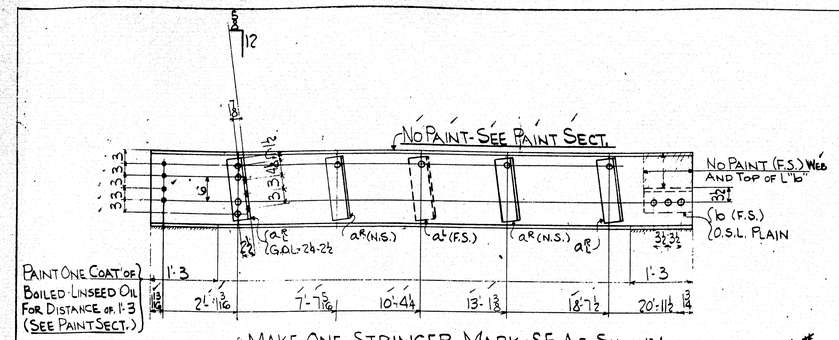
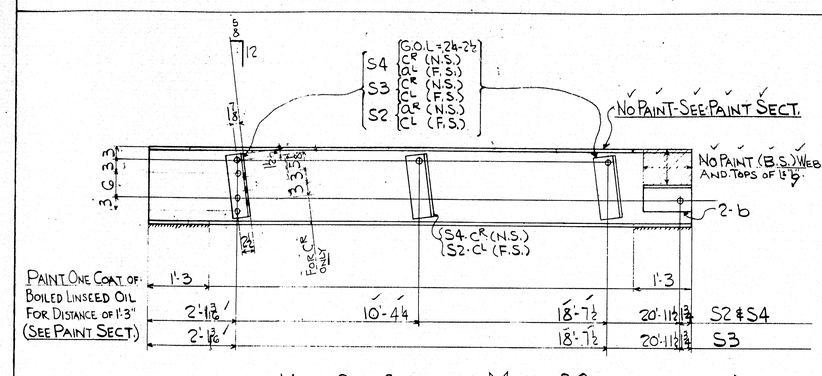
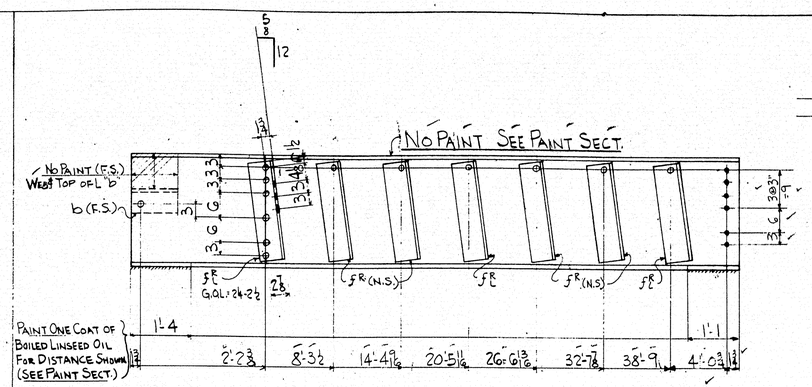


MAKE ONE STRINGER, MARK S5 AS SHOWN WT. OF ONE 1209 #
" ONE " " S1 OPP. HAND do 1209 #

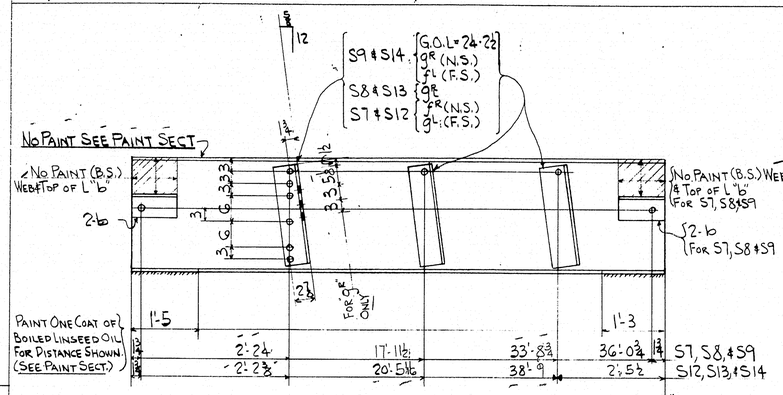


MAKE ONE STRINGER MARK S2 WT. OF ONE 1402 #
" ONE " " S3 do 1367 #
" ONE " " S4 do 1402 #

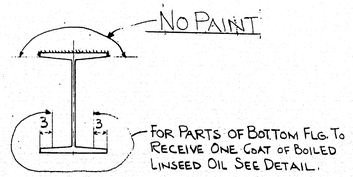
MAKE ONE STRINGER MARK S10 AS SHOWN WT OF ONE 3353 #
" ONE " " S6 OPP HAND do 3353 #



MAKE ONE STRINGER MARK S15 AS SHOWN WT OF ONE 4209 #
" ONE " " S11 OPP. HAND do 4209 #



MAKE ONE STRINGER MARK S7 WT OF ONE 3599 #
ONE S8 do 3599 #
ONE S9 do 3599 #
ONE S12 do 4481 #
ONE S13 do 4481 #
ONE S14 do 4481 #



PAINT SECTION

	REQ'D No	REQ'D MARK	MADE UP OF No	Pc. Mk	SIZE	LENGTH	REMARKS	ORD	WEIGHT
AS SHOWN	1	S5	1		18WF50	21'-1¼		9-418-6	1055.
OPP. HAND	1	S1	1		18WF50	21'-1¼		Do	1055.
			14	aR	LG×4×7/16	1'-3		1-21	250.
			2	b	LG×4×½	10½"		1-16	29.
			46	Rivs.	⅞" ø				17.
	1	S2	1		18WF60	21'-1¼		9-418-5	1266.
	1	S3	1		Do	21'-1¼			1266.
	1	S4	1		Do	21'-1¼			1266.
			4	aR				1-21	72.
			10	cR	LG×4×7/16	1'-3		Do	179.
			6	b				1-16	86.
			41	Rivs.	⅞" ø				15.
AS SHOWN	1	S10	1		24WF84	36'-2½		9-418-4	3042.
OPP. HAND	1	S6	1		24WF84	36'-2½		Do	3042.
			20	dR	LG×4×7/16	1'-9		1-21	501.
			4	b				1-16	57.
			96	Rivs.	⅞" ø				35.
AS SHOWN	1	S15	1		27WF94	41'-2½		9-418-7	3874.
OPP. HAND	1	S11	1		27WF94	41'-2½		Do	3874.
			20	dR	LG×4×7/16	2'-0		1-21	572.
			2	b				1-16	29.
			90	Rivs.	⅞" ø				32.
	1	S7	1		27WF94	36'-2½		9-418-3	3404.
	1	S8	1		27WF94	36'-2½		-3	3404.
	1	S9	1		27WF94	36'-2½		-3	3404.
	1	S12	1		27WF102	41'-2½		-1	4203.
	1	S13	1		27WF102	41'-2½		-1	4203.
	1	S14	1		27WF102	41'-2½		-1	4203.
			12	dR				1-21	343.
			24	gR	LG×4×7/16	2'-0		Do	686.
			18	b				1-16	257.
			135	Rivs	⅞ ø				49.
								Gross Wt.	45770.
								Wt. Ded.	
								Net Wt.	45770.
								Paint	183.
								Tot. Wt.	45953.

L
W.

BEAMS FOR SPANS OVER MAINE CENTRAL RAILROAD TRACKS

ARROWSIC BRIDGE OVER SASANOA RIVER
ARROWSIC - WOOLWICH
FED. AID PROJ. No. S-154 (2)
CONTRACT No. 2

FOR NOTES ON SPECIFICATIONS, MATERIAL, PAINTING, PUNCHING, DRILLING, REAMING, ETC. SEE SHEET X50

RIVETS 7/8" DIAM. OPEN HOLES 15/16 DIAM. UNLESS OTHERWISE NOTED

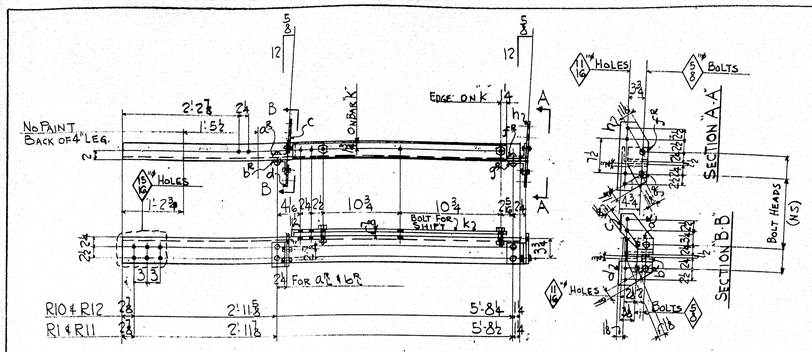
HARRIS STRUCTURAL STEEL CO.
419 FOURTH AVE., N. Y.

REVISIONS

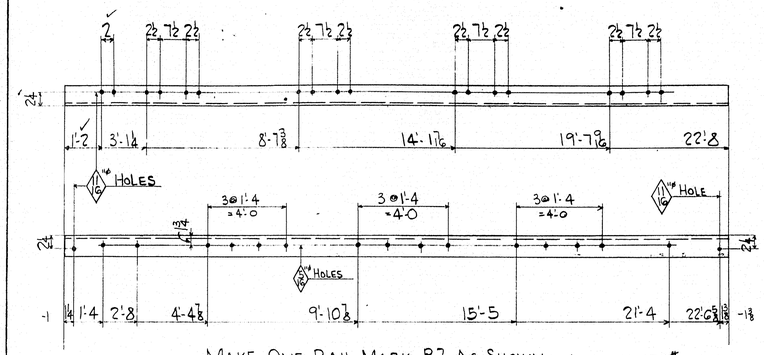
DRAW. MADE BY [illegible] DATE 11-10-49
DRAW. CHECKED BY [illegible] DATE 11-20-49
CONTRACT No. 6378 SHEET No. 1

48-102

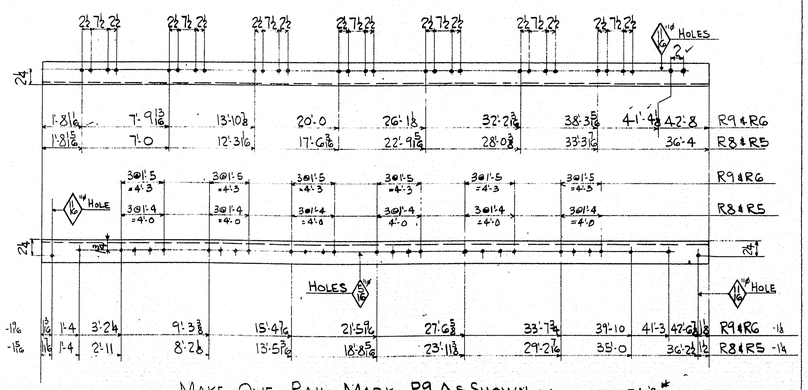
0 1 2 3 4 5 INCHES



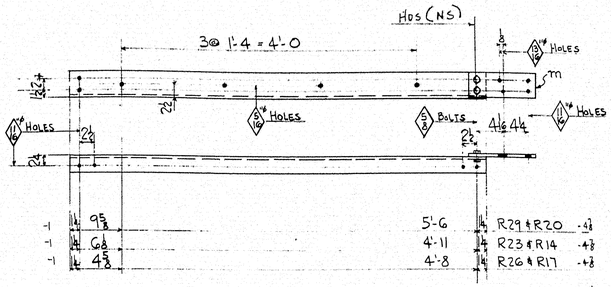
MAKE 4 POSTS MARK R1 AS SHOWN WT OF ONE 132#
" 4 " " R11 OPP. HAND do 132#
" 14 " " R10 AS SHOWN do 132#
" 14 " " R12 OPP. HAND do 132#



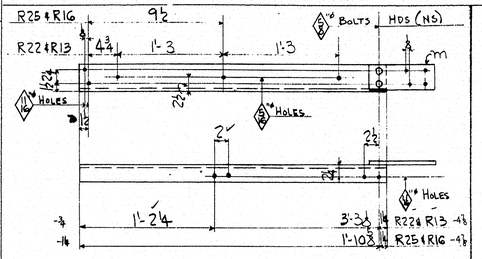
MAKE ONE RAIL MARK R7 AS SHOWN WT OF ONE 193#
" ONE " " R4 OPP HAND do 193



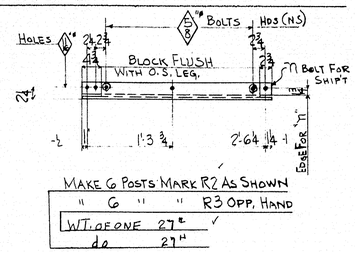
MAKE ONE RAIL MARK R9 AS SHOWN WT OF ONE 364#
" ONE " " RG OPP. HAND do 364#
" ONE " " R8 AS SHOWN do 310#
" ONE " " R5 OPP. HAND do 310#



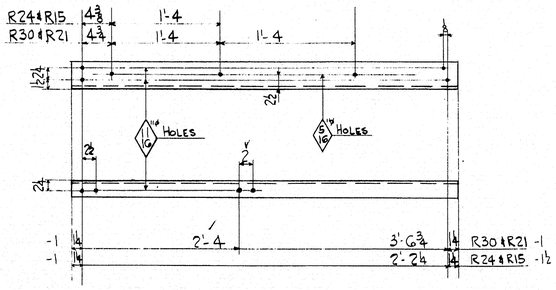
MAKE 6 RAILS MARK R29 AS SHOWN WT OF ONE 63#
" 6 " " R20 OPP. HAND do 63#
" 3 " " R23 AS SHOWN do 57#
" 3 " " R14 OPP. HAND do 57#
" 6 " " R26 AS SHOWN do 55#
" 6 " " R17 OPP. HAND do 55#



MAKE ONE RAIL MARK R22 AS SHOWN WT OF ONE 39#
" ONE " " R13 OPP. HAND do 39#
" 2 " " R25 AS SHOWN do 25#
" 2 " " R16 OPP. HAND do 25#



MAKE 6 POSTS MARK R2 AS SHOWN
" 6 " " R3 OPP. HAND
WT. OF ONE 27#
do 27#



MAKE ONE RAIL MARK R30 AS SHOWN WT. OF ONE 38#
" ONE " " R21 OPP HAND do 38#
" 2 " " R24 AS SHOWN do 24#
" 2 " " R15 OPP HAND do 24#

		REQ'D No	MARK	MADE UP OF No	Pc. Mk.	SIZE	LENGTH	REMARKS	ORD.	WEIGHT
AS SHOWN		4	R1	4		L6 G x 4 x ½	5'-9 3/4	CUT 60°-0	1-16	376. -
OPP HAND		4	R11	4			5'-9 3/4			376. -
AS SHOWN		14	R10	14			5'-9½			1313. -
OPP HAND		14	R12	14			5'-9½			1313. -
				36	a & b	L 3½ x 3½ x 5/16	5½	BENT	1-23	119. -
				36	b & a	do	5½	BENT	Do	119. -
				36	c	PL G 3/8 x 5/16	8		9-419-1	164. 1/2
				36	d	do	4 3/4		Do	98. 1/2
				36	e & f	L 3½ x 3½ x 5/16	5	BENT	1-23	109. -
				36	f & e	do	5	BENT	Do	109. -
				36	h	PL G ¼ x 5/16	1'-2¾		9-419-1	294. -
				36	K	BAR 3/8 x 5/16	2'-6 ADJ	BENT	Do	335. -
				144	Rivs	3/4" ø				35. -
				216	Bolts	5/8" ø	1½	HEX HD & NUT.	123-13	39. -
				72	Bolts	3/4" ø	2½			23. -
AS SHOWN		1	R7	1		L 3½ x 3½ x 3/8	22'-8	CUT 60°-0	1-18	193. -
OPP. HAND		1	R4	1		do	22'-8	do	Do	193. -
AS SHOWN		1	R9	1		L 3½ x 3½ x 3/8	42'-8	CUT 44°-0	1-18	363. -
OPP. HAND		1	RG	1		do	42'-8	do		363. -
AS SHOWN		1	R8	1		do	36'-4	CUT 60°-0		309. -
OPP. HAND		1	R5	1		L 3½ x 3½ x 3/8	36'-4	do		309. -
AS SHOWN		6	R29	6		L 5 x 3½ x 3/8	5'-7¼	CUT 60°-0	1-17	349. -
OPP. HAND		6	R20	6			5'-7¼			349. -
AS SHOWN		3	R23	3			5'-0¼			157. -
OPP. HAND		3	R14	3			5'-0¼			157. -
AS SHOWN		6	R26	6			4'-9¼			298. -
OPP. HAND		6	R17	6		L 5 x 3½ x 3/8	4'-9¼			298. -
				30	m	BARS 4 3/4 x 5/16	10¾		9-419-1	136. -
				60	Bolts	3/4" ø	1½	HEX. HD. & NUT.	123-13	11. -
AS SHOWN		1	R22	1		L 5 x 3½ x 3/8	3'-4⅜	CUT 60°-0	1-17	35. -
OPP. HAND		1	R13	1			3'-4⅜			35. -
AS SHOWN		2	R25	2			1'-11⅜			41. -
OPP. HAND		2	R16	2		L 5 x 3½ x 3/8	1'-11⅜			41. -
		6	m						9-419-1	37. -
		12	Bolts			5/8" ø	1½	HEX. HD & NUT.	123-13	2. -
AS SHOWN		6	R2	6		L 3½ x 3½ x 5/16	21'-7½	CUT 60°-0	1-23	114. 12
OPP. HAND		6	R3	6		do	21'-7½	do	Do	114. 12
				12	m	BARS 3 x 5/16	21'-7½		9-419-1	101. -
				24	Bolts	5/8" ø	2½		123-14	5. -
AS SHOWN		1	R30	1		L 5 x 3½ x 3/8	3'-8	CUT 60°-0	1-17	38. -
OPP. HAND		1	R21	1			3'-8			38. -
AS SHOWN		2	R24	2			2'-3½			48. -
OPP. HAND		2	R15	2		L 5 x 3½ x 3/8	2'-3½			48. -
								Gross Wt.		8994.
								Wt Decl.		112.
								Net Wt		8882.
								Paint		36
								Tot. Wt		8918.

L W.

ARROWSIC BRIDGE OVER SASANOA RIVER
ARROWSIC - WOOLWICH
FED. AID PROJ. No. S-154 (2)
CONTRACT No. 2

FOR NOTES ON SPECIFICATIONS, MATERIAL, PAINTING, PUNCHING, DRILLING, REAMING, ETC. SEE SHEET X50

RIVETS ¾" DIAM. OPEN HOLES 13/16" DIAM. UNLESS OTHERWISE NOTED

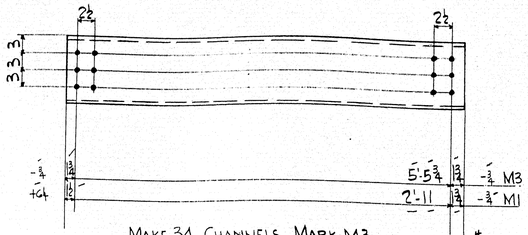
REVISIONS

HARRIS STRUCTURAL STEEL CO.
419 FOURTH AVE., N. Y.

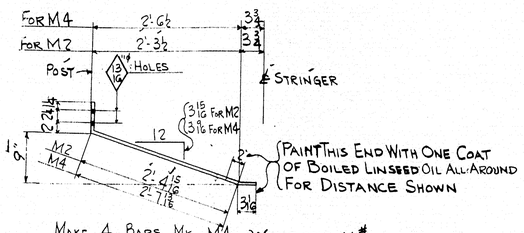
DRAW. MADE BY F. DATE 11-14-49
DRAW. CHECKED BY J DATE 11-30-49
CONTRACT No. C378 SHEET No. 2

48-103

0 1 2 3 4 5 INCHES

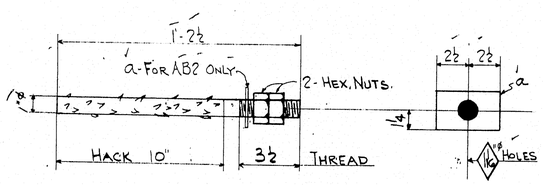


MAKE 34 CHANNELS MARK M3 WT OF ONE 191#
" 36 " " M1 do 77#

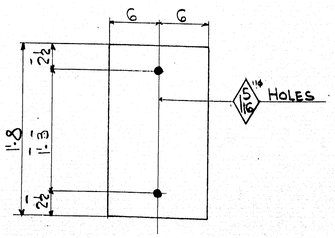


MAKE 4 BARS MK. M4 WT. OF ONE 11#
MAKE 36 BARS MK. M2 do 10#

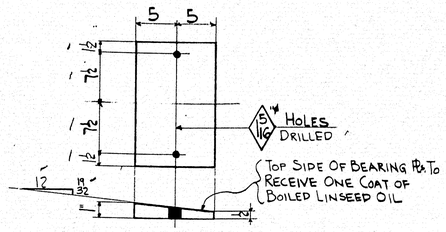
NO PAINT EXCEPT AS NOTED



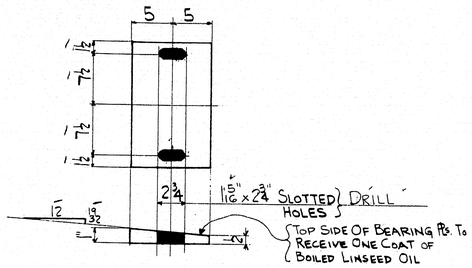
WT OF ONE 4# MAKE 30 HACK BOLTS MARK AB1 } NO PAINT
" 30 " " " AB2 ✓



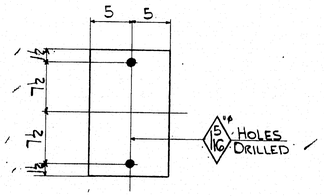
MAKE 90 PIECES CANVAS MARK CL1 TOTAL WT. 16#



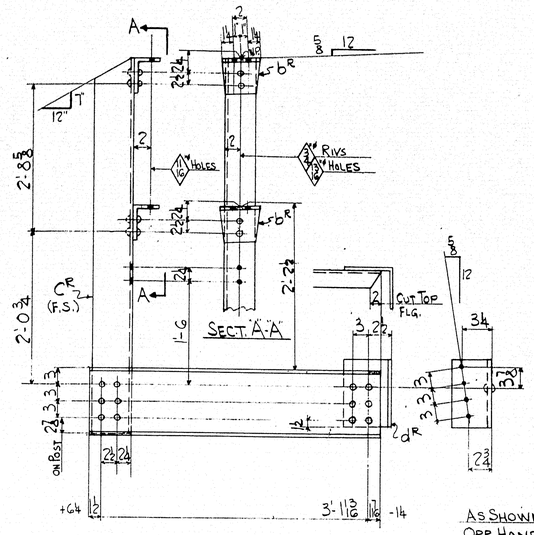
MAKE 15 BEARING PLS MARK P1 WT. OF ONE 38#



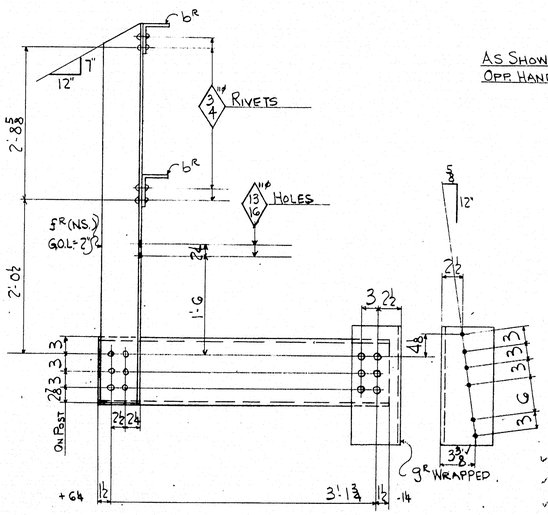
MAKE 15 BEARING PLS MARK P2 WT. OF ONE 38#



MAKE 15 BEARING PLS MARK P3 WT. OF ONE 38#



MAKE ONE POST MARK R32 AS SHOWN WT OF ONE 217#
MAKE ONE POST MARK R31 OPP HAND do 217#



MAKE ONE POST MARK R33 AS SHOWN WT. OF ONE 233#
" ONE " " R34 OPP HAND 233#

REQ'D No.	MARK	MADE UP OF No.	PC. MK.	SIZE	LENGTH	REMARKS	ORD.	WEIGHT	
34	M3	34		12 C 25	5'-7½	Cut 33'-9 & 22'-6	9-418-74 Do-8	4786	-
36	M1	36		12 C 25	3'-0¾	Cut 18'-4½	Do-9	2754	-
36	M2	36		Bar 2½ x ¾	3'-1½	Bent (R1)	1-30	359	-
4	M4	4		Do	3-4⅜	Do	Do.	43	-
30	AB1	30		1" ϕ Rod	1'-2½	Hacked	2-6	97	-
30	AB2	30		do	do	do	Do	97	-
		120		Hex Nuts For 1" Bolts			2-7	34	-
		30	a	P. 2½ x 4	5	AB2 ONLY	2-8	27	2
90	CL1	90		1'-0 x 1'-8 Pieces Of 12-14 oz. Canvas			33183 Duck	16	-
15	P1	15		PL 10 x 1"	1'-6	Beveled	2-3	765	199
15	P2	15		PL 10 x 1"	1'-6	Beveled	2-3	765	208
15	P3	15		PL 10 x ¾	1'-6		2-4	574	8
As Shown	R32	1		12 C 25	3'-3¼		9-418-74	82	-
Opp. Hand	R31	1		do	3'-3¼		Do	82	-
		2	CR	15 G x 4 x ½	5'-1"		1-16	192	2
		4	bR	15 G w 3½ x ⅜	4½			18	1
		2	dR	15 x 6 G x ½	1'-0⅜			49	-
	(R1)	24	Rivs	⅞				9	-
		8	"	¾				2	-
As Shown	R33	1		12 C 25	3'-3¼		9-418-74	82	-
Opp. Hand	R34	1		12 C 25	3'-3¼		Do	82	-
		2	fR	15 G x 4 x ½	5'-10¾		1-16	191	2
		4	bR					18	-
		2	gR	15 x 6 G x ½	1'-9"			81	-
	(R1)	24	Rivs	⅞				9	-
		8	"	¾				2	-
						Gross Wt		11216	
						Wt. Ded.		423	
						Net Wt.		10793	
						Paint		43	
						Tot. Wt.		10836	

- BEARING PLATES, ANCHOR BOLTS,
- DIAPHRAMS & TIES FOR RAILING
- POSTS FOR SPANS OVER MAINE
- CENTRAL R.R. TRACKS,

ARROWSIC BRIDGE OVER SASANOA RIVER
ARROWSIC - WOOLWICH
FED. AID PROJ. No. S-154 (2)
CONTRACT No. 2

FOR NOTES ON SPECIFICATIONS, MATERIAL, PAINTING, PUNCHING, DRILLING, REAMING, ETC. SEE SHEET X50

SHEETS 7/8" DIAM. OPEN HOLES UNLESS OTHERWISE NOTED 15/16" DIAM.

HARRIS STRUCTURAL STEEL CO.
419 FOURTH AVE., N. Y.

REVISIONS		
R1	1/20/50	As Noted

DRAW. MADE BY ... DATE 11-16-49
DRAW. CHECKED BY ... DATE 11-21-49
CONTRACT No. C878 SHEET No. 3

48-104

0 1 2 3 4 5 INCHES

HARRIS STRUCTURAL STEEL COMPANY, INC., 419 FOURTH AVE., NEW YORK 16, N. Y. (P L)

STRUCTURE ARROWSIC ROAD OVERPASS, TOWN OF WOOLWICH, MAINE.

REQ'D	MARK	NO.	SIZE	LENGTH	REMARKS	ORD.	WEIGHT
		950	7/8 ϕ RIVETS	2 3/8			342
		95	3/4 ϕ BOLTS	2	HEX. HD	123-8	14
		120	" "	2 1/2	"	-9	18
		85	" "	3	"	-10	13
		300	HEX. NUTS FOR 3/4 ϕ BOLTS				36
		425	5/8 ϕ BOLTS	1 1/2	HEX HD	123-13	38
		85	Do	2 1/2 (R1)	Do	123-14	8
		510	HEX NUTS FOR 5/8 ϕ BOLTS				46

7/8 ϕ FIELD RIVETS — GRIP 7/8

12 □ TO STRINGERS & RAILING POSTS TO 12 □

3/4 ϕ FIELD BOLTS

	GRIP
2 1/2 x 3/8 BAR TO RAILING POST	7/8
3 1/2 x 5/16 " " " "	1 1/16
3 1/2 x 5/16 " " " "	2

5/8 ϕ FIELD BOLTS — RAILS TO POSTS & RAIL SPLICES — GRIP 1 1/16

RAILING ENDS — GRIP 1 1/16 (R1)

SHIPMENT #1

515

NAME	DATE
PL J	

RIVETS DIAM. OPEN HOLES DIAM.

UNLESS OTHERWISE NOTED

REVISED

R1- 11/31/50 - LGTH OF 5/8 ϕ BOLTS CHANGED

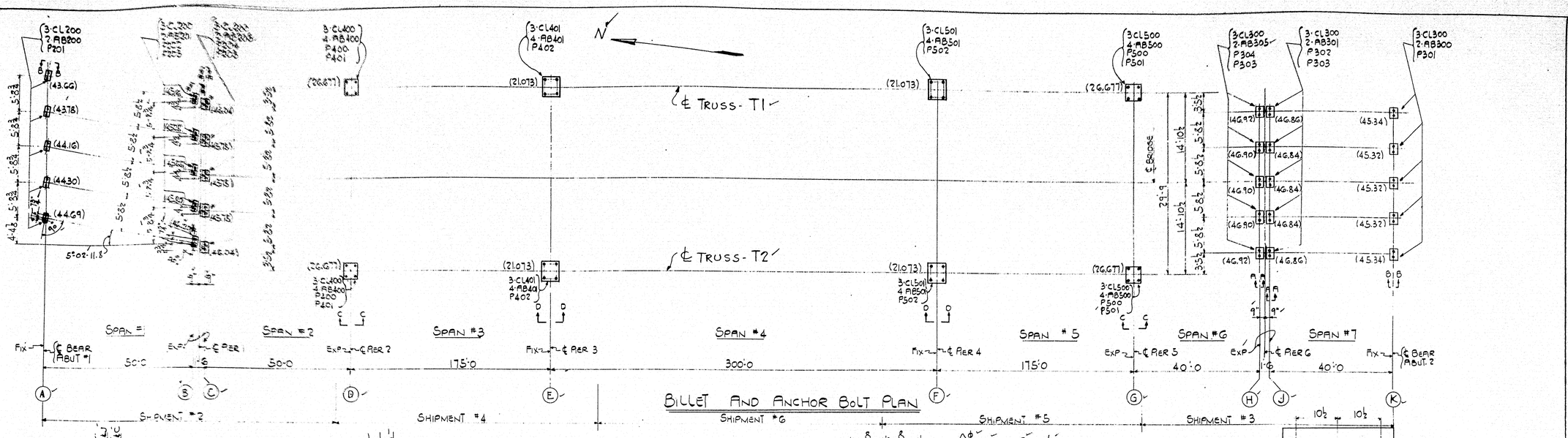
CONTRACT NO. C378

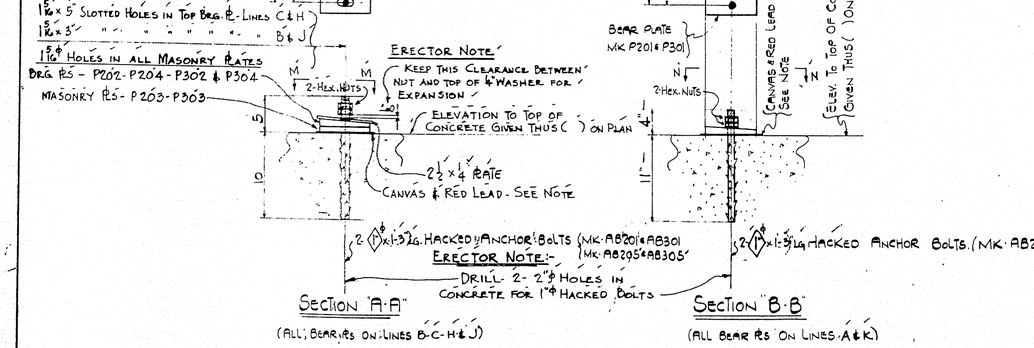
SHEET NO. 4

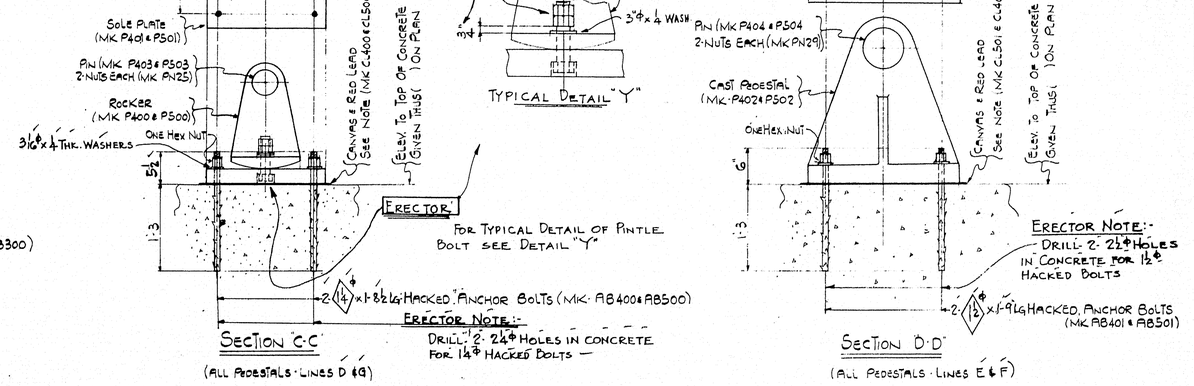
48-105

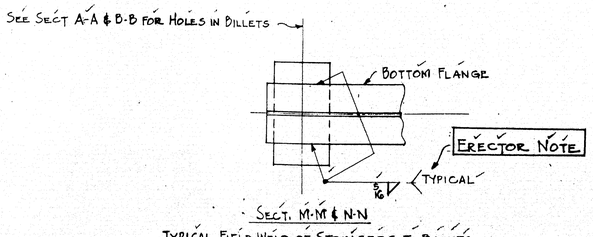
0 1 2 3 4 5 INCHES

BILLET AND ANCHOR BOLT PLAN









SIZE OF BEARING & MASONRY PLATES

FOR P301, P302 & P304 -	12 9 x 1 7/16 x 1 1/16 x 1'-5" (BEVELED)	
P204 -	9 x 1 7/16 x 1 1/16 x 1'-7"	Do.
P201 & P202 -	9 x 1 7/8 x 1 8 x 1'-7"	Do.
P203 -	9 x 1 x 1'-7"	
P303 -	9 x 1 x 1'-5"	
P401 & P501 -	21 x 3½ x 2'-4¾"	

NOTES:

WHERE CANVAS & RED LEAD IS SHOWN ON PLAN, PROVIDE 3 LAYERS OF CANVAS DUCK 12-14 OZ. WITH RED LEAD TO BE APPLIED AS FOLLOWS:- THOROUGHLY SWAB THE TOP SURFACE OF THE BRIDGE SEAT BEARING AREA WITH RED LEAD PAINT AND PLACE UPON IT THREE LAYERS OF 12-14 OZ. DUCK EACH LAYER BEING THOROUGHLY SWABBED ON ITS TOP SURFACE WITH RED LEAD PAINT. PLACE IN POSITION THE BEARING PLATES AND PEDESTALS WHILE THE PAINT IS PLASTIC.

PIECES OF CANVAS DUCK ARE MARKED WITH PREFIX CL.

ELEVATIONS GIVEN THUS ( ) ARE TO TOP OF CONCRETE.

HOLES FOR HACKED BOLTS TO BE DRILLED IN CONCRETE 1" LARGER THAN DIAMETER OF BOLT.

HACKED BOLTS TO BE GROUTED IN ACCORDING TO SPECIFICATIONS

PIN THREADS TO BE BURRED AFTER PIN NUTS ARE DRAWN TIGHT.

ARROWSIC BRIDGE OVER SASANOA RIVER
ARROWSIC - WOOLWICH
FED. AID PROJ. No. S-154 (2)
CONTRACT No. 2

SHEET TITLE BILLET & ANCHOR BOLT PLAN
STRUCTURE ARROWSIC BRIDGE
LOCATION OVER SASANOA RIVER BET. TOWNS OF ARROWSIC & WOOLWICH - SAGADAHOC COUNTY, MAINE
PURCHASER
HARRIS STRUCTURAL STEEL CO., INC.
NEW YORK CITY AND NEW MARKET, N. J.

	Date	Mck.	Det.	Tab.
MADE BY VB	10-8-49			
CHECKED BY RT	12-11-49			

CONTRACT NO. C378 SHEET NO. E100

48-106

0 1 2 3 4 5 INCHES

PORTAL AT L8-U9

TOP CHORD LATERAL BRACING

SWAY BRACES AT: L0-U0; L1-U1; L2-U2; L3-U3; L4-U4; L5-U5

SHIPMENT #2 | SHIPMENT #4 | SHIPMENT #6 TO PP17

ERECTOR NOTE: WELD PLS M1 & M2 TO TOP COV. PLS WITH ¼" WELD

DETAIL "A"

FOR RAILING IN SPANS NO. 1 & 2 SEE SHT. E103

FOR RAILING BETWEEN PANELS U0 & U26 SEE SHT. E104 & E105

FINISHED GRADE ALONG ℄ OF ROADWAY

FOR ADJOINING STEEL SEE SHEET #E102

SPAN #1 | SPAN #2 | SPAN #3 | SPAN #4

ABUTMENT #1 | ℄ PIER 1 | ℄ PIER 2 | ℄ PIER 3 | ℄ STRUCTURE

50'-0 | 50'-0 | 7 PANELS @ 25'-0 = 175'-0 | 12 PANELS @ 25'-0 = 300'-0 (TO PIER 4)

ELEVATION

FIX | EXP | EXP | FIXED

PORTAL AT L9-U10

SWAY BRACES AT: L9-U9; L7-U7; L8-U8

FOR 10C 20 BETWEEN PANELS U0 & U26 SEE SH. E104 & E105

FLOOR PLAN - SECTION "A-A"

BOTTOM CHORD LATERAL BRACING

SWAY BRACES AT: L11-U11; L12-U12; L13-U13

NOTE: VIEW OF ALL SECTIONS LOOKING NORTH

ADJUST 10U FOR SLIDING FIT

SECT. D-D

SECT. C-C (DEVELOPED)

ERECTOR NOTE: AFTER 10C HAS BEEN ADJUSTED FOR SLIDING FIT, REAM 1 1/16ϕ HOLES TO 15/16ϕ AND DRIVE 7/8ϕ RIVETS

DETAIL OF SHEAR LOCK AT L9

DETAIL AT L17 OPP. HAND

GENERAL NOTES:-

FOR SECTION B-B SEE SHEET E104

FOR EXPANSION DAM AT PIER #1 SEE SH. E103

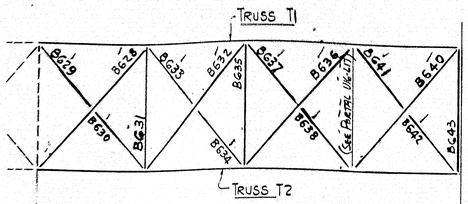
" " " " PANEL POINT L9 SEE SH. E105

PIN THREADS TO BE BURRED AFTER PIN NUTS ARE DRAWN TIGHT

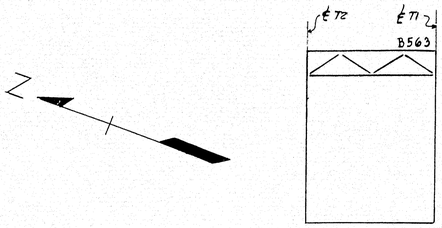
ARROWSIC BRIDGE OVER SASANOA RIVER
ARROWSIC - WOOLWICH
FED. AID PROJ. No. S-154 (2)
CONTRACT No. 2

SHEET TITLE	ERECTION PLAN (ABUT. #1 TO ℄ BRG.
STRUCTURE	ARROWSIC BRIDGE
LOCATION	OVER SASANOA RIVER BET. TOWNS OF ARROWSIC & WOOLWICH SAGADAHOC COUNTY, MAINE
PURCHASER	HARR'S STRUCTURAL STEEL CO., INC. NEW YORK CITY AND NEW MARKET, N. J.
DRAWN BY	YB
CHECKED BY	
Date	6-1-49
CONTRACT NO.	C378
SHEET NO.	E101

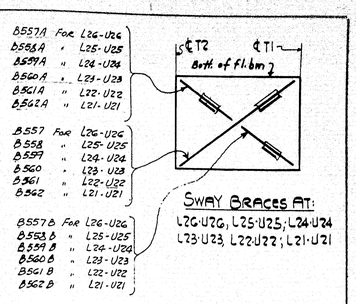
48-107

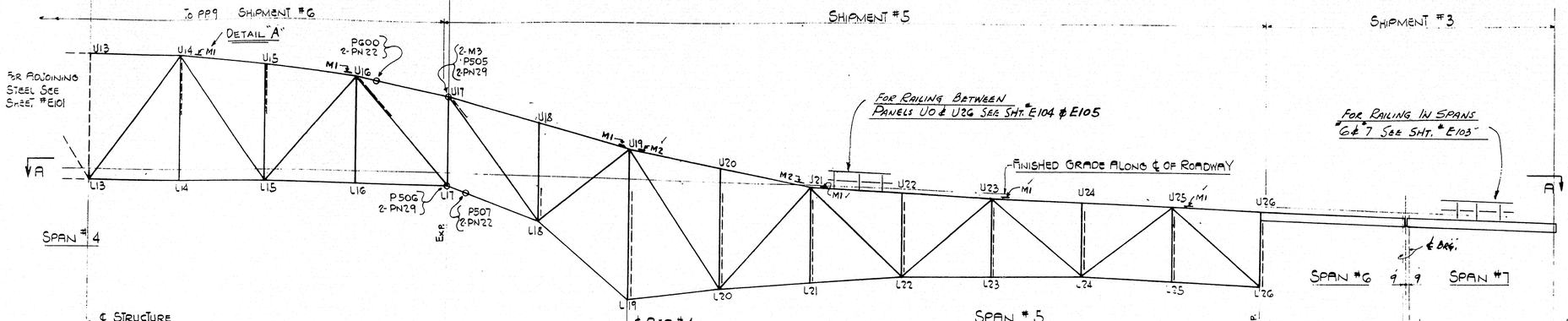


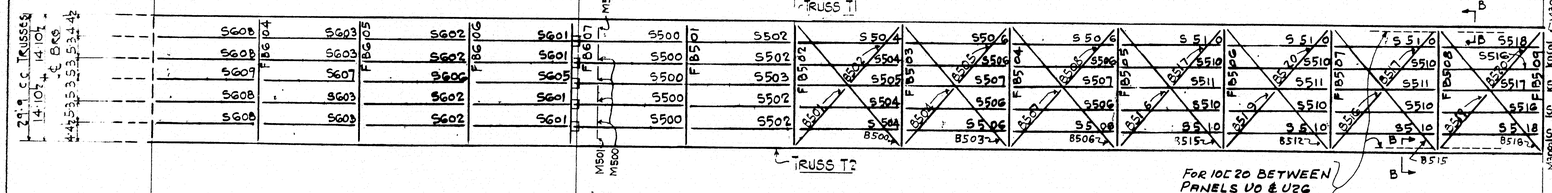
TOP CHORD LATERAL BRACING



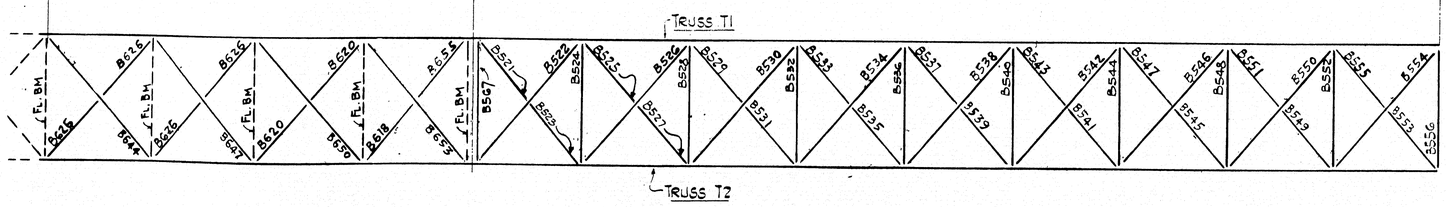
PORTAL AT L18-U17



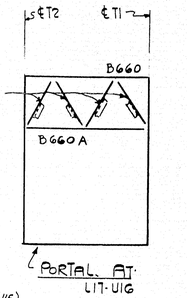


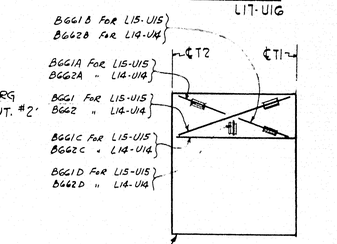


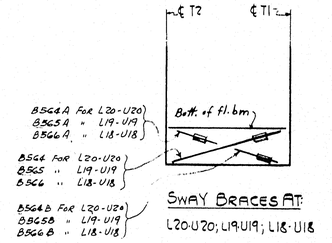
FLOOR PLAN - SECTION A-A



BOTTOM CHORD LATERAL BRACING







NOTE
VIEW OF ALL SECTIONS LOOKING NORTH

GENERAL NOTES:-

FOR SECTION 'BB' SEE SH. E104

FOR EXPANSION DAM AT PIER #6 SEE SH. #E103

" " " " PANEL POINT L17 SEE SHEET # E105.

FOR DETAIL "A" AND DETAIL OF SHEAR LOCK AT L17, SEE SH. E101

PIN THREADS TO BE BURRED AFTER PIN NUTS ARE DRAWN TIGHT

ARROWSIC BRIDGE OVER SASANOA RIVER
ARROWSIC - WOOLWICH
FED. AID PROJ. No. S-154 (2)
CONTRACT No. 2

SHEET TITLE	ERECTION PLAN (℄ BRG To ABUT #2)
STRUCTURE	ARROWSIC BRIDGE
LOCATION	OVER SASANOA RIVER BET. TOWNS OF ARROWSIC & WOOLWICH SAGADAHOC COUNTY, MAINE
PURCHASER	
	HARRIS STRUCTURAL STEEL CO., INC. NEW YORK CITY AND NEW MARKET, N. J.
MADE BY YB	Date 10-14-49
CHECKED BY	
CONTRACT NO. C378	SHEET NO. E102

48-108

SHIPMENT #2

50'-9 | 50'-9

℄ BEARING ABUT. #1 | SPAN 1 | ℄ PIER 1 | SPAN 2 | ℄ FLOOR BEAM @ U0

TRUSS SPAN - SEE SH. E104 & E105

SHIPMENT #3

40'-9 | 40'-9

℄ FLOOR BEAM @ U26 | SPAN 6 | ℄ PIER 6 | SPAN 7 | ℄ BEARING ABUT. #2

R203 M245 · R205 M245 · R207 M246 · R209 M246 · R211 M247 · R213 M247 · R215 M248 · R217 M248 · R219 M242 · R221 M242 · R223 M240 · R225 M240 · R227 M240 · R229 M240 · R231 M240 · R233 M240

R202 M244 · R204 M244 · R206 M243 · R208 M243 · R210 M243 · R212 M243 · R214 M243 · R216 M240 · R218 M241 · R220 M241 · R222 M241 · R224 M240 · R226 M240 · R228 M240 · R230 M240 · R232 M240

R301 M304 · R303 M304 · R305 M304 · R307 M304 · R300 M304 · R302 M304 · R304 M304 · R306 M304

E200 · E201 · E202 · E203 · E204 · E205 · E206 · E207 · E208 · E209 · E300 · E301 · E302 · E303 · E304 · E305 · E306 · E307

STOP AT ALL POSTS THIS SPAN

DETAIL "A"
STA. 9+95.78

DETAIL "A"
SHOWING END OF BRIDGE RAIL

DETAIL "B"

DETAIL "B"
SHOWING END OF BRIDGE RAIL

ERECTION PLAN OF:
NORTH APPROACH - RAILING & EXPANSION DAM.

ERECTION PLAN OF
SOUTH APPROACH - RAILING & EXPANSION DAM.

SECTION "A-A"

SECTION "C-C"

SECTION "K-K"

VIEW - "B-B"

VIEW - "D-D"

TOP VIEW

VIEW - "H-H"

VIEW - "G-G"

SECTION "E-E" AS SHOWN
" "F-F" OPP HAND

TYPICAL RAIL POST CONNECTIONS

SECTION M-M "AS SHOWN"
SECTION N-N "OPP. HAND"

ERECTOR NOTE:- DETAIL OF DAM AT PIER #1 SIMILAR

ERECTOR NOTE:
5/16 IN FIELD

CURB FACE TO LINE UP WITH CENTERPUNCHING ON EXP. NO.

ERECTOR:- SET CURB PL. E302 TO E305 VERTICALLY ALONG CENTERPUNCHING ON DAMS E300 & E301 AND ATTACH. WITH 3/8" Ø WELD.

ERECTOR:- SHIM UP E300 & E301 TO LINE UP.

GENERAL NOTES:-
FOR TYPICAL DETAIL OF RAILING AND WIRE MESH SEE SH. E104.

ARROWSIC BRIDGE OVER SASANOA RIVER
ARROWSIC - WOOLWICH
FED. AID PROJ. No. S-154 (2)
CONTRACT No. 2

(APPROACH SPANS)

SHEET TITLE ERECTION PLAN OF RAILING & EXP. DAM.
STRUCTURE ARROWSIC BRIDGE
LOCATION OVER SASANOA RIVER BET. TOWNS OF ARROWSIC & WOOLWICH SAGADAHOC COUNTY MAINE
PU. CHASER
HARRIS STRUCTURAL STEEL CO., INC.
NEW YORK CITY AND NEW MARKET, N. J.

	Date	Hrs.	Dsgn.	Ptrs.
MADE BY WB	7-64			
CHECKED BY	10-64			

CONTRACT NO. C376 SHEET NO. E103

48-109

7 PANELS @ 25'-0" = 175'-0"

6 PANELS @ 25-0 = 150-0

SHIPMENT #4

SHIPMENT #6

RAILING POSTS 3-1½ 3 @ 6-3 = 18-9 3-1½ 3-1½ 3 @ 6-3 = 18-9 3-1½ 3-1½ 3 @ 6-3 = 18-9 3-1½ 3-1½ 3 @ 6-3 = 18-9 3-1½ 3-1½ 3 @ 6-3 = 18-9 3-1½ 3-1½ 6-3 6-3 9-4½ 3-1½ 9-0 4-11 4-11 3-0½ 3-1½ 4-0 8-10½ 6-3 2-9 2-2½ 5-2½ 4-10 4-10 4-10 3-1½ 3-1½ 6-3 6-3 9-4½ 9-4½ 6-3 6-3 3-1½ 3-1½ 6-3 6-3 9-4½

END OF RAIL

MESH SUPPORTS 6-3 3-1½ 4-6 4-6 6-3 2-7½ 5-10½ 3-5½ 2-11½ 6-5 6-5 2-11½

℄ TRUSS-T1

℄ TRUSS-T2

℄ RWAY 14-10½ 14-10½

10I20 S421

S421 S421 S421 S423 S425 S427 S429 S431 S609 S611 S613 10I20 S615

S420 10I20 S420 S420 S420 S422 S424 S426 S428 S430 S608 S610 S612 S614 10I20

B B M F H K N N K

C C D D B B

0 1 2 3 4 5 6 7 8 9 10 11 12 13

END OF RAIL

R400 R402 R402 R402 R402 R406 R408 R410 R412 RG00 RG02 RG04 RG06 RG28

R402 R404 R406 R408 R410 R412 RG01 RG03 RG05 RG07 RG28

TOP 10C20

TOP OF TOP CHD. COV. PL

SECTION C-C

VIEW D-D

HOLES FOR FASTENING WIRE MESH WITH WIRE LOOPS

⅝ϕ FIELD BOLTS - HEX. HD. & NUT (HEADS TOP SIDE)

¾ϕ FIELD BOLTS - HEX. HD & NUT HEADS (NS)

⅝ϕ FIELD BOLTS - HEX. HD & NUT (HEADS N.S)

⅝ϕ FIELD BOLTS - HEX. HD. & NUT HEADS UNDER SIDE

⅝ϕ FIELD BOLTS - HEX. HD & NUT HEADS (NS)

L-3½x3½x⅝ (NS) BAR-3x⅝ (FS) R466

10E 10E

℄ FL. BEAM

SECTION G-G

TYPICAL DETAIL AT ENDS OF RAILING

14'-0 TO ℄ RWAY 10½

℄ TRUSS

TOP RAIL-3½x3½x¾ L

BACK OF POSTS & 10I J8

BOTT. RAIL-5x3½x⅜ L

10J

BRN. FILLS

FL. BEAM

WIRE MESH

BAR-2½x⅝ (DENT)

POST-6x4x½ L

2-¾ϕ RODS

10J

SECT. B-B

SECT. E-E

TYPICAL RAILING POST

PANELS 0 TO 8, 10 TO 16 & 18 TO 20

⅝ϕ FIELD BOLTS - HEX. HD. & NUT HEADS ROADWAY SIDE

POST-6x4x½ L PART NOT SHOWN SAME AS SECT E-E

2-¾ϕ RODS

¾

1-0½

℄ TRUSS

10J

SECT. H-H (AS SHOWN)

SECT. K-K (OPP. HAND)

TYPICAL RAILING POST

PANELS 8 TO 10 & 16 TO 18

⅝ϕ FIELD BOLTS - HEX. HD. & NUT HEADS TOP SIDE

RAIL

BARS-3½x⅝ R466

WIRE MESH

RAIL

10½ ℄ TRUSS

TRUSS MEMBER

SECT. F-F

TYPICAL MESH SUPPORT

⅝ϕ FIELD BOLTS - HEX. HD. & NUT HEADS UNDERSIDE

TYPICAL CONNECTION OF RAILING TO TRUSS MEMBERS

14'-0 TO ℄ RWAY 10½

TOP RAIL

RAILING CONN. SIMILAR TO SECT G-G

POST-6x4x½ L

BOTT. RAIL

⅞ϕ FIELD RIVS

TYPICAL SECTION M-M

POST CONN. TO TOP CHORD OF TRUSS

NOTES:

ALL RAILING POSTS TO BE VERTICAL.

FOR SECTION N-N SEE SH.# E105

ARROWSIC BRIDGE OVER SASANOA RIVER

ARROWSIC - WOOLWICH

FED. AID PROJ. No. S-154 (2)

CONTRACT No. 2

SHEET TITLE PLAN OF SIDEWALK STRINGERS, EXPANSION DAM & RAILINGS

LOCATION SPANS # 3, 4 & 5

PURCHASER

HARRIS STRUCTURAL STEEL CO., INC.
NEW YORK CITY AND NEW MARKET N.J.

MADE BY H.L.V. 11/1/50

CHECKED BY

CONTRACT NO. C378 SHEET NO. E104

0 1 2 3 4 5 INCHES

48-110

6 PANELS @ 25'-0" = 150'-0"

7 PANELS @ 25'-0" = 175'-0"

RAILING POSTS

MESH SUPPORTS

SHIPMENT # 6

SHIPMENT # 5

END OF RAIL

℄ TRUSS T1

℄ TRUSS T2

℄ RWAY.

14'-10½

SECTION C-C

VIEW D-D

TOP OF TOP CHD. COV. PL.

TOP 10 C 20

ERECTOR:
SHIM UP E400 TO LINE UP WITH ANGLE ON FLOOR BEAM

SHIMS

2-⅞ FIELD BOLTS & 2 HEX NUTS

E400

21B

2-⅞ BOLTS HEX HD. & 2 HEX. NUTS (SEE DETAIL "Y")

FLOOR BEAM

SECTION N-N

ERECTOR:
FIT 2x½ PLS BETWEEN E500 & TOP OF FL. BEAM & WELD TOP & BOTT AS NOTED (SEE SECT T-T FOR LOCATION)

E506 (T. E508)

E507 E509

E500

E501

E502 E504

E503 E505

⅜ FIELD WELD

SECT. S-S

ERECTOR:
SET CURB PLS E502 TO E505 VERTICALLY ALONG CENTER PUNCHING ON DAMS E500 & E501 AND ATTACH WITH ⅜ WELD

ERECTOR:
SHIM UP E501 TO LINE UP WITH E500 AND THEN REAM 1⅛ HOLES IN 12C & 9x⅜ PL. TO 15/16 AND DRIVE RIVETS

⅞ FIELD BOLTS WITH 2-HEX. NUTS

2-⅞ BOLTS-HEX. HD. & 2-HEX. NUTS (SEE DETAIL "Y")

FL. BEAM

SECT. P.P- AS SHOWN
" R.R- OPP. HAND

CLEAR FOR NUTS

2½x⅝ THK. WASHER

2-HEX. NUTS

DETAIL "Y"

TOP OF FL. BEAM

SPACING & MARKS SYMM. ABT ℄ RWAY

SPACING OF 2x½ PLS 1'-0" 7@1-6 = 10-6

SECTION T-T

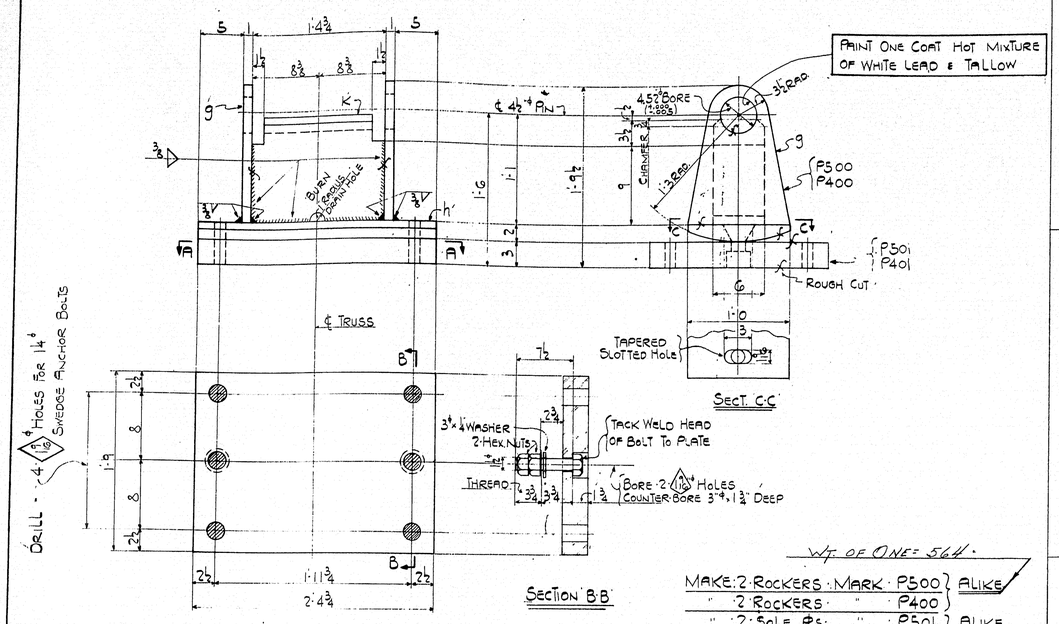
NOTES:
FOR SECTIONS B-B, H-H, & K-K SEE SH.# E104

ARROWSIC BRIDGE OVER SASANOA RIVER
ARROWSIC - WOOLWICH
FED. AID PROJ. No. S-154 (2)
CONTRACT No. 2

SHEET TITLE PLAN OF SIDEWALK STRINGERS, EXPANSION DAM & RAILINGS
LOCATION SPANS 3, 4 & 5
PURCHASER
HARRIS STRUCTURAL STEEL CO., INC.
NEW YORK CITY AND NEW MARKET, N. J.
MADE BY HLJ Date 11/1/50 Hrs
CHECKED BY Date Hrs
CONTRACT NO. C378 SHEET NO. E105

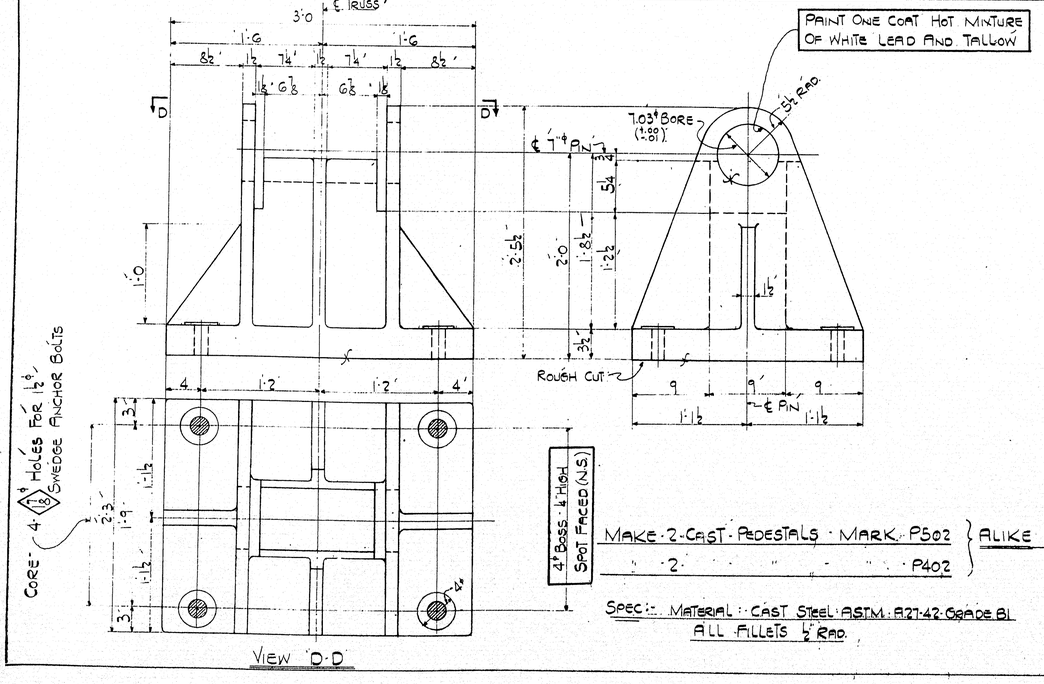
48-111

0 1 2 3 4 5 INCHES



MAKE 2 ROCKERS MARK P500 } ALIKE
" 2 ROCKERS " P400 }
" 2 SOLE PLS " P501 } ALIKE
" 2 SOLE PLS " P401 }

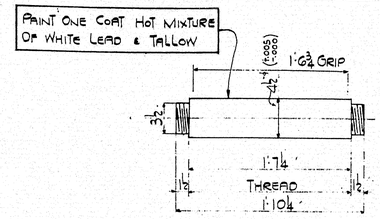
WT OF ONE = 564.
WT OF ONE = 516.



MAKE 2 CAST PEDESTALS MARK P502 } ALIKE
" 2 " " P402 }

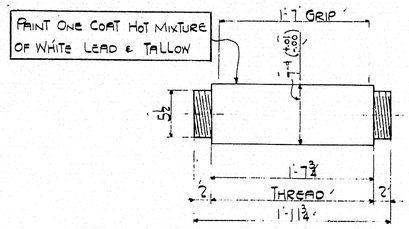
WT OF ONE = 2414.

SPEC:- MATERIAL:- CAST STEEL A.S.T.M. A 27-42 GRADE B1
ALL FILLETS ½" RAD.



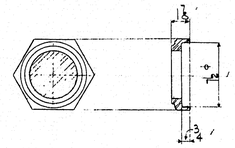
SPEC:- MAT'L SAE-C1020 COLD FINISHED CARBON STEEL
MAKE 2 PINS MARK P503 }
" 2 " " P403 }

WT OF ONE = 95.

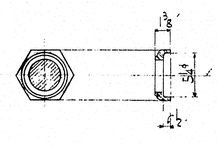


SPEC:- MAT'L SAE-C1020 COLD FINISHED CARBON STEEL
MAKE 2 PINS MARK P504 }
" 2 " " P404 }

WT OF ONE = 244.



8 NUTS MARK PN 29
WT OF ONE = 12.



8 NUTS MARK PN 25
WT OF ONE = 5.

REQ'D No	MARK	MADE UP OF No	PC. MK.	SIZE	LGTH	REMARKS	ORD.	WEIGHT	U.S. WTS.
		8	g	Rs 12 x 1	1'-4½	M-2-E CUT TO FIT ON JOB	9-423-13	450.	139
✓2	P500	4	h	Rs 12 x 2	2'-4¾		-11	783.	101
✓2	P400	4	K	SLAB 12 x G	1'-4¾	FIN: 4-S	-12	1428.	180
		1	WELD	⅜ Δ	35.0			8.	
2	P501	4		SLAB 21 x 3	2'-4¾	WITH 3 ROUGH CUT 1-S	9-423-10	2056.	60
2	P401								
		8	BOLTS	1½" HEX HD	7½	THREAD 3¾"	116-11	40.	
		16	HEX NUTS	FOR 1½" BOLT			116-12	16.	
		8	WASH.	3" O.D. x ½"	1⅛ HOLE			3.	
2	P502		CAST PEDESTALS			AS PER SPEC.	32772	4808.	
2	P402							4808.	
2	P503	2		4½" PIN	1'-10¼		117-10	200.	11
2	P403	2		4½" PIN	1'-10¼		Do	200.	11
		8	STD RECESSED PN NUTS FOR 4½" PN. (PN 25)				120-3	40.	
2	P504	2		7" PIN	1'-11¾		117-9	518.	32
2	P404	2		7" PIN	1'-11¾		Do	518.	32
		8	STD RECESSED PN NUTS FOR 7" PN (PN 29)				120-2	96.	
						Gross Wt.		15972	
						Wt. Ded.		566	
						Net. Wt.		15406	
						Paint		62	
						Tot. Wt.		15468	

GENERAL NOTES:-

SPECIFICATIONS:- CONTRACT SPECIFICATION STATE OF MAINE NOVEMBER 1945.

MATERIAL:- STRUCTURAL CARBON STEEL - A.S.T.M. DESIGNATION A7-42. UNLESS OTHERWISE NOTED

OPEN HOLES:- AS NOTED.

SHOP PAINT:- ONE COAT AS PER SPECIFICATIONS UNLESS OTHERWISE NOTED

L W.

PEDESTALS, PINS & NUTS FOR PIERS

RIVETS DIAM.	OPEN HOLES DIAM.
UNLESS OTHERWISE NOTED	

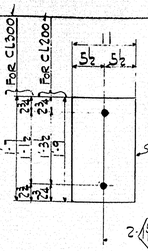
REVISIONS

ARROWSIC BRIDGE
HARRIS STRUCTURAL STEEL CO.
419 FOURTH AVE., N. Y.

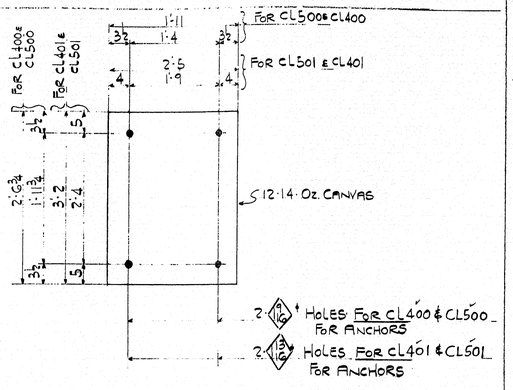
DRAW. MADE BY D DATE 10/26/49
DRAW. CHECKED BY W.P DATE 10-26-49
CONTRACT No. C378 SHEET No. 100

48-112

0 1 2 3 4 5 INCHES

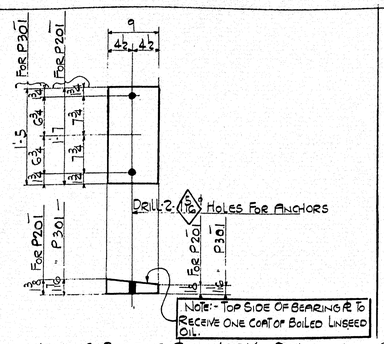


MAKE 45 PIECES OF CANVAS MARK CL200 } Total Wt = 14#
" 45 " " " CL300 }

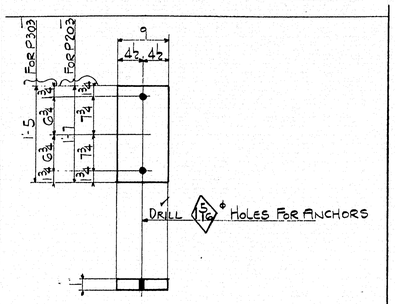


Total Wt = 16#

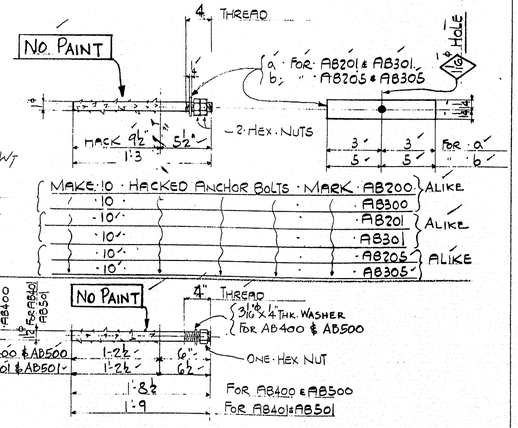
MAKE 6 PIECES OF CANVAS MARK CL400 } ALIKE
" 6 " " " CL500 }
" 6 " " " CL401 } ALIKE
" 6 " " " CL501 }



MAKE 5 BEARING Rs MARK P301 Wt OF ONE = 54
" 5 " " P201 do = 60

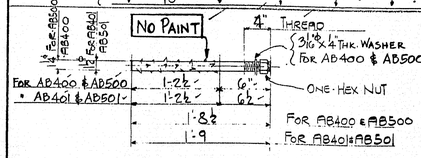


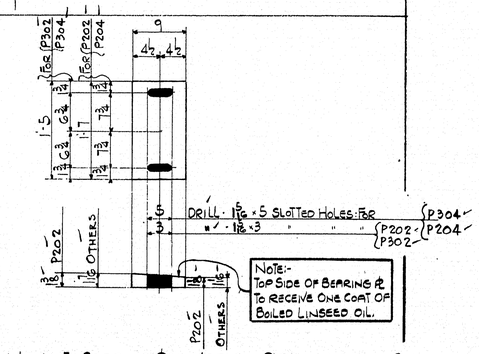
MAKE 10 BEARING Rs MARK P303 Wt OF ONE = 43
" 10 " " P203 do = 48



Total Wt

.95 MAKE 10 HACKED ANCHOR BOLTS MARK AB200 } ALIKE
" 10 " " AB300 }
.95 " 10 " " AB201 } ALIKE
" 10 " " AB301 }
.95 " 10 " " AB205 } ALIKE
" 10 " " AB305 }





MAKE 5 BEARING Rs MARK P302 Wt OF ONE = 53
" 5 " " P304 do 52
" 5 " " P202 do 59
" 5 " " P204 Wt OF ONE = 58

MAKE 8 HACKED ANCHOR BOLTS MARK AB400 } ALIKE Total Wt = 130#
" 8 " " AB500 }
" 8 " " AB401 } ALIKE Total Wt = 185#
" 8 " " AB501 }

	Req'd No	Mark	Made up of No	Pc. Mk	Size	Length	Remarks	Ord	Weight	
	45	CL300	45		11 x 1'-7" Pieces of 12-14 oz Canvas Duck				7 -	
	45	CL200	45		11 x 1'-9" " " " " "			33183	7 -	
	6	CL401	6		2'-5 x 3'-2 " " " " " "				5 -	
	6	CL501	6		2'-5 x 3'-2 " " " " " "				5 -	
	6	CL400	6		1'-11 x 2'-6¾ " " " " " "				3 -	
	6	CL500	6		1'-11 x 2'-6¾ " " " " " "				3 -	
Alike	10	AB200	10		1" ϕ Rod	1'-3		106-10	33 -	
	10	AB300	10		" " "	1'-3	Hack &		33 -	
Alike	10	AB201	10		" " "	1'-3	Thread		33 -	
	10	AB301	10		" " "	1'-3			33 -	
Alike	10	AB205	10		" " "	1'-3			33 -	
	10	AB305	10		" " "	1'-3			33 -	
			20	a	Pl 2½ x ¼	6"	for AB201 & AB301	106-12	21 -	
			20	b	"	10"	" AB205 & AB305	Do	35 -	
			120		Hex. Nuts for 1" ϕ Bolts			106-9	39 -	
	5	P302	5		Bear Pl 9 x 1 6/16	1'-5"	Beveled	106-4	313 -	44
	5	P304	5		" " "	1'-5"	"	-4	313 -	55
	5	P204	5		" " "	1'-7"	"	-3	348 -	60
	5	P202	5		" Pl 9 x 1 3/8	1'-7"	"	-3	333 -	57
	5	P301	5		Bear Pl 9 x 1 6/16	1'-5"	Beveled	106-4	313 -	45
	5	P201	5		" Pl 9 x 1 3/8	1'-7"	Do	106-3	333 -	35
	10	P303	10		Bear Pl 9 x	1'-5"		106-6	435 -	8
	10	P203	10		" Pl 9 x	1'-7"		Do	483 -	8
	8	AB400	8		1¼ ϕ Rod	1'-8½		115-4	57 -	
	8	AB500	8		1¼ ϕ	1'-8½	Hack &	-4	57 -	
	8	AB401	8		1½ ϕ	1'-9	Thread	-5	84 -	
	8	AB501	8		1½ ϕ	1'-9		-5	84 -	
			16		Hex. Nuts for 1¼ ϕ Bolts			115-6	9 -	
			16		" " " 1½ "			115-7	16 -	
			16		Wash. 3 3/16 O.D. x ¼ Thk.		1 5/16 ϕ Hole		7 -	
							Gross Wt		3503 -	
							Wt. Ded.		296 -	
							Net Wt.		3207 -	
							Paint		13 -	
							Tot. Wt.		3220 -	

L W.

ARROWSIC BRIDGE OVER SASANOA RIVER
ARROWSIC - WOOLWICH
FED. AID PROJ. No. S-154 (2)
CONTRACT No. 2

CANVAS DUCK - HACK BOLTS & BEARING Rs

FOR NOTES ON SPECIFICATIONS, MATERIAL, PAINTING, PUNCHING, DRILLING, REAMING, ETC. SEE SHEET X50

ARROWSIC BRIDGE
HARRIS STRUCTURAL STEEL CO.
419 FOURTH AVE., N. Y.

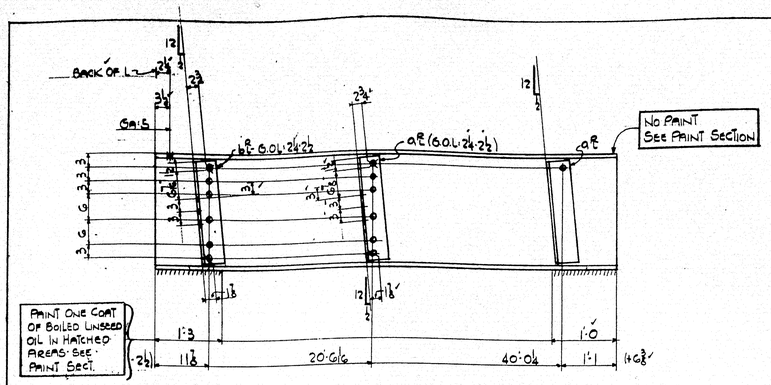
RIVETS DIAM. OPEN HOLES AS NOTED DRWG. UNLESS OTHERWISE NOTED

REVISIONS

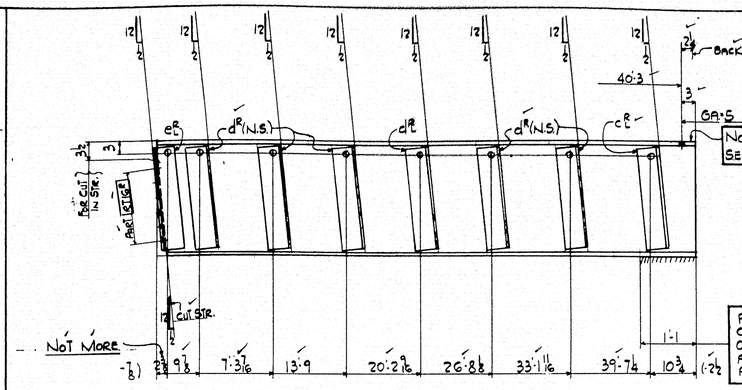
DRAW. MADE BY WB DATE 10-27-49
DRAW. CHECKED BY LFT DATE 12-19-49
CONTRACT No. 5378 SHEET No. 101

48-113

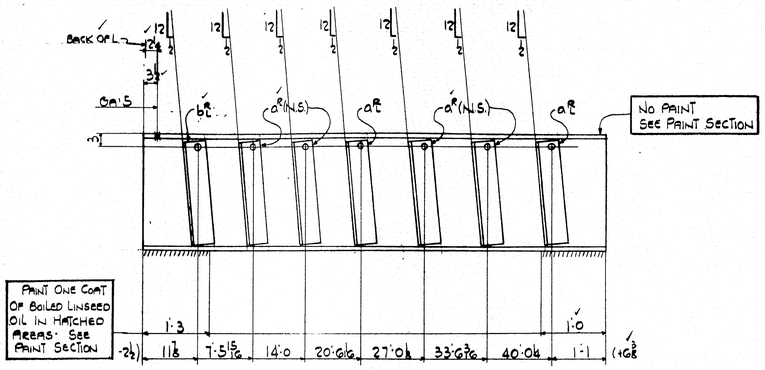
0 1 2 3 4 5 INCHES



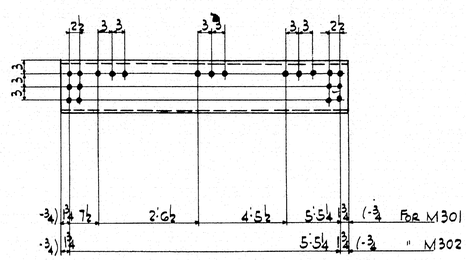
MAKE ONE STRINGER MARK S304
" ONE " " S305
" ONE " " S306
} ALIKE WT. OF ONE 4388#



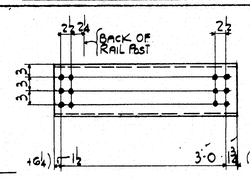
MAKE ONE STRINGER MARK S300 AS SHOWN WT OF ONE 4142
" ONE " " S309 OPP. HAND do 4142



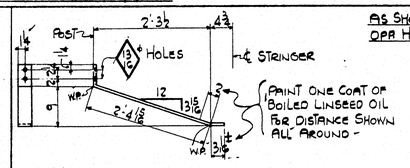
MAKE ONE STRINGER MARK S307 AS SHOWN WT. OF ONE 4182
" ONE " " S308 OPP. HAND do 4182



MAKE 8 DIAPHRAGMS MARK M301 WT. OF ONE 140#
" 12 " " M302 do 140#

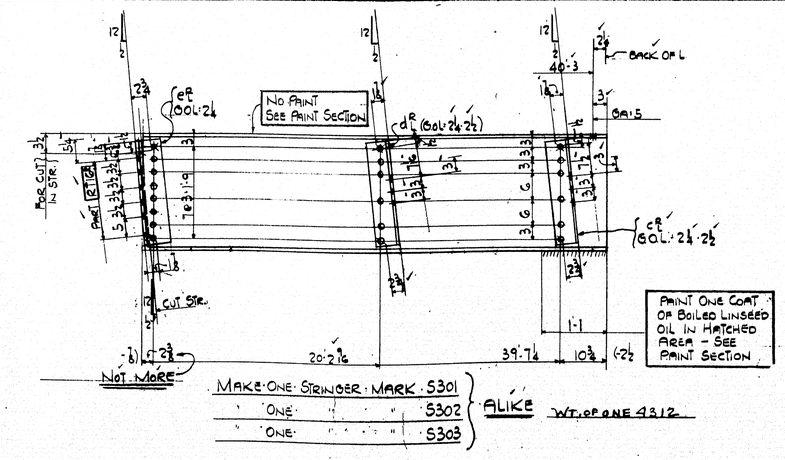


M303 WT. OF ONE 79#
M300 do 79#
MAKE 14 BRACKETS MARK M303 AS SHOWN
" 14 " " M300 OPP. HAND

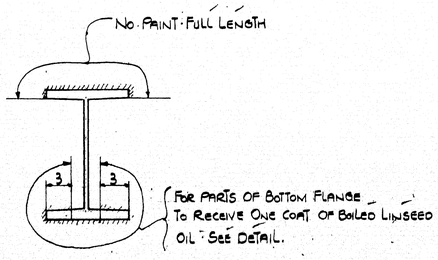


AS SHOWN
OPP HAND
NO PAINT EXCEPT AS NOTED
MAKE 28 BARS MARK M304
WT. OF ONE 10

RT 16R



MAKE ONE STRINGER MARK S301
" ONE " " S302
" ONE " " S303
} ALIKE WT. OF ONE 4312



PAINT SECTION

No	Reqd MARK	No	Made Up Of Pc MK	Size	Lgth.	Remarks	ORD	Weight
1	S304	1		27B102	41:1¼		9-418-70	4192
1	S305	1		Do	41:1¼		↓	4192
1	S306	1		27B102	41:1¼		↓	4192
		12	a^R	L6×4×7/16	2:0		105-21	343
		6	b^R	L6×4×7/16	2:0		Do	172
		54	RIVETS	⅞				19
1	S307	1		27B94	41:1¼		9-418-72	3863
1	S308	1		27B94	41:1¼		Do	3863
		16	a^R				105-21	458
		4	b^R				Do	114
		84	RIVETS	⅞				30
1	S301	1		27B102	40:6		9-418-71	4131
1	S302	1		Do	40:6		↓	4131
1	S303	1		27B102	40:6		↓	4131
		6	c^R	L6×4×7/16	2:0		105-21	172
		6	d^R	L6×4×7/16	2:0		Do	172
		6	e^R	L4×3½×7/16	2:0		9-418-79	127
		60	RIVETS	⅞				22
1	S300	1		27B94	40:6		9-418-73	3807
1	S309	1		27B94	40:6		Do.	3807
		4	c^R				105-21	114
		14	d^R				Do.	400
		4	e^R				9-418-79	85
		100	RIVETS	⅞				36
8	M301	8		12C25	5:7		9-418-76	1116
12	M302	12		12C25	5:7		Do	1674
14	M303	14		12C25	3:1¾		9-418-77	1103
14	M300	14		Do	3:1¾		Do	1103
28	M304	28		Bar 2½×⅜	3:1½	Bent	105-24	280
						Gross wt		47849
						Wt Ded		
						Net wt		47849
						Paint		191
						Total Wt		48040

Cuts

FOR NOTES ON SPECIFICATIONS, MATERIAL, PAINTING, PUNCHING, DRILLING, REAMING, ETC. SEE SHEET X50
ALL RIVET HOLES & OPEN HOLES PUNCHED FULL SIZE UNLESS NOTED RT

ARROWSIC BRIDGE OVER SASANOA RIVER
ARROWSIC - WOOLWICH
FED. AID PROJ. No. S-154 (2)
CONTRACT No. 2

SOUTH APPROACH (SPANS 6 & 7)
STRINGERS · DIAPHRAGMS · ETC.

RIVETS ⅞ DIAM. OPEN HOLES 15/16 DIAM. → UNLESS OTHERWISE NOTED

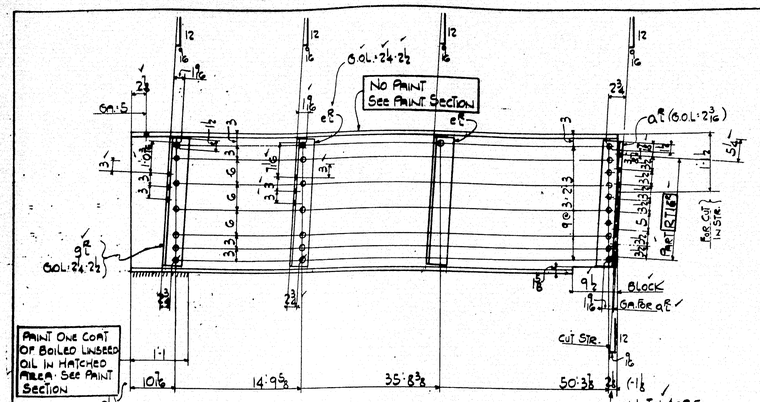
HARRIS STRUCTURAL STEEL CO.
619 FOURTH AVE., N. Y.

REVISIONS

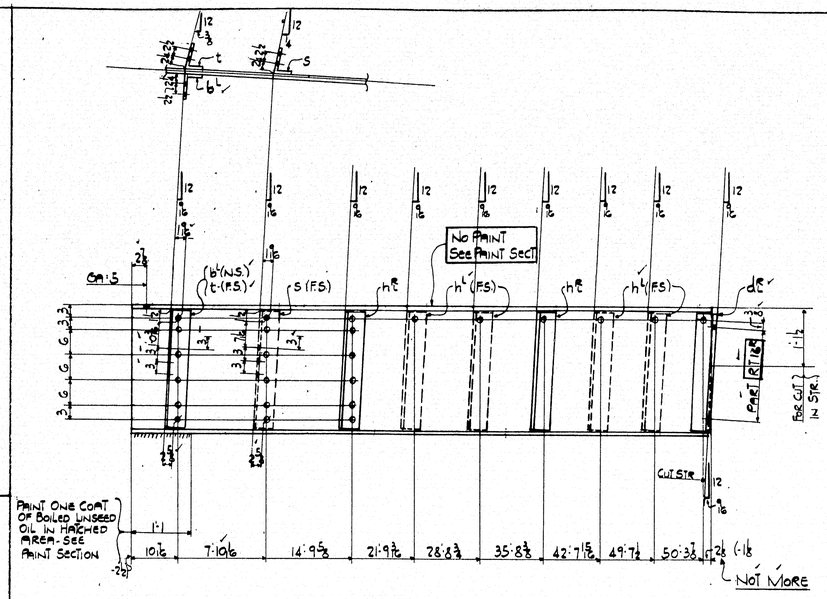
DRAW. MADE BY WB DATE 11-28-49
DRAW. CHECKED BY ET DATE 1-5-50
CONTRACT No. C318 SHEET No. 102

0 1 2 3 4 5 INCHES

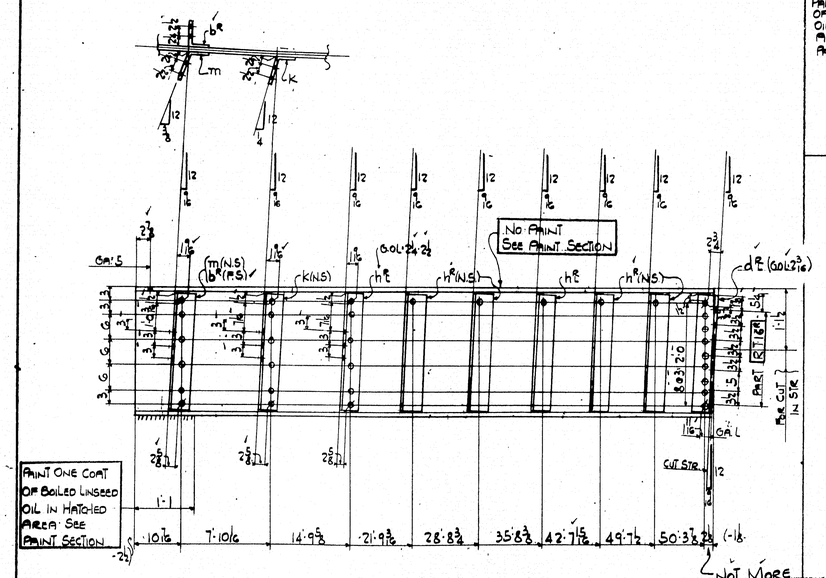
48-114



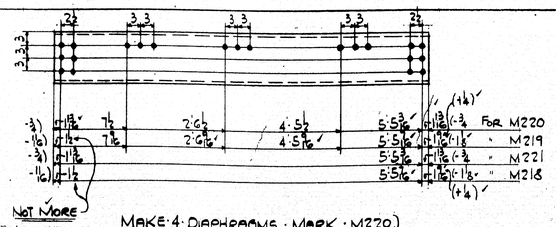
MAKE ONE STRINGER : MARK 5207 } ALIKE Wt of One = 6871.
" " 2 " " 5206 }



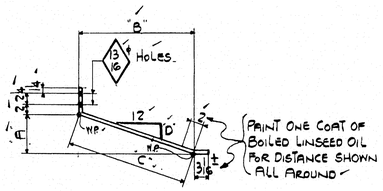
MAKE ONE STRINGER : MARK 5204 Wt of One = 6305.



MAKE ONE STRINGER : MARK 5205 Wt of One = 6305.

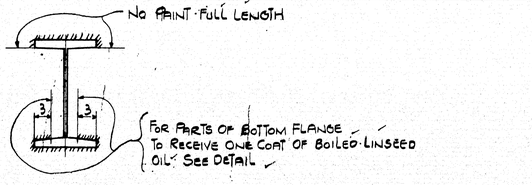


MAKE 4 DIAPHRAGMS : MARK M220 }
" 4 " " M219 }
" 8 " " M221 } Wt of One = 140.
" 12 " " M218 }



MARK	DIM A	DIM B	DIM C	DIM D
M240	10	2'-3¼	2'-5	4⅜
M241	1'-0¼	2'-3¼	2'-5⅛	5⅜
M242	9	2'-6½	2'-7⅛	3⅜
M243	1'-0	2'-11¼	3'-1¼	4⅛
M244	1'-2½	2'-8	2'-11⅛	5⅛
M245	11½	2'-3½	2'-5⅛	5
M246	1'-1	1'-8½	2'-0¼	7⅜
M247	1'-3½	1'-8½	2'-11⅛	9⅛
M248	1'-6¼	2'-2¼	2'-8	8⅝

MAKE 12 BARS : MARK M240 Wt of One = 10.
" 3 " " M241 = 11.
" 2 " " M242 = 11.
" 5 " " M243 = 12.
" 2 " " M244 = 12.
" 2 " " M245 = 10.
" 2 " " M246 = 9.
" 2 " " M247 = 9.
" 2 " " M248 = 11.



PAINT SECTION

	No	Mark	Req'd No	Pc Mk	Size	Length	Remarks	Ord.	Weight
ALIKE	1	S207	1		33B130	50'-6		9-418-67	6565.
	2	S206	2		33B130	50'-6		Do	13130.
			6	a^R	L 4 x 3½ x 7/16	2'-6		9-418-79	159.
			12	e^R	L 6 x 4 x 7/16	2'-6		105-21	429.
			6	g^R	L 6 x 4 x 7/16	2'-6		Do	215.
			93	Rivets	7/8"				33.
	1	S205	1		30B116	50'-6		9-418-69	5858.
			2	d^R	L 4 x 3½ x 7/16	2'-3		9-418-79	48.
			1	m	L 6 x 4 x 7/16	2'-3	Bent	105-21	32.
			1	k	L 6 x 4 x 7/16	2'-3	Bent		32.
			8	h^R	L 6 x 4 x 7/16	2'-3	Gr^R 2½		257.
			1	b^R	Do	2'-3			32.
			57	Rivets	7/8"				21.
	4	M220	4		12 [25	5'-7		9-418-76	558.
	4	M219	4		Do	5'-7			558.
	8	M221	8		}	5'-7			1116.
	12	M218	12		}	5'-7			1674.
	1	S204	1		30B116	50'-6		9-418-69	5858.
			1	b^L				105-21	32.
			1	t	L 6 x 4 x 7/16	2'-3	Bent		32.
			1	s	L 6 x 4 x 7/16	2'-3	Bent		32.
			8	h^R			Gr^R 2½		257.
			2	d^R				9-418-79	48.
			57	Rivets	7/8"				21.
	12	M240	12		Bar 2½ x ⅜	3'-1½	Bent	105-24	120.
	3	M241	3			3'-2½			31.
	2	M242	2			3'-4⅜			22.
	5	M243	5			3'-9⅜			61.
	2	M244	2			3'-7⅜			23.
	2	M245	2			3'-2⅜			20.
	2	M246	2			2'-8⅜			17.
	2	M247	2			2'-10¼			18.
	2	M248	2			3'-4½			22.
								Gross Wt.	37331.
								Wt. D.E.D.	
								Net Wt.	37331.
								Paint	149.
								Total Wt.	37480.

RT 16^E

ARROWSIC BRIDGE OVER SASANOA RIVER
ARROWSIC - WOOLWICH
FED. AID PROJ. No. S-154 (2)
CONTRACT No. 2

NORTH APPROACH (SPANS 1 & 2)
STRINGERS, DIAPHRAGMS - ETC.

FOR NOTES ON SPECIFICATIONS, MATERIAL, PAINTING, PUNCHING, DRILLING, REAMING, ETC. SEE SHEET X50
ALL RIVET HOLES & OPEN HOLES PUNCHED FULL SIZE UNLESS NOTED RT

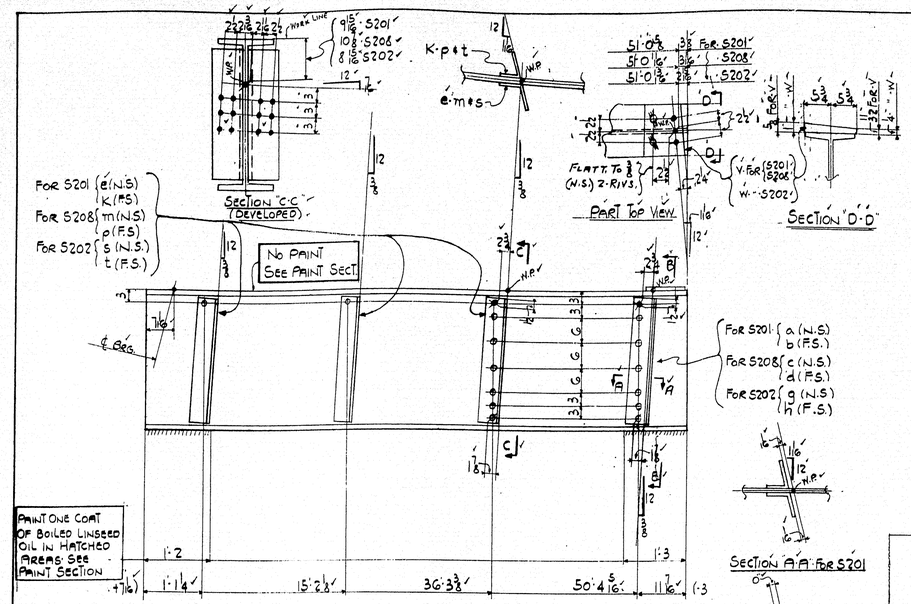
Rivets 7/8 Diam. Open Holes 15/16 Diam. or Unless Otherwise Noted

MAINE STRUCTURAL STEEL CO.
420 FOURTH AVE., N. Y.

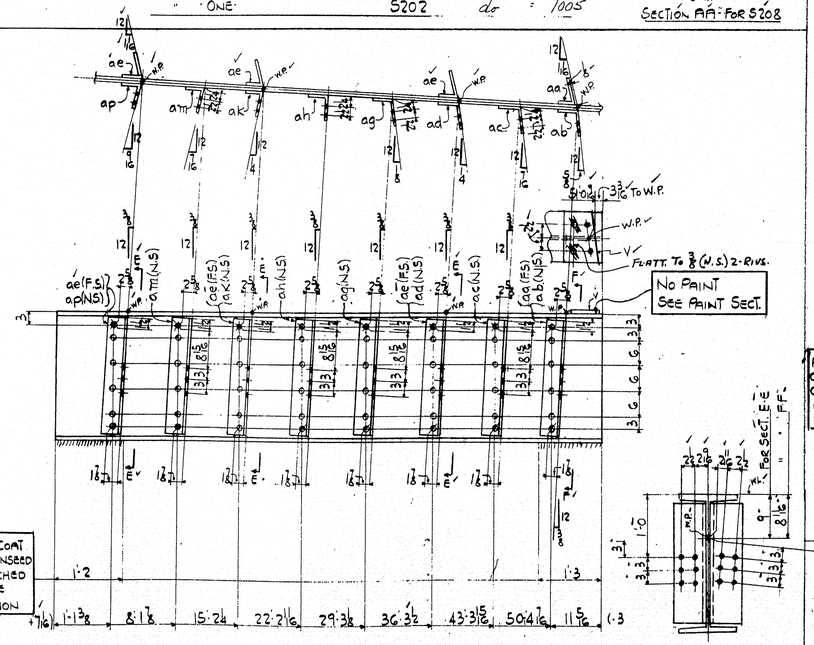
REVISIONS		

DRAWN MADE BY WB DATE 11-29-49
DRAWN CHECKED BY RT DATE 1-6-50
CONTRACT No. C3716 SHEET No. 103

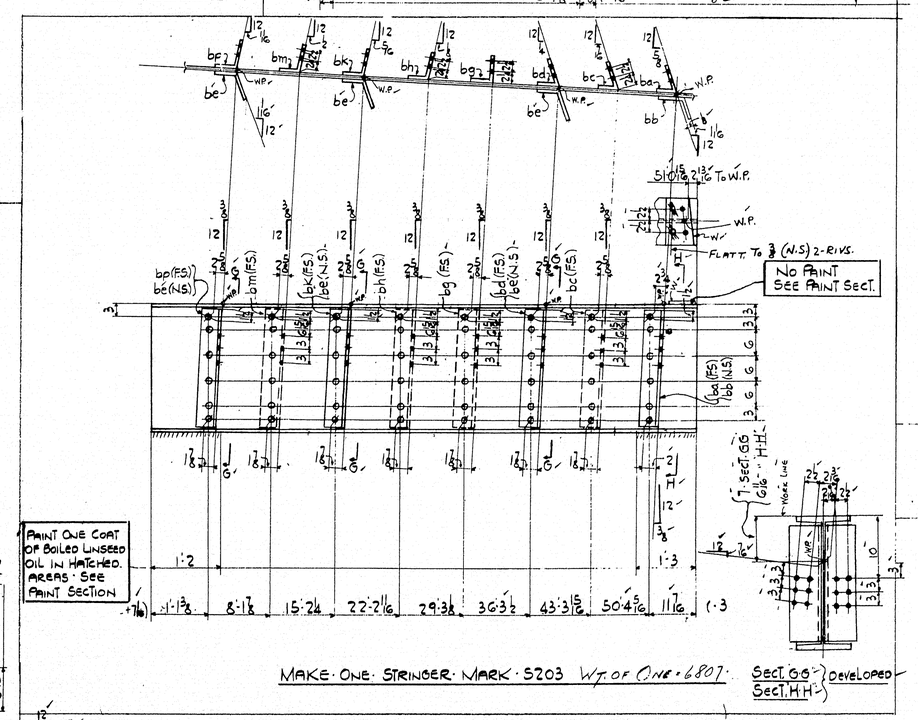
48-115



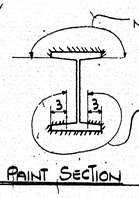
MAKE ONE STRINGER MARK S201 Wt OF ONE = 7005
" ONE S208 do = 7005
" ONE S202 do = 7005



MAKE ONE STRINGER MARK S200 Wt OF ONE = 6803

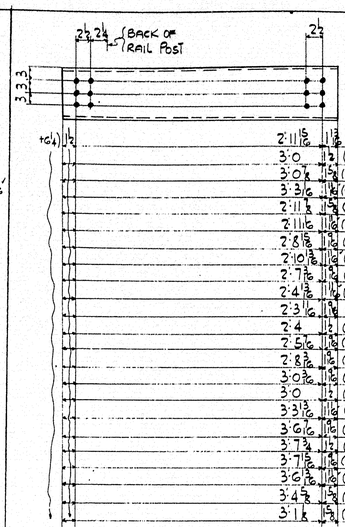


MAKE ONE STRINGER MARK S203 Wt OF ONE = 6807



PAINT SECTION

FOR NOTES ON SPECIFICATIONS, MATERIAL, PAINTING, PUNCHING, DRILLING, REAMING, ETC. SEE SHEET X50



Req'd No	Mark	Made Up of No	Pc Mk	Size	Length	Remarks	Ord.	Weight
5	M216	5		12 C 25	3'-1 3/4"		9-418-77 Do -75	394
5	M249	5		12 C 25	3'-1 3/4"		9-418-75	394
1	M230	1		DO	3'-1"		9-418-74	78
1	M229	1			3'-2 1/2"			80
1	M228	1			3'-4 3/4"			85
1	M233	1			3'-1"			78
1	M232	1			3'-0 3/4"			77
1	M231	1			2'-10 1/2"			72
1	M207	1			3'-0 3/4"			76
1	M206	1			2'-8 3/4"			68
1	M205	1			2'-6 1/2"			64
1	M204	1			2'-5 1/4"			61
1	M203	1			2'-5 1/2"			62
1	M202	1			2'-7"			65
1	M201	1			2'-9 3/4"			70
1	M200	1			3'-1 3/4"		9-418-77	79
1	M215	1			3'-1"		9-418-74	78
1	M214	1			3'-5 1/2"		Do -75	87
1	M213	1			3'-8"		9-418-74	92
1	M212	1			3'-9 1/4"			94
1	M211	1			3'-9 1/2"			95
1	M210	1			3'-8 1/2"			93
1	M209	1			3'-6 1/4"			88
1	M208	1		12 C 25	3'-2 3/4"		9-418-75	81
ONE	S201	ONE		33 B 130	51'-3 3/4"		9-418-66	6670
ONE	S208	ONE		"	51'-3 3/4"			6670
ONE	S202	ONE		"	51'-3 3/4"			6670
		2	V	FILL 11/16 x 5/8	6'-3"	BENT S201-S208 S202	9-418-19 9-418-14 105-21	27
		1	W	LGS 4 x 7/16	2'-6"	BENT S201		83
		1	aa		2'-6"			32
		1	ab		2'-6"	S208		32
		1	ac		2'-6"			32
		1	ad		2'-6"	S202		32
		1	ae		2'-6"			32
		1	af		2'-6"	S201		107
		1	ag		2'-6"			107
		1	ah		2'-6"	S208		107
		1	ak		2'-6"			107
		1	am		2'-6"	S202		107
		1	ap		2'-6"			107
		90	RIVS	7/8"				32
ONE	S200	ONE		30 B 124	51'-3 3/4"		9-418-68	6362
		1	V			BEV BENT	119-19 105-27	14
		1	aa	LGS 4 x 7/16	2'-3"			33
		1	ab		2'-3"			33
		1	ac		2'-3"			33
		1	ad		2'-3"			33
		1	ae		2'-3"			33
		1	af		2'-3"			33
		1	ag		2'-3"			33
		1	ah		2'-3"			33
		1	ak		2'-3"			33
		1	am		2'-3"			33
		1	ap		2'-3"			33
		1	ar		2'-3"			33
		50	RIVS	7/8"				18
ONE	S203	ONE		30 B 124	51'-3 3/4"		9-418-68	6362
		1	W			BEV BENT	118-22 105-27	22
		1	bb	LGS 4 x 7/16	2'-3"			33
		1	bc		2'-3"			33
		1	be		2'-3"			33
		1	bd		2'-3"			33
		1	bg		2'-3"			33
		1	bh		2'-3"			33
		1	bk		2'-3"			33
		1	bm		2'-3"			33
		1	bp		2'-3"			33
		1	bq		2'-3"			33
		1	br		2'-3"			33
		1	bt		2'-3"			33
		1	bv		2'-3"			33
		1	bx		2'-3"			33
		1	by		2'-3"			33
		1	bz		2'-3"			33
		1	ca		2'-3"			33
		1	cb		2'-3"			33
		1	cc		2'-3"			33
		1	cd		2'-3"			33
		1	ce		2'-3"			33
		1	cf		2'-3"			33
		1	cg		2'-3"			33
		1	ch		2'-3"			33
		1	ck		2'-3"			33
		1	cm		2'-3"			33
		1	cp		2'-3"			33
		1	cr		2'-3"			33
		1	ct		2'-3"			33
		1	cv		2'-3"			33
		1	cx		2'-3"			33
		1	cy		2'-3"			33
		1	cz		2'-3"			33
		1	da		2'-3"			33
		1	db		2'-3"			33
		1	dc		2'-3"			33
		1	dd		2'-3"			33
		1	de		2'-3"			33
		1	df		2'-3"			33
		1	dg		2'-3"			33
		1	dh		2'-3"			33
		1	dk		2'-3"			33
		1	dm		2'-3"			33
		1	dp		2'-3"			33
		1	dq		2'-3"			33
		1	dr		2'-3"			33
		1	dt		2'-3"			33
		1	dv		2'-3"			33
		1	dx		2'-3"			33
		1	dy		2'-3"			33
		1	dz		2'-3"			33
		1	ea		2'-3"			33
		1	eb		2'-3"			33
		1	ec		2'-3"			33
		1	ed		2'-3"			33
		1	ee		2'-3"			33
		1	ef		2'-3"			33
		1	eg		2'-3"			33
		1	eh		2'-3"			33
		1	ek		2'-3"			33
		1	em		2'-3"			33
		1	ep		2'-3"			33
		1	er		2'-3"			33
		1	et		2'-3"			33
		1	ev		2'-3"			33
		1	ex		2'-3"			33
		1	ey		2'-3"			33
		1	ez		2'-3"			33
		50	RIVS	7/8"				18

GROSS WT. 37026
WT. DED. 27
NET WT. 36999
PAINT 148
TOTAL WT. 37147

ARROWSIC BRIDGE OVER SASANOA RIVER
ARROWSIC - WOOLWICH
FED. AID PROJ. No. S-154 (2)
CONTRACT No. 2

NORTH APPROACH (SPANS 1 & 2)
STRINGERS & BRACKET Cs

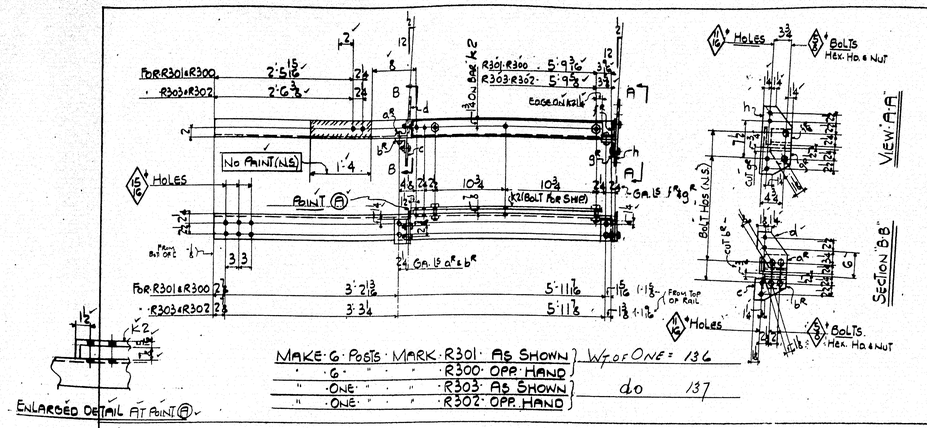
RIVETS 7/8 DIAM. OPEN HOLES 15/16 DIAM. UNLESS OTHERWISE NOTED

HARRIS STRUCTURAL STEEL CO.
419 FOURTH AVE., N. Y.

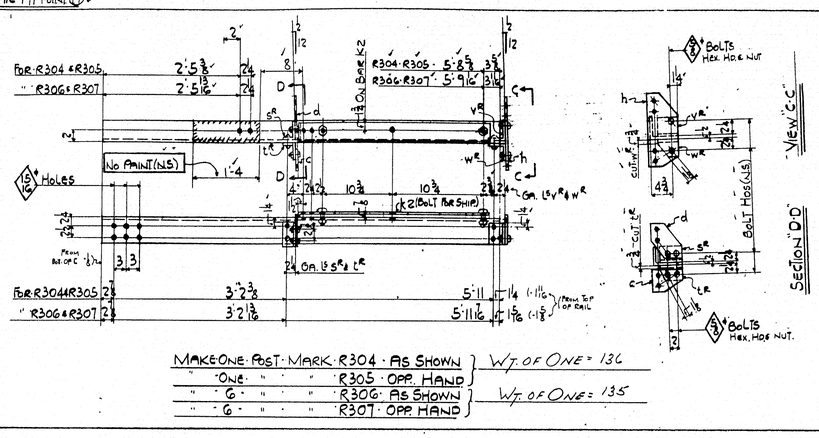
REVISIONS

DRAW. MADE BY WB DATE 12/6/49
DRAW. CHECKED BY FT DATE 1-6-50
CONTRACT No. C318 SHEET No. 104

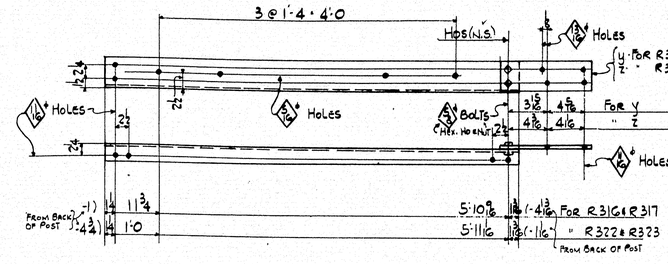
48-116



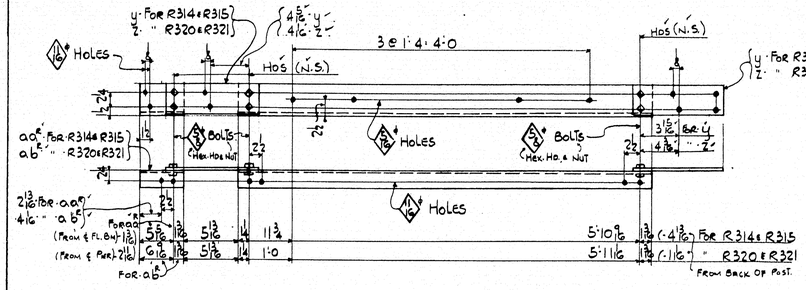
MAKE 6 POSTS MARK R301 AS SHOWN } Wt of One = 136
" 6 " " R300 OPP HAND }
" ONE " " R303 AS SHOWN } do 137
" ONE " " R302 OPP HAND }



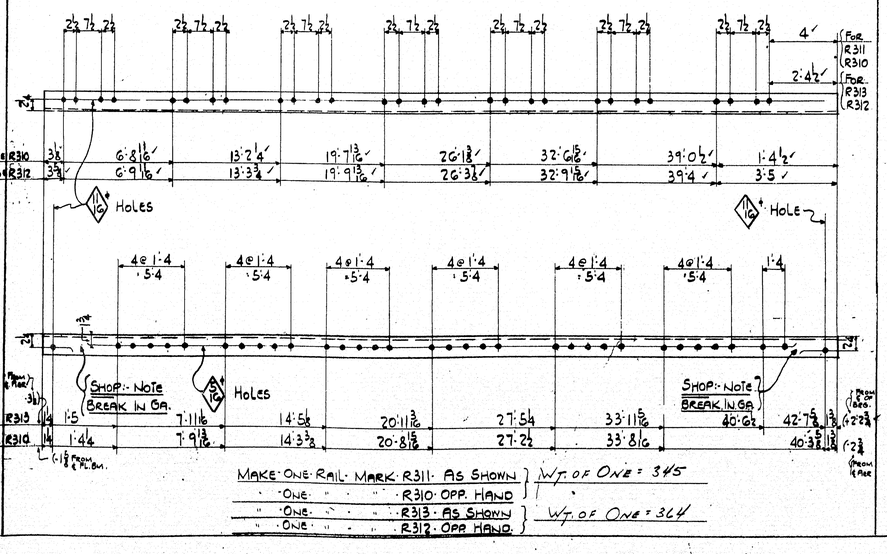
MAKE ONE POST MARK R304 AS SHOWN } Wt of One = 136
" ONE " " R305 OPP HAND }
" 6 " " R306 AS SHOWN } Wt of One = 135
" 6 " " R307 OPP HAND }



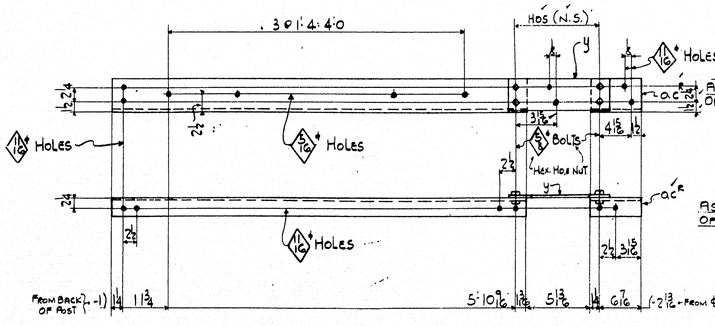
MAKE 4 RAILS MARK R317 AS SHOWN } Wt of One = 67
" 4 " " R316 OPP HAND }
" 5 " " R323 AS SHOWN } Wt of One = 68
" 5 " " R322 OPP HAND }



MAKE ONE RAIL MARK R315 AS SHOWN } Wt of One 78
" ONE " " R314 OPP HAND }
" ONE " " R321 AS SHOWN } Wt of One 80
" ONE " " R320 OPP HAND }



MAKE ONE RAIL MARK R311 AS SHOWN } Wt of One = 345
" ONE " " R310 OPP HAND }
" ONE " " R313 AS SHOWN } Wt of One = 364
" ONE " " R312 OPP HAND }



MAKE ONE RAIL MARK R319 AS SHOWN } Wt of One = 74
" ONE " " R318 OPP HAND }

FOR NOTES ON SPECIFICATIONS, MATERIAL, PAINTING, PUNCHING, DRILLING, REAMING, ETC. SEE SHEET X50

	Req'd		Made Up Of							
	No	Mark	No	Pc. Mk.	Size	Length	Remarks	Ord.	Weight	
As Shown	6	R301	6		L 6 x 4 x ½	6'-10¾		108-3	589	-
Opp. Hand	6	R300	6		" " "	6'-10¾		"	589	-
As Shown	One	R303	One		" " "	6'-1¼		"	99	-
Opp. Hand	One	R302	One		" " "	6'-1¼		"	99	-
			14	a^R	L 3½ x 3½ x ⅝	5'-4	Bent	108-8	44	-
			14	b^R	L 3½ x 3½ x ⅝	5'-4	Bent	Do	44	-
			14	c	Pl C 3/8 x 5/16	5		9-419-43	40	6
			14	d	Pl C 3/8 x 5/16	8'-4		Do	65	19
			14	f^R	L 3½ x 3½ x ⅝	5	Bent	108-8	42	-
			14	g^R	L 3½ x 3½ x ⅝	5	Bent	Do	42	4
			14	h	Pl 6¼ x ⅝	1'-3		9-419-43	116	15
			14	K2	Bar 3½ x ⅝	2'-6 (Abt)	Bent 108-13 Same as Sh #27		130	-
			56	Rivs	¾				13	-
			84	Bolts	⅞	1½	Hex Hd & Nut	123-13	15	-
			28	Bolts	¾	2½			9	-
As Shown	One	R304	One		L 6 x 4 x ½	6'-0¼		108-3	98	-
Opp. Hand	One	R305	One		" " "	6'-0¼		"	98	-
As Shown	6	R306	6		" " "	6'-0¾		"	589	-
Opp. Hand	6	R307	6		" " "	6'-0¾		"	589	-
			14	s^R	L 3½ x 3½ x ⅝	5'-4	Bent	108-8	44	-
			14	t^R	L 3½ x 3½ x ⅝	5'-4	Bent	Do	44	-
			14	d				9-419-43	65	19
			14	c				Do	40	6
			14	v^R	L 3½ x 3½ x ⅝	5	Bent	108-8	42	-
			14	w^R	L 3½ x 3½ x ⅝	5	Bent	Do	42	4
			14	h				9-419-43	116	15
			14	K2				108-13	130	-
			56	Rivs	¾				13	-
			84	Bolts	⅞	1½	Hex. Hd. & Nut	123-13	15	-
			28	Bolts	¾	2½			9	-
As Shown	One	R311	One		L 3½ x 3½ x 7/16	40'-5		108-5	344	-
Opp. Hand	One	R310	One		" " "	40'-5		"	344	-
As Shown	One	R313	One		" " "	42'-9		"	363	-
Opp. Hand	One	R312	One		" " "	42'-9		"	363	-
As Shown	4	R317	4		L 5 x 3½ x ⅜	5'-11¾		9-418-87	249	-
Opp. Hand	4	R316	4		" " "	5'-11¾		"	249	-
As Shown	5	R323	5		" " "	6'-0¼		"	313	-
Opp. Hand	5	R322	5		" " "	6'-0¼		"	313	-
			8	y	Bar 4¾ x 5/16	10¾	For R316 & R317	9-419-43	36	-
			10	z	Bar 4¾ x 5/16	10¾	" R322 & R323	Do	45	-
			36	Bolts	⅝	1½	Hex Hd & Nut	123-13	6	-
As Shown	One	R315	One		L 5 x 3½ x ⅜	5'-11¾		9-418-87	62	-
Opp. Hand	One	R314	One		" " "	5'-11¾		"	62	-
As Shown	One	R321	One		" " "	6'-0¼		"	63	-
Opp. Hand	One	R320	One		" " "	6'-0¼		"	63	-
			4	y			For R314 & R315	9-419-43	18	-
			4	z			For R320 & R321	Do	18	-
			2	a^R c^R	L 5 x 3½ x ⅜	6'-½	" R314 & R315	9-418-87	11	-
			2	a^L c^L	Do	7'-¾	" R320 & R321	Do	14	-
			24	Bolts	⅝	1½	Hex Hd & Nut	123-13	4	-
As Shown	One	R319	One		L 5 x 3½ x ⅜	5'-11¾		9-418-87	62	-
Opp. Hand	One	R318	One		Do	5'-11¾		Do	62	-
			2	y				9-419-43	9	-
			2	a^L c^L	L 5 x 3½ x ⅜	7'-1/16		9-418-87	13	-
			8	Bolts	⅝	1½	Hex Hd & Nut	123-13	1	-

Gross Wt. 6957
Wt. Ded. 88
Net Wt. 6869
Paint 27
Total Wt. 6896

ARROWSIC BRIDGE OVER SASANOA RIVER
ARROWSIC - WOOLWICH
FED. AID PROJ. No. S-154 (2)
CONTRACT No. 2

RAILING SOUTH APPROACH (SPANS 6 & 7)

Rivets ¾ diam. open holes 13 diam. unless otherwise noted 16

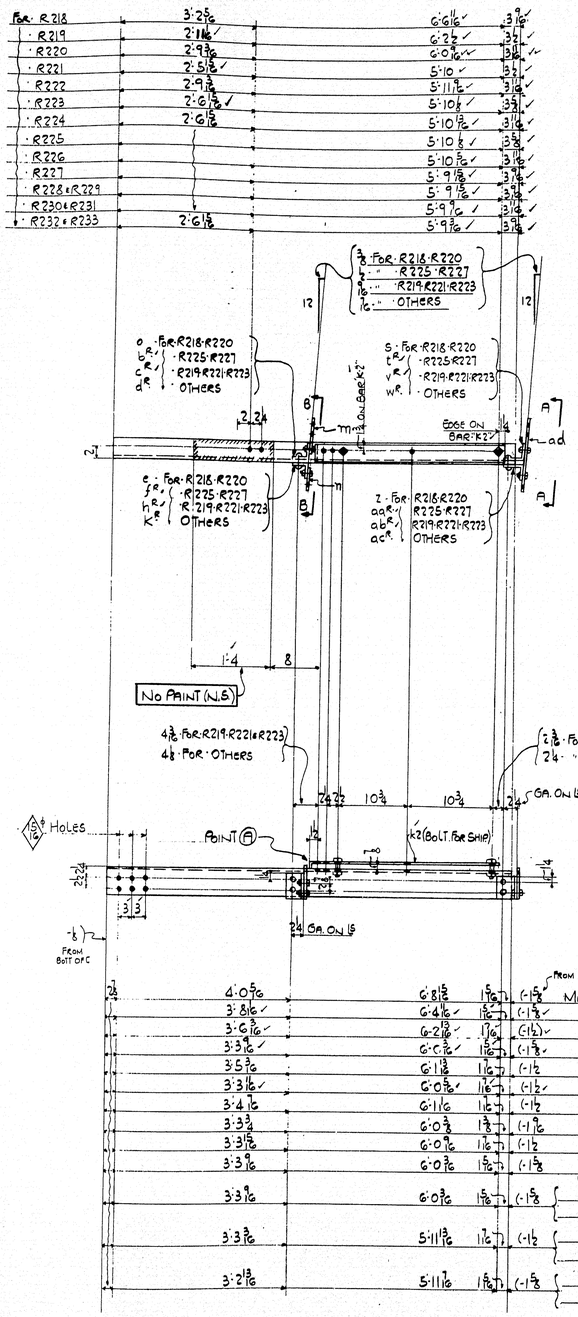
HARRIS STRUCTURAL STEEL CO.
419 FOURTH AVE., N. Y.

REVISIONS

DRAW. MADE BY WB DATE 12-14-49
DRAW. CHECKED BY FT DATE 1-5-50
CONTRACT No. C376 SHEET No. 105

48-117

0 1 2 3 4 5 INCHES



	Req'd No	Mark	Made up of No	Pc. Mk.	Size	Length	Remarks	Ord.	Weight
As Shown	One	R218	One		L 6 x 4 x 1/2	6'-10 1/2		108-3	111.-
Opp. Hand	One	R219	One			6'-6			105.-
As Shown	One	R220	One			6'-4 4			103.-
Opp. Hand	One	R221	One			6'-1 1/2			99.-
As Shown	One	R222	One			6'-3 1/4			102.-
Opp. Hand	One	R223	One			6'-1 3/4			100.-
As Shown	One	R224	One			6'-2 1/2			101.-
Opp. Hand	One	R225	One			6'-1 3/4			100.-
As Shown	One	R226	One			6'-2			100.-
Opp. Hand	One	R227	One			6'-1 1/2			99.-
As Shown	One	R228	One			6'-1 1/2			99.-
Opp. Hand	One	R229	One			6'-1 1/2			99.-
As Shown	One	R230	One			6'-1 4			99.-
Opp. Hand	One	R231	One			6'-1 4			99.-
As Shown	One	R232	One			6'-0 3/4			98.-
Opp. Hand	One	R233	One			6'-0 3/4			98.-
			2	a	L 3 1/2 x 3 1/2 x 5/16	5 1/4	Bent for R218-R220	108-8	6.-
			2	b L		5 1/4	R225/R227 R223		6.-
			3	c L		5 1/4	R219-R221		10.-
			9	d R		5 1/4	Gr. 3 1/2 Others		29.-
			2	e	L 3 1/2 x 3 1/2 x 5/16	5 1/4	Bent for R218-R220		6.-
			2	f L		5 1/4	R225/R227 R223		6.-
			3	h L		5 1/4	R219-R221		10.-
			9	K R		5 1/4	Gr. 3 1/2 Others		29.-
			16	m	PG 3/8 x 5/16	8 1/4		9-419-43	175.-
			16	n	"	5		Do	46.-
			16	K 2	Bar 3 1/4 x 5/16	2'-6 (Adj.)	Bent	108-13	149.-
			16	ad	PG 6 x 5/16	1'-3		9-419-43	133.-
			2	s	L 3 1/2 x 3 1/2 x 5/16	5	Bent for R218-R220	108-8	6.-
			2	t L		5	R225/R227 R223		6.-
			3	v L		5	R219-R221		9.-
			9	w R		5	Gr. 3 1/2 Others		27.-
			2	z	L 3 1/2 x 3 1/2 x 5/16	5	Bent for R218-R220		6.-
			2	aa L		5	R225/R227 R223		6.-
			3	ab L		5	R219-R221		9.-
			9	ac R		5	Gr. 3 1/2 Others		27.-
			64	Rivs	3/4 ϕ				15.-
			96	Bolts	5/8 ϕ	1 1/2	Hex Hd & Nut	123-13	17.-
			32	Bolts	3/4 ϕ	2 1/2			10.-
							Gross Wt		2255.-
							Wt. Ded.		62.-
							Net Wt.		2193.-
							Paint		9.-
							Total Wt.		2202.-

J2 Cu's

J
B

ARROWSIC BRIDGE OVER SASANOA RIVER
ARROWSIC - WOOLWICH
FED. AID PROJ. No. S-154 (2)
CONTRACT No. 2

RAILING · NORTH APPROACH (SAAN 2)

FOR NOTES ON SPECIFICATIONS, MATERIAL, PAINTING, PUNCHING, DRILLING, REAMING, ETC. SEE SHEET X 50

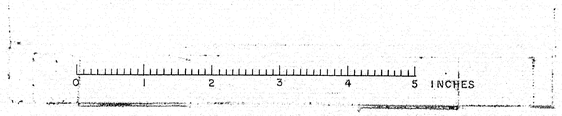
Rivets 3/4 Diam. Open Holes 13/16 Diam. unless otherwise noted

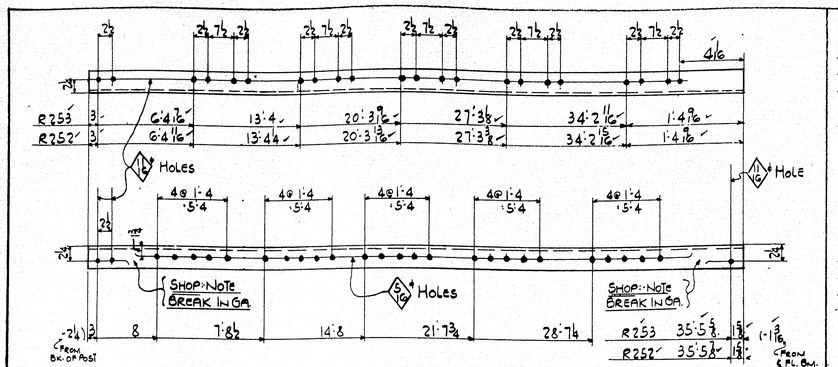
REVISIONS

HARRIS STRUCTURAL STEEL CO.
619 FOURTH AVE., N. Y.

Draw. made by WB Date 12-23-49
Draw. checked by FT Date 1-16-50
Contract No. C378 Sheet No. 106

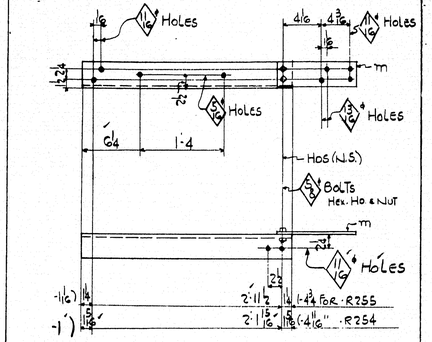
48-118





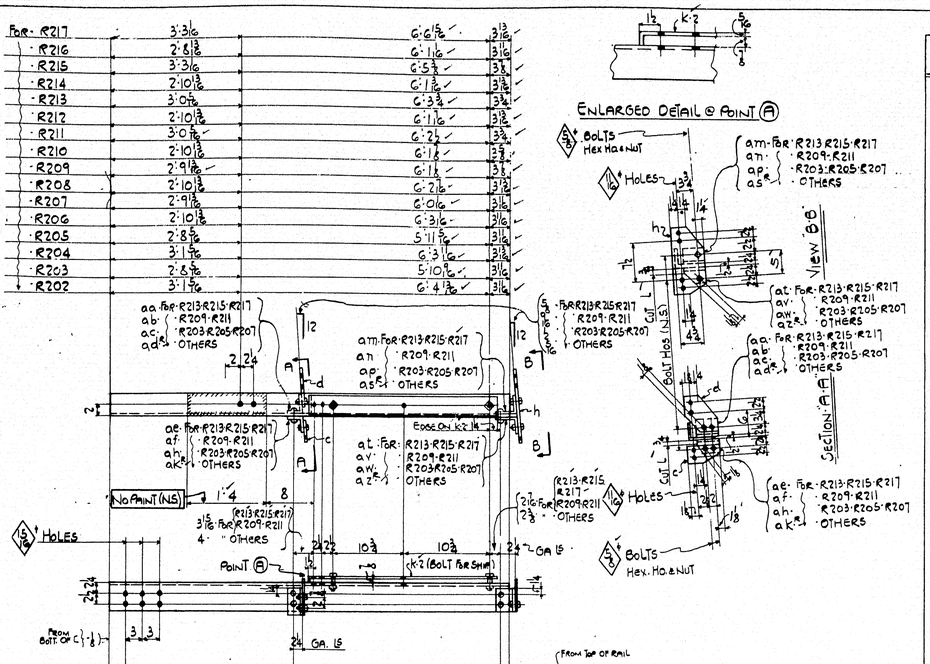
MAKE ONE RAIL MARK R253 AS SHOWN
" ONE " " " R252 OPP HAND

WT OF ONE = 304



WT OF ONE

37	MAKE ONE RAIL MARK R255 (AS SHOWN)
29	" ONE " " " R254 (OPP HAND)



4'-10 3/4"	6'-9 3/8"	(-1 1/16"	WT OF ONE = 151	AS SHOWN	ONE	R217
3'-6 15/16"	6'-3 1/16"	(-1 5/8"	142	OPP HAND	ONE	R216
3'-11 3/16"	6'-7 1/8"	(-1 1/2"	149	AS SHOWN	ONE	R215
3'-6 15/16"	6'-3 1/16"	(-1 1/2"	142	OPP HAND	ONE	R214
3'-9 15/16"	6'-6 1/16"	(-1 5/8"	146	AS SHOWN	ONE	R213
3'-7 15/16"	6'-3 1/16"	(-1 1/2"	142	OPP HAND	ONE	R212
3'-8 15/16"	6'-4 15/16"	(-1 5/8"	144	AS SHOWN	ONE	R211
3'-7 5/8"	6'-4 1/4"	(-1 11/16"	143	OPP HAND	ONE	R210
3'-6 15/16"	6'-3 15/16"	(-1 1/2"	142	AS SHOWN	ONE	R209
3'-8 15/16"	6'-4 15/16"	(-1 1/2"	144	OPP HAND	ONE	R208
3'-5 15/16"	6'-2 1/16"	(-1 5/8"	141	AS SHOWN	ONE	R207
3'-8 15/16"	6'-5 1/16"	(-1 5/8"	144	OPP HAND	ONE	R206
3'-5 1/16"	6'-1 1/16"	(-1 5/8"	140	AS SHOWN	ONE	R205
3'-9 7/16"	6'-6 1/16"	(-1 1/2"	145	OPP HAND	ONE	R204
3'-4 5/16"	6'-0 5/16"	(-1 5/8"	139	AS SHOWN	ONE	R203
3'-10 1/16"	6'-7 1/16"	(-1 5/8"	147	OPP HAND	ONE	R202

AS SHOWN	ONE	R253	ONE	L 3 1/2 x 3 1/2 x 5/8	35'-7 1/4"		108-5	303
OPP HAND	ONE	R252	ONE	Do	35'-7 1/2"	Do	Do	303
AS SHOWN	ONE	R255	ONE	L 5 x 3 1/2 x 3/8	3'-0 3/4"		9-418-87	32
OPP HAND	ONE	R254	ONE	Do	2'-3 1/4"		Do	24
			2	m	R 4 3/4 x 5/8	10 3/4	9-419-43	9
			4	Bolts	5/8 ϕ	1 1/2	Hex Hd & Nut 123-13	1

Req'd No	Req'd Mark	Made Up Of No	At Mk	Size	Length	Remarks	Ord.	Weight
		3	aa	L 3 1/2 x 3 1/2 x 5/16	5'-4	Bent For R213 R215 R217	108-8	10
		2	ab		5'-4	" " R209 R211		6
		3	ac		5'-4	" " R203 R205 R207		10
		8	ad L		5'-4	" " Others		25
		3	ae	L 3 1/2 x 3 1/2 x 5/16	5'-4	Bent For R215 R217		10
		2	af		5'-4	" " R209 R211		6
		3	ah		5'-4	" " R203 R205 R207		10
		8	ak L		5'-4	" " Others		25
		16	c	R G 3/4 x 5/16	5		9-419-43	46 6
		16	d	Do	8'-4	Do	Do	75 18
		16	K-2	BAR 3 1/2 x 5/16	2'-6 (ABT)	Same as Sht. 2 Bent	108-13	149
		3	am	L 3 1/2 x 3 1/2 x 5/16	5	Bent For R213 R215 R217	108-8	9
		2	an		5	" " R209 R211		6
		3	ap		5	" " R203 R205 R207		9
		8	as L		5	" " Others		24
		16	h	R G 1/4 x 5/16	1'-3		9-419-43	133 15
		3	at	L 3 1/2 x 3 1/2 x 5/16	5	Bent For R213 R215 R217	108-8	9
		2	av		5	" " R209 R211		6
		3	aw		5	" " R203 R205 R207		9
		8	az L		5	" " Others		24
		64	Rivs	3/4 ϕ				15
		96	Bolts	5/8 ϕ	1 1/2	Hex Hd & Nut	123-13	17
		32	Bolts	3/4 ϕ	2 1/2			10
ONE	R217	ONE		L 6 x 4 x 1/2	6'-10 3/4"		108-3	112
ONE	R216	ONE			6'-4 3/4"			104
ONE	R215	ONE			6'-9 1/4"			110
ONE	R214	ONE			6'-5"			104
ONE	R213	ONE			6'-7 1/2"			107
ONE	R212	ONE			6'-5 1/4"			104
ONE	R211	ONE			6'-6 1/4"			106
ONE	R210	ONE			6'-5 1/2"			105
ONE	R209	ONE			6'-5"			104
ONE	R208	ONE			6'-6 1/4"			106
ONE	R207	ONE			6'-3 3/4"			102
ONE	R206	ONE			6'-6 3/4"			104
ONE	R205	ONE			6'-3"			101
ONE	R204	ONE			6'-7 1/2"			107
ONE	R203	ONE			6'-7 1/4"			100
ONE	R202	ONE			6'-8 1/2"			109

GROSS WT. 3002.
WT. DED. 39.
NET WT. 2963.
PAINT 12.
TOTAL WT. 2975.

ARROWSIC BRIDGE OVER SASANOA RIVER
ARROWSIC - WOOLWICH
FED. AID PROJ. No. S-154 (2)
CONTRACT No. 2

RAILING NORTH APPROACH (SPANS 1 & 2)

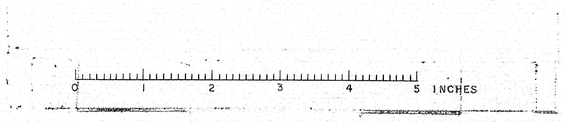
FOR NOTES ON SPECIFICATIONS, MATERIAL, PAINTING, PUNCHING, DRILLING, REAMING, ETC. SEE SHEET X50

RIVETS 3/4 DIAM. OPEN HOLES 13/16 DIAM. UNLESS OTHERWISE NOTED

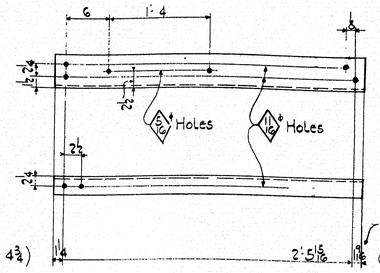
REVISIONS

HARRIS STRUCTURAL STEEL CO.
419 FOURTH AVE., N. Y.

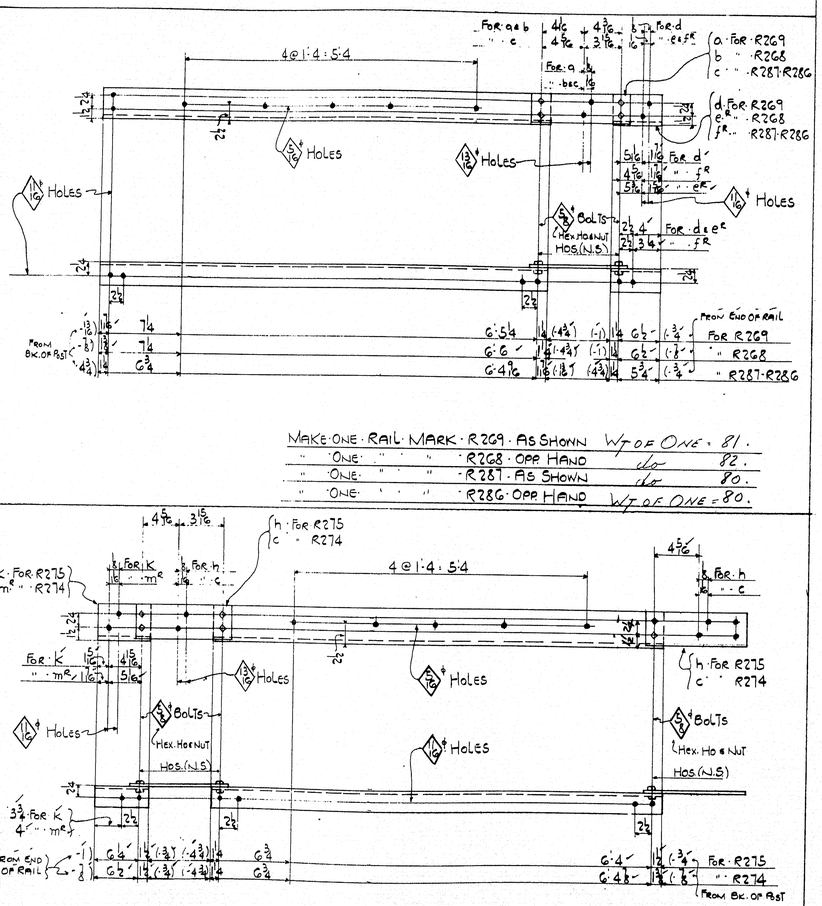
DRAW. MADE BY KB DATE 12-26-49
DRAW. CHECKED BY FT DATE 1-16-50
CONTRACT No. C378 SHEET No. 107



48-119

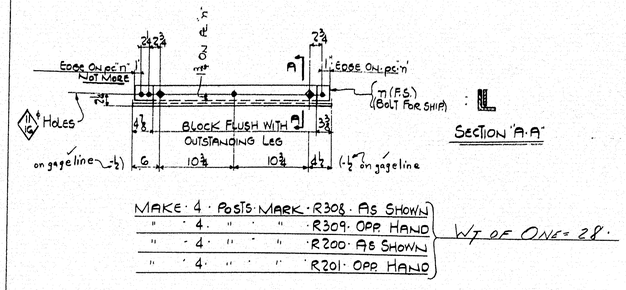


MAKE ONE RAIL MARK R325 AS SHOWN Wt of One = 27.
" ONE " " " R324 OPP HAND do = 27.



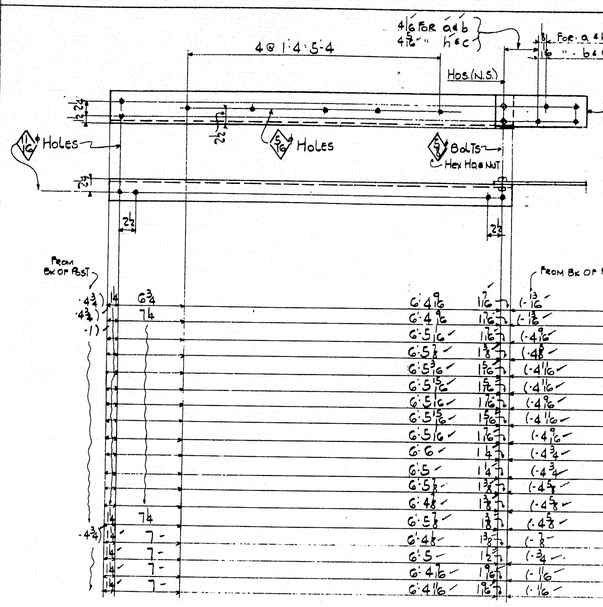
MAKE ONE RAIL MARK R269 AS SHOWN Wt of One = 81.
" ONE " " " R268 OPP HAND do 82.
" ONE " " " R287 AS SHOWN do 80.
" ONE " " " R286 OPP HAND Wt of One = 80.

MAKE ONE RAIL MARK R275 AS SHOWN Wt. of One = 85.
" ONE " " " R274 OPP HAND do 85.



Section "A-A"

MAKE 4 POSTS MARK R308 AS SHOWN
" 4 " " " R309 OPP HAND
" 4 " " " R200 AS SHOWN
" 4 " " " R201 OPP HAND
Wt of One = 28.



		Reqd		Made Up Of							
		No	Mark	No	Pc. Mk	Size	Length	Remarks	Ord.	Weight
As Shown	One	One	R325	One		L 5 x 3½ x ⅜	2'-7½		9-418-87	27
Opp Hand	One	One	R324	One		Do	2'-7½			27
As Shown	One	One	R269	One		L 5 x 3½ x ⅜	G 6½			68
Opp Hand	One	One	R268	One			G 7¼			69
As Shown	One	One	R287	One			G 6			68
Opp Hand	One	One	R286	One			G 6			68
				1	a	Pl 4¾ x ⅝	10¾	For R269	9-419-43	5
				1	b		10¾	" R268		5
				2	c		10¾	" R287-R286		9
				1	d	L 5 x 3½ x ⅜	7¾	" R269	9-418-87	7
				1	e		7¾	" R268		7
				2	f		7	" R287-R286		12
				16	Bolts	⅝	1½	Hex Ho & Nut	123-12	3
As Shown	One	One	R275	One		L 5 x 3½ x ⅜	G 5½		9-418-87	67
Opp Hand	One	One	R274	One		Do	G 6			68
		1	K			L 5 x 3½ x ⅜	7¾	For R275		7
		1	m			Do	8	" R274		7
		2	h			Pl 4¾ x ⅝	10¾	" R275	9-419-43	9
		2	c					" R274	Do	9
		12	Bolts			⅝	1½	Hex Ho & Nut	123-13	2
As Shown	4	4	R308	4		L 3½ x 3½ x 5/16	2'-8		108-8	77
Opp Hand	4	4	R309	4			2'-8			77
As Shown	4	4	R200	4			2'-8			77
Opp Hand	4	4	R201	4			2'-8			77
				16	m	Bars 3 x 5/16	2'-7¼	Bolt for Ship	9-419-43	133
				32	Bolts	⅝	7¼		123-14	6
As Shown	73	3	R277	3		L 5 x 3½ x ⅜	G 6		9-418-87	203
Opp Hand	73	3	R276	3			G 6			203
As Shown	73	One	R267	One			G 6½			68
Opp Hand	74	One	R266	One			G 7¼			69
As Shown	73	One	R265	One			G 6½			68
Opp Hand	74	One	R264	One			G 7¼			69
As Shown	73	One	R263	One			G 6½			68
Opp Hand	74	One	R262	One			G 7¼			69
As Shown	73	One	R261	One			G 6½			68
Opp Hand	74	One	R260	One			G 7¼			69
As Shown	73	One	R259	One			G 6½			68
Opp Hand	74	One	R258	One			G 7¼			69
As Shown	73	One	R257	One			G 6½			68
Opp Hand	74	One	R256	One			G 7¼			69
As Shown	73	One	R281	One			G 5½			67
Opp Hand	73	One	R280	One			G 6½			68
As Shown	73	One	R279	One			G 6			68
Opp Hand	73	One	R278	One			G 6¼			68
		6	a						9-419-43	27
		6	b							27
		8	c							36
		3	h							9
		44	Bolts	⅝		1½		Hex Ho & Nut	123-13	8

Wt of One:

73	As Shown	3	R277	3		L 5 x 3½ x ⅜	G 6		9-418-87	203
73	Opp Hand	3	R276	3			G 6			203
73	As Shown	One	R267	One			G 6½			68
74	Opp Hand	One	R266	One			G 7¼			69
73	As Shown	One	R265	One			G 6½			68
74	Opp Hand	One	R264	One			G 7¼			69
73	As Shown	One	R263	One			G 6½			68
74	Opp Hand	One	R262	One			G 7¼			69
73	As Shown	One	R261	One			G 6½			68
74	Opp Hand	One	R260	One			G 7¼			69
73	As Shown	One	R259	One			G 6½			68
74	Opp Hand	One	R258	One			G 7¼			69
73	As Shown	One	R257	One			G 6½			68
74	Opp Hand	One	R256	One			G 7¼			69
73	As Shown	One	R281	One			G 5½			67
73	Opp Hand	One	R280	One			G 6½			68
73	As Shown	One	R279	One			G 6			68
73	Opp Hand	One	R278	One			G 6¼			68

Gross Wt.	2597
Wt Ded.	
Net Wt.	2597
Paint	10
Total Wt.	2607

ARROWSIC BRIDGE OVER SASANOA RIVER
ARROWSIC - WOOLWICH
FED. AID PROJ. No. S-154 (2)
CONTRACT No. 2

For notes on specifications, material, painting, punching, drilling, reaming, etc. see sheet X50

As Noted

Railing North & South Approaches (Spans 1-2-6-7)

Rivets - Diam - Open Holes - Diam. unless otherwise noted

Revisions			

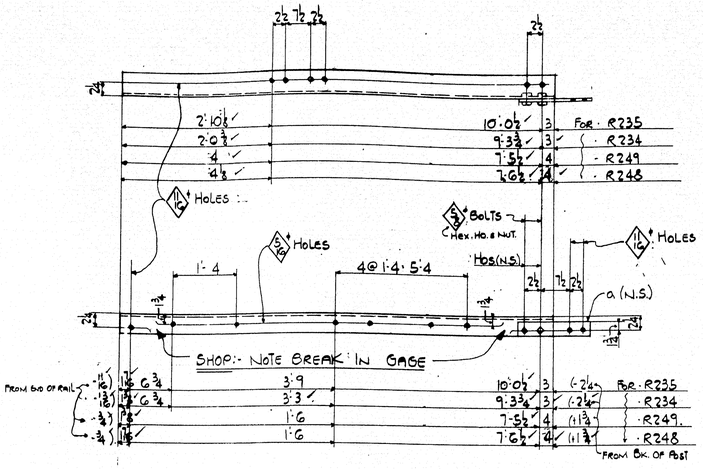
Harris Structural Steel Co.
419 Fourth Ave., N. Y.

Draw. made by WB Date 12-26-49
Draw. checked by FT Date 1-16-50
Contract No. C 376 Sheet No. 108

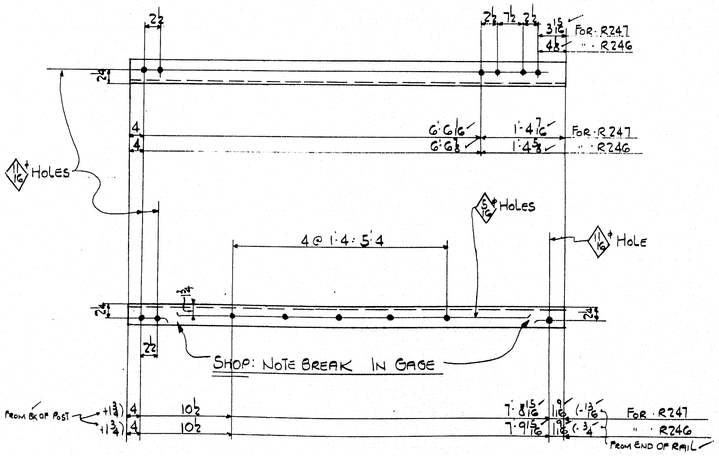
C 376 K

48-120

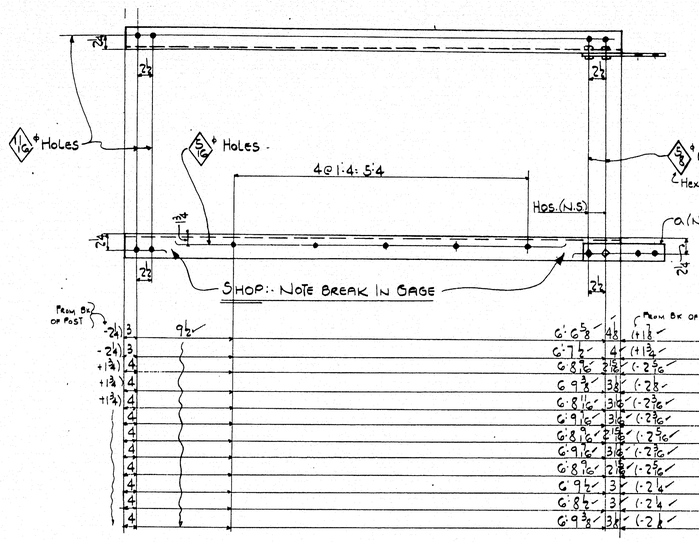
0 1 2 3 4 5 INCHES



MAKE ONE RAIL MARK R235 AS SHOWN Wt of One = 92
" ONE " " R234 OPP. HAND do 86
" ONE " " R249 AS SHOWN do 71
" ONE " " R248 OPP. HAND do 72



MAKE ONE RAIL MARK R247 AS SHOWN Wt of One = 67
" ONE " " R246 OPP HAND do 69



	Req'd No	Mark	Made up of No	A.M.	Size	Length	Remarks	Ord.	Weight
As Shown	One	R235	One		L 3½×3½×⅜	10'-3½		108-5	87
Opp Hand	One	R234	One			9'-6¾			81
As Shown	One	R249	One			7'-9½			66
Opp Hand	One	R248	One			7'-10½			67
			4	a	℄ 3×5/16	1'-3		9-419-43	16
			8	Bolts	⅝"	1½	Hex Ho & Nut	123-13	†
As Shown	One	R247	One		L 3½×3½×⅜	7'-10½		108-5	67
Opp Hand	One	R246	One		Do	7'-11½		Do	68
As Shown	One	R251	One		L 3½×3½×⅜	6'-10¾		108-5	59
Opp Hand	One	R250	One			6'-11½			59
As Shown	One	R245	One			6'-11½			59
Opp Hand	One	R244	One			7'-0½			60
As Shown	One	R243	One			6'-11¾			59
Opp Hand	One	R242	One			7'-0½			60
As Shown	One	R241	One			6'-11½			59
Opp Hand	One	R240	One			7'-0½			60
As Shown	One	R239	One			6'-11½			59
Opp Hand	One	R238	One			7'-0½			60
As Shown	One	R237	One			6'-11½			59
Opp Hand	One	R236	One			7'-0½			60
			12	a				9-419-43	48
			24	Bolts	⅝"	1½	Hex Ho & Nut	123-13	4

Gross Wt. 1218
Wt. Ded. —
Net Wt. 1218
Paint 5
Total Wt. 1223

Wt. L

ARROWSIC BRIDGE OVER SASANOA RIVER
ARROWSIC - WOOLWICH
FED. AID PROJ. No. S-154 (2,
CONTRACT No. 2

RAILING-NORTH APPROACH (SPANS 1 & 2)

FOR NOTES ON SPECIFICATIONS, MATERIAL, PAINTING, PUNCHING, DRILLING, REAMING, ETC. SEE SHEET X50

Rivets: Diam. Open Holes ⌀ Diam. Unless otherwise noted (As Noted)

HARRIS STRUCTURAL STEEL CO.
619 FOURTH AVE., N. Y.

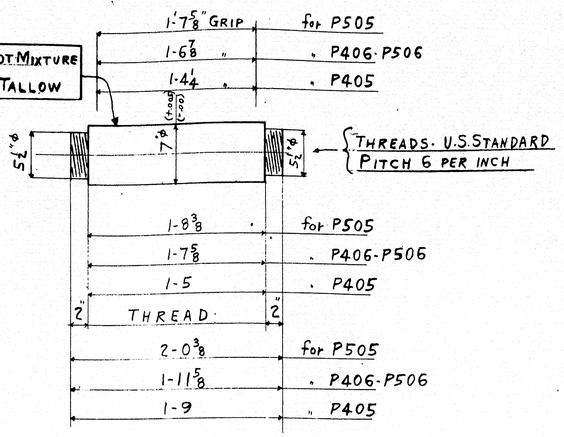
REVISIONS

DRAW. MADE BY WB DATE 12-28-49
DRAW. CHECKED BY FT DATE 1-16-50
CONTRACT No. 6378 SHEET No. 109

48-121

0 1 2 3 4 5 INCHES

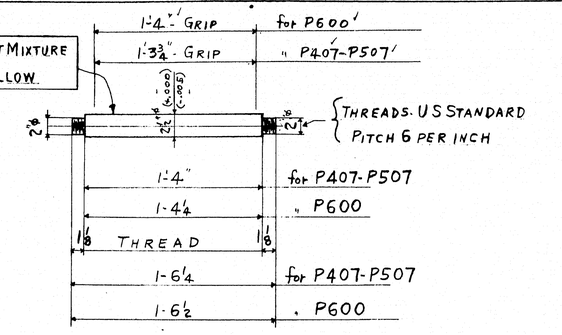
PAINT: ONE COAT HOT MIXTURE OF WHITE LEAD & TALLOW



SPEC. MAT'L - SAE 1020 HOT ROLLED CARBON STEEL

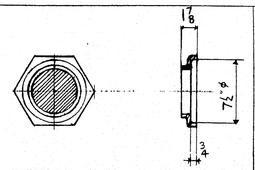
MAKE 2 PINS - MARK P405 WT. OF ONE 219#
" 2 " " P406 do 243#
" 2 " " P505 do 251#
" 2 " " P506 do 243#

PAINT: ONE COAT HOT MIXTURE OF WHITE LEAD & TALLOW

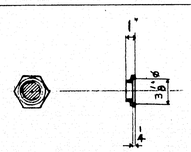


SPEC. MAT'L - SAE 1020 COLD FINISHED CARBON STEEL

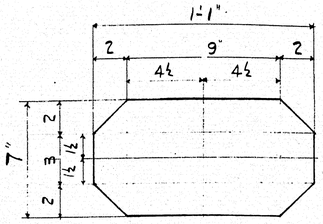
MAKE 2 PINS - MARK P407 WT. OF ONE 25#
" 2 " " P507 do 25
" 4 " " P600 do 26



16 NUTS - MARK PN29
WT. OF ONE 12#

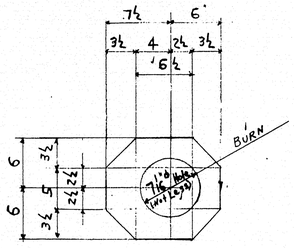


16 NUTS - MARK PN22
TOTAL WT. 32#

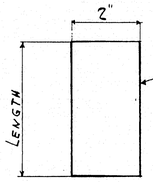


PAINT. ONE COAT OF BOILED LINSEED OIL.

WT. OF ONE 7# MAKE 24 PLATES 7 x 5/16 x 1'-1" - MARK M1
" do 11# " 8 " 7 x 7/16 x 1'-1" " M2



MAKE 8 - PLATES. 12 x 3/8 x 1-1/2 - MARK M3
WT. OF ONE 11#



PAINT. ONE COAT OF BOILED LINSEED OIL

MAKE 2	PLATES.	2 x 1/2 x 0-4	- MARK	M503	
" 2	"	2 x 1/2 x 0-4 1/8	"	M504	
" 2	"	2 x 1/2 x 0-4 3/8	"	M505	
" 2	"	2 x 1/2 x 0-4 5/8	"	M506	
" 2	"	2 x 1/2 x 0-4 7/8	"	M507	
" 2	"	2 x 1/2 x 0-5 1/8	"	M508	
" 2	"	2 x 1/2 x 0-5 3/8	"	M509	
" 2	"	2 x 1/2 x 0-5 5/8	"	M510	
" 1	"	2 x 1/2 x 0-5 7/8	"	M511	

TOTAL WT. 24#

SHPT. NO. 4	5	6		REQ'D NO	MARK	MADE UP OF NO	PC MK	SIZE	LENGTH	REMARKS	ORD	WEIGHT	SEE CUTS
			✓	2	P505	2		7"ϕ PIN	2-0 3/8		117-6	531.	31
			✓	2	P406	2		7"ϕ "	1-11 5/8			516.	31
			✓	2	P506	2		7"ϕ "	1-11 5/8			516.	31
			✓	2	P405	2		7"ϕ "	1-9			458.	31
8	8		✓			16		STD. RECESSED PIN NUTS FOR 7"ϕ PIN (PN29)			32787 32788 32790	192.	-
			✓	2	P407	2		2 1/2"ϕ PIN	1-6 1/4		32777	51.	2
			✓	2	P507	2		2 1/2"ϕ "	1-6 1/4			51.	2
			✓	4	P600	4		2 1/2"ϕ "	1-6 1/2			103.	4
4	4	8	✓			16		STD. RECESSED PIN NUTS FOR 2 1/2"ϕ PIN (PN22)			32789	32.	-
8	8	8	✓	24	M1	24		PL 7 x 5/16	1-1		9-423-6	193.	17
4	4		✓	8	M2	8		PL 7 x 7/16	1-1		Do	90.	6
4	4		✓	8	M3	8		PL 12 x 3/8	1-1 1/2		114-6	138.	52
	2		✓	2	M503	2		PL 2 x 1/2	0-4		9-423-1	2.	-
	2		✓	2	M504	2		" 2 x 1/2	0-4 1/8			2.	-
	2		✓	2	M505	2		" 2 x 1/2	0-4 3/8			3.	-
	2		✓	2	M506	2		" 2 x 1/2	0-4 5/8			3.	-
	2		✓	2	M507	2		" 2 x 1/2	0-4 7/8			3.	-
	2		✓	2	M508	2		" 2 x 1/2	0-5 1/8			3.	-
	2		✓	2	M509	2		" 2 x 1/2	0-5 3/8			3.	-
	2		✓	2	M510	2		" 2 x 1/2	0-5 5/8			3.	-
	1		✓	1	M511	1		PL 2 x 1/2	0-5 7/8			2.	-

GROSS WT.	2895.
WT. DED.	207.
NET WT.	2688.
PAINT	10.
TOTAL WT.	2698.

GENERAL NOTES. - J. W.

MATERIAL: STRUCTURAL CARBON STEEL: A.S.T.M. DESIGNATION A7-42 UNLESS OTHERWISE NOTED.

ARROWSIC BRIDGE OVER SASANOA RIVER
ARROWSIC - WOOLWICH
FED. AID PROJ. NO. S-154 (2)
CONTRACT No. 2

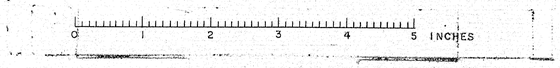
FOR NOTES ON SPECIFICATIONS, MATERIAL, PAINTING, PUNCHING, DRILLING, REAMING, ETC. SEE SHEET X60

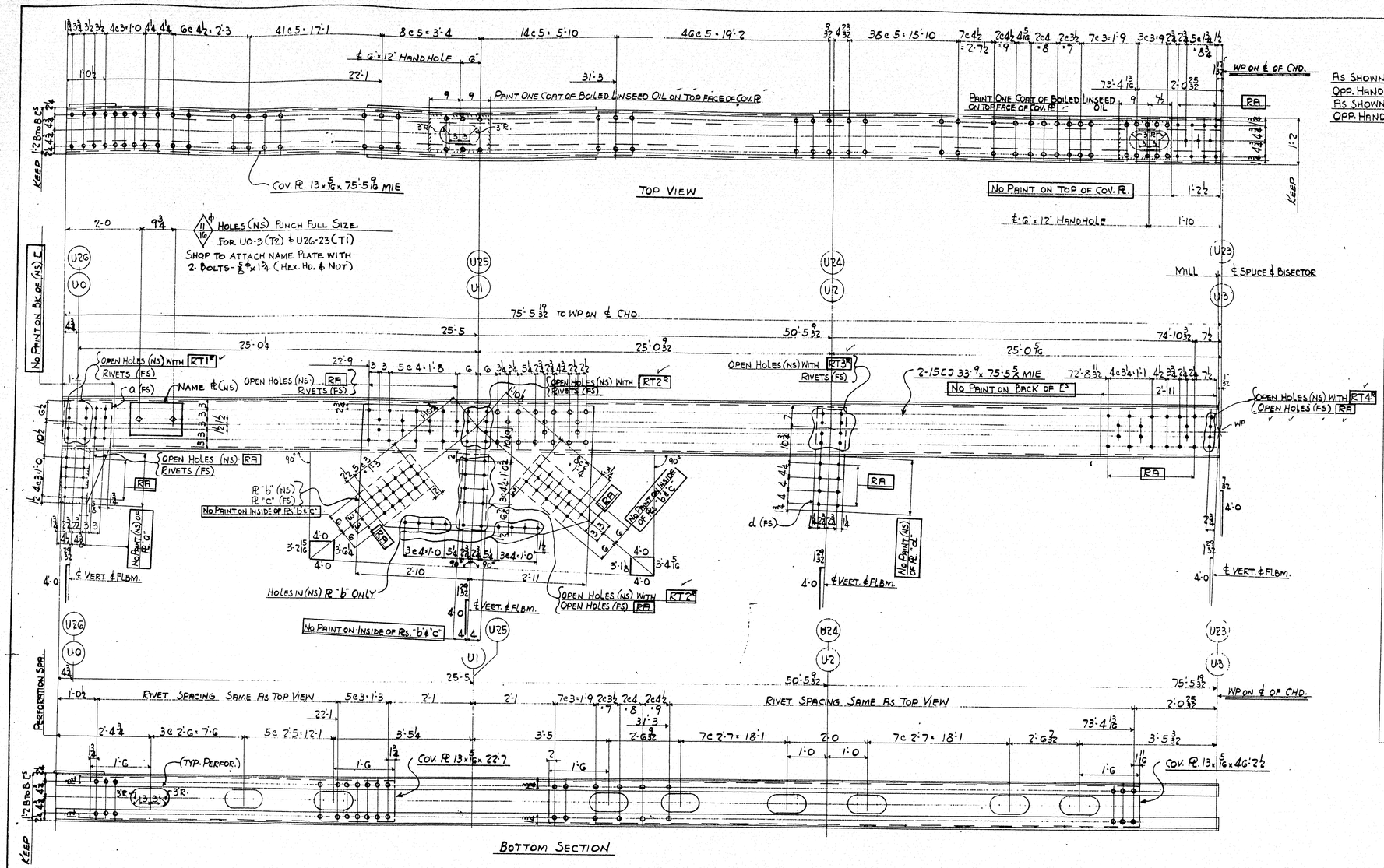
RIVETS DIAM.	OPEN HOLES DIAM. UNLESS OTHERWISE NOTED	REVISIONS

HARRIS STRUCTURAL STEEL CO.
419 FOURTH AVE., N. Y.

DRAW. MADE BY H M DATE 1-23-50
DRAW. CHECKED BY TTLJ DATE 1-30-50
CONTRACT No. C378 SHEET No. 110

48-122





Shipt No.	Req'd No	Req'd Mark	Made Up of No	Pc Mk	Size	Length	Remarks	Ord.	Weight	M Cuts
As Shown	4	1 U0-3 (T1)								
Opp. Hand	4	1 U0-3 (T2)								
As Shown	5	1 U2G-23 (T2)								
Opp. Hand	5	1 U2G-23 (T1)								
			8		15C 33'-9	75'-5 5/8	MIE	9-418-48	20467.	-
			4	Covs	PL 13 x 5/16	75'-5 5/8	MIE	9-419-21	9168.	44
			4	Covs	Do.	22'-7		-28	1297.	205
			4	Covs	Do.	4G'-2 1/2		-28	2553.	410
			4	a	PL 15 x 7/16	2'-6 1/2		9-423-4	227.	27
			4	b	PL 40 x 1/2	5'-9		121-29	1591.	39
			4	c	PL 40 x 1/2	5'-9		Do.	1591.	39
			4	d	PL 8 x 7/16	2'-7 3/4		113-22	126.	-
			3272	Rivs.	7/8 ϕ				1178.	-
			2	C.I. Name Plates			See Sh. 8 X 31 For U0-3 (T2) & U2G-23 (T1)		34.	-
			4	Bolts	5/8 ϕ	1 3/4	Hex. Hd. & Nut		1.	-
								Gross Wt.	33183.	
								Wt. Ded.	766.	
								Net Wt.	32417.	
								Paint	131.	
								Tot. Wt.	32548.	

RT 1E - 2E - 3E - 4E

ONE - Chord Member - Mark - U0-3 (T1) . As Shown
ONE - " " - " - U0-3 (T2) Opp. Hand
ONE - " " - " - U2G-23 (T2) As Shown
ONE - " " - " - U2G-23 (T1) Opp. Hand

Wt of One = 8137#

FOR NOTES ON SPECIFICATIONS, MATERIAL, PAINTING, PUNCHING, DRILLING, REAMING, ETC. SEE SHEET X 50

All Rivet Holes & Open Holes Punched Full Size Unless Noted RA or RT.

ARROWSIC BRIDGE OVER SASANOA RIVER
ARROWSIC - WOOLWICH
FED. AID PROJ. No. S-154 (2)
CONTRACT No. 2

Chord Members U0-3 (T1) U2G-23 (T1)
U0-3 (T2) U2G-23 (T2)

Rivets 7/8 diam. unless otherwise noted — Open Holes 15/16 diam.

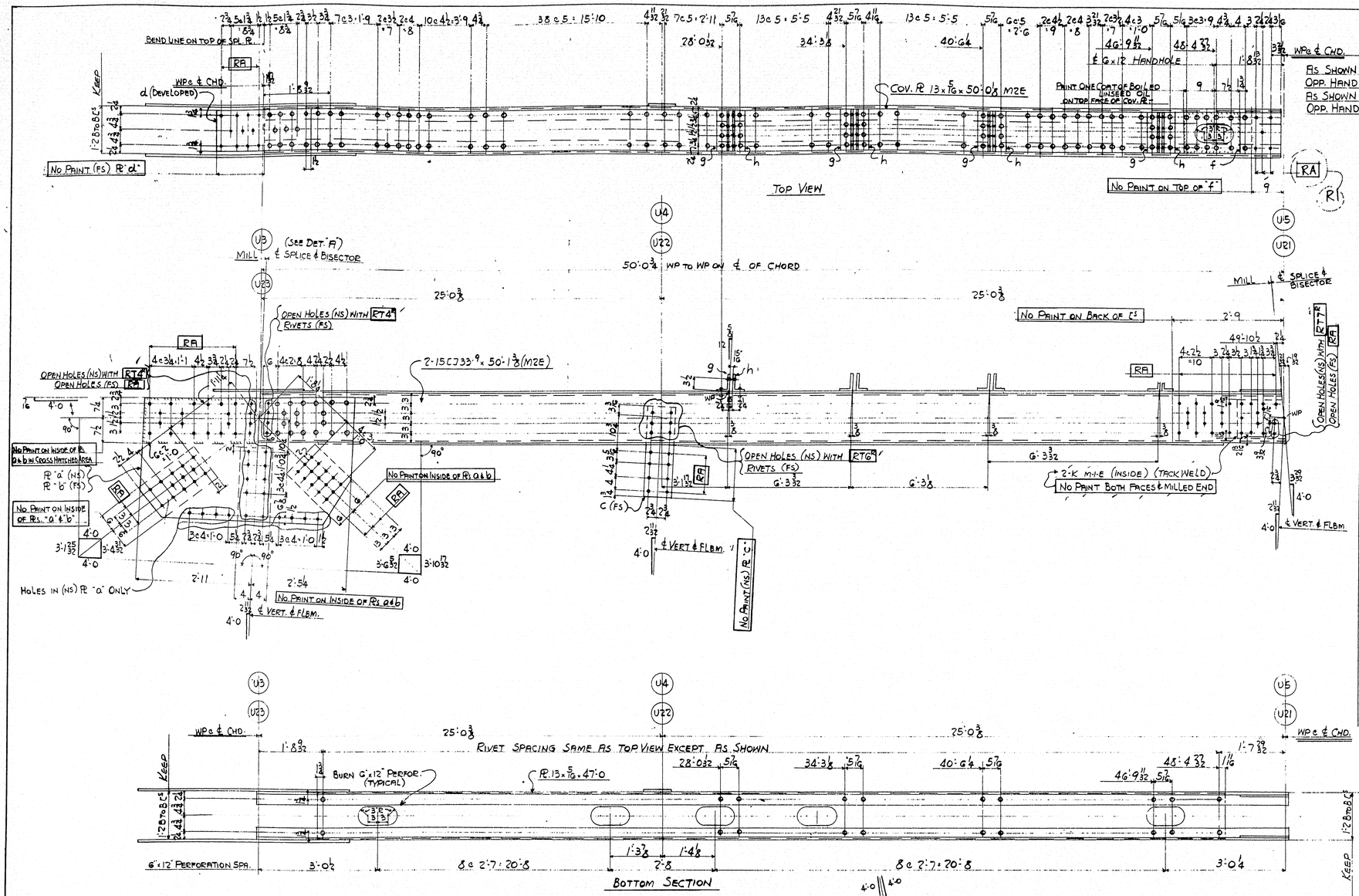
Revisions

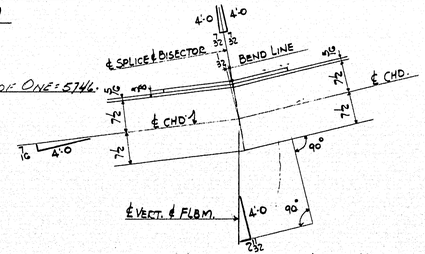
HARRIS STRUCTURAL STEEL CO.
619 Fourth Ave., N. Y.

Draw. Made By JWV Date 11/16/49
Draw. Checked By ? Date 12-29-47
Contract No. C 575 Sheet No. 111

48-123

0 1 2 3 4 5 Inches





DETAIL "A" SPLICE AT JOINT U3

SHIPT No	REQ'D No	REQ'D MARK	MADE UP OF No	Pc Mk	SIZE	LENGTH	REMARKS	ORD.	WEIGHT
As Shown	4	1	U3-5 (T1)						
Opp. Hand	4	1	U3-5 (T2)						
As Shown	5	1	U23-21 (T2)						
Opp. Hand	5	1	U23-21 (T1)						
			8		15 C 33.9	50'-1 3/8	M2E	9-418-50	13593.
			4	Cov.	PL 13 x 5/16	50'-0 3/8	M2E	9-419-24	2763.
			4	Cov.	PLS. 13 x 5/16	47'-0		9-419-27	2596.
			4	a	PL 40 x 1/2	5'-4 1/4		121-27	1481.
			4	b	PL 40 x 1/2	5'-4 1/4		Do	1481.
			4	c	PL 8 x 7/16	2'-3 1/4		113-22	108.
			4	d	PL 13 x 3/8	2'-5	(BENT)	114-5	160.
			4	f	FILL 13 x 1/2	1'-0 5/16	M1E		23.
			16	g	L 5 x 3 1/2 x 3/8	1'-1	BENT	119-8	180.
			16	h	Do.	1'-1	Do.	Do	180.
			8	K	FILLS. 12 1/2 x 9/16	1'-2 1/2	M1E		76.
			2268	Rivs.	7/8 ϕ				816.
							Gross Wt.		23457.
							Wt. Ded.		565.
							Net Wt.		22892.
							Paint		92.
							Tot. Wt.		22984.

RT 4 L - 6 L - 7 L

ONE - CHORD MEMBER - MARK - U3-5 (T1) AS SHOWN
ONE - " " " - U3-5 (T2) OPP. HAND
ONE - " " " - U23-21 (T2) AS SHOWN
ONE - " " " - U23-21 (T1) OPP. HAND

Wt. OF ONE = 5746.

FOR NOTES ON SPECIFICATIONS, MATERIAL, PAINTING, PUNCHING, DRILLING, REAMING, ETC. SEE SHEET X50

FILL RIVET HOLES & OPEN HOLES PUNCHED FULL SIZE UNLESS NOTED
RA OR RT

ARROWSIC BRIDGE OVER SASANOA RIVER
ARROWSIC - WOOLWICH
FED. AID PROJ. No. S-154 (2)
CONTRACT No. 2

CHORD MEMBERS U3-5 (T1) U23-21 (T1)
U3-5 (T2) U23-21 (T2)

RIVETS 7/8 DIAM. OPEN HOLES 15/16 DIAM. UNLESS OTHERWISE NOTED

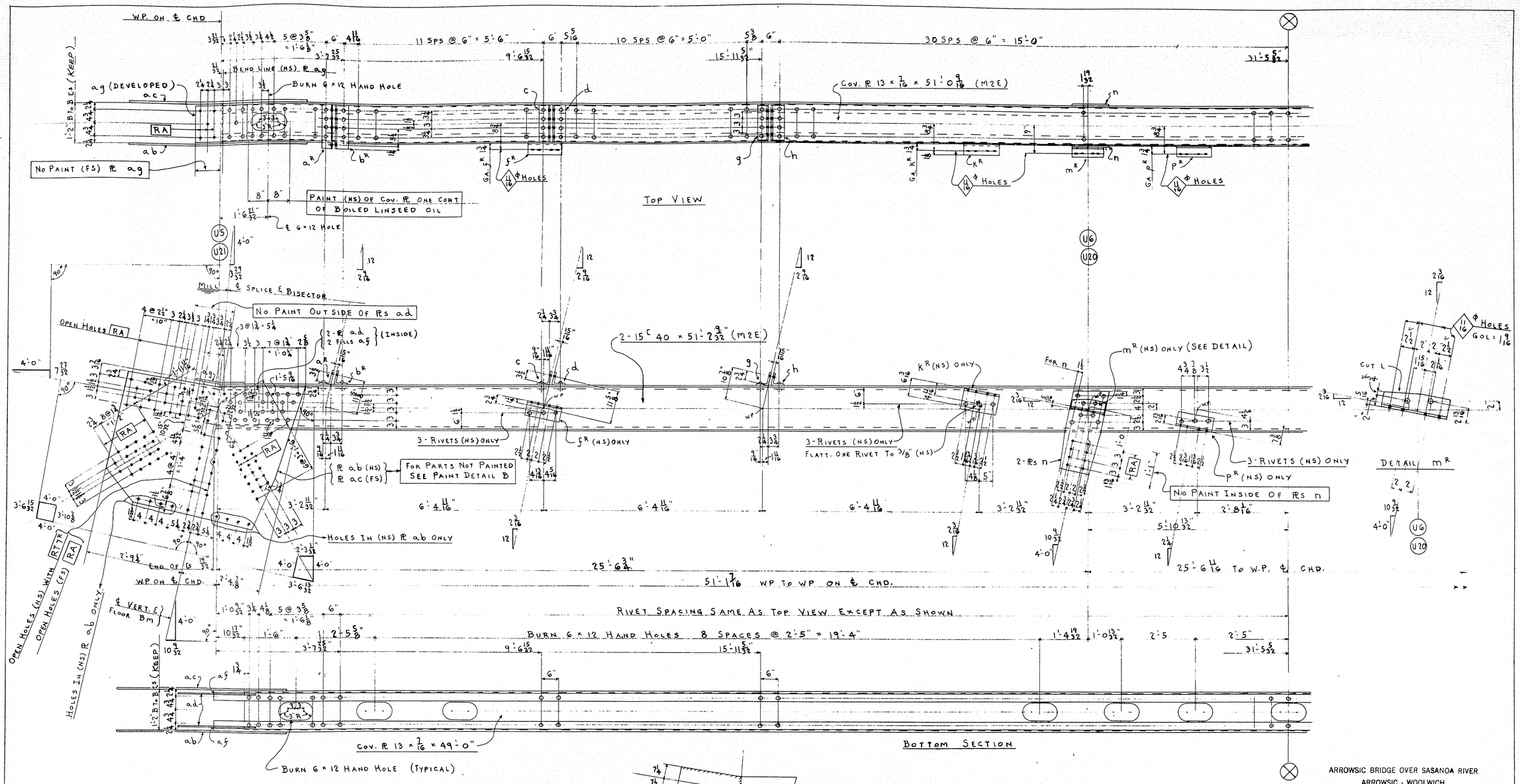
REVISIONS		
R1	2/7/50	As Noted

HARRIS STRUCTURAL STEEL CO.
619 FOURTH AVE., N. Y.

DRAW. MADE BY JWV DATE 11/22/49
DRAW. CHECKED BY [illegible] DATE 12-24-49
CONTRACT No. C378 SHEET No. 112

48-124

0 1 2 3 4 5 INCHES



ONE CHORD MEMBER MARK U5-7 (T1) AS SHOWN
ONE " " " U5-7 (T2) OPP. HAND
ONE " " " U21-19 (T2) AS SHOWN
ONE " " " U21-19 (T1) OPP. HAND

WT. OF ONE = 7382#

ARROWSIC BRIDGE OVER SASANOA RIVER
ARROWSIC - WOOLWICH
FED. AID PROJ. No. S-154 (2)
CONTRACT No. 2

SEE SHEET 114

CHORD MEMBERS U5-7 (T1) U21-19 (T1)
U5-7 (T2) U21-19 (T2)

RIVETS ℄ DIAM. OPEN HOLES ℄ DIAM.
UNLESS OTHERWISE NOTED

REVISIONS

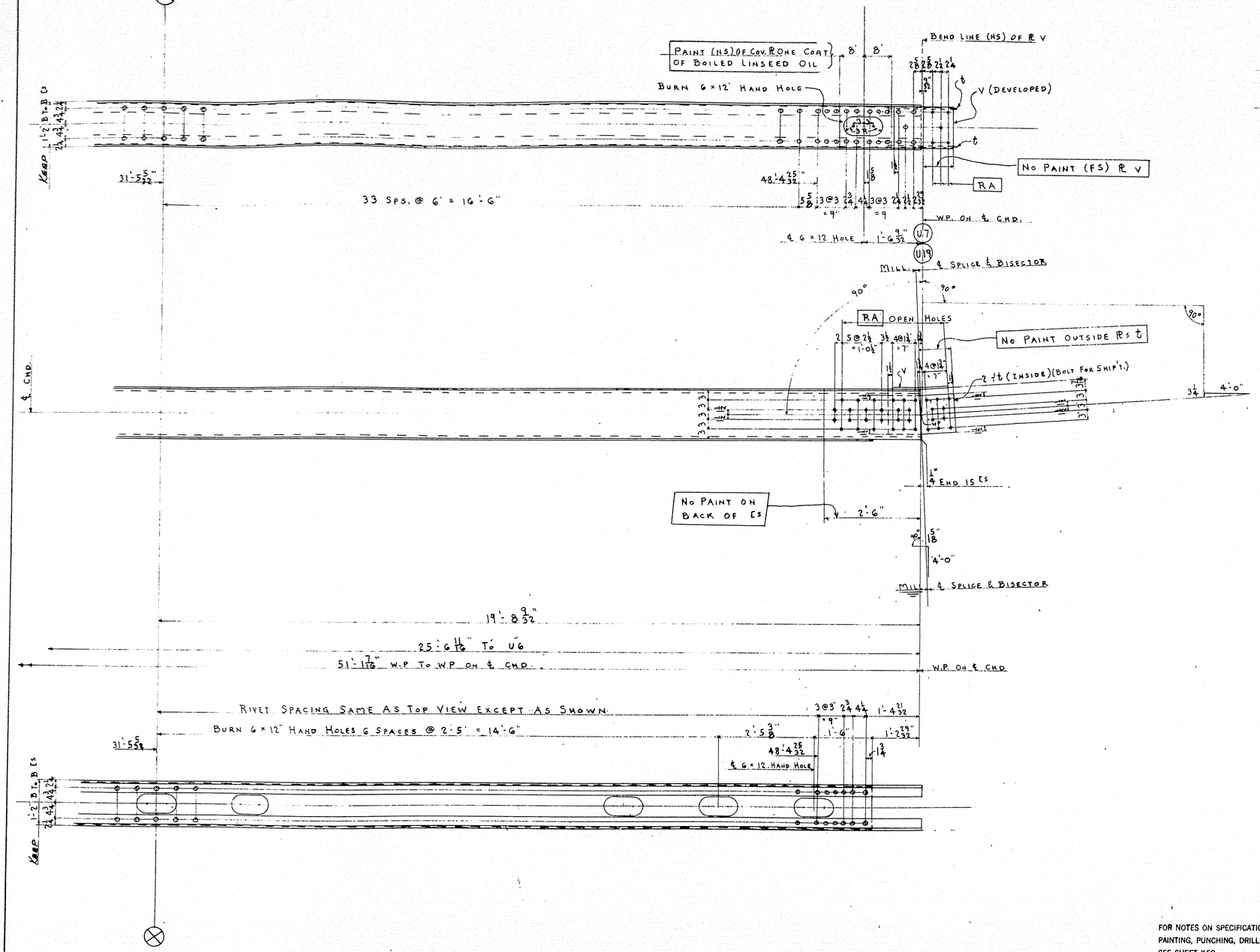
HARRIS STRUCTURAL STEEL CO.
419 FOURTH AVE., N. Y.

DRAW. MADE BY SMH DATE 12-8-49
DRAW. CHECKED BY [illegible] DATE 12-29-49
CONTRACT No. C378 SHEET No. 113

WORK THIS SHEET WITH SHEET 114

48-125

0 1 2 3 4 5 INCHES



SHPT No.	REQD. No	REQD. MARK	MADE UP OF No	Pc Mk	SIZE	LENGTH	REMARKS	ORD	WEIGHT	
AS SHOWN	4	U5-7(T1)								
OPP HAND	4	U5-7(T2)								
AS SHOWN	5	U21-19(T2)								
OPP HAND	5	U21-19(T1)								
			8		15 C 40	51'-2 9/32"	M2E	9-418-46	16381.	23
			4	cov	PL 13 x 1/16	51'-0 7/16"	M2E	9-419-10	3949.	44
			4	cov	PL 13 x 7/16	49'-0		9-419-11	3791.	442
			4	a PL	PL 14 3/4 x 3/8	8 3/4	BENT	9-423-5	55.	-
			4	b PL	PL 14 3/4 x 3/8	9	BENT	Do	56.	-
			4	c	PL 13 x 3/8	8 3/4		114-5	48.	-
			4	d	PL 13 x 3/8	9		Do	50.	-
			4	f PL	L 5 x 3 x 5/16	1'-0"			33.	-
			4	g	PL 12 x 3/8	8	BENT	114-6	41.	-
			4	h	PL 12 x 3/8	8 1/2	BENT	Do	42.	-
			4	K PL	L 7 x 2 1/2 x 3/8	1'-0"	CUT 7"x4"		59.	6
			4	m PL	L 4 x 3 x 5/16	1'-0"			29.	1
			8	n	PL 12 x 7/16	2'-6 1/2		113-21	363.	28
			4	P PL	L 5 x 3 x 5/16	1'-0			33.	-
			8	t	PL 12 11/16 x 1/2	1'-8 3/8	CUT 48 x 1/2 CUT	9-423-1	300.	
			4	V	PL 13 x 1/16	1'-5 1/2	BENT 48 x 7/16	Do -6	82.	
	2050	RIVS			7/8 ϕ				738.	-
			4	ab	PL 53 x 9/16	5'-2 1/8		9-442-3	2193.	336
			4	ac	Do	5'-2 1/8		Do	2193.	336
			8	ad	PL 14 1/4 x 1/16	2'-5 1/2	CUT 48 x 7/16	9-423-2	429.	57
			8	af	Fill 12 1/4 x 3/8	1'-3 1/4			53.	-
			4	ag	PL 13 x 5/16	1'-7	BENT CUT 48 x 5/16	9-423-6	87.	-
	16	BOLTS			7/8 ϕ	2 1/2			8.	-
							Gross Wt		30903.	
							Wt. Ded.		1493.	
							Net Wt.		29410.	
							Paint		118.	
							Tot. Wt.		29528.	

RT 7 PL

L
W.

ARROWSIC BRIDGE OVER SASANOA RIVER
ARROWSIC - WOOLWICH
FED. AID PROJ. No. S-154 (2)
CONTRACT No. 2

FOR NOTES ON SPECIFICATIONS, MATERIAL, PAINTING, PUNCHING, DRILLING, REAMING, ETC. SEE SHEET X50
ALL RIVET HOLES & OPEN HOLES PUNCHED FULL SIZE UNLESS NOTED RA OR RT

CHORD MEMBERS U5-7 (T1) U21-19 (T1) U5-7 (T2) U21-19 (T2)

RIVETS 7/8 DIAM. OPEN HOLES 15/16 DIAM. UNLESS OTHERWISE NOTED

REVISIONS

HARRIS STRUCTURAL STEEL CO.
619 FOURTH AVE., N. Y.

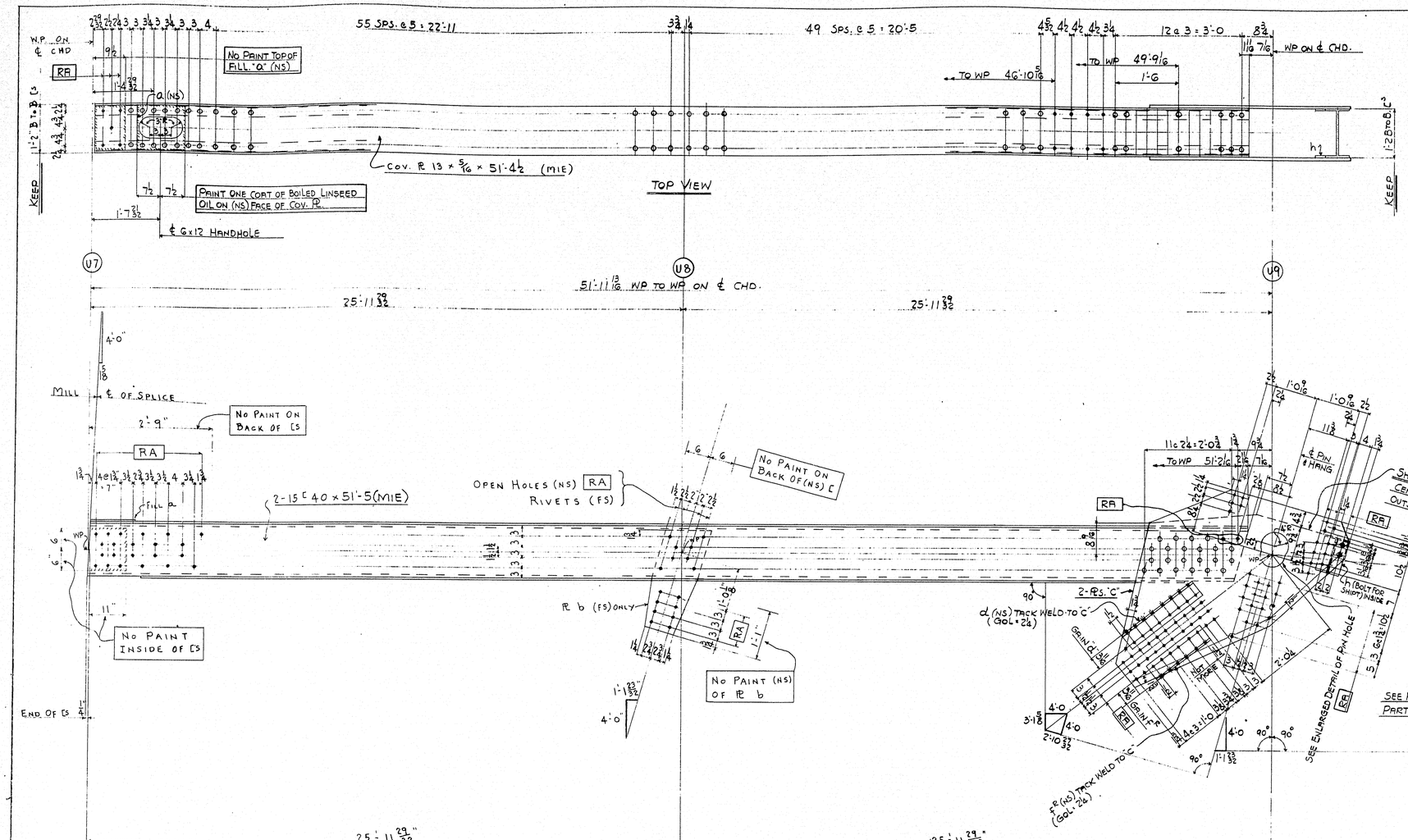
DRAW. MADE BY SHH DATE 11/29/49
DRAW. CHECKED BY [illegible] DATE 12-29-49
CONTRACT No. C378 SHEET No. 114

WORK THIS SHEET WITH SHEET 113

48-126

0 1 2 3 4 5 INCHES

Ship No	No	Mark	No	Pc Mk	Size	Length	Remarks	Ord	Weight
4	1	U7-9(T1)	As Shown						
4	1	U7-9(T2)	Opp. Hand						
			4		15 C 40	51'-5	MIE Cut 51'-6¼	9-418-45	8227. 27
			2	Cov	PL 13 × 5/16	51'-4½	MIE Cut 51'-5⅝	9-419-22	1419. 11
			2	Cov	PL Do	48'-8		Do-25	1399. 199
			2	a	Fill 13 × 1/8	11⅛	M.I.E	119-27	11. -
			2	b	PL 12 × 7/16	2'-7⅜		113-21	92. 11
			4	c	PL 40 × ¾	6'-3⅜		121-9	2595. 696
			2	d	L 5-3½ × ⅜	2'-1		119-8	43. -
			2	f PS	L 5 × 3½ × ⅜	1'-7		Do	33. -
			2	h	14 B 34	10			56. -
			4	Bolts	⅞ Φ	2½			2. -
			1096	Rivs.	⅞ Φ				395. -
							Gross Wt.		14217. -
							Wt. Ded.		944. -
							Net Wt.		13273. -
							Paint		53. -
							Tot Wt.		13326. -



One Chord Member Mark U7-9 (T1) As Shown — Wt of One = 6663 — One Chord Member Mark U7-9 (T2) Opp. Hand.

Work This Sheet With Sheet *119 For Templates.

ARROWSIC BRIDGE OVER SASANOA RIVER
ARROWSIC - WOOLWICH
FED. AID PROJ. No. S-154 (2)
CONTRACT No. 2

For Notes on Specifications, Material, Painting, Punching, Drilling, Reaming, etc. See Sheet X50
All Rivet Holes & Open Holes Punched Full Size. Unless Noted RA

Chord & Member U7-9 (T1) U7-9 (T2)

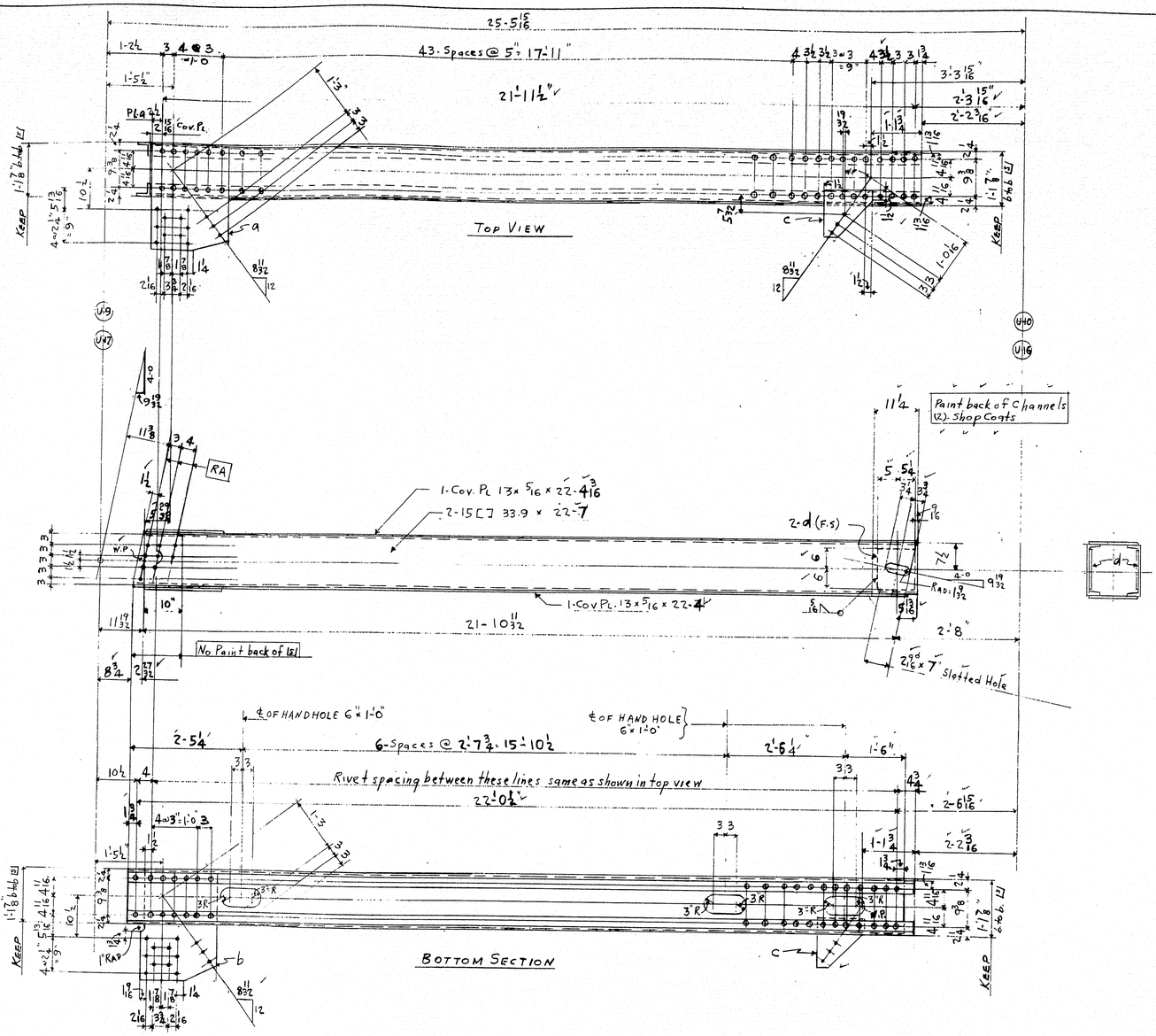
Rivets ⅞ Diam. Open Holes 15/16 Diam. Unless Otherwise Noted

Harris Structural Steel Co.
115 Fourth Ave. N. Y.

Revisions

Draw Made By Sosi Date 1-12-50
Drawn Checked By W.P. Date 1-18-50
Contract No. C378 Sheet No. 115

48-127



SHPT	REQD		MADE UP OF						
Nº	Nº	MARK	Nº	Pc. Mk.	SIZE	LENGTH	REMARKS	ORD	WEIGHT
AS SHOWN	6	1 U9-10(T1)							
" "	6	1 U17-16(T2)							
OPP HAND	6	1 U9-10(T2)							
" "	6	1 U17-16(T1)							
			8		15 [33.9	22-7		9-418-56	6124. 29
			4	Cov	Pls 13 x 5/16	22-4 3/16		9-419-38	1234. 1
			4	Cov	Pls 13 x 5/16	22-4 3/16		Do	1235. 179
			4	a	Pls 19 x 3/8	2-3 1/2		9-423-5	222. 4
			4	b	Pls 19 x 3/8	2-3 1/2		Do	222. 5
			8	c	Pls 12 x 3/8	1-11 1/4		114-9	135. 4
			8	d	Pls 12 x 9/16	0-10 1/4		9-442-7	156. 14
			944		Rivets 7/8"				340. —
					Weld 5/16	30-0"			5. —
								Gross wt.	9673.
								Wt. DED.	235.
								Net wt.	9438.
								Paint	38.
								TOTAL wt.	9476.

CUTS K

J B.

MAKE ONE CHORD. MARK U9-10 (T1) AS SHOWN
" ONE " " U17-16 (T2) " "
" ONE " " U9-10 (T2) OPP HAND
" ONE " " U17-16 (T1) " "

} WT. OF ONE = 2369.

FOR NOTES ON SPECIFICATIONS, MATERIAL, PAINTING, PUNCHING, DRILLING, REAMING, ETC. SEE SHEET X8Q
ALL RIVET HOLES AND OPEN HOLES PUNCHED FULL SIZE UNLESS NOTED RA

SHEETS 7/8 DIAM. OPEN HOLES 15/16 DIAM. UNLESS OTHERWISE NOTED

REVISIONS

HARRIS STRUCTURAL STEEL CO.
619 FOURTH AVE., N. Y.

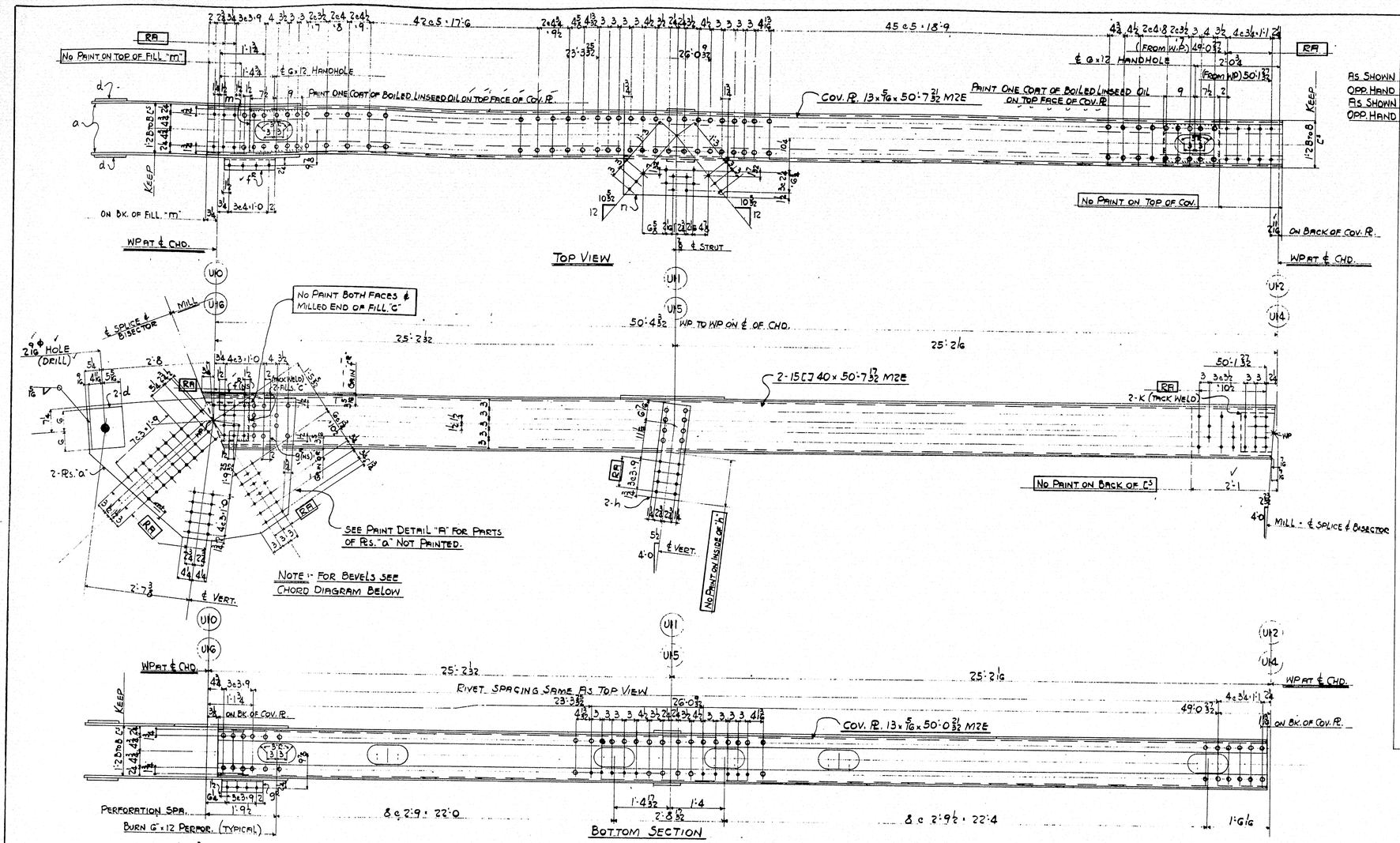
DRAWN MADE BY N M DATE 12-7-49
DRAWN CHECKED BY DATE 12-27-49
CONTRACT No. C378 SHEET No. 116

ARROWSIC BRIDGE OVER SASANOA RIVER
ARROWSIC - WOOLWICH
FED. AID PROJ. No. S-154 (2)
CONTRACT No. 2

CHORD MEMBER U9-10(T1) & U9-10(T2)
" " U17-16(T1) & U17-16(T2)

48-128

0 1 2 3 4 5 INCHES



Shipt No.	Req'd No	Req'd Mark	No	Rmk.	Made Up Of Size	Length	Remarks	Ord.	Weight	Cuts
As Shown	G	1	U10-12 (T1)							
Opp. Hand	G	1	U10-12 (T2)							
As Shown	G	1	U16-14 (T2)							
Opp. Hand	G	1	U16-14 (T1)							
			8		15 [40	50'-7 32/32	M2E	9-418-47	16202.	105
			4	Cov.	Pls. 13 x 5/16	50'-7 32/32	M2E	9-419-23	2797.	40
			4	Cov.	Pls. 13 x 5/16	50'-0 32/32	M2E	Do.	2765.	392
			8	a	Pls. 43 x ⅜	5'-3½		121-14	3925.	407
			8	c	Fill. 12 x 3/16	1'-1⅛		119-25	67.	1
			8	d	Pl. 12 x ⅜	10		9-423-5	102.	4
			4	f	L 5 x 3½ x ⅜	1'-3½		119-8	54.	—
			4	g	L 5 x 3½ x ⅜	1'-0½		Do.	43.	—
			8	h	Pl. 8 x 1/16	2'-4¼		113-22	224.	—
			8	K	Fill 12 x 3/16	10⅛		119-25	51.	1
			4	m	Fill 13 x 5/16	1'-0½		9-423-6	57.	—
			4	n	Pl. 25 x ⅜	2'-6		9-423-5	319.	—
			2	60 Rivs.	⅞ϕ				778.	—
							Gross Wt.		27384.	
							Wt. Ded.		950.	
							Net Wt.		26434.	
							Paint		106.	
							Total Wt.		26540.	

ONE - Chord Member - Mark - U10-12 (T1) As Shown
ONE - " " - " - U10-12 (T2) Opp. Hand
ONE - " " - " - U16-14 (T2) As Shown
ONE - " " - " - U16-14 (T1) Opp. Hand
Wt of One = 6635.

Arrowsic Bridge over Sasanoa River
Arrowsic - Woolwich
Fed. Aid Proj. No. S-154 (2)
Contract No. 2

For Notes on Specifications, Material, Painting, Punching, Drilling, Reaming, etc. see Sheet X50
All Rivet Holes & Open Holes Punched Full Size Unless Noted
RA or RT

Chord Members U10-12 (T1) U16-14 (T1)
U10-12 (T2) U16-14 (T2)

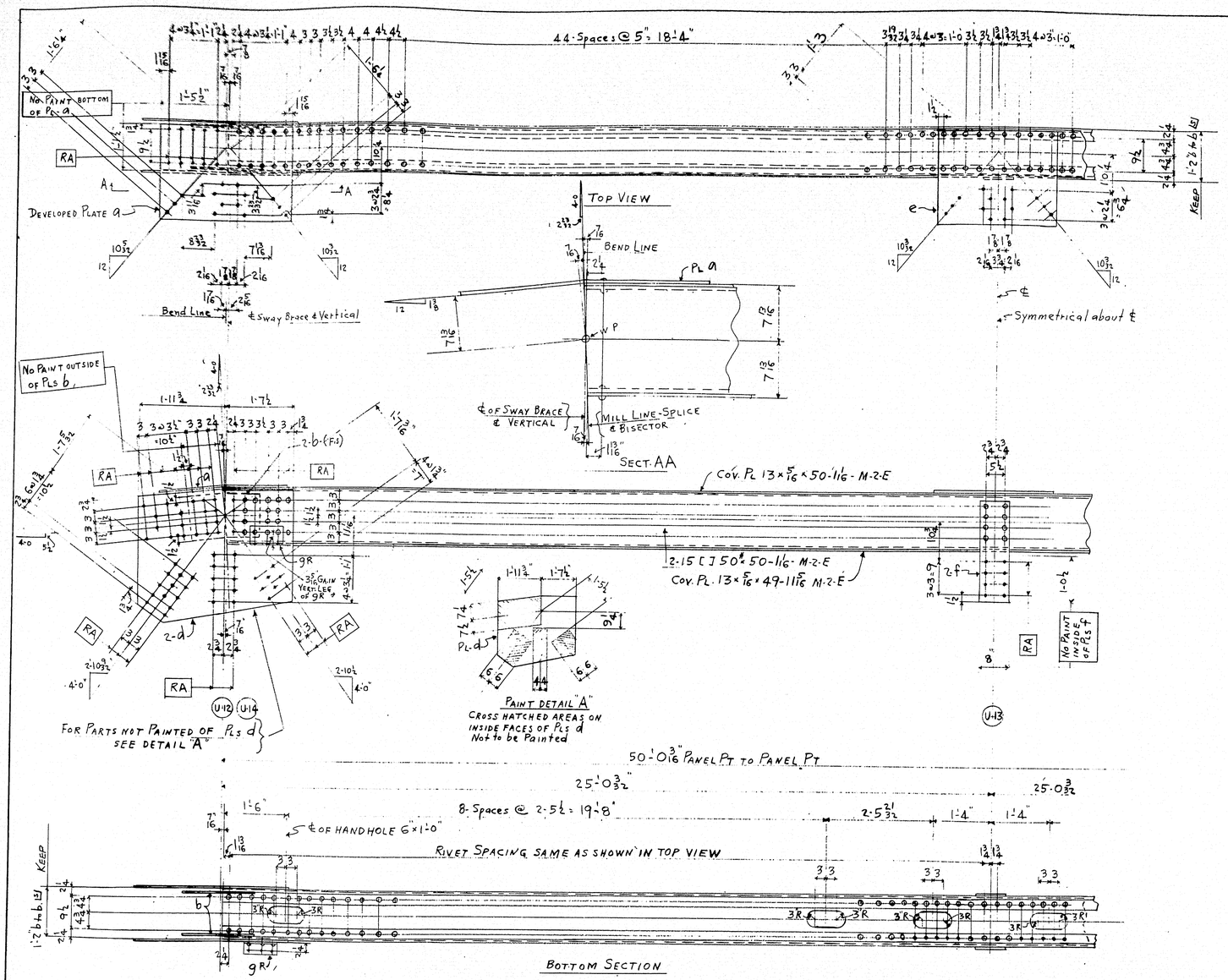
Rivets ⅞ Diam. Open Holes 15/16 Diam. Unless Otherwise Noted

Revisions

Harris Structural Steel Co.
618 Fourth Ave., N. Y.

Draw. Made By JWV Date 12/7/49
Draw. Checked By [illegible] Date 12-29-49
Contract No. C378 Sheet No. 117

48-129



SHPT No	REQD No	REQD MARK	MADE UP OF No	PC. MK	SIZE	LENGTH	REMARKS	ORD	WEIGHT
6	1	U12-14 (T1)							
6	1	U14-12 (T2)							
			4		15 [50	50-11/16	M-2-E	9-418-34	10018. —
			2	Cov	Pls 13 × 5/16	50-11/16	M-2-E	9-419-24	1383. —
			2	Cov	Pls 13 × 5/16	49-11 15/16	M-2-E	Do.	1379. 135
			4	a	Pls. 26 3/4 × 3/8	2-11 1/4		9-423-5	401. —
			8	b	Pls 13 1/16 × 3/8	1-8 3/8		Do.	224. —
			8	d	Pls 43 1/4 × 1/2	3-1 1/4		121-25	1855. 50
			2	e	Pls 26 3/4 × 3/8	2-8 1/2		9-423-5	185. —
			4	f	Pls 8 × 7/16	2-3 1/4		113-22	108. —
			4	g	Pls 5 × 3 1/4 × 3/8	9'2"		119-8	33. —
			1212		Rivets 7/8"				436 —
								Gross wt.	16022.
								Wt. Ded.	185
								Net Wt.	15837.
								Paint.	63
								Total wt.	15900.

J
B.

Make · One Chord Member · Mark U12-14 (T1)
" One " " " U14-12 (T2)
} Wt of One = 7950 .

ARROWSIC BRIDGE OVER SASANOA RIVER
ARROWSIC - WOOLWICH
FED. AID PROJ. No. S-154 (2)
CONTRACT No. 2

CHORD MEMBER U12-14 (T1)
" " U14-12 (T2)

FOR NOTES ON SPECIFICATIONS, MATERIAL, PAINTING, PUNCHING, DRILLING, REAMING, ETC. SEE SHEET X50
ALL RIVET HOLES AND OPEN HOLES PUNCHED FULL SIZE UNLESS NOTED RA OR RT

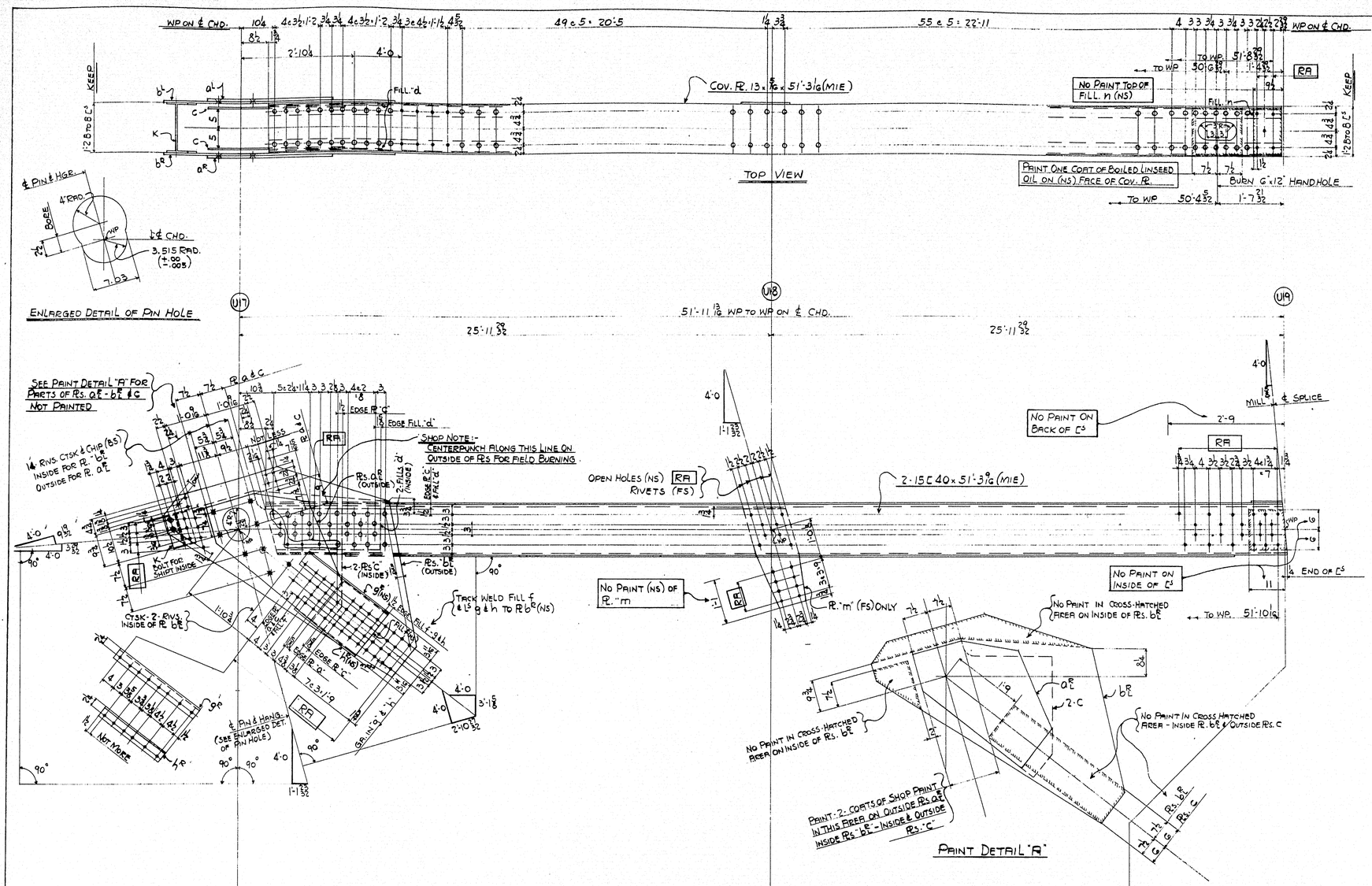
RIVETS 7/8 DIAM. OPEN HOLES 15/16 DIAM. UNLESS OTHERWISE NOTED

REVISIONS

HARRIS STRUCTURAL STEEL CO.
419 FOURTH AVE., N. Y.

DRAW. MADE BY NM DATE 12-1-49
DRAW. CHECKED BY [illegible] DATE 1-11-50
CONTRACT No. C378 SHEET No. 118

48-130



SHIPT. NO.	REQ'D NO.	MARK	NO	PT. MK	SIZE	LENGTH	REMARKS	ORD.	WEIGHT	CUTS
5	1	U17-19 (T1)		AS SHOWN						K
5	1	U17-19 (T2)		OPP. HAND						
			4		15 C 40	51'-3 9/16	MIE CUT 51'-6 1/4	9-418-45	8208.	40
			2	COVS.	PL. 13 x 5/16	51'-3 1/16	MIE CUT 51'-5 1/2	9-419-22	1416.	5
			2	COVS.	PL. 13 x 5/16	48'-0 1/4	CUT 46'-8	Do-25	1326.	209
			4	a℄	PL. 27 x 5/8	3'-10 3/8		121-17	881.	2.00
			4	b℄	PL. 43 1/2 x 7/16	7'-0		9-442-15	3668	547
			4	c	PL. 31 3/4 x 3/8	4'-2 1/2		121-7	1591.	505
			4	d	FILL 12 x 5/16	2'-10 1/4		9-442-7	262.	—
			2	f	FILL 15 x 5/16	1'-4			85.	—
			2	g℄	L 5 x 3 1/2 x 7/16	2'-5 1/2		119-8	51.	—
			2	h℄	L 5 x 3 1/2 x 7/16	1'-10 1/2		Do	39.	—
			2	K	14 B 34	10			56.	—
			2	m	PL 12 x 7/16	2'-7 1/8		113-21	92.	8
			2	n	FILL 13 x 5/8	11 1/8		119-27	11.	—
			4	BOLTS	7/8 ϕ	2 1/2			2.	—
			1080	RIVS.	7/8 ϕ				389.	—
			28	CTSK RIVS.	7/8 ϕ		CTSK (BS)			—
			4	CTSK RIVS.	7/8 ϕ		CTSK ONE SIDE		1.	—
								Gross Wt.	18078.	
								Wt. Deck	1509.	
								Net Wt.	16569.	
								Paint	66.	
								Tot. Wt.	16635.	

FOR NOTES ON SPECIFICATIONS, MATERIAL, PAINTING, PUNCHING, DRILLING, REAMING, ETC. SEE SHEET X50

ALL RIVET HOLES & OPEN HOLES PUNCHED FULL SIZE UNLESS NOTED RA.

ARROWSIC BRIDGE OVER SASANOA RIVER
ARROWSIC - WOOLWICH
FED. AID PROJ. No. S-154 (2)
CONTRACT No. 2

CHORD MEMBER U17-19 (T1) & (T2)

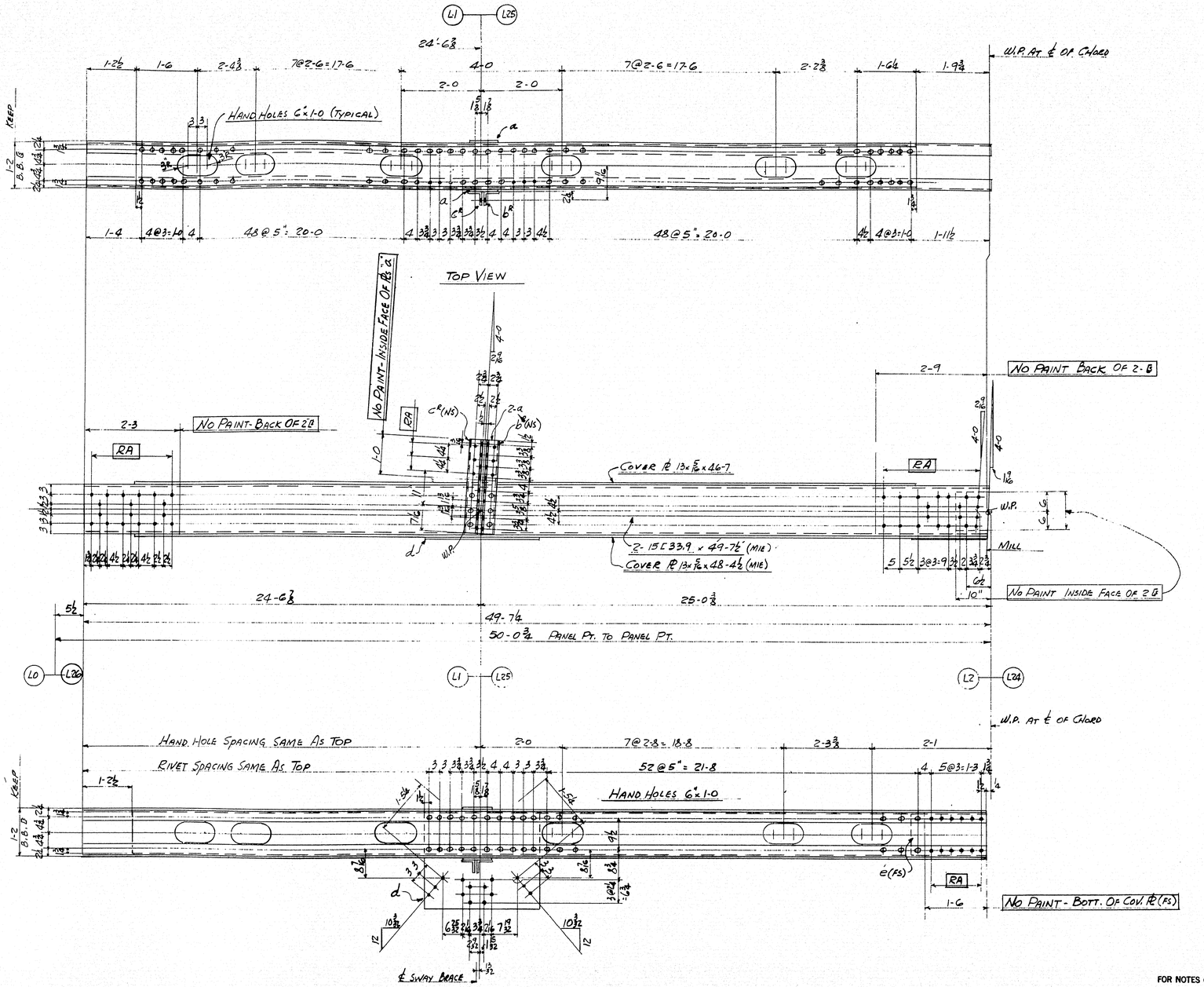
RIVETS 7/8 DIAM. OPEN HOLES 15/16 DIAM. UNLESS OTHERWISE NOTED

HARRIS STRUCTURAL STEEL CO.
619 FOURTH AVE., N. Y.

REVISIONS			

DRAWN MADE BY JWV DATE 1/17/50
DRAWN CHECKED BY W.F. DATE 1-17-50
CONTRACT No. C378 SHEET No. 119

48-131



SHIPT. No	REQ'D No	MARK	MADE UP OF No	PC. MK	SIZE	LENGTH	REMARKS	ORD	WEIGHT	CUTS
AS SHOWN	4	1 L0-2 (T1)								K
OPP. HAND	4	1 L0-2 (T2)								
OPP. HAND	5	1 L26-24 (T1)								
AS SHOWN	5	1 L26-24 (T2)								
			8		15 C 33.9	49-7½	M1E	9-418-52	13440	4
			4	COV	PL 13x⅝	46-7		9-419-28	2573	347
			4	DO	DO	48-4½	M1E	D₀-24	2673	347
			8	a	PL 8x⅞	2-4¼		113-22	224	—
			4	bℓ	L 4x3½x⅜	2-4¼		119-9	86	—
			4	cR	DO	2-4¼		D₀	86	—
			4	d	PL 28½x⅜	2-10		9-423-5	411	—
			4	e	FILL 13x1/16	1-10			20	—
			1920		⅞ϕ R.Vs				691	—
								GROSS WT.	20224	
								WT. DED.	698	
								NET WT.	19526	
								PAINT	78	
								TOTAL WT.	19604	

J
B-

MAKE ONE CHORD MEMBER - MARK L0-2 (T1) AS SHOWN
L0-2 (T2) OPP. HAND
L26-24 (T1) OPP. HAND
L26-24 (T2) AS SHOWN

WT. OF ONE = 4901

ALL RIVET HOLES ℄ OPEN HOLES PUNCHED
FULL SIZE UNLESS NOTED [RA]

FOR NOTES ON SPECIFICATIONS, MATERIAL, PAINTING, PUNCHING, DRILLING, REAMING, ETC. SEE SHEET X50

CHORD MEMBERS L0-2 (T1) - L26-24 (T1)
L0-2 (T2) - L26-24 (T2)

RIVETS ⅞ DIAM. OPEN HOLES 15/16 DIAM. UNLESS OTHERWISE NOTED

REVISIONS

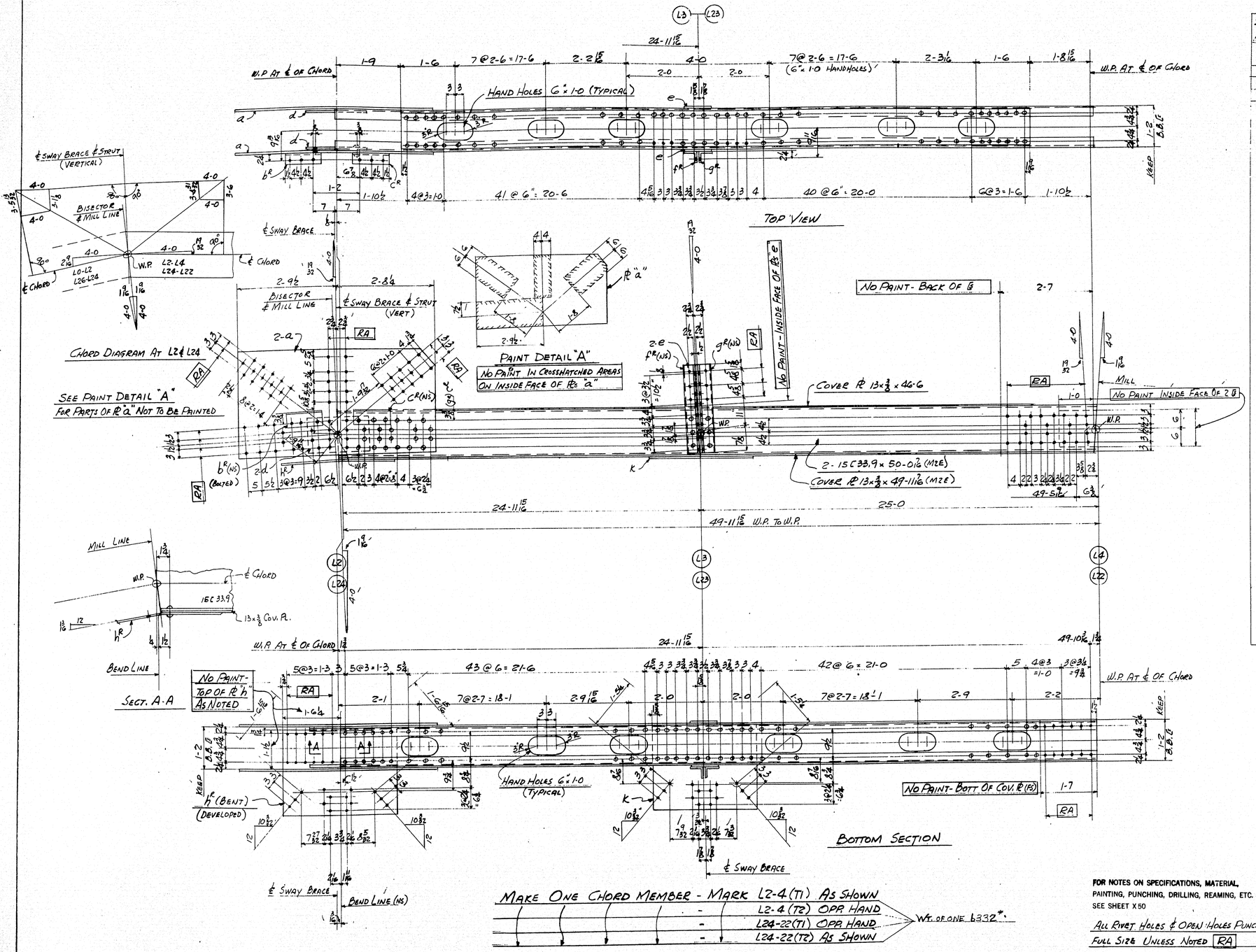
HARRIS STRUCTURAL STEEL CO.
619 FOURTH AVE., N. Y.

DRAW. MADE BY CZ DATE 12-1-49
DRAW. CHECKED BY W.P. DATE 1-11-50
CONTRACT No. C378 SHEET No. 120

ARROWSIC BRIDGE OVER SASANOA RIVER
ARROWSIC - WOOLWICH
FED. AID PROJ. No. S-154 (2)
CONTRACT No. 2

0 1 2 3 4 5 INCHES

48-132



SHIPT No	REQ'D No	MARK	MADE UP OF No	PC. MK	SIZE	LENGTH	REMARKS	OLD	WEIGHT	CUTS
4	1	L2-4(T1)			AS SHOWN					
4	1	L2-4(T2)			OPP HAND					
5	1	L24-22(T1)			OPP HAND					
5	1	L24-22(T2)			AS SHOWN					
			8		15C33.9	50-0 1/2	MZE	9-418-5	13571.	10
			4	Cov.	PL 13 x 3/8	46-6		9-419-13	3084.	24
			4	Cov.	PL 13 x 3/8	49-11 7/16	(MZE)	Do-12	3313.	24
			8	a	PL 3 1/2 x 1/16	5-5 3/4		9-442-6	3114.	10
			4	b_L^R	L 5 x 3 1/2 x 5/16	1-0 1/2	BOLT FOR SHIFT	119-12	35.	—
			4	c_L^R	DO	1-0 1/2		Do	36.	—
			8	d	PL 12 x 3/8	1-8 1/4		9-423-5	207.	—
			8	e	PL 8 x 1/16	2-5		113-22	230.	—
			4	f_L^R	L 4 x 3 1/2 x 3/8	2-5		119-9	88.	—
			4	g_L^R	DO	2-5		Do	88.	—
			4	h_L^R	PL 28 1/2 x 3/8	3-0 1/2	BENT	8-423-5	442.	—
			4	K	DO	2-10		Do	411.	—
			156		3/4 ø RIVS				671.	—
			8		3/4 ø BOLTS	2 1/2			4.	—
							Gross wt.		25294.	
							WT. DED.		68.	
							Net wt.		25226.	
							PAINT		102.	
							TOTAL wt.		25328.	

J. B

ARROWSIC BRIDGE OVER SASANOA RIVER
ARROWSIC - WOOLWICH
FED. AID PROJ. No. S-154 (2)
CONTRACT No. 2

CHORD MEMBER L2-4(T1) - L24-22(T1)
L2-4(T2) - L24-22(T2)

FOR NOTES ON SPECIFICATIONS, MATERIAL, PAINTING, PUNCHING, DRILLING, REAMING, ETC. SEE SHEET X50

ALL RIVET HOLES & OPEN HOLES PUNCHED
FULL SIZE UNLESS NOTED RA

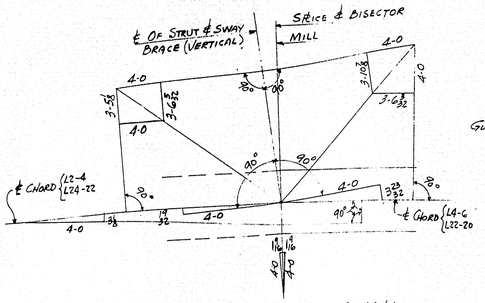
RIVETS 7/8 DIAM. OPEN HOLES 15/16 DIAM. UNLESS OTHERWISE NOTED

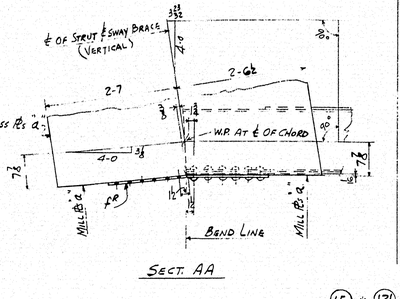
REVISIONS

HARRIS STRUCTURAL STEEL CO.
610 FOURTH AVE., N. Y.

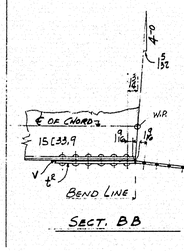
DRAW. MADE BY CZ DATE 12-1-49
DRAW. CHECKED BY WP DATE 1-31-50
CONTRACT No. C378 SHEET No. 121

48-133

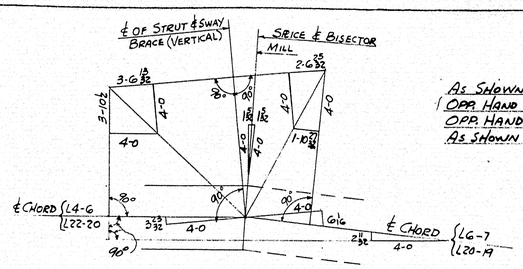




SECT. AA

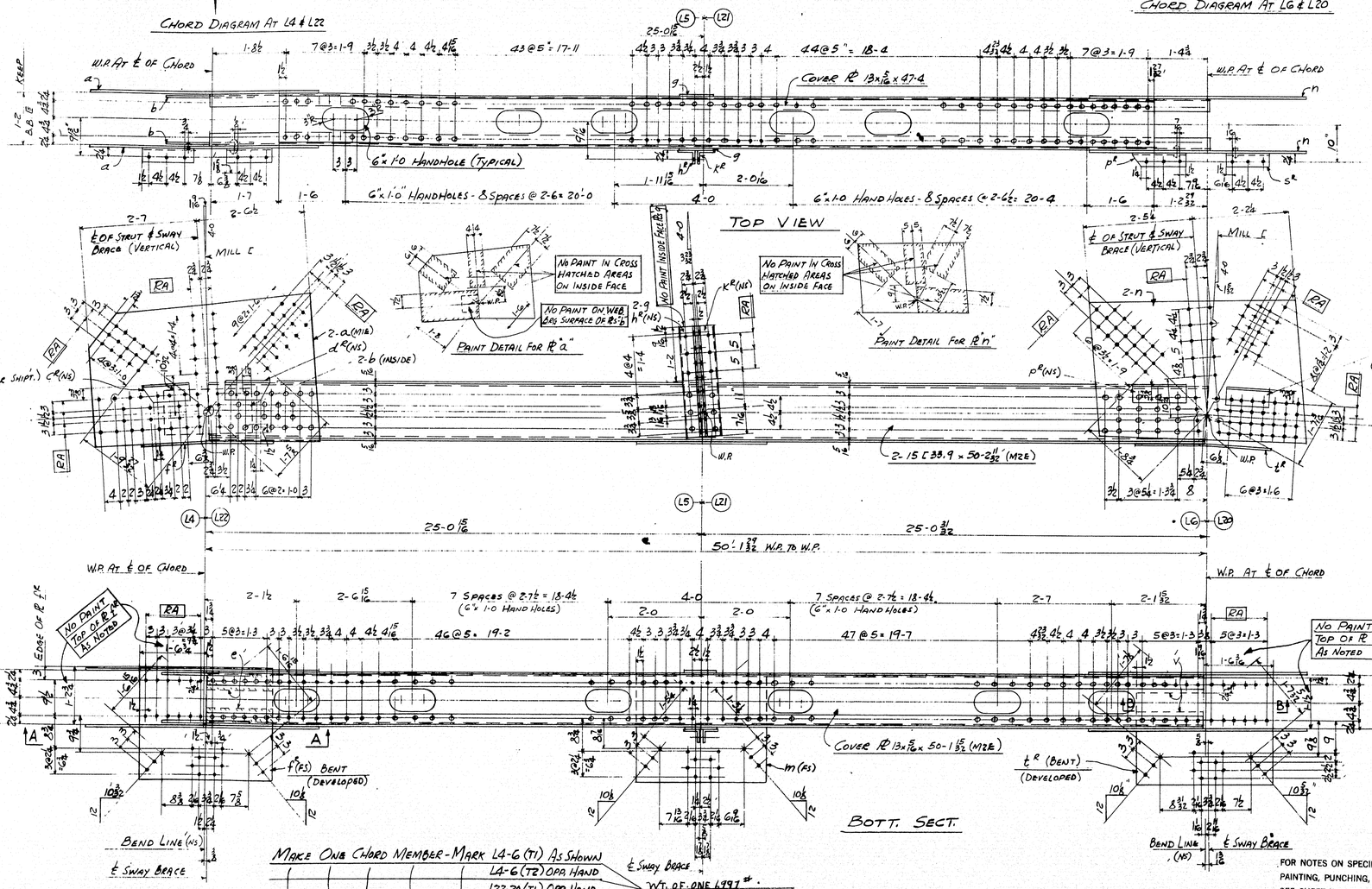


SECT. BB



CHORD DIAGRAM AT LG & L20

CHORD DIAGRAM AT L4 & L22



MAKE ONE CHORD MEMBER - MARK L4-G (T1) AS SHOWN
L4-G (T2) OPP. HAND
L22-20 (T1) OPP. HAND
L22-20 (T2) AS SHOWN
℄ SWAY BRACE
WT. OF ONE 6997 #.

SHIPT No	REQ'D No	MARK
As Shown	4	L4-G (T1)
Opp. Hand	4	L4-G (T2)
Opp. Hand	5	L22-20 (T1)
As Shown	5	L22-20 (T2)

MADE UP PL

No	Pc. Mk	Size	Length	Remarks	Ord	Weight	Sq. Cuts
8		15 C 33.9	50-2 11/32	(M2E)	9-418-49	13614.	
4		PL 13x5/16	47-4		9-419-27	2615.	405
4		Do	50-1 27/32	(M2E)	9-419-24	2769.	405
8	a	PL 40x 9/16	5-1½	(M1E)	9-442-5	3195.	227
8	b	PL 126x½	2-0		9-423-1	333.	3
4	c^R	L 5x3½x⅜	1-0¾	Bolt for Shipt.	119-8	44.	3
4	d^R	Do	1-0¾	Do		44.	3
8	e	Fill 4x1/16	1-6			10.	
4	f^R	PL 29⅞x⅜	3-0¾	Bent	9-423-5	464.	
8	g	PL 8x1/16	2-6½		113-22	239.	
4	h^R	L 4x3½x⅜	2-6½		119-9	91.	
4	k^R	Do	2-6½	Do		91.	
4	m	PL 28½x⅜	2-9½		9-423-5	406.	
8	n	PL 39½x⅜	4-9½		121-11	3925.	289
4	p^R	L 5x3½x⅜	1-2		119-8	49.	1
4	s^R	Do	1-0	Bolt for Shipt.	Do	42.	
4	t^R	PL 28½x⅜	3-0¼	Bent	9-423-5	439.	
8	V	Fill 4x1/16	1-6½			10.	
2280		⅞ø Rivs				821.	
16		¾ Bolts	2½			8.	

Gross Wt.		29209.
Wt. Ded.		1333.
Net Wt.		27876.
Paint		112.
Total Wt.		27988.

ARROWSIC BRIDGE OVER SASANOA RIVER
ARROWSIC - WOOLWICH
FED. AID PROJ. No. S-154 (2)
CONTRACT No. 2

CHORD MEMBERS L4-G (T1) - L22-20 (T1)
L4-G (T2) - L22-20 (T2)

FOR NOTES ON SPECIFICATIONS, MATERIAL, PAINTING, PUNCHING, DRILLING, REAMING, ETC. SEE SHEET X50

ALL RIVET HOLES & OPEN HOLES PUNCHED FULL SIZE UNLESS NOTED RA

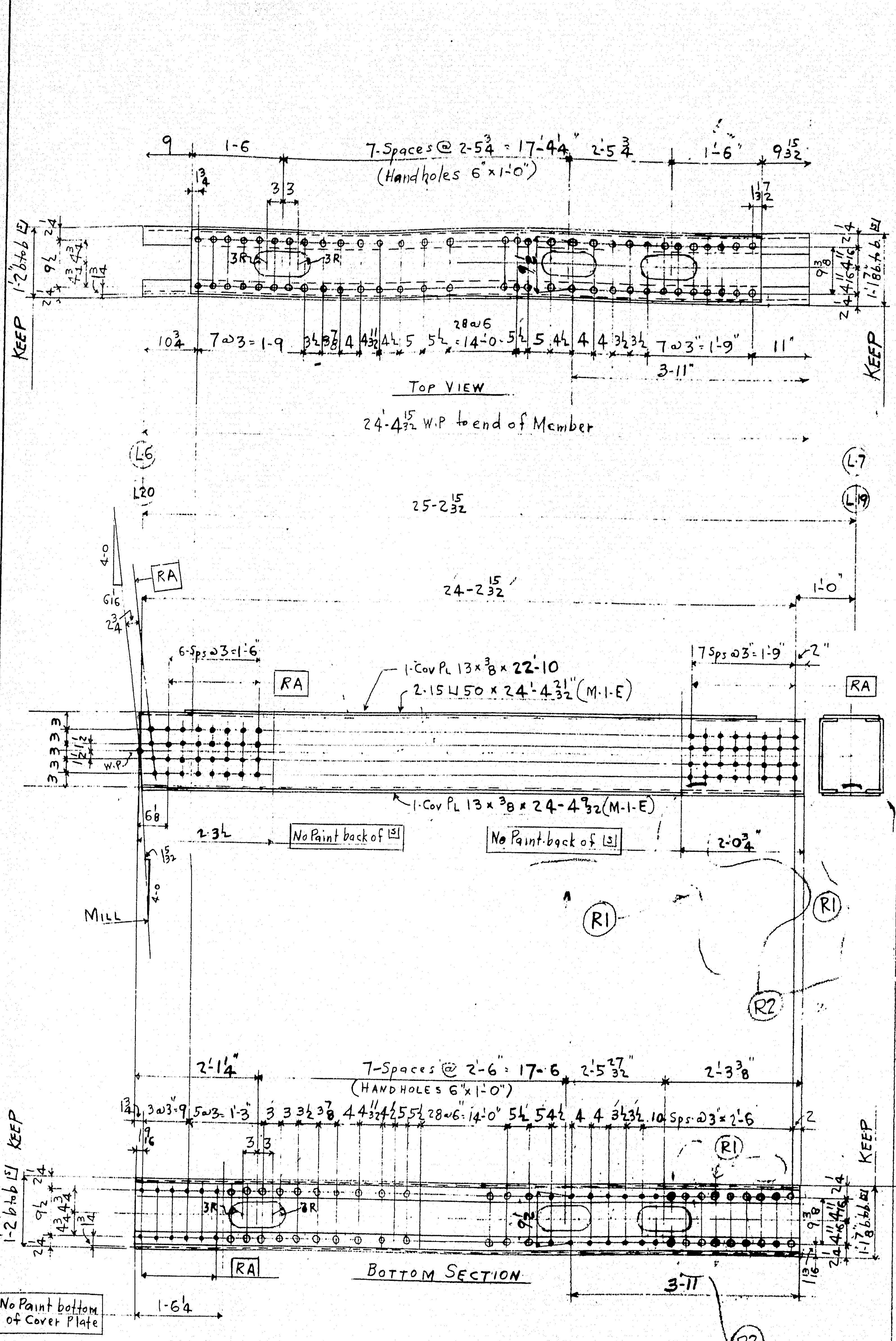
RIVETS ⅞ DIAM. OPEN HOLES 15/16 DIAM. UNLESS OTHERWISE NOTED

REVISIONS

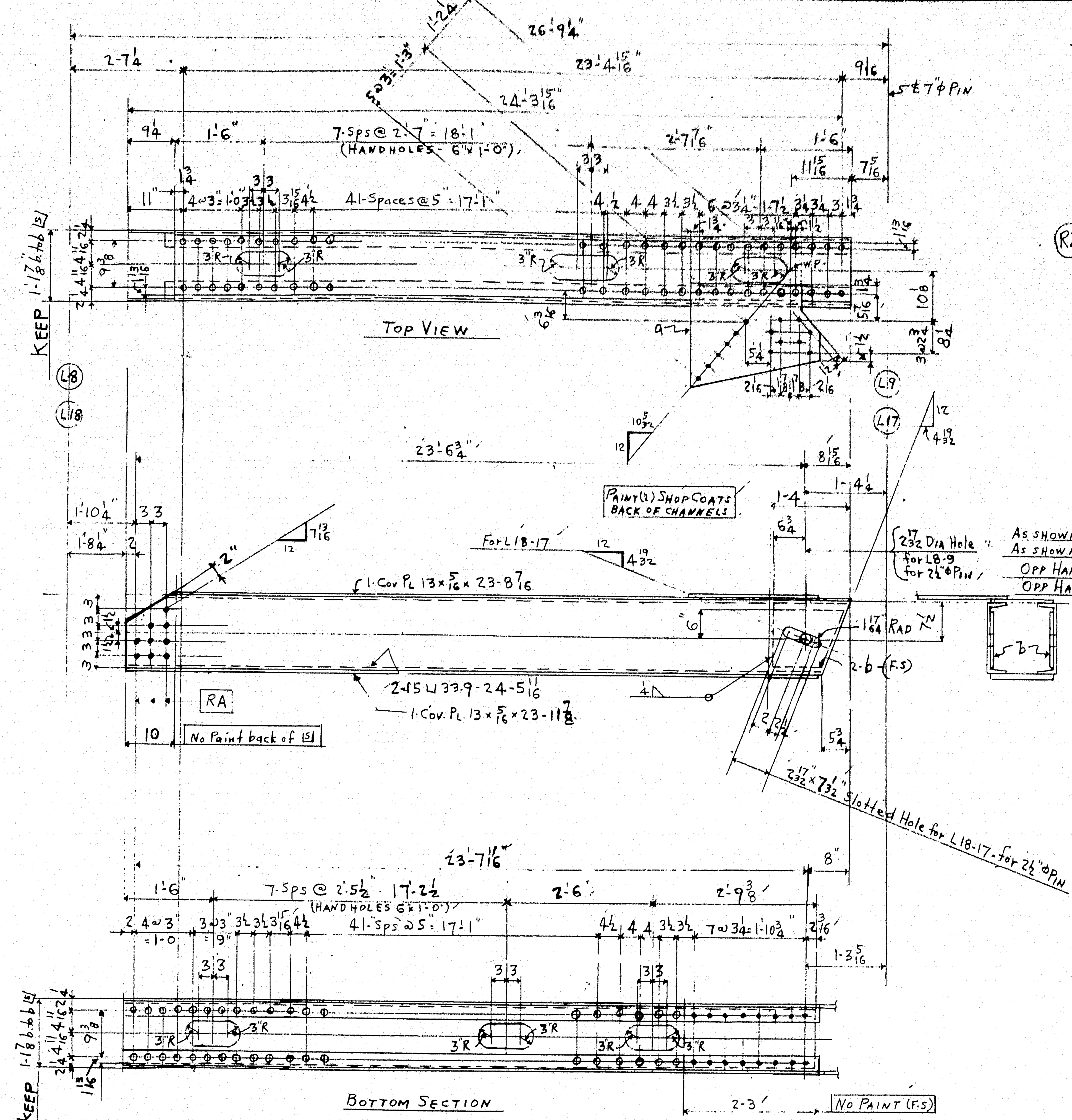
HARRIS STRUCTURAL STEEL CO.
610 FOURTH AVE., N. Y.

DRAWN MADE BY CZ DATE 12-6-49
DRAWN CHECKED BY WP DATE 1-11-50
CONTRACT No. C-325 SHEET No. 122

48-134



MAKE ONE CHORD MEMBER – MARK L6-7 (T1) WT. OF ONE 3191
" ONE " " " L6-7 (T2) do 3191
" ONE " " " L20-19 (T1) do 3191
" ONE " " " L20-19 (T2) do 3191



MAKE ONE CHORD MEMBER – MARK L8-9 (T1) AS SHOWN WT. OF ONE 2378
" ONE " " " L18-17 (T2) " " do 2378
" ONE " " " L8-9 (T2) OPP HAND do 2378
" ONE " " " L18-17 (T1) " " do 2378

SHPT No	No	MARK	No	Pc MK	SIZE	LENGTH	REMARKS	ORD.	WEIGHT	M CUT
					MADE UP OF					
4	1	L6-7 (T1)								
4	1	L6-7 (T2)								
5	1	L20-19 (T1)								
5	1	L20-19 (T2)								
			8		15 ⊏ 50	24-4 21/32	M-1-E	9-418-44	9756	6
			4	Cov	PLs 13 x ⅜	24-4 9/32	M-1-E	9-419-15	1616	237
			4	Cov	PLs 13 x ⅜	22-10		Do -16	1514	237
(R2)	(R1)		856		Rivets ⅞" Φ				308	
As shown 4	1	L8-9 (T1)								
As shown 5	1	L18-17 (T2)								
Opp Hand 4	1	L8-9 (T2)								
Opp Hand 5	1	L18-17 (T1)								
			8		15 ⊏ 33.9	24-5 11/16		9-418-55	6636	131
			4	Cov	PLs 13 x 5/16	23-8 7/16		9-419-37	1309	204
			4	"	PLs 13 x 5/16	23-11⅞		Do	1325	204
			4	a	PLs 21¼ x ⅜	2-2¼		9-423-5	237	36
			8	b	PLs 12 x 9/16	1-2½		9-442-7	222	33
					WELD ¼ Δ	33-6			4	–
			968		Rivets ⅞" Φ				348	–
							Gross Wt.		23275	
							Wt. Ded.		1088	
							Net Wt.		22187	
							Paint		89	
							Tot. Wt.		22276	

L.
B'
W.

ARROWSIC BRIDGE OVER SASANOA RIVER
ARROWSIC - WOOLWICH
FED. AID PROJ. No. S-154 (2)
CONTRACT No. 2

CHORD MEMBER L6-7 (T1) L6-7 (T2)
" " L20-19 (T1) L20-19 (T2)
" " L8-9 (T1) L8-9 (T2)
L18-17 (T1) L18-17 (T2)

FOR NOTES ON SPECIFICATIONS, MATERIAL, PAINTING, PUNCHING, DRILLING, REAMING, ETC. SEE SHEET X50

ALL RIVET HOLES AND OPEN HOLES PUNCHED FULL SIZE UNLESS NOTED [RA]

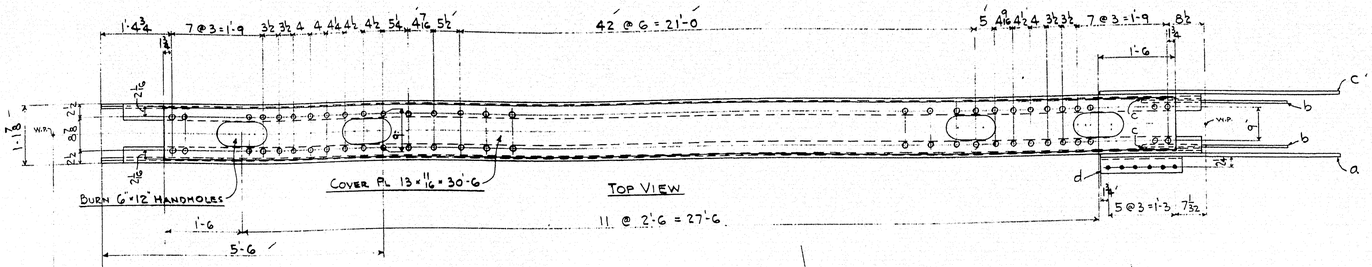
RIVETS ⅞" DIAM. OPEN HOLES 15/16 DIAM. UNLESS OTHERWISE NOTED

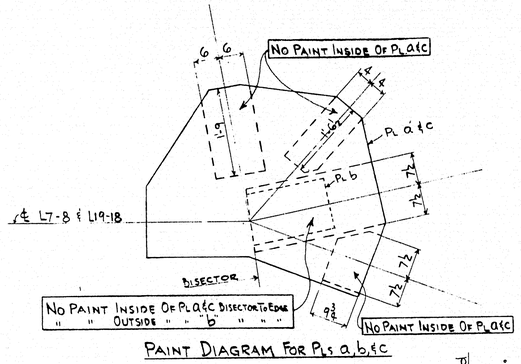
REVISIONS			
R1	1/31/50	L.C. ADDED & AS NOTED	
R2	3/8/50	L.C. REMOVED & AS NOTED	

HARRIS STRUCTURAL STEEL CO.
110 FOURTH AVE., N. Y.

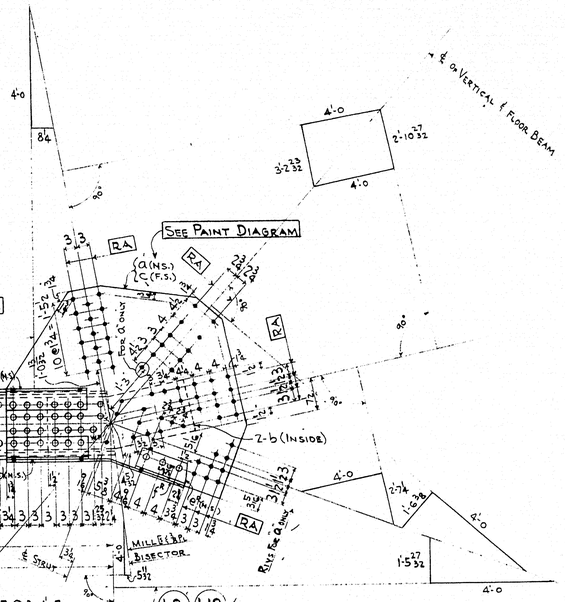
DRAW. MADE BY N M DATE 12-6-49
DRAW. CHECKED BY W P DATE 1-11-50
CONTRACT No. C378 SHEET NO. 123

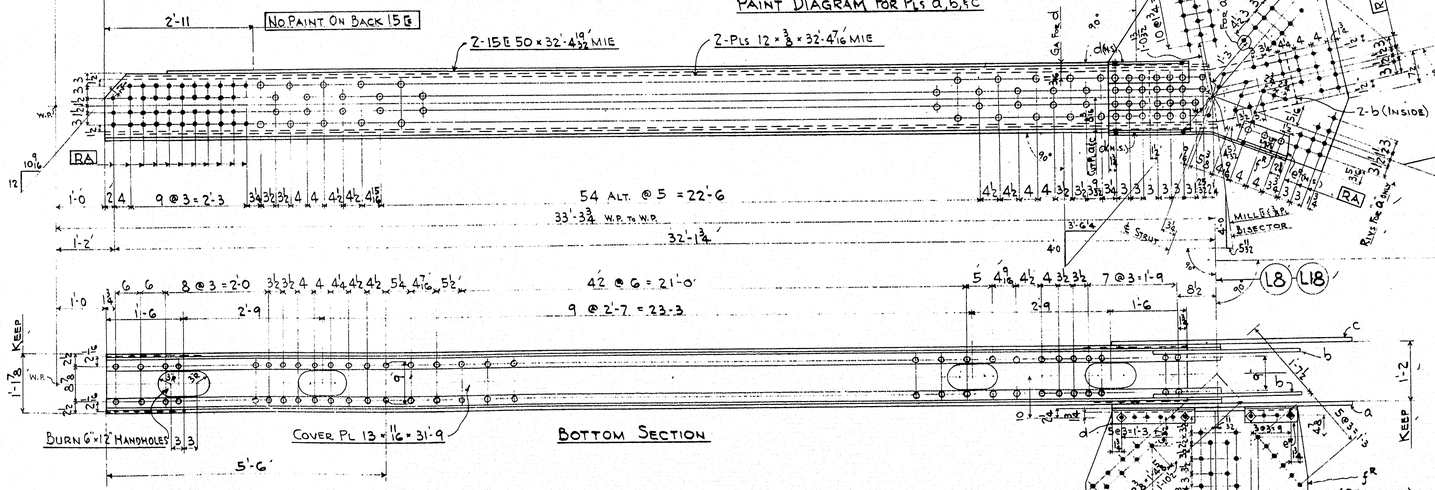
48-135





PAINT DIAGRAM FOR PLS a, b, & c





MAKE-ONE-	BOTTOM CHORD	AS SHOWN	MARK	L7-8 (T1)
" -ONE-	"	" OPP. HAND	"	L7-8 (T2)
" -ONE-	"	" AS SHOWN	"	L19-18 (T2)
" -ONE-	"	" OPP. HAND	"	L19-18 (T1)

WT OF ONE = 7263#

MADE UP OF

Mark	Pcs	Pl Mk	Size	Length	Remarks	Ord	Weight	Cuts
As Shown	4							
Opp Hand	4							
As Shown	5							
Opp Hand	5							
	2		15 C 50	32'-4 19/32	MIE	9-418-41	12952.	
	2		Pls 12×3/8	32'-4 7/16	MIE	103-25	3962.	12
	4	Cover	Pls 13×11/16	30'-6		9-419-7	3709.	580
	4		" Do	31'-9		Do-6	3861.	580
	4	a	Pl 46×3/4	4'-8 3/4		121-10	2248.	461
	2	b	" 15 5/8×1/2	2'-9 13/16		9-423-1	609.	50
	4	c	" 46×3/4	4'-8 3/4	RI	121-10	2248.	461
	2	d	" 5×3 1/2×3/8	1'-6 1/2		119-8	128.	–
	4	e	" Do	1'-0 1/2		Do	13.	–
	4	f	Pl 19 1/2×3/8	4'-4	Bent	9-423-5	431.	28
	2374	Rivets	7/8"				909.	–
	6	Bolts	7/8"	2 1/2"			8.	–

Gross Wt.	31108.
Wt. Ded.	2172.
Net Wt.	28936.
Paint	116.
Tot. Wt.	29052.

CHORD MEMBERS L7-8 (T1) & L19-18 (T1)
" " L7-8 (T2) & L19-18 (T2)

ARROWSIC BRIDGE OVER SASANOA RIVER
ARROWSIC - WOOLWICH
FED. AID PROJ. No. S-154 (2)
CONTRACT No. 2

FOR NOTES ON SPECIFICATIONS, MATERIAL, PAINTING, PUNCHING, DRILLING, REAMING, ETC. SEE SHEET X50

ALL RIVET HOLES AND OPEN HOLES PUNCHED FULL SIZE UNLESS NOTED
RA

RIVETS 7/8 DIAM. OPEN HOLES 15/16 DIAM. UNLESS OTHERWISE NOTED

REVISIONS			
R1	1/31/50	L6TH PL. a & c CHANGED	

HARRIS STRUCTURAL STEEL CO.
625 FOURTH AVE., N. Y.

DRAWN MADE BY A.H. DATE 11-21-49
DESIGN CHECKED BY W.F. DATE 1-14-50
CONTRACT No. C378 SHEET No. 124

48-136

PAINT 2 COATS OF SHOP PAINT
INSIDE " " b^L
INSIDE & OUTSIDE FACE PLS d
OUTSIDE a^L.

NO PAINT CROSS HATCHED AREA
OUTSIDE FACE PLS c
INSIDE FACE PLS b^L

PAINT 2 COATS INSIDE b^R

PAINT DETAIL A

Cov. PL 13 × 5/16 × 45'-8 1/4

BURN 6"×12" HAND HOLES (TYPICAL)

TOP VIEW

SECT. C-C

BORE 2 1/2" HOLE IN PLS b^L

BORE 7.03 +.005 -.000 HOLE IN PLS a^L b^L & d

12-RIVS. CTSK. & CHIP (BS) INSIDE FOR PLS b^R OUTSIDE FOR PLS a^R

OPEN HOLES (NS) WITH PART RT 15R
RIVETS (FS)
OPEN HOLES (NS) WITH PART RT 15R
OPEN HOLES (FS)
RA UNLESS NOTED

FOR PARTS NOT PAINTED AND PARTS PAINTED 2 SHOP COATS SEE PAINT DETAIL A

b^R (OUTSIDE)
2 - c (INSIDE)
2 - d (INSIDE)
a^R (OUTSIDE)
2 - FILLS e

2 - 15C 50 × 49'-23 3/32" (MIE)

OPEN HOLES (NS) WITH PART RT 13R
OPEN HOLES (FS) RA
OPEN HOLES (NS) WITH PART RT 13R
RIVETS (FS)

OPEN HOLES (NS)
RIVETS (FS)

FOR PARTS NOT PAINTED SEE PAINT DETAIL B

2 - PL m

NO PAINT INSIDE OF PLS m

FOR PLS a^L b^L d
FOR PL c
FOR PL d
FOR PL b^R
5R (NS) ONLY
CUT CS FLUSH

BOTTOM SECTION

ONE CHORD MEMBER MARK L9-11 (T1) AS SHOWN
ONE " " " L17-15 (T2) AS SHOWN
} ALIKE WT OF ONE 10900#

ONE CHORD MEMBER MARK L9-11 (T2) OPP. HAND
ONE " " " L17-15 (T1) OPP HAND
} ALIKE WT OF ONE 10700#

PL t^R (DEVELOPED)

OPEN HOLES (NS) WITH RT 14R RA
OPEN HOLES (FS)

CROSS HATCHED AREA ON INSIDE FACE OF PLS n NOT TO BE PAINTED

2 - P (INSIDE)

NO PAINT OUTSIDE PLS P

PAINT DETAIL B

SPLICE & BISECTOR

NO PAINT (NS) PL t

BEND LINE (NS) PL t AND W.P.

℄ FL. BM AT BOTT. OF Cov. PL

SHIPT No	REQD No	MARK	MADE UP OF No	Pc Mk	SIZE	LENGTH	REMARKS	ORD	WEIGHT	CUTS
G	1	L9-11 (T1)	AS SHOWN							
G	1	L17-15 (T2)	AS SHOWN							
G	1	L9-11 (T2)	OPP HAND							
G	1	L17-15 (T1)	OPP HAND							
			8		15C 50	49-23 3/32	MIE	9-418-36	19668	29
			4	cov.	PL 13 × 5/16	45-8 1/4		9-419-25	2524	20
			4	cov	Do	47-11 3/32	MIE	Do-27	2603	20
			8	a^R	PL 33 1/2 × 5/8	4-1 3/4		121-16	2364	900
			8	b^L	PL 53 × 7/8	6-11 1/2		9-442-1	8912	3306
			8	c	PL 30 × 3/8	4-1 1/4		9-423-5	1255	295
			8	d	PL 38 × 3/8	4-8		121-6	4278	1400
			8	e	fill 16 5/8 × 1/4	2-7 7/16		121-12	889	—
			4	5C	L 5 × 3 1/2 × 3/8	1-8 1/2		119-8	71	2
			8	g^R	L 4 × 3 1/2 × 3/8	2-8 3/4		119-9	199	—
			8	h^R	L Do	2-8 3/4		Do	199	—
			4	K	PL 9 1/2 × 3/8	2-8 1/4		9-423-5	132	—
			8	m	PL 20 × 7/16	3-5 7/8		Do-3	831	162
			8	n	PL 42 × 5/8	4-3 1/4		121-15	3095	291
			8	P	PL 12 × 3/8	2-1 1/4		114-9	257	—
			4	S	PL 27 1/2 × 3/8	3-0 1/2		113-27	430	—
			4	t^L	PL 27 1/2 × 3/8	3-0 1/2	DENT	Do	426	—
			2416	RIVS	7/8 ϕ				870	—
			48	CTSK RIVS	7/8 ϕ		CTSK (BS)			—

RT 13L 14R 15R

Gross Wt. 49003.
Wt. DED. 6375.
Net Wt. 42628.
PAINT 172.
TOTAL Wt. 42800.

FOR NOTES ON SPECIFICATIONS, MATERIAL, PAINTING, PUNCHING, DRILLING, REAMING, ETC. SEE SHEET X50
ALL RIVET HOLES & OPEN HOLES PUNCHED FULL SIZE UNLESS NOTED RA OR RT

ARROWSIC BRIDGE OVER SASANOA RIVER
ARROWSIC - WOOLWICH
FED. AID PROJ. No. S-154 (2)
CONTRACT No. 2

CHORD MEMBERS
L9-11 (T1) L9-11 (T2)
L17-15 (T1) L17-15 (T2)

RIVETS 7/8 DIAM OPEN HOLES 15/16 DIAM. UNLESS OTHERWISE NOTED

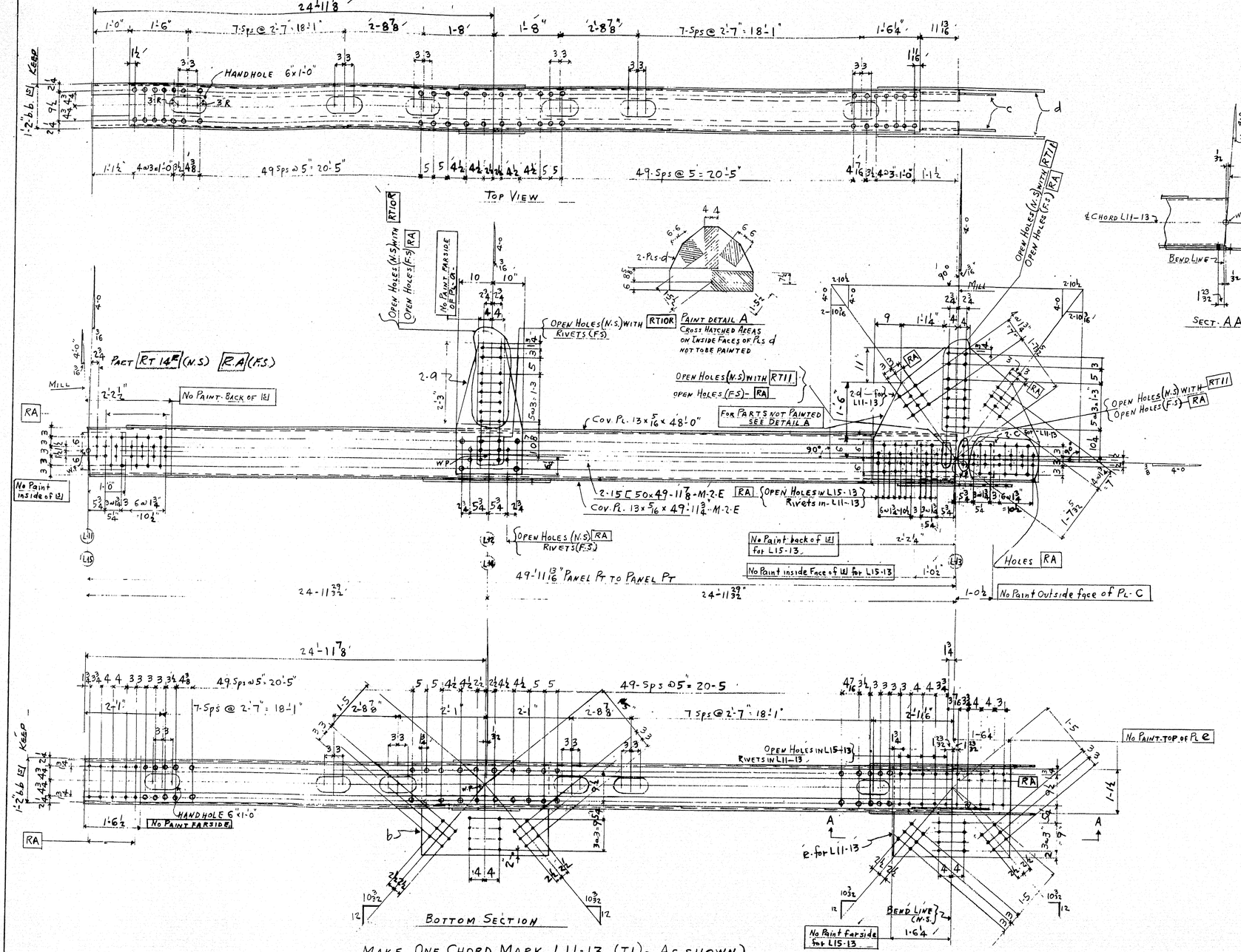
REVISIONS

HARRIS STRUCTURAL STEEL CO.
419 FOURTH AVE., N. Y.

DRAW MADE BY Scu DATE 12-12-49
DRAW. CHECKED BY W.P DATE 1-14-50
CONTRACT No. C278 SHEET No. 125

48-137

0 1 2 3 4 5 INCHES



Make One Chord Mark L11-13 (T1) - As shown
" One " " L15-13 (T2) - " "
" One " " L11-13 (T2) - Opp Hand
" One " " L15-13 (T1) - " "
} Wt. of One = 70.36

Shipt No	As shown	As shown	Opp Hand	Opp Hand
No	1	1	1	1
Mark	L11-13 (T1)	L15-13 (T2)	L11-13 (T2)	L15-13 (T1)

Made up of

No	Pc Mk	Size	Length	Remarks	Ord	Weight	
8		15 L 50	49-11 7/8	M-2-E	9-418-35	19996	2
4	Cov.	Pls 13 x 5/16	49-11 3/4	M-2-E	9-419-24	2761	398
4	"	Pls 13 x 5/16	48-0		Do-26	2652	398
8	a	Pls 20 x 7/16	3-5 7/8		9-423-3	831	161
4	b	Pls 27 1/2 x 3/8	3-0 1/2		113-27	426	-
4	c	Pls 12 x 3/8	2-1 1/4	} For L11-13	114-6	129	-
4	d	Pls 42 x 5/8	4-4 1/2		121-15	1587	351
2	e	Pls 27 1/2 x 3/8	3-0 1/2		113-27	213	-
2016		Rivets 7/8 ø				797	-

Gross Wt.	29342
Wt. Ded.	1310
Net Wt.	28032
Paint	112
Tot. Wt.	28144

RT10F 11-14F L

ARROWSIC BRIDGE OVER SASANOA RIVER
ARROWSIC - WOOLWICH
FED. AID PROJ. No. S-154 (2)
CONTRACT No. 2

Chord Members L11-13 (T1) & L11-13 (T2)
L15-13 (T2) & L15-13 (T1)

For notes on specifications, material, painting, punching, drilling, reaming, etc. see sheet X80
All rivet holes and open holes punched full size unless noted RA or RT.

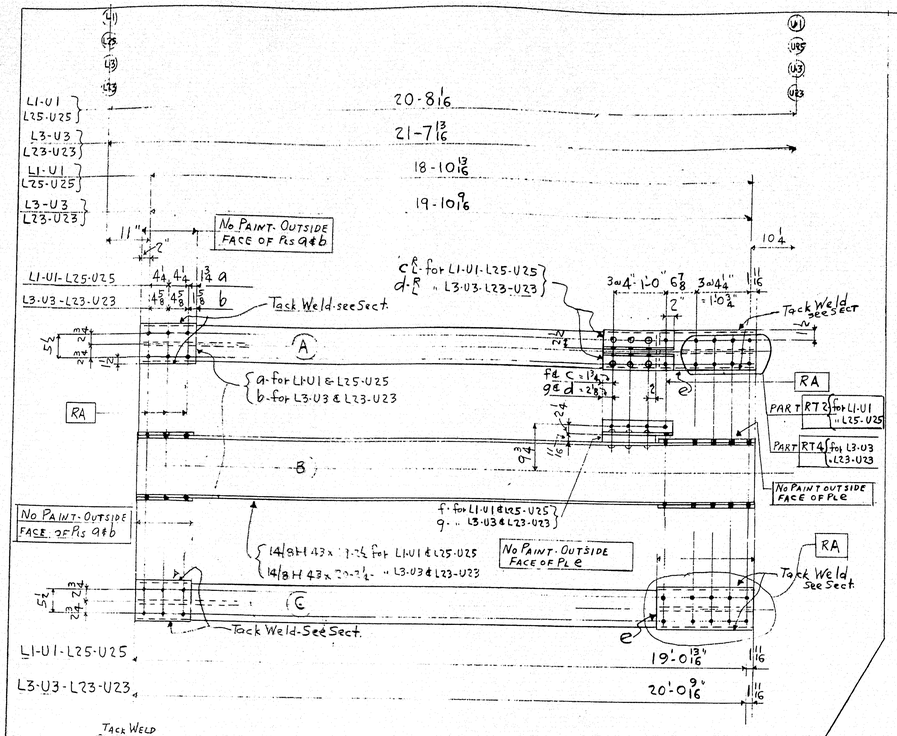
Rivets 7/8 Diam. Open Holes 15/16 Diam. unless otherwise noted

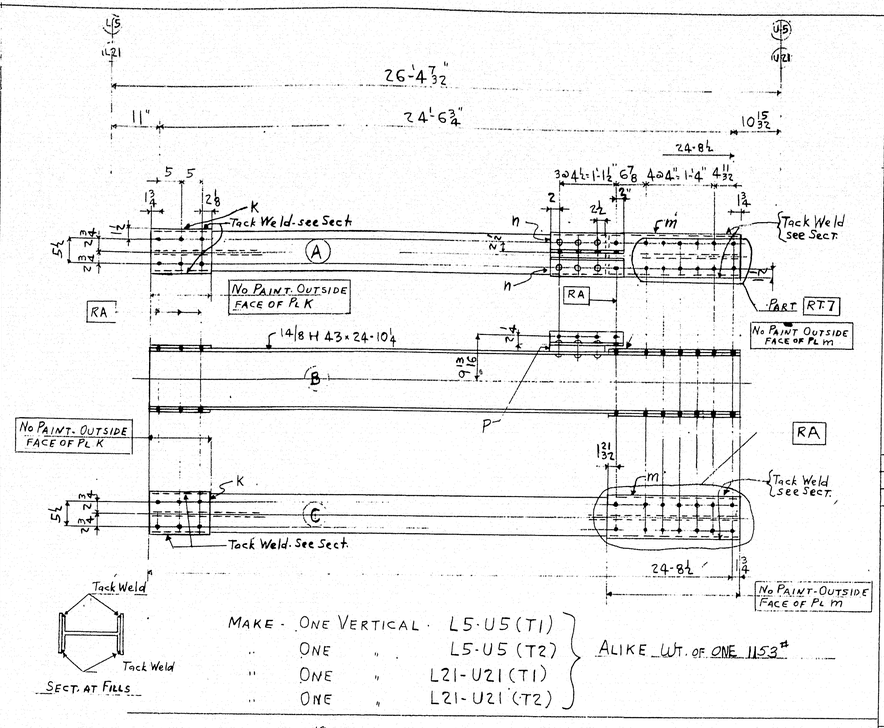
Revisions

Harris Structural Steel Co.
419 Fourth Ave., N. Y.

Draw. made by N.M Date 11-29-49
Draw. checked by W.P. Date 1-16-50
Contract No. 0378 Sheet No. 126

48-138

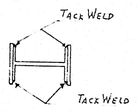




MAKE - ONE VERTICAL - L5-U5 (T1)
" ONE " L5-U5 (T2)
" ONE " L21-U21 (T1)
" ONE " L21-U21 (T2)
} ALIKE WT. OF ONE 1153#

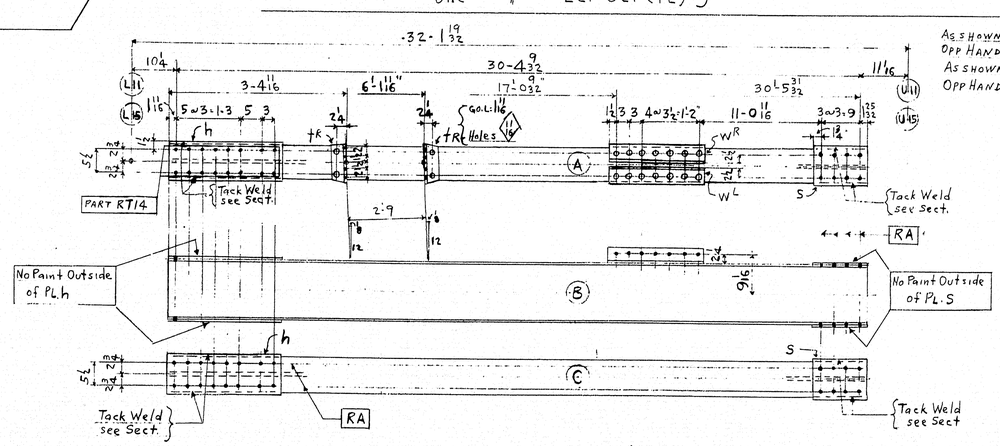
SHT Nº	REQD Nº	MARK	No	PL MK	SIZE	LENGTH	REMARKS	ORD	WEIGHT
4	ONE	L1-U1 (T1)							
4	ONE	L1-U1 (T2)							
5	ONE	L25-U25 (T1)							
5	ONE	L25-U25 (T2)							
4	ONE	L3-U3 (T1)							
4	ONE	L3-U3 (T2)							
5	ONE	L23-U23 (T1)							
5	ONE	L23-U23 (T2)							
			4		14/8 H 43	19-2 1/2	for L1-U1-L25-U25	9-418-32	3304
			4		14/8 H 43	20-2 1/4	" L3-U3-L23-U23	Do-31	3473
			8	a	Pls 8 1/2 x 1/8	1-0 1/4	for L1-U1-L25-U25	119-28	29
			8	b	Pls 8 1/2 x 1/8	1-0 7/8	" L3-U3-L23-U23	Do	31
			8	c & d	L 4 x 3 1/2 x 3/8	1-3 3/4	" L1-U1-L25-U25	119-9	95
			8	d & c	L 4 x 3 1/2 x 3/8	1-4 3/8	" L3-U3-L23-U23	Do	98
			16	e	Pls 8 1/2 x 1/8	1-11		119-28	111
			4	f	Pls 8 1/2 x 11/16	0-11 3/8	for L1-U1-L25-U25	} -16	78
			4	g	Pls 8 1/2 x 11/16	1-0 1/8	" L3-U3-L23-U23	} -16	80
			48		Rivets 7/8 @				17
4	ONE	L5-U5 (T1)							
4	ONE	L5-U5 (T2)							
5	ONE	L21-U21 (T1)							
5	ONE	L21-U21 (T2)							
			4		14/8 H 43	24-10 1/4		9-418-30	4274
			8	k	Pls 8 1/2 x 1/8	1-1 7/8		119-28	39
			8	m	Pls 8 1/2 x 1/8	2-6 5/8		Do	74
			4	p	Pls 8 1/2 x 3/8	1-1 1/2		119-15	98
			8	n	L 4 x 3 1/2 x 3/8	1-5 1/2		119-9	106
			24		Rivets 7/8 @				9
As shown	6	ONE	L11-U11 (T1)						
Opp Hand	6	ONE	L11-U11 (T2)						
As shown	6	ONE	L15-U15 (T2)						
Opp Hand	6	ONE	L15-U15 (T1)						
			4		7/8 H 43	30-7 3/4		9-418-28	5292
			8	h	Fills 8 1/2 x 3/8	2-2 1/4		119-28	64
			8	s	" 8 1/2 x 3/8	1-0 1/2		Do	30
			8	tR	L 3 1/2 x 3 x 5/16	9 1/2		9-422-8	42
			8	w & L	L 4 x 3 1/2 x 3/8	1-11 1/2		119-9	143
			72		Rivets 7/8 @				26
							Gross Wt		17488
							Wt. Dem		1
							Net Wt		17487
							Paint		69
							Tot. Wt.		17556

RT2-4-7&14



MAKE - ONE VERTICAL - L1-U1 (T1)
" ONE " L1-U1 (T2)
" ONE " L25-U25 (T1)
" ONE " L25-U25 (T2)
} ALIKE WT. OF ONE 896#

" ONE " L3-U3 (T1)
" ONE " L3-U3 (T2)
" ONE " L23-U23 (T1)
" ONE " L23-U23 (T2)
} ALIKE WT. OF ONE 990#



MAKE - ONE VERTICAL - MARK L11-U11 (T1) - AS SHOWN
" ONE " " L11-U11 (T2) OPP HAND
" ONE " " L15-U15 (T2) AS SHOWN
" ONE " " L15-U15 (T1) OPP HAND

WT. OF ONE 1900#

VERTICAL MEMBERS.

ARROWSIC BRIDGE OVER SASANOA RIVER
ARROWSIC - WOOLWICH
FED. AID PROJ. No. S-154 (2)
CONTRACT No. 2

FOR NOTES ON SPECIFICATIONS, MATERIAL, PAINTING, PUNCHING, DRILLING, REAMING, ETC. SEE SHEET X50

ALL RIVET HOLES AND OPEN HOLES PUNCHED FULL SIZE UNLESS NOTED RA OR RT

RIVETS 7/8 DIAM. OPEN HOLES 15/16 DIAM. UNLESS OTHERWISE NOTED

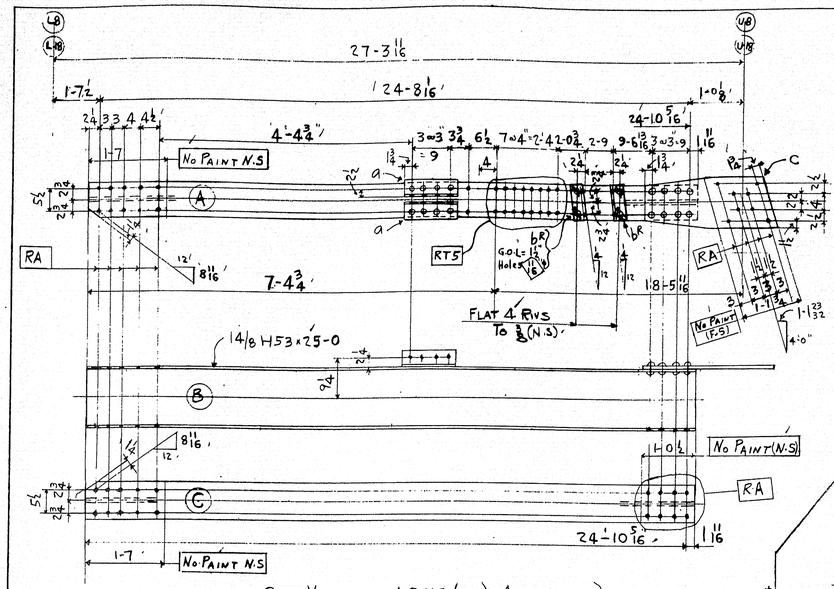
REVISIONS

HARRIS STRUCTURAL STEEL CO.
410 FOURTH AVE., N. Y.

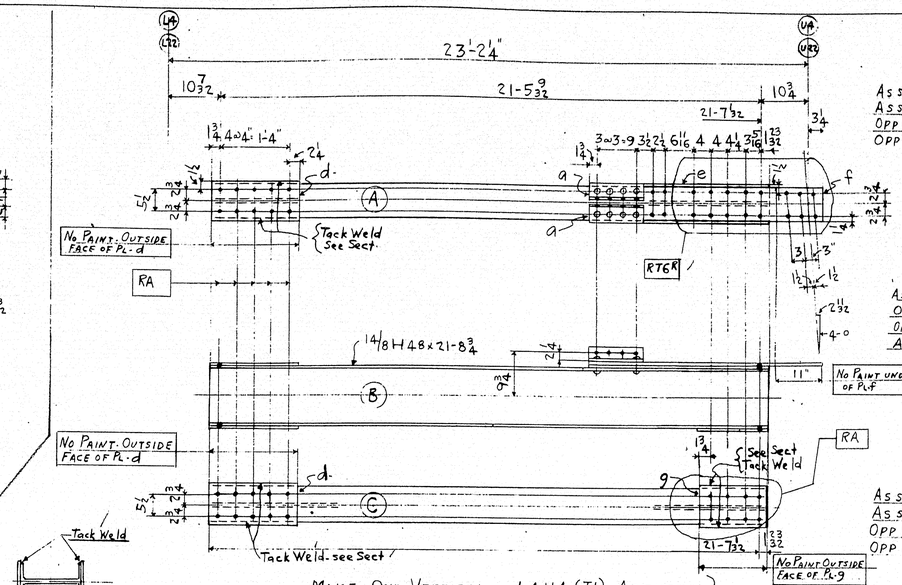
DRAWN, MADE BY NM DATE 12-49
DRAW. CHECKED BY W.K. DATE 1-17-50
CONTRACT NO. C370 SHEET NO. 127

0 1 2 3 4 5 INCHES

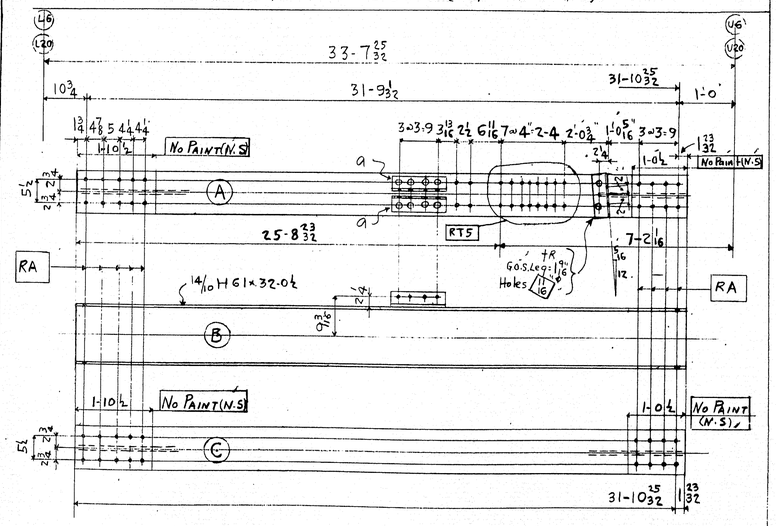
48-139



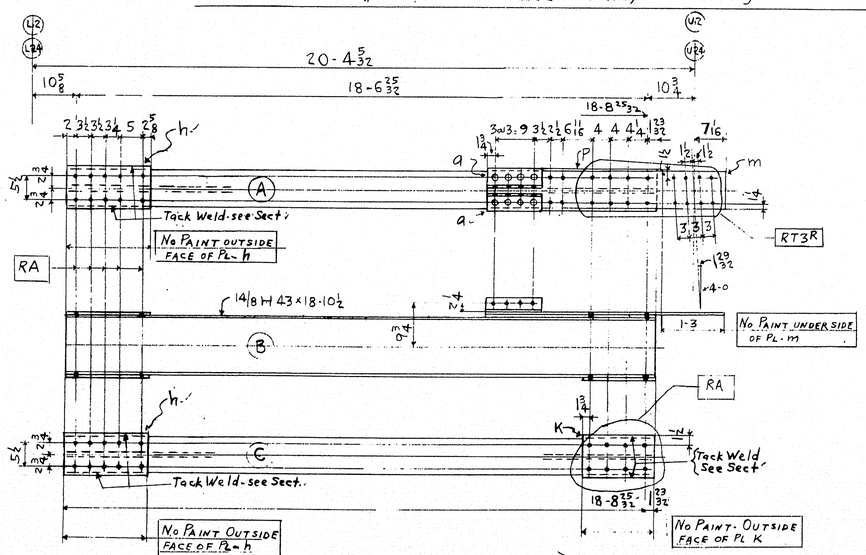
MAKE ONE VERTICAL L8-U8 (T1) AS SHOWN } ALIKE WT. OF ONE 1406#
" ONE " L18-U18 (T2) " " "
" ONE " L8-U8 (T2) OPP HAND } ALIKE do 1407#
" ONE " L18-U18 (T1) " "



MAKE ONE VERTICAL L4-U4 (T1) AS SHOWN } ALIKE WT. OF ONE 1158#
" ONE " L22-U22 (T2) " "
" ONE " L4-U4 (T2) OPP HAND } ALIKE WT. OF ONE 1158#
" ONE " L22-U22 (T1) " "



MAKE ONE VERTICAL - L6-U6 (T1) AS SHOWN
" ONE " L6-U6 (T2) OPP HAND
" ONE " L20-U20 (T1) OPP HAND } WT. OF ONE 1989
" ONE " L20-U20 (T2) AS SHOWN



MAKE ONE VERTICAL L2-U2 (T1) AS SHOWN } ALIKE WT. OF ONE 932
" ONE " L24-U24 (T2) " "
" ONE " L2-U2 (T2) OPP HAND } ALIKE WT. OF ONE 932#
" ONE " L24-U24 (T1) " "

FOR NOTES ON SPECIFICATIONS, MATERIAL, PAINTING, PUNCHING, DRILLING, REAMING, ETC. SEE SHEET X50

ALL RIVET HOLES AND OPEN HOLES PUNCHED FULL SIZE UNLESS NOTED RA OR RT

	SHPT No	REQD No	MARK	No	Pc Mk	SIZE	LENGTH	REMARKS	ORD	WEIGHT
AS SHOWN	4	ONE	L8-U8(T1)							
AS SHOWN	5	ONE	L18-U18(T2)							
OPP HAND	4	ONE	L8-U8(T2)							
OPP HAND	5	ONE	L18-U18(T1)							
				4		14/8 H 53	25-0		9-418-23	5300
				8	a	L 6 x 3 1/2 x 3/8	1-0 1/2		119-9	76
				8	bR	L 3 1/2 x 3 x 7/16	0-8		9-422-1	35
				4	c	Pl 12 x 7/16	2-7 5/8		113-21	185
				80		Rivets 7/8				29
AS SHOWN	4	ONE	L6-U6(T1)							
OPP HAND	4	ONE	L6-U6(T2)							
OPP HAND	5	ONE	L20-U20(T1)							
AS SHOWN	5	ONE	L20-U20(T2)							
				4		14/10 H 61	32-0 1/2		9-418-22	7818
				8	a				119-9	76
				4	bR	L 3 1/2 x 3 x 7/16	0-8		9-422-1	18
				40		Rivets 7/8				19
AS SHOWN	4	ONE	L4-U4(T1)							
AS SHOWN	5	ONE	L22-U22(T2)							
OPP HAND	4	ONE	L4-U4(T2)							
OPP HAND	5	ONE	L22-U22(T1)							
				4		14/8 H 48	21-8 3/4		9-418-25	4172
				8	a				119-9	76
				8	d	Pl 8 1/2 x 1/8	1-8		Do-28	48
				4	e	Pl 8 1/2 x 1/8	3-4 3/4		Do-28	49
				4	f	Pl 8 x 1/2	4-5		113-12	240
				4	9	Pl 8 1/2 x 1/8	1-3		119-28	18
				32		Rivets 7/8				12
AS SHOWN	4	ONE	L2-U2(T1)							
AS SHOWN	5	ONE	L24-U24(T2)							
OPP HAND	4	ONE	L2-U2(T2)							
OPP HAND	5	ONE	L24-U24(T1)							
				4		14/8 H 43	18-10 1/2		9-418-33	3297
				8	a				119-9	76
				8	h	Pl 8 1/2 x 1/8	1-7 7/8		119-28	48
				4	K	Pl 8 1/2 x 1/8	1-3 3/4		Do	19
				4	m	Pl 8 x 1/2	4-5 1/2		113-12	293
				4	P	Pl 8 1/2 x 3/16	3-1 1/2		119-25	68
				32		Rivets 7/8				12

RT3-5 & 6

Gross Wt.	21879.
Wt. Do.	24.
Net Wt.	21855.
Paint	87.
Tot. Wt.	21942.

L J W.

VERTICAL MEMBERS

ARROWSIC BRIDGE OVER SASANOA RIVER
ARROWSIC - WOOLWICH
FED. AID PROJ. No. S-154 (2)
CONTRACT No. 2

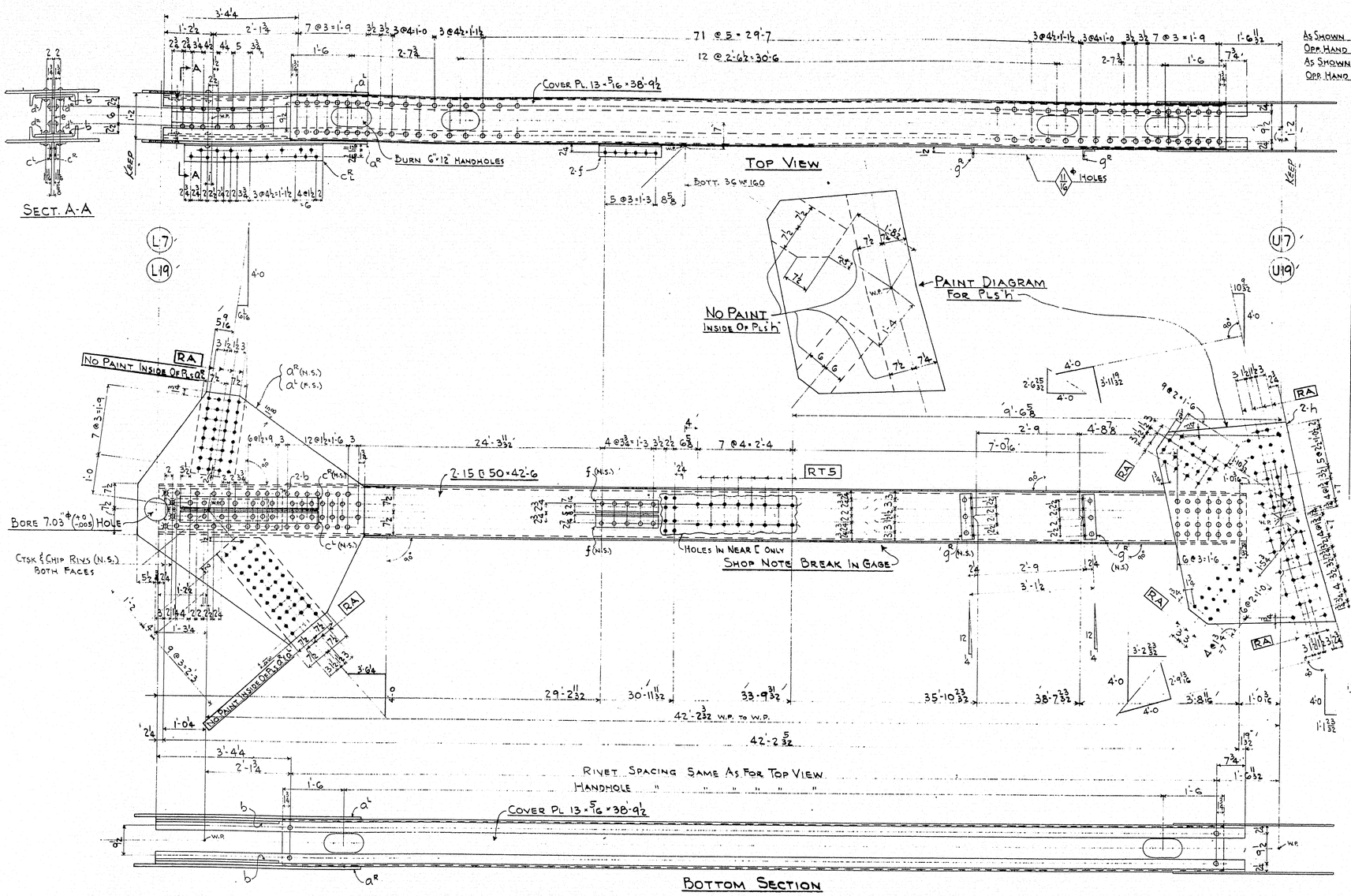
WHERE 7/8 DIAM. OPEN HOLES 15/16 DIAM. UNLESS OTHERWISE NOTED

REVISIONS

HARRIS STRUCTURAL STEEL CO. 420 MADISON AVE., N. Y.

DRWN. CHKD BY. N.M.J. DATE 12-1-49
CHKD. CHECKED BY. W.P. DATE 1-19-50
CONTRACT No. 2378 SHEET No. 128

48-140



Shipt No.	Reqd No.	Mark	Made Up Of No.	Pc. Mk.	Size	Length	Remarks	Ord.	Weight
As Shown	4	1	L7-U7(T1)						
Opp. Hand	4	1	L7-U7(T2)						
As Shown	5	1	L19-U19(T2)						
Opp. Hand	5	1	L19-U19(T1)						
			8		15 C 50	42'-6		9-418-37	17000. 44
			8		Pls 13 - 5/16	38-9 1/2		9-419-31	4286. 681
			8	a L R	Pls 51 × 7/8	5'-8 3/4		9-442-2	7059. 171
			8	b	" 12 × 3/4	3'-0 3/4		113-6	749. 35
			8	c L R	L 5 × 3 1/2 × 3/8	3'-5 1/2		119-8	288. —
			16	d L R	L 4 × 3 × 3/8	2'-5 3/4		119-10	337. —
			4	e	Pls 10 × 1/2	2'-5 1/4	Mic	113-11	166. —
			8	f	L 4 × 3 1/2 × 3/8	1'-6		119-9	109. —
			8	g L R	L 3 1/2 × 3 5/16	1'-0		9-422-8	53. —
			8	h	Pls 41 3/4 - 7/16	5'-5 1/4		9-442-4	3536. 982
			2472	Rivs	7/8"				890. —
								Gross Wt.	39493.
								Wt. Ded.	1313.
								Net Wt.	38180.
								Paint	1328.
								Tot. wt.	39508.

RT5

CUTS K

MAKE-ONE-VERTICAL As Shown Mark L7-U7 (T1) Wt. of one 8323#
" One " Opp. Hand " L7-U7 (T2) de 8323#
" One " As Shown " L19-U19 (T2) de 8329#
" One " Opp. Hand " L19-U19 (T1) de 8329#

FOR NOTES ON SPECIFICATIONS, MATERIAL, PAINTING, PUNCHING, DRILLING, REAMING, ETC. SEE SHEET X50

All Rivet Holes And Open Holes Punch Full Size Unless Noted RA or RT

ARROWSIC BRIDGE OVER SASANOA RIVER
ARROWSIC - WOOLWICH
FED. AID PROJ. No. S-154 (2)
CONTRACT No. 2

VERTICALS L7-U7(T1) & L7-U7(T2)
" L19-U19(T1) & L19-U19(T1)

RIVETS 7/8 DIAM. OPEN HOLES 15/16 DIAM. UNLESS OTHERWISE NOTED

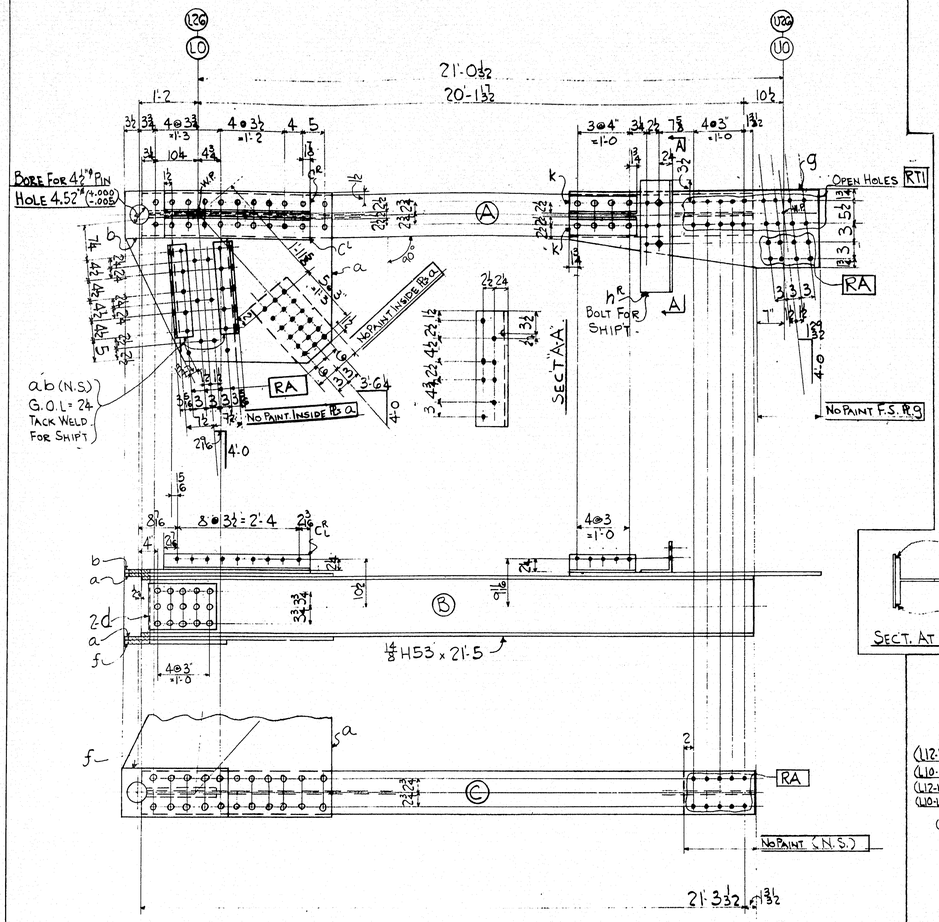
HARRIS STRUCTURAL STEEL CO.
619 FOURTH AVE., N. Y.

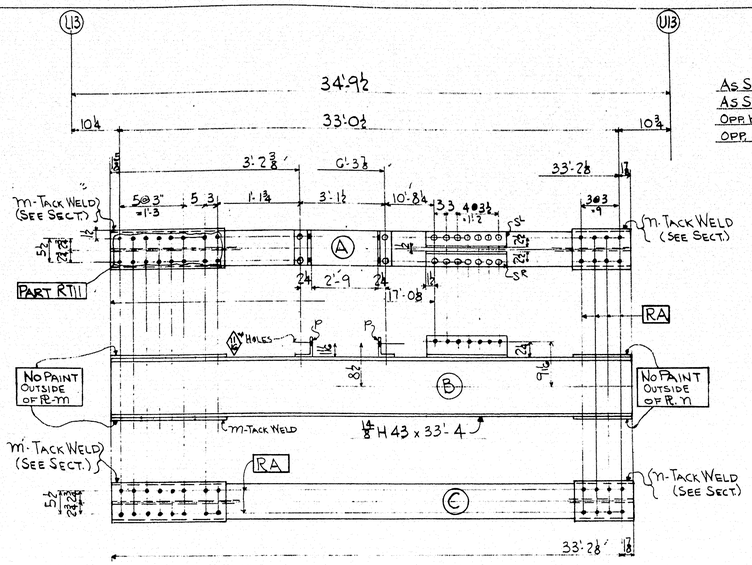
REVISIONS

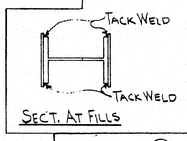
DRAW. MADE BY A.H. DATE 11-23-49
DRAW CHECKED BY W.P. DATE 1-14-50
CONTRACT No. C378 SHEET No. 129

48-141

0 1 2 3 4 5 INCHES



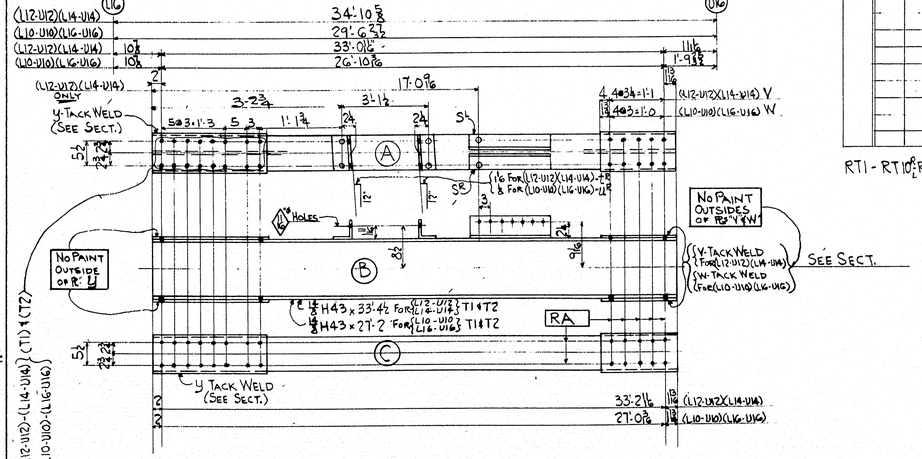




MAKE ONE VERTICAL MARK L13-U13 (T1) } ALIKE Wt OF ONE = 1513.
" ONE " " L13-U13 (T2) }

SHIP No.	REQD No.	REQD MARK	MADE UP OF No.	PL. MK	SIZE	LENGTH	REMARKS	ORD.	WEIGHT.	
AS SHOWN	4	1	(L0-U0) (T1)							
AS SHOWN	5	1	(L26-U26) (T2)							
OPP HAND	4	1	(L0-U0) (T2)							
OPP HAND	5	1	(L26-U26) (T1)							
				4		⅛ H53	21'-5		9-418-24	4591 · 5
				8	a	PL 37½ x ½	3'-11		121-28	2007 · 220
				4	b	PL PR 32½ x ¾	3'-6⅜		113-7	304 · 10
				8	cL	L 4 x 3½ x ⅜	2'-8⅜		119-9	198 · —
				8	d	PR 11 x ⅜	1'-3½	M-1-E	114-7	145 · —
				4	f	PL PR 8½ x ¾	1'-11¾		113-7	172 · 10
				4	g	PR 15 x ⅜	4'-8½		9-423-4	418 · 95
				4	hR	L 5 x 5 x ⅜	1'-8¼		9-422-7	116 · —
				8	K	L 4 x 3½ x ⅜	1'-3½		119-9	99 · —
				208	RIVS	⅞"				96 · —
				8	ab	L 5 x 3½ x 5/16	1'-9		119-12	122 · —
				8	BOLTS	⅞"	2½			9 · —
GG	1	(L13-U13) (T1)								
GG	1	(L13-U13) (T2)								
			2		⅛ H43	33'-4		9-418-27	2866 · —	
			4	m	FILL 8½ x ⅜	2'-2½		119-28	32 · —	
			4	n	do	1'-0⅜		Do	15 · —	
			4	p	L 3½ x 3 x 5/16	8½		9-422-8	19 · —	
			4	SR	L 4 x 3½ x ⅜	1'-11½		119-9	71 · —	
			36	RIVS.	⅞"				13 · —	
AS SHOWN	G	1	L10-U10 (T1)							
AS SHOWN	G	1	L12-U12 (T1)							
AS SHOWN	G	1	L14-U14 (T2)							
AS SHOWN	G	1	L16-U16 (T2)							
OPP HAND	G	1	L10-U10 (T2)							
OPP HAND	G	1	L12-U12 (T2)							
OPP HAND	G	1	L14-U14 (T1)							
OPP HAND	G	1	L16-U16 (T1)							
				4		⅛ H43	33'-4½	L12-U12, L14-U14 (T1) & (T2)	9-418-26	5791 · —
				4		do	27'-2	L10-U10, L16-U16 (T1) & (T2)	Do-29	4673 · —
				16	y	FILL 8½ x ⅜	2'-2¾		119-28	129 · —
				8	SR			L12-U12, L14-U14 (T1) & (T2)	119-9	143 · —
				8	tR	B 3½ x 3 x 5/16	8½	do	9-422-8	37 · —
				8	uR	do	8½	L10-U10, L16-U16 (T1) & (T2)	Do-1	37 · —
				8	W	FILL 8½ x ⅜	1'-3½	do	119-28	37 · —
				8	V	do	1'-6¾	L12-U12, L14-U14 (T1) & (T2)	Do	15 · —
				88	RIVS.	⅞"				32 · —
								GROSS WT.		22107 · —
								WT. DED.		390 · —
								NET WT.		21767 · —
								PAINT		87 · —
								TOT. WT.		21854 · —

RT1 - RT10½ RT11 - RT13½



MAKE ONE VERTICAL - L0-U0 (T1) } AS SHOWN ALIKE
" ONE " - L26-U26 (T2) }
" ONE " - L0-U0 (T2) } OPP HAND ALIKE
" ONE " - L26-U26 (T1) }
Wt OF ONE = 1977.

Wt OF ONE = 1212 — MAKE ONE VERTICAL L10-U10 (T1)
do 1518 — " ONE " L12-U12 (T1) } AS SHOWN
" ONE " L14-U14 (T2)
do 1212 — " ONE " L16-U16 (T2)
" ONE " L10-U10 (T2)
do 1518 — " ONE " L12-U12 (T2) } OPP HAND
" ONE " L14-U14 (T1)
Wt OF ONE = 1212 — " ONE " L16-U16 (T1)

FOR NOTES ON SPECIFICATIONS, MATERIAL, PAINTING, PUNCHING, DRILLING, REAMING, ETC. SEE SHEET X50

ALL RIVET HOLES AND OPEN HOLES PUNCH FULL SIZE UNLESS NOTED RA OR RT

ARROWSIC BRIDGE OVER SASANOA RIVER
ARROWSIC - WOOLWICH
FED. AID PROJ. No. S-154 (2)
CONTRACT No. 2

VERTICAL MEMBERS

RIVETS ⅞" DIAM. OPEN HOLES 15/16" DIAM. UNLESS OTHERWISE NOTED

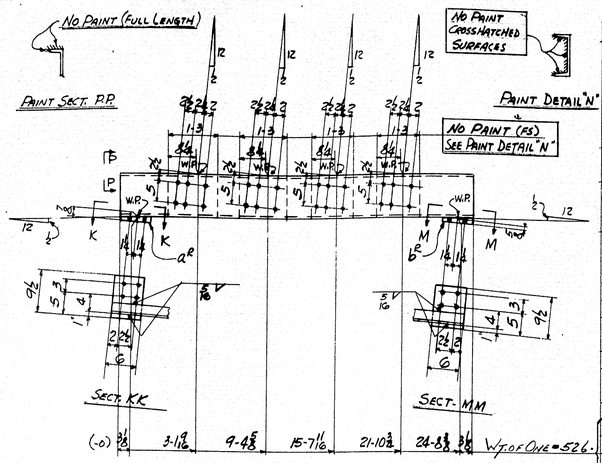
REVISIONS

HARRIS STRUCTURAL STEEL CO.
419 FOURTH AVE., N. Y.

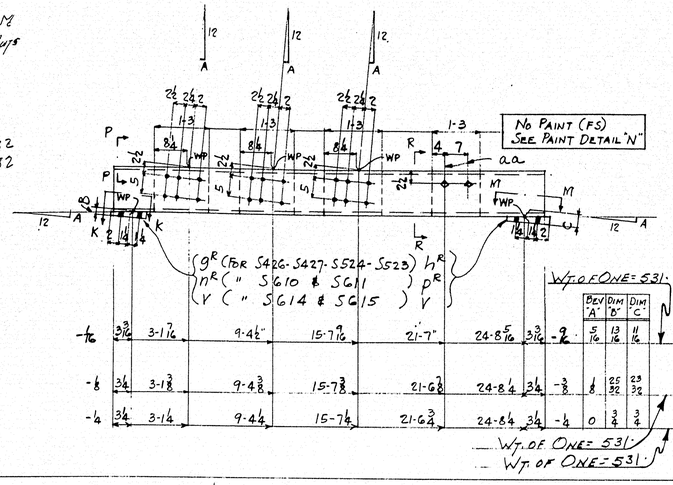
DRAWN BY E DATE 12-2-49
DRAW. CHECKED BY W.L.P. DATE 1-19-50
CONTRACT No. C-318 SHEET No. 130

48-142

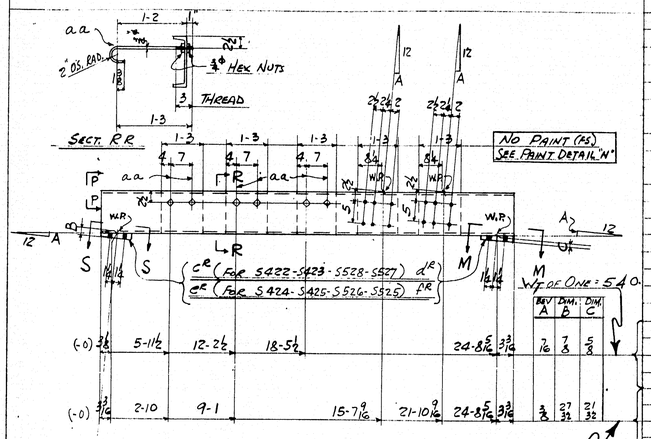
0 1 2 3 4 5 INCHES



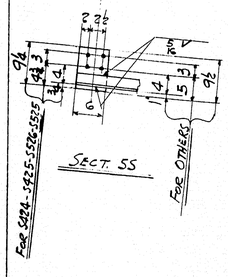
REQ'D. No	MARK	No	Pc Mk	SIZE	LENGTH	REMARKS	ORD.	WEIGHT	M Cwt
16	a_L^R	PL	6x1	9-6		9-423-8		258	32
16	b_L^R	PL	6x2 3/4	9-6		Do		193	32
				5/8 D WELD	32-0				5.
4	S420	4		10C20	24-11 1/2	AS SHOWN	9-418-85	1997.	-
4	S421	4				OPP HAND		1997.	-
4	S530	4				AS SHOWN		1997.	-
4	S529	4		10C20	24-11 1/2	OPP HAND		1997.	-

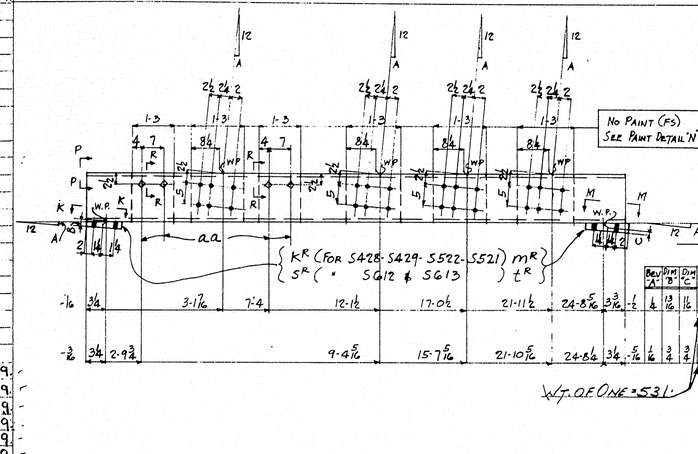


REQD. No	MARK	No	Pc Mk	SIZE	LENGTH	REMARKS	ORD.	WEIGHT	M Cwts
4	g_L^R	PL	6x2 29/32	9-6		9-423-8		58.	5
4	h_L^R	PL	6x2 3/32	9-6		Do		48.	5
4	n_L^R	PL	6x1 9/16	9-6		9-423-9		52.	2
4	p_L^R	PL	6x3/4	9-6		Do		48.	2
8	v	PL	6x2 3/4	9-6		118-27		97.	-
24	aa					118-29		70.	-
						2-HEX. NUT EA.	118-28		
1				5/8 D WELD	24-0			4.	-
1	S426	1		10C20	24-11 1/2	AS SHOWN	9-418-85	499.	-
1	S427	1				OPP. HAND		499.	-
1	S524	1				AS SHOWN		499.	-
1	S523	1				OPP. HAND		499.	-
2	S610	2				AS SHOWN		998.	-
2	S611	2				OPP. HAND		998.	-
2	S614	2				AS SHOWN		998.	-
2	S615	2				OPP. HAND		998.	-



1	S422	1		10C20	24-11 1/2	AS SHOWN	9-418-85	499.	-
1	S423	1				OPP. HAND		499.	-
1	S528	1				AS SHOWN		499.	-
1	S527	1				OPP. HAND		499.	-
1	S424	1				AS SHOWN		499.	-
1	S425	1				OPP. HAND		499.	-
1	S526	1				AS SHOWN		499.	-
1	S525	1		10C20	24-11 1/2	OPP. HAND		499.	-
4	c_L^R	PL	6x3 31/32	9-6		9-423-8		62.	7
4	d_L^R	PL	6x3/4	9-6				48.	7
4	e_L^R	PL	6x1 9/16	9-6				59.	6
4	f_L^R	PL	6x3/4	9-6				48.	6
40	aa	RODS 3/4		1-9 1/2		BENT	118-29	119.	-
						2-HEX. NUTS EA.	118-28		
1				5/8 D WELD	16-0			3.	-
								12773.	





REQD. No	MARK	No	Pc Mk	SIZE	LENGTH	REMARKS	ORD.	WEIGHT	M Cwts
4	k_L^R	PL	6x2 3/8	9-6		9-423-9		56.	4
4	m_L^R	PL	6x3/4	9-6				48.	4
4	s_L^R	PL	6x2 25/32	9-6				50.	1
4	t_L^R	PL	6x3/4	9-6				48.	1
16	aa					118-29		47.	-
						2-HEX. NUT EA.	118-28		
1				5/8 D WELD	16-0			3.	-
1	S428	1		10C20	24-11 1/2	AS SHOWN	9-418-85	499.	-
1	S429	1				OPP. HAND		499.	-
1	S522	1				AS SHOWN		499.	-
1	S521	1				OPP. HAND		499.	-
2	S612	2				AS SHOWN		998.	-
2	S613	2		10C20	24-11 1/2	OPP. HAND		998.	-
								10609.	
							+	12773.	
						GROSS WT.		23382.	
						WT. DED		114.	
						NET WT.		23268.	
						PAINT		92.	
						TOT. WT.		23360.	

R1

ARROWSIC BRIDGE OVER SASANOA RIVER
ARROWSIC - WOOLWICH
FED. AID PROJ. No. S-154 (2)
CONTRACT No. 2

SIDEWALK STRINGERS

FOR NOTES ON SPECIFICATIONS, MATERIAL PAINTING, PUNCHING, DRILLING, REAMING, ETC. SEE SHEET X50

RIVETS 7/8 DIAM. OPEN HOLES 15/16 DIAM. UNLESS OTHERWISE NOTED

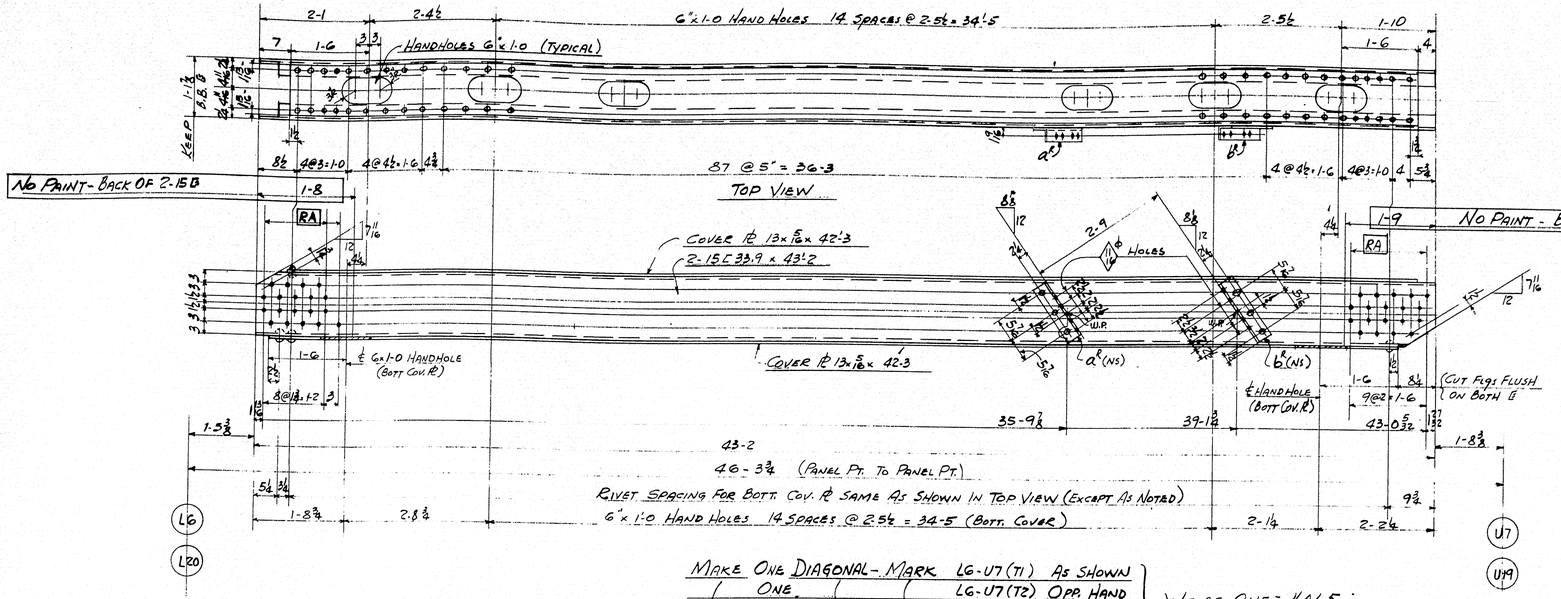
HARRIS STRUCTURAL STEEL CO.
618 FOURTH AVE., N. Y.

REVISIONS			
R1	3/16/50	AS NOTED	

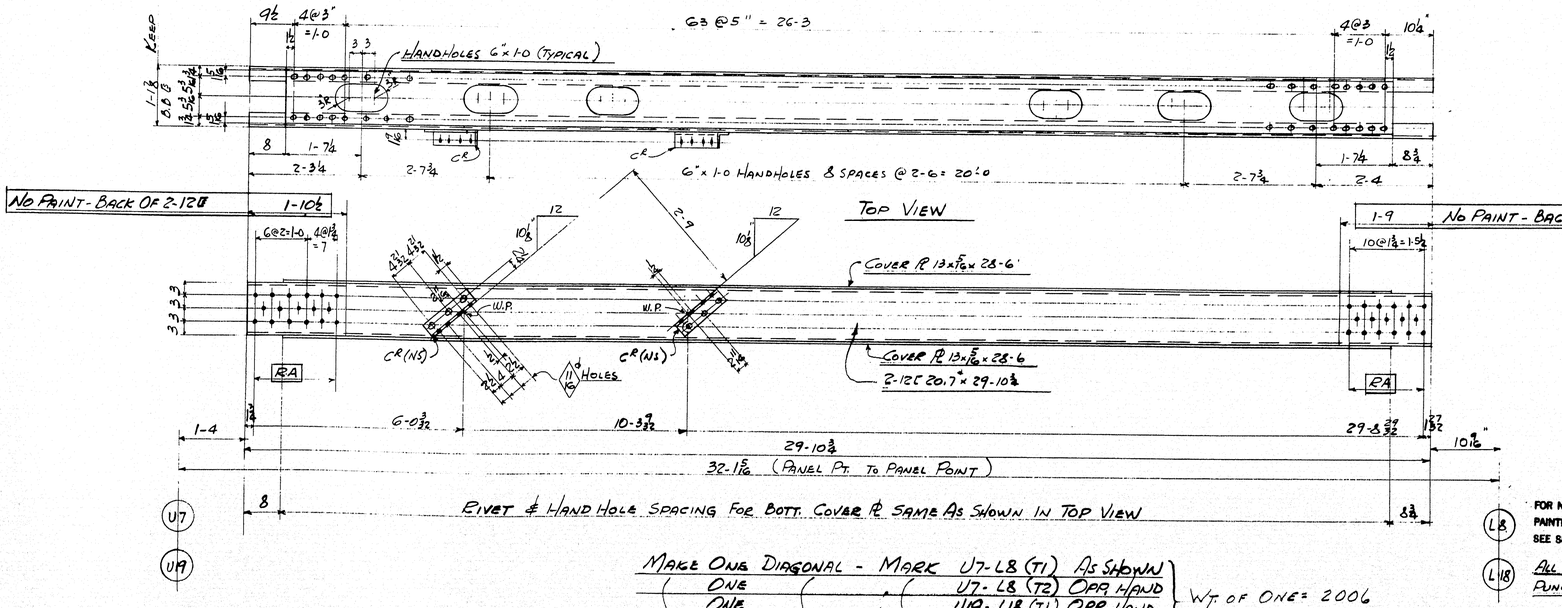
DRAW. MADE BY HLW DATE 2/10/50
DRAW. CHECKED BY WH DATE 2-13-50
CONTRACT No. C378 SHEET No. 131

48-143

0 1 2 3 4 5 INCHES



MAKE ONE DIAGONAL - MARK L6-U7(T1) AS SHOWN
ONE L6-U7(T2) OPP. HAND
ONE L20-U19(T1) OPP. HAND
ONE L20-U19(T2) AS SHOWN
} WT OF ONE = 4065.



MAKE ONE DIAGONAL - MARK U7-L8(T1) AS SHOWN
ONE U7-L8(T2) OPP. HAND
ONE U19-L18(T1) OPP. HAND
ONE U19-L18(T2) AS SHOWN
} WT. OF ONE = 2006

SHIPT NO	REQ'D NO	MARK	MADE UP OF NO	PL MK	SIZE	LENGTH	REMARKS	OBD	WEIGHT
AS SHOWN	4	1	L6-U7(T1)						
OPP HAND	4	1	L6-U7(T2)						
OPP HAND	5	1	L20-U19(T1)						
AS SHOWN	5	1	L20-U19(T2)						
			8		15C33.9	43-2		9-418-53	11708.
			4	Cov	PL 13x5/16	42-3		9-419-29	2339.
			4	Cov	PL 13x5/16	42-3	Do		2334.
			4	aL	L 3½x3x5/16	1-2¼		9-422-8	31.
			4	bL	Do	1-3½	Do		35.
			1720		⅞ø RIVS				619.
AS SHOWN	4	1	U7-L8(T1)						
OPP HAND	4	1	U7-L8(T2)						
OPP HAND	5	1	U19-L18(T1)						
AS SHOWN	5	1	U19-L18(T2)						
			8		12C20.7	29-10¾		9-418-63	4951.
			8	Cov.	PL 13x5/16	28-6		9-419-35	3199.
			8	cL	L 3½x3x5/16	1-0¾		9-422-8	54.
			1176		⅞ø RIVS.				423.
							Gross Wt.		25638.
							Wt. Ded.		1451.
							Net Wt.		24187.
							Paint		97.
							Tot. Wt.		24284.

ARROWSIC BRIDGE OVER SASANOA RIVER
ARROWSIC - WOOLWICH
FED. AID PROJ. No. S-154 (2)
CONTRACT No. 2

DIAGONAL MEMBERS { L6-U7(T1)-(T2) - L20-U19(T1)-(T2) / U7-L8(T1)-(T2) - U19-L18(T1)-(T2) }

FOR NOTES ON SPECIFICATIONS, MATERIAL, PAINTING, PUNCHING, DRILLING, REAMING, ETC. SEE SHEET X50

ALL RIVET HOLES & OPEN HOLES PUNCHED FULL SIZE UNLESS NOTED PA

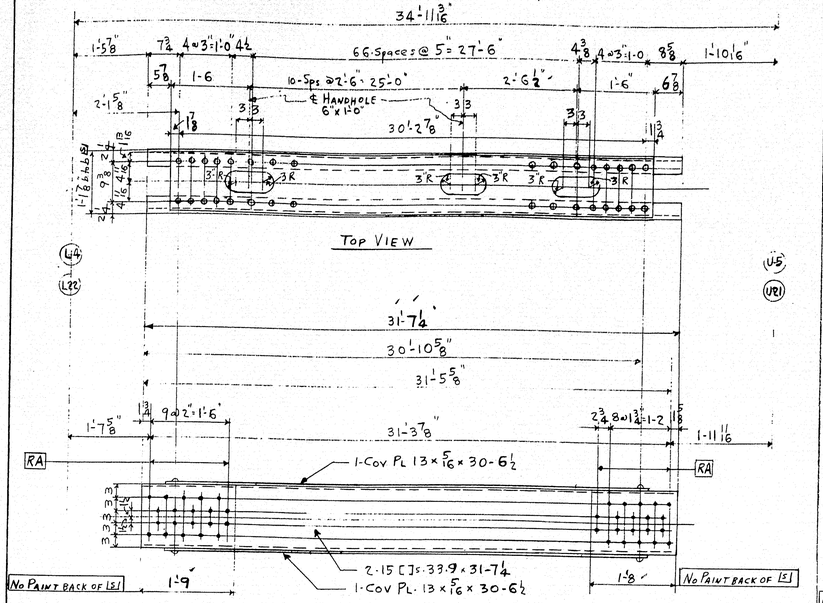
RIVETS 7/8 DIAM. OPEN HOLES 15/16 DIAM. UNLESS OTHERWISE NOTED

HARRIS STRUCTURAL STEEL CO.
420 FOURTH AVE., N. Y.

REVISIONS

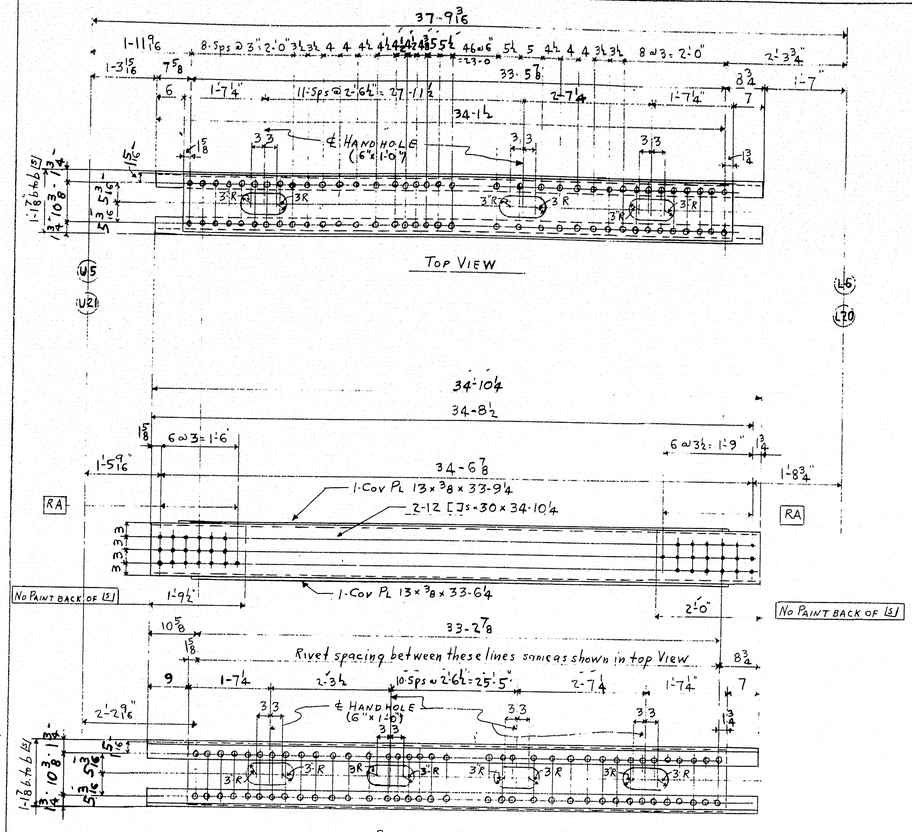
DRAW. MADE BY CZ DATE 11-28-49
DRAW. CHECKED BY PT DATE 1-14-50
CONTRACT No. C378 SHEET No. 132

48-144



Bottom Flange same as Top Flange

Make One Diagonal Mark L4-U5 (T1)
" One " " L4-U5 (T2)
" One " " L22-U21 (T1)
" One " " L22-U21 (T2)
} Wt of One = 2977#



Make One Diagonal Mark U5-L6 (T1)
" One " " U5-L6 (T2)
" One " " U21-L20 (T1)
" One " " U21-L20 (T2)
} Wt of One = 3156#

SHPT NO	REQD NO	REQD MARK	MADE UP OF NO	PC MK	SIZE	LENGTH	REMARKS	ORD	WEIGHT
4	1	L4-U5	(T1)						
4	1	L4-U5	(T2)						
5	1	L22-U21	(T1)						
5	1	L22-U21	(T2)						
			8		15 Is 33.9	31-7 1/4			
			8	Cov	Pls 13 x 5/16	30-6 1/2		9-418-54	8570.-
			1232		Rivets 7/8"			9-419-33	3374.528
									444.-
4	1	U5-L6	(T1)						
4	1	U5-L6	(T2)						
5	1	U21-L20	(T1)						
5	1	U21-L20	(T2)						
			8		12 Is 30	34-10 1/4		9-418-57	8364.-
			4	Cov	Pls 13 x 3/8	33-9 1/4		9-419-14	2240.359
			4	Cov	Pls 13 x 3/8	33-6 1/4		Do	2223.357
			1888		Rivets 7/8"				464.-
							Gross Wt.		25679.
							Wt. Ded.		1296.
							Net Wt.		24933.
							Paint		99.
							Tot. Wt.		25032.

Cuts

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(3

ARROWSIC BRIDGE OVER SASANOA RIVER
ARROWSIC - WOOLWICH
FED. AID PROJ. No. S-154 (2)
CONTRACT No. 2

Diagonals - L4-U5(T1) & L4-U5(T2)
" L22-U21(T1) & L22-U21(T2)
" U5-L6(T1) & U5-L6(T2)
" U21-L20(T1) & U21-L20(T2)

FOR NOTES ON SPECIFICATIONS, MATERIAL, PAINTING, PUNCHING, DRILLING, REAMING, ETC. SEE SHEET X 60

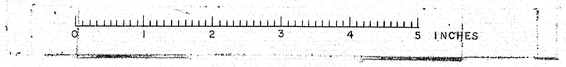
All Rivet Holes and Open Holes Punched Full Size unless noted RA

Rivets 7/8" Diam. Open Holes 15/16" Diam. unless otherwise noted

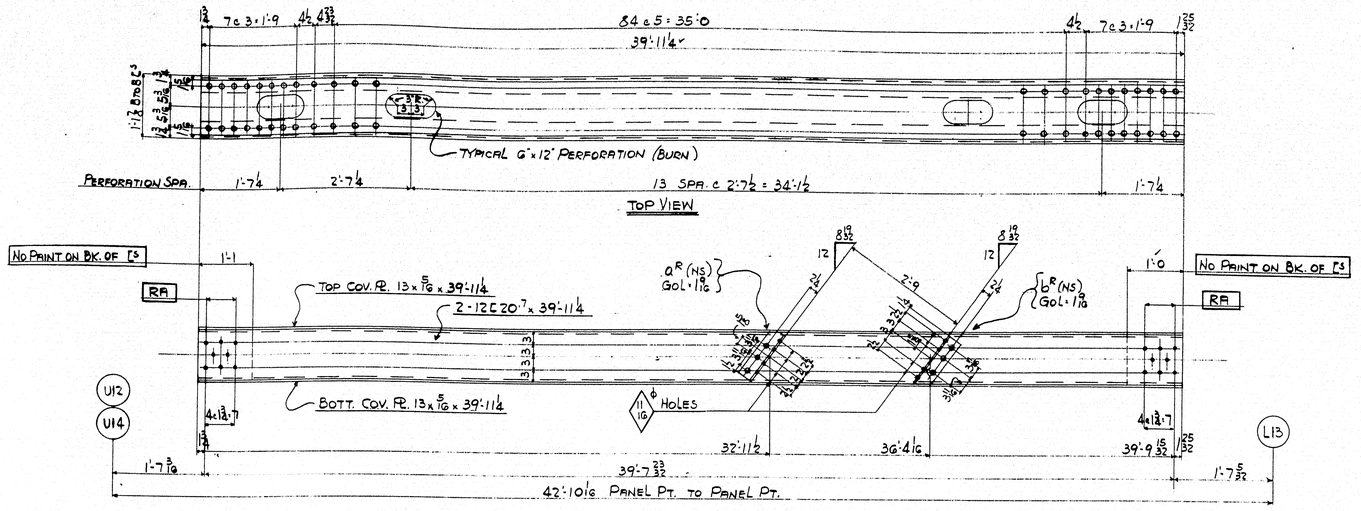
REVISIONS

HARRIS STRUCTURAL STEEL CO.
619 FOURTH AVE., N. Y.

Drawn Made By N.M. Date 12-8-49
Drawn Checked By FT Date 1-16-50
Contract No. C378 Sheet No. 123

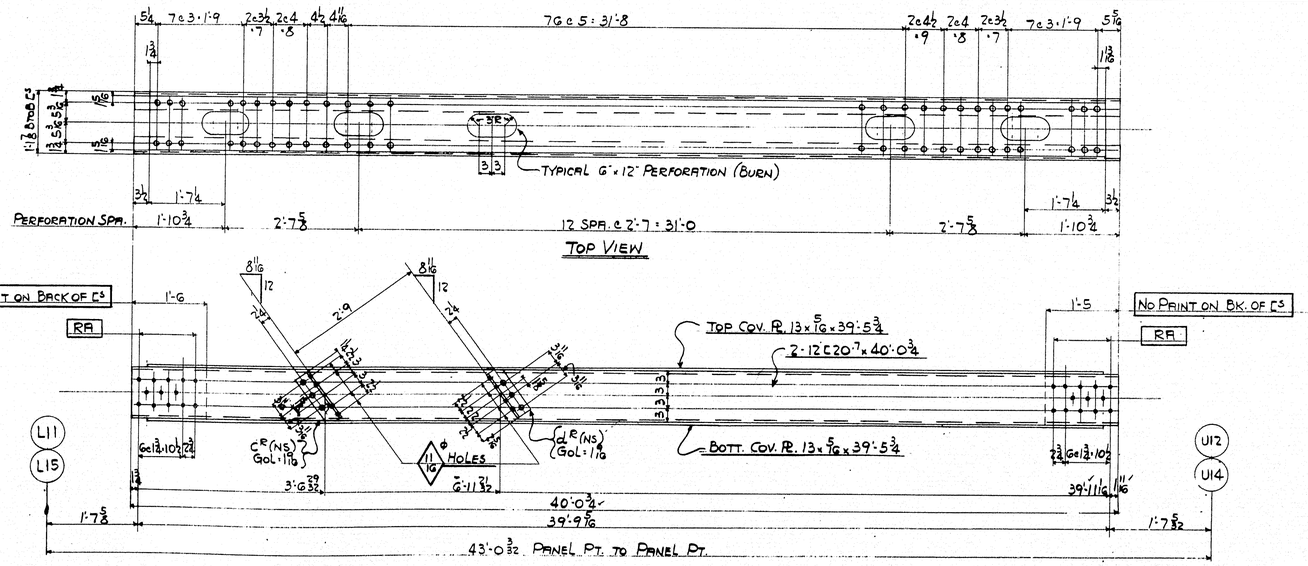


48-145



MAKE		ONE	DIAGONAL	MARK		
"	-	ONE	"	"	-	U12-L13 (T1) AS SHOWN
"	-	ONE	"	"	-	U12-L13 (T2) OPP. HAND
"	-	ONE	"	"	-	U14-L13 (T2) AS SHOWN
"	-	ONE	"	"	-	U14-L13 (T1) OPP. HAND

Wt. of One = 2771.



MAKE		ONE	DIAGONAL	MARK		
"	-	ONE	"	"	-	L11-U12 (T1) AS SHOWN
"	-	ONE	"	"	-	L11-U12 (T2) OPP. HAND
"	-	ONE	"	"	-	L15-U14 (T2) AS SHOWN
"	-	ONE	"	"	-	L15-U14 (T1) OPP. HAND

Wt. of One = 2765.

SHOP MK.	REQ'D No.	MARK	MADE UP OF No.	PC. MK.	SIZE	LENGTH	REMARKS	ORD.	WEIGHT
AS SHOWN	1	U12-L13 (T1)							
OPP. HAND	1	U12-L13 (T2)							
AS SHOWN	1	U14-L13 (T2)							
OPP. HAND	1	U14-L13 (T1)							
			8		12 C 20.7	39'-11¼"		9-418-62	6614. -
			8	COVS.	PL 13 x 5/16	39'-11¼"		9-413-30	4913. 639
			4	a^E	L 3½ x 3 x 5/16	1'-0 3/4"		9-422-8	28. 1
			4	b^E	Do.	1'-1½"		Do	30. 1
			1656	RIVS.	⅞" ϕ				596. -
AS SHOWN	1	L11-U12 (T1)							
OPP. HAND	1	L11-U12 (T2)							
AS SHOWN	1	L15-U14 (T2)							
OPP. HAND	1	L15-U14 (T1)							
			8		12 C 20.7	40'-0¾"		9-418-61	6634. -
			8	COVS.	PL 13 x 5/16	39'-5¾"		9-419-30	9362. 639
			4	c^E	L 3½ x 3 x 5/16	1'-1½"		9-422-8	30. 1
			4	d^E	Do.	1'-0 3/4"		Do	28. 1
			1672	RIVS.	⅞" ϕ				602. -
							Gross Wt.		23337.
							Wt. Ded.		1282.
							Net Wt.		22055.
							Paint		89.
							Tot. Wt.		22144.

ARROWSIC BRIDGE OVER SASANOA RIVER
ARROWSIC - WOOLWICH
FED. AID PROJ. No. S-154 (2)
CONTRACT No. 2

DIAGONALS { U12-L13 (T1) & (T2) U14-L13 (T1) & (T2); L11-U12 (T1) & (T2) L15-U14 (T1) & (T2)

FOR NOTES ON SPECIFICATIONS, MATERIAL, PAINTING, PUNCHING, DRILLING, REAMING, ETC. SEE SHEET X50

ALL RIVET HOLES & OPEN HOLES PUNCHED FULL SIZE UNLESS NOTED RA.

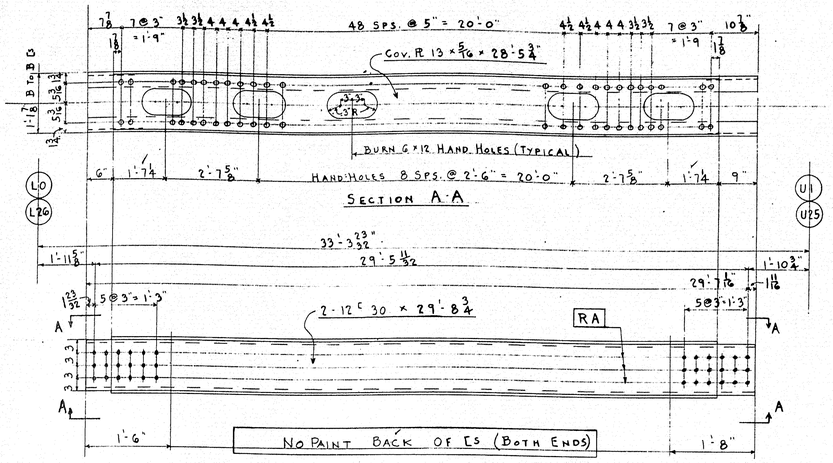
RIVETS ⅞ DIAM. OPEN HOLES 15/16 DIAM. UNLESS OTHERWISE NOTED

REVISIONS

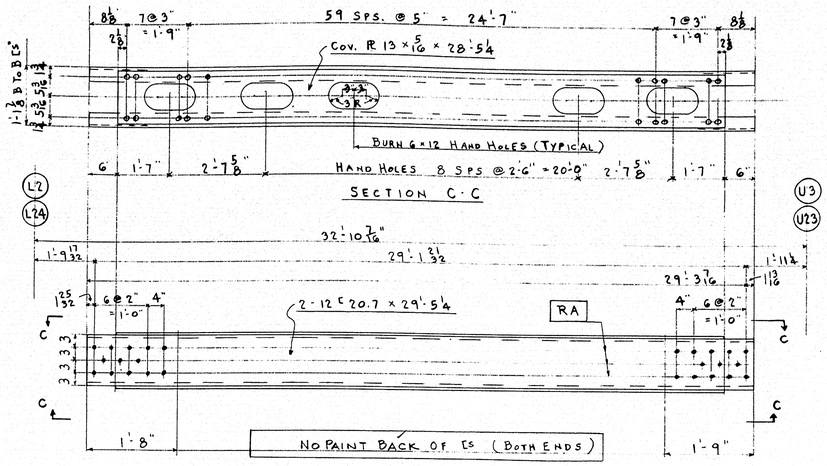
HARRIS STRUCTURAL STEEL CO.
618 FOURTH AVE., N. Y.

DRAW. MADE BY JWV DATE 12/8/49
DRAW. CHECKED BY FT DATE 1-16-50
CONTRACT No. C378 SHEET No. 134

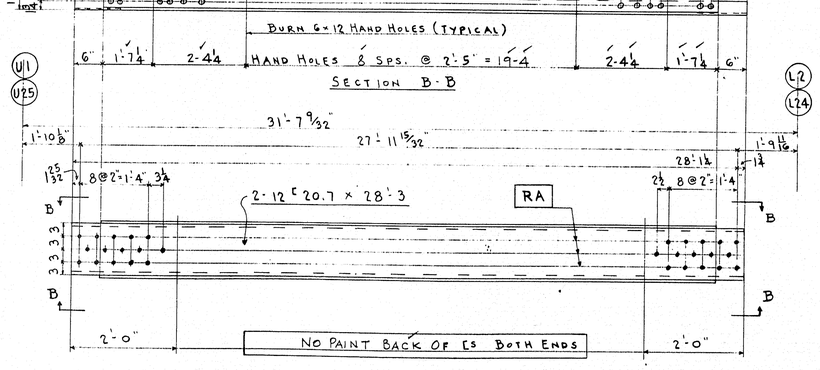
48-146



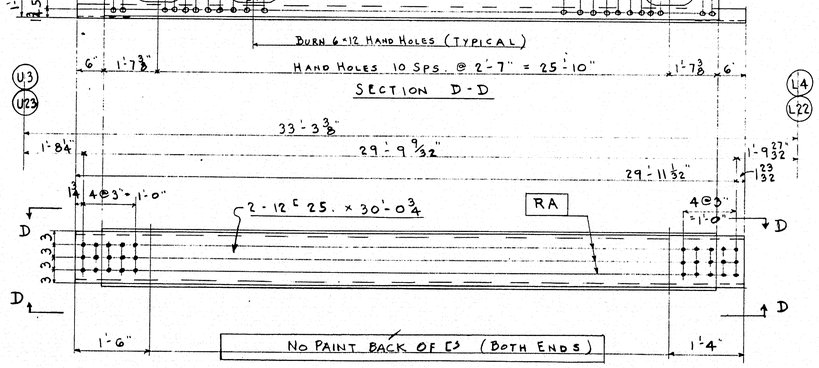
ONE DIAGONAL MEMBER MARK L0-U1 (T1)
ONE " " " L0-U1 (T2)
ONE " " " L2G-U25 (T1)
ONE " " " L2G-U25 (T2)
} (ALIKE) WT. OF ONE 2578#



ONE DIAGONAL MEMBER MARK L2-U3 (T1)
ONE " " " L2-U3 (T2)
ONE " " " L24-U23 (T1)
ONE " " " L24-U23 (T2)
} (ALIKE) WT. OF ONE 2006#



ONE DIAGONAL MEMBER MARK U1-L2 (T1)
ONE " " " U1-L2 (T2)
ONE " " " U25-L24 (T1)
ONE " " " U25-L24 (T2)
} (ALIKE) WT OF ONE 1921#



ONE DIAGONAL MEMBER MARK U3-L4 (T1)
ONE " " " U3-L4 (T2)
ONE " " " U23-L22 (T1)
ONE " " " U23-L22 (T2)
} (ALIKE) WT OF ONE 2292

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SHIPT No	No	MARK	MADE UP OF No	Pc MK	SIZE	LENGTH	REMARKS	ORD	WEIGHT
4	1	L0-U1(T1)							
4	1	L0-U1(T2)	ALIKE						
5	1	L2G-U25(T1)							
5	1	L2G-U25(T2)							
			8		12 C 30.	29'-8 3/4		9-418-58	7135.-
			8	cov.	PL 13 x 5/16	28'-5 3/4		9-419-35	3196.450
			1232	RIVS	7/8 ϕ				444.-
4	1	U1-L2(T1)							
4	1	U1-L2(T2)	ALIKE						
5	1	U25-L24(T1)							
5	1	U25-L24(T2)							
			8		12 C 20.7	28'-3		9-418-65	4678.-
			8	cov	PL 13 x 5/16	27'-3		9-419-36	3011.450
			1152	RIVS	7/8 ϕ				415.-
4	1	L2-U3(T1)							
4	1	L2-U3(T2)	ALIKE						
5	1	L24-U23(T1)							
5	1	L24-U23(T2)							
			8		12 C 20.7	29'-5 1/4		9-418-64	4875.-
			8	cov	PL 13 x 5/16	28'-5 1/4		9-419-35	3142.450
			1184	RIVS	7/8 ϕ				426.-
4	1	U3-L4(T1)							
4	1	U3-L4(T2)	ALIKE						
5	1	U23-L22(T1)							
5	1	U23-L22(T2)							
			8		12 C 25	30'-0 3/4		9-418-60	6012.-
			8	cov	PL 13 x 5/16	29'-0 3/4		9-419-34	3211.541
			1248	RIVS	7/8 ϕ				449.-
							Gross Wt.		36944.
							Wt. Ded.		1891.
							Net Wt.		35053.
							Paint		199.
							Tot. Wt.		35198.

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FOR NOTES ON SPECIFICATIONS, MATERIAL, PAINTING, PUNCHING, DRILLING, REAMING, ETC. SEE SHEET X50

ALL RIVET HOLES & OPEN HOLES PUNCHED FULL SIZE UNLESS NOTED RA

ARROWSIC BRIDGE OVER SASANOA RIVER
ARROWSIC - WOOLWICH
FED. AID PROJ. No. S-154 (2)
CONTRACT No. 2

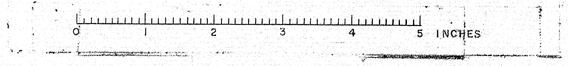
DIAGONALS { L0-U1 (T1) & (T2) L2G-U25 (T1) & (T2); U1-L2 U25-L24; L2-U3 L24-U23; U3-L4 U23-L22 }

RIVETS 7/8 DIAM. OPEN HOLES 15/16 DIAM. UNLESS OTHERWISE NOTED

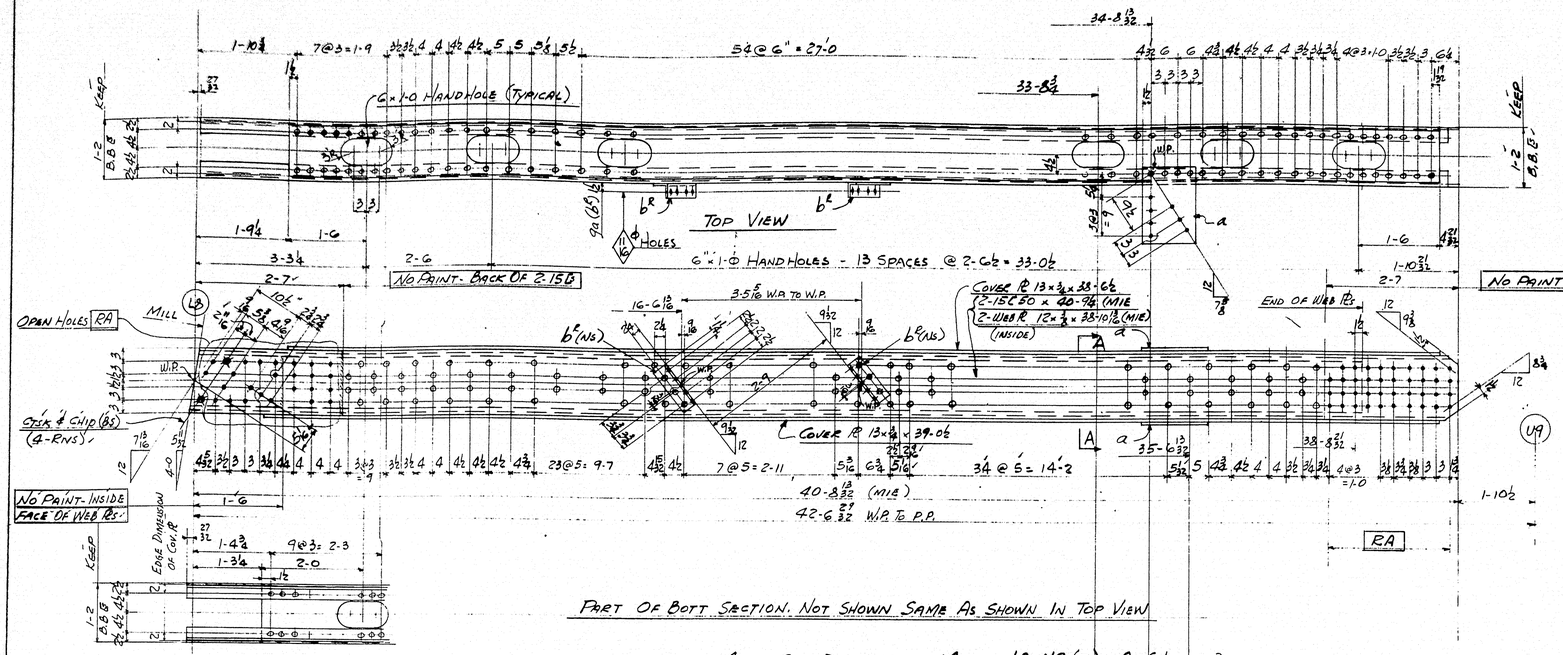
HARRIS STRUCTURAL STEEL CO.
619 FOURTH AVE., N. Y.

REVISIONS

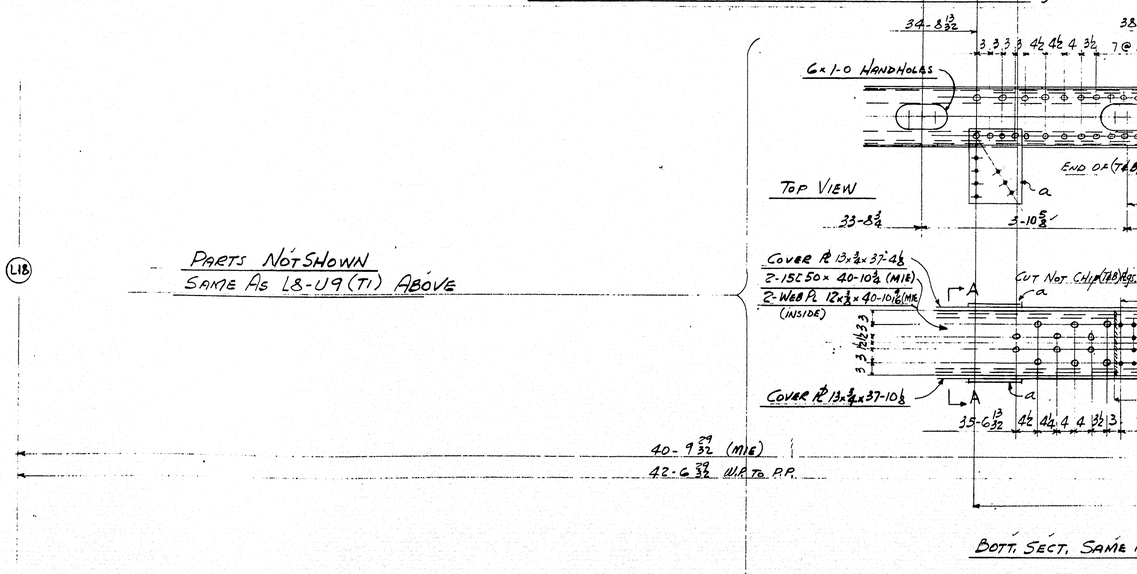
DRAW. MADE BY KEMP DATE 12-5-49
DRAW. CHECKED BY FT DATE 1-16-50
CONTRACT No. 5378 SHEET No. 135



48-147



MAKE ONE DIAGONAL - MARK L8-U9 (T1) AS SHOWN
MAKE ONE DIAGONAL - MARK L8-U9 (T2) OPP HAND
} WT OF ONE = 7790.



PARTS NOT SHOWN
SAME AS L8-U9 (T1) ABOVE

MAKE ONE DIAGONAL - MARK L8-U17 (T2) AS SHOWN
MAKE ONE DIAGONAL - MARK L8-U17 (T1) OPP HAND
} WT OF ONE = 7789.

SHIPT No	REQ'D No	MARK	MADE UP OF No	PC MK	SIZE	LENGTH	REMARKS	ORD	WEIGHT
AS SHOWN	4	1 L8-U9(T1)							
OPP HAND	4	1 L8-U9(T2)							
			4		15C50	40-9⅞	M1E	9-418-39	8151. 18
			4		Web Pl 12x⅜	38-10 13/16	M1E	9-419-19	2381. 2
			2		Cov Pl 13x¾	38-6½		Do -5	2559. 398
			2		Do	39-0½		Do -4	2592. 398
			4	a	Pl 12x⅜	1-5¼		9-423-5	88. —
			4	b^R	L 3½x3x5/16	11½'		9-422-1	25. —
			1480		⅞Φ Rvs				533. —
AS SHOWN	5	1 L8-U17(T2)							
OPP HAND	5	1 L8-U17(T1)							
			4		15C50	40-10¾	M1E	9-418-38	8180. 45
			4		Web Pl 12x⅜	40-10 7/16	M1E	9-419-18	2502. 2
			2		Cov Pl 13x¾	37-4½		-4	2479. 370
			2		Do	37-10⅝		-4	2513. 370
			4	a				9-423-5	88. -
			4	b^R				9-422-1	25. -
			1420		⅞Φ Rvs				518. -
							Gross Wt.		32637.
							Wt. Ded.		1603.
							Net Wt.		31034.
							Paint		124.
							Tot. Wt.		31158.

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ARROWSIC BRIDGE OVER SASANOA RIVER
ARROWSIC - WOOLWICH
FED. AID PROJ. No. S-154 (2)
CONTRACT No. 2

DIAGONALS L8-U9 (T1) - L18-U17 (T2)
L8-U9 (T2) - L18-U17 (T1)

FOR NOTES ON SPECIFICATIONS, MATERIAL, PAINTING, PUNCHING, DRILLING, REAMING, ETC. SEE SHEET X50

ALL RIVET HOLES & OPEN HOLES PUNCHED FULL SIZE UNLESS NOTED RA

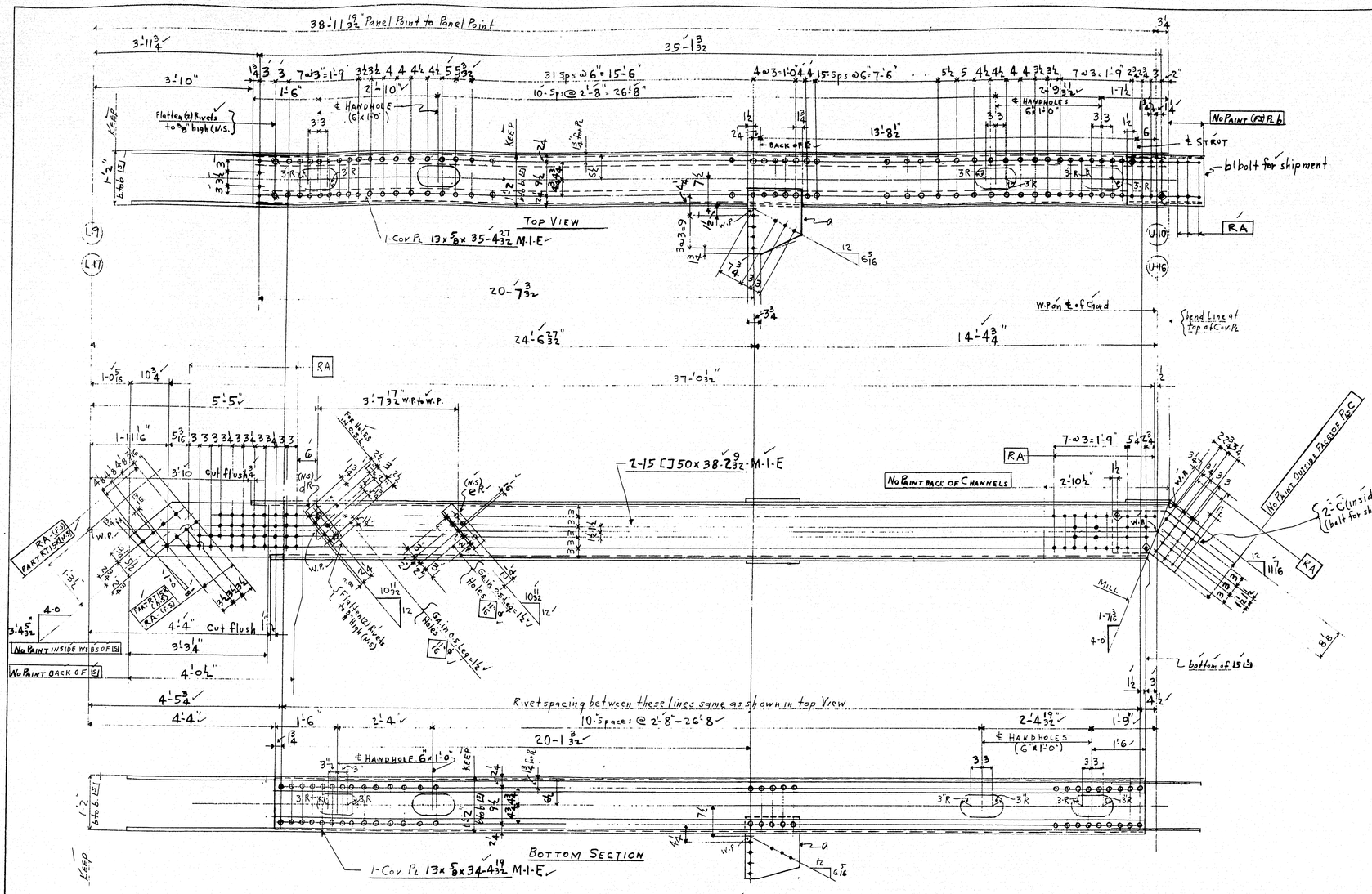
RIVETS ⅞ DIAM. OPEN HOLES 15/16 DIAM. UNLESS OTHERWISE NOTED

REVISIONS

HARRIS STRUCTURAL STEEL CO.
419 FOURTH AVE., N. Y.

DRAW. MADE BY CZ DATE 12-13-49
DRAW. CHECKED BY FT DATE 1-18-50
CONTRACT No. C378 SHEET No. 136

48-148



SHPT No	No	MARK	No	Pc Mk	SIZE	LENGTH	REMARKS	ORD	WEIGHT	
AS SHOWN	6	1	L9-U10 (T1)							
" "	6	1	L17-U16 T2							
OPP HAND	6	1	L9-U10 (T2)							
" "	6	1	L17-U16 (T1)							
				8		15 Lg 50	38-2 3/32	M-1-E	9-418-44	15276. 618
				4	Cov Pls	13 x 5/8	35-4 27/32	M-1-E	9-419-8	3912. 570
				4	Cov. Pls	13 x 5/8	34-4 19/32	M-1-E	Do-9	3800. 570
				8	a	Pls 15 1/4 x 3/8	1-4 3/4		9-423-5	218. 15
				4	b	Pls 13 x 3/8	1-9 5/8	bent	114-5	119. -
				8	c	Pl 17 1/8 x 3/8	2-0 15/16		9-423-5	378. 87
				4	d RL	L 3 1/2 x 2 1/2 x 5/16	0-11	cut from 3 L 3 1/2	9-418-103	26. -
				4	e RL	L 3 1/2 x 3 x 5/16	1-0 1/2		9-422-1	27. -
			1360		Rivets 7/8" ø					490. -
			24		Bolts 7/8" ø x 2 1/2					12. -
								Gross Wt.		24258.
								Wt. Ded.		1860.
								Net Wt.		22398.
								Paint.		90.
								Tot. Wt.		22488.

RT15

MAKE ONE DIAGONAL MARK L9-U10 (T1) AS SHOWN
" ONE " " L17-U16 (T2) " "
" ONE " " L9-U10 (T2) OPP HAND
" ONE " " L17-U16 (T1) " "

WT OF ONE = 5622.

FOR NOTES ON SPECIFICATIONS, MATERIAL, PAINTING, PUNCHING, DRILLING, REAMING, ETC. SEE SHEET 1-B

ALL RIVET HOLES AND OPEN HOLES PUNCHED FULL SIZE UNLESS NOTED RA OR RT

RIVETS 7/8 SHOP — OPEN HOLES 15/16 SHOP — UNLESS OTHERWISE NOTED

UNLESS OTHERWISE NOTED

REVISIONS

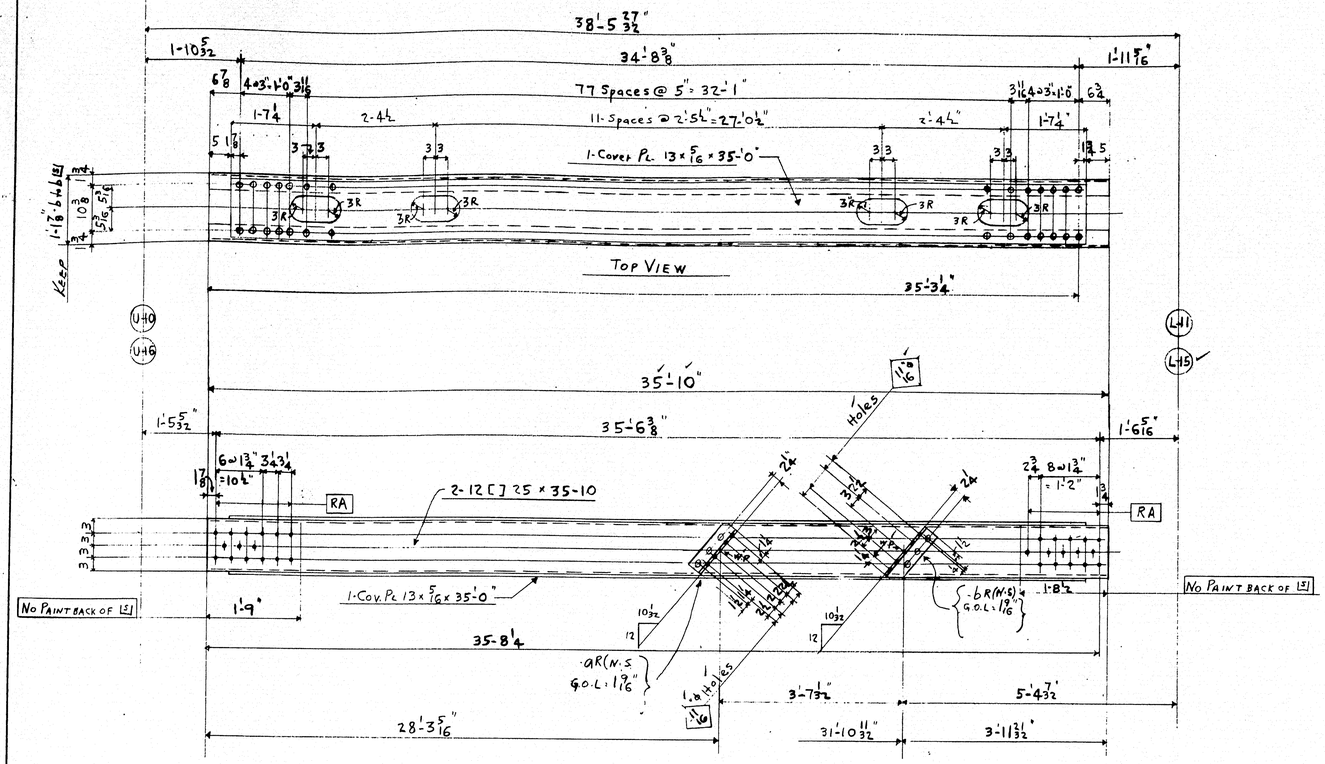
HARRIS STRUCTURAL STEEL CO. 110 FOURTH AVE., N. Y.

DRAWN MADE BY NM DATE 12-12-49
DRAWN CHECKED BY EF DATE 1-26-50
CONTRACT No. C378 SHEET No. 137

ARROWSIC BRIDGE OVER SASANOA RIVER
ARROWSIC - WOOLWICH
FED. AID PROJ. No. S-154 (2)
CONTRACT No. 2

DIAGONALS - L9-U10 (T1) & L9-U10 (T2)
" L17-U16 (T1) & L17-U16 (T2)

48-149



BOTTOM FLANGE SAME AS TOP FLANGE

MAKE ONE	DIAGONAL MARK	U10-L11(T1)	AS SHOWN
" ONE	" "	U16-L15(T2)	" "
" ONE	" "	U10-L11(T2)	OPP HAND
" ONE	" "	U16-L15(T1)	" "

WT. OF ONE = 2760#.

SHPT Nº	READ No	MARK	MADE UP OF No	PCMARK	SIZE	LENGTH	REMARKS	ORD	WEIGHT
AS SHOWN	6	1 U10-L11 (T1)							
" "	6	1 U16-L15 (T2)							
OPP HAND	6	1 U10-L11 (T2)							
" "	6	1 U16-L15 (T1)							
			8		12 [] 25	35-10		9-418-59	7166. -
			8	Cov.	Pl. 13 x 5/16	35-0		9-418-32	3867. 6/3
			4	a'	L 3 1/2 x 3 x 5/16	1-1		9-422-1	29. -
			4	b'	L 3 1/2 x 3 x 5/16	1-2		Do	31. -
			1432		Rivets 7/8"				516. -
							Gross Wt.		11609.
							Wt. Ded.		613.
							Net Wt.		10996.
							Paint		44.
							Tot. Wt.		11040.

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ARROWSIC BRIDGE OVER SASANOA RIVER
ARROWSIC - WOOLWICH
FED. AID PROJ. No. S-154 (2)
CONTRACT No. 2

DIAGONALS. U10-L11(T1) & U10-L11(T2)
" U16-L15(T1) & U16-L15(T2)

FOR NOTES ON SPECIFICATIONS, MATERIAL, PAINTING, PUNCHING, DRILLING, REAMING, ETC. SEE SHEET 1-B
ALL RIVET HOLES AND OPEN HOLES PUNCHED FULL SIZE UNLESS NOTED RA

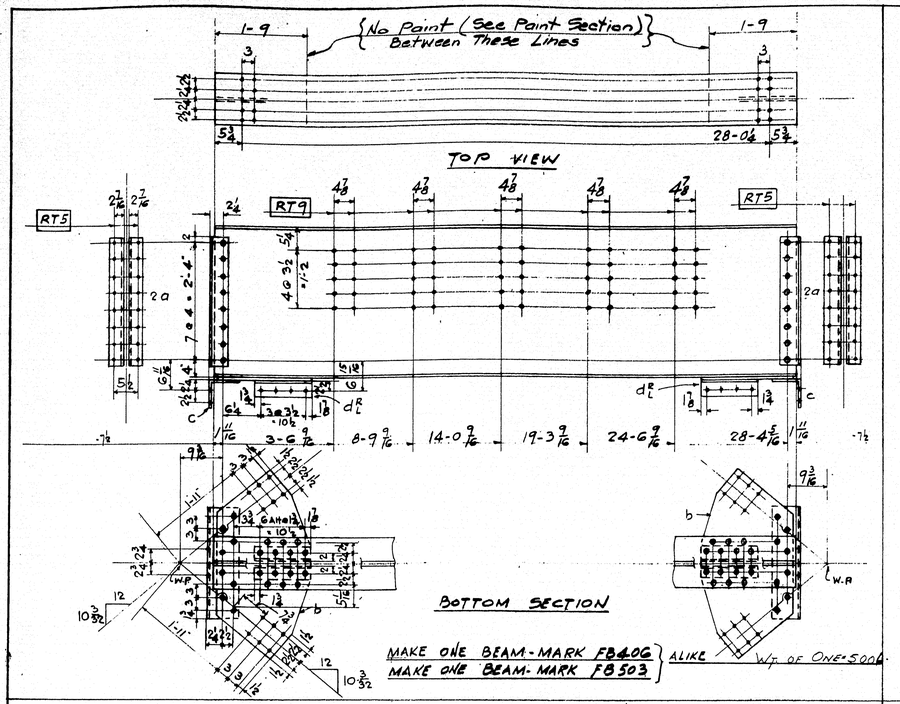
HOLES 7/8 DIAM. OPEN HOLES 15/16 DIAM. UNLESS OTHERWISE NOTED

REVISIONS

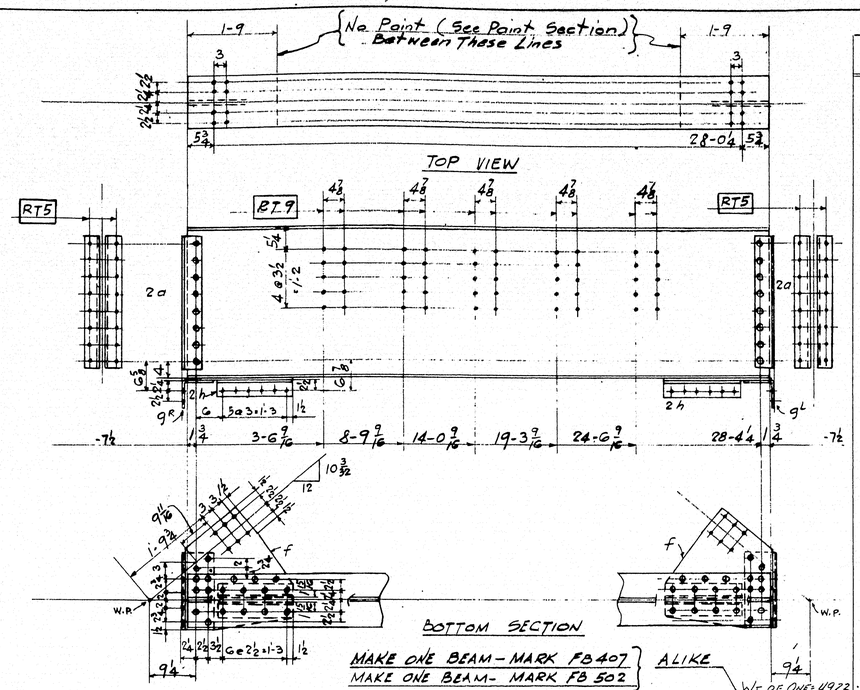
HARRIS STRUCTURAL STEEL CO.
110 FOURTH AVE., N. Y.

DRAWN, TRACED BY NM DATE 12-13-49
CHKD. CHECKED BY ET DATE 1-19-50
CONTRACT No. S378 SHEET No. 13B

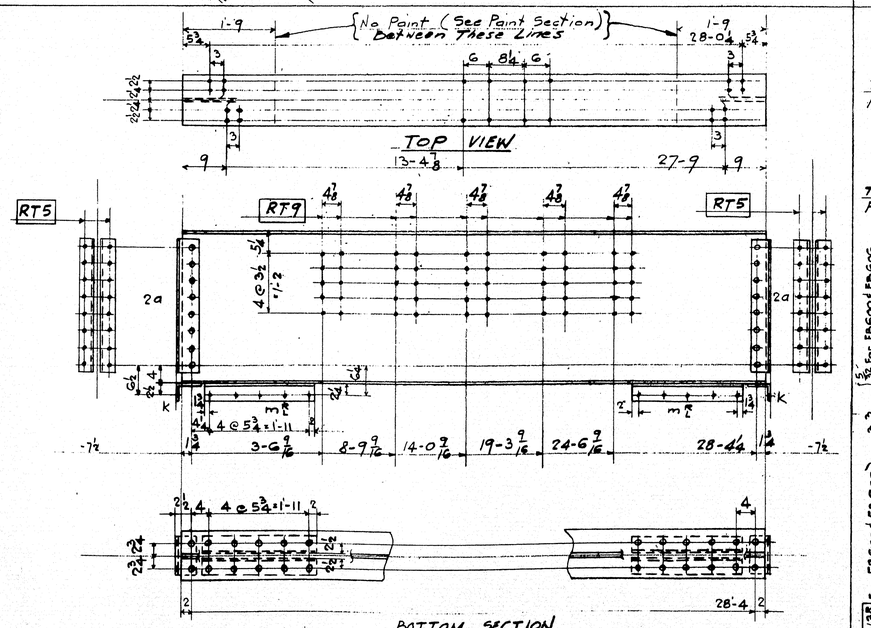
48-150



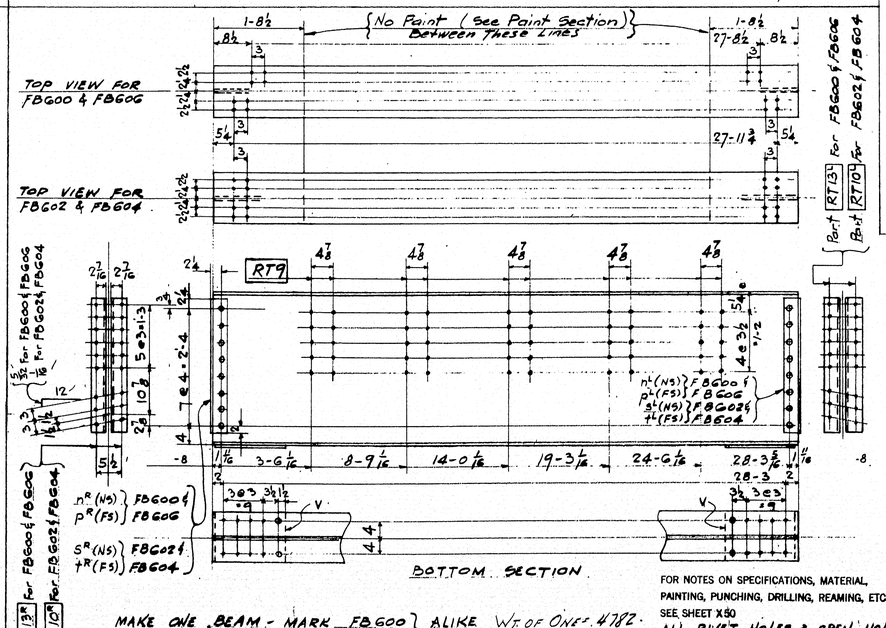
MAKE ONE BEAM-MARK FB406 } ALIKE
MAKE ONE BEAM-MARK FB503 } Wt. OF ONE=5004.



MAKE ONE BEAM-MARK FB407 } ALIKE
MAKE ONE BEAM-MARK FB502 } Wt. OF ONE=4922.



MAKE ONE BEAM-MARK FB408 } ALIKE
MAKE ONE BEAM-MARK FB501 } Wt. OF ONE=4702.



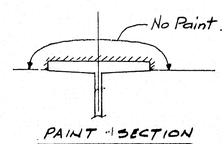
MAKE ONE BEAM-MARK FBG00 } ALIKE
MAKE ONE BEAM-MARK FBG06 } Wt. OF ONE=4782.
MAKE ONE BEAM-MARK FBG02 } ALIKE
MAKE ONE BEAM-MARK FBG04 } Wt. OF ONE=4782.

	REQ'D.		MADE UP OF					
No	MARK	No	PC. MK	SIZE	LGTH.	REMARKS	ORD.	WEIGHT
1	FB406	1		36WF160	28-6		9-418-19	4560
1	FB503	1		36WF160	28-6		Do	4560
		8	a	L-4x3½x7/16	2-8		9-422-6	226
		4	b	PL 20½x7/16	3-9¾		113-7	465
		4	c	L-6x6x7/16	2-1		9-422-7	143
		8	d^R	L-4x3½x7/16	1-2½		119-9	86
		120	Rivs.	⅞				43
1	FB407	1		36WF160	28-6		9-418-19	4560
1	FB502	1		36WF160	28-6		Do	4560
		8	a				9-422-6	226
		4	f	PL 24½x7/16	2-4½		9-423-5	289
		4	g^L	L-6x6x7/16	1-5¼		9-422-7	99
		8	h	L-4x3½x7/16	1-6		119-9	109
		108	Rivs.	⅞				39
1	FB408	1		36WF160	28-6		9-418-19	4560
1	FB501	1		36WF160	28-6		Do	4560
		8	a				9-422-6	226
		4	k	L-4x4x7/16	8½			28
		8	m^R	L-4x3½x7/16	2-2¾		119-9	162
		80	Rivs.	⅞				29
1	FBG00	1		36WF160	28-5		9-418-20	4547
1	FBG06	1		36WF160	28-5			4547
1	FBG02	1		36WF160	28-5			4547
1	FBG04	1		36WF160	28-5			4547
		4	n^R	L-4x3½x7/16	2-8¼	FBG00-FBG06	9-422-6	114
		4	p^R	Do	2-8¼	Do		114
		4	s^L	Do	2-8¼	FBG02-FBG04		114
		4	t^L	Do	2-8¼	Do		114
		8	V	PL 12x⅜	1-4		9-423-9	380
		80	Rivs.	⅞				29

Part RT13 for FBG00 & FBG06
Part RT10 for FBG02 & FBG04

RT5 - RT9 - RT10L - RT13R

GROSS WT	48583
WT. DED	189
NET WT	48394
PAINT	194
TOTAL WT	48588



FLOOR BEAMS
SPANS 3, 4 & 5

ARROWSIC BRIDGE OVER SASANOA RIVER
ARROWSIC - WOOLWICH
FED. AID PROJ. No. S-154 (2)
CONTRACT No. 2

FOR NOTES ON SPECIFICATIONS, MATERIAL, PAINTING, PUNCHING, DRILLING, REAMING, ETC. SEE SHEET X50
ALL RIVET HOLES & OPEN HOLES PUNCHED FULL SIZE UNLESS NOTED RT

RIVETS ⅞ DIAM. OPEN HOLES 15/16 DIAM. UNLESS OTHERWISE NOTED

REVISIONS

HARRIS STRUCTURAL STEEL CO.
619 FOURTH AVE., N. Y.

DRAW. MADE BY LK DATE 12-8-49
DRAW. CHECKED BY WP DATE 1-24-50
CONTRACT No. C378 SHEET NO. 139

48-151