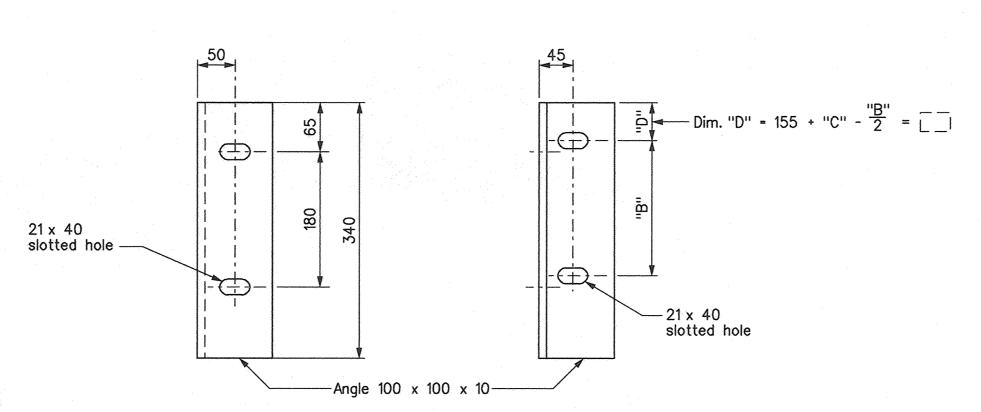


SECTION A-A

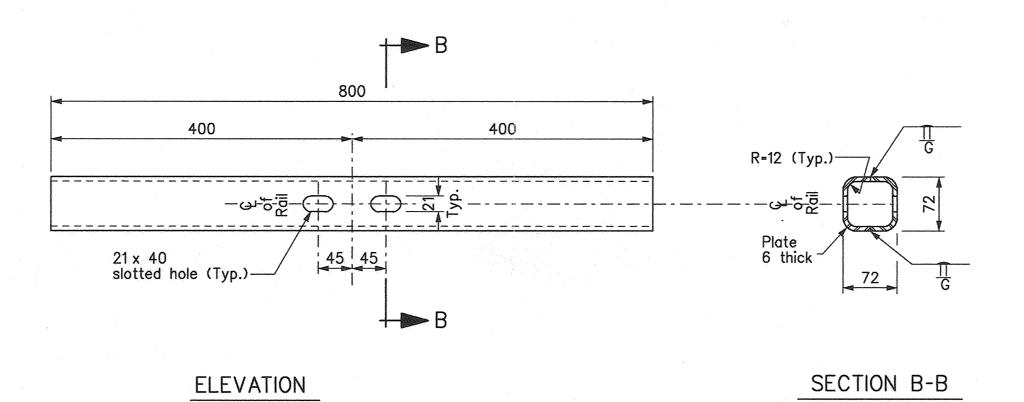
CONNECTION PLATE MK. "AP1" & "AP2"

NOTE: Mk. "AP1" shown, Mk. "AP2" opposite hand.

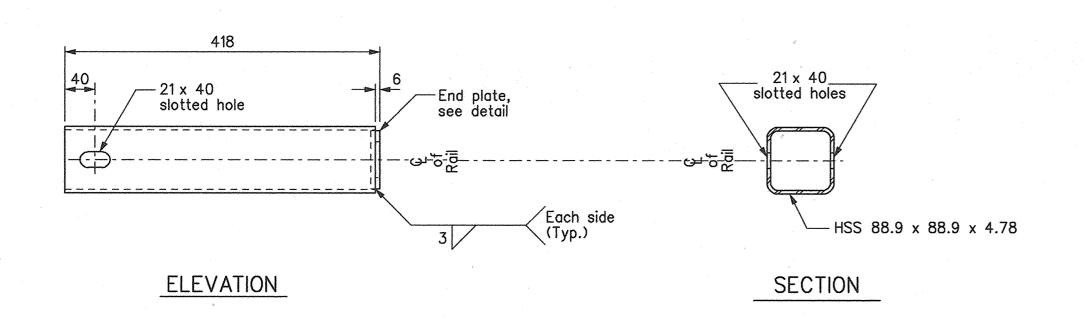


CONNECTION ANGLE MK. "BA1" & "BA2"

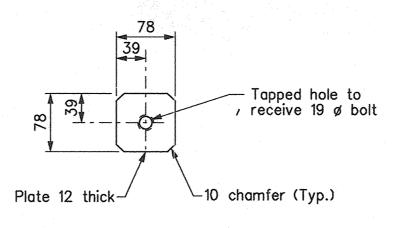
NOTE: Mk. "BA1" shown, Mk. "BA2" opposite hand.



SLEEVE MK. "GR7"



RAIL MK. "GR4"



END PLATE

MARK	No.	DESCRIPTION	SIZE	MASS PER UNIT	TOTA MAS
AP1		Connection plate	Plate, 12 thick As detailed	25.841	IVI/NO.
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		· · · · · · · · · · · · · · · · · · ·	
		Rail	HSS 88.9 x 88.9 x 4.78, 412 long - As detailed	4.971	······
· · · · · · · · · · · · · · · · · · ·		End plate	Plate, 12 thick As detailed	0.541	· · · · · · · · · · · · · · · · · · ·
1				4.971	
GR7		Sleeve - each unit to be fabricated from:			
		Plates	2 plates, 6 thick As detailed	9.576	
C15	<u></u>	Hex bolts	22 ø x 165 hex. bolt c/w all metal lock nut	0.739	
C16		Hex bolts	22 ø x 65 hex. bolt c/w all metal lock nut	0.429	
C17	-	Hex bolts	22 ø x 50 hex. bolt c/w all metal lock nut	0.391	
C18		Hex bolts	19 ø x 38 hex. bolt - no nut	0.145	
		Plate washers	For 19 ø bolts, one per bolt Mk. C15, C16, C17 & C18	0.045	
		Lock washers	For 19 ø bolts, one per bolt Mk. C18	0.019	
-					

NOTES:

- 1. All angles and plates shall conform to the requirements of CAN/CSA-G40.21-M95 Grade 300W.
- 2. 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.
- 5. All bolts shall conform to the requirements of ASTM A325 unless noted otherwise
- 6. For location of dimensions "A", "B" & "C" see sheet No. 1
- 7. Dimensions shown thus: $\begin{bmatrix} -1 \end{bmatrix}$ to be filled in using field measurements.
- 8. Field drilled holes, where previously approved by the Engineer, shall be touched up using Galvalloy.

NOTE: J. Luka filed in	Orionsher Sthen	ginal drawing iko P.Eng., Bridges a	g sealed by Feb.23, 2000. It is nd Structures Branch.						
REVISIONS				CONNECTION PLATE DETAILS W-BEAM TO 2 RAIL TL-2 RAILING					
ATE	ВҮ	DESCRIPTION		Manitoba RELEASED FOR CONSTRUC					
			TSTB11		s and nent Services and Structures Branch	Original signed by Greg Hamilton Feb.23, 2000			
				DECTON	BY:J.L	DIRECTOR OF BRII	DGES DATE		
				DESIGN	CHECKED:	scale: 1:5	SHEET No 2 of 2		
				DETAILS	BY:E.F		SITE No		