



**ELEVATION - SOUTH BRIDGE RAIL**  
**FACING SOUTH FROM CENTER OF ROADWAY**  
**BRIDGE No. 50S**

PAY LENGTH = 244'-3" (THIS SHEET)  
 TOTAL PAY LIMIT ITEM 525.33 (STEEL BRIDGE RAIL, NETC 2--RAIL) = 3730 LF

BILL OF MATERIAL				
Mk.	Qty.	Description	Material	Total wgt.
	35	RAIL POST W6x25 WITH BASE PLATE		3255 lbs.
*	35	ANCHORAGE ASSEMBLY WITH PLATE (4) ANCHOR STUDS & HARDWARE *		945 lbs.
	10	UPPER RAIL SPLICE TUBE 7x3x3/8 (1'-8" OAL)		395 lbs.
	10	LOWER RAIL SPLICE TUBE 3x3x5/16 (1'-8" OAL)		185 lbs.
	35	1/8" THICK BEARING PAD		17.5 lbs.
	140	3/4" DIA x 6" LG. ROUND-SLOTTED HEAD BOLT WITH WASHER & LOCKWIT		120.4 lbs.
	80	5/8" DIA x 1 3/4" HEX HEAD BOLT WITH HARDENED WASHER		22.4 lbs.
	8	3/4" SCH 40 SPACER PIPE x 1/2" LONG		1.68 lbs.
-56M	1	RAIL TUBE (UPPER) 8x4x5/16 27'-3" OAL		667.63 lbs.
-52M	1	RAIL TUBE (UPPER) 8x4x5/16 26'-9" OAL		655.38 lbs.
-44M	2	RAIL TUBE (UPPER) 8x4x5/16 23'-6" OAL		1151.5 lbs.
-43M	1	RAIL TUBE (UPPER) 8x4x5/16 23'-0" (SLOTTED ONE END)		1127 lbs.
-42M	3	RAIL TUBE (UPPER) 8x4x5/16 23'-0" OAL		1124 lbs.
-28M	1	RAIL TUBE (UPPER) 8x4x5/16 19'-6" OAL		477.75 lbs.
-81M	1	RAIL TUBE (UPPER) 8x4x5/16 17'-10 1/2" OAL		453.25 lbs.
-12M	1	RAIL TUBE (UPPER) 8x4x5/16 12'-11 5/8" (SLOTTED BOTH ENDS)		317.74 lbs.
-56M	1	RAIL TUBE (LOWER) 4x4x1/4 27'-3" OAL		348.8 lbs.
-52M	1	RAIL TUBE (LOWER) 4x4x1/4 26'-9" OAL		342.4 lbs.
-44M	2	RAIL TUBE (LOWER) 4x4x1/4 23'-6" OAL		601.6 lbs.
-43M	1	RAIL TUBE (LOWER) 4x4x1/4 23'-0" (SLOTTED ONE END)		588.8 lbs.
-42M	3	RAIL TUBE (LOWER) 4x4x1/4 23'-0" OAL		587.7 lbs.
-28M	1	RAIL TUBE (LOWER) 4x4x1/4 19'-6" OAL		249.6 lbs.
-81M	1	RAIL TUBE (LOWER) 4x4x1/4 17'-10 1/2" OAL		236.8 lbs.
-12M	1	RAIL TUBE (LOWER) 4x4x1/4 12'-11 5/8" (SLOTTED BOTH ENDS)		166 lbs.

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

TUSA  
 Engineering, Surveying, P.C.  
 NO EXCEPTIONS TAKEN  REVISIONS  
 FURNISH AS CORRECTED  FURNISH AND RESUBMIT  
 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 review does 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 confirmed and correlated 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: Pat W. S.T.  
 DATE: 6/21/01

**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	

<b>HIGHWAY SAFETY CORP.</b> 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. 50S	DRAWN C.A. Leblanc CHECKED <u>Pat W. S.T.</u> DATE 03/30/01 SCALE NONE HSC REFERENCE NO. 1237 SIZE D REVISION <u>1</u> SHEET NO. 13 of 17
GENERAL CONTRACTOR WINTERSET, INC.	SUB CONTRACTOR F.R. LAFAYETTE, INC.