



**ELEVATION - NORTH BRIDGE RAIL**  
**FACING NORTH FROM CENTER OF ROADWAY**  
**BRIDGE No. 43S**

PAY LENGTH = 223'-5" (THIS SHEET)  
 TOTAL PAY LIMIT ITEM 525.33 (STEEL BRIDGE RAIL, NETC 2-RAIL) = 3730 LF

BILL OF MATERIAL				
Mk.	Qty.	Description	Material	Total wt.
	31	RAIL POST W6x25 WITH BASE PLATE		2883 lbs.
*	31	ANCHORAGE ASSEMBLY WITH PLATE (4) ANCHOR STUDS & HARDWARE *		837 lbs.
△	10	UPPER RAIL SPLICE TUBE 7x3x3/8 (1'-8" OAL)		355.5 lbs.
△	10	LOWER RAIL SPLICE TUBE 3x3x5/16 (1'-8" OAL)		166.5 lbs.
	31	1/8" THICK BEARING PAD		15.5 lbs.
	124	3/4" DIA x 6" LG. ROUND-SLOTTED HEAD BOLT WITH WASHER & LOCKWASHER		106.64 lbs.
△	80	5/8" DIA x 1 3/4" HEX HEAD BOLT WITH HARDENED WASHER		20.16 lbs.
△	8	3/4" SCH 40 SPACER PIPE x 1/2" LONG		1.68 lbs.
△	-87M	1 RAIL TUBE (UPPER) 8x4x5/16 18'-9" OAL		649.25 lbs.
△	-37M	6 RAIL TUBE (UPPER) 8x4x5/16 22'-6" OAL		1102.5 lbs.
△	-38M	1 RAIL TUBE (UPPER) 8x4x5/16 22'-6" (SLOTTED ONE END)		1102.5 lbs.
△	-77M	1 RAIL TUBE (UPPER) 8x4x5/16 22'-4 3/4" OAL		545.13 lbs.
△	-8M	1 RAIL TUBE (UPPER) 8x4x5/16 12'-1 3/8" (SLOTTED BOTH ENDS)		296.81 lbs.
△	-6M	1 RAIL TUBE (UPPER) 8x4x5/16 11'-9" OAL		287.88 lbs.
△	-87M	1 RAIL TUBE (LOWER) 4x4x1/4 18'-9" OAL		339.2 lbs.
△	-37M	6 RAIL TUBE (LOWER) 4x4x1/4 22'-6" OAL		576 lbs.
△	-38M	1 RAIL TUBE (LOWER) 4x4x1/4 22'-6" (SLOTTED ONE END)		576 lbs.
△	-77M	1 RAIL TUBE (LOWER) 4x4x1/4 22'-4 3/4" OAL		284.8 lbs.
△	-8M	1 RAIL TUBE (LOWER) 4x4x1/4 12'-1 3/8" (SLOTTED BOTH ENDS)		155.07 lbs.
△	-6M	1 RAIL TUBE (LOWER) 4x4x1/4 11'-9" OAL		150.4 lbs.

\* - ANCHORAGE ASSEMBLY BY OTHERS, NOT PROVIDED BY HIGHWAY SAFETY CORP. SHOWN FOR REFERENCE ONLY.

**TVGA**  
 Engineering, Surveying, P.E.

NO EXCEPTIONS TAKEN  REJECTED  
 FURNISH AS CORRECTED  
 REVISE AND RESUBMIT

ENGINEER has reviewed Shop Drawings and Samples and other data which Contractor is required to submit, only for conformance with the information given in the Contract Documents and compatibility with the design concept of the completed Project as a functioning whole as indicated in the Contract Documents. Such reviews do not extend to means, methods, techniques, sequences or procedures of construction or to safety precautions and programs incident thereto. Contractor is responsible for dimensions to be contained and controlled at the job site; for information that pertains solely to the fabrication processes or to techniques of construction; and for coordination of the work of all trades.

By: PT W. ST  
 DATE: 4/2/01

**CONSTRUCTION NOTE:**  
 END OF WINGWALLS HAVE BEEN LOCATED APPROXIMATELY BY VAOT SURVEY. CONTRACTOR SHALL VERIFY REQUIRED RAIL LENGTHS PRIOR TO APPROVAL.

**NOTES:**  
 1. ALL DIMENSIONS HAVE BEEN DEVELOPED FROM CONTRACT PLANS ONLY.  
 2. CONTRACTOR MUST FIELD-VERIFY DIMENSIONS PRIOR TO APPROVAL.

REVISIONS		
No.	Remarks	Date
0	Initial submittal	4/2/01
1	AS-BUILT REVISIONS	

**HIGHWAY SAFETY CORP.**  
 GLASTONBURY, CT

ITEM 525.33 - BRIDGE RAILING - NETC 2 RAIL  
 PROJECT No. IM-089-2(26)  
 TOWN OF MIDDLESEX & BOLTON  
 1-89 OVER U.S. 2  
 BRIDGE No. 43S

DRAWN: C.A. Leblanc  
 CHECKED: [Signature]  
 DATE: 03/30/01  
 SCALE: NONE  
 HSC REFERENCE NO.: 1237  
 GENERAL CONTRACTOR: WINTERSSET, INC.  
 SUB CONTRACTOR: F.R. LAFAYETTE, INC.

SIZE: D REVISION: 1  
 SHEET NO.: 2 of 17