



Vermont Agency of Transportation  
**RECEIVED**  
 ON: **May 21, 2015**  
 and Checked for  
**CONFORMANCE**  
 BY: Jennifer Fitch DATE: 05/28/2015

TYPICAL RAILING ELEVATION  
 LOOKING AT FACE OF RAILING FROM CENTERLINE OF ROAD  
 BOTH SIDES TYPICAL

**BILL OF MATERIAL**

Qty	mk	Description	Spec.
20		BRIDGE RAILING POST W6 x 25 x 2'-2.375" OAH WITH 1 x 10 x 14 BASE PLATE (GLV)	A709 gr 50
6		SPLICE TUBE (FOR 8X4 RAIL) HSS 7 x 3 x 3/8 x 1'-8.000" OAL w/ TAPPED HOLES & 2 WELDED NUTS (GLV)	A500 gr B
6		SPLICE TUBE (FOR 4X4 RAIL) HSS 3 x 3 x 5/16 x 1'-8.000" OAL w/ TAPPED HOLES & 2 WELDED NUTS (GLV)	A500 gr B
2	C1	UPPER RAIL TUBE HSS 8 X 4 X 5/16 X 15'-0.000" OAL (1 end fix splice, 1 end exp splice)	A500 gr B
4	C2	UPPER RAIL TUBE HSS 8 X 4 X 5/16 X 22'-2.500" OAL (fix splice both ends)	A500 gr B
2	C3	UPPER RAIL TUBE HSS 8 X 4 X 5/16 X 10'-7.250" OAL (1 end fix splice, 1 end exp splice)	A500 gr B
2	C1	LOWER RAIL TUBE HSS 4 X 4 X 1/4 X 15'-0.000" OAL (1 end fix splice, 1 end exp splice)	A500 gr B
4	C2	LOWER RAIL TUBE HSS 4 X 4 X 1/4 X 22'-2.500" OAL (fix splice both ends)	A500 gr B
2	C3	LOWER RAIL TUBE HSS 4 X 4 X 1/4 X 10'-7.250" OAL (1 end fix splice, 1 end exp splice)	A500 gr B
20		ANCHOR SPACER PLATE PL 0.375 x 13.000 x 9.375	A709 gr 36
80		ANCHOR STUD DBL END PART THREAD - 1" DIA x 12.000 w/ 2.250" THD EACH END (GLV)	A449
160		HEAVY HEX NUT 1" (GLV)	A563 DH
80		ROUND WASHER (SAE) - 1" DIA SMALL (GLV)	F436
80		JAM NUT 1" (GALV)	A563 DH
80		ROUND HEAD POST BOLT slot or wrench head - no shoulder 3/4" DIA x 6" LG. FULL BODY (GLV)	A449 / A325
80		LOCK NUT 3/4" (GLV)	A563 DH
80		ROUND WASHER (SAE) 3/4" (GLV)	F436
48		HEX HEAD BOLT 5/8" DIA x 1.75" LG. (GLV)	A325
48		ROUND WASHER (SAE) 5/8" (GLV)	F436
20		BEARING PAD 0.125" THICK x 10.000 x 14.000 (NEOPRENE 80 duro +/-10)	aashto M251

A

### SHOP DRAWING REVIEW

REVIEWED AS REQUIRED BY THE CONSTRUCTION CONTRACT DOCUMENTS AND APPROVED, BUT ONLY FOR CONFORMANCE TO THE DESIGN CONCEPT OF THE WORK, AND SUBJECT TO FURTHER LIMITATIONS AND REQUIREMENTS CONTAINED IN THE CONSTRUCTION CONTRACT DOCUMENTS.

REJECTED     
  REVISE AND RESUBMIT     
  FURNISH AS CORRECTED

CORRECTIONS OR COMMENTS MADE ON THE SHOP DRAWINGS DURING THIS REVIEW DO NOT RELIEVE CONTRACTOR FROM COMPLIANCE WITH REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS. THIS CHECK IS ONLY FOR REVIEW OF GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR: CONFIRMING AND CORRELATING ALL QUANTITIES AND DIMENSIONS; SELECTING FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION; COORDINATING HIS WORK WITH THAT OF ALL OTHER TRADES; AND PERFORMING HIS WORK IN A SAFE AND SATISFACTORY MANNER.

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**Job Number:** BRF 015-2(10)  
**Reviewed By:** S Farnsworth  
**Date:** May 26, 2015

No.	Remarks	Date
A	miscellaneous corrections	5/20/15
0	initial submittal	5/5/15

**HIGHWAY SAFETY CORP**  
 GLASTONBURY, CT  
 860-633-9445

ITEM 525.33 BRIDGE RAILING, GALVANIZED 2 RAIL BOX BEAM (S-3604)  
 ITEM 621.72 GUARDRAIL APPROACH SECTION, GALVANIZED 2 RAIL BOX BEAM (S-3605)  
 BRF 015-2(10)  
 VT ROUTE 30 - BRIDGE 93  
 TOWN OF CASTLETON, RUTLAND COUNTY VT

**CERTIFIED FABRICATOR**

GEN. CONTRACTOR: LAFAYETTE  
 SHEET NO: 2043  
 1 of 4

DATE: 05-05-15