



BILL OF MATERIALS										
SHOP BILL						MATERIAL ASTM A709-50 T2 U.N.O.				
LINE	SEQ	SHIPPING	MARK	SHAPE	DESCRIPTION	LENGTH	REMARKS	MATL GRADE	WEIGHT	HEAT NO
		ASSEMBLY				ft	in			
1										
2	ONE		M26A		ASSEMBLY					
3	ONE		x32a	C	12 x 20.7	12	5 1/2			
4	ONE		x32c	C	12 x 20.7	12	5 1/2			
5										
6	ONE		x20b	L	5 x3 1/2 x 3/8	1	10			
7	ONE		x20f	L	5 x3 1/2 x 3/8	4	0 1/4			
8	ONE		x20g	L	5 x3 1/2 x 3/8	4	0 1/4			
9										
10	ONE		x23c	PL	3/8 x 9 1/2	4	0 1/4			
11	ONE		x23d	PL	3/8 x 9 1/2	4	0 1/4			
12	2		x24c	PL	3/8 x 22 3/8	4	0 1/4			
13	ONE		x25b	PL	3/8 x 22	2	2 3/4			
14	ONE		x25c	PL	3/8 x 22	1	10 5/8			
15	2		x25d	PL	3/8 x 22	2	5 1/2			
16	ONE		x27b	PL	3/8 x 21 3/4	5	7 11/16			
17	ONE		x28b	PL	3/8 x 21 1/4	4	10 3/4			
18	ONE		x29b	PL	3/8 x 49 1/4	5	6 1/4			
19	ONE		x30b	PL	3/8 x 49 1/4	4	10 7/16			
20										
21	4		x25a	PL	5/8 x 26 3/4	2	10			
22										
23	24		sb7-225	BOLT	7/8 #	2	1/4			A325
24	5		sb7-275	BOLT	7/8 #	2	3/4			A325
25	15		sb7-25	BOLT	7/8 #	2	1/2			A325
26	48		sb7-275	BOLT	7/8 #	2	3/4			A325
27	8		jb7-2	BOLT	7/8 #	2				A307
28	8		jb7-225	BOLT	7/8 #	2	1/4			A307
29	4		jb7-275	BOLT	7/8 #	2	3/4			A307
30										

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 4/12/12 BY CHA/d

**PAINT NOTES:**  
 1. ALL ITEMS THIS SHEET TO RECEIVE UPPER STEEL PAINT SYSTEM PER GN1.  
 2. CLEAN AND PRIME BOLTED PARTS PRIOR TO ASSEMBLY.  
 3. 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.  
 4. ALL TORQUED BOLTS TO RECEIVE COMPLETE PAINT SYSTEM NOTED. NO PAINT ON (A307) SHIPPING BOLTS AND NUTS.

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

ALL HOLES TO BE PUNCHED U.N.O.  
 ALL CHANNEL FLANGES TO BE DRILLED TYP.

- LEGEND:**
- CL = CENTERLINE
  - CTR'D = CENTERED
  - C/C = CENTER TO CENTER
  - FLG = FLANGE
  - TOP = TOP
  - BTM = BOTTOM
  - ROFH = RUNNING DIMENSIONS FROM HERE
  - F/S = 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
  - △ SHP'G 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
  - ⊗ = FIELD DRILLED HOLE

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

NO.	DATE	BY	REVISION
1	04/04/12	PG	REVISED TO SUBMIT BATTERY BOLT SPACING CHANGE AND BOLTS REVISED TO A325 BLACK. ISSUED FOR FINAL APPROVAL.
C	03/16/12	RC	HOLE DELETED TO MATCH CONTRACT DRAWINGS
B	03/15/12	RC	NOTES UPDATED AND BOLTS REVISED TO A325 GALV
A	03/02/12	RC	FOR APPROVAL

**STS STEEL, INC.**  
 ENGINEERS • FABRICATORS • ERECTORS  
 PH: (518) 370-2693 FAX: (518) 370-2696

DRAWING TITLE  
**UPPER STEEL (TS1)**

PROJECT No. US RT 2 BRIDGE No 24 FEDERAL AID No. \_\_\_\_\_  
 ENGINEER: CHA  
 CUSTOMER: Harrison & Burrows Bridge Constructors, Inc.  
 PROJECT: RICHMOND, VT - TRUSS BRIDGE REHAB  
 RICHMOND, VT

HOLES: 15/16" U.N.O. PAINT: PER SPEC DATE: 03/01/12  
 BOLTS: A325 U.N.O. DR. BY: RC JOB NO. 1156  
 WELDS: AWS D1.5 CHK. BY: BH DWG NO. 26