

**BILL OF MATERIALS**

SHOP BILL										MATERIAL ASTM A709-50 T2 U.N.O.			
LINE	SEQ	SHIPPING PCS	ASSURRY PCS	MARK	SHAPE	DESCRIPTION	LENGTH		REMARKS	MATERIAL GRADE	MATERIAL REMARK	WEIGHT	HEAT NO
							ft	in					
1													
2	ONE			M48A	W	16 x 45	16	4 7/8					
3													
4	4			x35b	L	5 x 3 1/2 x 3/8	1	1					
5													
6	ONE			x42d	PL	3/8 x 21	1	9 1/4					
7													
8	10			sb7-225	BOLT	7/8 #	2	1/4	1wd/2we	A325			
9	8			sb7-275	BOLT	7/8 #	2	3/4	1wd/2we	A325			
10													
11													
12													
13	ONE			M48B	W	16 x 45	16	4 7/8					
14													
15	4			x35b	L	5 x 3 1/2 x 3/8	1	1					
16													
17	ONE			x42d	PL	3/8 x 21	1	9 1/4					
18													
19	10			sb7-225	BOLT	7/8 #	2	1/4	1wd/2we	A325			
20	8			sb7-275	BOLT	7/8 #	2	3/4	1wd/2we	A325			
21													
22													
23													

ALL HOLES TO BE PUNCHED U.N.O.

**LEGEND:**

- ⊕ = CENTERLINE
- CTR'D = CENTERED
- C/C = CENTER TO CENTER
- FLG = FLANGE
- TOP = TOP
- BTM = BOTTOM
- RDFH = RUNNING DIMENSIONS FROM HERE
- 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
- ⊕ = FIELD DRILLED HOLE
- ⊕ = FIELD DRILLED HOLE


**PAINT NOTES:**

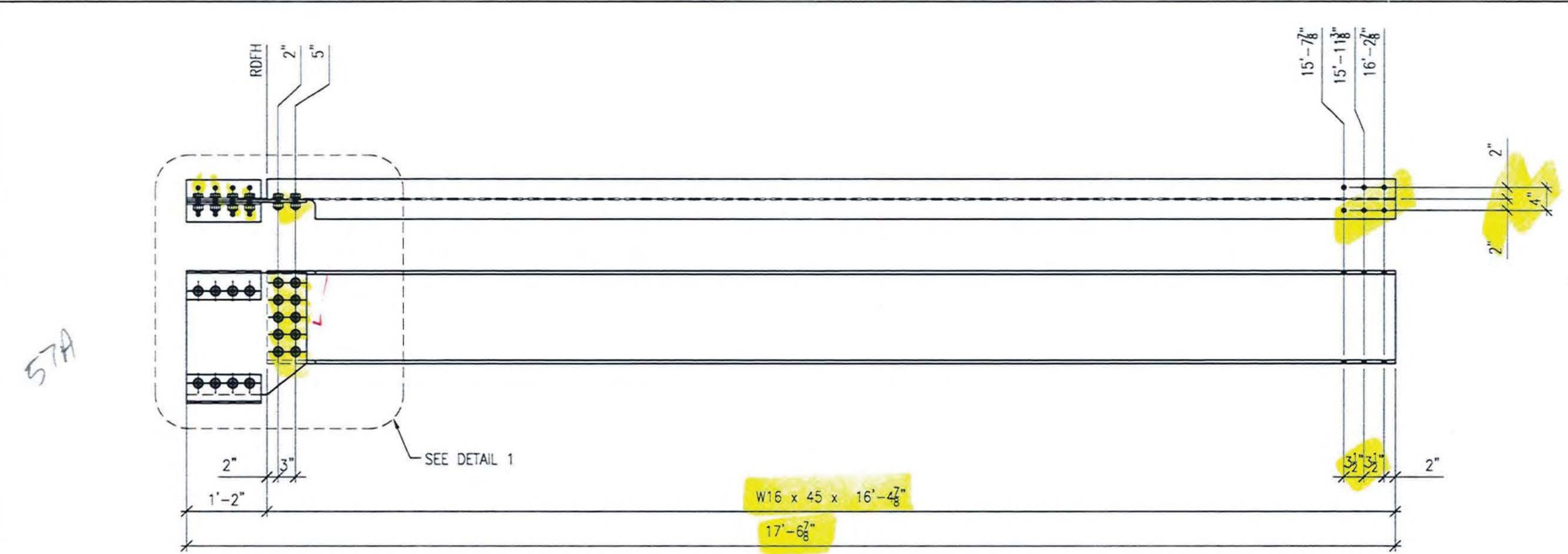
- ALL ITEMS THIS SHEET TO RECEIVE UPPER STEEL PAINT SYSTEM PER GN1.
- CLEAN AND PRIME BOLTED PARTS PRIOR TO ASSEMBLY.
- PRIMER ONLY, WITHIN 3" FROM ALL OPEN HOLES, (A307) SHIPPING BOLTS AND NUTS OR TO NEAREST EDGE OR PERPENDICULAR SURFACE (WHICHEVER IS LESS) UNLESS SPECIFICALLY NOTED OTHERWISE.
- ALL 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 "⊕" OR "⊕" ARE TO BE FIELD DRILLED HOLES. DO NOT SHOP DRILL.

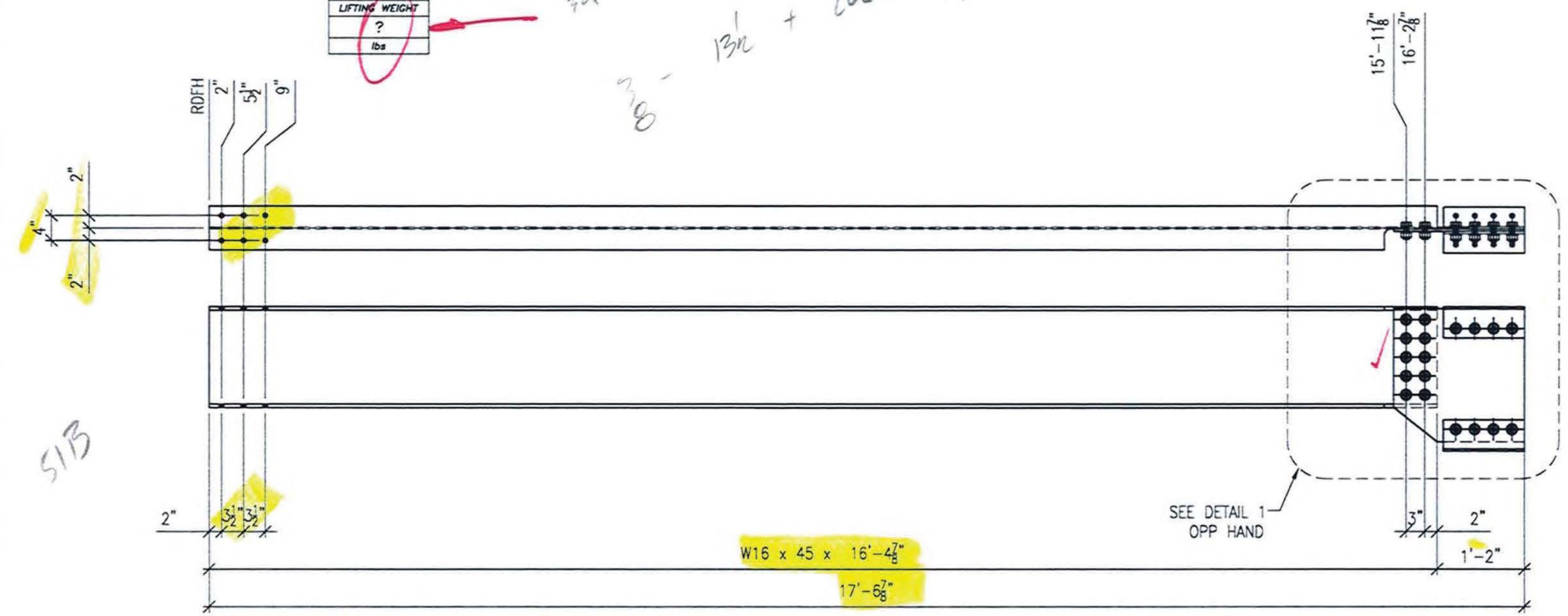
ALL DIMENSIONS HAVE BEEN FIELD VERIFIED  
BY: \_\_\_\_\_ DATE: \_\_\_\_\_

A	04/20/12	RC	FOR APPROVAL	REVISION
NO.	DATE	BY		
 <b>STS STEEL, INC.</b> ENGINEERS • FABRICATORS • ERECTORS PH: (518) 370-2693 FAX: (518) 370-2696				
DRAWING TITLE <b>UPPER STEEL (U8-U10)</b>				
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				
HOLE:	15/16" U.N.O.	PAINT:	PER SPEC	DATE: 03/16/12
BOLTS:	A325 U.N.O.	DRBY:	RC	JOB NO. 1156
WELDS:	AWS D1.5	CHKBY:	SG	DWG NO. 48



ONE REQ'D ~ Mk. M48A  
 LIFTING WEIGHT ? lbs  
 15' x 10' + 10  
 13 1/2' + 206'8" + 10'9" + 3'

2339 ✓  
 19'-5 3/4"



ONE REQ'D ~ Mk. M48B  
 LIFTING WEIGHT ? lbs  
 4 - sb7-24"  
 x35b B/S  
 x42d N/S  
 4 - sb7-24"  
 x35b B/S  
 10 - sb7-24"

- 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 CHA PKR /dl

OVER ALL DEPTH OF TRUSS  
 1'-11 1/8" THE ORIGINAL DETAILS  
 HAD 1/4" OF ERECTION CLEARANCE

