

BAR LIST: FOR UNSKEWED GIRDER							
MARK	SIZE	NO.	TYPE	X	Y	LENGTH	WEIGHT
S 301	3	156	A			1'-5	83
S 401	4	73	B			6'-2	301
S 402	4	73	STR.			3'-4	163
S 403	4	41	C			9'-3	253
S 404	4	37	D			3'-6	87
S 405	4	14	STR.			25'-4	237
E 501	5	4	E			7'-4	31
E 401	4	4	F			3'-4	9
E 402	4	4	G			5'-4	14
TOTAL LBS:							1,178

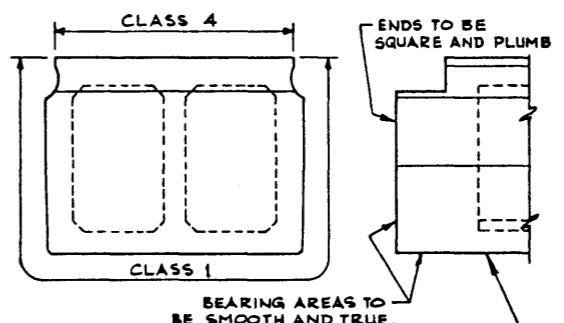
NOTE!
BARS SIMILAR TO SQUARE GIRDER BUT LENGTH AND PLACING TO SUIT SKEW.

GENERAL NOTES

- DESIGN:
- A.A.S.H.O. 1973 SPECIFICATION EXCEPT AS MODIFIED BELOW.
 - ALLOWABLE TENSION AT 80% MODULUS OF RUPTURE.
 - NO TENSION IN DECK SURFACE.
 - WEB REINFORCEMENT - ACCORDING TO A.C.I. 318-71 BUT NOT LESS THAN A.A.S.H.O. MINIMUM.
- LOADING LIVE LOAD - A.A.S.H.O. HS-25-44
0.70 WHEEL LINE PER GIRDER
- DEAD LOAD - GIRDER = 0.73 KPS/FT.
WEARING SURFACE = 0.10 KPS/FT.

- MATERIALS:
- CONCRETE IN GIRDER SHALL BE MADE OF LIGHTWEIGHT COARSE AGGREGATE AND SAND FINES.
 - CONCRETE 28 DAY STRENGTH 5000 PSI.
 - RELEASE STRENGTH 4000 PSI.
 - UNIT WEIGHT OF SEMI-LIGHTWEIGHT CONCRETE 120 LB./CU. FT.
 - PRESTRESSING STEEL SHALL BE 1/2" DIAMETER - 7 WIRE 270 K STRAND

- FABRICATION:
- GIRDERS SHALL CONFORM TO THE REQUIREMENTS OF THE ALBERTA BRIDGE BRANCH SPECIFICATION FOR THE MANUFACTURE OF PRESTRESSED CONCRETE BRIDGE UNITS.
 - FORCE IN PRESTRESSING STEEL:
INITIAL TENSIONING LOAD = 28.73 K/STRAND
DESIGN LOAD AFTER LOSSES = 23.16 K/STRAND
- ERECTION:
- LIFTING FORCE AT EACH HOOK SHALL NOT EXCEED 35° FROM THE VERTICAL. GIRDER SURFACE MUST BE LEVEL AT ALL TIMES.
 - CALCULATED WEIGHT OF ONE GIRDER IS 37,030 LBS.



FABRICATOR'S NAME, YEAR OF MANUFACTURE, SERIAL NUMBER OF UNIT AND "HS-25" TO BE CAST INTO BOTTOM OF SLAB IN 2" LETTERS.

GIRDER FINISHES

APPROVED				Alberta HIGHWAYS AND TRANSPORT BRIDGE BRANCH			
R.G.Q. D.K.D.				50 FT. TYPE RD-36 INTERIOR GIRDER SEMI-LIGHTWT. CONCRETE			
REVISIONS				CHIEF BRIDGE ENGINEER			
NO.	DATE	DESCRIPTION	BY	DATE	STREAM	LOCATION	HWY. NO.
DESIGNED	DRAWN BY	DATE	CHECKED BY	DATE	SCALE	FILE NO.	SHEET
	V.G.B.	MAY 77			SHOWN		5-1263