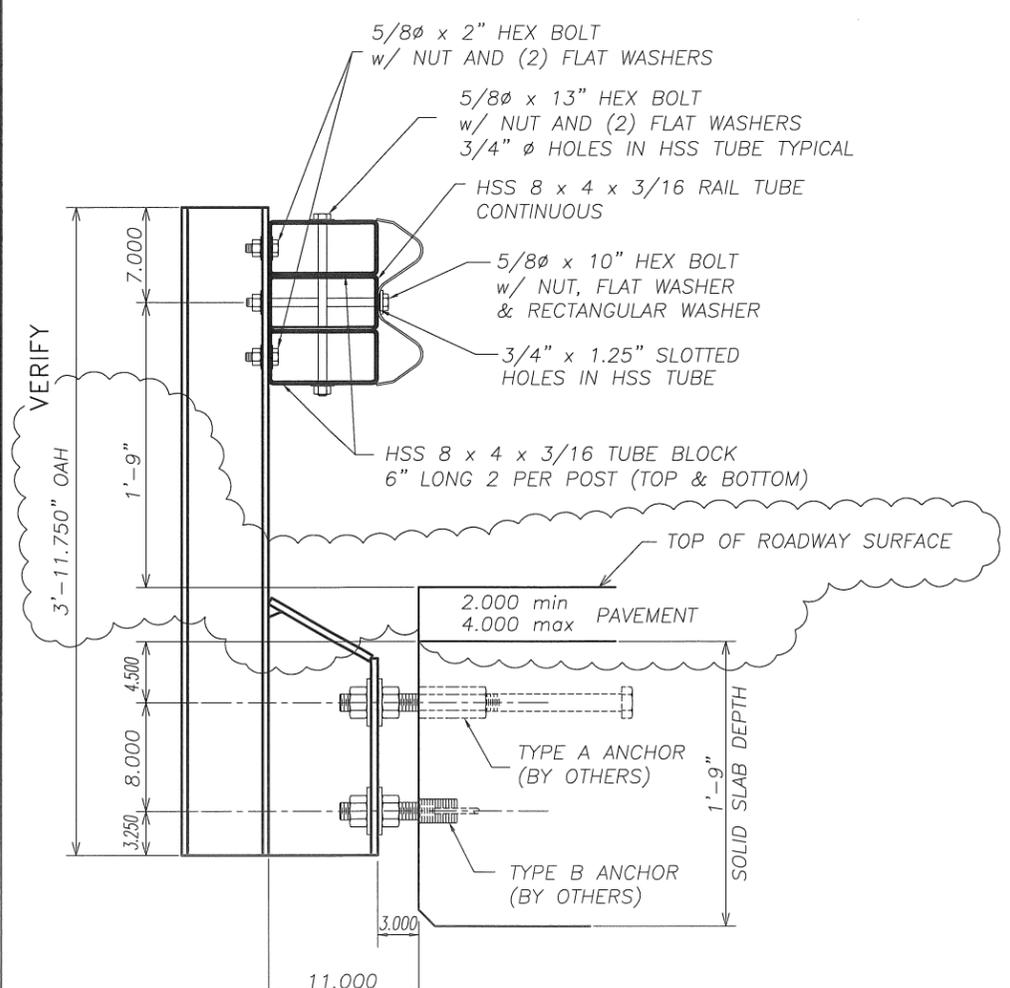


FIRST DRIVEN POST OFF BRIDGE INCLUDED IN ITEM 525.44
ALL ADDITIONAL DOWN STREAM POSTS INCLUDED IN APPROACH ITEM



LIMITS ITEM 525.44 BRIDGE RAILING,
GALVANIZED HDSB/FASCIA MOUNTED STEEL TUBING

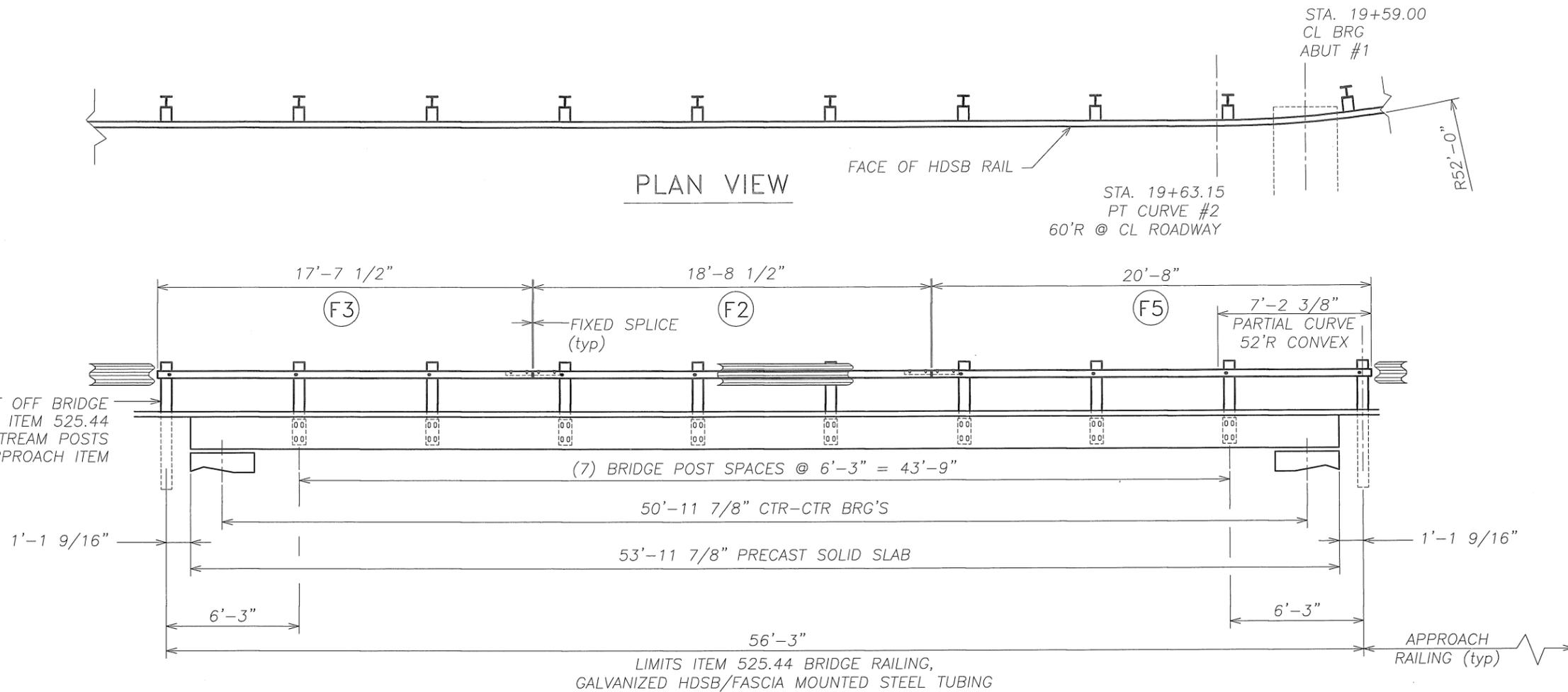
NORTHEAST RAILING ELEVATION BRIDGE NO. 46

LOOKING AT FACE OF RAIL FROM CENTERLINE OF ROAD
PORTIONS OF HDSB W-BEAM RAIL AND TUBULAR BLOCKS HAVE BEEN REMOVED FROM THIS VIEW FOR CLARITY

SECTION
THRU RAILING

No.	Remarks	Date
0	Initial submittal	
REVISIONS		

<p>GLASTONBURY, CT 860-633-9445</p>		
<p>GENERAL CONTRACTOR</p>		<p>HSC JOB NO. 2031</p>
<p>SUB CONTRACTOR LAFAYETTE</p>		<p>SHEET NO. 1 of 3</p>
<p>DRAWN PAR</p>	<p>CHECKED <i>[Signature]</i></p>	<p>DATE 02-17-15</p>
<p>SCALE NTS</p>		<p>SIZE D</p>



BILL OF MATERIAL

TOTAL PAY LENGTH ITEM 525.44 (BRIDGE 46) = 112.5 LF

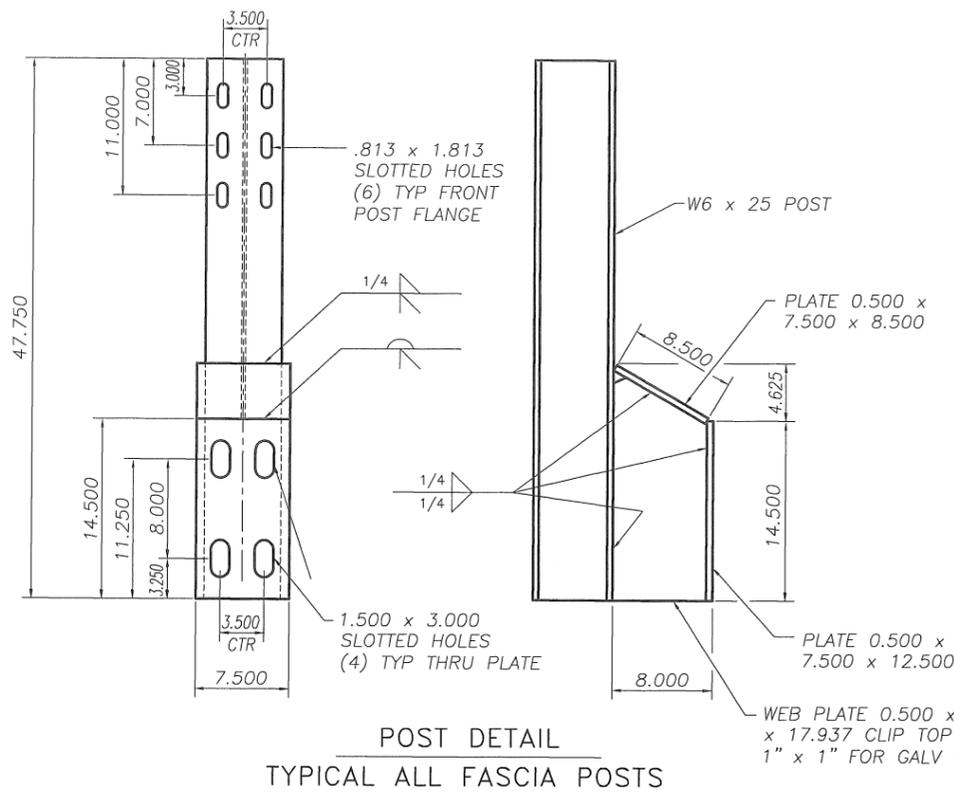
Qty	mk	Description	Spec.
16		W6x25 FASCIA MOUNTED POST 47.750 OAL w/ WELDED OFFSET PLATES (GLV)	A572 gr 50
16		PL 0.500 x 7.500 x 8.500 (WELDED TO POST)	A572 gr 50
16		PL 0.500 x 7.500 x 14.500 (WELDED TO POST)	A572 gr 50
16		PL 0.500 x 7.500 x 17.937 (WELDED TO POST)	A572 gr 50
4		W6x25 DRIVEN POST #1 x 6 FT LONG (GLV)	A572 gr 50
40		TUBE BLOCK HSS 8 x 4 x 3/16 x 6.000" LG (GLV)	A500 gr B
8		HDSB W-BEAM PANEL 10 GA 12'-6" LG X 6'-3" SP (GALV)	M180 B2
1		HDSB W-BEAM PANEL 10 GA 6'-3" LG X 6'-3" SP (GALV) shop curve 52'R convex	M180 B2
1		HDSB W-BEAM PANEL 10 GA 6'-3" LG X 6'-3" SP (GALV) shop curve 68'R concave	M180 B2
4		SPLICE CHANNEL C7 X 9.8 x 2'-6.500" w/ (4) TACKWELDED HEX NUTS (GALV)	A572 gr 50
2	F2	TUBULAR STEEL RAIL (GLV) HSS 8 x 4 x 3/16 x 18'-8.500" OAL	A500 gr B
2	F3	TUBULAR STEEL RAIL (GLV) HSS 8 x 4 x 3/16 x 17'-7.500" OAL	A500 gr B
1	F4	TUBULAR STEEL RAIL (GLV) HSS 8 x 4 x 3/16 x 20'-8.000" OAL (partial curve 68'R concave)	A500 gr B
1	F5	TUBULAR STEEL RAIL (GLV) HSS 8 x 4 x 3/16 x 20'-8.000" OAL (partial curve 52'R convex)	A500 gr B
20		RECTANGULAR WASHER 0.1875" x 1.75" x 3.00" (GLV)	A572 GR 50
20		HEX HEAD BOLT 5/8" DIA x 13" LG HDG	A325
20		HEX HEAD BOLT 5/8" DIA x 10" LG HDG	A325
56		HEX HEAD BOLT 5/8" DIA x 2" LG HDG	A325
80		HEX NUT 5/8" HDG	A563 DH
156		ROUND WASHER SMALL FLAT 5/8" HDG	F436
80		PANEL SPLICE BOLT 5/8" x 1.25" HDG	A307
80		DOUBLE RECESS. NUT 5/8" HDG	A563 A

SOUTHWEST RAILING ELEVATION BRIDGE NO. 46

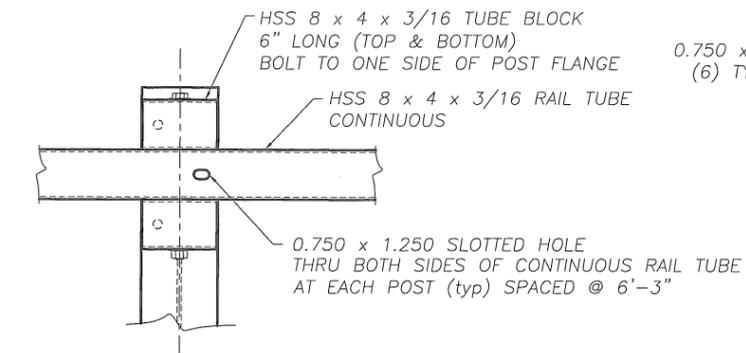
LOOKING AT FACE OF RAIL FROM CENTERLINE OF ROAD

PORTIONS OF HDSB W-BEAM RAIL AND TUBULAR BLOCKS HAVE BEEN REMOVED FROM THIS VIEW FOR CLARITY

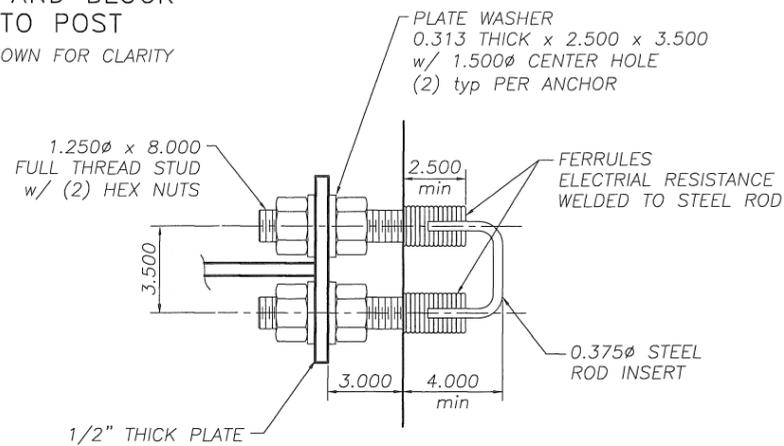
HIGHWAY SAFETY CORP GLASTONBURY, CT 860-633-9445	
ITEM 525.44 BRIDGE RAILING GALVANIZED FASCIA MOUNTED HDSB STEEL TUBE	
BRIDGE NO. 46 ELM BROOK TH 47 BRO 1448(41) FAIRFIELD VERMONT	
GENERAL CONTRACTOR SUB CONTRACTOR DRAWN PAR	LAFAYETTE DATE 02-17-15 SCALE NTS SIZE D
CERTIFIED FABRICATOR HSC JOB NO. 2031 SHEET NO. 2 of 3	



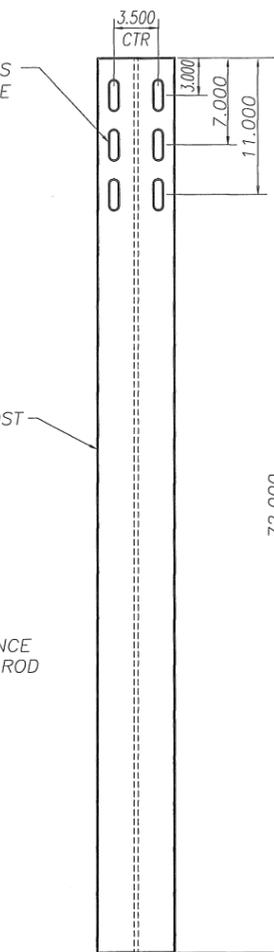
POST DETAIL
TYPICAL ALL FASCIA POSTS



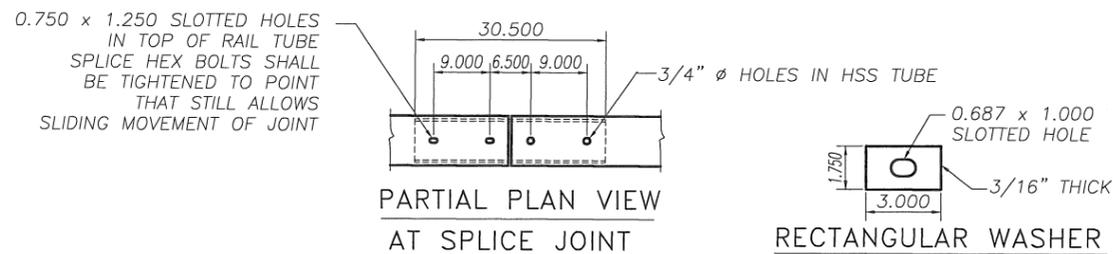
PARTIAL ELEVATION
SHOWING RAIL AND BLOCK
ASSEMBLY TO POST
HDSB RAIL NOT SHOWN FOR CLARITY



TYPE B ANCHOR ASSEMBLY
(1) PER POST
(BY OTHERS)

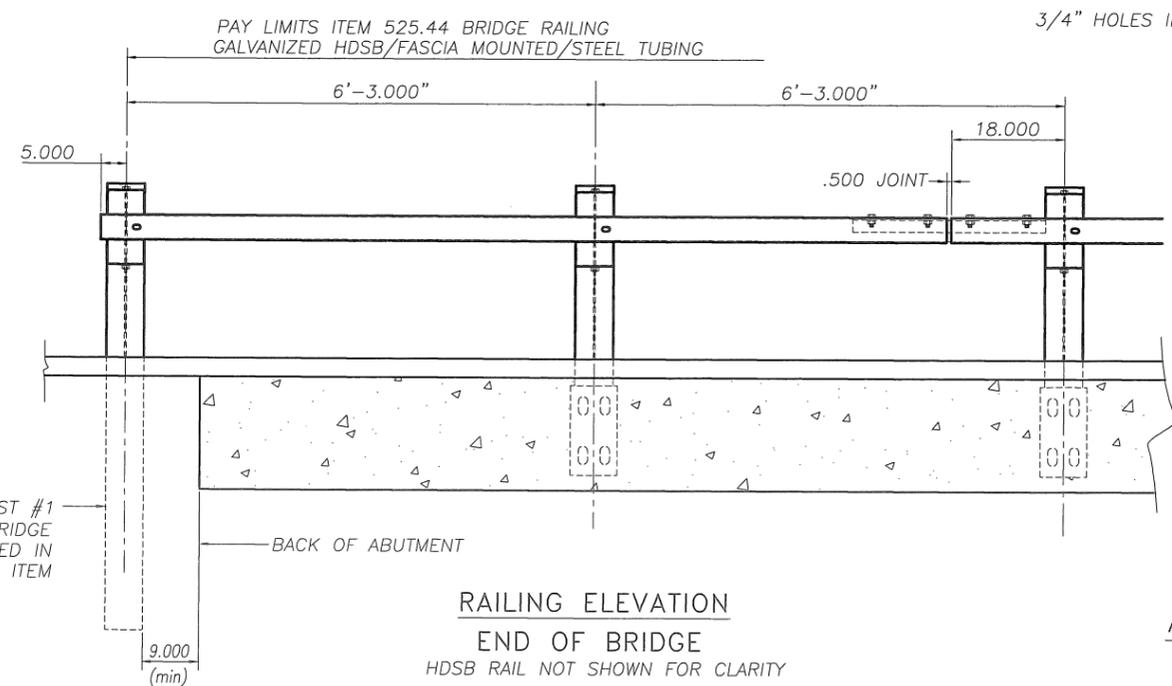


POST ELEVATION
DRIVEN POST #1

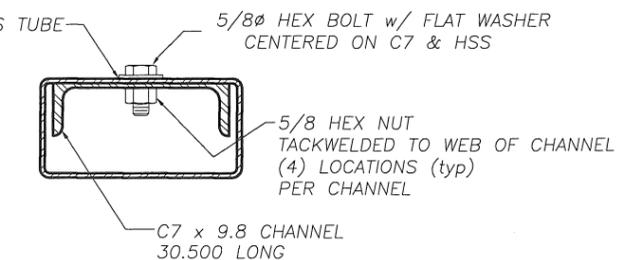


PARTIAL PLAN VIEW
AT SPLICE JOINT

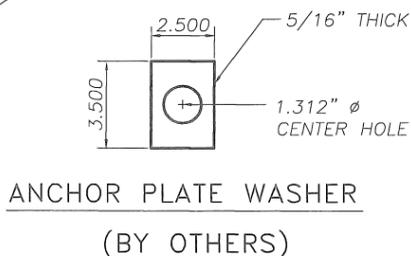
RECTANGULAR WASHER



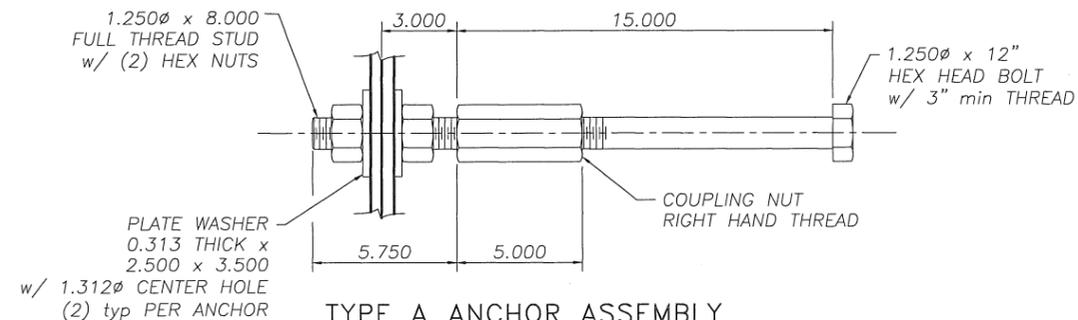
RAILING ELEVATION
END OF BRIDGE
HDSB RAIL NOT SHOWN FOR CLARITY



SECTION THRU 8x4 RAIL
AT SPLICE JOINT



ANCHOR PLATE WASHER
(BY OTHERS)



TYPE A ANCHOR ASSEMBLY
(2) PER POST
(BY OTHERS)

NOTES

- ALL WORK AND MATERIALS SHALL CONFORM TO SECTION 525
- TYPE B ANCHOR INSERTS OF A DIFFERENT TYPE MAY BE PROVIDED, IF APPROVED BY THE ENGINEER
- PRIOR TO GALVANIZING THE ASSEMBLED POST, GRIND ALL EDGES TO A MINIMUM 1/16" RADIUS
- ALL POSTS SHALL BE SET NORMAL TO GRADE
- SPLICES FOR THE STEEL BEAM GUARDRAIL SHALL LAP IN THE DIRECTION OF TRAFFIC
- A RAILING JOINT SPLICE SHALL BE PROVIDED IN ANY RAIL BAY SPANNING THE END OF AN INTEGRAL ABUTMENT BRIDGE AND AT ALL SUPERSTRUCTURE EXPANSION JOINTS
- SEE VAOT STANDARD DRAWING G-1 FOR DETAILS OF DELINEATORS. A DELINEATOR SHALL BE INSTALLED AT 30 FT SPACING OR THE NEAREST POST. WHITE IS TO BE INSTALLED ON THE DRIVERS RIGHT. FOR ONE WAY BRIDGES, YELLOW IS TO BE INSTALLED ON THE DRIVERS LEFT. DELINEATORS PROVIDED BY OTHERS.
- FOR RADII LESS THAN 950 FEET, HSS 8 X 4 TUBES SHALL BE SHOP BENT TO FIT THE APPLICABLE CURVE
- THE MINIMUM DISTANCE FROM THE LAST POST TO THE END OF SLAB IS 1'-6"
- FERRULES SHALL BE 12L14 COLD DRAWN CARBON STEEL
- HOLES IN THE RAIL FOR RAIL TUBE ATTACHMENT MAY BE FIELD DRILLED. FIELD DRILLED HOLES SHALL BE COATED WITH AN APPROVED ZINC RICH PAINT PRIOR TO INSTALLATION
- THIS RAILING MEETS THE REQUIREMENTS FOR A TL-2 SERVICE LEVEL.
- ALL METAL PARTS SHALL BE HOT-DIPPED GALVANIZED.

HIGHWAY SAFETY CORP

GLASTONBURY, CT
860-633-9445

ITEM 525.44 BRIDGE RAILING
GALVANIZED FASCIA MOUNTED HDSB STEEL TUBE

BRIDGE NO. 46 ELM BROOK TH 47 BRO 1448(41)
FAIRFIELD VERMONT

GENERAL CONTRACTOR

SUB CONTRACTOR

LAFAYETTE

DRAWN

PAR

CHECKED

DATE 02-17-15

SCALE

NTS

SIZE

D

ASC CERTIFIED
FABRICATOR

HSC JOB NO.

2031

SHEET NO.

3 of 3