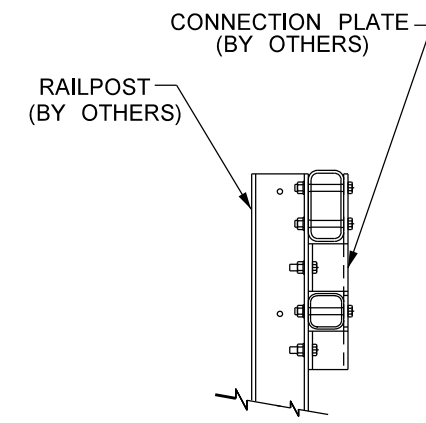
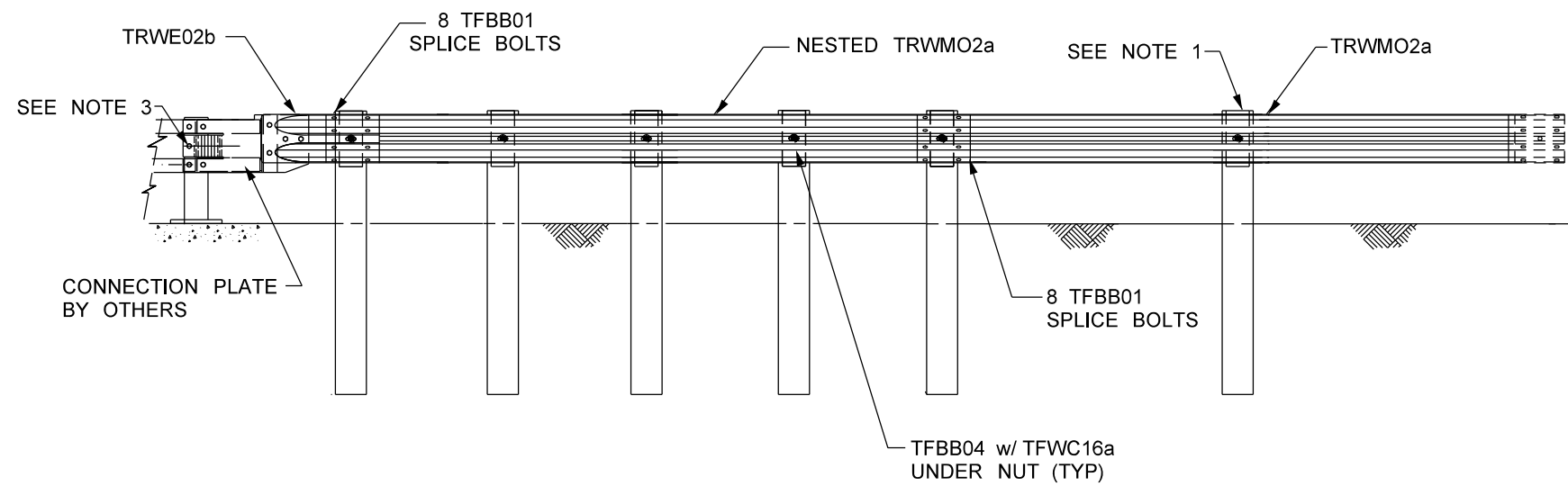


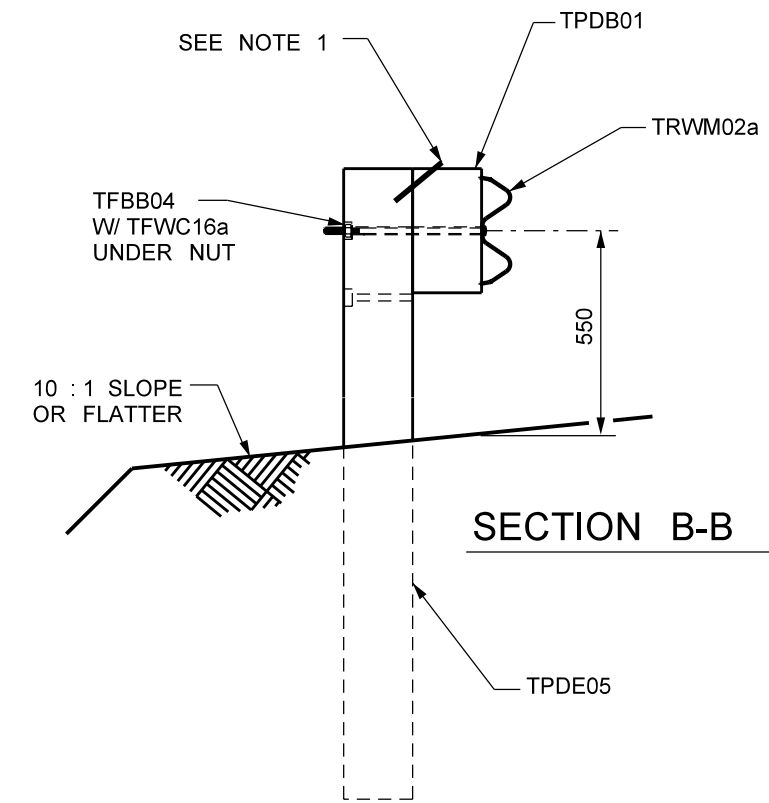
PLAN 1:50



SECTION A-A 1:25



ELEVATION 1:50



SECTION B-B 1:25

- NOTES:
1. BLOCKOUT TO BE NAILED TO POST USING 90mm NAIL TO PREVENT BLOCK ROTATION
  2. ALL SCALES ARE APPROXIMATE
  3. NEEDS TO BE FIELD DRILLED.

NOTE: Original structural drawing sealed by J. Lukashenko P.Eng., Feb.23, 2000. It is filed in the Bridges and Structures Branch.

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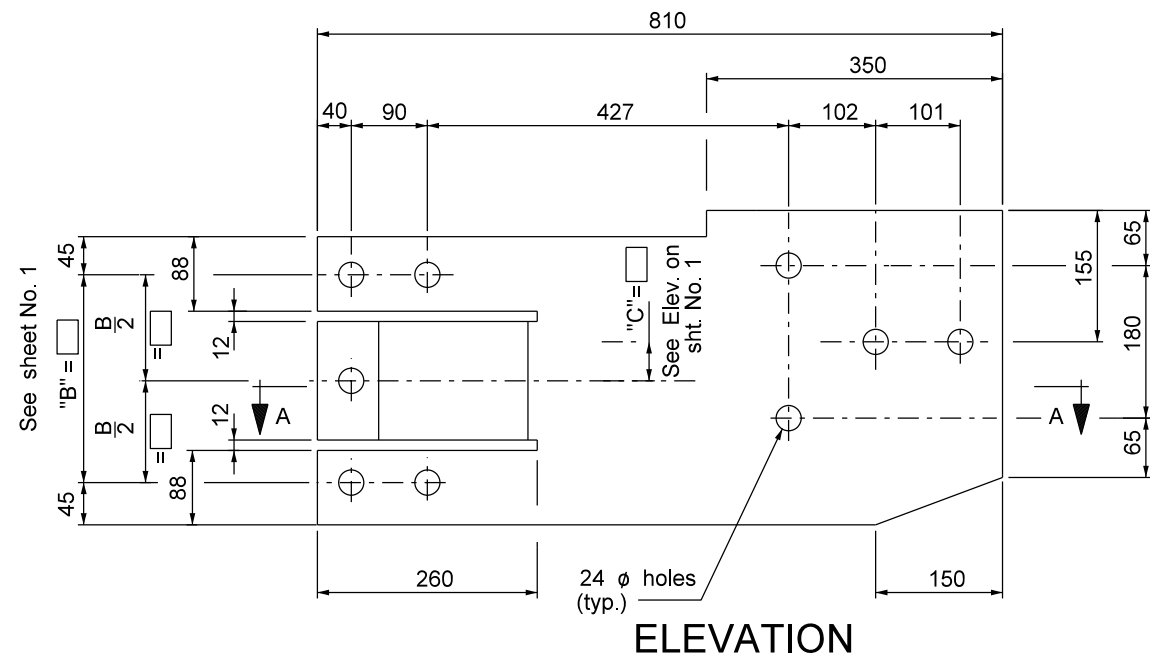
**Manitoba**  
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Transportation  
TRAFFIC ENGINEERING



NESTED W BEAM TO  
2 RAIL PL - 2 BRIDGE

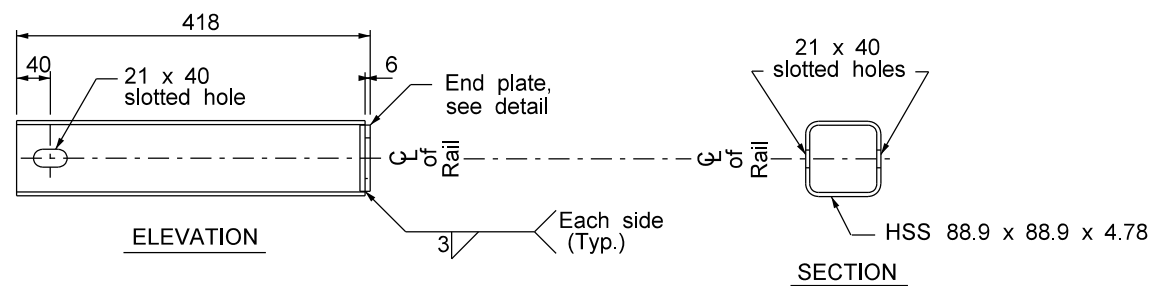
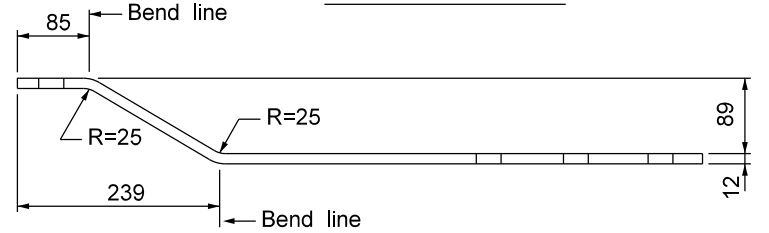
SHEET NO	1 OF 2
DATE:	2002 - 09
DRAWN:	D.C.

TSTB10

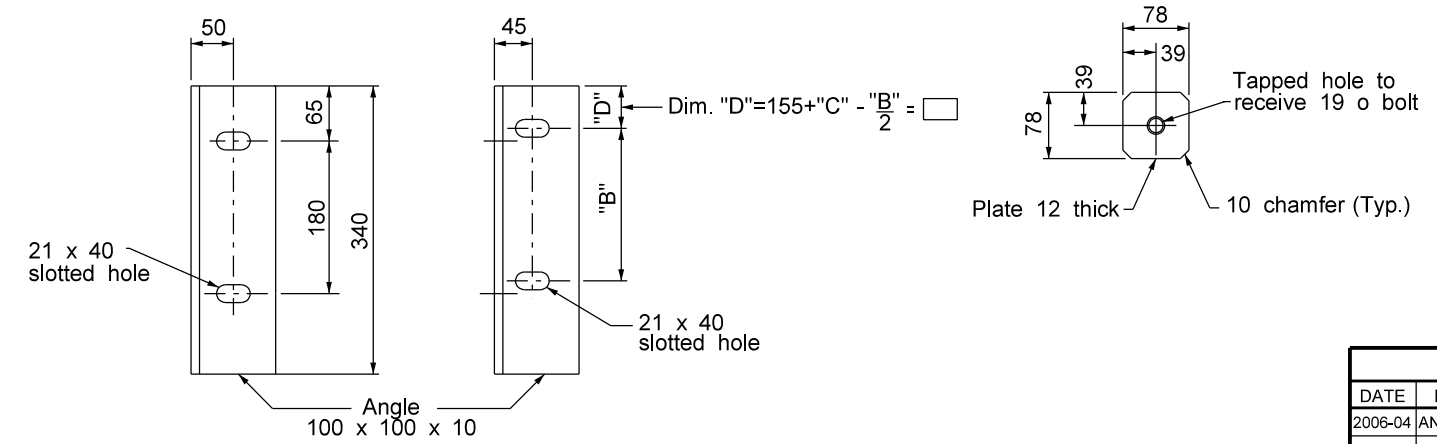


**ELEVATION**

**CONNECTION PLATE MK. "AP1" & "AP2"**

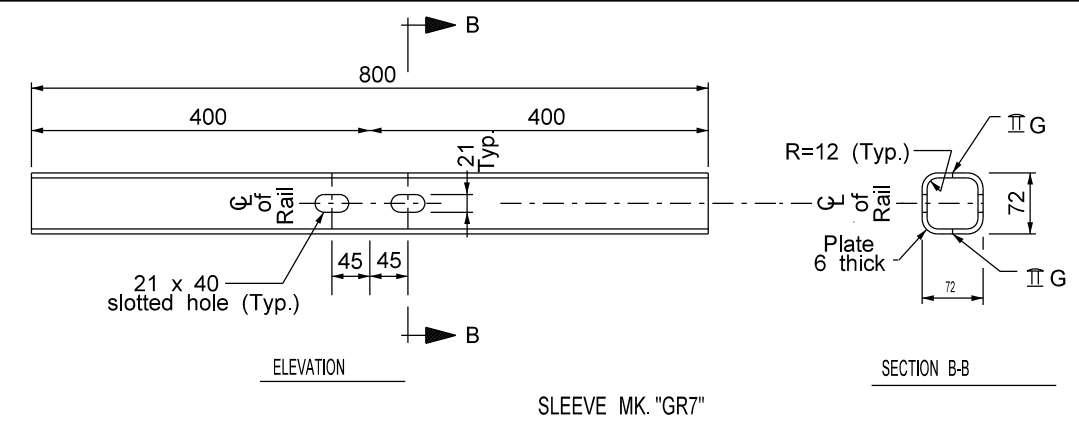


**RAIL MK. "GR4"**



**CONNECTION ANGLE MK "BA1" & "BA2"**

NOTE: MK. "BA1" SHOWN, MK. "BA2" OPPOSITE HAND



MARK	No.	DESCRIPTION	SIZE	MASS PER UNIT	TOTAL MASS
AP1		Connection plate	Plate, 12 thick As detailed	25.841	
AP2		Connection plate	Plate, 12 thick As detailed	25.841	
BA1		Connection angle	Angle, 100 x 100 x 10 As detailed	4.956	
BA2		Connection angle	Angle, 100 x 100 x 10 As detailed	4.956	
GR4		Rail - Each unit to be fabricated from:			
		Rail	HSS 88.9x88.9x4.78, 412 long-As detailed	4.971	
		End plate	Plate, 12 thick As detailed	0.541	
				4.971	
GR7		Sleeve - each unit to be fabricated from:			
		Plates	2 plates, 6 thick As detailed	9.576	
C15		Hex bolts	22φ x 165 hex. bolt c/w all metal locknut	0.739	
C16		Hex bolts	22φ x 65 hex. bolt c/w all metal locknut	0.429	
C17		Hex bolts	22 φ x 50 hex. bolt c/w all metal locknut	0.391	
C18		Hex bolts	19 φ x 38 hex. bolt - no nut	0.145	
		Plate washers	For 19 φ bolts, one per bolt Mk. C15, C16, C17 & C18	0.045	
		Lock washers	For 19/o bolts, one per bolt Mk. C18	0.019	
		Total mass			kg

**NOTES:**

- All angles and plates shall conform to the requirements of CAN/CSA-G40.21-M95 Grade 300W.
- All structural tubing shall conform to CAN/CSA-G40.21-M92 Grade 350W.
- Welding shall meet the current requirements of the American Welding Society, Structural Welding Code ANSI/AASHTO/AWS D1.5.
- All material in the above Bill shall be galvanized in accordance with CAN/CSA-G164-M92. No punching, drilling, cutting or welding will be permitted after galvanizing.
- All bolts shall conform to the requirements of ASTM A325 unless noted otherwise
- For location of dimensions "A", "B" & "C" see sheet No. 1
- Dimensions shown thus: [ ] to be filled in using field measurements.
- Field drilled holes, where previously approved by the Engineer, shall be touched up using Galvalloy.
- All scales are approximate.

NOTE: Original structural drawing sealed by J. Lukashenko P.Eng., Feb.23, 2000. It is filed in the Bridges and Structures Branch.

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NESTED W BEAM TO  
2 RAIL PL - 2 BRIDGE

SHEET NO	2 OF 2
DATE:	2002 - 09
DRAWN:	D.C.
<b>TSTB10</b>	