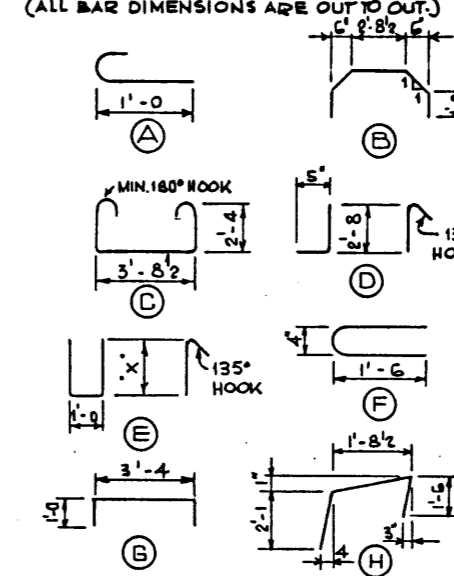


**BAR TYPES N.T.S.**  
(ALL BAR DIMENSIONS ARE OUT TO OUT.)



**BAR LIST: FOR UNSKEWED GIRDER**

MARK	SIZE	NO.	TYPE	X	Y	LENGTH	WEIGHT
S 301	3	54	A			1'-5	29
S 401	4	49	B			6'-2	202
S 402	4	49	STR			3'-4	109
S 403	4	29	C			9'-3	179
S 404	4	25	D			3'-6	58
S 405	4	8	STR			34'-8	185
E 401	4	4	F			3'-4	9
E 402	4	4	G			5'-4	14
E 501	5	2	E	2'-8 1/2		7'-4	15
E 502	5	2	E	3'-8		9'-3	19
C 401	4	3	STR			34'-8	69
C 501	5	46	H			5'-4	256

\* ASSUMED 4 POSTS. TOTAL LBS.: 1,144

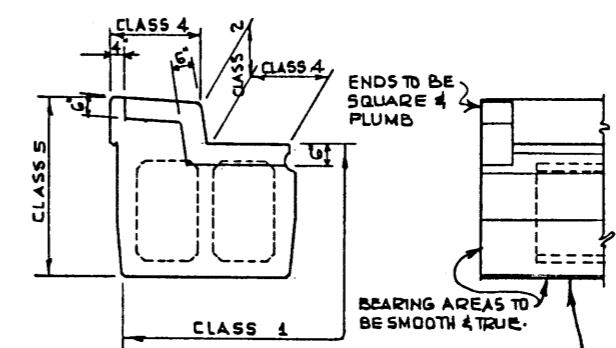
**GENERAL NOTES**

- 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-20-44
  - 0.70 WHEEL LINE PER GIRDER
  - DEAD LOAD - GIRDER = 1.05 KIPS/FT.
  - WEARING SURFACE = 0.10 KIPS/FT.

- MATERIALS:
- CONCRETE IN GIRDER SHALL BE MADE OF LIGHTWEIGHT COARSE AGGREGATE AND SAND FINES.
  - CONCRETE IN CURB SHALL BE MADE OF STANDARD WEIGHT AGGREGATES.
  - CONCRETE 28 DAY STRENGTH 5,000 PSI.
  - RELEASE STRENGTH 4,000 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 = 25.73 K/STRAND; DESIGN LOAD AFTER LOSSES = 24.13 K/STRAND
  - CURB TO BE CAST MONOLITHICALLY WITH GIRDER.
  - ANCHOR BOLT ASSEMBLIES SHALL BE CAST IN GIRDER AT SPACINGS AS REQUIRED.

- 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 35,740 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**

1/2" - 1'-0"

APPROVED				Alberta HIGHWAYS AND TRANSPORT BRIDGE BRANCH			
CHIEF BRIDGE ENGINEER				35 FT. TYPE RD-36 CURB GIRDER SEMI-LIGHTWT. CONCRETE			
REVISIONS				DATE			
DESIGNED	DRAWN BY	DATE	CHECKED BY	DATE	STREAM	LOCATION	HPY. NO.
R.G.Q.	V.G.B.	APR. 77					SCALE
A.C.K.							FILE NO.
							SHEET
							OF
							DWG. NO.
							5-1262