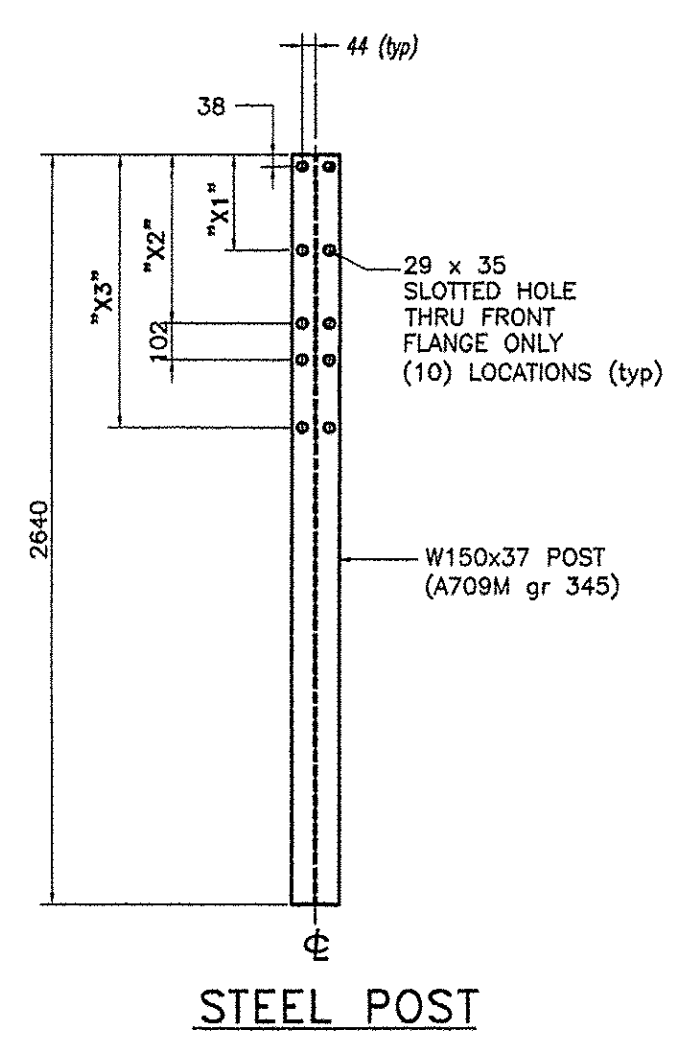
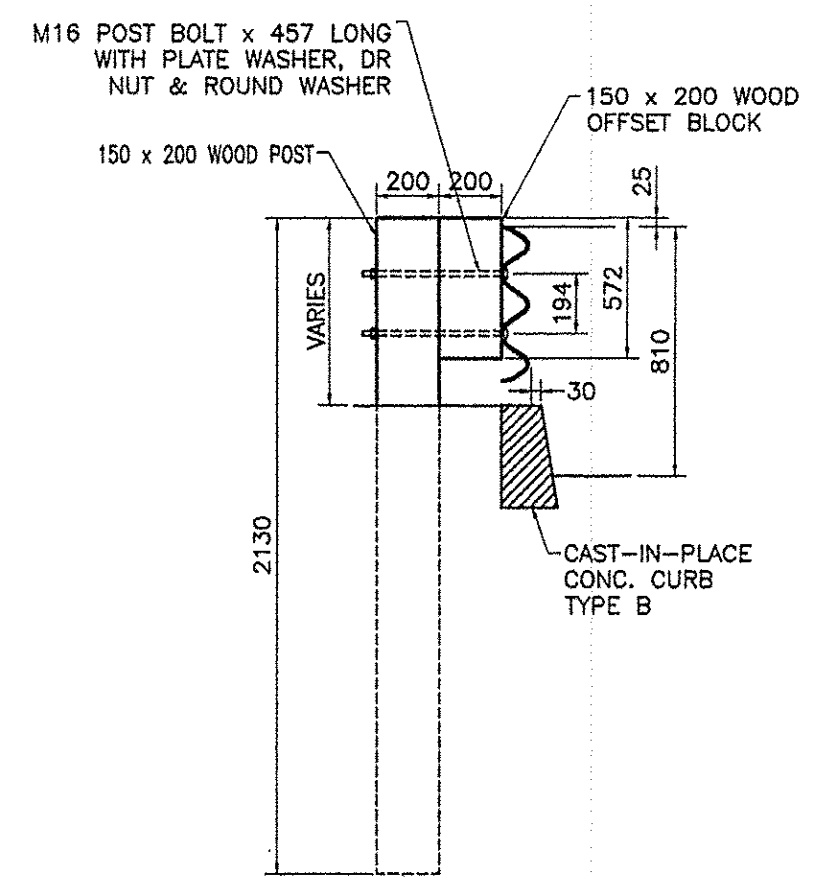
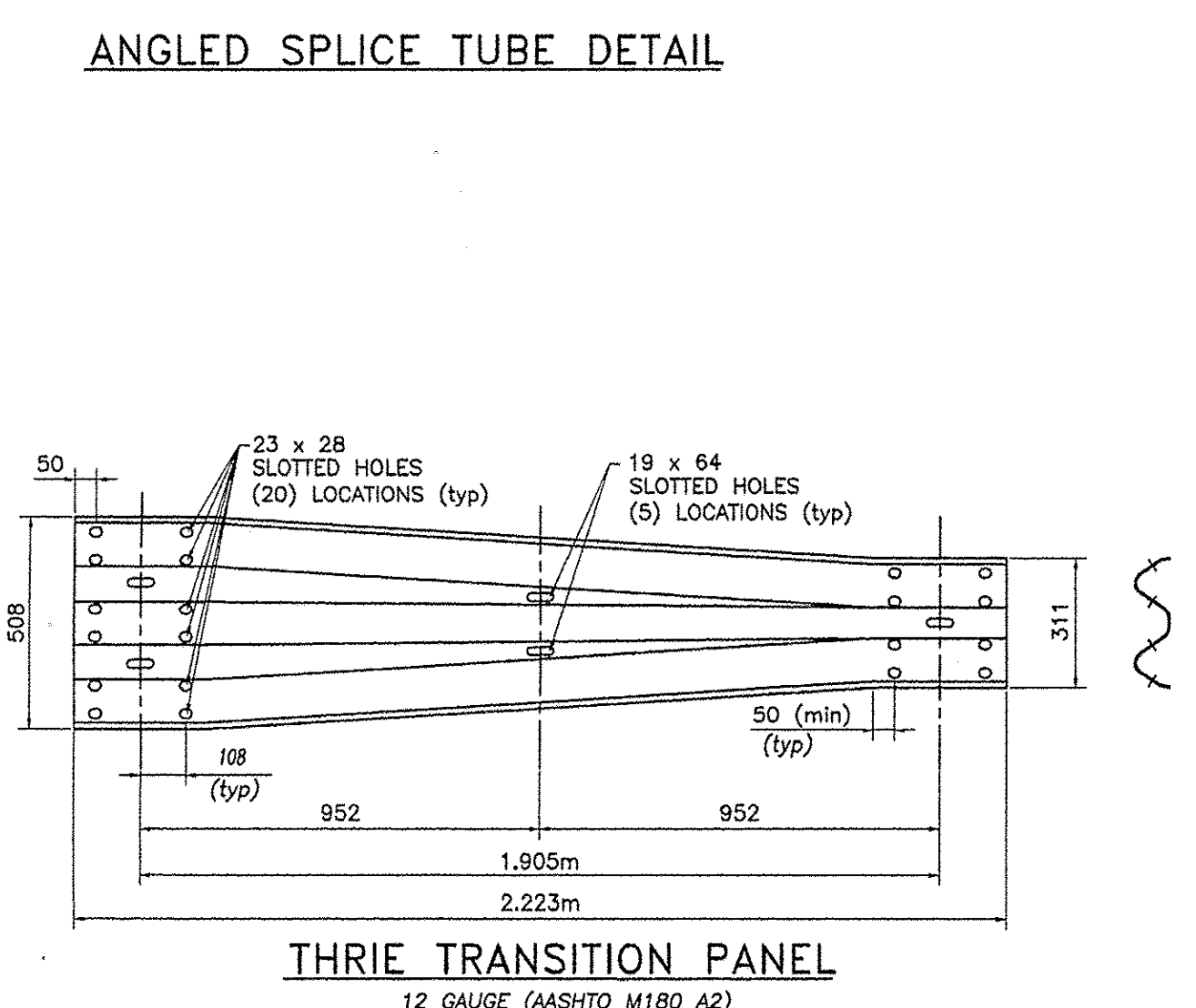
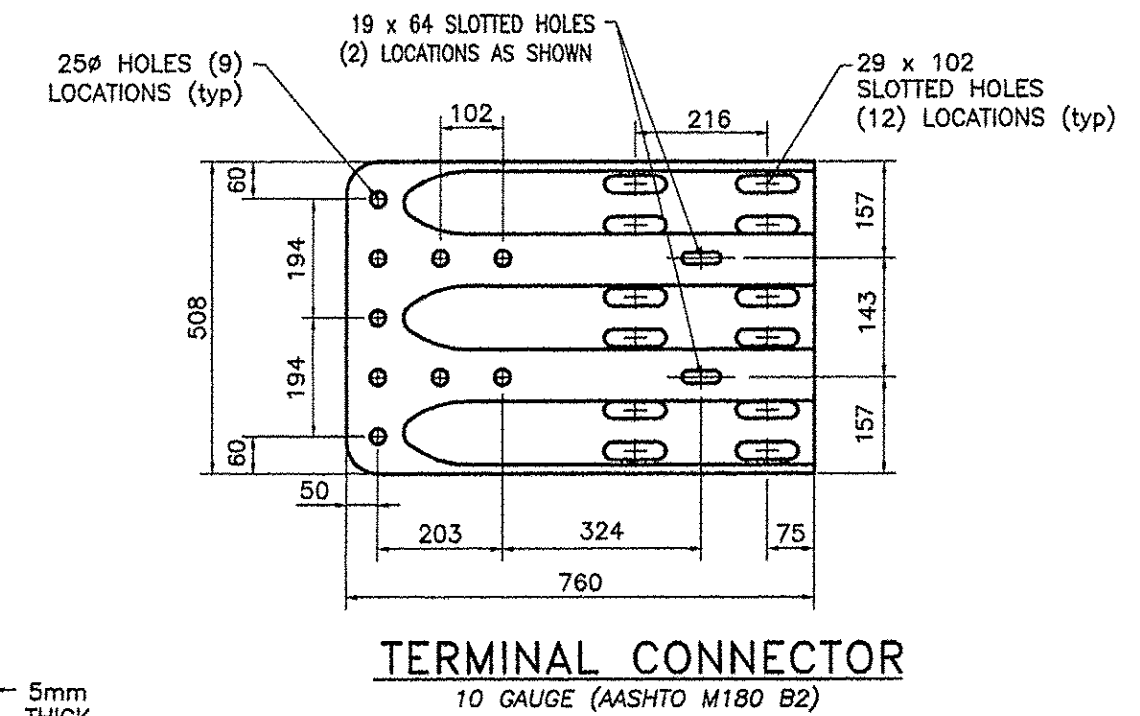
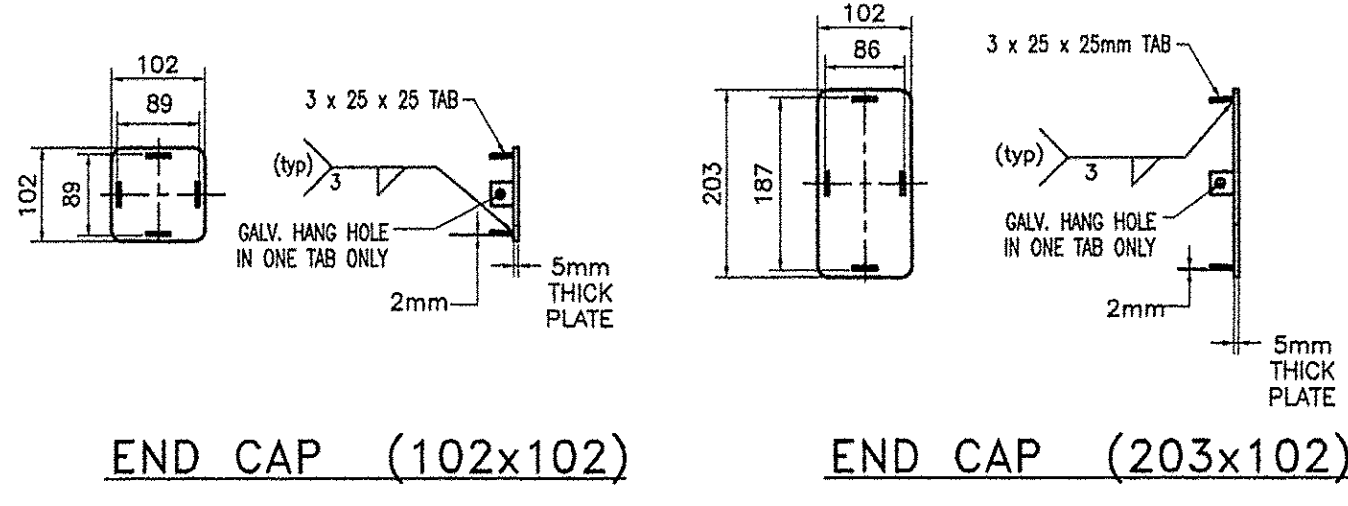
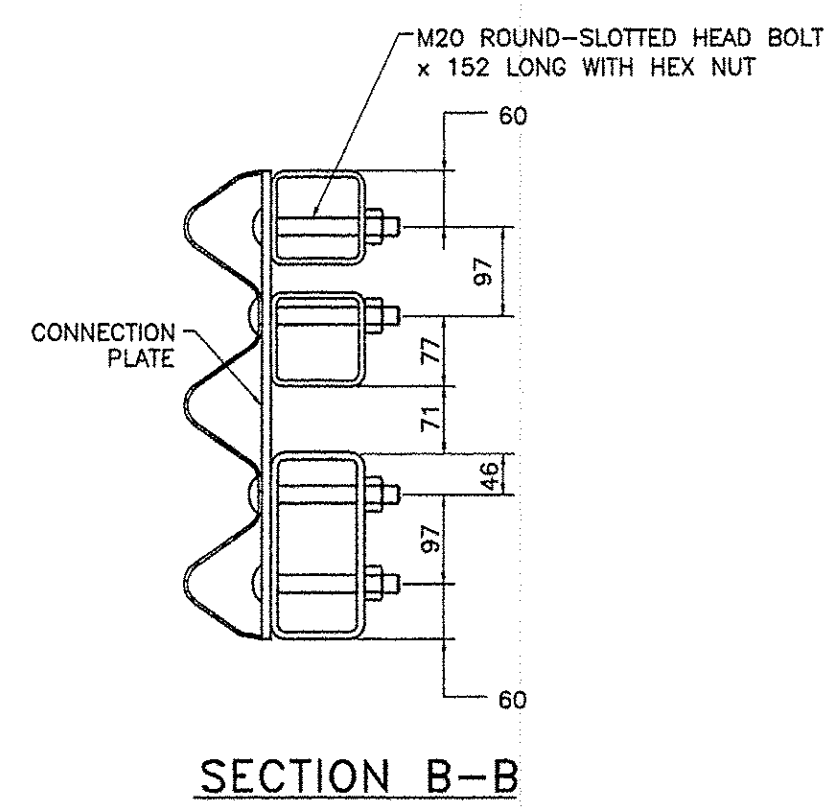
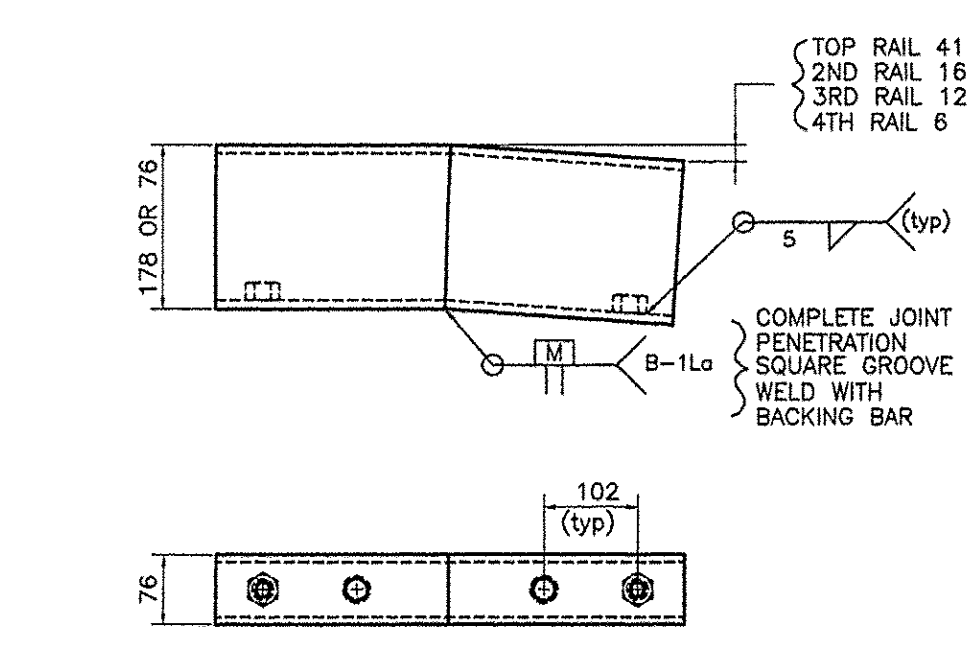
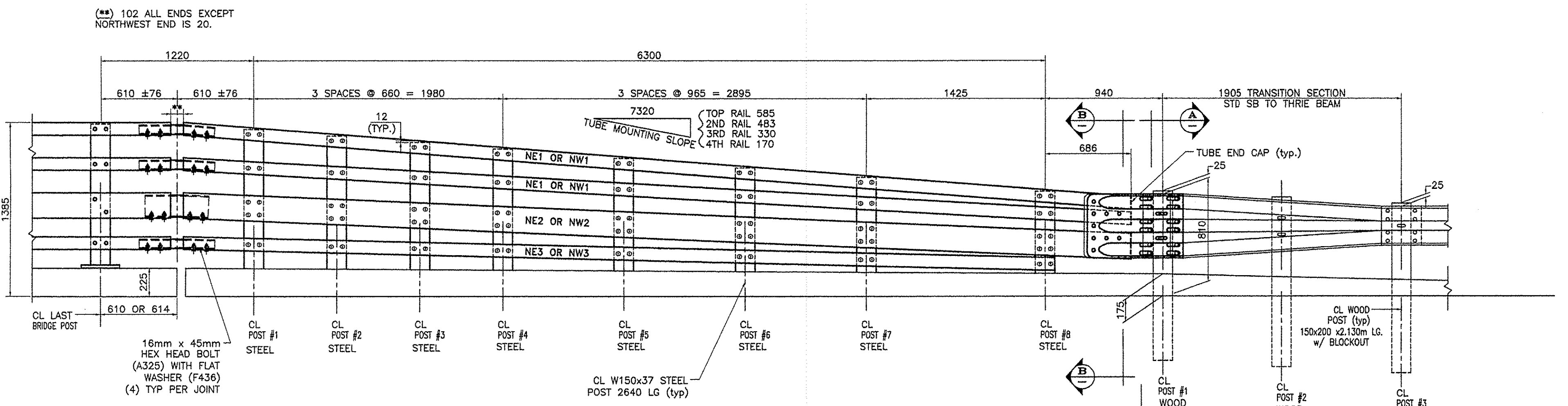
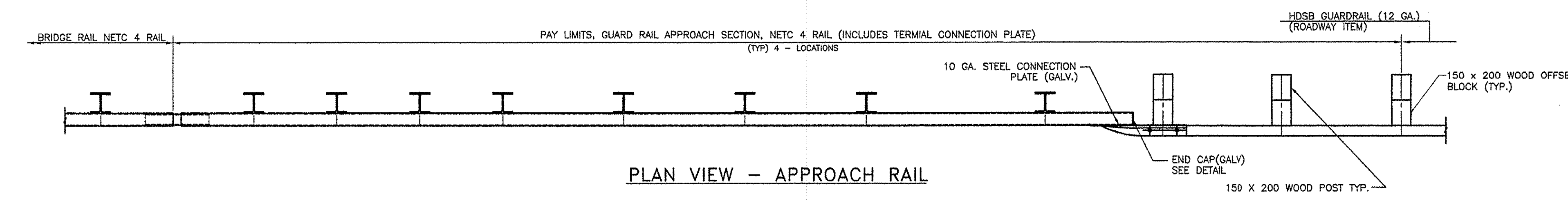
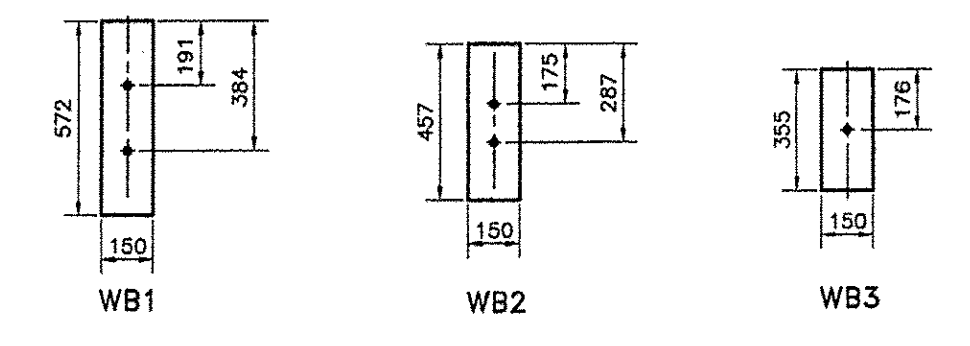
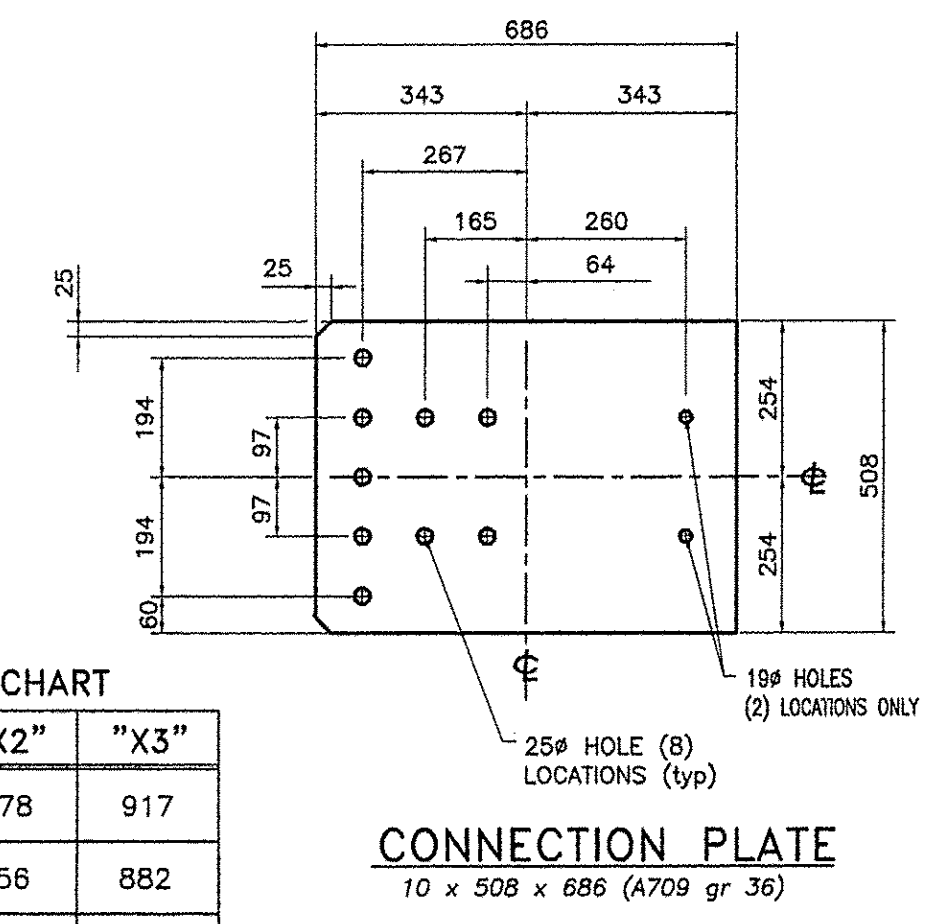




STEEL POST CHART

No.	"X1"	"X2"	"X3"
#1	308	578	917
#2	292	556	882
#3	279	533	844
#4	266	508	810
#5	247	476	759
#6	228	441	708
#7	206	410	654
#8	178	358	686



BILL OF MATERIAL (3-APPROACHES)

Mk.	Qty.	Description	Material
24	1	STEEL POST W150x37 x 2.640m OAL	A709M gr 345
9	1	WOOD POST 150x200 x 2.130m OAL	TIMBER
NE1	6	TS 102x102x6 x 7.537m	A500 gr B
NE2	3	RAIL TS 203x102x8mm x 7.537m	A500 gr B
NE3	3	TS 102x102x6 x 6.905m	A500 gr B
3	1	THRIE TRANSITION PANEL - 12 GA	M180 A2
3	1	TERMINAL CONNECTOR (10 GA)	M180 B2
3	1	END CAP FOR 203 x 102 TUBE RAIL	A709M gr 250
9	1	END CAP FOR 102 x 102 TUBE RAIL	A709M gr 250
3	1	CONNECTION PLATE 10 x 508 x 686	A709M gr 250
3	1	WOOD OFFSET BLOCK 150x200 x 572 LONG	TIMBER
3	1	WOOD OFFSET BLOCK 150x200 x 457 LONG	TIMBER
3	1	WOOD OFFSET BLOCK 150x200 x 355 LONG	TIMBER
15	1	M16 x 457 LONG POST BOLT w/ PLATE WASHER, DR RECESSED NUT & ROUND WASHER	M164M
216	1	M20 x 152 LONG ROUND-SLOTTED HEAD BOLT WITH ROUND WASHER & LOCK NUT	A325M
60	1	M16 x 32 SPLICE BOLT w/ DOUBLE RECESSED NUT	M164M
3	1	SPLICE TUBE (ANGLED) - TS 178x76x10 600 OAL	A500 gr B
9	1	SPLICE TUBE (ANGLED) - TS 76x76x8 600 OAL	A500 gr B
48	1	M20 x 45 HEX HEAD BOLT w/ ROUND WASHER	A325M
48	1	SPACER PIPE DN 20 SCH 40 x 13 LONG	A709M gr 250

BILL OF MATERIAL (NORTHWEST APPROACH ONLY)

Mk.	Qty.	Description	Material
8	1	STEEL POST W150x37 x 2.640m OAL	A709M gr 345
3	1	WOOD POST 150x200 x 2.130m OAL	TIMBER
NW1	2	TS 102x102x6 x 7.569m	A500 gr B
NW2	1	RAIL TS 203x102x8mm x 7.569m	A500 gr B
NW3	1	TS 102x102x6 x 6.937m	A500 gr B
1	1	THRIE TRANSITION PANEL - 12 GA	M180 A2
1	1	TERMINAL CONNECTOR (10 GA)	M180 B2
1	1	END CAP FOR 203 x 102 TUBE RAIL	A709M gr 250
3	1	END CAP FOR 102 x 102 TUBE RAIL	A709M gr 250
1	1	CONNECTION PLATE 10 x 508 x 686	A709M gr 250
1	1	WOOD OFFSET BLOCK 150x200 x 572 LONG	TIMBER
1	1	WOOD OFFSET BLOCK 150x200 x 457 LONG	TIMBER
1	1	WOOD OFFSET BLOCK 150x200 x 355 LONG	TIMBER
5	1	M16 x 457 LONG POST BOLT w/ PLATE WASHER, DR RECESSED NUT & ROUND WASHER	M164M
72	1	M20 x 152 LONG ROUND-SLOTTED HEAD BOLT WITH ROUND WASHER & LOCK NUT	A325M
20	1	M16 x 32 SPLICE BOLT w/ DOUBLE RECESSED NUT	M164M
1	1	SPLICE TUBE (ANGLED) - TS 178x76x10 600 OAL	A500 gr B
3	1	SPLICE TUBE (ANGLED) - TS 76x76x8 600 OAL	A500 gr B
16	1	M20 x 45 HEX HEAD BOLT w/ ROUND WASHER	A325M
16	1	SPACER PIPE DN 20 SCH 40 x 13 LONG	A709M gr 250

- NOTES:
- PAYMENT FOR GUARD RAIL APPROACH SECTION, NETC 4 RAIL SHALL INCLUDE THE TERMINAL CONNECTOR, THE CONNECTION PLATE, RAIL, POSTS, BLOCKS AND ATTACHMENT HARDWARE.
 - ALL APPROACH RAIL SPLICES SHALL BE LAPPED IN THE DIRECTION OF TRAFFIC FLOW.
 - ALL APPROACH RAIL MATERIALS, DIMENSION SIZE AND NOTES SHALL BE THE SAME AS OF THOSE OF THE BRIDGE RAIL, UNLESS OTHERWISE NOTED.
 - ALL PARTS SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH AASHTO M111, EXCEPT THAT HARDWARE SHALL MEET THE REQUIREMENTS OF AASHTO M232.
 - ALL EXPOSED CUT OR SHEARED EDGES SHALL BE GROUNDED TO A 2mm RADIUS AND BE FREE OF BURRS.
 - CARRIAGE BOLTS SHALL BE AASHTO M 164M AND NUTS SHALL BE AASHTO M29 IM (ASTM A 563M) OR BETTER (GALVANIZED).
 - HOLES IN RAILS FOR ATTACHMENT TO POSTS WILL BE FIELD DRILLED. HOLES SHALL BE COATED WITH AN APPROVED ZINC-RICH PAINT PRIOR TO ERECTION.
 - WELD SPLICE BARS TO FIT BEND. USE COMPLETE PENETRATION WELD (B-U2).
 - THE REFLECTORIZED ALUMINUM DELINEATOR IS TO BE ERECTED EVERY 9100 (OR CLOSEST POST) WITH A 16 DIAMETER BOLT. DELINEATORS SHALL MEET SPECIFICATION REQUIREMENTS FOR ASTM B209 ALLOY 5052-H32.
 - REFLECTIVE MATERIAL SHALL MEET REQUIREMENTS OF SUBSECTION 750.08 AND SHALL BE OF ENCAPSULATED LENS SILVER. SILVER IS TO BE INSTALLED ON THE DRIVER'S RIGHT.

REVISIONS

No.	Initial	Remarks	Date
0		Initial submittal	

HIGHWAY SAFETY CORP.
GLASTONBURY, CT

ITEM 621.73 BRIDGE APPROACH RAILING - NETC 4 RAIL
TOWN OF BENNINGTON
COUNTY OF BENNINGTON
PROJECT AC NH 019-1(53) BRIDGE B11
EAST ROAD OVER VT ROUTE 279

DRAWN: MHM
CHECKED: P. Radice
DATE: 12/30/07
SCALE: NONE
HSC REFERENCE NO.: 1615
GENERAL CONTRACTOR: F.R. LAFAYETTE, INC.
SUB CONTRACTOR: F.R. LAFAYETTE, INC.

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