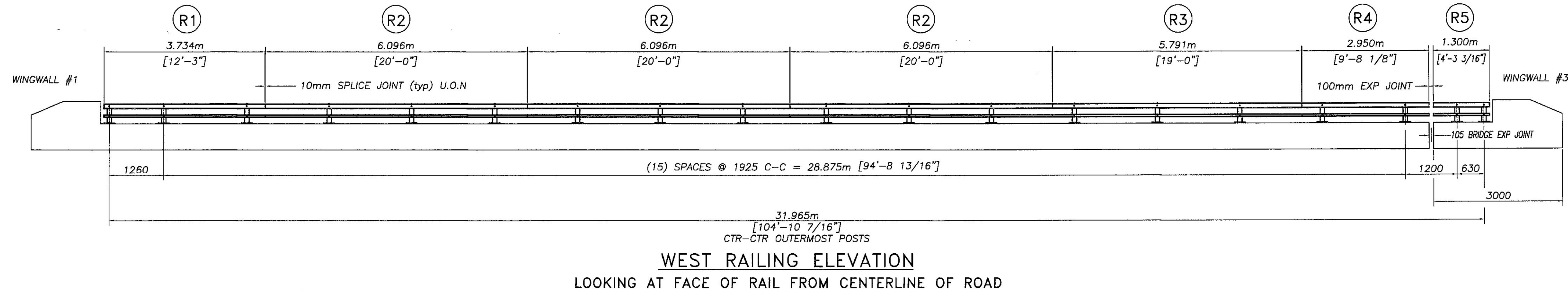
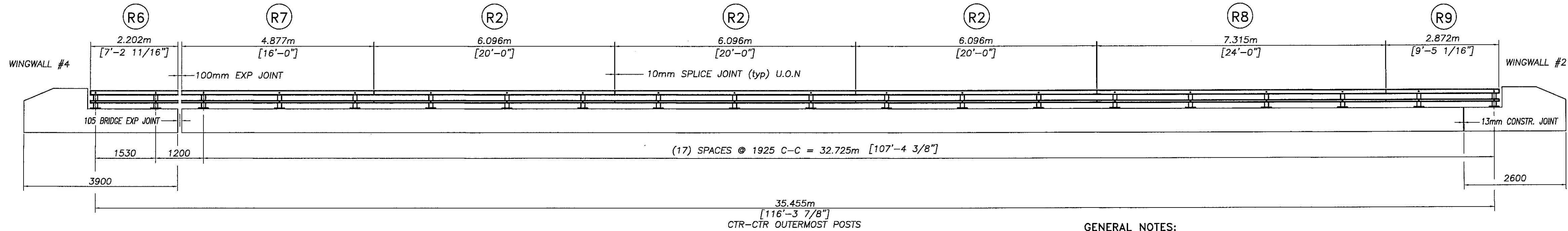


35.6m ± = LIMITS ITEM 900.640 SPECIAL PROVISION BRIDGE RAILING GALVANIZED STEEL TUBING / CONCRETE COMBINATION



WEST RAILING ELEVATION
LOOKING AT FACE OF RAIL FROM CENTERLINE OF ROAD

39.1m ± = LIMITS ITEM 900.640 SPECIAL PROVISION BRIDGE RAILING GALVANIZED STEEL TUBING / CONCRETE COMBINATION



EAST RAILING ELEVATION
LOOKING AT FACE OF RAIL FROM CENTERLINE OF ROAD

BILL OF MATERIAL

Qty	nk	Description	Spec.
39		BRIDGE RAILING POST HSS 100 x 100 x 6 x 429 LG 1.497m OAH INCLUDING BASE PLATE & CAP (GALV)	A572 gr 50
39		20 x 215 x 250 BRIDGE RAIL POST BASE PLATE	A36
39		8 x 90 x 90 BRIDGE RAIL POST TOP CAP PLATE	A36
12		UPPER RAIL SPLICE BAR 58 x 83 x 710 mm LG (GALV)	A572 gr 50
12		LOWER RAIL SPLICE BAR 40 x 40 x 710 mm LG (GALV)	A572 gr 50
1	R1	UPPER RAIL TUBE HSS 100 x 76 x 6 x 3.734m LG - SPLICE HOLES ONE END (GALV)	A500 gr B
6	R2	UPPER RAIL TUBE HSS 100 x 76 x 6 x 6.096m LG - SPLICE HOLES BOTH ENDS (GALV)	A500 gr B
1	R3	UPPER RAIL TUBE HSS 100 x 76 x 6 x 5.791m LG - SPLICE HOLES BOTH ENDS (GALV)	A500 gr B
1	R4	UPPER RAIL TUBE HSS 100 x 76 x 6 x 2.950m LG - 1 END SPLICE HOLES, 1 END EXP SLOTS (GALV)	A500 gr B
1	R5	UPPER RAIL TUBE HSS 100 x 76 x 6 x 1.300m LG - EXP SLOTS ONE END (GALV)	A500 gr B
1	R6	UPPER RAIL TUBE HSS 100 x 76 x 6 x 2.202m LG - EXP SLOTS ONE END (GALV)	A500 gr B
1	R7	UPPER RAIL TUBE HSS 100 x 76 x 6 x 4.877m LG - 1 END SPLICE HOLES, 1 END EXP SLOTS (GALV)	A500 gr B
1	R8	UPPER RAIL TUBE HSS 100 x 76 x 6 x 7.315m LG - SPLICE HOLES BOTH ENDS (GALV)	A500 gr B
1	R9	UPPER RAIL TUBE HSS 100 x 76 x 6 x 2.872m LG - SPLICE HOLES ONE END (GALV)	A500 gr B
4		END CAP PLATE 5 x 65 x 90 (WELDED TO NON SPLICE END OF UPPER RAIL TUBES R1, R5, R6 & R9)	A36
1	R1	LOWER RAIL TUBE HSS 50 x 50 x 3 x 3.734m LG - SPLICE HOLES ONE END (GALV)	A500 gr B
6	R2	LOWER RAIL TUBE HSS 50 x 50 x 3 x 6.096m LG - SPLICE HOLES BOTH ENDS (GALV)	A500 gr B
1	R3	LOWER RAIL TUBE HSS 50 x 50 x 3 x 5.791m LG - SPLICE HOLES BOTH ENDS (GALV)	A500 gr B
1	R4	LOWER RAIL TUBE HSS 50 x 50 x 3 x 2.950m LG - 1 END SPLICE HOLES, 1 END EXP SLOTS (GALV)	A500 gr B
1	R5	LOWER RAIL TUBE HSS 50 x 50 x 3 x 1.300m LG - EXP SLOTS ONE END (GALV)	A500 gr B
1	R6	LOWER RAIL TUBE HSS 50 x 50 x 3 x 2.202m LG - EXP SLOTS ONE END (GALV)	A500 gr B
1	R7	LOWER RAIL TUBE HSS 50 x 50 x 3 x 4.877m LG - 1 END SPLICE HOLES, 1 END EXP SLOTS (GALV)	A500 gr B
1	R8	LOWER RAIL TUBE HSS 50 x 50 x 3 x 7.315m LG - SPLICE HOLES BOTH ENDS (GALV)	A500 gr B
1	R9	LOWER RAIL TUBE HSS 50 x 50 x 3 x 2.872m LG - SPLICE HOLES ONE END (GALV)	A500 gr B
4		END CAP PLATE 5 x 45 x 45 (WELDED TO NON SPLICE END OF LOWER RAIL TUBES R1, R5, R6 & R9)	A36

- CONTINUED -

76	ANCHOR PLATE 10 x 80 x 183 (GALV)	A36
156	FULL THREAD ANCHOR STUD M16 x 380mm (GALV)	A449
316	HEX NUT M16 (GALV)	A563 DH
156	ROUND WASHER M16 (GALV)	F436
39	SLOTTED ROUND HEAD POST BOLT (NO SHOULDER) M20 x 228.6mm (GALV)	A449
39	LOCK NUT M20 (GALV)	A563 DH
39	ROUND WASHER M20 (GALV)	F436
39	SLOTTED ROUND HEAD POST BOLT (NO SHOULDER) M16 x 203.2mm (GALV)	A449
39	LOCK NUT M16 (GALV)	A563 DH
39	ROUND WASHER M16 (GALV)	F436
48	HEX HEAD BOLT M22 x 140mm (GALV)	A325
48	LOCK NUT M22 (GALV)	A563 DH
48	ROUND WASHER M22 (GALV)	F436
48	HEX HEAD BOLT M16 x 75mm (GALV)	A325
48	LOCK NUT M16 (GALV)	A563 DH
48	ROUND WASHER M16 (GALV)	F436
39	BEARING PAD 3mm THICK x 215 x 250 (NEOPRENE 80 duro +/-10)	aaasNo M251

GENERAL NOTES:

ALL MATERIAL GALVANIZED AFTER FABRICATION ASTM A123 / A153.

ALL WELDING AND FABRICATION SHALL BE PERFORMED PRIOR TO GALVANIZING.

GRIND ALL EDGES OF PLATES AND SHAPES TO MINIMUM 3mm RADIUS PRIOR TO GALVANIZING.

ALL POSTS SHALL BE SET NORMAL TO GRADE.

FOR RADII LESS THAN 290 METERS, HSS RAIL TUBES SHALL BE SHOP BENT TO MATCH APPLICABLE CURVE. RADIUS GREATER THAN 290 METERS WILL UTILIZE STRAIGHT TUBES WHICH WILL FLEX UNDER THEIR OWN WEIGHT IN EXCESS OF REQUIRED CURVATURE.

HOLES IN RAIL TUBES FOR ATTACHMENT TO POSTS SHALL BE FIELD DRILLED. FIELD DRILLED HOLES SHALL BE COATED WITH AN APPROVED ZINC RICH PAINT PRIOR TO BOLT INSTALLATION.

RAIL TUBES WILL MEET THE DROP WEIGHT TEAR TEST REQUIREMENTS OF ASTM E436 IN ACCORDANCE WITH VAOT STANDARD SPECIFICATION SUBSECTION 732.03

ALL DIMENSIONS ARE IN MILLIMETERS (mm) UNLESS NOTED OTHERWISE
ENGLISH DIMENSIONS ARE SHOWN IN [] FOR REFERENCE CONVENIENCE

PAYMENT LENGTH ITEM 900.640 = 75 meters

Vermont Agency of Transportation
RECEIVED
CK'D BY C.A.M. OK'D BY M.R.U.
Dec. 05, 2012
RESUBMIT APPROVED
BY J. LACROIX DATE 12-31-2012

HIGHWAY SAFETY CORP
GLASTONBURY, CT
860-633-9445
ITEM 900.640 SPECIAL PROVISION (BRIDGE RAILING, GALVANIZED, STEEL TUBING/CONCRETE COMBINATION)
ROUTE No. TH 2 / BRIDGE #32
TOWN OR READSBORO, COUNTY OF BENNINGTON
BRF 0105 (3)
GENERAL CONTRACTOR: LAFAYETTE
SUB CONTRACTOR: LAFAYETTE
DRAWN: PAR
CHECKED: [Signature]
DATE: 11-20-12
SCALE: NONE
SIZE: D
CERTIFIED FABRICATOR
JOB NO. 1905
SHEET NO. 1 of 2

No.	Initial	Remarks	Date
0		Initial submittal	11/21/12
REVISIONS			