



2 REQ'D ~ Mk. M86A

LIFTING WEIGHT
?
lbs

- NO EXCEPTION TAKEN
- REJECTED
- MAKE CORRECTIONS NOTED
- REVISE AND RESUBMIT
- SUBMIT SPECIFIED ITEM

CHECKING IS ONLY FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. ANY ACTION SHOWN IS SUBJECT TO THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS WHICH SHALL BE CONFIRMED AND CORRELATED AT THE JOB SITE; FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION; COORDINATION OF HIS WORK WITH THAT OF ALL OTHER TRADES AND THE SATISFACTORY PERFORMANCE OF THE WORK.

DATE 5/9/12 BY PKR/1N

BILL OF MATERIALS									
SHOP BILL								MATERIAL ASTM A709-50 T2 U.N.O.	
LINE	SEQ	SHIPPING PCS	ASSEMBLY PCS	MARK	SHAPE	DESCRIPTION	LENGTH		REMARKS
							ft	in	
1									
2				M86A	W	14 x 30	11	2 3/4	
3									
4		2		x80c	L	4 x 3 1/2 x 3/8	2	4 3/4	
5		2		x80d	L	4 x 3 1/2 x 3/8	2	4 3/4	
6									
7		4		x82a	L	3 1/2 x 3 x 3/8	1	1	
8									
9		2		x81a	L	6 x 3 1/2 x 3/8	1	0 9/16	DRILLED
10		2		x81b	L	6 x 3 1/2 x 3/8	1	0 9/16	DRILLED
11									
12		2		x87g	PL	3/8 x 15 3/4	1	6 1/2	
13									
14		2		x90c	PL	1/8 x 3	11	1/4	ASM A1011
15		2		x90d	PL	1/8 x 5 5/8	1	0 9/16	ASM A1011
16									
17		16		sb7-225	BOLT	7/8 #	2	1/4	1wd/2we A325
18		42		sb7-275	BOLT	7/8 #	2	3/4	1wd/2we A325
19									XXX lbs
20									

ALL HOLES TO BE PUNCHED U.N.O.

143 185.798  
118.625

PAINT NOTES:

- ALL ITEMS THIS SHEET TO RECEIVE UPPER STEEL PAINT SYSTEM PER GN1.
- CLEAN AND PRIME BOLTED PARTS PRIOR TO ASSEMBLY.
- PRIMER ONLY, WITHIN 3" FROM ALL OPEN HOLES, (A307) SHIPPING BOLTS AND NUTS OR TO NEAREST EDGE OR PERPENDICULAR SURFACE (WHICHEVER IS LESS) UNLESS SPECIFICALLY NOTED OTHERWISE.
- ALL TORQUED BOLTS TO RECEIVE COMPLETE PAINT SYSTEM NOTED. NO PAINT ON (A307) SHIPPING BOLTS AND NUTS.

NOTES:

- FOR GENERAL NOTES SEE DRAWING GN1.
- ALL BOLTS THIS SHEET TO BE FULLY TORQUED UNLESS NOTED AS (A307) SHIPPING BOLTS.
- INSTALL WASHER UNDER HEAD OF BOLT AS WELL AS NUT. ADDITIONAL WASHER IS NOT REQUIRED FOR (A307) SHIPPING BOLTS.
- ALL HOLES MARKED "X" OR "X" ARE TO BE FIELD DRILLED HOLES. DO NOT SHOP DRILL.

LEGEND:

- C = CENTERLINE
- CTR'D = CENTERED
- C/C = CENTER TO CENTER
- FLG = FLANGE
- TOP = TOP
- BTM = BOTTOM
- RDFH = RUNNING DIMENSIONS FROM HERE
- F/BOLTS = FIELD BOLTS (QUANTITY) DIAMETER x LENGTH
- ◇ = ALTERNATE HOLE DIAMETER
- TYP = TYPICAL
- N/S = NEAR SIDE
- F/S = FAR SIDE
- B/S = BOTH SIDES
- BTS = BOLT TO SHIP
- SHPG BOLT = SHIPPING BOLT
- ◇ = SHIPPING BOLT
- D.O.R. = DIRECTION OF ROLL
- T2 = CHARPY V-NOTCH TESTING REQUIRED
- F2 = FRACTURE CRITICAL MATERIAL
- X = FIELD DRILLED HOLE
- X = FIELD DRILLED HOLE

ALL DIMENSIONS HAVE BEEN FIELD VERIFIED  
BY: \_\_\_\_\_ DATE: \_\_\_\_\_

A	04/25/12	RC	FOR APPROVAL
NO.	DATE	BY	REVISION
<b>STS STEEL, INC.</b> ENGINEERS • FABRICATORS • ERECTORS PH: (518) 370-2693 FAX: (518) 370-2696			
DRAWING TITLE			
UPPER STEEL (SWAY FRAMES @ U8 & U10)			
PROJECT No. US RT 2 BRIDGE No 24 FEDERAL AID No.			
ENGINEER: CHA			
CUSTOMER: Harrison & Burrowes Bridge Constructors, Inc.			
PROJECT: RICHMOND, VT - TRUSS BRIDGE REHAB			
RICHMOND, VT			
HOLES:	15/16" U.N.O.	PAINT:	PER SPEC DATE: 04/12/12
BOLTS:	A325 U.N.O.	DRBY:	PG JOB NO. 1156
WELDS:	AWS D1.5	CHKBY:	SG DWG NO. 86