



Vermont Agency of Transportation  
**RECEIVED**  
 ON: February 28, 2014  
 and Checked for  
**CONFORMANCE**  
 BY: Rob Young DATE: 03/07/2014

ITEM #	HARDWARE NOTES	FUNCTION
19	BOLT RAIL TO SHELF ANGLE (ITEM #10)	
20	BOLT SHELF ANGLE (ITEM #S 10 & 11) TO POST	
21	BOLT BLOCK-OUTS (ITEM #S 13 & 14) TO HEAVY POST	
22	(4) PER SPLICE BAR (ITEM #9)	
23	(4) PER SPLICE TUBING (ITEM #S 7 & 8)	
24	BOLT RAIL (ITEMS #S 6, 12, & 18 TO BLOCK-OUTS (ITEM #S 13 & 14) (WHERE FASTENED)	
25	BOLT DOUBLE BEND SPLICE TUBE (ITEM #12) TO RAIL (ITEM #10) & KICKBACK (ITEM #15)	

ITEM #	QTY.	COMPONENT #	DESCRIPTION	MATERIAL	CASTNO
1	3	0013.57021	3" I-POST, PUNCH 6" W/SPB @ 63" LG	ASTM A572 Gr. 50	
2	3	0013.57025	3" I-POST, PUNCH 6", & 20" W/SPD @ 63" LG	ASTM A572 Gr. 50	
3	2	0013.57060	3" I-END POST W/SPD @ 3'-8" LG	ASTM A572 Gr. 50	
4	4	0013.09001	W6X9 POST @ 7" W/SPD @ 5/8" HOLES	ASTM A572 Gr. 50	
5	4	0013.57010	3" I-POST, PUNCH 6" & 20" W/SPD @ 63" LG	ASTM A572 Gr. 50	
6	1	0033.00403	3X5.7 BTH TRANS RAIL W/5'-0" KB, EXP END	A500 Gr. B	
7	1	0033.00640	HSS 3X5 TUBE SPLICE @ 27" LG W/ 1/4" SHIMS	A500 Gr. B / A572 Gr. 50	
8	2	0033.00730	HSS 5x5 EXP TUBE SPLICE @ 36" LG W/ 1/4" SHIMS	A500 Gr. B / A572 Gr. 50	
9	1	0033.00930	BR EXP BAR SPLICE 2'-1/8" X 4'-1/4" @ 36" LG	ASTM A36	
10	19	0054.00050	REG BB SHELF ANGLE @ 4'-1/2"	ASTM A36	
12	1	0054.00050	HSS 3X5 DBL BEND TUBE SPL @ 27" LG & 45° ANGLE	A500 Gr. B / A572 Gr. 50	
13	8	0054.00563	6XB" TRANS. TUBE B/D @ 6" LG	A500 Gr. B	
14	3	0054.00565	6XB" TRANS. TUBE B/D @ 3" LG	A500 Gr. B	
15	1		6X6" BB @ 9'-0" KICKBACK, W/ CAP & 22° ANGLE	A500 Gr. B / A36	
16	1		6X6" BB @ 17'-11 1/2", DRILL 3" CC, W/ 15" RADIUS & END ASS'Y	A500 Gr. B	
17	1		6X6" BB TOP TRANS @ 28'-3 3/8" LG W/EXP END, & PARTIAL RAIL	A500 Gr. B	
18	1		6X6" BB BTH TRANS @ 21'-4 3/8" LG W/EXP END & PARTIAL RAIL	A500 Gr. B	
19	18	0080.03355	3/8" X 7 1/2" BOLT, NUT, & 2 FV	A307, A563, F436	
20	19	0080.04100	1/2" x 1-1/2" BOLT, NUT, & FV	A307, A563, F436	
21	22	0080.04120	1/2" x 1-1/2" BOLT, NUT, & 2 FV & LV	A307, A563, F436	
22	4	0080.06255	3/4" X 4-1/2" BOLT, NUT, & 2 FV	A325, A563, F436	
23	18	0080.06340	3/4" X 7-1/2" BOLT, NUT, & FV	A325, A563, F436	
24	6	0080.06370	3/4" X 9" CARB. BOLT, NUT, FV & LV	A307, A563, F436	
25	2	0080.06400	3/4" X 8" BOLT, NUT, & 2 FV, & LV	A325, A563, F436	

**T.Y. LIN INTERNATIONAL**  
 THE STAMPED DOCUMENTS ARE HEREBY:  
 APPROVED  
 APPROVED AS NOTED  
 REVISE AND RESUBMIT

SEE TRANSMITTAL FOR ADDITIONAL INFORMATION AS APPLICABLE.

THIS REVIEW IS FOR GENERAL CONFORMANCE WITH DESIGN CONCEPT ONLY. ANY DEVIATION FROM THE PLANS OR SPECIFICATIONS NOT CLEARLY NOTED BY THE CONTRACTOR HAS NOT BEEN REVIEWED. REVIEW BY THE ENGINEER SHALL NOT RELIEVE THE CONTRACTOR OF THE CONTRACTUAL RESPONSIBILITY FOR ANY ERRORS OR DEVIATION FROM THE CONTRACT REQUIREMENTS.

JOSH OLUND 02/28/2014  
 REVIEWER DATE

ITEM #: 621.725  
 APPROVED BY:

F.R. LAFAYETTE, CAVENDISH VERMONT SHEET 2 OF 10

**GUARD RAIL TO BRIDGE RAIL TRANSITION DETAILS SHEET**  
 CAVENDISH, ER BR# 0416 (13), ROUTE VT 131, OVER TWENTY MILE STREAM VERMONT

R NO.	DATE	DESCRIPTION	BY	R NO.	DATE	DESCRIPTION	BY
E 1	2/17/14	REVISED PER 12/20/13 MARK-UP	EP				

ELDERLEE, INC.  
 OAKS CORNERS, NEW YORK 14618  
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DRAWN	E.P.	11/13/13
CHECKED	D.L.	11/20/13
APPROVED		
SCALE	SCHEMATIC	
DRAWING NO. F.R. LAFAYETTE, CAVENDISH		