



ELEVATION - SOUTH BRIDGE RAIL
FACING SOUTH FROM CENTER OF ROADWAY
BRIDGE No. 48N

PAY LENGTH = 328'-10" (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.
	47	RAIL POST W6x25 WITH BASE PLATE		4371 lbs.
*	47	ANCHORAGE ASSEMBLY WITH PLATE (4) ANCHOR STUDS & HARDWARE *		1269 lbs.
Δ	15	UPPER RAIL SPLICE TUBE 7x3x3/8 (1'-8" OAL)		513.5 lbs.
Δ	15	LOWER RAIL SPLICE TUBE 3x3x5/16 (1'-8" OAL)		240.5 lbs.
	47	1/8" THICK BEARING PAD		23.5 lbs.
	188	3/4" DIA x 6" LG. ROUND-SLOTTED HEAD BOLT WITH WASHER & LOCKWIT		161.68 lbs.
Δ	120	5/8" DIA x 1 3/4" HEX HEAD BOLT WITH HARDENED WASHER		29.12 lbs.
	24	3/4" SCH 40 SPACER PIPE x 1/2" LONG		1.88 lbs.
Δ	-34M	11 RAIL TUBE (UPPER) 8x4x5/16 21'-9" OAL		5861.68 lbs.
Δ	-30M	1 RAIL TUBE (UPPER) 8x4x5/16 19'-8 3/8" (SLOTTED BOTH ENDS)		482.6 lbs.
Δ	-29M	1 RAIL TUBE (UPPER) 8x4x5/16 19'-7" (SLOTTED ONE END)		479.79 lbs.
Δ	-93M	1 RAIL TUBE (UPPER) 8x4x5/16 18'-10" OAL		461.42 lbs.
Δ	-27M	1 RAIL TUBE (UPPER) 8x4x5/16 18'-6" OAL		453.25 lbs.
Δ	-6M	1 RAIL TUBE (UPPER) 8x4x5/16 11'-9" OAL		287.88 lbs.
Δ	-34M	11 RAIL TUBE (LOWER) 4x4x1/4 21'-9" OAL		3062.4 lbs.
Δ	-30M	1 RAIL TUBE (LOWER) 4x4x1/4 19'-8 3/8" (SLOTTED BOTH ENDS)		252.13 lbs.
Δ	-29M	1 RAIL TUBE (LOWER) 4x4x1/4 19'-7" (SLOTTED ONE END)		288 lbs.
Δ	-93M	1 RAIL TUBE (LOWER) 4x4x1/4 18'-10" OAL		241.07 lbs.
Δ	-27M	1 RAIL TUBE (LOWER) 4x4x1/4 18'-6" OAL		236.8 lbs.
Δ	-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.C.

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 confirmed and corrected 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: MLL
 DATE: 02-05-2000

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	MISC. CORRECTIONS	1/25/02

HIGHWAY SAFETY CORP.
 GLASTONBURY, CT

ITEM 525.33 - BRIDGE RAILING - NETC 2 RAIL
 PROJECT No. IM-089-2(26)
 TOWN OF MIDDLESEX & BOLTON
 I-89 OVER LITTLE RIVER
 BRIDGE No. 48N

DRAWN: C.A. Leblanc
 CHECKED: Paul L.
 DATE: 03/30/01
 SCALE: NONE
 HSC REFERENCE NO.: 1237

GENERAL CONTRACTOR: WINTERSET, INC.
 SUB CONTRACTOR: F.R. LAFAYETTE, INC.

SIZE: D REVISION: Δ
 SHEET NO.: 7 of 17

607 BC-48N