

FORM 0-58
SKETCH, SHOP AND SHIPPING BILL
AMERICAN BRIDGE COMPANY

LINE NO.	Q	NO. POS.	MARK	MATERIAL		CALCULATED WEIGHT FOR ONE MEMBER	ORDERED		ITEM	SHIPMENTS
				SHAPE	LENGTH		NO. POS.	LENGTH		
1										
2										
3				50 Bends 3/32" Welding Electrodes	50'					
4				Class E-6010						
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62-206

Welding Electrodes
PAINT
CONTACT SURFACES

NAME OF STRUCTURE
Bangor-Brewer Bridge - Bangor, Me.

IN CHARGE OF MARKS
ORDER No. Q4149
SHEET No. C103

Div. 1, 2, 3, 4

FORM 0-59
TURNED BOLTS
AMERICAN BRIDGE COMPANY

5 TO IMPRESSED SLOT

SPECIFY UNDER DI
LDF - LIGHT DRIVE FIT
DF - DRIVE FIT
OF - ORDINARY FIT
(HOLE DIAMETER MINUS .001")

STANDARD WASHERS

TYPE X V P

DIMENSION A GRID + 1/64" GRID - 1/64" OR 1/8"

FOR AMBRIDGE FABRICATION FOR ORDINARY FIT TURNED BOLTS REDUCE DIMENSION A 1/8"

NO. REQD.	TYPE OF REAMED HOLE	SIZE OF REAMED HOLE	DI	DL	A	B	L	GRID	DRIVE FIT	NO. OF BOLTS EACH BOLT	NO. OF WASHERS EACH BOLT	LOCATION	SHEET NO. MACHINE STRUCK	WEIGHT TOTAL	SHIPMENTS
8	Hex	1 1/2"	DF	1 1/2"	3 1/2"	1 1/2"	4 3/4"	3 3/8"	Hex	1	X	1-24 x 3/8"	F1 to TP11		16
8	Hex	1 1/2"	DF	1 1/2"	3 1/2"	1 1/2"	4 3/4"	3 3/8"	Hex	1	X	1-24 x 3/8"	F1 to TP11		16
16	Hex	1 1/2"	DF	1 1/2"	3 1/2"	1 1/2"	5 1/4"	3 3/8"	Hex	1	X	1-24 x 3/8"	F2 to TP12		32
32 Washers 2 1/2" x 3/8" x 1 1/2"															

TURNED BOLTS

NAME OF STRUCTURE
Bangor-Brewer Bridge - Bangor, Me.

IN CHARGE OF MARKS
ORDER No. Q4149
SHEET No. C102

Div. 1

FORM 0-73
FIELD RIVETS AND BOLTS
AMERICAN BRIDGE COMPANY

LINE NO.	ACTUAL NUMBER REQD.	NO. SHIPPED	DIAM.	RIVETS		BOLTS					Dardet Grip No.	CALCULATED WEIGHT TOTAL	SHIPMENTS
				LENGTH UNDER HEAD	HEAD	NUT	WASHER	TYPE OF BOLT	GRIP				
1	12	20	3/4"	2 1/4"									
2	140	172	3/8"	3 1/2"									
3	612	714	3/8"	2 1/4"									
4	50	65	3/8"	4 1/4"									
5	35	50	3/8"	2 3/4"									
6	25	40	3/8"	3 3/8"									
7	9	14	3/8"	4 3/8"									
8	71	92	3/8"	3 3/4"									
9	90	114	3/8"	2 3/8"									
10	314	372	3/8"	2 3/8"									
11	15	22	3/8"	3 3/8"									
12	39	55	3/8"	3 3/4"									
13	3	6	3/8"	3									
14	11	13	3/8"	2 3/8"									
15	54	70	3/8"	2 1/2"									
16	19	30	3/8"	2 3/8"									
17	4	7	3/8"	4									
18	4	7	3/8"	4 1/2"									
19													
20	25	31	3/4"										
21	2	4	3/4"		2 1/4" Hex	Hex	Ordinary	1 1/2"					
22	1	3	3/4"		2 1/4" Hex	Hex	Ordinary	1 1/2"					
23					2 1/4" Hex	Hex	Ordinary	1 1/2"					
24	18	23	3/8"		2 3/4" Button Hex		Dardet	1 1/2"	#5	P.L. 50120			
25	91	100	3/8"		2 3/8" Button Hex		Dardet	1 1/2"	#6	P.L. 50120			
26	72	80	3/8"		2 3/8" Button Hex		Dardet	1 1/2"	#7	P.L. 50120			
27	8	12	3/8"		3 3/4" Button Hex		Dardet	1 1/2"	#9	P.L. 50120			
28							Dardet	1 1/2"					
29													
30	180 Washers 2 1/2" x 3/8" thick - 1 1/2" hole												
31	380 Washers 2 1/2" x 3/8" thick - 1 1/2" hole												
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Field Rivets and Bolts

NAME OF STRUCTURE
Bangor-Brewer Bridge - Bangor, Me.

IN CHARGE OF MARKS
ORDER No. Q4149
SHEET No. C101

Div. 1

0 1 2 3 4 5 INCHES

LINE NO.	ACTUAL NUMBER REQD.	NO. SHIPPED	DIAM.	RIVETS		BOLTS				GRIP	Dardelot Grip No.	SAGGATED WEIGHT TOTAL	SHIPMENTS
						LENGTH UNDER HEAD	HEAD	NUT	WASH-ER				
1	90	114	7/8	2 1/2						5/8		63	
2	22	36	7/8	3 1/2						1 1/2		29	
3	76	98	7/8	4 1/4						2 1/2		89	
4	26	40	7/8	5 3/8						3 1/2		44	
5	4	7	7/8	5 1/2						3 1/2		8	
6	32	46	7/8	3 3/4						1 1/2		38	
7	80	102	7/8	4 3/8						2 5/8		95	
8	14	22	7/8	5						3 1/2		23	
9	40	56	7/8	3 1/4						1 1/2		41	
10	48	66	7/8	3 1/2						1 1/2		48	
11	20	30	7/8	4 1/8						2 3/4		27	
12	56	74	7/8	4						2 1/2		64	
13	368	434	7/8	2 5/8						1 1/8		278	
14	10	15	7/8	5 1/4						3 1/2		16	
15	24	38	7/8	4 3/8						2 1/2		37	
16	600	700	7/8	2 1/4						2 1/2		399	
17	32	46	7/8	4 3/8						2 1/2		47	
18	40	56	7/8	3 3/8						1 1/2		43	
19	60	80	7/8	3 1/2						1 1/2		63	
20	2	4	7/8	5 1/8						3 1/2		4	
21	112	138	7/8	2 3/8						7/8		81	
22	52	70	7/8	2 1/2						1		43	
23	38	54	7/8	3 3/8						2 1/2		46	
24	8	13	7/8	2 3/4						1 1/4		9	
25													
26	20	25	3/4			2 1/4	Hex	Hex	Ordinary	1 1/4		14	
27	20	25	3/4			2 1/2	Hex	Hex	Ordinary	1 1/2		15	
28													
29	64	72	7/8			2 5/8	Button	Hex	Dardelot Rivet Bolt	1 1/2	#6 Bx L-50924	74	
30	192	202	7/8			2 1/2	Button	Hex	Dardelot Rivet Bolt	1 1/2	#7 Bx L-60894	214	
31	20	25	7/8			3 1/2	Button	Hex	Dardelot Rivet Bolt	1 1/2	#9 Bx L-50924	78	
32	4	6	7/8			3 3/8	Button	Hex	Dardelot Rivet Bolt	2 1/2	#10	7	
33	4	6	7/8			3 1/2	Button	Hex	Dardelot Rivet Bolt	2 1/2	#11	7	
34	4	6	7/8			3 3/4	Button	Hex	Dardelot Rivet Bolt	2 1/2	#12	7	
35													
36													
37	317	Washers 2 1/2"	4" thick - 1 1/2" hole									89	
38	634	Washers 2 1/2"	4" thick - 1 1/2" hole									89	
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Field Rivets & Bolts				RIVETS	HOLDS	DRAWINGS	NAME	DATE	32-51	DRAWINGS	IN CHARGE OF	Div. 4
PRINT	X											

[illegible][illegible]

ERECTORS LIST FIELD RIVETS AND BOLTS ERICAN BRID.

LINE NO.	NO. PCS.	DIAM.	RIVETS	BOLTS	GRIP	THICKNESS OF MATERIAL CONNECTED	LOCATION
			LENGTH UNDER HEAD	HEAD NUT WASH. TYPE OF BOLT			
1	8	3/8	3 1/2			1 3/4	B1, B2 to D1, D2
2	12	3/4	2 1/4			1 3/4	B1, B2 to D2, D3A
3	28	7/8	2 1/4			1 3/4	B1, B2 to D4, D4A
4	32	7/8	2 1/4			1 3/4	B1, B2 to D5
5	128	7/8	2 1/4			1 3/4	B3 to D5
6	112	7/8	2 1/4			1 3/4	B3 to D4, D4A
7	28	7/8	3 1/2			1 3/4	F1
8	15	7/8	4 1/4			2 1/2	F1
9	11	7/8	2 3/4			1 1/4	F1
10	16	7/8	2 3/4			1 1/4	F1 to B14, B15
11	14	7/8	3 1/2			1 3/4	F1 to B4, B9
12	28	7/8	3 1/2			1 3/4	F1 to B5, B6, B10, B11
13	14	7/8	3 1/2			1 1/4	F1 to B7, B12
14	9	7/8	4 3/8			2 3/4	F1 to B8
15	9	7/8	4 1/4			2 1/2	F1 to B13
16	6	7/8	3 1/4			1 3/8	F1 to B17
17	6	7/8	3 1/2			1 3/4	F1 to B18
18							
19	2	3/4		2 1/4 Hex Hex	Ord. Bolt	1 3/8	F1 to F85
20	8	DF		4 3/4 Hex Hex	Turn Bolt	3 3/4	F1 to TP11
21	8	DF		4 3/4 Hex Hex	Turn Bolt	3 3/4	F1 to TP11
22	12	7/8	2 1/8			5/8	B4 to M18, M19
23	8	7/8	3 1/4			1 3/8	B4 to M9, M11
24	36	7/8	2 1/8			7/8	B4 to M11, D9
25	36	7/8	2 1/4			3/4	B4 to M9, D13
26	40	7/8	2 3/8			7/8	B5, B6 to D7, D8, D9
27	32	7/8	2 1/4			3/4	B5, B6 to D11, D12, D13
28	20	7/8	2 3/8			7/8	B7 to D4, D7
29	16	7/8	2 1/4			3/4	B7 to D10, D11
30	6	7/8	2 1/8			5/8	B8 to M21
31	4	7/8	3 1/2			1 1/2	B8 to M1
32	4	7/8	3 3/8			1 3/8	B8 to M2
33	36	7/8	2 3/8			7/8	B8 to M1, D6
34	36	7/8	2 3/8			7/8	B8 to M2, D10
35	39	7/8	3 3/4			1 1/2	F2
36	26	7/8	4 1/4			2 1/2	F2
37	3	7/8	3			1 1/4	F2
38	4	3/4		2 1/4 Hex Hex	Ord. Bolt	1 3/8	F2 to F85, FB11, FB12
39	16	DF		5 1/4 Hex Hex	Turn Bolt	3 3/4	F2 to TP12
40	49	7/8	3 1/2			1 3/4	F2 to B9, B10, B21, B22, B11, B13
41	7	7/8	3 3/8			1 1/2	F2 to B24
42	7	7/8	3 1/4			1 3/8	F2 to B23
43	7	7/8	3 3/8			1 1/2	F2 to B2
44	7	7/8	3 1/2			1 3/4	F2 to B18
45	4	7/8	2 1/8			1 3/8	F2 to B20

0794 PENCIL/TEX
SKETCH SHEET
AMERICAN BRIDGE COMPANY
UNITED STATES STEEL CORPORATION SUBSIDIARY

RIVETS
Dia. _____
Hd. _____ Nut _____

BOLTS
Dia. _____
Hd. _____ Nut _____

R. 8 x 16 x 1 1/4 - M46
R. 8 x 16 x 1 1/4 - M180
R. 8 x 16 x 1 1/4 - M47
R. 3 1/2 x 16 x 8 - M48
R. 3 1/2 x 6 x 8 - M49
R. 3 1/2 x 4 x 8 - M50
R. 8 x 16 x 1 1/4 - M181
R. 3 1/2 x 6 x 8 - M49
R. 3 1/2 x 4 x 8 - M50

NO. PCS.	MATERIAL	LENGTH	MARK	TOTAL CALCULATED WEIGHT	ORDERED	NO. PCS.	MATERIAL	LENGTH	MARK	CALCULATED WEIGHT FOR ONE BRIDGE PIECE	ORDERED
	SHAPE	FT. INCH.			ITEM		SHAPE	FT. INCH.			ITEM
12	R.	8 1/6	1 1/4	M46	38 1/2	39	whole	S			
18	R.	8 1/6	1 3/8	M47	57 1/2	38	whole	S			
70	R.	3 1/2	8	M48	24 1/2	35	whole	S			
70	R.	3 1/2	8	M49	67 1/2	70	whole	S			
70	R.	3 1/2	8	M50	134 1/2	135	whole	S			
58	R.	8 1/6	1 1/4	M180	184 1/2	187	whole	S			
95	R.	8 1/6	1 3/8	M181	200 1/2	202 1/2	whole	S			

SHIMS
PAINT Yes
CONTACT SURFACES

REVISIONS
B
X 2-8-54
Advance Bill Page 127, 204, 304 & 404

NAME OF STRUCTURE
STATE OF MAINE, STATE HIGHWAY COMMISSION, BANGOR-BREWER BRIDGE OVER PENOBSCOT RIVER, BANGOR, ME.

ORDER No. Q4149
SHEET No. F102

0794 PENCIL/TEX
SKETCH SHEET
AMERICAN BRIDGE COMPANY
UNITED STATES STEEL CORPORATION SUBSIDIARY

RIVETS
Dia. _____
Hd. _____ Nut _____

BOLTS
Dia. _____
Hd. _____ Nut _____

M12 & M13 6 1/2
M14 & M15 7 1/2
M16 & M17 8
M12 & M13 1 1/2 3 1/2 1 1/2
M14 & M15 1 1/2 4 1 1/2
M16 & M17 1 1/2 5 1 1/2

NO. PCS.	MATERIAL	LENGTH	MARK	TOTAL CALCULATED WEIGHT	ORDERED	NO. PCS.	MATERIAL	LENGTH	MARK	CALCULATED WEIGHT FOR ONE BRIDGE PIECE	ORDERED
	SHAPE	FT. INCH.			ITEM		SHAPE	FT. INCH.			ITEM
20	R.	7 1/4	6 1/2	M12	3 1/2	30	0	M618			
40	R.	7 1/4	6 1/2	M13	2			S			
151	R.	7 1/4	7 1/2	M14	4 1/2	30	0	M618			
302	R.	7 1/4	7 1/2	M15	2 1/2			S			
18	R.	7 1/4	8	M16	4 1/2	30	0	M618			
36	R.	7 1/4	8	M17	2 1/2			S			

SHIMS
PAINT Yes
CONTACT SURFACES

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ERECTORS LIST FIELD RIVETS AND BOLTS AMERICAN BRIDGE

LINE NO.	NO. PCS.	DIAM.	RIVETS	BOLTS	GRIP	THICKNESS OF MATERIAL CONNECTED	LOCATION
1	24	7/8	26		5/8	5/16	B26 to M9, 92, 93, 94, 95
2	40	7/8	53		3/4	1/4	B26 to B31
3	40	7/8	53		3/4	1/4	B27, B28 to B32, B33 (Top)
4	8	7/8	64		4/8	1/4	B26 to B31 (Top)
5	16	7/8	64		4/8	1/4	B27, B28 to B32, B33 (Top)
6	16	7/8	42		2 1/2	1/4	B26 to B31
7	8	7/8	64		2 1/2	1/4	B27, B28 to B32, B33
8	32	7/8	64		4 1/2	1/4	B26 to B31 (Bottom)
9	24	7/8	6		4 1/2	1/4	B27, B28 to B32, B33 (Bottom)
10	20	7/8	58		4	1/4	B27, B28 to B32, B33 (Both)
11	40	7/8	32		1 1/2	1/4	B26 to B31 (Web)
12	10	7/8	44		1 1/2	1/4	B27, B28 to B32, B33 (Web)
13	10	7/8	44		2 1/2	1/4	B26 to B31 (Web)
14	20	7/8	44		2 1/2	1/4	do
15	20	7/8	44		2 1/2	1/4	B27, B28 to B32, B33 (Web)
16	20	7/8	44		2 1/2	1/4	do
17	36	7/8	4		2 1/2	1/4	B26 to D26, M30
18	40	7/8	24		3 1/2	1/4	B27, B28 to D24, D25, D26
19	36	7/8	24		1 1/2	1/4	B26 to D19, M44
20	72	7/8	24		3 1/2	1/4	B26 to D13, D17, M29, M43
21	36	7/8	24		3 1/2	1/4	B26 to D69, M28
22	40	7/8	24		1 1/2	1/4	B27, B28 to D18, D19, D19A
23	40	7/8	24		3 1/2	1/4	B27, B28 to D8, D69
24	64	7/8	24		3 1/2	1/4	B27, B28 to D12, D13, D17, D22, D23
25	12	7/8	28		5 1/2	1/4	B30 to M103, 104, 105, 106
26	14	7/8	28		5 1/2	1/4	B30 to M36
27	36	7/8	28		3	1/4	B30 to D20, M34
28	18	7/8	24		3	1/4	B30 to M35
29	18	7/8	22		1	5/8	B30 to D21
30	24	7/8	28		1	5/8	B31 to M92, M96-M102
31	8	7/8	64		4 1/2	1/4	B31 to M31
32	10	7/8	48		2 1/2	1/4	B31
33	8	7/8	64		4 1/2	1/4	B31 to D32
34	36	7/8	24		3 1/2	1/4	B31 to D29, M45
35	36	7/8	24		1 1/2	1/4	B31 to D32, M31
36	36	7/8	24		1 1/2	1/4	B31 to D35, M32
37	36	7/8	24		3 1/2	1/4	B31 to D38, M33
38	12	7/8	28		5 1/2	1/4	B29 to M107-110
39	40	7/8	53		3 1/2	1/4	B29 to B34
40	16	7/8	44		2 1/2	1/4	do
41	8	7/8	64		4 1/2	1/4	do (Top)
42	8	7/8	64		4 1/2	1/4	do (Bottom)
43	20	7/8	32		1 1/2	1/4	do (Web)
44	10	7/8	44		2 1/2	1/4	do (Web)
45	2	7/8	44		2 1/2	1/4	do (Web)
46	2	7/8	44		1 1/2	1/4	B29 to D24, M38

ERECTORS LIST FIELD RIVETS AND BOLTS AMERICAN BRIDGE

LINE NO.	NO. PCS.	DIAM.	RIVETS	BOLTS	GRIP	THICKNESS OF MATERIAL CONNECTED	LOCATION
1	11	7/8		#6	1/8	5/16	F1 to B16
2	18	7/8		#5	1/8	5/16	F1 to M3
3	72	7/8		#7	1 1/4	1/2	ED4 to Diaphragms
4	4	7/8		#9	2	1/2	ED4 to D6
5	4	7/8		#9	2	1/2	ED4 to D9
6	80	7/8		#6	1 1/8	1/2	ED3 to D4A
7							
8							
9	160	Washers	2 1/2" x 4" Thick - 1/4" Hole				For use under nut of Dashed Rivet Bolt
10	320	Washers	2 1/2" x 4" Thick - 1/4" Hole				As required to build up required grip as noted on lines 3, 4, 5, & 6.
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ERECTORS LIST FIELD RIVETS AND BOLTS AMERICAN BRIDGE

LINE NO.	NO. PCS.	DIAM.	RIVETS	BOLTS	GRIP	THICKNESS OF MATERIAL CONNECTED	LOCATION
1	12	7/8	28		5/8	5/16	B9 to M19, M18
2	4	7/8	34		1 1/8	1/4	B9 to M9
3	36	7/8	24		3 1/2	1/4	B9 to M9, D13
4	48	7/8	24		3 1/2	1/4	B10, B11, B13 to D14, D12, D13, D15
5	6	7/8	22		5/8	5/16	B13 to B19
6	16	7/8	24		5/8	5/16	B12 to D11
7	10	7/8	22		5/8	5/16	B14 to B16
8	6	7/8	28		5/8	5/16	B15 to B16
9	9	7/8	28		1 1/8	1/4	B16 to M2
10	7	7/8	28		1 1/8	1/4	B16 to M3
11	6	7/8	34		1 1/8	1/4	B17 to B19
12	16	7/8	24		3 1/2	1/4	B17 to D14, D15
13	6	7/8	28		1 1/8	1/4	B19
14	6	7/8	22		5/8	5/16	B19 to B18
15	12	7/8	28		5/8	5/16	B18 to M22, 23, 24, 25
16	4	7/8	4		2 1/4	1/4	B18 to M4
17	36	7/8	24		3 1/2	1/4	B18 to M4, D14
18	4	7/8	28		1 1/8	1/4	B20 to M5
19	6	7/8	28		5/8	5/16	B20 to M26, M27
20	12	7/8	28		5/8	5/16	B21 to M18, M20
21	8	7/8	34		1 1/8	1/4	B21 to M7, M8
22	36	7/8	28		3 1/2	1/4	B21 to M7, D9
23	36	7/8	24		3 1/2	1/4	B21 to M8, D17
24	40	7/8	24		3 1/2	1/4	B22, B23 to D14, D12, D15
25	8	7/8	28		1 1/8	1/4	B23 to D16
26	60	7/8	28		3	1/4	B22, B23 to D6A, D7, B, 9
27	6	7/8	28		5/8	5/16	B24 to M89, M90
28	4	7/8	38		1 1/4	1/4	B24 to M6
29	4	7/8	48		2 1/4	1/4	B24 to M5
30	36	7/8	28		3 1/2	1/4	B24 to M6, D6A
31	20	7/8	34		1 1/8	1/4	B24 to M5, D16
32	12	7/8	28		5/8	5/16	FBI, FB2 to D1, D2
33	12	7/8	28		5/8	5/16	FBI, FB2 to D3, D3A
34	2	7/8	21		1	3/4	D6 to M1
35	2	7/8	21		1	3/4	D6A to M6
36	4	7/8	21		1	3/4	D9 to M7, M11
37	8	7/8	24		1 1/4	1/4	D10 to M2
38	18	7/8	22		1	3/4	D13, D17 to M8, M19
39	12	7/8	34		1 1/8	1/4	D16 to M5
40	6	7/8	25		1	3/4	D14 to M4
41	7	3/4		24 Hex Hex	Ord.	1 1/4	FBI, FB3 to M1, M11, M2, M9
42	3	3/4		24 Hex Hex	Ord.	1 1/4	FBI, FB3 to M7, M8
43	6	3/4		24 Hex Hex	Ord.	1 1/4	FBI, FB3 to M8, M9
44	1	3/4		24 Hex Hex	Ord.	1 1/4	FBI, FB3 to M3
45	2	3/4		24 Hex Hex	Ord.	1 1/4	FBI, FB3 to M3, M4
46	3	3/4		24 Hex Hex	Ord.	1 1/4	M5 to FBI, FB13, FBI1 to M4

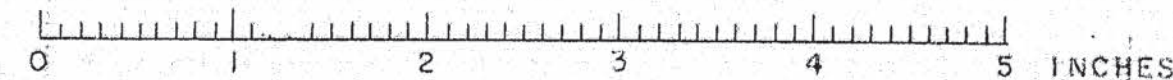
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DIVISION

UNITED STATES

STEEL COMPANY

LINE NO.	NO. PCS.	DIAM.	RIVETS		BOLTS				GRIP	THICKNESS OF MATERIAL CONNECTED	LOCATION
					LENGTH UNDER HEAD	HEAD	NUT	WASHER			
1	24	3/8	2 1/2						5/8	3/8	B35 to M119 - M126
2	32	3/8	4 1/2						2 1/2	1 1/2	B35, B38 to B39, B42
3	80	3/8	5 3/4						3 1/2	1 1/2	B35, B38 to B39, B42
4	8	3/8	7						4 3/8	3/8	B35, B38 to B39, B42 (top)
5	8	3/8	7						4 1/2	3/8	B35, B38 to B39, B42 (top)
6	16	3/8	6 3/4						4 1/2	3/8	B35, B38 to B39, B42 (web)
7	40	3/8	3 3/4						1 1/2	1 1/2	B35, B38 to B39, B42 (web)
8	40	3/8	4 1/2						2 1/2	1 1/2	B35 to M64, D42 B38 to M55, D73
9	72	3/8	2 1/2						1 1/2	3/8	B35 to M63, D47 B38 to M54, D45
10	72	3/8	2 1/2						1 3/8	3/8	B35, B38
11	20	3/8	4 3/8						2 1/2	3/8	B35 to M 62 B38 to M53
12	4	3/8	6 1/4						4 1/2	3/8	B35 to M62 B38 to M53
13	4	3/8	6 1/4						4 3/8	3/8	B35 to D65 B38 to D64
14	8	3/8	5 1/2						3 1/2	3/8	B35 to M62, D65 B38 to M53, D64
15	72	3/8	2 1/2						1 3/8	3/8	B35 to M60, M61, D41, D78
16	72	3/8	2 1/4						3 1/2	3/8	B38 to M133 - M140
17	24	3/8	2 1/2						5 1/2	3/8	B38 to M51, M52, D39, D77
18	72	3/8	2 1/4						2 1/2	1 1/2	B35, B37 to B40, B41
19	32	3/8	4 1/2						3 1/2	1 1/2	do
20	64	3/8	5 3/4						4 5/8	1 1/2	B36, B37 to M175
21	2	3/8	6 3/4						4 1/2	1 1/2	do
22	6	3/8	7						4 3/8	1 1/2	do
23	6	3/8	7						4 1/2	1 1/2	do
24	2	3/8	7 1/4						4 1/2	1 1/2	B34, B37 to D42, 71, 73
25	32	3/8	6 3/4						1 1/2	1 1/2	B36, B37 to B40, B41 (web)
26	60	3/8	3 3/4						2 1/2	3/8	do
27	20	3/8	4 1/2						3 1/2	3/8	B36, B37 to D42, 71, 73, 44, 65, 70
28	80	3/8	2 1/4						4 5/8	1 1/2	B36, B37 to M177
29	2	3/8	6 3/4						4 3/4	1 1/2	do
30	6	3/8	7						4 3/8	1 1/2	do
31	6	3/8	7						4 1/2	1 1/2	do
32	2	3/8	7 1/4						4 3/8	1 1/2	B36, B37 to D44, 65, 70
33	32	3/8	7						1 3/8	1 3/8	B36, B37 to D45, 66, 47
34	40	3/8	2 1/2						3 1/2	3/8	B36, B37 to D39, 40, 41, 42, 72, 78
35	64	3/8	2 1/4						5 1/2	3/8	B39 to M127 - M132
36	18	3/8	2 1/2						4 1/2	3/8	B39 to M166
37	4	3/8	7						4 3/8	1 1/2	do
38	4	3/8	7						4 3/8	1 1/2	B39 to D 44
39	8	3/8	7						2 1/2	3/8	B39
40	10	3/8	4 3/8						1 1/2	3/8	B39 to M66, D44
41	36	3/8	2 5/8						1 1/2	3/8	B39 to M67, D50

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ERECTORS LIST
FIELD RIVETS AND BOLTS
AMERICAN BRIDGE

LINE NO.	NO. PCS.	DIAM.	RIVETS	BOLTS	GRIP	THICKNESS OF MATERIAL CONNECTED	LOCATION
			LENGTH UNDER HEAD	HEAD NUT WASH-ER TYPE OF BOLT			
1	21	3/8	2 1/2			5/8 x 7/8	B43 to M48-M154
2	16	3/8	3 3/8			1 1/2 x 1 1/8	B43 to B47 (top) B46 to B50 (top)
3	40	3/8	4 1/4			2 1/2 x 1 1/8	do do
4	4	3/8	5 3/8			3 1/2 x 1 1/8	B43 to M84 B46 to M74
5	4	3/8	5 1/2			3 1/2 x 1 1/8	do do
6	16	3/8	3 3/4			1 1/2 x 1 1/8	B43 to B47 (bottom) B46 to B50 (bottom)
7	40	3/8	4 3/8			2 1/2 x 1 1/8	do do
8	8	3/8	5			3 1/2 x 1 1/8	B43 to D83 B46 to D82
9	40	3/8	3 3/4			1 1/2 x 1 1/8	B43 to B47 (web) B46 to B50 (web)
10	40	3/8	3 3/8			1 1/2 x 1 1/8	do do
11	20	3/8	4 1/8			2 1/2 x 1 1/8	do do
12	20	3/8	4			2 1/2 x 1 1/8	do do
13	72	3/8	2 5/8			1 1/2 x 3/8	B43 to M84, D83 B46 to M74, D82
14	20	3/8	4			2 1/2 x 3/8	B43 B46
15	72	3/8	2 5/8			1 1/2 x 3/8	B43 to M71, D68 B46 to M71, D66
16	4	3/8	5 1/4			3 1/2 x 1 1/8	B43 to M81 B46 to M71
17	4	3/8	5 1/4			3 1/2 x 1 1/8	do do
18	8	3/8	4 5/8			2 1/2 x 1 1/8	B43 to D68 B46 to D66
19	72	3/8	2 5/8			1 1/2 x 3/8	B43 to M82, D63 B46 to M72, D62
20	108	3/8	2 1/4			3/4 x 3/8	B43 to M79, 80, 83, D80, 76, 61
21	21	3/8	2 1/8			5/8 x 3/8	B46 to M163-M169
22	108	3/8	2 1/4			3/4 x 3/8	B46 to M69, 70, 73, D52, 75, 59
23	16	3/8	3 3/4			1 1/2 x 1 1/8	B44, B45 to B48, B49 (top)
24	40	3/8	4 3/8			2 1/2 x 1 1/8	do
25	2	3/8	5 1/4			3 1/2 x 1 1/8	B44, B45 to M179 (Field Sp.)
26	4	3/8	5 3/8			3 1/2 x 1 1/8	do
27	2	3/8	5 3/8			3 1/2 x 1 1/8	do
28	16	3/8	4			2 1/2 x 1 1/8	B44, B45 to B48, B49 (bottom)
29	32	3/8	4 1/2			2 1/2 x 1 1/8	do
30	16	3/8	5 3/8			3 1/2 x 1 1/8	B44, B45 to D67, 82, 83
31	40	3/8	3 3/8			1 1/2 x 3/8	B44, B45 to B48, B49 (web)
32	60	3/8	3 1/2			1 1/2 x 3/8	do
33	20	3/8	4 1/4			2 1/2 x 1 1/8	do
34	40	3/8	2 1/4			3/4 x 3/8	B44, B45 to D67, 82, 83
35	40	3/8	2 1/4			3/4 x 3/8	B44, B45 to D66, 67, 68
36	2	3/8	5			3 1/2 x 1 1/8	B44, B45 to M179 (Shop Sp.)
37	4	3/8	5			3 1/2 x 1 1/8	do
38	2	3/8	5 1/8			3 1/2 x 1 1/8	do
39	16	3/8	4 3/8			2 1/2 x 1 1/8	B44, B45 to D66, 67, 68
40	40	3/8	2 5/8			1 1/2 x 3/8	B44, B45 to D63, 63, 81
41	96	3/8	2 1/4			3/4 x 3/8	B44, B45 to D52, 79, 80, 79, 75, 76, 57, 69, 61
42	40	3/8	2 5/8			1 1/2 x 3/8	B46, B49 to D53, 54, 55
43	40	3/8	2 5/8			1 1/2 x 3/8	B48, B49 to D54, 57, 58
44	64	3/8	2 1/4			3/4 x 3/8	B48, B49 to D74, 75, 76, 59, 60, 61
45	24	3/8	2 1/8			5/8 x 3/8	B47 to M159, 156, 157, 159, 161
46	24	3/8	2 1/8			5/8 x 3/8	B50 to M170, 171, 172, 158, 174

ERECTORS LIST
FIELD RIVETS AND BOLTS
AMERICAN BRIDGE

LINE NO.	NO. PCS.	DIAM.	RIVETS	BOLTS	GRIP	THICKNESS OF MATERIAL CONNECTED	LOCATION
			LENGTH UNDER HEAD	HEAD NUT WASH-ER TYPE OF BOLT			
1	128	3/8		#7 But Hex	1 1/2	2 1/2 x 1 1/8	ED15, ED16 to Diaphragms
2	8	3/8		#9 But Hex	2	2 1/2 x 1 1/8	ED16 to D39, D41
3	8	3/8		#9 But Hex	2	2 1/2 x 1 1/8	ED15 to D36, D38
4							
5							
6	144	Washers 2 1/8"		1/4" thick - 1/2" hole			For use under nut of Dardale + Rivet
7	288	Washers 2 1/8"		1/4" thick - 1/2" hole			Bolts replaced to build up required grip as noted on lines 1, 2 & 3
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
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37							
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41							
42							
43							
44							
45							
46							

ERECTORS LIST
FIELD RIVETS AND BOLTS
AMERICAN BRIDGE

LINE NO.	NO. PCS.	DIAM.	RIVETS	BOLTS	GRIP	THICKNESS OF MATERIAL CONNECTED	LOCATION
			LENGTH UNDER HEAD	HEAD NUT WASH-ER TYPE OF BOLT			
1	8	3/8	7			4 3/4 x 1 1/8	B42 to D43
2	10	3/8	4 3/8			2 1/2 x 1 1/8	B42
3	36	3/8	2 5/8			1 1/2 x 3/8	B42 to M57, D43
4	36	3/8	2 3/4			1 1/2 x 3/8	B42 to M58, D48
5	72	3/8	2 1/4			3/4 x 3/8	B42 to M56, M59, D27, D51
6	2	3/8	6 3/4			4 3/4 x 1 1/8	B40, B41 to M178
7	2	3/8	7			4 3/4 x 1 1/8	do
8	6	3/8	7			4 3/4 x 1 1/8	do
9	2	3/8	7 1/4			4 3/4 x 1 1/8	do
10	32	3/8	7			4 3/4 x 1 1/8	B40, B41 to D43, 44, 72
11	40	3/8	2 1/4			3/4 x 3/8	B40, B41 to D43, D44, D72
12	40	3/8	2 3/4			3/4 x 3/8	B40, B41 to D48, 49, 50
13	32	3/8	2 1/4			3/4 x 3/8	B40, B41 to D27, 28, 29, 37, 38, 51
14	6	3/8	2 1/4			1 1/2 x 3/8	M58 to D48
15	6	3/8	3 1/8			1 1/2 x 3/8	M67 to D50
16	24	3/8	2 1/2			1 1/2 x 3/8	M52, 56, 64, 65 to D27, 29, 77, 78
17	8	3/8	2 1/2			1 1/2 x 3/8	M51, 59, 60, 68 to D38, 39, 41, 51
18	6	3/8	4			2 1/2 x 3/8	M54 to D45
19	6	3/8	4 1/4			2 1/2 x 3/8	M63 to D47
20	8	3/4		2 1/2 Hex Hex Ordinary	1 1/2	3/8 x 1 1/4	M59, M58, M63, M67 to B40, 41, 44, 45, 32, 33, 36, 37
21	16	3/4		2 1/2 Hex Hex Ordinary	1 1/2	3/8 x 1 1/4	M51, 52, 56, 59, 60, 61, 65, 68 to Fascia's
22	8	3/8	4			2 1/2 x 3/8	M53 to D64
23	8	3/8	4 1/4			2 1/2 x 3/8	M62 to D65
24	16	3/8	4 3/8			2 1/2 x 3/8	M55, M57 to D43, D73
25	16	3/8	4 5/8			2 1/2 x 3/8	M64, M66 to D43, D44
26	12	3/4		2 1/2 Hex Hex Ordinary	1 1/2	3/8 x 1 1/4	M53, 55, 57, 62, 64, 66 to Fascia's
27	72	3/8	4 1/2			2 1/2 x 3/8	D43, 44, 49, 55, 70, 71, 72, 73 to M175, 177, 179
28							
29							
30							
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46							

0 1 2 3 4 5 INCHES

MARKS—SIDE FIGURE FOR 10 BY TOP FIGURE
SHEET NUMBER IS GIVEN IN FACE AT INTERSECTION

INDEX TO MARKS

AMERICAN BRIDGE COMPANY

GENERAL MARK G NAME OF MEMBER SHEET LETTER

G GIRDERS

0	1	2	3	4	5	6	7	8	9
A	101	101	101	101					
B	201	201	201	201					
C	301	301	301	301					
D	401	401	401	401					
E	501	501	501	501					
F	601	601	601	601					

GENERAL MARK CF NAME OF MEMBER SHEET LETTER

CF CROSS FRAMES

0	1	2	3	4	5	6	7	8	9
1	102	102	102	103	103	104	102	103	102
2									
3									
4									
5									
6									
7									
8									
9									

GENERAL MARK D NAME OF MEMBER SHEET LETTER

D DIAGONALS

0	1	2	3	4	5	6	7	8	9
1	105	105	105	105	105	105	105	105	105
2									
3									
4									
5									
6									
7									
8									
9									

GENERAL MARK S NAME OF MEMBER SHEET LETTER

S STRUTS

0	1	2	3	4	5	6	7	8	9
1	109	109	109	108	108	108	109	109	108
2	108	108	109	109	109	109	108	108	109
3	108	109	108	108	108	109	103	103	103
4									
5									
6									
7									
8									
9									

GENERAL MARK M NAME OF MEMBER SHEET LETTER

M SHIMS

0	1	2	3	4	5	6	7	8	9
1									
2									
3	302	302							
4									
5									
6									
7									
8									
9									

GENERAL MARK BR NAME OF MEMBER SHEET LETTER

BR BRACKETS

0	1	2	3	4	5	6	7	8	9
1	106	106	106	106	106	108	106	108	106
2									
3									
4									
5									
6									
7									
8									
9									

GENERAL MARK F NAME OF MEMBER SHEET LETTER

F FASCIA

0	1	2	3	4	5	6	7	8	9
1	107	107	107	107	107	107	107	107	107
2									
3									
4									
5									
6									
7									
8									
9									

SUMMARY OF SHEETS

CONTENTS	SHEET LETTER	SHEET NUMBERS
EXPANSION DAMS EDI, 2, 3, 4	—	302
LADDERS L1, L2, L3	—	202
MAN HOLE - M4	—	202

INDEX TO MARKS

DATE NAME FEL

DATE DRAWING TRENTON

DATE FABRICATION AMBRIDGE

ORDER No. Q4150

SHEET No. K1

NAME OF STRUCTURE

BANGOR-BREWER BRIDGE, PENOBSCOT RIVER, STATE OF MAINE

ERECTOR'S LIST
FIELD RIVETS AND BOLTS
AMERICAN BRIDGE COMPANY

LINE NO.	NO. PCS.	DIAM.	RIVETS	BOLTS	THICKNESS OF MATERIAL CONNECTED	LOCATION
1	128	7/8	#7	Butt Hex	1 1/2	ED21, ED22 to Diaphragms
2	16	7/8	#9		2 1/2	ED21, ED22 to D38, S1, S2, 80
3	64	7/8	#7		1 1/2	ED27 to Diaphragms
4	4	7/8	#11		2 1/2	ED27 to D56
5	4	7/8	#12		2 1/2	ED27 to D58
6	4	7/8	#6		1 1/2	ED28 to Cross FRAMES-Q4150
7	4	7/8	#10		2 1/2	ED28 to CF1-Q4150
8	4	7/8	#9		1 1/2	ED28 to CF1-Q4150
9						
10						
11						
12						
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14						
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50						

288 Washers 2 1/2 x 6 thick to 4 1/2
576 Washers 2 1/2 x 6 thick to 4 1/2

For use under nut of Dardelle
Rivet Bolts as required to
build up required grip as noted
on lines 1 thru 8.

FIELD RIVETS AND BOLTS

NAME DATE PRY 2-23-54

REVISIONS

DRAWING TR

FABRICATION TR

IN CHARGE OF Marks

ORDER No. Q4149

Div 4 SHEET No. EF403

NAME OF STRUCTURE

Bangor-Brewer Bridge-Bangor, Me.

ERECTOR'S LIST
FIELD RIVETS AND BOLTS
AMERICAN BRIDGE COMPANY

LINE NO.	NO. PCS.	DIAM.	RIVETS	BOLTS	THICKNESS OF MATERIAL CONNECTED	LOCATION
1	72	7/8	2 1/2		1 1/2	B47, B50 to M75, M85, D53, 55
2	72	7/8	2 1/2		1 1/2	B47, B50 to M75, M85, D56, D58
3	144	7/8	2 1/2		3/4	B47, B50 to M75, M85, D56, D58
4	48	7/8	2 1/2		1 1/2	M75, M85 to D53, D58
5	4	7/8	2 1/2		1 1/2	M75, M85 to D53, D58
6	4	7/8	2 1/2		1 1/2	M75, M85 to D53, D58
7	4	7/8	2 1/2		1 1/2	M75, M85 to D53, D58
8	4	7/8	2 1/2		1 1/2	M75, M85 to D53, D58
9	4	7/8	2 1/2		1 1/2	M75, M85 to D53, D58
10	4	7/8	2 1/2		1 1/2	M75, M85 to D53, D58
11	4	7/8	2 1/2		1 1/2	M75, M85 to D53, D58
12	4	7/8	2 1/2		1 1/2	M75, M85 to D53, D58
13	4	7/8	2 1/2		1 1/2	M75, M85 to D53, D58
14	4	7/8	2 1/2		1 1/2	M75, M85 to D53, D58
15	4	7/8	2 1/2		1 1/2	M75, M85 to D53, D58
16	4	7/8	2 1/2		1 1/2	M75, M85 to D53, D58
17	4	7/8	2 1/2		1 1/2	M75, M85 to D53, D58
18	4	7/8	2 1/2		1 1/2	M75, M85 to D53, D58
19	4	7/8	2 1/2		1 1/2	M75, M85 to D53, D58
20	4	7/8	2 1/2		1 1/2	M75, M85 to D53, D58
21	4	7/8	2 1/2		1 1/2	M75, M85 to D53, D58
22	4	7/8	2 1/2		1 1/2	M75, M85 to D53, D58
23	4	7/8	2 1/2		1 1/2	M75, M85 to D53, D58
24	4	7/8	2 1/2		1 1/2	M75, M85 to D53, D58
25	4	7/8	2 1/2		1 1/2	M75, M85 to D53, D58
26	4	7/8	2 1/2		1 1/2	M75, M85 to D53, D58
27	4	7/8	2 1/2		1 1/2	M75, M85 to D53, D58
28	4	7/8	2 1/2		1 1/2	M75, M85 to D53, D58
29	4	7/8	2 1/2		1 1/2	M75, M85 to D53, D58
30	4	7/8	2 1/2		1 1/2	M75, M85 to D53, D58
31	4	7/8	2 1/2		1 1/2	M75, M85 to D53, D58
32	4	7/8	2 1/2		1 1/2	M75, M85 to D53, D58
33	4	7/8	2 1/2		1 1/2	M75, M85 to D53, D58
34	4	7/8	2 1/2		1 1/2	M75, M85 to D53, D58
35	4	7/8	2 1/2		1 1/2	M75, M85 to D53, D58
36	4	7/8	2 1/2		1 1/2	M75, M85 to D53, D58
37	4	7/8	2 1/2		1 1/2	M75, M85 to D53, D58
38	4	7/8	2 1/2		1 1/2	M75, M85 to D53, D58
39	4	7/8	2 1/2		1 1/2	M75, M85 to D53, D58
40	4	7/8	2 1/2		1 1/2	M75, M85 to D53, D58
41	4	7/8	2 1/2		1 1/2	M75, M85 to D53, D58
42	4	7/8	2 1/2		1 1/2	M75, M85 to D53, D58
43	4	7/8	2 1/2		1 1/2	M75, M85 to D53, D58
44	4	7/8	2 1/2		1 1/2	M75, M85 to D53, D58
45	4	7/8	2 1/2		1 1/2	M75, M85 to D53, D58
46	4	7/8	2 1/2		1 1/2	M75, M85 to D53, D58
47	4	7/8	2 1/2		1 1/2	M75, M85 to D53, D58
48	4	7/8	2 1/2		1 1/2	M75, M85 to D53, D58
49	4	7/8	2 1/2		1 1/2	M75, M85 to D53, D58
50	4	7/8	2 1/2		1 1/2	M75, M85 to D53, D58

FIELD RIVETS AND BOLTS

NAME DATE PRY 2-23-54

REVISIONS

DRAWING TR

FABRICATION TR

IN CHARGE OF Marks

ORDER No. Q4149

Div 4 SHEET No. EF402

NAME OF STRUCTURE

Bangor-Brewer Bridge-Bangor, Me.

0 1 2 3 4 5 INCHES

AMERICAN BRIDGE COMPANY

Specify under D1
LDF - LIGHT DRIVE FIT
DF - DRIVE FIT
OF - ORDINARY FIT
(HOLE DIAMETER MINUS 1/32")

STANDARD WASHERS

PLATE LOCK BEVEL

TYPE X V P

DIMENSION A GRIP 1/8" OR 3/8" GRIP 1/8" OR 3/8"

FOR AMBRIDGE FABRICATION FOR ORDINARY FIT TURNED BOLTS REDUCE DIMENSION A 1/8"

NO. REQD.	TYPE OF REAMED HEAD	SIZE OF REAMED HOLE	D1	D2	A	B	L	GRIP	TYPE OF NUT	NO. OF NUTS EACH BOLT	TYPE OF WASHER	NO. AND SIZE OF WASHERS EACH BOLT	LOCATION	SHEET NO. DRAWING	SHEET NO. STRUCTURE	CALCULATED HEIGHT TOTAL	SHIPMENTS	
8	Hex	1 1/2	DF	3/8	6 1/4	1 1/4	7 1/2	6 1/2	Hex	1	X	1-2 1/2 x 3/8					20	
2	Hex	1 1/2	DF	3/8	5 3/8	1 3/8	7 1/2	5 3/4	Hex	1	X	1-2 1/2 x 3/8	Gir. to Pedestal at Piers				5	
6	Hex	1 1/2	DF	3/8	6 3/8	1 3/8	8	6 1/2	Hex	1	X	1-2 1/2 x 3/8					16	
16	Hex	1 1/2	DF	3/8	5 3/8	1 3/8	6 3/4	5 1/4	Hex	1	X	1-2 1/2 x 3/8					36	
16	Hex	1 1/2	DF	3/8	2 3/8	1 3/8	3 3/4	2 1/4	Hex	1	X	1-2 1/2 x 3/8	Gir. to Pedestal at Abut.				28	

Sheet Total 100

TURNED BOLTS DIV. 1

NAME OF STRUCTURE BANGOR-BREWER BRIDGE

DATE 2/10/54



DRAWINGS TRENTON

FABRICATION AMBRIDGE

ORDER No. Q4150

SHEET No. C102

AMERICAN BRIDGE COMPANY

UNITED STATES STEEL CORPORATION SUBSIDIARY													
LINE NO.	ACTUAL NUMBER REQ'D.	NO. SHIPPED	DIAM.	RIVETS		BOLTS					GRIP	CALCULATED WEIGHT TOTAL	SHIPMENTS
						LENGTH UNDER HEAD	HEAD	NUT	WASHER	TYPE OF BOLT			
1													
2													
3	8	12	3/8	6							4	15	
4	192	231		5 1/2							3 3/8	249	
5	4	6		5							3 1/2	6	
6	4	6		4 1/2							2 1/2	6	
7	4	6		4 1/2							2 1/2	6	
8	4	6		4 1/2							2 1/2	6	
9	12	17		4							2 1/4	15	
10	67	82		3 3/8							2 1/2	70	
11	62	70		3 1/2							1 1/2	56	
12	39	50		3 3/8							1 1/2	41	
13	485	560		3 1/2							1 1/2	442	
14	266	317		3 1/2							1 1/2	228	
15	594	694		2 1/2							1 1/2	444	
16	136	167		2 1/2							1 1/2	104	
17	394	464		2 3/8							1 1/2	274	
18	548	642		2 1/2							1 1/2	366	
19	40	50		4 1/2							2 1/2	47	
20	48	58		3 1/4							1 1/2	43	
21													
22	8	11	3/4			3	Hex	Hex	Hex	Ordinary	2 1/2	7	
23	20	25	3/4			2 1/2					1 1/2	19	
24													
25													
26													
27	28	36										8	
28													
29	16	16										3	
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66-22-26

FIELD RIVETS AND BOLTS
FOR DIV. 1

NAME OF STRUCTURE
BANGOR-BREWER BRIDGE

DATE
2/10/54

DATE
2/10/54

DRAWINGS
TRENTON
FABRICATION
AMBRIDGE

ORDER No.
Q4150

PAGE No.
C101

Sheet Total
2453

BANGOR-BREWER BRIDGE
PENOBSCOT RIVER, ME.

AMERICAN BRIDGE COMPANY

SKETCH SHEET

RIVETS

BOLTS

Rev 2-18-54

Mark chgd GAL

B-Rev. 2-22-54

Advance Bill Page

NO. PCB.

SHAPE

LENGTH

MARK

DEDUCT

ORDERED

ITEM

NO. PCB.

SHAPE

LENGTH

MARK

DEDUCT

ORDERED

ITEM

For Divisions see table

PAINT AFTER ASSEMBLY

SHOP CONTACT SURFACES NO

NAME OF STRUCTURE

ORDER No. Q4150

SHEET No. P101

STATE OF MAINE - STATE HIGHWAY COMMISSION - BANGOR-BREWER BRIDGE OVER PENOBSCOT RIVER - BANGOR, MAINE

3TO IMPRESSED 3LOT

7/8"

3/4"

1/2"

STANDARD WASHERS

1/2"

1/4"

1/2"

PLATE LOCK BEVEL

1/2"

1/4"

1/2"

SPECIFY UNDER DI

LDF = LIGHT DRIVE FIT

DF = DRIVE FIT

OF = ORDINARY FIT

(HOLE DIAMETER MINUS 1/32")

NO REQD.	TYPE OF HEAD	SIZE OF REAMED HOLE	DI	DZ	A	B	L	GRID	TYPE OF NUT	NO OF NUTS EACH BOLT	TYPE WASHER	NO AND SIZE OF WASHERS OF EACH BOLT	LOCATION	SHEET NO. EACH GRID	SHEET NO. STRUTTING	CALCULATED WEIGHT TOTAL	SHIPMENTS
6	Hex	1 5/16	DF	7/8	6 3/4	1 1/4	8	6 3/8	Hex	1	X	1-2 1/4 x 3/8	Girs. to Pedestal				16
8	Hex	1 5/16	DF	7/8	6 3/8	1 3/8	7 1/2	6 1/4	Hex	1	X	1-2 1/4 x 3/8					21
2	Hex	1 5/16	DF	7/8	6	1 1/4	7 1/4	5 3/8	Hex	1	X	1-2 1/4 x 3/8					5
16	Hex	1 5/16	DF	7/8	5 3/8	1 3/8	7 1/4	5 3/4	Hex	1	X	1-2 1/4 x 3/8					40

TURNED BOLTS.

DIV. 2

DATE: 1/1/1911

DRAWING: Traction

FABRICATION: Ambridge

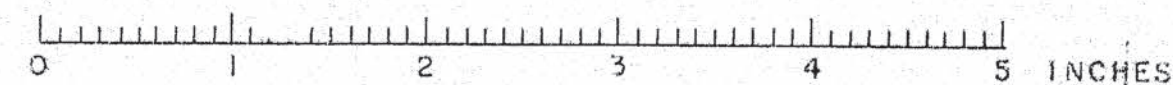
ORDER No. Q4150

SHEET No. C202

NAME OF STRUCTURE

BANGOR-BREWER BRIDGE

PENOBSCOT RIVER ME

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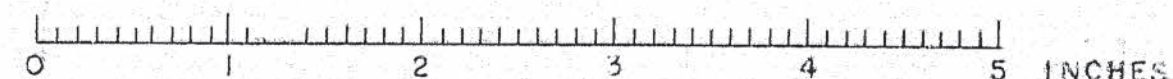
FORM D-581
TURNED BOLTO
AMERICAN BRIDGE COMPANY

62-23

073 REV. 5-66
FIELD RIVETS AND BOLTS
AMERICAN BRIDGE COMPANY
UNITED STATES STEEL CORPORATION SUBSIDIARY

232

FIELD RIVETS AND BOLTS
AMERICAN BRIDGE COMPANY

103, 120

072 REV. 5-58
FIELD RIVETS AND BOLTS
AMERICAN BRIDGE COMPANY
UNITED STATES STEEL CORPORATION SUBSIDIARY

LINE NO.	ACTUAL NUMBER REQ'D.	NO. SHIPPED	DIAM.	RIVETS	LENGTH UNDER HEAD	HEAD	NUT	WASHER	TYPE OF BOLT	GRIP	SHIPMENTS
1											
2											
3	8	11	3/8	64						44	
4	232	277		5 1/2						3 1/2	
5	4	6		5 3/8						3 3/8	
6	4	6		5 1/2						3 1/2	
7	16	23		4 3/8						3	
8	97	122		4 1/2						2 1/2	
9	18	25		4 1/2						2 1/2	
10	274	325		4 3/8						2 1/2	
11	76	98		4 1/2						2 1/2	
12	241	288		4 1/2						2 1/2	
13	20	27		4						2 1/2	
14	35	45		3 3/8						1 1/2	
15	63	75		3 1/2						1 1/2	
16	166	200		3 1/2						1 1/2	
17	90	114		3 1/2						1 1/2	
18	60	70		2 3/4						1 1/2	
19	878	1020		2 3/8						1 1/2	
20	242	288		2 1/2						1 1/2	
21	490	574		2 3/8						1 1/2	
22	780	217		2 1/2						1 1/2	
23	216	260		2 1/2						1 1/2	
24	24	32		3 1/2						2	
25											
26											
27											
28	4	6	3/4		3	Hex.	Hex.	Bev.	Ordinary	28	
29	24	30	3/4		2 3/4	Hex.	Hex.	Bev.	"	1 1/2	
30											
31											
32											
33											
34	28	36		Standard Beveled Washers - 1/8" Hole							
35											
36	16	16		Standard Beveled Washers - 1/8" Hole - for turned bolts							
37											
38											
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<div> <div>FIELD RIVETS AND BOLTS</div> <div>Div. 4</div> </div> <div> <div>DATE</div> <div>5/16</div> </div> <div> <div>DRAWINGS</div> <div>Trenton</div> </div> <div> <div>ORDER No.</div> <div>Q4150</div> </div> <div> <div>PAGE No.</div> <div>C401</div> </div> <div> <div>NAME OF STRUCTURE</div> <div>BANGOR-BREWER BRIDGE</div> </div> <div> <div>DATE</div> <div>5/16</div> </div> <div> <div>DRAWINGS</div> <div>Trenton</div> </div> <div> <div>ORDER No.</div> <div>Q4150</div> </div> <div> <div>PAGE No.</div> <div>C401</div> </div> <div> <div>NAME OF STRUCTURE</div> <div>PENOBSCOT RIVER, ME</div> </div>											

072 REV. 5-58
FIELD RIVETS AND BOLTS
AMERICAN BRIDGE COMPANY
UNITED STATES STEEL CORPORATION SUBSIDIARY

LINE NO.	ACTUAL NUMBER REQ'D.	NO. SHIPPED	DIAM.	RIVETS	LENGTH UNDER HEAD	HEAD	NUT	WASHER	TYPE OF BOLT	GRIP	SHIPMENTS
1	8	20	3/8	4 3/8						3 1/2	
2	22	36		3 3/8						2 1/2	
3	147	180		3 3/8						1 1/2	
4	16	30		3 1/2						1 1/2	
5	100	125		3 1/2						1 1/2	
6	33	50		3 1/2						1 1/2	
7	32	50		2 3/4						1 1/2	
8	28	45		2 3/8						1 1/2	
9	6	16		2 1/2						1 1/2	
10	18	32		2 1/2						1 1/2	
11											
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<div> <div>FIELD RIVETS AND BOLTS</div> <div>Div. 3 - LATERAL RATES TO GIRDERS</div> </div> <div> <div>DATE</div> <div>5/16</div> </div> <div> <div>DRAWINGS</div> <div>Trenton</div> </div> <div> <div>ORDER No.</div> <div>Q4150</div> </div> <div> <div>PAGE No.</div> <div>C304</div> </div> <div> <div>NAME OF STRUCTURE</div> <div>BANGOR-BREWER BRIDGE</div> </div> <div> <div>DATE</div> <div>5/16</div> </div> <div> <div>DRAWINGS</div> <div>Trenton</div> </div> <div> <div>ORDER No.</div> <div>Q4150</div> </div> <div> <div>PAGE No.</div> <div>C304</div> </div> <div> <div>NAME OF STRUCTURE</div> <div>BANGOR-BREWER BRIDGE</div> </div>											

072 REV. 5-58
FIELD RIVETS AND BOLTS
AMERICAN BRIDGE COMPANY
UNITED STATES STEEL CORPORATION SUBSIDIARY

LINE NO.	ACTUAL NUMBER REQ'D.	NO. SHIPPED	DIAM.	RIVETS	LENGTH UNDER HEAD	HEAD	NUT	WASHER	TYPE OF BOLT	GRIP	SHIPMENTS
1											
2	8	11	3/8								
3	64	72	3/8		3 3/8	Butt	Hex.		Darcelet Rivet	2 1/2	
4					2 3/8					1 1/2	
5	72	83		Washers	2 1/4	4"	1/4"	1/4"	Hole		
6	144	166			2 1/4	4"	1/4"	1/4"	Hole		
7											
8											
9											
10											
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45											
<div> <div>FIELD RIVETS AND BOLTS</div> <div>Darcelet Rivet Bolts</div> </div> <div> <div>DATE</div> <div>5/16</div> </div> <div> <div>DRAWINGS</div> <div>Trenton</div> </div> <div> <div>ORDER No.</div> <div>Q4150</div> </div> <div> <div>PAGE No.</div> <div>C303</div> </div> <div> <div>NAME OF STRUCTURE</div> <div>BANGOR-BREWER BRIDGE</div> </div> <div> <div>DATE</div> <div>5/16</div> </div> <div> <div>DRAWINGS</div> <div>Trenton</div> </div> <div> <div>ORDER No.</div> <div>Q4150</div> </div> <div> <div>PAGE No.</div> <div>C303</div> </div> <div> <div>NAME OF STRUCTURE</div> <div>PENOBSCOT RIVER, ME.</div> </div>											

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FIELD RIVETS AND BOLTS
AMERICAN BRIDGE COMPANY

LINE NO.	ACTUAL NUMBER REQ'D.	NO. SHIPPED	DIAM.	RIVETS	BOLTS	GRIP	SHIPMENTS
				LENGTH UNDER HEAD	HEAD		
				NUT	WASH-ER	TYPE OF BOLT	
1							
2							
3	40	50	3/8	4 3/8		2 1/2	51
4	12	17		4 3/8		2 3/8	17
5	10	13		4 3/8		2 1/2	13
6	36	46		3 3/8		1 3/8	37
7	80	95		3 3/8		1 3/8	70
8	12	17		2 3/8		1 3/8	11
9	180	217		2 3/8		1 3/8	139
10	60	75		2 3/8		1 3/8	47
11	526	614		2 3/8		1 3/8	362
12	146	177		2 3/8		1 3/8	101
13	180	217		2 3/8		1 3/8	119
14	32	42		3 3/8		2 3/8	36
15	32	42		3 3/8		2 3/8	35
16							
17							
18							
19	20	25	3/4	2 3/4 Hex	Hex	Bev. Ordinary	15
20							
21							
22	20	25		Standard Beveled Washers - 1 3/8" hole			6
23							
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ERECTORS LIST FIELD RIVETS AND BOLTS AMERICAN BRIDGE COMPANY

LINE NO.	NO. PCS.	DIAM.	RIVETS	BOLTS	GRIP	THICKNESS OF MATERIAL CONNECTED	LOCATION
			LENGTH UNDER HEAD	HEAD	NUT	WASHER	
1	12	3/8	2 3/8				D2 to CF4, CF6
2	20	3/8	2 3/8				D3 to CF6
3	32	3/8	2 3/8				D1 to CF4
4	4	3/8	2 3/8				D2 to S30
5	8	3/8	2 3/8				D2 to S26, S27
6	8	3/8	2 3/8				
7							
8	8	3/8	2 3/8				Fascia C to BR1, BR3, BR6, BR7, BR9
9	20	3/8	2 3/8				" " BR2
10	2	DF	7 1/2	Hex	Hex	Dev. Under Nut	Gir. to Pedestal @ Piers
11	2		7 1/2	"	"	"	" " " "
12	6		8	"	"	"	Gir. to Pedestal @ Piers
13	6		7 1/2	"	"	"	" " " "
14	16		6 1/2	"	"	Flat	" " " "
15	16	DF	3 1/2	Hex	Hex	Flat Turned	Gir. to Pedestal @ Abuts.
16							
17							
18							
19							
20							
21							
22							
23	6	3/8	3 3/8				52 1/2 (Div. 3) to Gir.
24	363	3/8	3 3/8				Cov. Pls. to Fig. 15
25	15	3/8	3 3/8				Cov. Pls. to Fig. 15 to Guss. Pl.
26	192	3/8	5 1/2				Spl. Pls. to Fig. 15 to Web
27							
28	8	3/8	6				" " " " to stiff ls
29	72	3/8	3 1/2				stiff. ls to spl. pl. to web
30	288	3/8	2 3/8				Spl. Pls. to Web
31							
32							
33							
34	48	3/8	3 1/2				GIR + G4A, G1E to G4E
35	40	3/8	3 1/2				
36							
37							
38							
39							
40							
41							
42							
43							
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ERECTORS LIST FIELD RIVETS AND BOLTS AMERICAN BRIDGE COMPANY

LINE NO.	NO. PCS.	DIAM.	RIVETS	BOLTS	GRIP	THICKNESS OF MATERIAL CONNECTED	LOCATION
			LENGTH UNDER HEAD	HEAD	NUT	WASHER	
1	40	3/8	4 3/8				Sdt. Brkt. # Cr. Fr. Conn. L to Gir. at Pier
2	12	3/8	4				Sdt. Brkt. conn. L to Gir.
3	96	3/8	3 3/8				" " " " " "
4	4	3/8	5				BR6 (Div. 3) BR1 (Div. 1) to Gir. Fig.
5	4	3/8	4 3/8				" " " " " "
6	40	3/8	3 3/8				BR2 (Div. 1), BR5 (Div. 3) " " " "
7	4	3/8	4 3/8				BR7 (Div. 1), BR9 (Div. 3) " " " "
8	4	3/8	4 1/2				" " " " " "
9	12	3/8	2 3/8				Fascia Struts to Gir. Fig.
10	36	3/8	3 3/8				" " " " " "
11	6	3/8	3 3/8				" " " " " "
12	18	3/8	3 3/8				" " " " " "
13							
14	192	3/8	2 3/8				D6 to Girs
15	120	3/8	2 3/8				D7, D8, D9, D10 to Girs. G2 1/2, G3 1/2, G4 1/2
16	24	3/8	2 1/2				D8, D9 to G1E
17	36	3/8	2 1/2				CF1, CF2 to Gir. Fig.
18	190	3/8	2 1/2				CF3, CF5, CF9, CF11 to CF16 incl. to Gir. Fig.
19							
20	16	3/8	2 3/8				BR6 (Div. 1) to Cross Frames
21	60	3/8	2 1/2				BR2 (Div. 1), BR5 (Div. 3) " " " "
22	12	3/8	2 1/2				BR7 (Div. 1), BR9 (Div. 3) " " " "
23							
24	29	3/8	3 3/8				S26, S27 to Gir.
25	29	3/8	3 3/8				" " " " " "
26	10	3/8	3 3/8				S30 " " " "
27	10	3/8	3 3/8				S30 " " " "
28							
29	36	3/8	3 3/8				BR1, BR3, BR8 to Gir. Stiff.
30	180	3/8	2 3/8				BR2 (Div. 1), BR5 (Div. 3) " " " "
31	36	3/8	3 3/8				BR7 (Div. 1), BR9 (Div. 3) " " " "
32							
33	78	3/8	2 3/8				CF1E, CF2 to Gir. Stiff.
34	130	3/8	2 1/2				CF3E, CF9E, CF11 to CF16 incl. to Ext. Girs
35	180	3/8	2 1/2				" " " " " " " "
36	80	3/8	3 3/8				CF4, CF6 to Gir.
37							
38	32	3/8	2 1/2				D1 to Gir
39	20	3/8	2 3/8				D3 to Gir
40	10	3/8	2 3/8				S30 to Gir
41	16	3/8	2 3/8				S26, S27 to Gir
42							
43							
44							
45							
46							

AMERICAN BRIDGE COMPANY

LINE NO.	ACTUAL NUMBER REQD.	NO. SHIPPED	DIAM.	RIVETS	BOLTS	GRIP	THICKNESS OF MATERIAL CONNECTED	LOCATION
				LENGTH UNDER HEAD	HEAD	NUT	WASHER	
1	20	35	3/8	4 1/2				
2	16	30	3/8	4 3/8				
3	16	30	3/8	4 1/2				
4	76	100	3/8	4 1/2				
5	40	57	3/8	4 1/2				
6	40	57	3/8	4 1/2				
7	16	30	3/8	4 1/2				
8	64	85	3/8	4 1/2				
9	48	66	2 1/2	4 1/2				
10	21	35	2 1/2	4 1/2				
11								
12								
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14								
15								
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ERECTORS LIST
FIELD RIVETS AND BOLTS
AMERICAN BRIDGE

LINE NO.	NO. PCS.	DIAM.	RIVETS	BOLTS	GRIP	THICKNESS OF MATERIAL CONNECTED	LOCATION
			LENGTH UNDER HEAD	HEAD NUT WASH-ER TYPE OF BOLT			
1	8	3/8	4			24	sdwk brkt conn. L to Gir
2	4	3/8	4 1/2			2 1/2	" " " " "
3	64	3/8	3 1/2			1 1/2	" " " " "
4	32	3/8	3 1/2			1 1/2	" " " " "
5	40	3/8	4 1/2			2 1/2	" " " " " at Pier
6							
7							
8	32	3/8	4 1/2			2 1/2	sdwk brkt to Gir. Flg.
9	8	3/8	4 1/2			2 1/2	" " " " "
10	8	3/8	4 1/2			3	" " " " " At Field Spl.
11	4	3/8	5 1/2			3 1/2	BRK (DIN) to Gir. Flg.
12	4	3/8	5 1/2			3 1/2	BRK (DIN) to Gir. Flg.
13							
14							
15	16	3/8	2 1/2			1 1/2	538 578 588 (DIN) to Gir
16	26	3/8	3 1/2			1 1/2	sdwk struts to Gir
17	6	3/8	4 1/2			2 1/2	" " " " "
18	6	3/8	3 1/2			1 1/2	" " " " "
19	18	3/8	4 1/2			2 1/2	" " " " "
20	6	3/8	4 1/2			2 1/2	" " " " "
21	6	3/8	4 1/2			2 1/2	" " " " "
22	6	3/8	4 1/2			2 1/2	" " " " " At Field Spl.
23							
24							
25	192	3/8	2 1/2			1 1/2	D11, D12 to Gir
26	60	3/8	2 1/2			1 1/2	D13 " Gir
27	56	3/8	2 1/2			1 1/2	D14 " "
28	14	3/8	2 1/2			1 1/2	D15 " Int. Gir.
29	14	3/8	2 1/2			1 1/2	D15 " Ext. "
30	16	3/8	2 1/2			1 1/2	D16 " " "
31	16	3/8	2 1/2			1 1/2	D16 " Int. Gir.
32	64	3/8	2 1/2			1 1/2	D17 " Girs.
33	190	3/8	2 1/2			1 1/2	CF3P, CF5, CF9E, CF11, CF13, CF15 to Gir. Flg.
34	38	3/8	2 1/2			1 1/2	CF10E, CF5, CF7E, CF16 " " "
35							
36	60	3/8	2 1/2			1 1/2	BRK (DIN) Cr. Frames
37	12	3/8	2 1/2			1 1/2	BRK (DIN) " "
38	12	3/8	2 1/2			1 1/2	BRK (DIN) " "
39	12	3/8	2 1/2			1 1/2	BRK (DIN) " "
40							
41							
42	29	3/8	3 1/2			1 1/2	528, 529 to Gir. Flgs.
43	10	3/8	3 1/2			1 1/2	" " " " "
44	10	3/8	3 1/2			1 1/2	" " " " "
45	10	3/8	3 1/2			1 1/2	" " " " "

FIELD RIVETS AND BOLTS

For one Div. - Divs. 2 & 4

NAME

DATE

REVISION

AMBRIDGE

DRAWINGS

Trenton

FABRICATION

AMBRIDGE

IN CHARGE OF

ORDER No.

Q4150

SHEET No.

EF201

NAME OF STRUCTURE

BANGOR-BREWER BRIDGE

PENOBSCOT RIVER, ME.

ERECTORS LIST
FIELD RIVETS AND BOLTS
AMERICAN BRIDGE

LINE NO.	NO. PCS.	DIAM.	RIVETS	BOLTS	GRIP	THICKNESS OF MATERIAL CONNECTED	LOCATION
			LENGTH UNDER HEAD	HEAD NUT WASH-ER TYPE OF BOLT			
1	3	3/8	3 1/2			1 1/2	hk 101 G4A to G4A
2	9	3/8	3 1/2			2 1/2	" " " " "
3							
4							Field Rivets Bot Flg.
5	12	3/4				1 1/2	G1A
6	12	3/4				1 1/2	G3A
7	12	3/4				1 1/2	G4A
8							Field Rivets Top Flg.
9	32	2 1/2				1 1/2	All girders
10	64	3/4				1 1/2	
11	16	3/2				1 1/2	
12							
13							
14							
15							
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17							
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FIELD RIVETS AND BOLTS

Div. 1 - LAT. Ps to Gdrs

NAME

DATE

REVISION

AMBRIDGE

DRAWINGS

Trenton

FABRICATION

AMBRIDGE

IN CHARGE OF

MARK'S

ORDER No.

Q4150

SHEET No.

EF104

NAME OF STRUCTURE

BANGOR-BREWER BRIDGE

BANGOR, MAINE

ERECTORS LIST
FIELD RIVETS AND BOLTS
AMERICAN BRIDGE

LINE NO.	NO. PCS.	DIAM.	RIVETS	BOLTS	GRIP	THICKNESS OF MATERIAL CONNECTED	LOCATION
			LENGTH UNDER HEAD	HEAD NUT WASH-ER TYPE OF BOLT			
1	6	3/8	2 1/2			1 1/2	pa 101 G2A to G2A
2	8	3/8	2 1/2			1 1/2	pt 101 G2A " "
3	7	3/8	1 1/2			3 1/2	pd 101 G2A " "
4	11	3/8	1 1/2			3 1/2	" " " " "
5	8	3/8	1 1/2			3 1/2	ph 101 G2A " "
6	8	3/8	1 1/2			3 1/2	pp 101 G2A " "
7	5	3/8	1 1/2			3 1/2	py 101 G2A " "
8	3	3/8	2 1/2			3 1/2	hb 101 G2A " "
9	6	3/8	1 1/2			3 1/2	pba 101 G2A " "
10	12	3/8	1 1/2			3 1/2	ack 101 G2A " "
11	13	3/8	1 1/2			3 1/2	hh 101 G2A " "
12	10	3/8	2 1/2			3 1/2	" " " " "
13	2	4 1/2	32			3 1/2	hp 101 G2A " "
14	6	3/8	2 1/2			3 1/2	pbm G2A " "
15	2	4 1/2	32			3 1/2	pbn G2A " "
16	12	3/8	1 1/2			3 1/2	hm 101 G2A " "
17	12	3/8	1 1/2			3 1/2	kg 101 G2A " "
18	6	3/8	2 1/2			3 1/2	hg 101 G1A to G1A
19	9	3/8	1 1/2			3 1/2	" " " " "
20	10	3/8	2 1/2			3 1/2	pa 101 G3A to G3A
21	2	4 1/2	32			3 1/2	ps 101 G3A " "
22	6	3/8	1 1/2			3 1/2	pd 101 G3A " "
23	8	3/8	1 1/2			3 1/2	" " " " "
24	7	3/8	1 1/2			3 1/2	pk 101 G3A " "
25	11	3/8	1 1/2			3 1/2	pm 101 G3A " "
26	8	3/8	1 1/2			3 1/2	pbb 101 G3A " "
27	8	3/8	1 1/2			3 1/2	hb 101 G3A " "
28	6	3/8	1 1/2			3 1/2	pbd 101 G3A " "
29	5	3/8	1 1/2			3 1/2	" " " " "
30	7	3/8	1 1/2			3 1/2	pbf 101 G3A " "
31	7	3/8	1 1/2			3 1/2	" " " " "
32	6	3/8	1 1/2			3 1/2	hp 101 G3A " "
33	2	4 1/2	32			3 1/2	hh 101 G3A " "
34	10	3/8	2 1/2			3 1/2	pbt 101 G3A " "
35	2	4 1/2	32			3 1/2	pbp 101 G3A " "
36	12	3/8	1 1/2			3 1/2	hm 101 G3A " "
37	12	3/8	1 1/2			3 1/2	kg 101 G3A " "
38	9	3/8	1 1/2			3 1/2	pca 101 G3A " "
39	18	3/8	1 1/2			3 1/2	" " " " "
40	6	3/8	1 1/2			3 1/2	hc 101 G4A to G4A
41	11	3/8	1 1/2			3 1/2	hh 101 G4A to G4A
42	10	3/8	2 1/2			3 1/2	" " " " "
43	2	4 1/2	32			3 1/2	" " " " "

FIELD RIVETS AND BOLTS

Div. 1 - LAT. Ps to Gdrs

NAME

DATE

REVISION

AMBRIDGE

DRAWINGS

Trenton

FABRICATION

AMBRIDGE

IN CHARGE OF

MARK'S

ORDER No.

Q4150

SHEET No.



EF103

NAME OF STRUCTURE

BANGOR-BREWER BRIDGE

BANGOR, MAINE



ERECTORS LIST
FIELD RIVETS AND BOLTS
AMERICAN BRIDGE

UNITED STATES STEEL COMPANY											
LINE NO.	NO. PCS.	DIAM.	RIVETS		BOLTS				GRIP	THICKNESS OF MATERIAL CONNECTED	LOCATION
					LENGTH UNDER HEAD	HEAD	NUT	WASHER			
1	4	3/8	3/8						12	3/8	Field Rivets Top Flg G1B, G4B
2	8		3/8						2	3/8	"
3	16		4/4						2 1/2	3/8	"
4	28		2 3/4						1 1/2	3/8	Field Rivets Top Flg G2B, G3B
5	4		3/8						1 1/2	3/8	"
6	4		2 3/8						1 1/2	3/8	"
7	8		3/2						1 3/4	3/8	"
8	16		4						2 1/2	3/8	"
9											
10											
11											
12											
13											
14											
15											
16											
17											
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50											
FIELD RIVETS AND BOLTS											
DINZ-LATERAL PLATES TO GIRDER											
BANGOR-BREWER BRIDGE											
BANGOR, MAINE											

ERECTORS LIST
FIELD RIVETS AND BOLTS
AMERICAN BRIDGE

RIVETS		BOLTS				THICKNESS OF MATERIAL CONNECTED		LOCATION	
LINE NO.	NO. PCS.	DIAM.	LENGTH UNDER HEAD	HEAD	NUT	WASH-ER	TYPE OF BOLT	GRIP	
1									RATES TO GIRDER G2B
2	8	3/8						1 1/2	5/16
3	6	2 3/8						1 1/2	5/16
4	12	3/8						1 1/2	5/16
5	8	2 3/8						1 1/2	5/16
6	8	3/8						1 1/2	5/16
7	8	3/8						1 1/2	5/16
8	7	3/8						2 1/2	3/8
9	9	3/4						1 3/8	5/16
10	3	4						2 1/2	3/8
11	6	3/8						2 1/2	3/8
12	6	3/8						2 1/2	3/8
13	14	4 1/2						2 1/2	3/8
14	12	4 1/2						2 1/2	3/8
15	2	4 1/2						3 1/2	3/8
16	8	4 1/2						2 1/2	3/8
17	2	4 1/2						3 1/2	3/8
18	4	4 1/2						2 1/2	3/8
19	12	3/8						2 1/2	3/8
20	9	4						2 1/2	3/8
21									RATES TO GIRDER G3B
22	2	2 3/8						1 1/2	5/16
23	6	2 3/8						1 1/2	5/16
24	12	3/8						1 1/2	5/16
25	4	2 3/8						1 1/2	5/16
26	4	3/8						1 1/2	5/16
27	8	3/8						1 1/2	5/16
28	8	3/8						1 1/2	5/16
29	7	3/8						2 1/2	3/8
30	12	4						2 1/2	3/8
31	6	3/8						2 1/2	3/8
32	14	4 1/2						2 1/2	3/8
33	8	4 1/2						2 1/2	3/8
34	2	4 1/2						3 1/2	3/8
35	16	4 1/2						2 1/2	3/8
36	9	4						2 1/2	3/8
37	15	2 3/8						1 1/2	5/16
38	6	2 3/8						1 1/2	5/16
39									RATES TO GIRDER G4B
40	12	4 1/2						2 1/2	3/8
41	2	4 1/2						3 1/2	3/8
42	24	4 1/2						2 1/2	3/8
43	12	4						2 1/2	3/8
44	12	4 1/2						2 1/2	3/8
45	28	2 3/8						1 1/2	5/16
46	4	3/8						2 1/2	3/8
FIELD RIVETS AND BOLTS									
Div 2 LATERAL PLATES TO GDR									
NAME DATE									
FEL									
NAME OF STRUCTURE									
BANGOR - BREWER BRIDGE									
DRAWINGS									
TRENTON									
IN CHARGE OF									
MARKS									
ORDER No.									
FABRICATION									
AMBRIDGE									
Q4150									
SHEET No.									
EF203									
BANGOR, MAINE									

ERECTORS LIST
FIELD RIVETS AND BOLTS
AMERICAN BRIDGE

LINE NO.	NO. PCS.	DIAM.	RIVETS		BOLTS				GRIP	THICKNESS OF MATERIAL CONNECTED	LOCATION
					LENGTH UNDER HEAD	HEAD	NUT	WASHER			
1											
2	12	3/8							3/4	3/8	Ladder to Gir.
3	12	3/8							2 1/4	3/8	" " "
4											
5											
6	124	3/8							1 1/2	3/8	Subst Brkts & Gt. Frs. to Gir. Stiffeners
7	216	3/8							1 1/2	3/8	" " to Stiffs.
8	156	3/8							1 1/2	3/8	Cr. Frs. to Ext. Girs.
9	216	3/8							5/8	3/8	" " " Int. "
10											
11											
12	20	3/8							1 1/2	3/8	D3 to Gir
13	32	3/8							1 1/2	3/8	D1 " "
14	20	3/8							1 1/2	3/8	D3 " CFC
15	32	3/8							1 1/2	3/8	D1 " CFC
16	12	3/8							1 1/2	3/8	D2 " CFC, CFS
17	8	3/8							1 1/2	3/8	" " S28, S29
18	4	3/8							1 1/2	3/8	" " S16
19	16	3/8							1 1/2	3/8	S28, S29 to Gir Gus.
20	10	3/8							1 1/2	3/8	S16 " " "
21											
22											
23	225	3/8							2 1/2	3/8	Cov. Pls. to Flg. Ls
24	39	3/8							2 1/2	3/8	Spl. Pls. to Bot. Flg. Ls to Gus Pls.
25	235	3/8							2 1/2	3/8	Cov. Pls. to Flg. Ls
26	19	3/8							2 1/2	3/8	" " Bot. Flg. Ls to Gus Pls.
27	232	3/8							3 1/2	3/8	Spl. Pls. to Flg. Ls to web
28	4	3/8							2 1/2	3/8	Gus. Pls. to G1
29	8	3/8							4 1/2	3/8	" " " " " to Stiffs.
30	504	3/8							1 1/2	3/8	Spl. Pls. to web
31	72	3/8							2 1/2	3/8	" " " " " to Stiffs
32											
33											
34	4	3/8							2 1/2	3/8	Fascia L to BR76 (Div. 2)
35	24	3/8							1 1/2	3/8	" " BR76, BR56 (Div. 2)
36											
37											
38	6	DF							6 3/4	3/8	Gir. to Pedestal & Piers
39	6	DF							6 3/4	3/8	" " " " "
40	2	DF							6 3/4	3/8	" " " " "
41	2	DF							5 3/4	3/8	" " " " "
42	16	DF							5 3/4	3/8	" " " " "
43											
44	48	3/8							1 1/2	3/8	G1B to G4B, G1D to G4D
45	24	3/8							2 1/2	3/8	G1B to G4B, G1D to G4D
46	24	3/8							1 1/2	3/8	G2B to G3B, G2D to G3D
FIELD RIVETS AND BOLTS											
FOR ONE DIV. - Divs. 2 & 4											
NAME DATE											
FBR											
DRAWING											
TRITON											
FABRICATION											
Ambridge											
IN CHARGE OF											
WORKS											
ORDER NO.											
Q4150											
SHEET No.											
EF202											
NAME OF STRUCTURE											
BANGOR-BREWER BRIDGE PENOBSCOT RIVER, ME											

0 1 2 3 4 5 INCHES

ERECTORS LIST
FIELD RIVETS AND BOLTS
AMERICAN BRIDGE

LINE NO.	NO. PCS.	DIAM.	RIVETS	BOLTS	GRIP	THICKNESS OF MATERIAL CONNECTED	LOCATION
							PLATES TO GIRDER G2D
1	8	3/8	2 3/8		1 1/2	3/8	pd 201 G2D
2	6	3/8	2 3/8		1 1/2	3/8	pf 201 G2D
3	12	3/8	3 3/8		1 1/2	3/8	"
4	8	3/8	2 3/8		1 1/2	3/8	pk 201 G2D
5	8	3/8	2 3/8		1 1/2	3/8	pt 201 G2D
6	8	3/8	2 3/8		1 1/2	3/8	pv 201 G2D
7	8	3/8	2 3/8		1 1/2	3/8	pbd 201 G2D
8	7	3/8	2 3/8		1 1/2	3/8	pag 201 G2D
9	9	3/4	3 3/4		2 1/2	3/4	"
10	3	4	4		2 1/2	3/4	hm 201 ^R G2D
11	6	3/8	2 3/8		2 1/2	3/8	hm 201 ^L G2D
12	6	3/8	2 3/8		2 1/2	3/8	pa G2D
13	14	4/4	4 3/4		2 3/8	3/8	hf ^R G2D
14	8	4/4	4 3/4		2 3/8	3/8	"
15	2	4/8	4 3/8		2 3/8	3/8	hc ^L G2D
16	2	4/8	4 3/8		2 3/8	3/8	"
17	2	4/8	4 3/8		2 3/8	3/8	ph G2D
18	4	4/4	4 3/4		2 3/8	3/8	"
19	12	3/8	2 3/8		2 1/2	3/8	kg 201 G2D
20	9	4	4		2 1/2	3/4	PLATES TO GIRDER G3D
21							pa 201 G3D
22	2	2 3/8	2 3/8		1 1/2	3/8	pf 201 G3D
23	6	2 3/8	2 3/8		1 1/2	3/8	"
24	12	3/8	2 3/8		1 1/2	3/8	pm 201 G3D
25	4	2 3/8	2 3/8		1 1/2	3/8	"
26	4	3/8	2 3/8		1 1/2	3/8	pp 201 G3D
27	8	3/8	2 3/8		1 1/2	3/8	py 201 G3D
28	8	3/8	2 3/8		2 1/2	3/8	pbd 201 G3D
29	7	3/8	2 3/8		2 1/2	3/8	pac 201 G3D
30	12	4	4		2 1/2	3/4	hm 201 ^L G3D
31	6	3/8	2 3/8		2 1/2	3/8	pd G3D
32	14	4/4	4 3/4		2 3/8	3/8	hf ^L G3D
33	8	4/8	4 3/8		2 3/8	3/8	"
34	2	4/8	4 3/8		2 3/8	3/8	pg G3D
35	16	4/4	4 3/4		2 3/8	3/8	kg 201 G3D
36	9	4	4		2 1/2	3/4	pa 201 G3D
37	15	2 3/8	2 3/8		1 1/2	3/8	"
38	6	2 3/8	2 3/8		1 1/2	3/8	hb G4D to Girder G4D
39	12	4/8	4 3/8		2 1/2	3/8	"
40	2	4/8	4 3/8		2 1/2	3/8	Field Rivets Bot Flg G1D, G4D
41	24	4/4	4 3/4		2 3/8	3/8	Field Rivets Bot Flg G2D
42	12	4	4		2 1/2	3/4	Field Rivets Bot Flg G3D
43	12	4/4	4 3/4		2 3/8	3/8	Field Rivets Top Flg G1D, G4D
44	28	2 3/8	2 3/8		1 1/2	3/8	"
45	4	3/8	2 3/8		1 1/2	3/8	"
46	4	3/8	2 3/8		1 1/2	3/8	"

ERECTORS LIST
FIELD RIVETS AND BOLTS
AMERICAN BRIDGE

LINE NO.	NO. PCS.	DIAM.	RIVETS	BOLTS	GRIP	THICKNESS OF MATERIAL CONNECTED	LOCATION
1							PLATES TO G2E
2	6	3/8	2 3/8		1 1/2	3/8	pa 101 G2E
3	8	3/8	2 3/8		1 1/2	3/8	pt 101 G2E
4	7	3/8	2 3/8		1 1/2	3/8	pd 101 G2E
5	11	3/4	3 3/4		1 1/2	3/8	"
6	8	3/4	3 3/4		1 1/2	3/8	ph 101 G2E
7	8	3/4	3 3/4		1 1/2	3/8	pp 101 G2E
8	5	3/4	3 3/4		1 1/2	3/8	py 101 G2E
9	3	3/8	2 3/8		2 1/2	3/8	"
10	6	3/8	2 3/8		1 1/2	3/8	hb 101 ^L G2E
11	13	3/4	3 3/4		1 1/2	3/8	pf G2E
12	6	3/4	3 3/4		2	3/8	hp 101 ^L G2E
13	2	4/4	4 3/4		3 1/2	3/4	"
14	10	3/4	3 3/4		2	3/8	hh 101 ^R G2E
15	2	4/4	4 3/4		3 1/2	3/4	"
16	12	3/4	3 3/4		1 1/2	3/8	ph G2E
17	6	3/8	2 3/8		2 1/2	3/8	hm 101 ^L G2E
18	9	3/4	3 3/4		1 1/2	3/8	kg 101 G2E
19							PLATES TO G3E
20	6	2 3/8	2 3/8		1 1/2	3/8	pa 101 G3E
21	8	2 3/8	2 3/8		1 1/2	3/8	pe 101 G3E
22	7	3/8	2 3/8		1 1/2	3/8	pd 101 G3E
23	11	3/4	3 3/4		1 1/2	3/8	"
24	8	3/4	3 3/4		1 1/2	3/8	pk 101 G3E
25	8	3/4	3 3/4		1 1/2	3/8	pm 101 G3E
26	8	3/8	2 3/8		2 1/2	3/8	pb 101 ^R G3E
27	6	3/8	2 3/8		1 1/2	3/8	hb 101 ^R G3E
28	5	3/8	2 3/8		1 1/2	3/8	pb G3E
29	7	3/4	3 3/4		1 1/2	3/8	"
30	6	3/4	3 3/4		2	3/8	hp 101 ^R G3E
31	2	4/4	4 3/4		3 1/2	3/4	"
32	10	3/4	3 3/4		2	3/8	hh 101 ^L G3E
33	2	4/4	4 3/4		3 1/2	3/4	"
34	12	3/8	2 3/8		1 1/2	3/8	pk G3E
35	6	3/8	2 3/8		2 1/2	3/8	hm 101 ^R G3E
36	9	3/4	3 3/4		1 1/2	3/8	kg 101 G3E
37	18	2 3/8	2 3/8		1 1/2	3/8	pa 101 G3E
38	6	2 3/8	2 3/8		1 1/2	3/8	"
39	36	3/4	3 3/4		1 1/2	3/8	Field Rivets Bot Flg G1E, G3E, G4E
40	6	3/4	3 3/4		1 1/2	3/8	Field Rivets Bot Flg G2E
41	32	2 3/8	2 3/8		1 1/2	3/8	Field Rivets Top Flg All Girders
42	64	3/4	3 3/4		1 1/2	3/8	"
43	16	3/4	3 3/4		1 1/2	3/8	"

FIELD RIVETS AND BOLTS
DIV 3 - LATERAL PLATES TO GIRDERS
BANGOR-BREWER BRIDGE
BANGOR, MAINE

NAME: FEL
DATE: 11/10/00
DRAWINGS: TRENTON FABRICATION
IN CHARGE OF MARKS: AMBRIDGE Q4150
SHEET No.: EF302

ERECTORS LIST
FIELD RIVETS AND BOLTS
AMERICAN BRIDGE

LINE NO.	NO. PCS.	DIAM.	RIVETS	BOLTS	GRIP	THICKNESS OF MATERIAL CONNECTED	LOCATION
1							Washer
2							
3	8	3/8	2 3/8		1 1/2	3/8	EDS to BRGE to CFIE
4	64	3/8	2 3/8		1 1/2	3/8	" " CFIE
5							
6							
7							
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46							

FIELD RIVETS AND BOLTS
DARDELET RIVET BOLTS - DIV. 3
BANGOR-BREWER BRIDGE
PENOBSCOT RIVER, ME

NAME: EBM
DATE: 11/10/00
DRAWINGS: TRENTON FABRICATION
IN CHARGE OF MARKS: AMBRIDGE Q4150
SHEET No.: EF301

ERECTORS LIST
FIELD RIVETS AND BOLTS
ERICAN BRID.
DIVISION
UNITED STATES STEEL COMPANY

LINE NO.	NO. PCS.	DIAM.	RIVETS	BOLTS	GRIP	THICKNESS OF MATERIAL CONNECTED	LOCATION
			LENGTH UNDER HEAD	HEAD NUT WASH-ER TYPE OF BOLT			
1							PLATES TO GIRDER G2C
2	12	3/8	2 3/4		1 3/8	3/16	pk G2C
3	16	4/8	4 2		2 3/4	3/8	pg G2C
4	2	4/8	2 3/4		2 3/4	3/8	pn G2C
5	12	4/8	4 8		2 5/8	3/8	"
6	18	4/8	4 8		2 7/8	3/8	pp G2C
7	6	4/8	4 8		2 7/8	3/8	pba G2C
8							PLATES TO GIRDER G3C
9	24	2 3/4			1 3/8	3/16	pc G3C
10	12	2 3/4			1 3/8	3/16	pk G3C
11	16	3 3/8			1 1/2	3/8	ph G3C
12	2	4/8	2 3/4		2 3/4	3/8	pn G3C
13	12	4/8	4 8		2 5/8	3/8	"
14	16	4/8	4 8		2 7/8	3/8	pw G3C
15	12	4/8	4 8		2 7/8	3/8	pba G3C
16	9	2 8			3/8	5/16	pbf G3C
17	12	2 8			3/8	5/16	pca 101 G3C
18							
19	40	3 7/8			2 3/8	3/8	Field Rivets Flgs G1C, G4C
20	16	4 3/8			2 7/8	3/8	"
21	32	3 3/8			1 2	3/8	"
22	40	3 3/8			2 3/8	3/8	Field Rivets Flgs G2C, G4C
23	16	4 4			2 7/8	3/8	"
24	32	3 3/8			1 2	3/8	"
25							
26							
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ERECTORS LIST
FIELD RIVETS AND BOLTS
ERICAN BRID.
DIVISION
UNITED STATES STEEL COMPANY

LINE NO.	NO. PCS.	DIAM.	RIVETS	BOLTS	GRIP	THICKNESS OF MATERIAL CONNECTED	LOCATION
			LENGTH UNDER HEAD	HEAD NUT WASH-ER TYPE OF BOLT			
1							
2	10	3/8	4 4		2 2	3/8	Subk. conn. L to Gir.
3	80	3/8	3 4		1 8	3/8	" " " "
4	40	3/8	4 8		2 1/2	3/8	" Brkt. to Gir. Flg
5	12	3/8	2 2		1 1/2	3/8	" Struts " " "
6	36	3/8	3 8		1 1/2	3/8	" " " " "
7	12	3/8	4 8		2 3/8	3/8	" " " " "
8	180	3/8	2 8		1 8	3/8	" Brkts " Gir. Stiff
9							
10	144	3/8	2 8		3/8	5/16	D18 to Gir
11	192	3/8	2 8		1 1/2	5/16	D19 " "
12							
13							
14	190	3/8	2 8		1 1/2	5/16	Cr. Frs. to Gir. Flg
15	60	3/8	2 2		1 1/2	5/16	" " " Subk Brkt
16	130	3/8	2 4		1 1/2	5/16	" " " Gir. Stiff (Ext. Gir.)
17	180	3/8	2 8		5/8	5/16	" " " " (14+ Girs)
18							
19	16	3/8	2 4		3/4	3/8	Ladder to Gir
20							
21							
22							
23							
24							
25	20	3/4		2 3/8 Hex Hex Bev. Ordinary	1 3/4	5/8	Fascia to Subk Brkt.
26							
27							
28							
29							
30	32	3/8	3 3/8		2 1/2	5/8	G1C, G4C
31	32	3/8	3 3/8		2	5/8	G2C, G3C
32							
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ERECTORS LIST
FIELD RIVETS AND BOLTS
AMERICAN BRIDGE
DIVISION
UNITED STATES STEEL COMPANY

LINE NO.	NO. PCS.	DIAM.	RIVETS	BOLTS	GRIP	THICKNESS OF MATERIAL CONNECTED	LOCATION
			LENGTH UNDER HEAD	HEAD NUT WASH-ER TYPE OF BOLT			
1	8	3/8	3 3/4		2	3/8	Field Rivets Top Flg G1D, G4D
2	16	4/8	4 4		2 1/2	3/8	"
3	28	2 3/4			1 1/2	3/8	Field Rivets Top Flg G2D, G3D
4	4	3 3/8			1 8	3/8	"
5	4	2 3/8			1 5/8	3/8	"
6	8	3 1/2			1 3/4	3/8	"
7	16	4			2 1/2	3/8	"
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