



END PORTAL PLAN TOP VIEW  
AT U2

ASTM A325 TYPE 1 FIELD BOLT LIST ~ 7/8" BOLTS					
REV. LINE	QUANTITY	DIA.	LENGTH	REMARKS	WEIGHT
1					
2	80	7/8	2 1/2"	C/W NUT & 2 WA	
3					
4					
5					
6					
7					
8					
9					
10					

ALL QUANTITIES ARE EXACT - ADD 5 % AND 10 TO EACH LENGTH

- NO EXCEPTION TAKEN
- MAKE CORRECTIONS NOTED
- REJECTED
- 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 4/12/2012 BY CHA

**LEGEND:**

- CL = CENTERLINE
- CTR'D = CENTERED
- C/C = CENTER TO CENTER
- FLG = FLANGE
- TOP = TOP
- BTM = BOTTOM
- RDFH = RUNNING DIMENSIONS FROM HERE
- FIELD BOLTS = FIELD BOLTS (QUANTITY) DIAMETER x LENGTH
- ALTERNATE HOLE DIAMETER = ALTERNATE HOLE DIAMETER
- TYP = TYPICAL
- N/S = NEAR SIDE
- F/S = FAR SIDE
- B/S = BOTH SIDES
- BTS = BOLT TO SHIP
- SHIP'G BOLT = SHIPPING 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
- FIELD DRILLED HOLE = FIELD DRILLED HOLE

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

**NOTES:**

- FOR GENERAL NOTES SEE DRAWING GN1.
- INSTALL WASHER UNDER HEAD OF BOLT AS WELL AS NUT.
- ALL HOLES MARKED "X" OR "X" ARE TO BE FIELD DRILLED HOLES.

NO.	DATE	BY	REVISION
1	04/05/12	PG	BOLTS REVISED TO A325 BLACK LEGEND UP DATED ISSUED FOR FINAL APPROVAL
B	03/15/12	RC	BOLTS REVISED TO A325 GALV
A	03/02/12	RC	FOR APPROVAL

**STS STEEL, INC.**  
ENGINEERS \* FABRICATORS \* ERECTORS  
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DRAWING TITLE  
**UPPERSTEEL PARTIAL PLAN (END PORTAL)**  
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

HOLS:	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.	E 6A