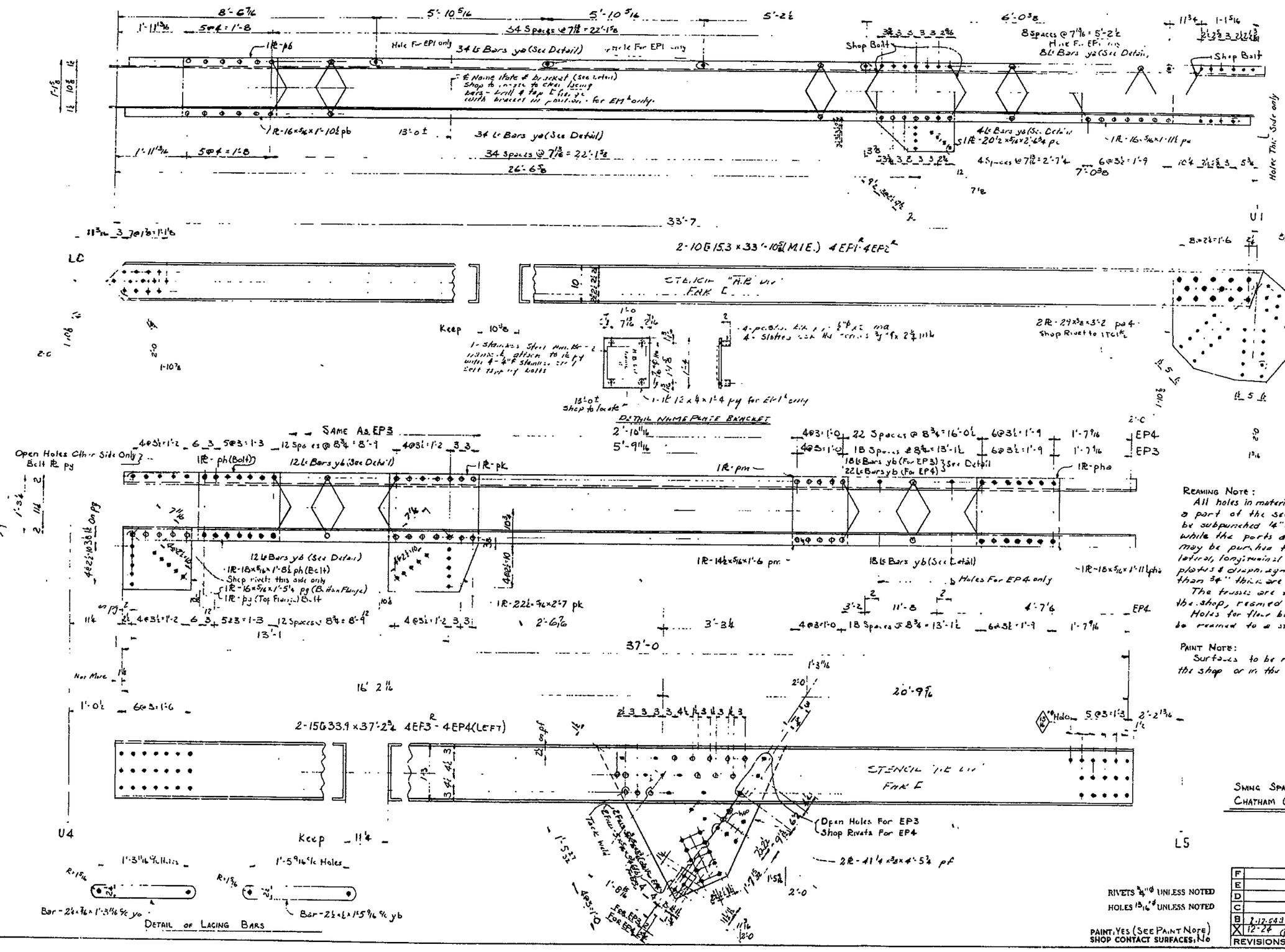
RIVETS 3/4" ϕ UNLESS NOTED
HOLES 13/16" UNLESS NOTED

PAINT: YES (See Paint Note)
SHOP CONTACT SURFACES: No

F	
E	
D	
C	
B	12-19-53
X	12-18-53
REVISIONS	

DRAWINGS MADE AT Birmingham PLANT
WORK FABRICATED AT Birmingham PLANT
IN CHARGE OF C.E. Harris
DRAW. MADE BY Cary DATE 6-8-52
DRAW. CHECKED BY INT DATE 8-14-53

ORDER No. O-4003
SHEET No. 3



No	Required List	Mark
1	End Post	4EP1R
1	do	4EP1L
1	do	4EP2R
1	do	4EP2L
2	do	4EP3R
1	do	4EP3L
1	do (Left)	4EP4

Reaming Note:
All holes in material 3/4" thick or less and forming a part of the section of main members shall be subpunched 1/4" small and reamed to size while the parts are securely bolted together. Holes may be punched full size in material used for lateral, longitudinal & sway bracing, lacing bars, stay plates & diaphragms. Holes in material greater than 3/4" thick are to be drilled.
The trusses are to be completely assembled in the shop, reamed & match marked.
Holes for floor beam & stringer connections to be reamed to a steel templet 1" thick.

Paint Note:
Surfaces to be riveted in contact either in the shop or in the field shall not be painted.

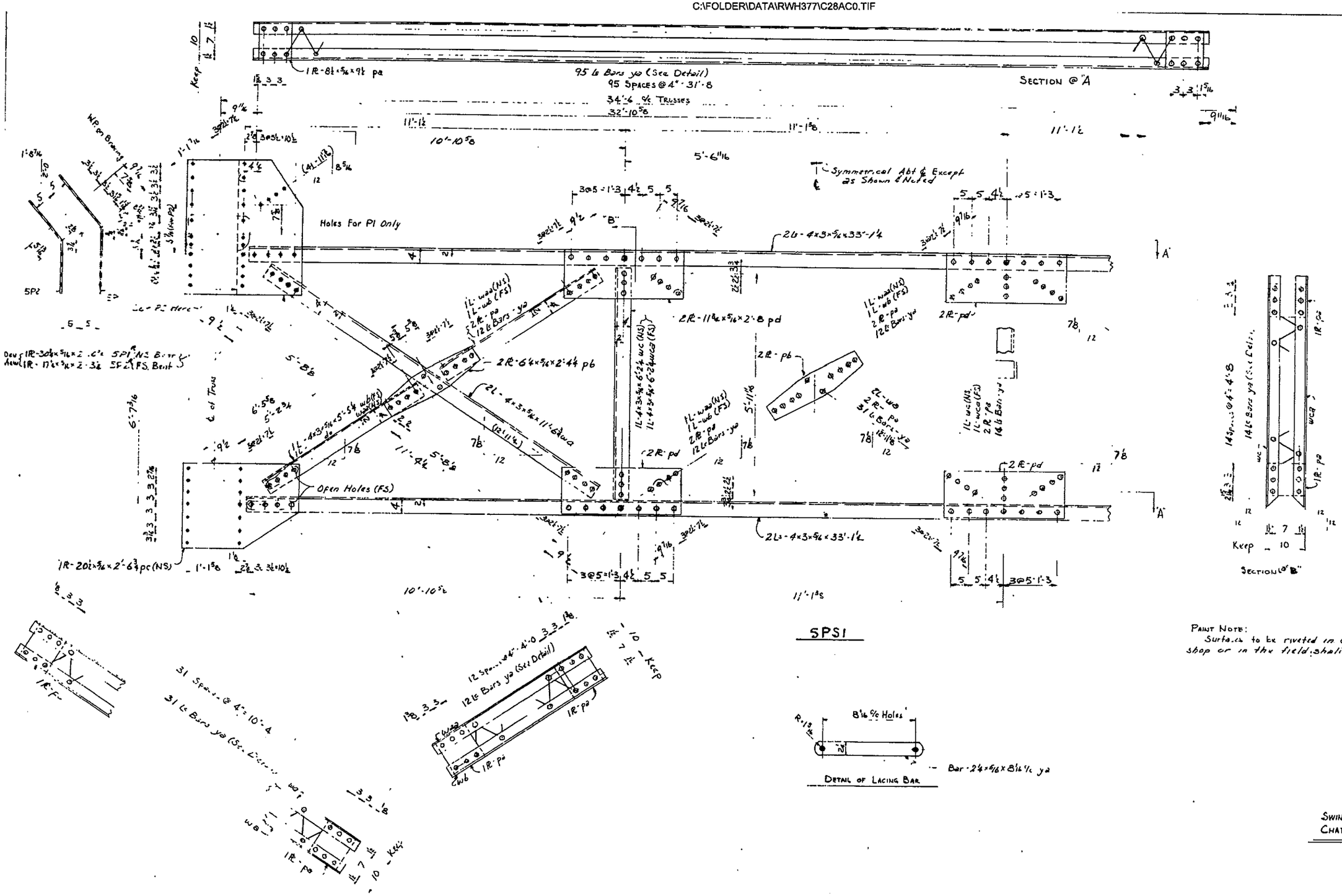
End Posts
Swing Span Bridge Over Savannah River
Chatham County, Ga. & Jasper County, S.C.

AMERICAN BRIDGE
UNITED STATES STEEL COMPANY

RIVETS 3/4"Ø UNLESS NOTED
HOLES 13/16"Ø UNLESS NOTED
PAINT: YES (SEE PAINT NOTE)
SHOP CONTACT SURFACES: No

F	
E	
D	
C	
B	2-12-54
X	12-24
REVISIONS	

DRAWINGS MADE AT BIRMINGHAM PLANT
WORK FABRICATED AT BIRMINGHAM PLANT
IN CHARGE OF C.F. HARRIS
DRAW. MADE BY CARY DATE 6-16-53
DRAW. CHECKED BY WTEVIN DATE 8-14-53
ORDER No. Q-4003
SHEET No 4



No.	Required	List	Mark
2	Plates		5Pl
2	do		5Pl
2	do		5P2
2	do		5P2
2	Portals		5PS

Paint Note:
Surfaces to be riveted in contact either in the shop or in the field, shall not be painted.

Portal
Swing Span Bridge Over Savannah Riv
Chatham County, Ga. & Jasper County, S

American Bridge Division
United States Steel Corporation

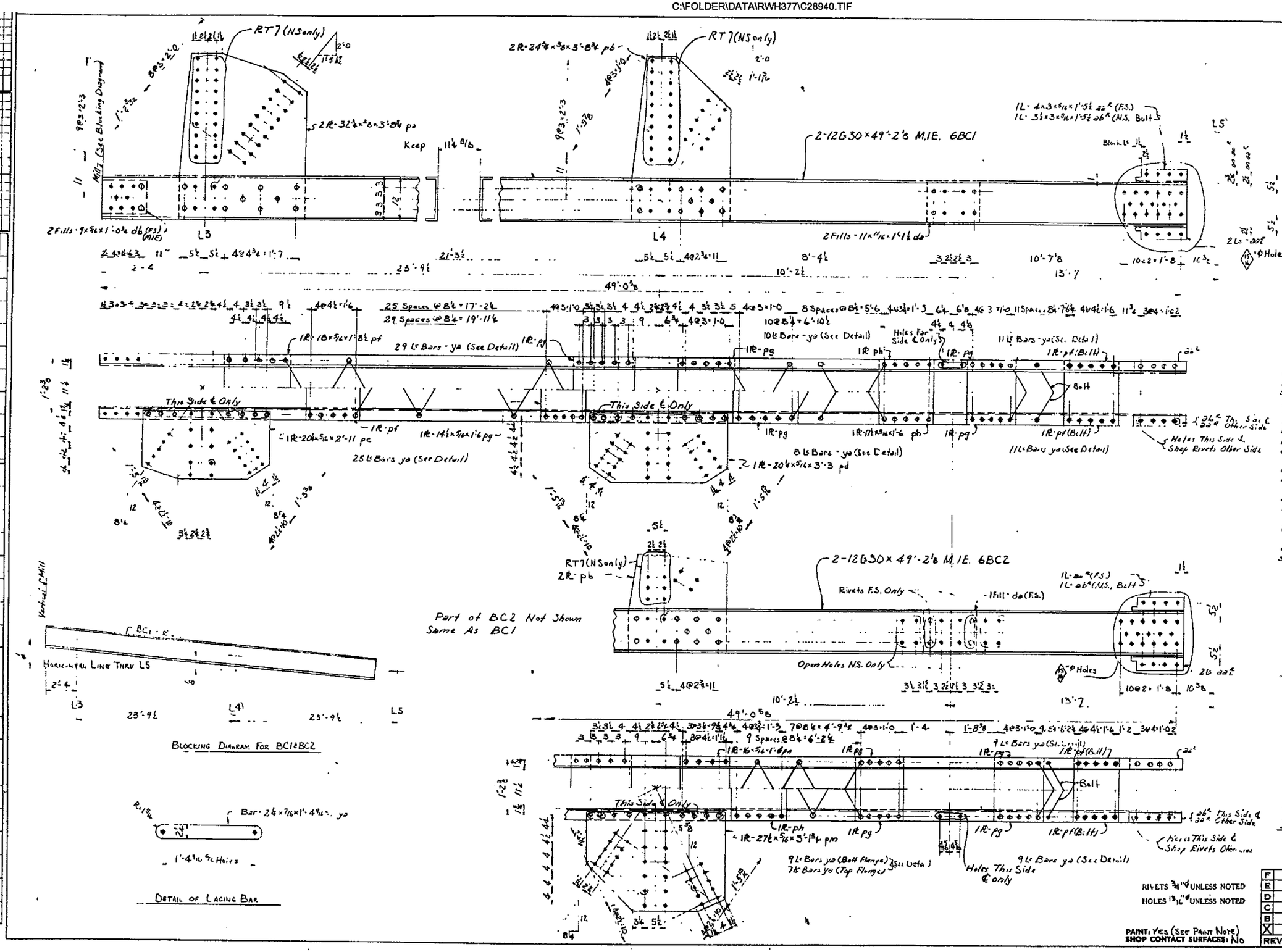
Rivets ¾" ø unless noted
Holes ⅝" ø unless noted

Paint: Yes (See Paint Note)

F	
E	
D	
C	
B	
X	

Drawings made at Birmingham
Work fabricated at Birmingham
In charge of C.F. Harris
Draw. made by Cary — Date 6-13-5
Draw. checked by — Date

Order No. — Sheet No



No.	Required List	Mark
1	Bottom Chord	6BC1R
1	do	6BC1L
1	do	6BC2R
1	do	6BC2L

Reaming Note:
All holes in material ¾" thick or less and forming a part of the section of main members shall be subpunched ¼" small and reamed to size while the parts are securely bolted together. Holes may be punched full size in material used for lateral, longitudinal & sway bracing, lacing bars, stay plates & diaphragms. Holes in material greater than ¾" thick are to be drilled.
The trusses are to be completely assembled in the shop, reamed & match-marked.
Holes for floor beam & stringer connections to be reamed to a steel templet 1" thick.

Paint Note:
Surfaces to be riveted in contact either in the shop or in the field shall not be painted.

Bottom Chord
Swing Span Bridge Over Savannah River
Chatham County, Ga. & Jasper County, S.C.

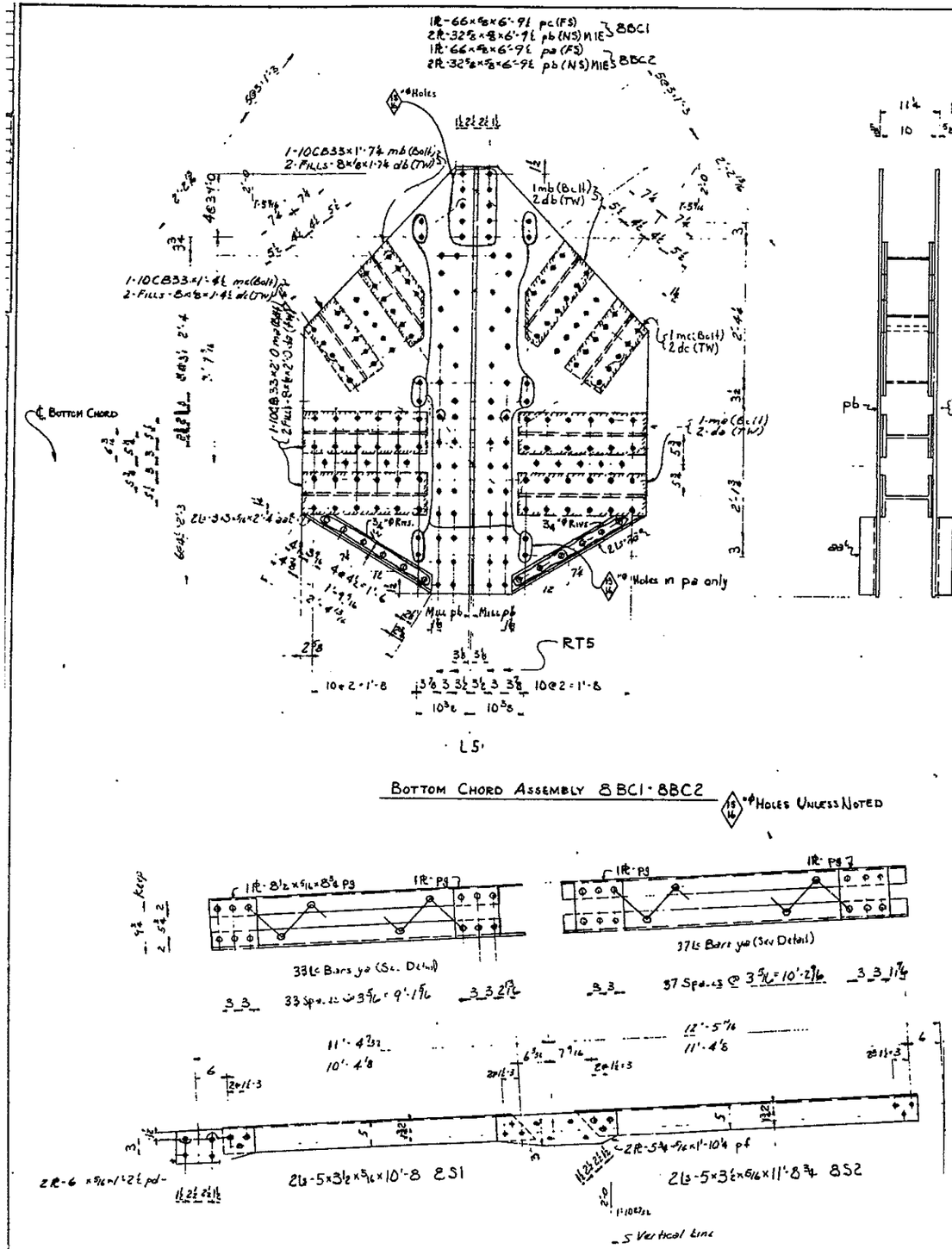
AMERICAN BRIDGE
DIVISION
UNITED STATES STEEL CORPORATION

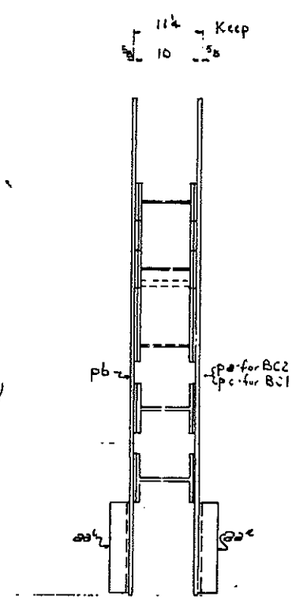
RIVETS ¾" ϕ UNLESS NOTED
HOLES 13/16" ϕ UNLESS NOTED

PAINT: Yes (See Paint Note)
SHOP CONTACT SURFACES: No

F	
E	
D	
C	
B	
X	
REVISIONS	

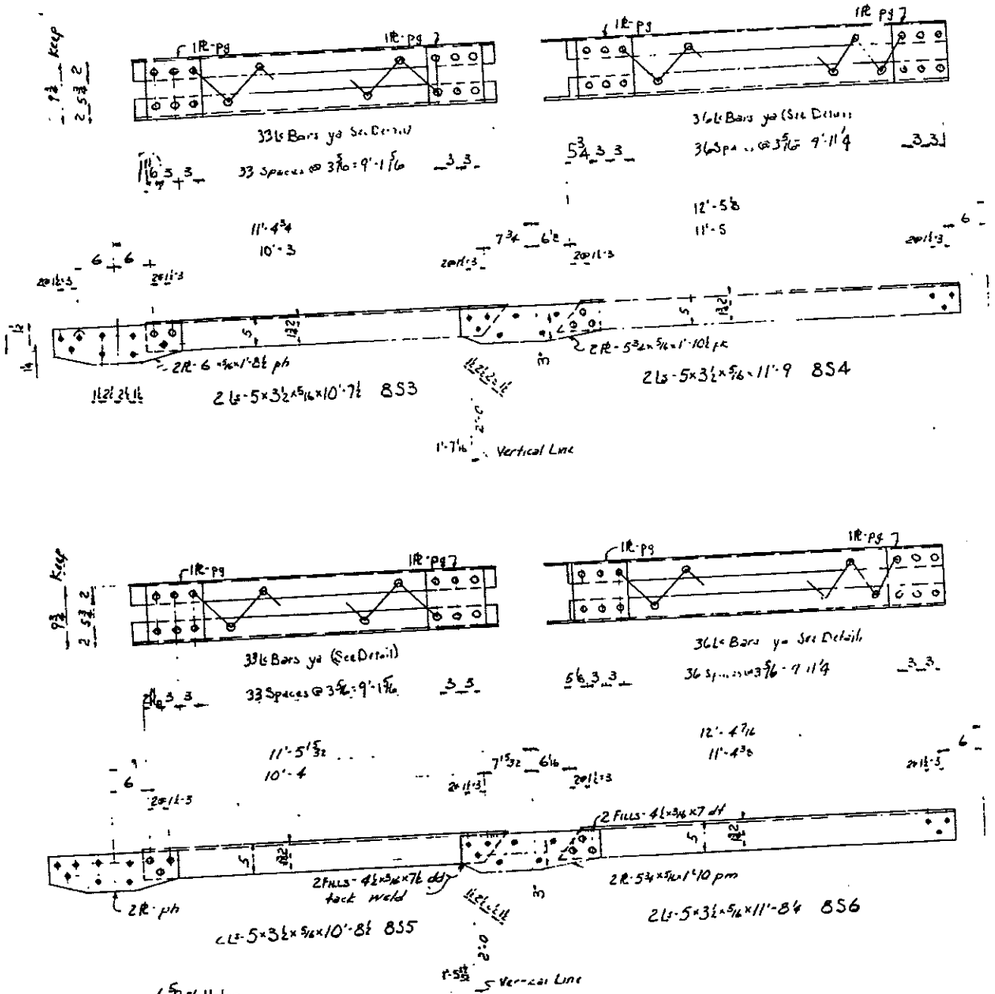
DRAWINGS MADE AT Birmingham PLANT
WORK FABRICATED AT Birmingham PLANT
IN CHARGE OF C.F. Harris
DRAW. MADE BY C.F.Ary DATE 6-22-53
DRAW. CHECKED BY HP DATE 8-14-53
ORDER No. Q-4003
SHEET No. 6

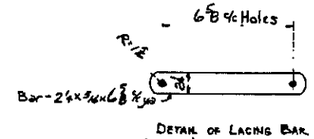




BOTTOM CHORD ASSEMBLY 8BC1-8BC2

13/16"φ HOLES UNLESS NOTED





DETAIL OF LACING BAR

No.	REQUIRED LIST	MARK
1	BOTTOM CHORD ASSEMBLY	8BC1
1	do	8BC2
4	STRUTS	8S1
4	do	8S2
4	do	8S3
4	do	8S4
4	do	8S5
4	do	8S6

PAINT NOTE:
Surfaces to be riveted in contact either in the shop or in the field shall not be painted.

REAMING NOTE:
All holes in material ¾" thick or less and forming a part of the section of main members shall be subpunched ¼" small and reamed to size while the parts are securely bolted together. Holes may be punched full size in material used in lateral, longitudinal & sway bracing, lacing bars, stay plates & diaphragms. Holes in material greater than ¾" thick to be drilled.
The trusses are to be completely assembled in the shop, reamed & match marked.
Holes for floor beam & stringer connections to be reamed to a steel template 1" thick.

RIVETS ¾"φ UNLESS NOTED
HOLES 13/16"φ UNLESS NOTED

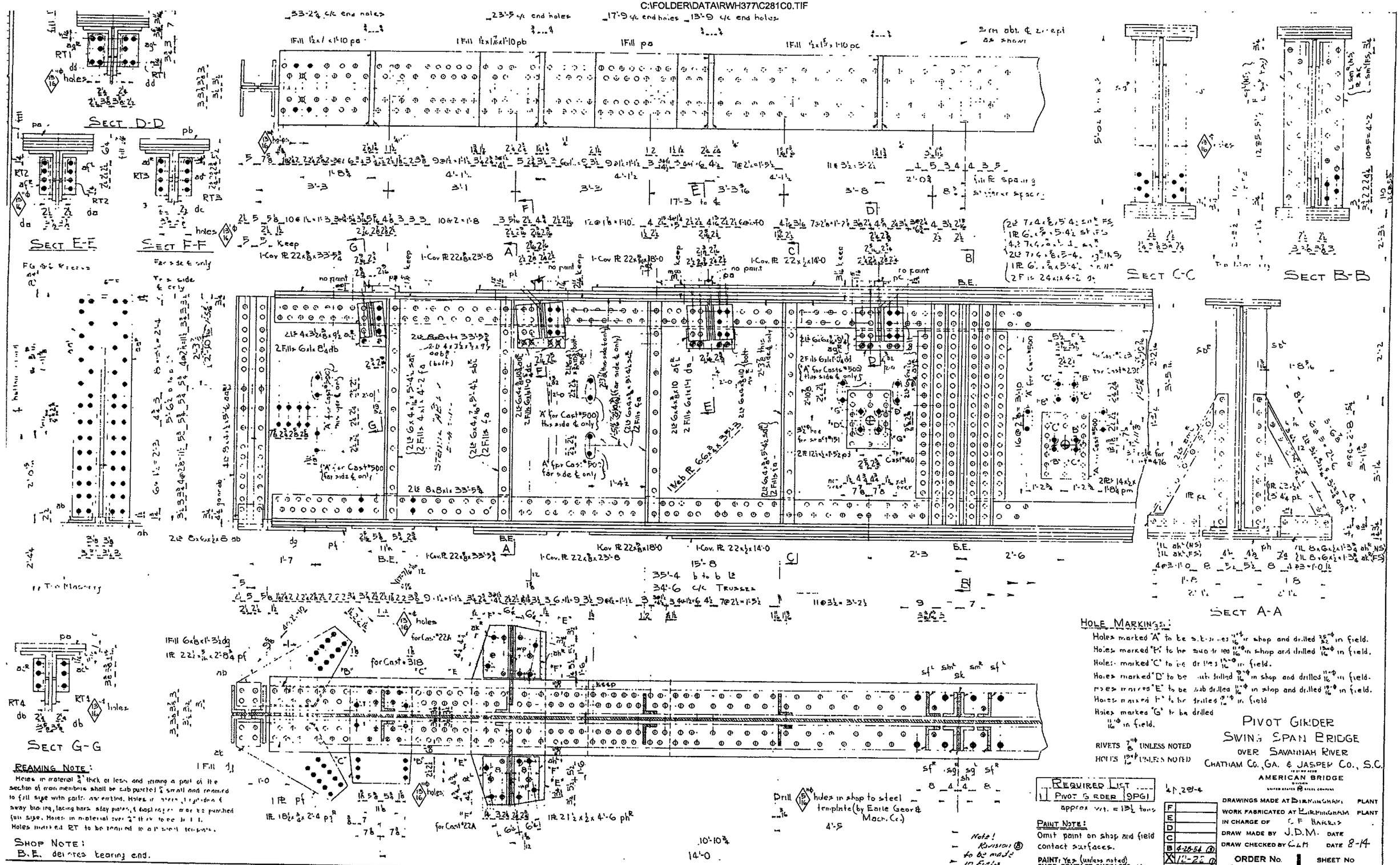
PAINT: Yes (SEE PAINT NOTE)
SHOP CONTACT SURFACES: No

PLATES AND STRUTS
SWING SPAN BRIDGE OVER SAVANNAH RIVER
CHATHAM COUNTY, GA. & JASPER COUNTY, SC.

AMERICAN BRIDGE
DIVISION OF UNITED STATES STEEL CORPORATION

DRAWINGS MADE AT	BIRMINGHAM PLANT
WORK FABRICATED AT	BIRMINGHAM PLANT
IN CHARGE OF	C.F. HARRIS
DRAW. MADE BY	CAEY DATE 6-29-53
DRAW. CHECKED BY	VHF DATE 8-14-53
ORDER No.	Q-4003
SHEET No.	8

F
E
D
C
B
X 12-16-53 (1)
REVISIONS



REAMING NOTE:

Holes in material 3/4" thick or less and joining a part of the section of main members shall be sub punched 1/4" small and reamed to full size with parts assembled. Holes in stern, longitudinal & sway bracing, lacing bars, stay plates, & diaphragms may be punched full size. Holes in material over 3/4" thick to be drilled. Holes marked RT to be reamed to all steel templates.

SHOP NOTE:

B.E. denotes bearing end.

HOLE MARKINGS:

Holes marked "A" to be sub-drilled 11/16"φ in shop and drilled 25/32"φ in field.
Holes marked "B" to be sub-drilled 13/16"φ in shop and drilled 13/16"φ in field.
Holes marked "C" to be drilled 13/16"φ in field.
Holes marked "D" to be sub-drilled 9/16"φ in shop and drilled 11/16"φ in field.
Holes marked "E" to be sub-drilled 11/16"φ in shop and drilled 13/16"φ in field.
Holes marked "F" to be drilled 15/16"φ in field.
Holes marked "G" to be drilled 11/16"φ in field.

RIVETS 7/8"φ UNLESS NOTED
HOLES 15/16"φ UNLESS NOTED

PIVOT GIRDER SWING SPAN BRIDGE

OVER SAVANNAH RIVER
CHATHAM CO., GA. & JASPER CO., S.C.
AMERICAN BRIDGE

REQUIRED LIST	
1	PIVOT GIRDER (9PG1)

approx wt. = 13½ tons

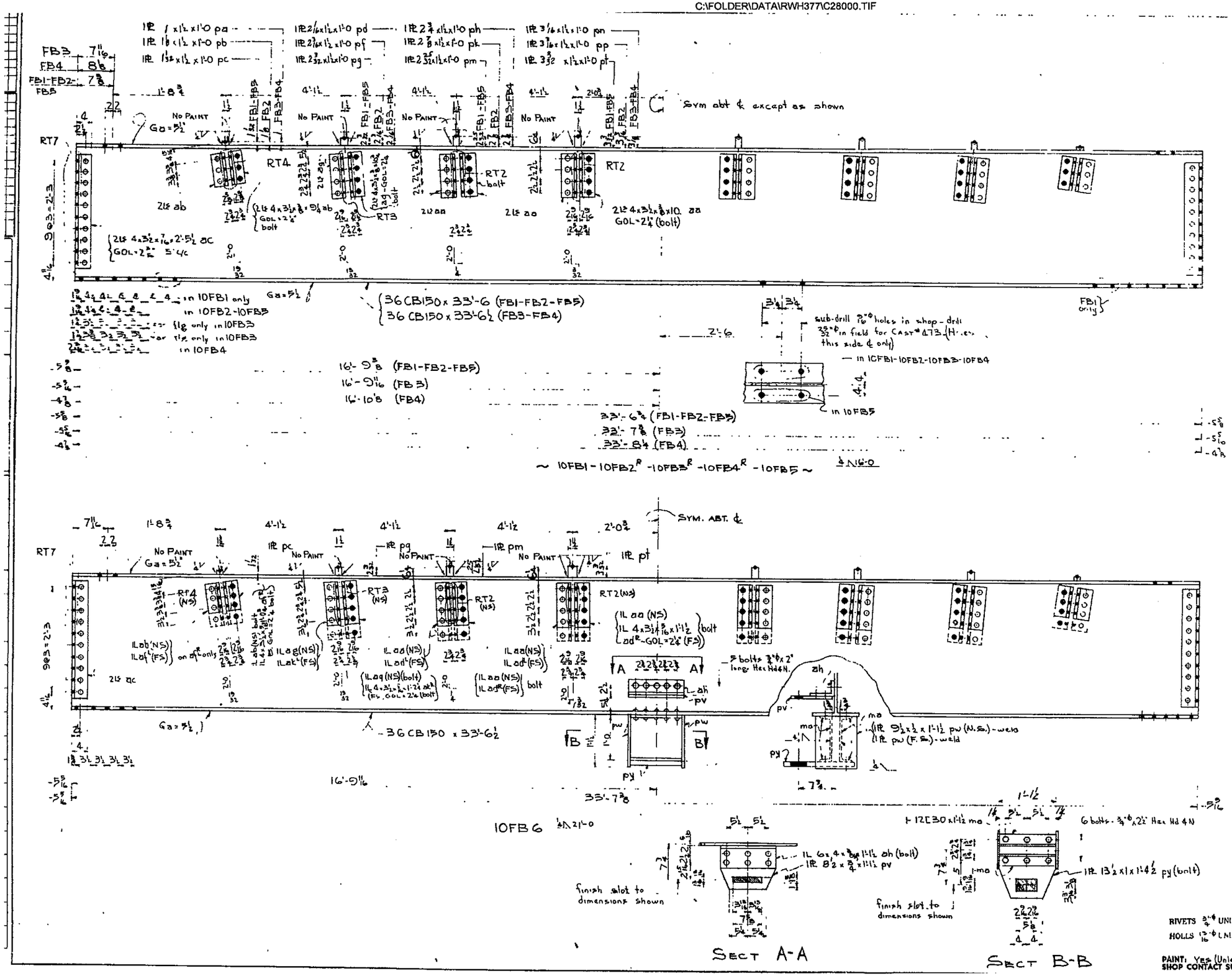
PAINT NOTE:

Omit paint on shop and field contact surfaces.

PAINT: Yes (unless noted)
SHOP CONTACT SURFACES: No

REVISIONS	
F	
E	
D	
C	
B	4-28-54 (3)
X	12-22 (1)

DRAWINGS MADE AT BIRMINGHAM PLANT
WORK FABRICATED AT BIRMINGHAM PLANT
IN CHARGE OF C. F. HARRIS
DRAW MADE BY J.D.M. DATE
DRAW CHECKED BY C.L.H. DATE 8-14
ORDER No. Q4003
SHEET No 9



	Required	
1	Floor Beam	10FB1
1	Floor Beam	10FB2
1	Floor Beam (left)	10FB2'
1	Floor Beam	10FB3
1	Floor Beam (left)	10FB3'
1	Floor Beam	10FB4
1	Floor Beam (left)	10FB4'
1	Floor Beam	10FB5
2	Floor Beam	10FB6

Shop Note:

Length of Floor Beams to be ±1/16". Shop to take special care that end connections are riveted square with beams.

Reaming Note:

Holes marked RT to be reamed to a 1" steel template.

Paint Note:

Surfaces to be riveted in contact either in shop or field shall not be painted.

Floor Beams

Swing Span Bridge over Savannah River

Chatham County, Ga. & Jasper County, S.C.

AMERICAN BRIDGE DIVISION — UNITED STATES STEEL COMPANY

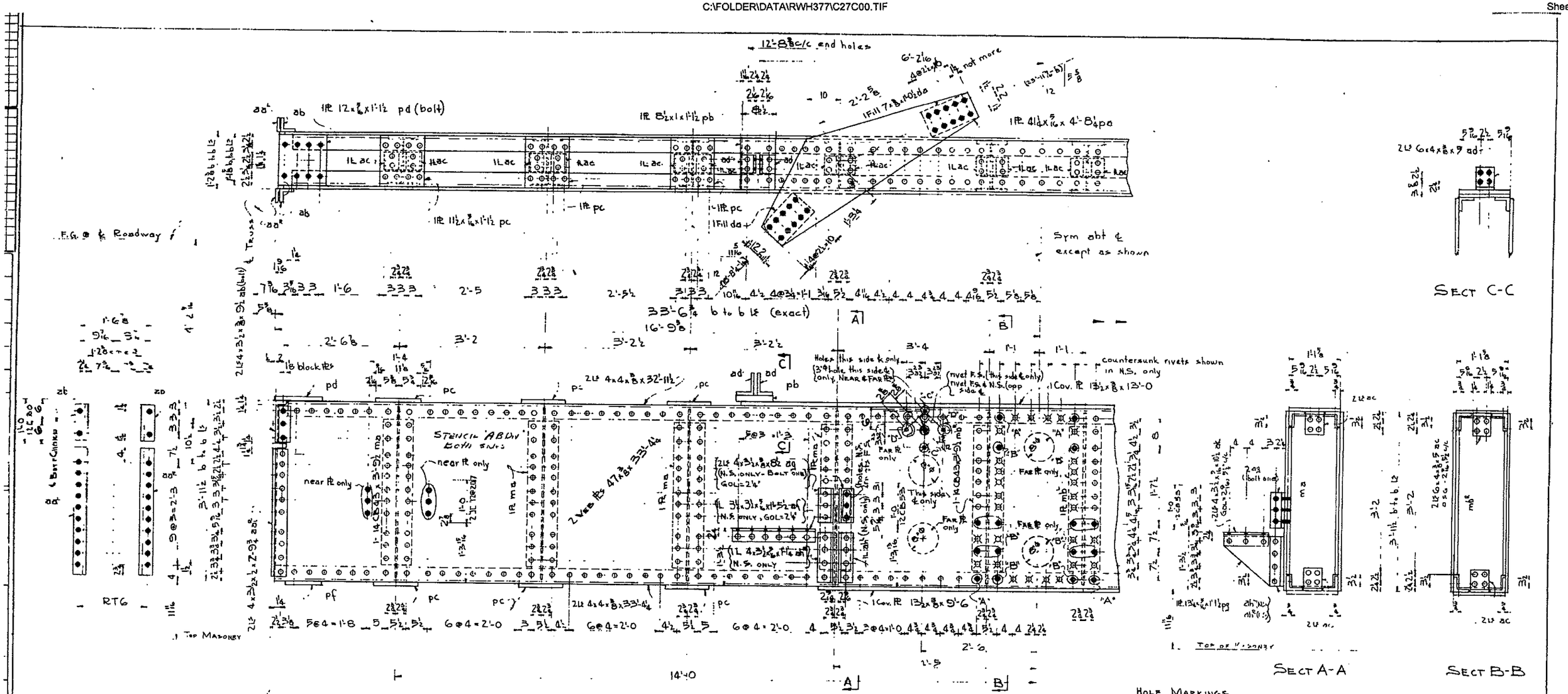
RIVETS ¾" ϕ UNLESS NOTED
HOLES 13/16" ϕ UNLESS NOTED

PAINT: Yes (Unless Noted)
SHOP CONTACT SURFACES: No

F	
E	
D	
C	
B	
X	
REVISIONS	

DRAWINGS MADE AT BIRMINGHAM PLANT
WORK FABRICATED AT BIRMINGHAM PLANT
IN CHARGE OF C. F. HARRIS
DRAW. MADE BY J.D.M. DATE
DRAW. CHECKED BY CLH DATE 8/13

ORDER No. Q 4003 | SHEET No. 10



Hole Markings

Holes marked "A", for N.S. only, to be sub-drilled 13/16"φ in shop and drilled 1 5/16"φ in field to match Cast #56. Rivets for F.S.

Holes marked "B", for N.S. only, to be drilled 1 5/16"φ in field to match Cast #56. Rivets for F.S.

Holes marked "C", for N.S. only, to be sub-drilled 9/16"φ in shop and drilled 11/16"φ in field to match cast #469.

Holes marked "D", for N.S. only to be drilled 11/16"φ in field to match Cast #469

RIVETS 3/4" UNLESS NOTED
HOLES 13/16"φ UNLESS NOTED

Required List		
1	Pinion Girder	11PG1

approx wt. = 4 tons

Reaming Note

Holes marked RT to be reamed to a 1" steel template.

Paint Note

Omit paint on shop and field contact surfaces.

PAINT: Yes (unless noted)
SHOP CONTACT SURFACES: No

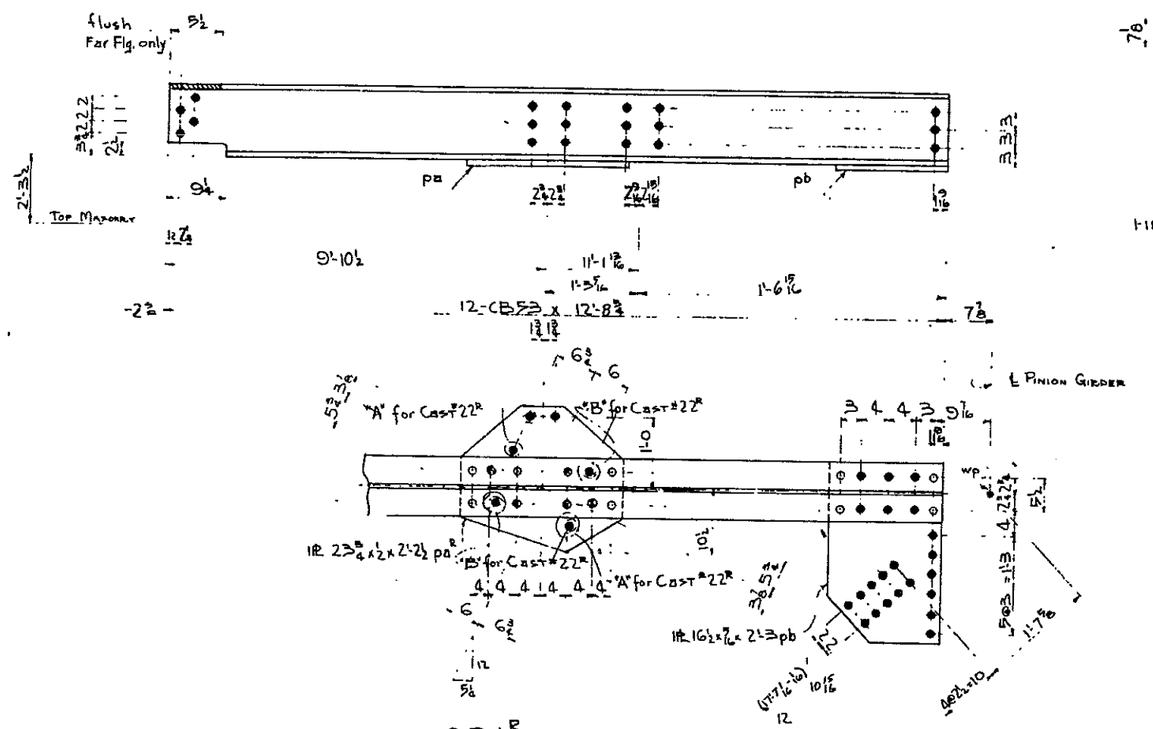
Pinion Girder
Swing Span Bridge
over Savannah River
Chatham Co. Ga., & Jasper Co. S.C.

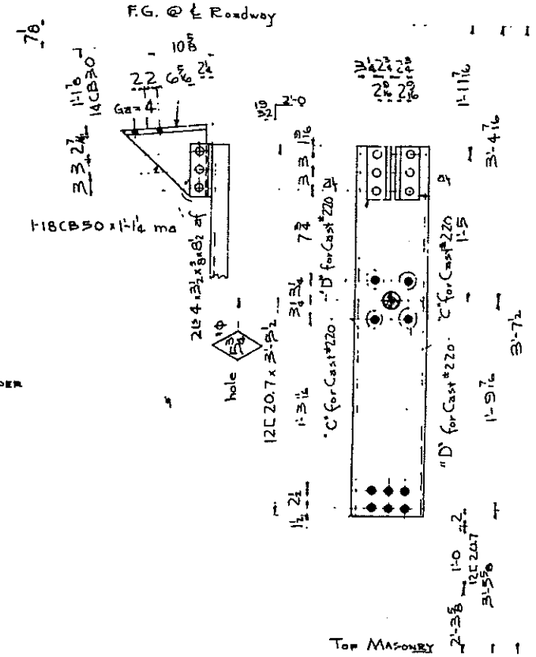
AMERICAN BRIDGE
UNITED STATES STEEL COMPANY

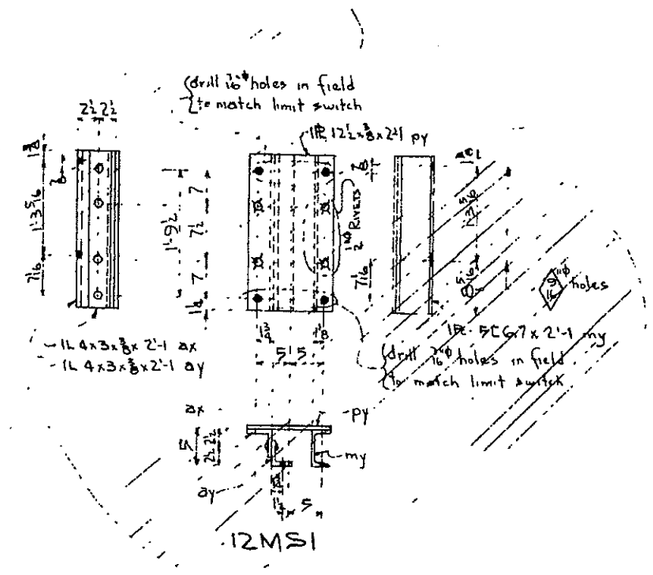
F	
E	
D	
C	
B	
X	
REVISIONS	

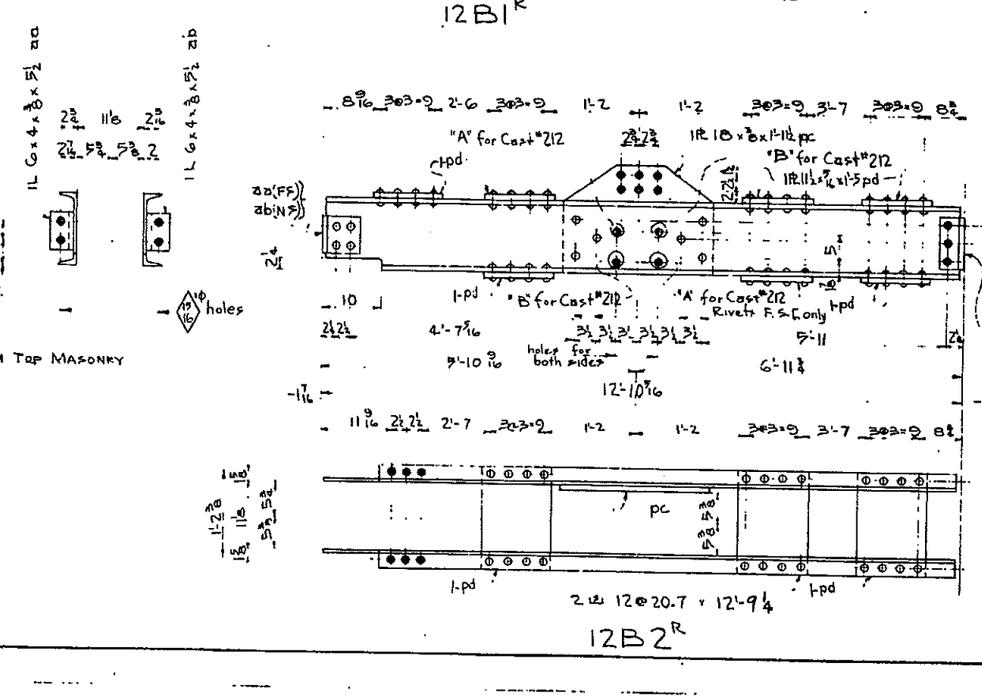
DRAWINGS MADE AT Birmingham PLANT
WORK FABRICATED AT Birmingham PLANT
IN CHARGE OF C.F. Harris
DRAW. MADE BY J.D.M. DATE
DRAW. CHECKED BY [illegible] DATE 8/13
ORDER No. [illegible]
SHEET No. 11

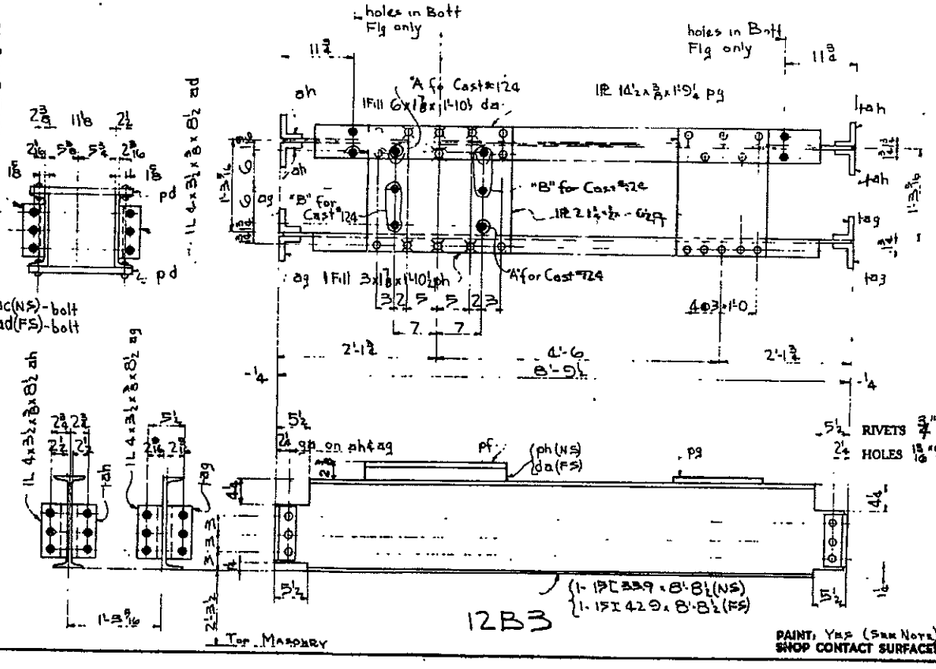
REQUIRED		
1	BEAM	12B1R
1	BEAM	12B1L
1	BEAM	12B2R
1	BEAM	12B2L
1	BEAM	12B3
2	HANGERS	12H1











HOLE MARKINGS

Holes marked "A" to be sub-drilled 11/16" ϕ in shop and drilled 13/16" ϕ in field.
Holes marked "B" to be drilled 13/16" ϕ in field.
Holes marked "C" to be sub-drilled 9/16" ϕ in shop and drilled 13/16" ϕ in field.
Holes marked "D" to be drilled 13/16" ϕ in field.

PAINT NOTE

Surfaces to be riveted in contact either in shop or field shall not be painted.

BEAMS, HANGERS, & MACHINERY SUPPORTS

SWING SPAN BRIDGE

OVER SAVANNAH RIVER
CHATHAM CO. GA. & JASPER CO. S.C.

RIVETS ¾" ϕ UNLESS NOTED
HOLES 13/16" ϕ UNLESS NOTED

AMERICAN BRIDGE
DIVISION OF UNITED STATES STEEL CORPORATION

DRAWINGS MADE AT BIRMINGHAM PLANT
WORK FABRICATED AT BIRMINGHAM PLANT
IN CHARGE OF C.F. HARRIS
DRAW. MADE BY J.D.M. DATE
DRAW. CHECKED BY DATE 8-77

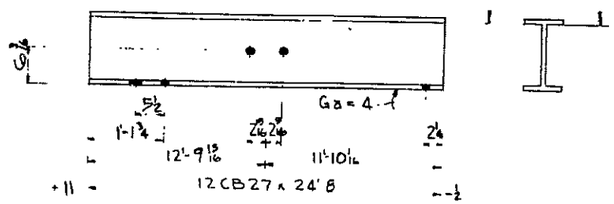
REVISIONS	
F	
E	
D	
C	
B	
X	

ORDER No. Q 4003
SHEET No. 12

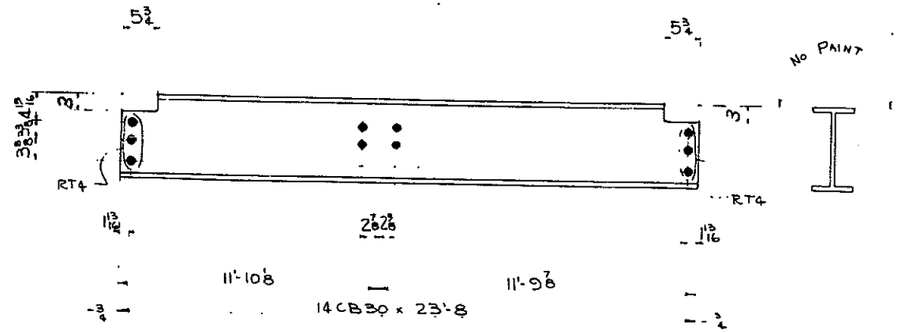
PAINT: YES (SEE NOTE)
SHOP CONTACT SURFACES: NO

Mk. No. #3-5

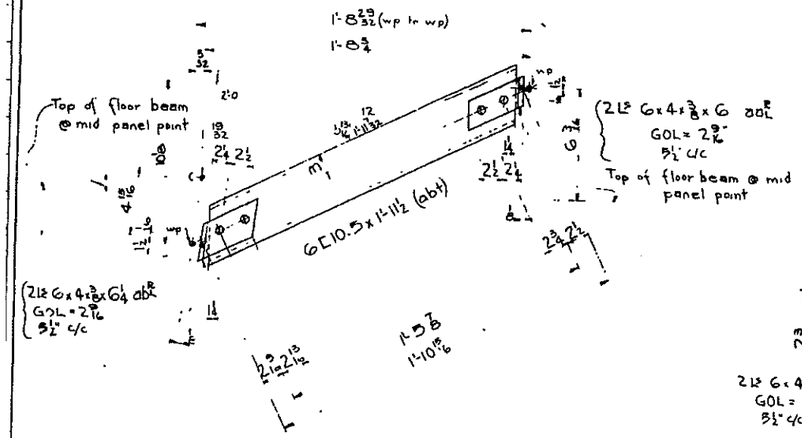
REQUIRED		
4	STRINGERS	13S1
16	do	13S3
14	do	13S7
12	do	13S5
10	STRUTS	13S2R
10	do (LEFT)	13S2L
10	do	13S4R
10	do (LEFT)	13S4L
10	do	13S6R
10	do (LEFT)	13S6L
21	do	13S8



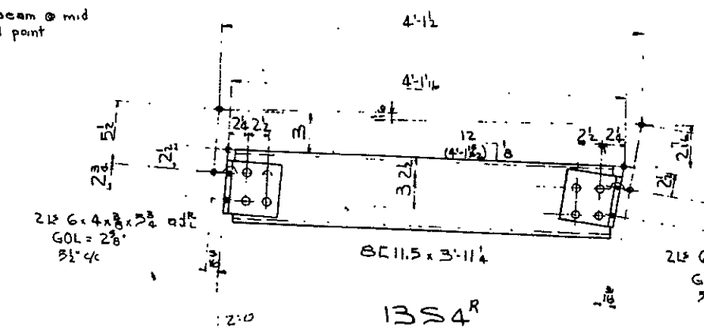
13S1



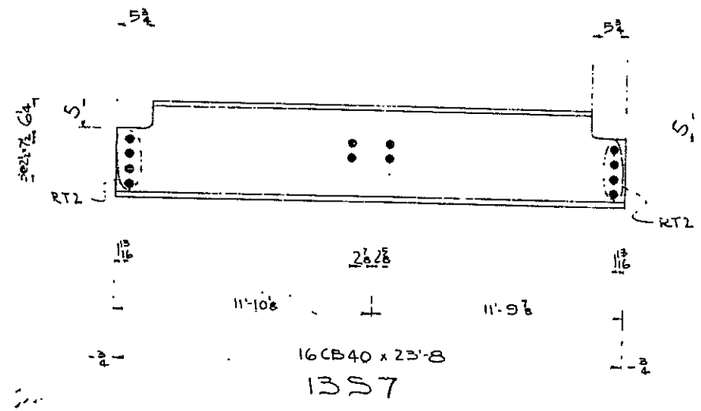
13S3



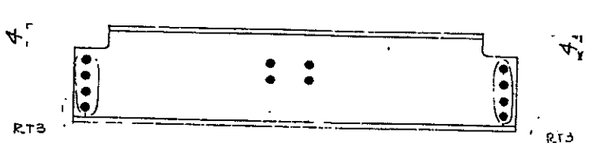
13S2R



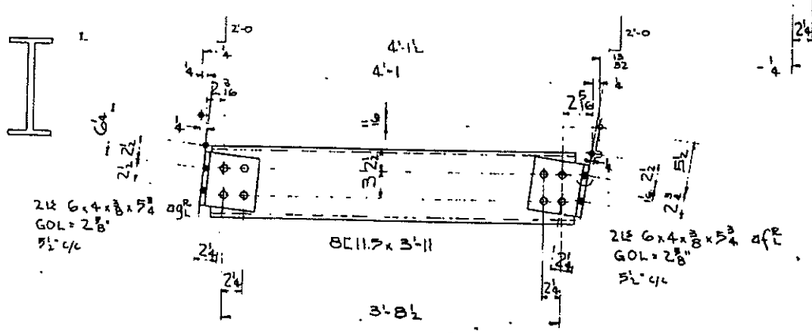
13S4R



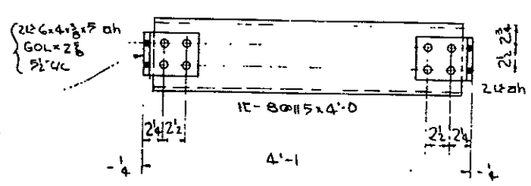
13S7



13S5



13S6R



13S8

REAMING NOTE:

Holes marked RT to be reamed to a 1" steel template.

PAINT NOTE:

Surfaces to be riveted in contact either in shop or field shall not be painted.

STRINGERS & STRUTS
SWING SPAN BRIDGE
OVER SAVANNAH RIVER
CHATHAM CO. GA. & JASPER CO. S.C.

AMERICAN BRIDGE
DIVISION
UNITED STATES STEEL COMPANY

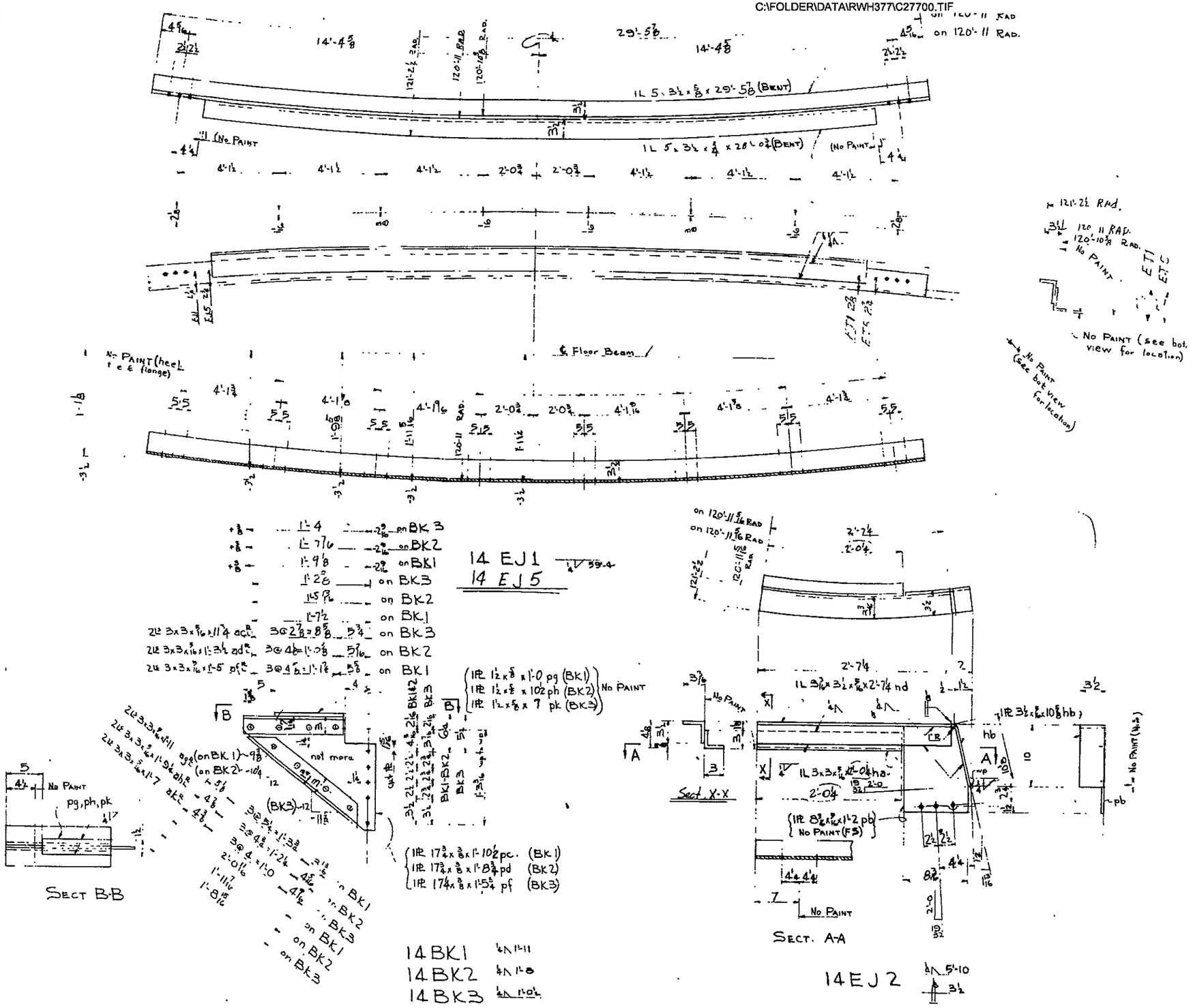
RIVETS 3/4" ϕ UNLESS NOTED
HOLES 13/16" ϕ UNLESS NOTED

PAINT: YES (UNLESS NOTED)
SHOP CONTACT SURFACES: NO.

F	
E	
D	
C	
B	
X	12-22-17
REVISIONS	

DRAWINGS MADE AT BIRMINGHAM PLANT
WORK FABRICATED AT BIRMINGHAM PLANT
IN CHARGE OF C.F. HARRIS
DRAW. MADE BY J.D.M. DATE
DRAW. CHECKED BY C.L.T. DATE 8-13

ORDER No. Q4003
SHEET No. 13



Required		
1	Expansion Joints	14EJ1
2	Expansion Joints	14EJ2R
2	Expansion Joints	14EJ2L (Left)
4	Brackets	14BK1
4	Brackets	14BK2
4	Brackets	14BK3
4	Brackets	14BK4
1	Expansion Joint	14EJ5

Paint Note:
Surfaces to be riveted or welded in contact either in shop or field shall not be painted.

Expansion Joint
Swing Span Bridge
over Savannah River
Chatham County, Ga. & Jasper County, S.C.

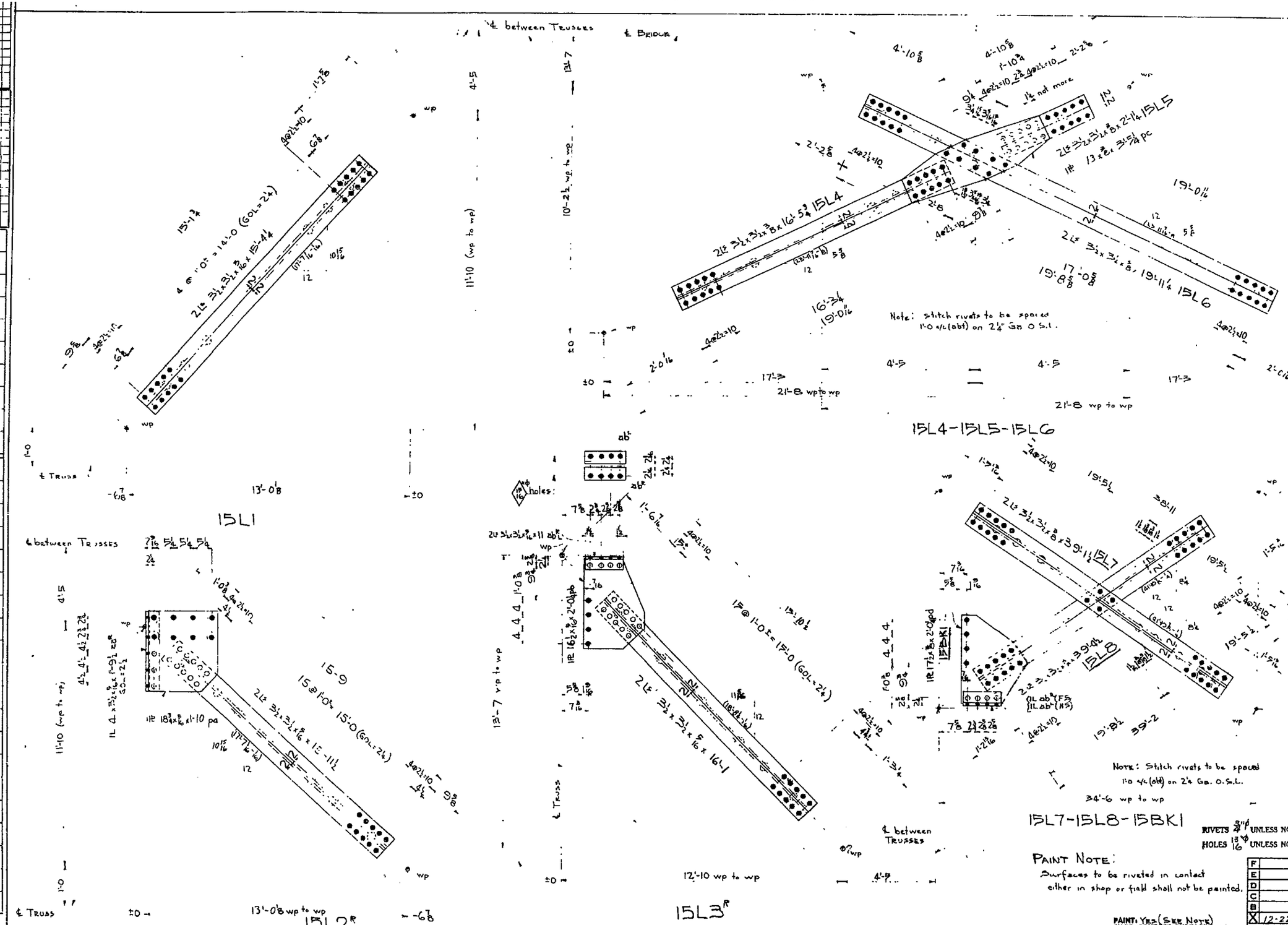
AMERICAN BRIDGE
UNITED STATES STEEL COMPANY

DRAWINGS MADE AT Birmingham PLANT
WORK FABRICATED AT Birmingham PLANT
IN CHARGE OF C.F. Harris
DRAW. MADE BY J.D.M. DATE
DRAW. CHECKED BY CLH DATE 8/1/3

RIVETS ¾"φ UNLESS NOTED
HOLES 15/16"φ UNLESS NOTED
PAINT: Yes (UNLESS SHOWN)
SHOP CONTACT SURFACES: No.

REVISIONS	
F	
E	
D	
C	
B	
X	12-22

ORDER No. Q 4003
SHEET No. 14



REQUIRED		
2	DIAGONALS	15L1
1	do	15L2
1	do (LEFT)	15L2
1	do	15L3
1	do (LEFT)	15L3
1	do	15L4
1	do	15L5
1	do	15L6
4	do	15L7
2	do	15L8
2	BRACKETS	15BK1

BRACING
SWING SPAN BRIDGE
OVER SAVANNAH RIVER
CHATHAM CO GA & JASPER CO. SC.

RIVETS 3/4" ⌀ UNLESS NOTED
HOLES 13/16" ⌀ UNLESS NOTED

AMERICAN BRIDGE
DIVISION
UNITED STATES STEEL CORPORATION

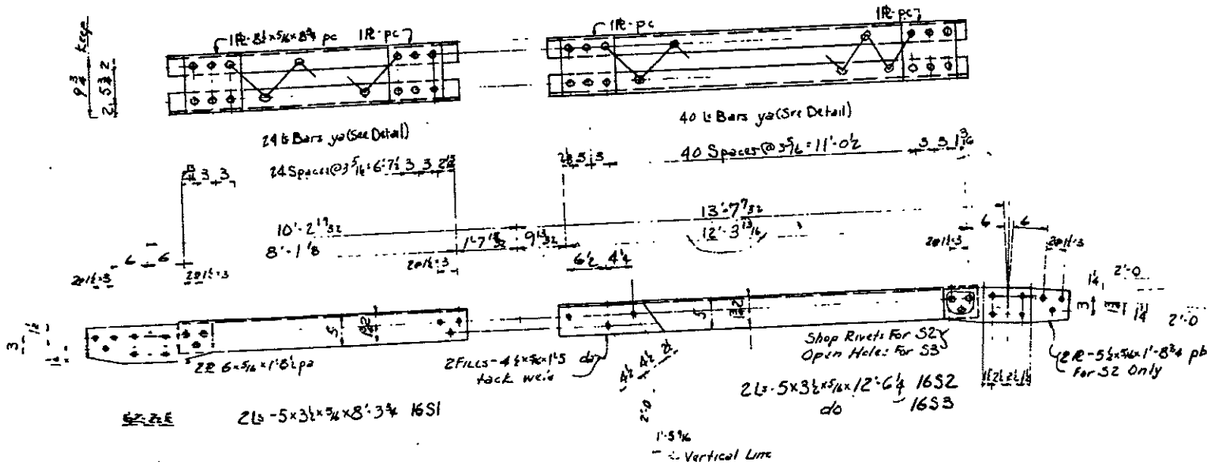
DRAWINGS MADE AT BIRMINGHAM PLANT
WORK FABRICATED AT BIRMINGHAM PLANT
IN CHARGE OF C.F. HARRIS
DRAW. MADE BY J.D.M. DATE
DRAW. CHECKED BY DATE 8/13

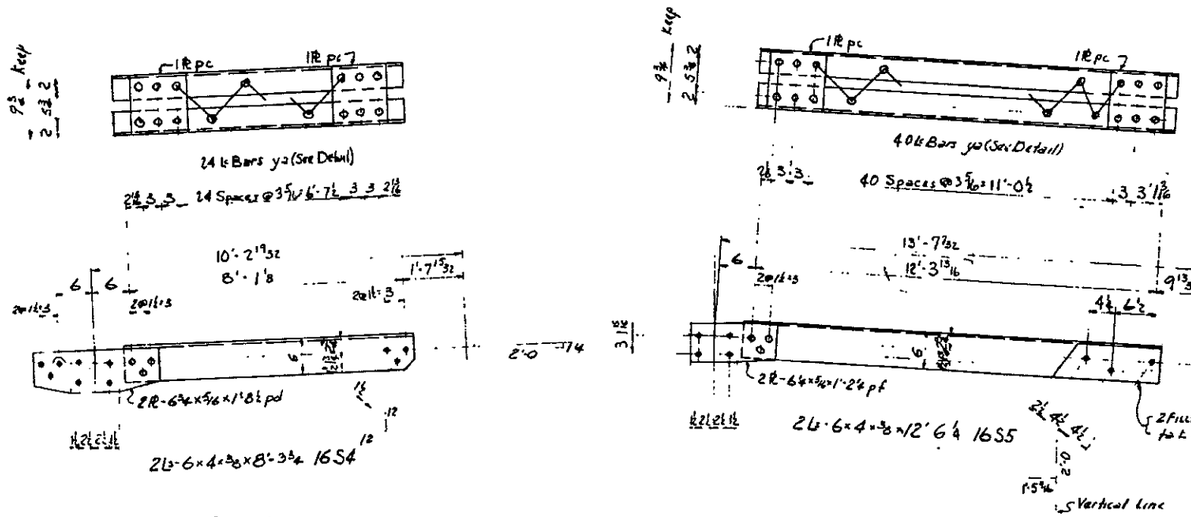
PAINT NOTE:
Surfaces to be riveted in contact either in shop or field shall not be painted.

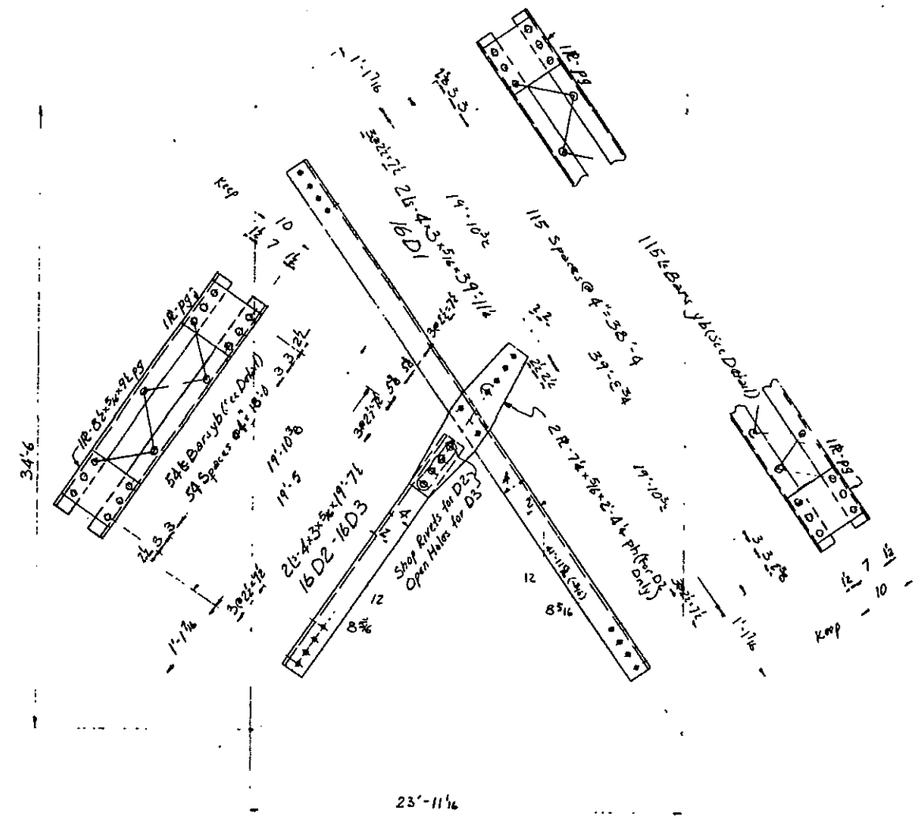
PAINT: YES (SEE NOTE)
SHOP CONTACT SURFACES: No.

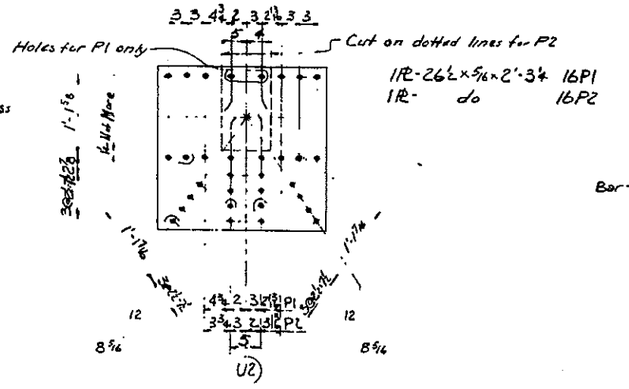
REVISIONS	
F	
E	
D	
C	
B	
X	12-22

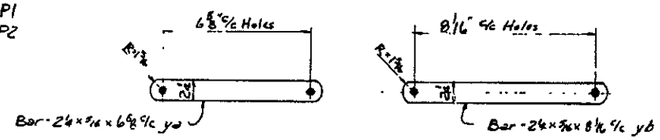
ORDER No. Q4003
SHEET No. 15











DETAIL OF LACING BARS

No.	Required List	Mark
3	Struts	16S1
1	do	16S2
1	do	16S3
1	do	16S4
1	do	16S5
4	Top Laterals	16D1
4	do	16D2
4	do	16D3
4	Lateral Plates	16P1
4	do	16P2

PAINT NOTE:
Surfaces to be riveted in contact either in the shop or in the field shall not be painted.

REAMING NOTE:
All holes in material ¾" thick or less and forming a part of the section of main members shall be subpunched 1/16" small and reamed to size while the parts are securely bolted together. Holes may be punched full size in material used in lateral, longitudinal & sway bracing, lacing bars, stay plates & diaphragms. Holes in material greater than ¾" thick to be drilled.
The trusses are to be completely assembled in the shop, reamed & matchmarked. Holes for floor beam & stringer connections to be reamed to a steel templet 1" thick.

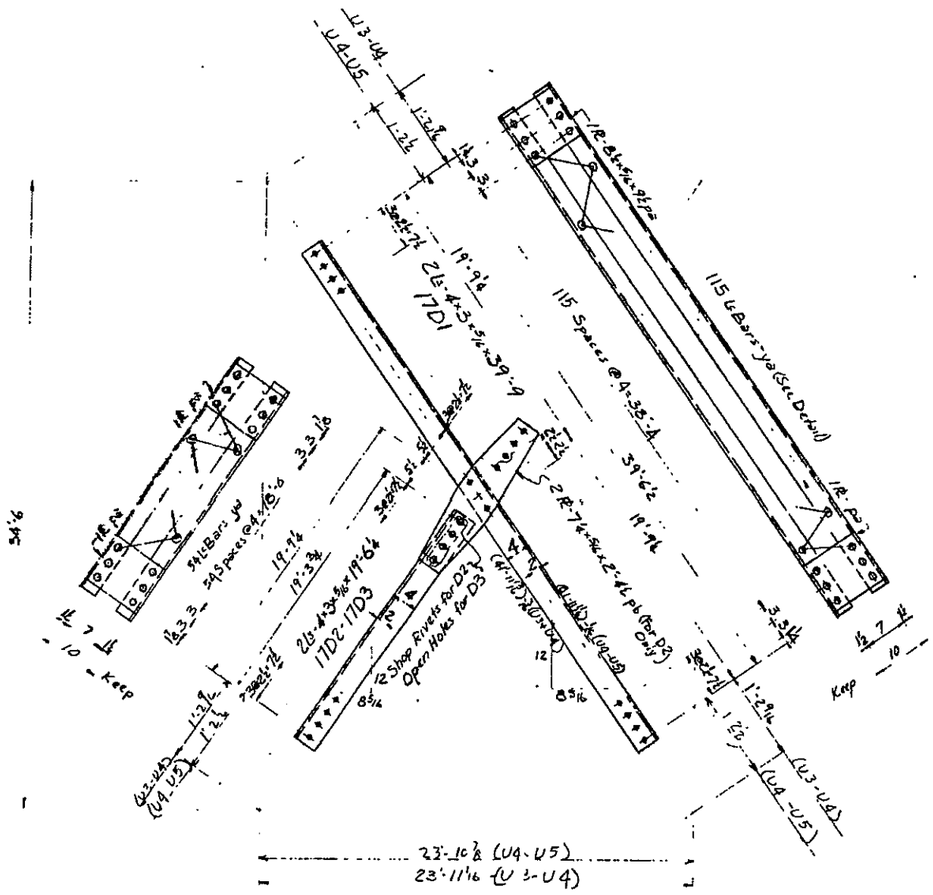
STRUTS, LATERALS & PLATES
SWING SPAN BRIDGE OVER SAVANNAH RIVER
CHATHAM COUNTY, GA. & JASPER COUNTY, S.C.

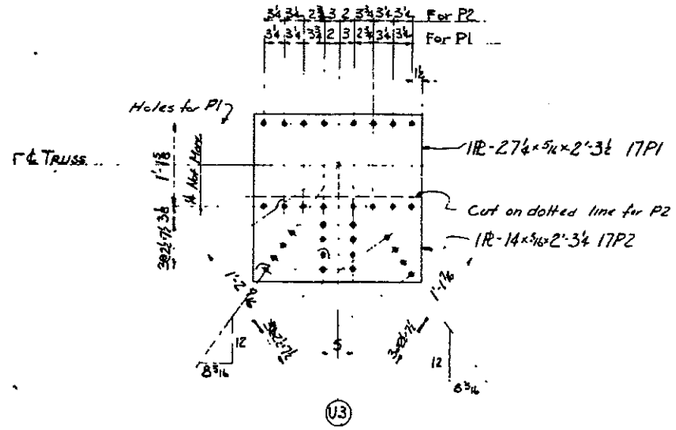
AMERICAN BRIDGE
DIVISION
UNITED STATES STEEL CORPORATION

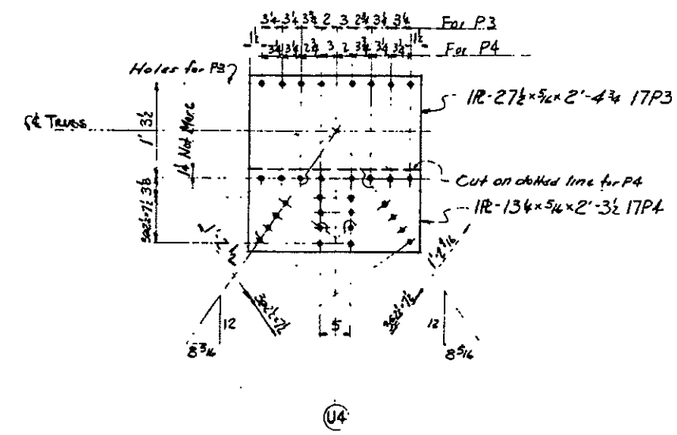
RIVETS ¾" ⌀ UNLESS NOTED
HOLES 13/16" ⌀ UNLESS NOTED
PAINT: YES (SEE PAINT NOTE)
SHOP CONTACT SURFACES: NO

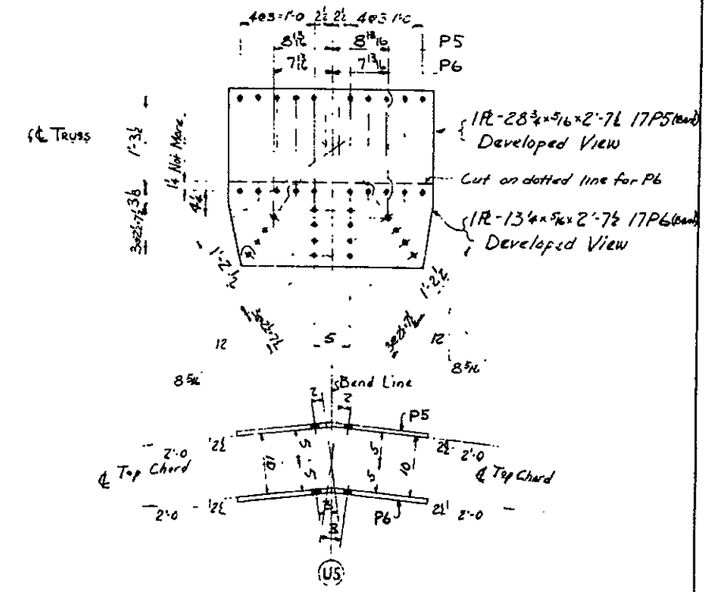
F	
E	
D	
C	
B	
X	12-24 (2)
REVISIONS	

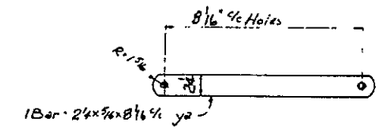
DRAWINGS MADE AT. BIRMINGHAM PLANT
WORK FABRICATED AT BIRMINGHAM PLANT
IN CHARGE OF C.E. HARRIS
DRAW. MADE BY. CARP DATE 6-30-53
DRAW. CHECKED BY. " DATE 8-1-53
ORDER No. Q-4003
SHEET No. 16



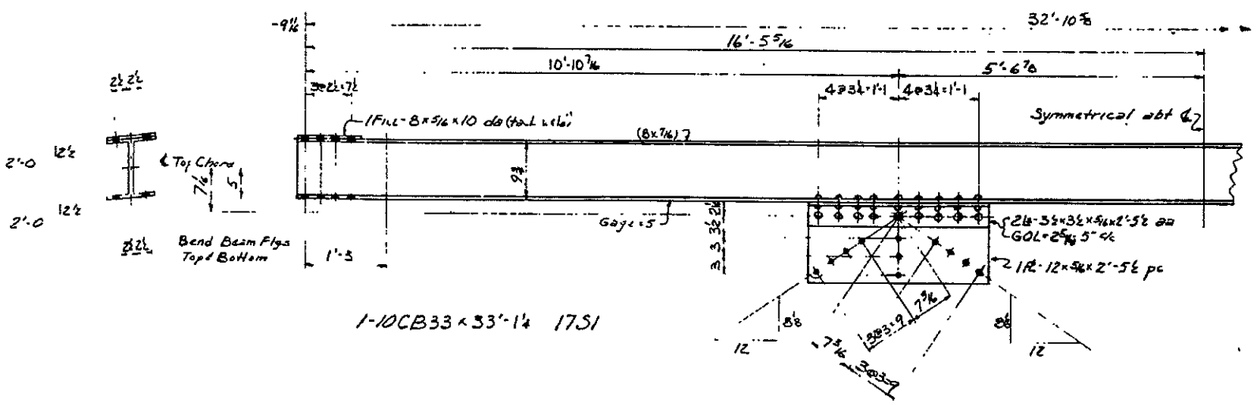








DETAIL OF LACING BAR



No.	Required List	Mark
4	Top Laterals	17D1
4	do	17D2
4	do	17D3
4	Lateral Plates	17P1
4	do	17P2
4	do	17P3
4	do	17P4
2	do	17P5
2	do	17P6
2	Struts	17S1

RIVETS ¾" ⌀ UNLESS NOTED
HOLES 13/16" ⌀ UNLESS NOTED

PAINT NOTE:
Surfaces to be riveted in contact either in the shop or in the field shall not be painted.

PAINT: YES (SEE PAINT NOTE)
SHOP CONTACT SURFACES: NO

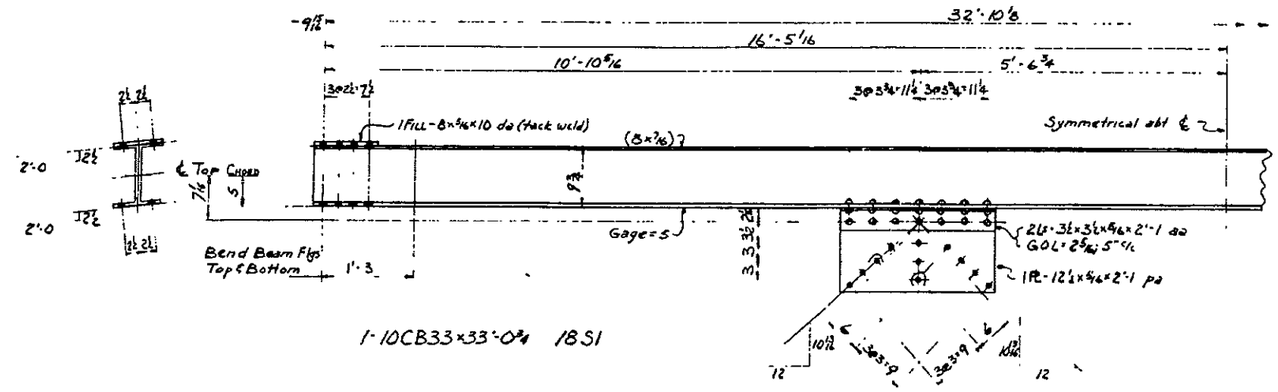
STRUTS, LATERALS & PLATES
SWING SPAN BRIDGE OVER SAVANNAH R.
CHATHAM COUNTY, GA. & JASPER COUNTY, S.C.

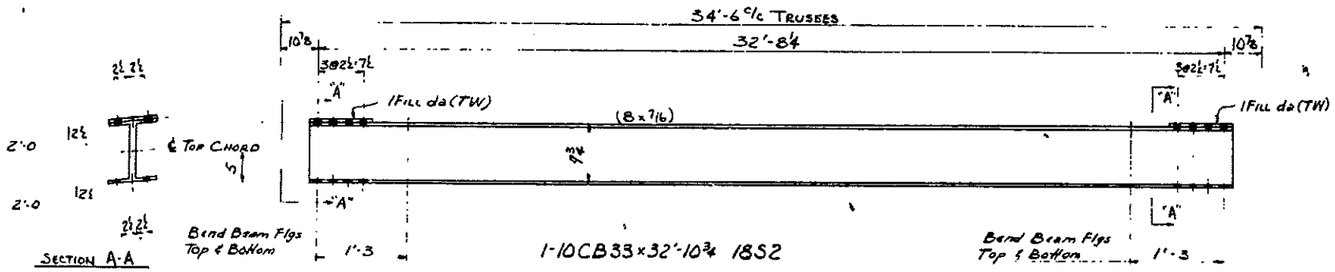
AMERICAN BRIDGE
DIVISION
UNITED STATES STEEL CORPORATION

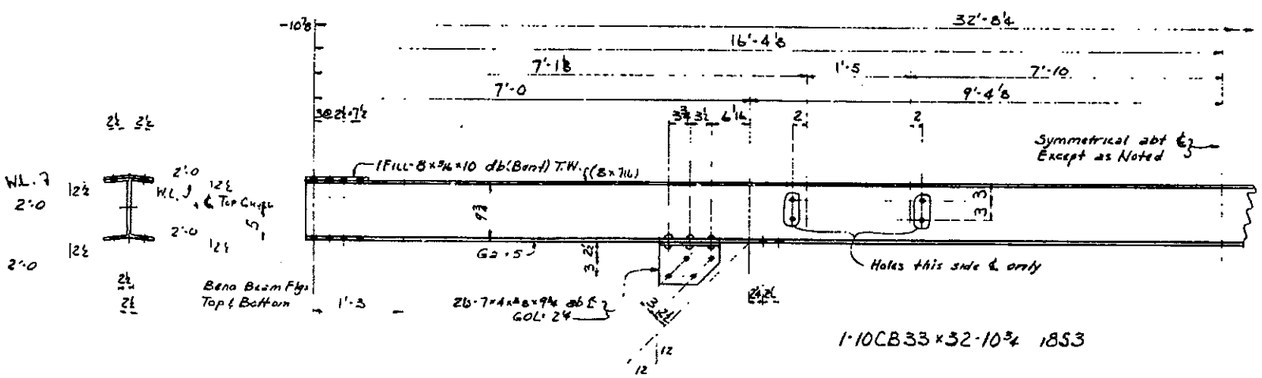
DRAWINGS MADE AT BIRMINGHAM PLANT
WORK FABRICATED AT BIRMINGHAM PLANT
IN CHARGE OF C.F. HARRIS
DRAW. MADE BY CARY DATE 7-2-53
DRAW. CHECKED BY VH DATE 8-16-53

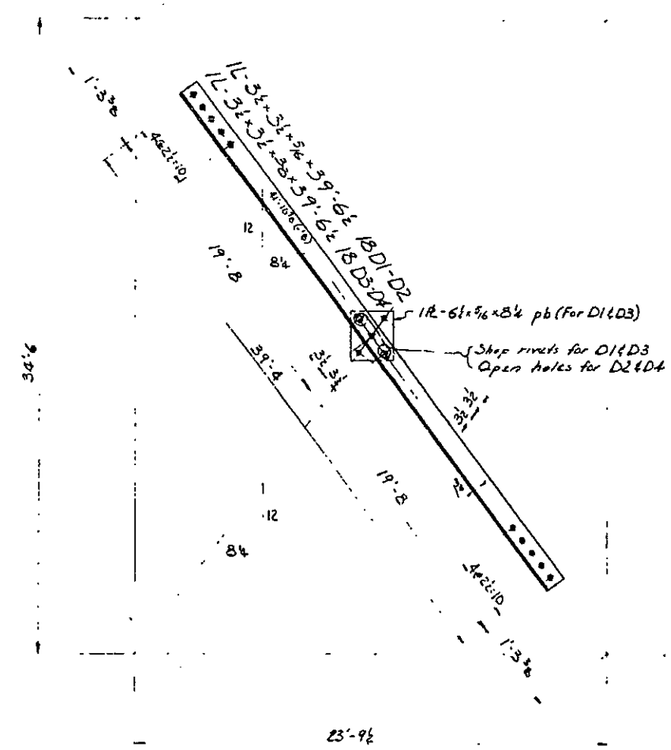
F	
E	
D	
C	
B	
X	12-22 (1)
REVISIONS	

ORDER No. Q-4003
SHEET No. 17









No.	Required List	Mark
2	Struts	18S1
2	do	18S2
1	do	18S3
4	Laterals	18D1
4	do	18D2
2	do	18D3
2	do	18D4

Paint Note:
Surfaces to be riveted in contact either in the shop or in the field shall not be painted.

Struts & Laterals
Swing Span Bridge Over Savannah River
Chatham County, Ga. & Jasper County, S.C.

AMERICAN BRIDGE
DIVISION
UNITED STATES STEEL CORPORATION

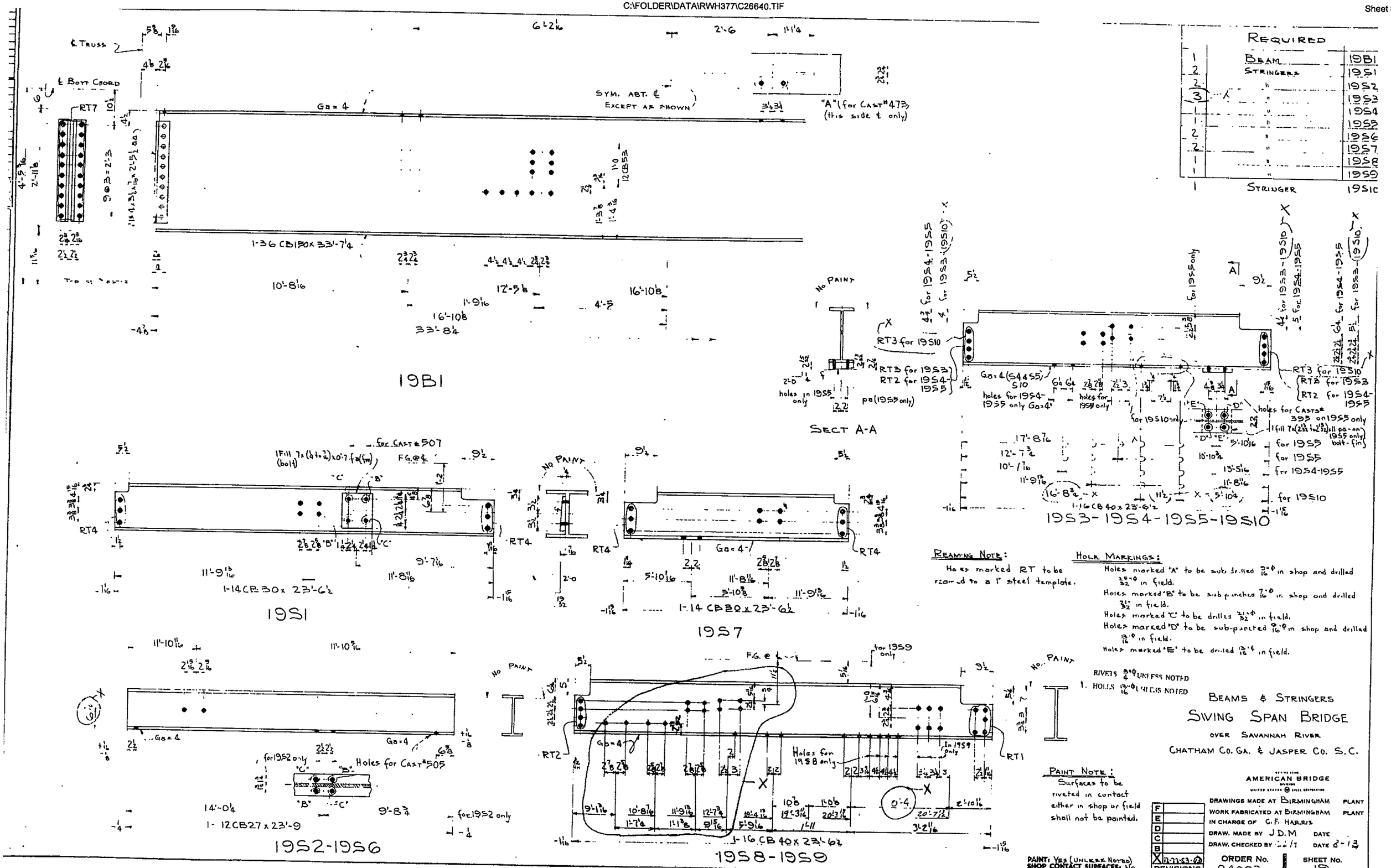
RIVETS ¾" ⌀ UNLESS NOTED
HOLES 13/16" ⌀ UNLESS NOTED

PAINT: Yes (See Paint Note)
SHOP CONTACT SURFACES: No

REVISIONS	
F	
E	
D	
C	
B	
X	

DRAWINGS MADE AT Birmingham PLANT
WORK FABRICATED AT Birmingham PLANT
IN CHARGE OF C.F. Harris
DRAW. MADE BY Cary DATE 7-3-53
DRAW. CHECKED BY [illegible] DATE [illegible]

ORDER No. Q-4005
SHEET No. 18



Required		
1	Beam	19B1
2	Stringers	19S1
2	"	19S2
3	"	19S3
1	"	19S4
1	"	19S5
2	"	19S6
2	"	19S7
1	"	19S8
1	"	19S9
1	Stringer	19S10

Reaming Note:
Holes marked RT to be reamed to a 1" steel template.

Hole Markings:
Holes marked "A" to be sub drilled 9/16"φ in shop and drilled 25/32"φ in field.
Holes marked "B" to be sub punched 7/16"φ in shop and drilled 21/32" in field.
Holes marked "C" to be drilled 21/32"φ in field.
Holes marked "D" to be sub-punched 9/16"φ in shop and drilled 13/16"φ in field.
Holes marked "E" to be drilled 13/16"φ in field.

RIVETS 3/4"φ UNLESS NOTED
HOLES 13/16"φ UNLESS NOTED

Paint Note:
Surfaces to be riveted in contact either in shop or field shall not be painted.

Beams & Stringers
Swing Span Bridge
over Savannah River
Chatham Co. Ga. & Jasper Co. S.C.

AMERICAN BRIDGE
UNITED STATES STEEL CORPORATION

DRAWINGS MADE AT Birmingham PLANT
WORK FABRICATED AT Birmingham PLANT
IN CHARGE OF C.F. Harris
DRAW. MADE BY J.D.M DATE
DRAW. CHECKED BY [illegible] DATE 8-13

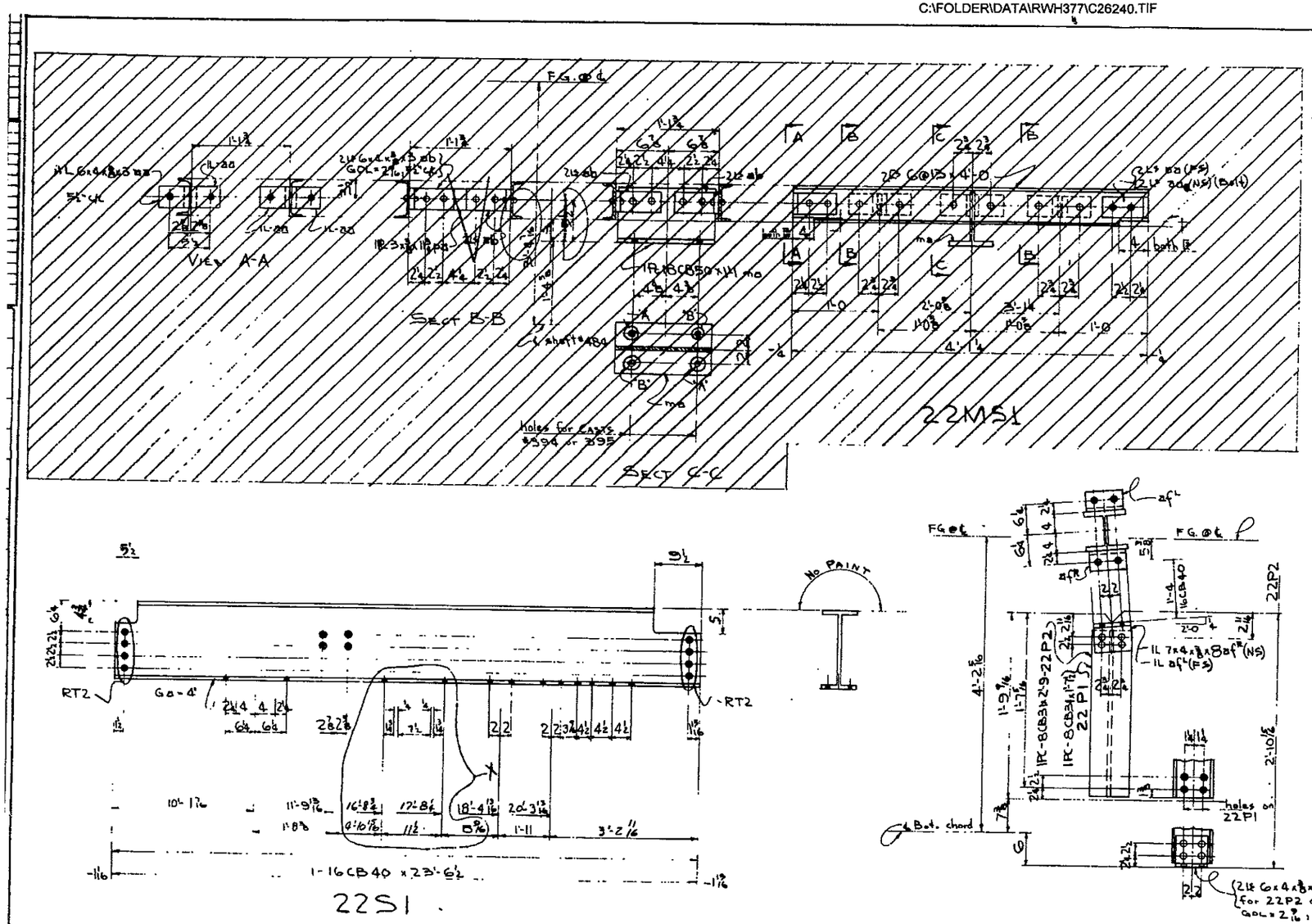
F	
E	
D	
C	
B	
X	11-22-53

REVISIONS

PAINT: Yes (Unless Noted)
SHOP CONTACT SURFACES: No

ORDER No. 04003
SHEET No. 19

	REQUIRED	
2	POSTS	22P1
2	POSTS	22P2
1	STRINGER	22S1
1	BEAM	22B1
1	BEAM (AS SHOWN)	22B2
1	BEAM LEFT	22B3
1	BEAM (AS SHOWN)	22B4



REAMING NOTE:

Holes marked RT to be reamed to a 1" steel template.

HOLE MARKINGS

Holes marked "A" to be sub-drilled 9/16"ϕ in shop and drilled 13/16"ϕ in field.

Holes marked "B" to be drilled 13/16"ϕ in field.

Holes marked "C" to be sub-drilled 11/16"ϕ in shop and drilled 13/16"ϕ in field.

Holes marked "D" to be drilled 13/16"ϕ in field.

PAINT NOTE

Surfaces to be riveted in contact either in shop or field shall not be painted.

RIVETS 3/4"ϕ UNLESS NOTED
HOLES 13/16"ϕ UNLESS NOTED

PAINT: YES (UNLESS NOTED)
SHOP CONTACT SURFACES: NO

MACHINE SUPPORTS - STRINGERS - BEAMS & POSTS

SWING SPAN BRIDGE

OVER SAVANNAH RIVER

CHATHAM CO. GA. & JASPER CO. S.C.

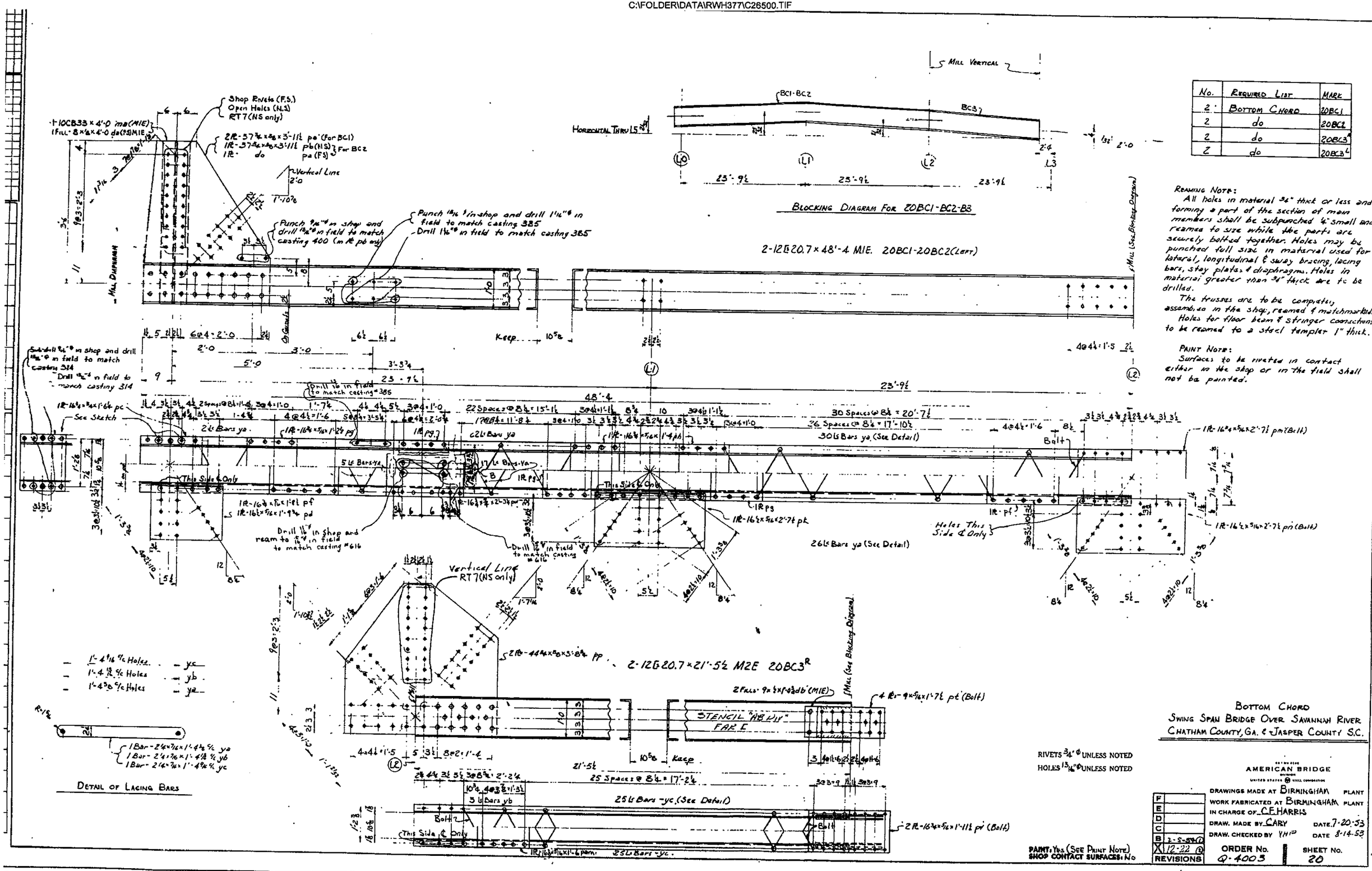
AMERICAN BRIDGE DIVISION
UNITED STATES STEEL CORPORATION

F		
E		
D		
C		
B		
X	12-22-53	
REVISIONS		

DRAWINGS MADE AT BIRMINGHAM PLANT
WORK FABRICATED AT BIRMINGHAM PLANT
IN CHARGE OF C.F. HARRIS
DRAW. MADE BY J.D.M. DATE
DRAW. CHECKED BY C.L.H DATE 3-14

ORDER No. Q-4008

SHEET No. 22

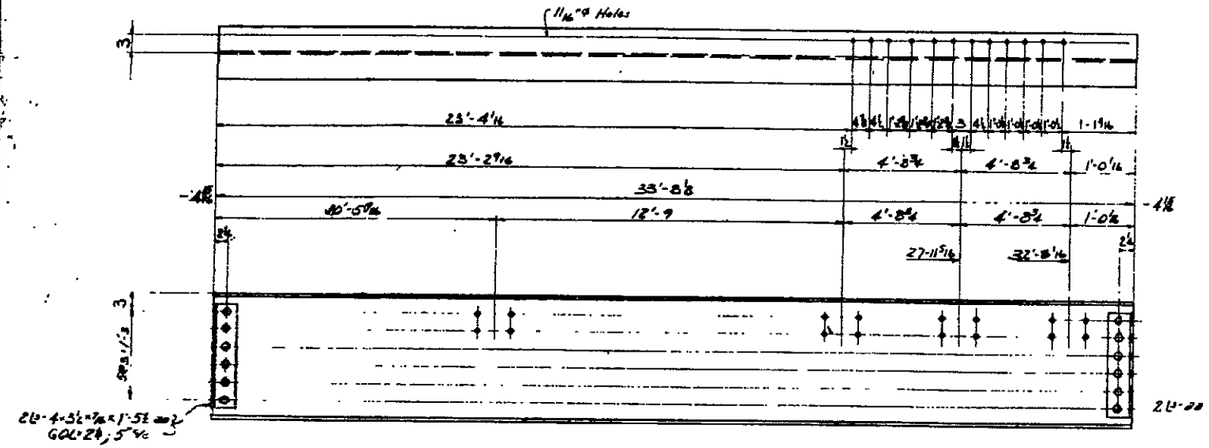


No.	Required List	Mark
2	Bottom Chord	20BC1
2	do	20BC2
2	do	20BC3R
2	do	20BC3L

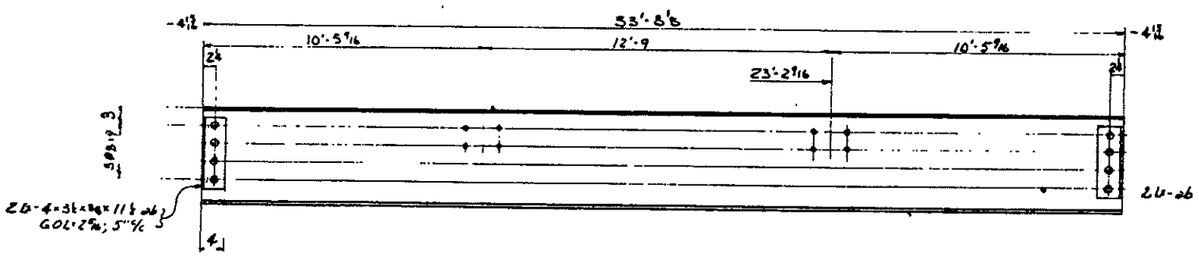
Reaming Note:
All holes in material ¾" thick or less and forming a part of the section of main members shall be subpunched ¼" small and reamed to size while the parts are securely bolted together. Holes may be punched full size in material used for lateral, longitudinal & sway bracing, lacing bars, stay plates & diaphragms. Holes in material greater than ¾" thick are to be drilled.

The trusses are to be completely assembled in the shop, reamed & matchmarked. Holes for floor beam & stringer connections to be reamed to a steel templet 1" thick.

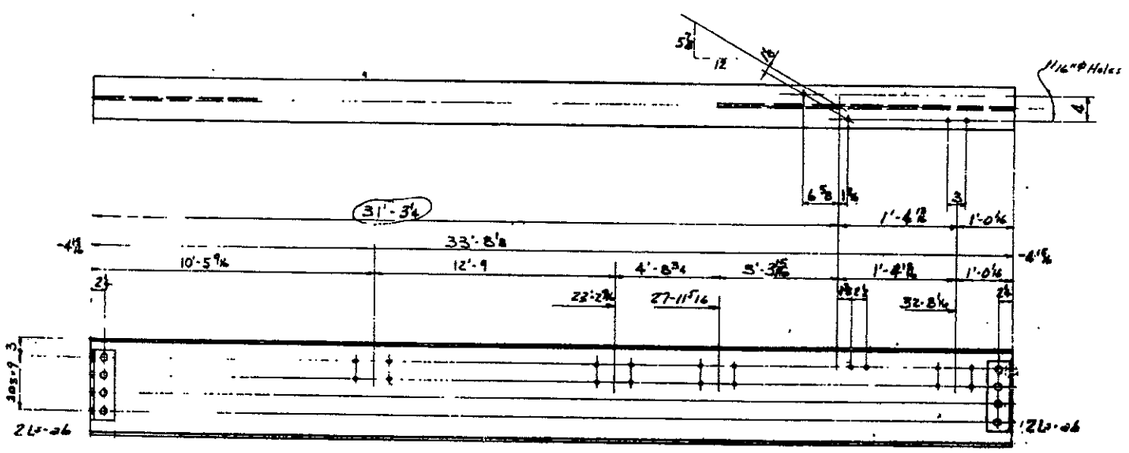
Paint Note:
Surfaces to be riveted in contact either in the shop or in the field shall not be painted.



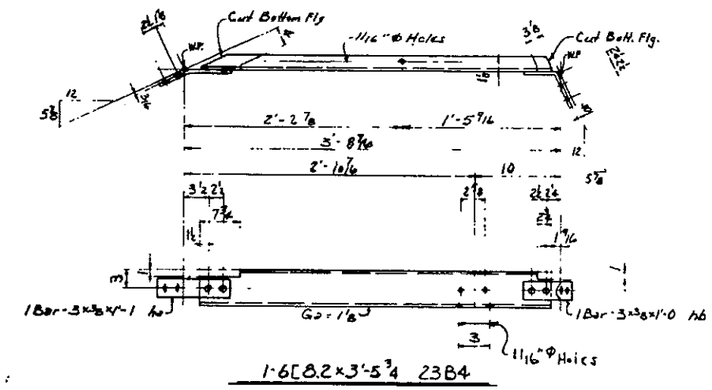
1-21CB82×33'-7¼ 23B1 (Cambered-See Sketch)



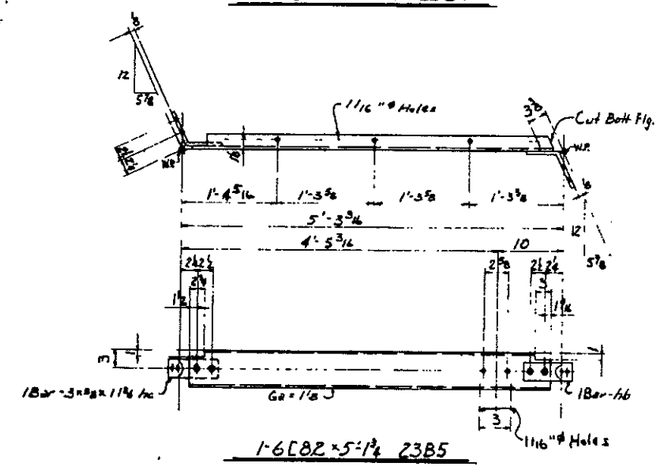
1-16CB40×33'-7¼ 23B2 (Cambered-See Sketch)



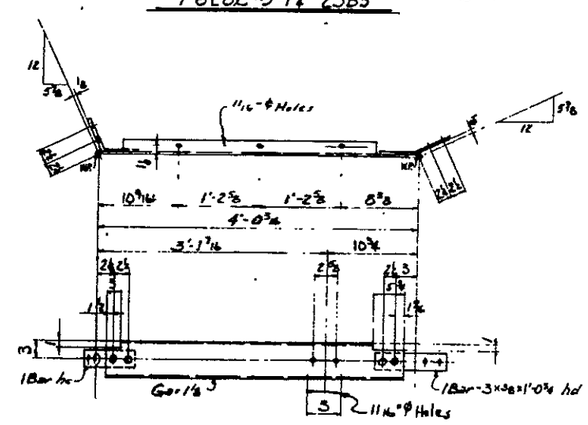
1-16CB40×33'-7¼ 23B3 (Cambered-See Sketch)



1-6[8.2×3'-5¾ 23B4

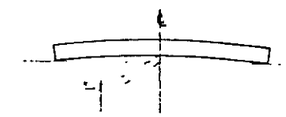


1-6[8.2×5'-1¾ 23B5



1-6[8.2×3'-10 23B6

No.	Required List	Mark
1	Beam	23B1
1	do	23B2
1	do	23B3
1	do	23B4
1	do	23B5
1	do	23B6



Camber Diagram For 23B1-B2-B3

Paint Note:
Surfaces to be riveted in contact either in the shop or in the field shall not be painted.

Control House Floor Beams
Swing Span Bridge Over Savannah River
Chatham County, Ga. & Jasper County, S.C.

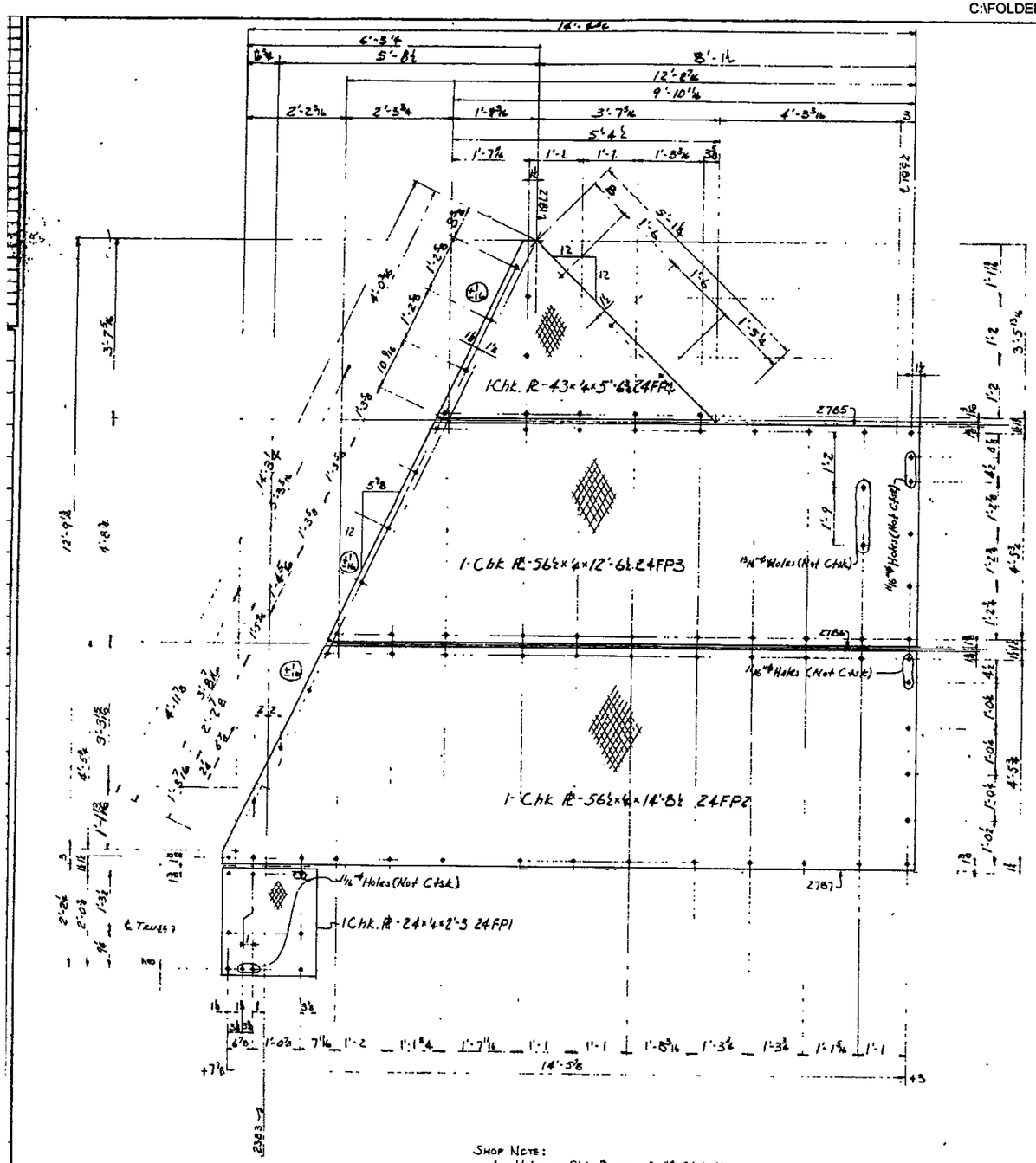
AMERICAN BRIDGE
DIVISION
UNITED STATES STEEL CORPORATION

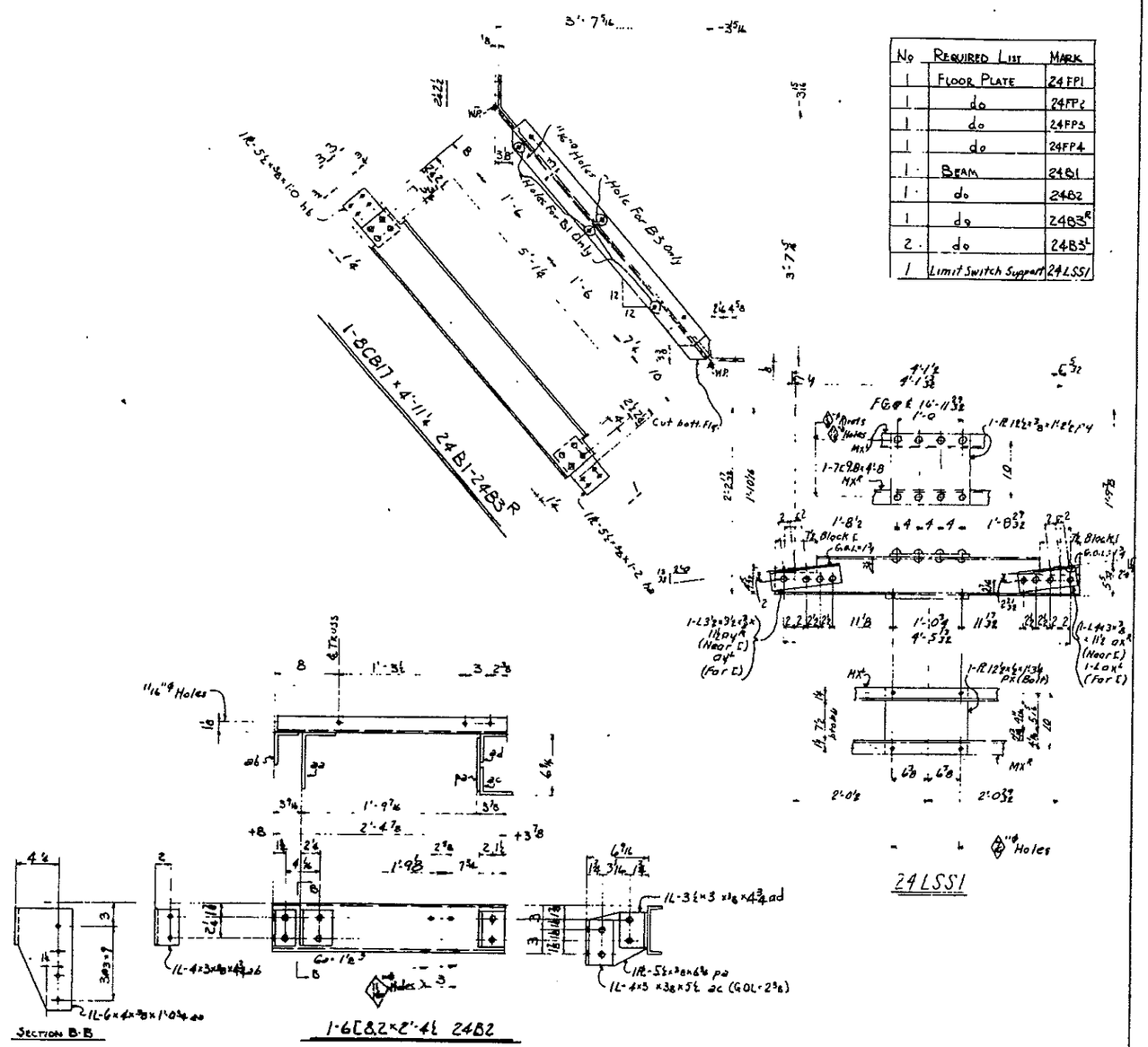
Rivets ¾"φ unless noted
Holes 11/16"φ unless noted

Paint: Yes (See Paint Note)
Shop contact surfaces: No

Drawings made at	Birmingham Plant
Work fabricated at	Birmingham Plant
In charge of	C.F. Harris
Draw. made by	Caby — Date 7-24-53
Draw. checked by	VHP — Date 8-14-53
Order No.	Q-4003
Sheet No.	23

F
E
D
C
B
X 1/8-18-53
Revisions





No	Required List	Mark
1	Floor Plate	24FP1
1	do	24FP2
1	do	24FP3
1	do	24FP4
1	Beam	24B1
1	do	24B2
1	do	24B3R
2	do	24B3L
1	Limit Switch Support	24LSS1

Shop Note:
All Holes in Chk. PL are 11/16"ϕ Ctsk N.S.
For ½"ϕ Ctsk Hd. Bolts Except as Noted

Floor Plates & Beams
Swing Span Bridge Over Savannah River
Chatham County, Ga & Jasper County, S.C.

American Bridge
United States Steel Corporation

Rivets 3/4"ϕ unless noted
Holes 13/16"ϕ unless noted

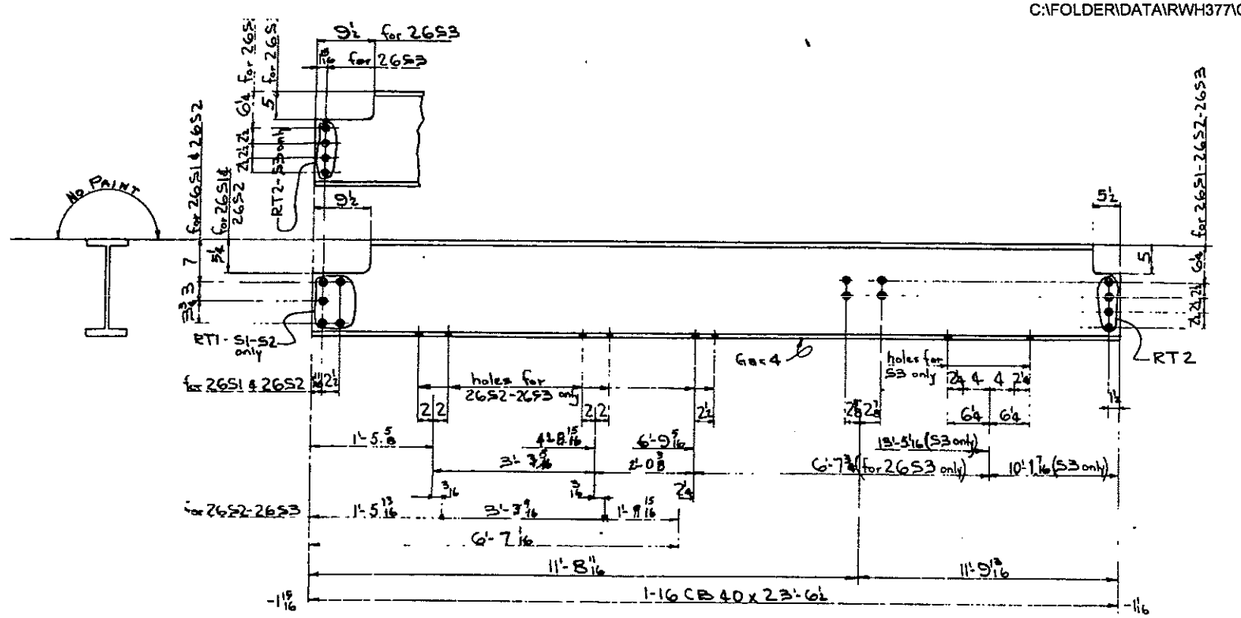
Paint Note:
Surfaces to be riveted in contact either in the shop or in the field shall not be painted

Paint: Yes (See Paint Note)
Shop Contact Surfaces: No

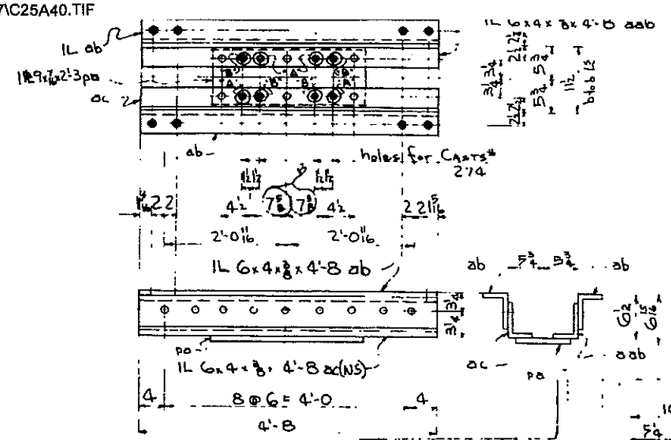
F	
E	
D	
C	
B	
X	12-23 (1)
Revisions	

Drawings made at Birmingham Plant
Work fabricated at Birmingham Plant
In charge of C.F. Harris
Draw. made by Cary Date 7-28-53
Draw. checked by VHP Date 8-14-53

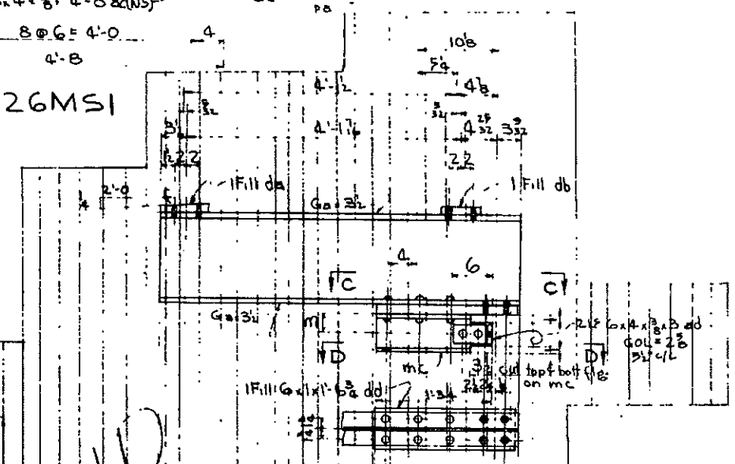
Order No. Q-4003
Sheet No 24



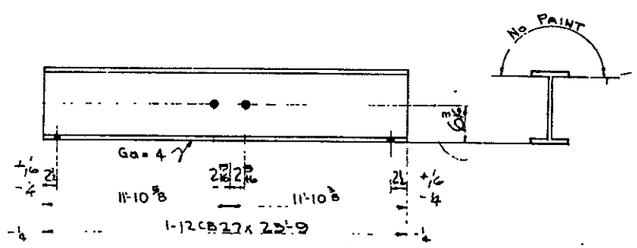
2651-2652-2653



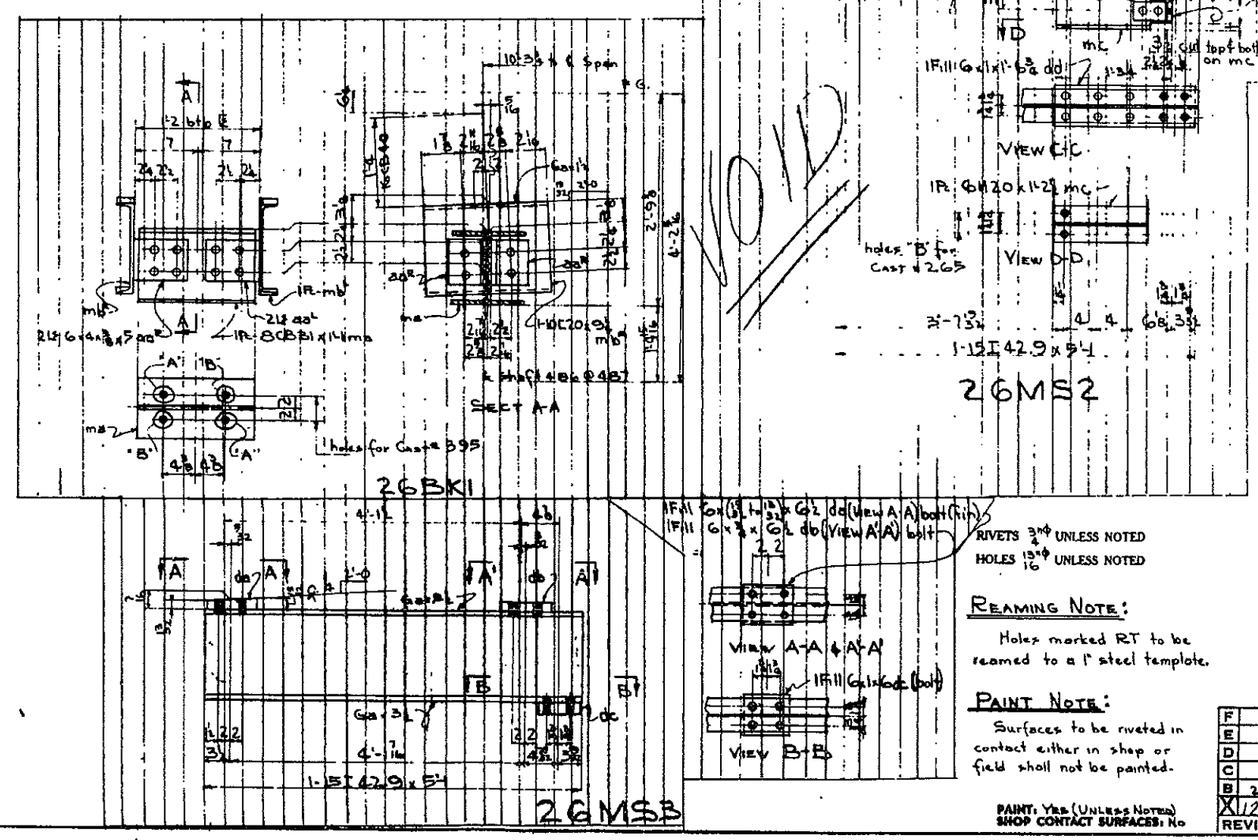
26MS1



26MS2

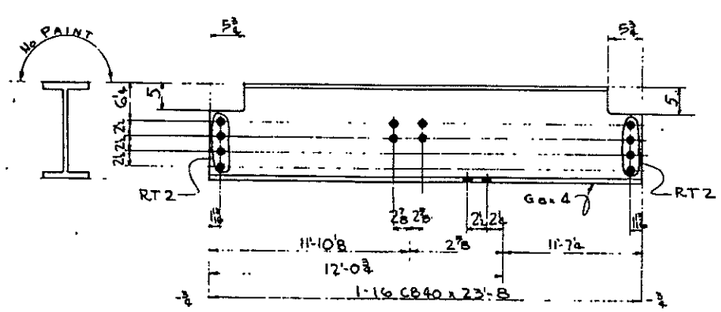


2654



26BK1

26MS3



2655

	REQUIRED	
1	STRINGER	2651
1	do	2652
1	do	2653
12	do	2654
12	do	2655
2	MACHINERY SUPPORTS	26MS1

HOLE MARKINGS:

Holes marked "A" to be sub-punched 3/16" in shop and drilled 13/16" in field.
Holes marked "B" to be drilled 13/16" in field.

RIVETS 3/4" UNLESS NOTED
HOLES 13/16" UNLESS NOTED

REAMING NOTE:

Holes marked RT to be reamed to a 1" steel template.

PAINT NOTE:

Surfaces to be riveted in contact either in shop or field shall not be painted.

PAINT: YES (UNLESS NOTED)
SHOP CONTACT SURFACES: No

STRINGERS - BRACKETS & MACHINE SUPPORTS
SWING SPAN BRIDGE
OVER SAVANNAH RIVER
CHATHAM CO. GA. & JASPER CO. S.C.

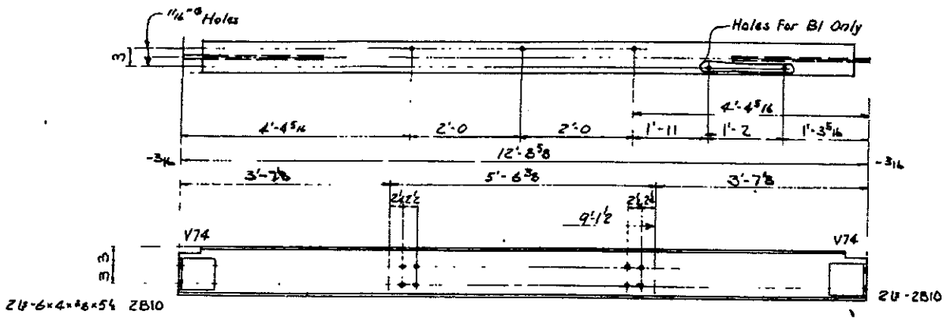
AMERICAN BRIDGE
UNITED STATES STEEL CORPORATION

DRAWINGS MADE AT BIRMINGHAM PLANT
WORK FABRICATED AT BIRMINGHAM PLANT
IN CHARGE OF C.F. HARRIS
DRAW. MADE BY J.D.M. DATE
DRAW. CHECKED BY CLH. DATE 8-17

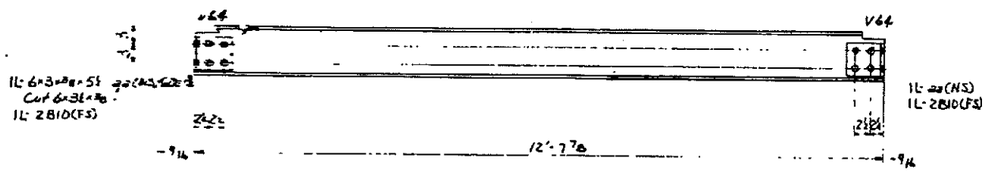
F	
E	
D	
C	
B	2-5-58
X	12-22
REVISIONS	

ORDER No. Q-4003
SHEET No. 26

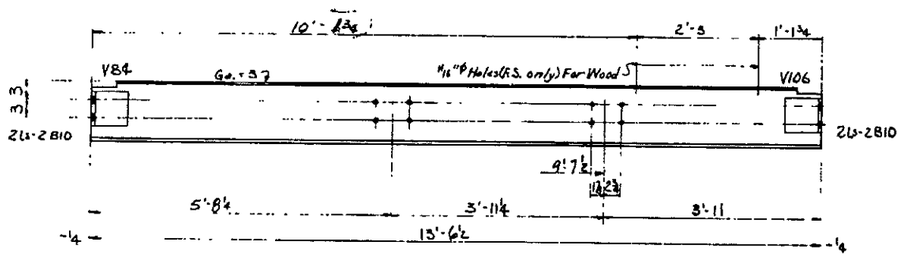
#5-2



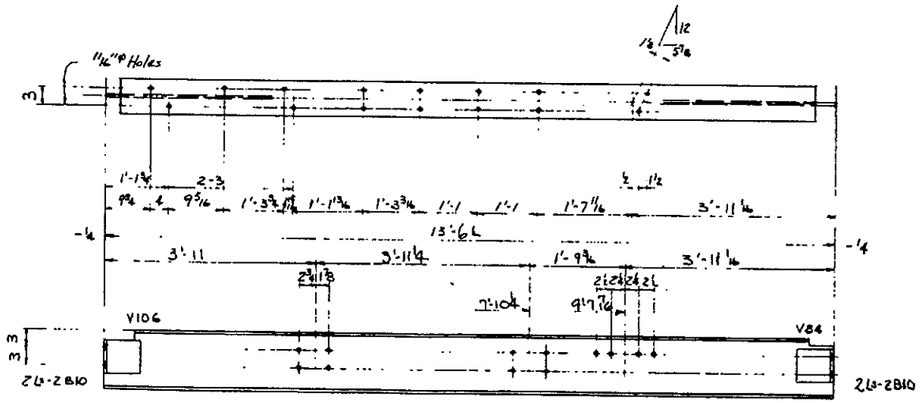
1-8CB17 × 12'-7¾ 27B1 - 27B3



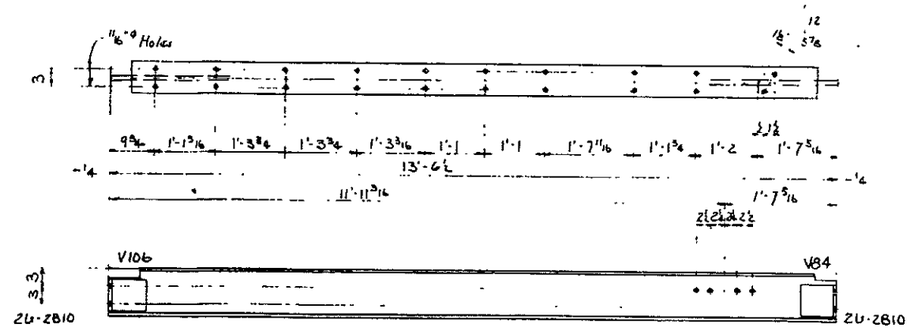
1-8CB17 × 12'-7 27B2



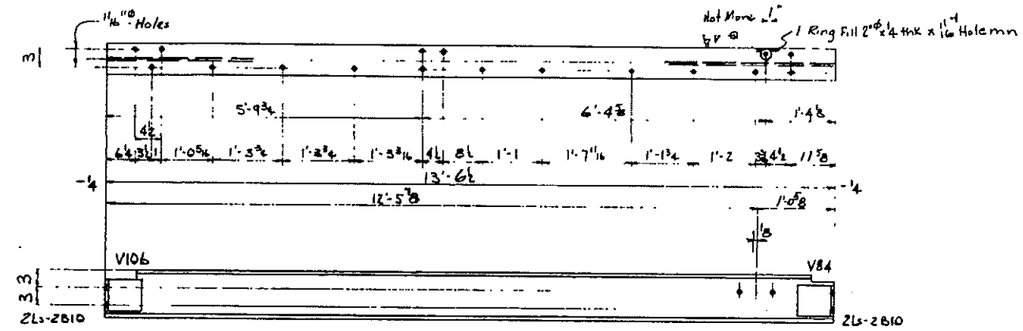
1-10CB21 × 13'-5½ 27B4 B



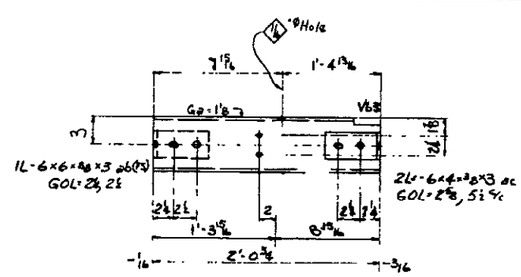
1-10CB21 × 13'-5½ 27B5



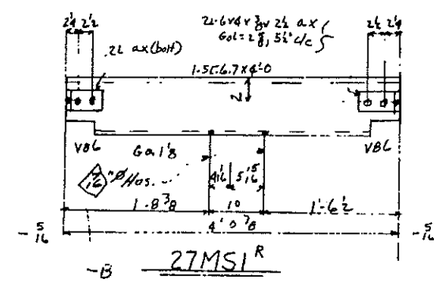
1-8CB17 × 13'-5½ 27B6



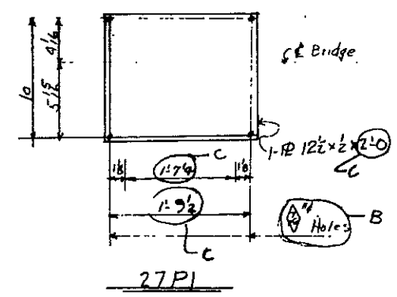
1-8CB17 × 13'-5½ 27B7



1-6[8.2 × 1'-11¾ 27B8



27MS1 R



27P1

No	Required List	Mark
1	Beam	27B1
1	Beam	27B3
2	do	27B2
1	do	27B4 R
2	do	27B4 L
1	do	27B5
1	do	27B6
1	do	27B7
1	do	27B8
1	Machine Support (As shown)	27MS1 R
1	do (left)	27MS1 L
1	Plate	27P1

Control House Floor Beams
Swing Span Bridge Over Savannah River
Chatham County, Ga. & Jasper County, SC.

American Bridge

Drawings made at Birmingham plant
Work fabricated at Birmingham plant
In charge of CFH
Draw. made by WEC Date 8-3-53
Draw. checked by VHP Date 8-14-53

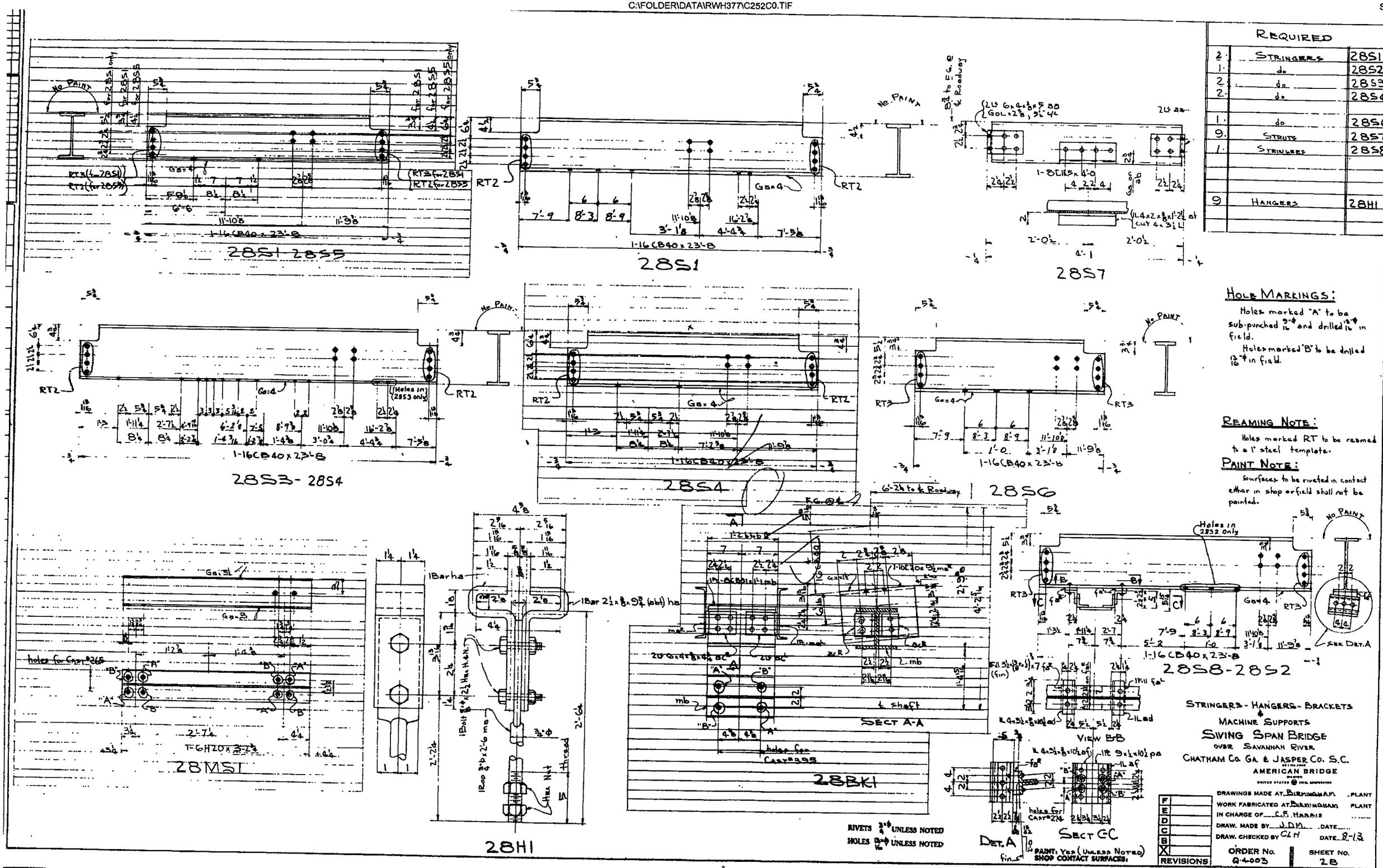
Rivets ¾"φ unless noted
Holes 13/16"φ unless noted

Paint Note:
Surfaces to be riveted in contact either in the shop or in the field shall not be painted.

Paint: Yes (See Paint Note)
Shop contact surfaces: No

Revisions	
F	
E	
D	
C	2-5-54 (2)
B	12-22-53 (1)
X	12-18-53 (1)

Order No. Q 4003
Sheet No. 27



Required		
2	Stringers	2851
1	do	2852
2	do	2853
2	do	2854
1	do	2856
9	Struts	2857
1	Stringers	2858
9	Hangers	28H1

Hole Markings:

Holes marked "A" to be sub-punched 3/16" and drilled 13/16" in field.

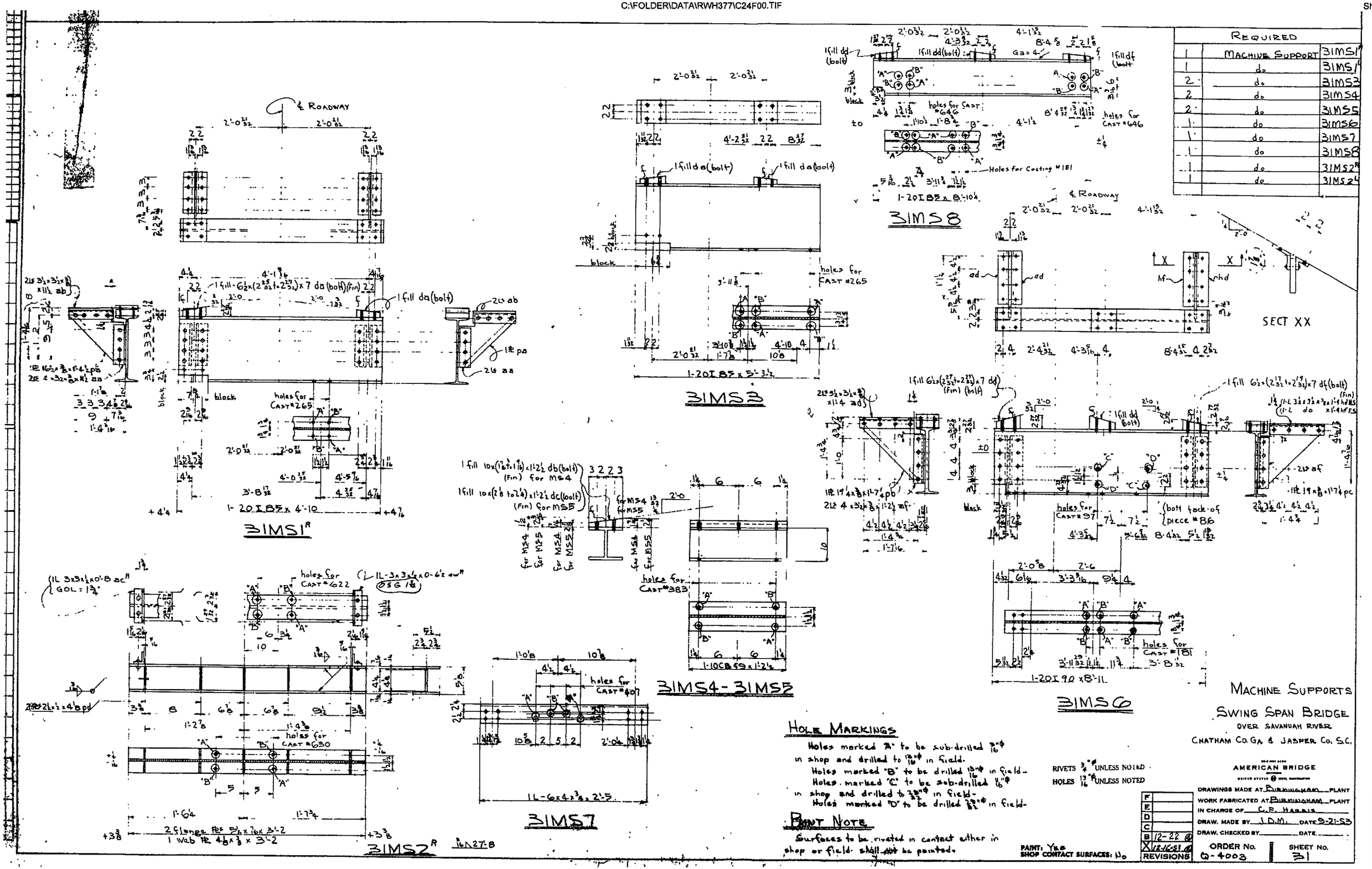
Holes marked "B" to be drilled 13/16" in field.

Reaming Note:

Holes marked RT to be reamed to a 1" steel template.

Paint Note:

Surfaces to be riveted in contact either in shop or field shall not be painted.



REQUIRED		
1	MACHINE SUPPORT	31MS1R
1	do	31MS1L
2	do	31MS3
2	do	31MS4
2	do	31MS5
1	do	31MS6
1	do	31MS7
1	do	31MS8
1	do	31MS2R
1	do	31MS2L

HOLE MARKINGS

Holes marked "A" to be sub-drilled 3/16"φ in shop and drilled to 13/16"φ in field.
Holes marked "B" to be drilled 13/16"φ in field.
Holes marked "C" to be sub-drilled 1/16"φ in shop and drilled to 23/32"φ in field.
Holes marked "D" to be drilled 23/32"φ in field.

PAINT NOTE

Surfaces to be riveted in contact either in shop or field shall not be painted.

RIVETS ¾"φ UNLESS NOTED
HOLES 13/16"φ UNLESS NOTED

PAINT: Yes
SHOP CONTACT SURFACES: No

MACHINE SUPPORTS
SWING SPAN BRIDGE
OVER SAVANNAH RIVER
CHATHAM Co. GA & JASPER Co. S.C.

AMERICAN BRIDGE
DIVISION
UNITED STATES STEEL CORPORATION

DRAWINGS MADE AT Birmingham PLANT
WORK FABRICATED AT Birmingham PLANT
IN CHARGE OF C.R. Harris
DRAW. MADE BY J.D.M. DATE 9-21-53
DRAW. CHECKED BY _____ DATE _____

REVISIONS	
F	
E	
D	
C	
B	12-22
X	12-16-53

ORDER No. Q-4003
SHEET No. 31