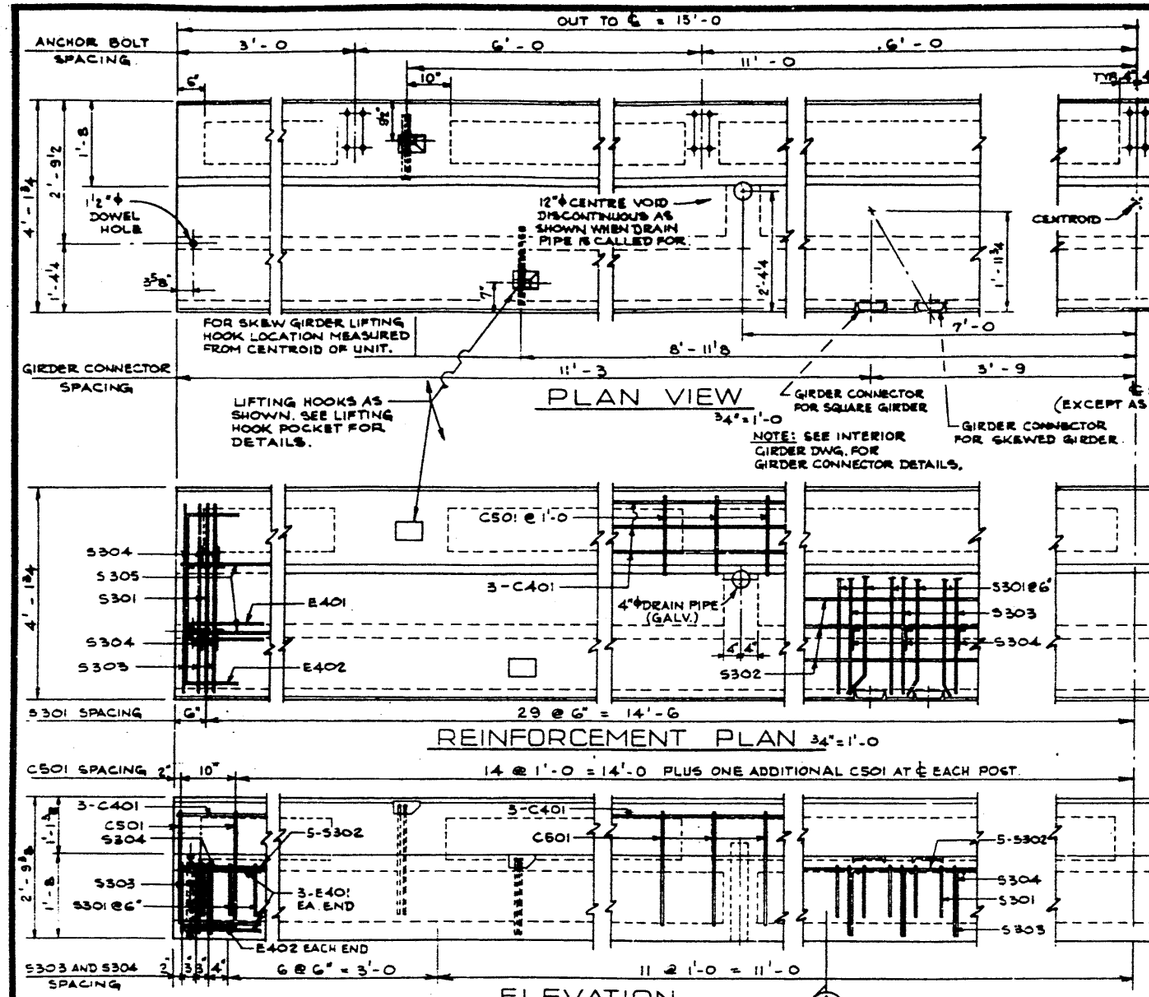
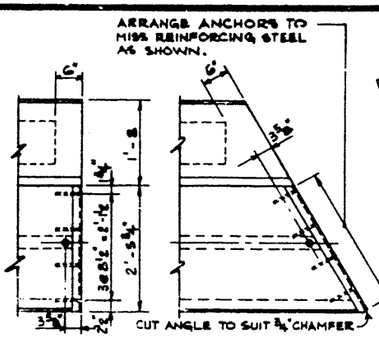
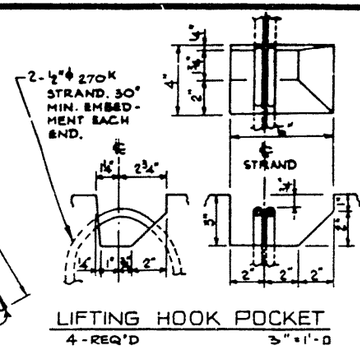






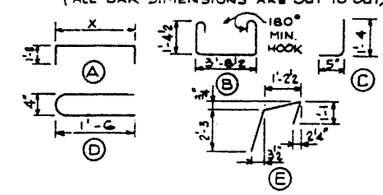
BAR LIST: FOR UNSKEWED GIRDER

MARK	SIZE	NO	TYPE	X	Y	LENGTH	WEIGHT
S 301	3	59	A	3'-6½		8'-9	128
S 302	3	5	STR.			29'-8	56
S 303	3	41	B			7'-4	113
S 304	3	80	C			2'-1	63
S 305	3	2	STR.			29'-4	22
E 401	4	6	D			3'-4	18
E 402	4	2	A	3'-4		5'-4	7
C 401	4	3	STR.			29'-8	59
C 501	5	35	E			4'-7	167

TOTAL LBS: 628

BAR TYPES N.T.S.

(ALL BAR DIMENSIONS ARE OUT TO OUT)



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 ONE WHEEL LINE PER GIRDER
  DEAD LOAD - GIRDER = 0.663 KIPS/FT.
  WEARING SURFACE = 0.063 KIPS/FT.

MATERIALS:

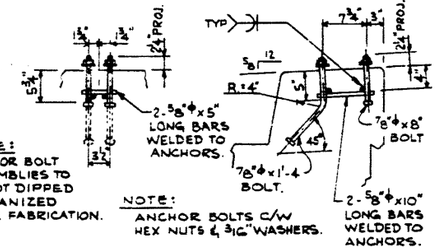
- CONCRETE IN GIRDER SHALL BE MADE OF LIGHTWEIGHT COARSE AGGREGATE AND SAND FINES.
- CONCRETE 28 DAY STRENGTH 5,000 PSI.
- RELEASE STRENGTH 4,000 PSI.
- UNIT WEIGHT OF SEMI-LIGHTWEIGHT CONCRETE 120 LB./CU. FT.
- PRESTRESSING STEEL SHALL BE 1/2" DIAMETER - 7 WIRE 270 K STRAND.

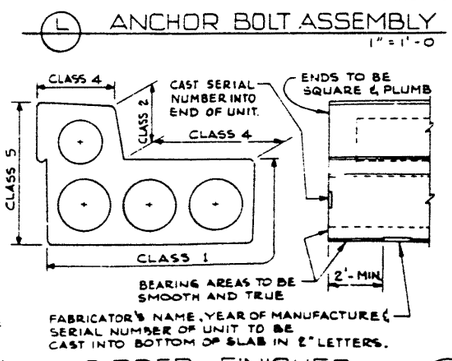
FABRICATION:

- 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 = 28.73 K/STRAND
  DESIGN LOAD AFTER LOSSES = 23.01 K/STRAND
- CURB TO BE CAST MONOLITHICALLY WITH GIRDER.
- ANCHOR BOLT ASSEMBLIES SHALL BE CAST IN GIRDER AT SPACINGS AS SHOWN.
- BEND OR SHIFT REINFORCING WIRE REQUIRED TO CLEAR GIRDER CONNECTORS, LIFTING HOOKS & ANCHOR BOLT ASSEMBLIES. SUFFICIENT REINFORCING TO REMAIN.

ERECTION:

- ANY GAP SPACE BETWEEN CONNECTORS SHALL BE FILLED WITH WASHERS.
- CALCULATED WEIGHT OF ONE GIRDER IS 20,580 LBS.





SUPERSEDED

SUPERSEDED BY S-1206-74 (1)

NO.	DATE	DESCRIPTION	BY
1			
2			
3			
4			
5			

REVISIONS

APPROVED

DATE April 1, 1974

Alberta HIGHWAYS AND TRANSPORT BRIDGE BRANCH

30 FT. TYPE VS-20 CURB GIRDER SEMI-LIGHTWT. CONCRETE

DESIGNED	DRAWN BY	DATE	CHECKED BY	DATE	STRUCT.	LOCATION	HWY NO.	SCALE	FILE NO.	SHEET	DWG. NO.
R G Q	V G B	FEB./74						SHOWN			S-1206