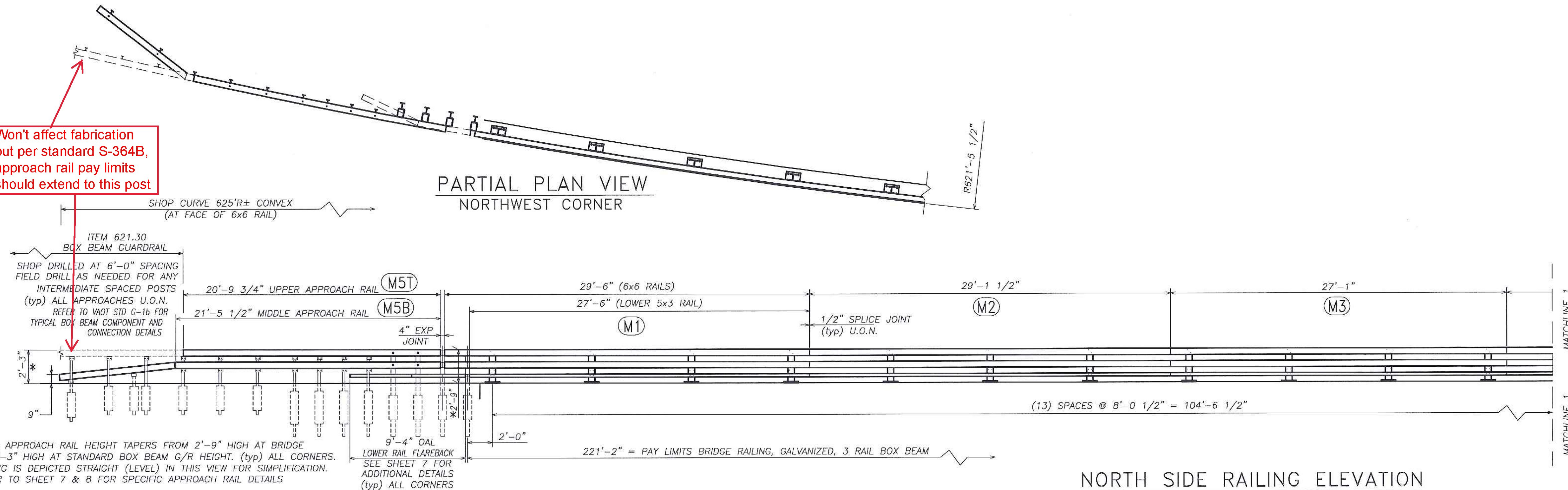


Won't affect fabrication but per standard S-364B, approach rail pay limits should extend to this post



\* NOTE: APPROACH RAIL HEIGHT TAPERS FROM 2'-9" HIGH AT BRIDGE TO 2'-3" HIGH AT STANDARD BOX BEAM G/R HEIGHT. (typ) ALL CORNERS. RAILING IS DEPICTED STRAIGHT (LEVEL) IN THIS VIEW FOR SIMPLIFICATION. REFER TO SHEET 7 & 8 FOR SPECIFIC APPROACH RAIL DETAILS

NORTH SIDE RAILING ELEVATION  
LOOKING AT TRAFFIC FACE OF RAILING  
FACING NORTH FROM CENTERLINE OF ROAD

Qty	mk	Description	Spec.
454 LF		ITEM 525.335 BRIDGE RAILING, GALVANIZED, 3 RAIL BOX BEAM	
57		BRIDGE RAILING POST W6 x 25 x 2'-8.875" OAH WITH 1 x 10 x 14 BASE PLATE (GLV)	A709 gr 50
57		BRIDGE RAIL SHELF ANGLE (GALV) L 5 x 5 x 5/8 x 6" LONG	A709 gr 50
57		BEARING PAD 0.125" THICK x 10.000 x 14.000 (NEOPRENE 80 duro +/-10)	aashto M251
30		FIX SPLICE TUBE (FOR 6X6) HSS 5 x 5 x 5/16 x 2'-3" w/ (3) 1/4 x 4 x 26 WELDED FILL PLATES (GLV)	A500 gr B
15		FIX SPLICE BAR (FOR 5X3) PL 2.125 x 4.250 x 27.000 (GALV)	A709 gr 50
4		EXP SPLICE BAR (FOR 5X3) PL 2.125 x 4.250 x 36.000 (GALV)	A709 gr 50
2	M1	UPPER & MIDDLE RAIL HSS 6 x 6 x 3/16 (GALV) 29 ft - 6 in LG (1 end EXP, 1 end FIX splice) 625R curve convex	A500 gr B
6	M2	UPPER & MIDDLE RAIL HSS 6 x 6 x 3/16 (GALV) 29 ft - 1.5 in LG (FIX splice both ends) 625R curve convex	A500 gr B
6	M3	UPPER & MIDDLE RAIL HSS 6 x 6 x 3/16 (GALV) 27 ft - 1 in LG (FIX splice both ends) 625R curve convex	A500 gr B
2	M4	UPPER & MIDDLE RAIL HSS 6 x 6 x 3/16 (GALV) 26 ft - 5 in LG (1 end EXP, 1 end FIX splice) 625R curve convex	A500 gr B
4	M6	UPPER & MIDDLE RAIL HSS 6 x 6 x 3/16 (GALV) 18 ft - 6.75 in LG (1 end EXP, 1 end FIX splice) 650R curve concave	A500 gr B
8	M7	UPPER & MIDDLE RAIL HSS 6 x 6 x 3/16 (GALV) 27 ft - 4 in LG (FIX splice both ends) 650R curve concave	A500 gr B
6	M8	UPPER & MIDDLE RAIL HSS 6 x 6 x 3/16 (GALV) 29 ft - 5.5 in LG (FIX splice both ends) 650R curve concave	A500 gr B
1	M1	LOWER RAIL TUBE HSS 5 x 3 x 1/4 (GALV) 27 ft - 6 in LG (1 end EXP, 1 end FIX splice) 625R curve convex	A500 gr B
3	M2	LOWER RAIL TUBE HSS 5 x 3 x 1/4 (GALV) 29 ft - 1.5 in LG (FIX splice both ends) 625R curve convex	A500 gr B
3	M3	LOWER RAIL TUBE HSS 5 x 3 x 1/4 (GALV) 27 ft - 1 in LG (FIX splice both ends) 625R curve convex	A500 gr B
1	M4	LOWER RAIL TUBE HSS 5 x 3 x 1/4 (GALV) 24 ft - 5 in LG (EXP splice both ends) 625R curve convex	A500 gr B
2	M6	LOWER RAIL TUBE HSS 5 x 3 x 1/4 (GALV) 16 ft - 6.75 in LG (1 end EXP, 1 end FIX splice) 650R curve concave	A500 gr B
4	M7	LOWER RAIL TUBE HSS 5 x 3 x 1/4 (GALV) 27 ft - 4 in LG (FIX splice both ends) 650R curve concave	A500 gr B
3	M8	LOWER RAIL TUBE HSS 5 x 3 x 1/4 (GALV) 29 ft - 5.5 in LG (FIX splice both ends) 650R curve concave	A500 gr B
4		LOWER FLAREBACK TUBE 5 x 3 x 1/4 x 9'-4" OAL w/ welded cap 1/4" x 4.750" x 2.750" (GALV) exp slots 1 end	A500 gr B
57		ANCHOR SPACER PLATE PL 0.375 x 10.000 x 14.000 (GALV)	A709 gr 36
228		ANCHOR STUD DBL END PART THREAD - 1" DIA x 13.000 w/ 2.250" THD EACH END (GLV)	A449
456		HEAVY HEX NUT 1" (GLV)	A563 DH
228		ROUND WASHER (SAE) - 1" DIA SMALL (GLV)	F436
228		JAM NUT 1" (GALV)	A563 DH
236		7/8 x 8 slotted head bolt HDG w/ HN & LW SQW (for upper & lower rail tube to post connection)	A449
57		3/4 x 8 hex bolt HDG w/ HN & LW (A325) (for middle rail tube to shelf angle connection)	A325
114		3/4 x 2.5 hex bolt HDG w/ HN & LW (A325) (for shelf angle to post connection)	A325
76		3/4 x 4.5 hex bolt HDG w/ HN & 2 FW (A325) (for 5x3 rail splice bar connection)	A325
120		3/4 x 7.5 hex bolt HDG w/ HN & 2 FW (A325) (for 6x6 rail splice tube connection)	A325

NOTE: SHOP CURVED TUBE RADII ARE ROUNDED TO NEAREST 25'R FOR FABRICATION. ACTUAL DESIGN RADII MAY VARY. IN THE 600' TO 700' RADIUS RANGE, THE FABRICATED MIDDLE-ORDINATE-RISE WILL ACCOMMODATE UP TO A +/- 15'R RANGE FOR THESE RAIL LENGTHS.

Vermont Agency of Transportation  
**RECEIVED**  
Morristown BRS 0240(3) Bridge Rail Shop Drawings\_Resubmit 4.27.18.pdf  
CK'D BY CLB OK'D BY CWC  
April 13, 2018  
RESUBMIT NO Approved AsNoted  
BY C. CARLSON DATE 04/27/18

No.	Remarks	Date
0	Initial submittal	4/11/18

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

ITEM 525.335 BRIDGE RAIL, GALVANIZED, 3 RAIL BOX BEAM  
ITEM 621.725 GUARDRAIL APPROACH, GALVANIZED, 3 RAIL BOX BEAM  
VT RT 15A BRIDGE No. 1  
TOWN OF MORRISTOWN - LAMOILLE COUNTY, VT  
BRS 0240(3) S

CERTIFIED FABRICATOR  
HSC JOB NO. 2236  
SHEET NO. 1 of 8

GENERAL CONTRACTOR  
SUB CONTRACTOR LAFAYETTE  
DRAWN PAR CHECKED [Signature] DATE 04-09-18 SCALE NONE SIZE D