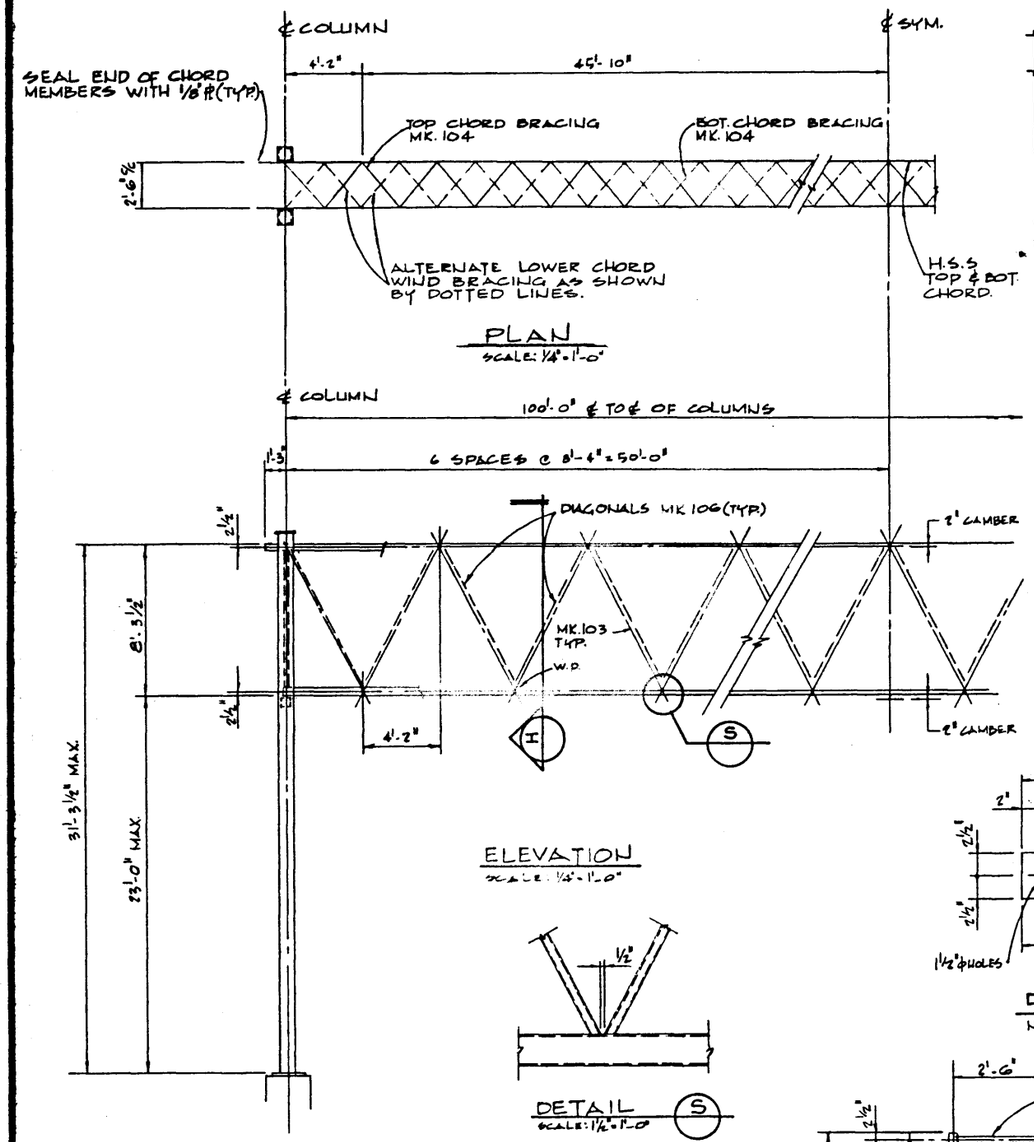

STEEL SCHEDULE FOR 100'-0" SIGN STRUCTURE			
MARK	SIZE	STEEL	REMARKS
101	HSS 5 x 5 x .188		$F_{MAX.} = \pm$ 84 K
102	HSS 5 x 5 x .188		$F_{MAX.} = \pm$ 84 K
103	HSS 3 x 3 x .188		$F_{MAX.} = \pm$ 8 K
104	HSS 3 x 3 x .188		$F_{MAX.} = \pm$ 8 K
105	HSS 3 x 3 x .188		—
106	HSS 3 x 3 x .188		—
107	HSS 3 x 3 x .188		—
201	HSS 12 x 12 x .375		$F_{MAX.} = \pm$ 102 K
202	HSS 2 1/2 x 2 1/2 x .188		$F_{MAX.} = \pm$ 19 K
203	HSS 6 x 6 x .188		—

PANEL POINT SPACING DIM. A = 8'-4".

GENERAL NOTES - APPLY TO ALL DRAWINGS

1. Materials: All steel tubing shall conform to C.S.A. 640.21M-350W. All other steel shall conform to C.S.A. 640.21 M-300 W.
2. Welding shall conform to current A.W.S. D1.1. All welds to be 1/4" unless otherwise noted.
3. Design Loading:

Wind Load	32 lbs. per sq. ft. on sign surface 40 lbs. per sq. ft. on projected area of truss members
Live Load	500 lbs. concentrated load on walkway
Dead Load	Includes weight of sign and support structure
Ice Load	1/2" of ice on face of each sign and the surface area of all members.

4. The sign panel and frame not supplied by structural steel fabricator.
5. All truss joints to be welded. Joints to be designed and detailed by the fabricator to carry forces indicated on the drawings and the weld shall be designed to resist fatigue cracking. The weld shall be continuous around the member and the welding design and details are to be approved by the Department.
6. Fabrication shall conform to current Bridge Branch Specification B10T-M.
7. Supply bolts and washers as noted. Bolts and nuts to have hex heads. Bolts to be high strength A325 friction type connections unless noted otherwise.
8. All steel shall be blast cleaned in accordance with Specification SSPC-SP-6-63T of The Steel Structures Painting Council before painting. Painting shall not commence until cleaning has been approved by the Engineer. (Refer to B10TM clause 5.1).
9. Shop Paint: All surfaces not in contact with steel or concrete shall be given one coat of paint conforming to the requirements of C.G.S.B. Specification 1-GP-166M Type III having a dry thickness of 1.5 to 2.5 mils. In addition there shall be applied one coat of aluminum paint conforming to the requirements of the C.G.S.B. Specification 1-GP-69M.

   Field Paint: Touch up all disfigurements and field bolts.
10. All shop splices shall be shown on the shop drawings for approval by the Department. All chord splices shall be radiographed by the fabricator, at his espense, and are to meet A.W.S. requirements.
11. All column to base plate welds will be tested by the Department, either by the ultrasonic method or by the magnetic particle method. Any extra testing due to repairs which may be required will be at the expense of the fabricators.
12. Electrical conduit and fixtures not to be supplied by the structural steel supplier.
13. Concrete strength = 3,000 psi @ 28 days (20 MPa).
14. Reinforcing steel shall conform to C.S.A. 850.18M Grade 400 (minimum yield strength = 400 MPa).

WORK THIS DWG. IN CONJUNCTION WITH DWG. NO. S-1163.

CARSWELL ENGINEERING LTD
CONSULTING ENGINEERS
CALGARY ALBERTA

NO.	DATE	DESCRIPTION	BY
3			
2			
1	85-05-28	DIM. REVISED FROM 4" ON 'H'-SECTION	DHQ
0	85-01-31	METRIC SPECIFICATIONS ADDED	KST
1	11 MAR 76	RELABELLED FROM CARSWELL DWG.	R.G.Q.

REVISIONS

APPROVED
CHIEF BRIDGE ENGINEER
DATE

Alberta HIGHWAYS AND TRANSPORT BRIDGE BRANCH

STANDARD SIGN BRIDGE
100'-0" SPAN
TRUSS DETAILS

DESIGNED	DRAWN BY	DATE	CHECKED BY	DATE	STREAM	LOCATION	HWY. NO.	SCALE	FILE NO.	SHEET	DWG. NO.
E.C.	R.E.B.	OCT. 75	E.F.C.	JAN. 76				AS NOTED		___ OF ___	S-1163

1 CARSWELL DWG. NO. 100-3

1 2