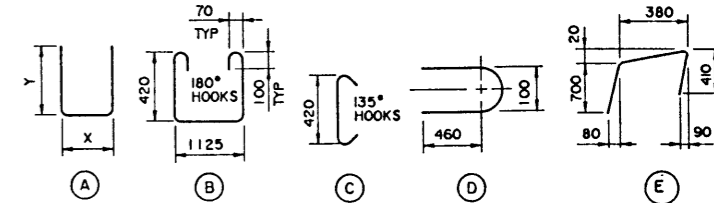


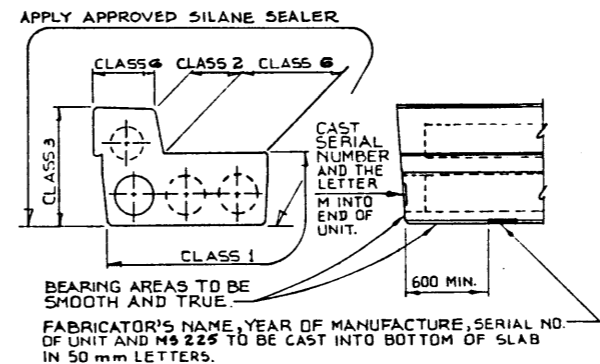
BAR LIST: FOR SQUARE GIRDER							
MARK	SIZE	NO	TYPE	X	Y	LENGTH	MASS
C1002	10	3	STR			7 900	19
C1008	10	2	A	310	600	1 510	2
C1501	15	39	E			1 455	89
						1 455	89
G1001	10	36	A	1 125	300	1 725	49
G1003	10	37	B			2 220	64
G1004	10	72	C			620	35
G1006	10	6	D			1 020	5
G1007	10	2	A	1 000	300	1 600	3
G1008	10	5	STR			7 900	31
G1009	10	2	STR			7 800	12
						TOTAL kg :	309

BAR TYPES
(ALL BAR DIMENSIONS ARE OUT TO OUT)

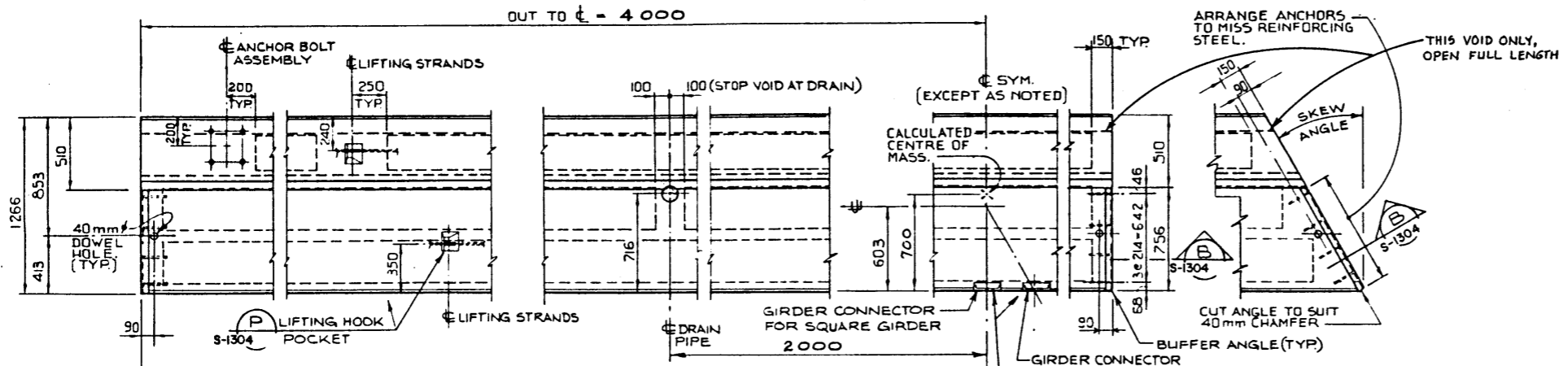


GENERAL NOTES

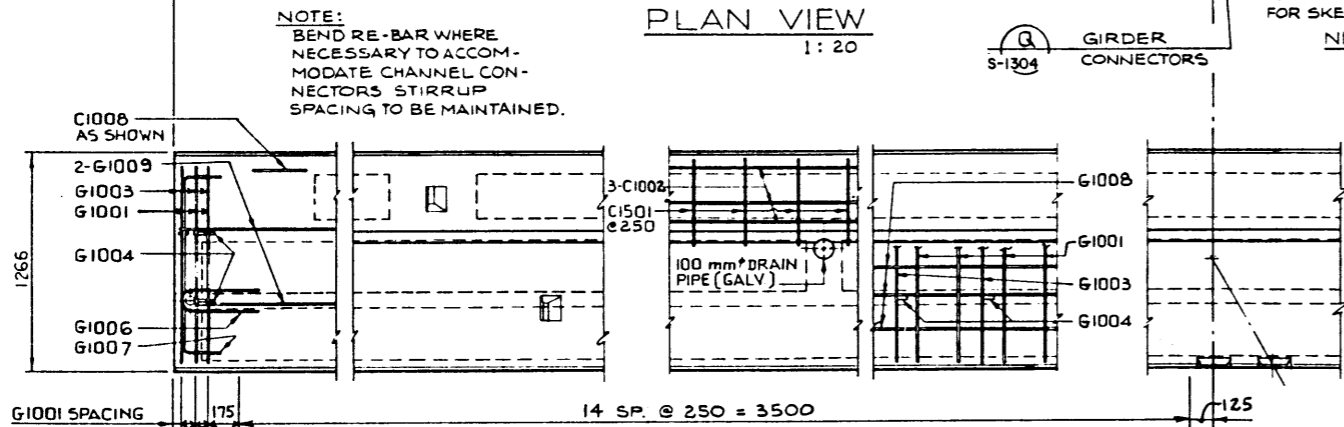
- ALL DRAWING REFERENCES ARE TO CURRENT DRAWINGS.
- DESIGN**
- AASHTO 1973 SPECIFICATIONS PLUS INTERIMS TO 1976 EXCEPT AS MODIFIED BELOW:
 - ALLOWABLE TENSION AT MIDSPAN IS 80% OF MODULUS OF RUPTURE.
 - NO TENSION ALLOWED IN DECK SURFACE.
 - WEB REINFORCEMENT - ACCORDING TO ACI 318-71, BUT NOT LESS THAN AASHTO MINIMUM.
 - CAPACITY REDUCTION FACTORS ACCORDING TO CSA S6-1974.
- **LOADING:**
 - LIVE LOAD - CSA CAN 3-S6-M78; MS 225-77
 - ONE WHEEL LINE PER GIRDER
 - DEAD LOAD - GIRDER = 1.02 1/m
 - WEARING SURFACE AND BRIDGERAIL = 0.11 1/m
- **MATERIALS**
 - CONCRETE IN GIRDER SHALL BE MADE OF LIGHTWEIGHT COARSE AGGREGATE AND SAND FINES.
 - 28 DAY CONCRETE STRENGTH - 35 MPa
 - RELEASE STRENGTH - 28 MPa
 - UNIT WEIGHT OF SEMI-LIGHT WEIGHT CONCRETE 1920 kg/m³.
 - PRESTRESSING STEEL SHALL BE 12.7 mm # 7 WIRE LOW RELAXATION STRAND (f_s = 1860 MPa).
 - REINFORCING STEEL SHALL BE GRADE 400 (YIELD STRENGTH OF GRADE 300 USED IN DESIGN TO ALLOW TACK WELDING OF SHEAR REINFORCEMENT).



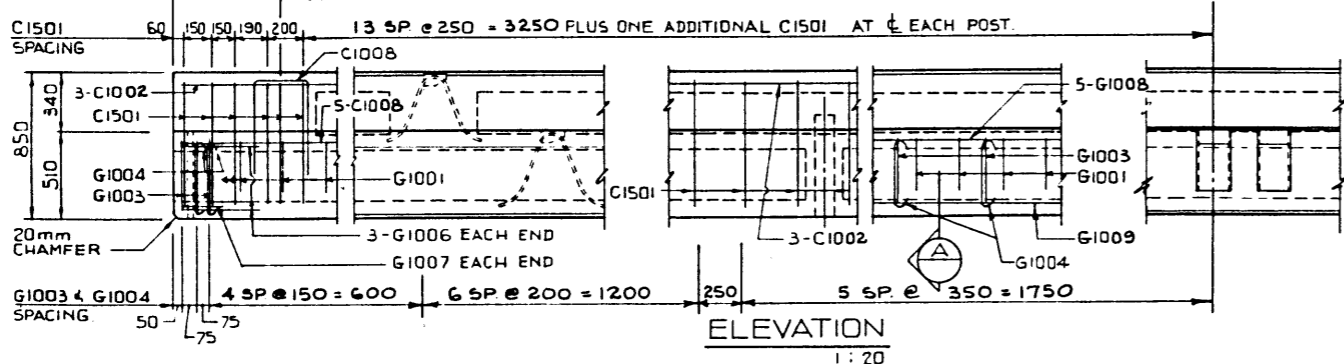
GIRDER FINISHES
(BY FABRICATOR) 1:25



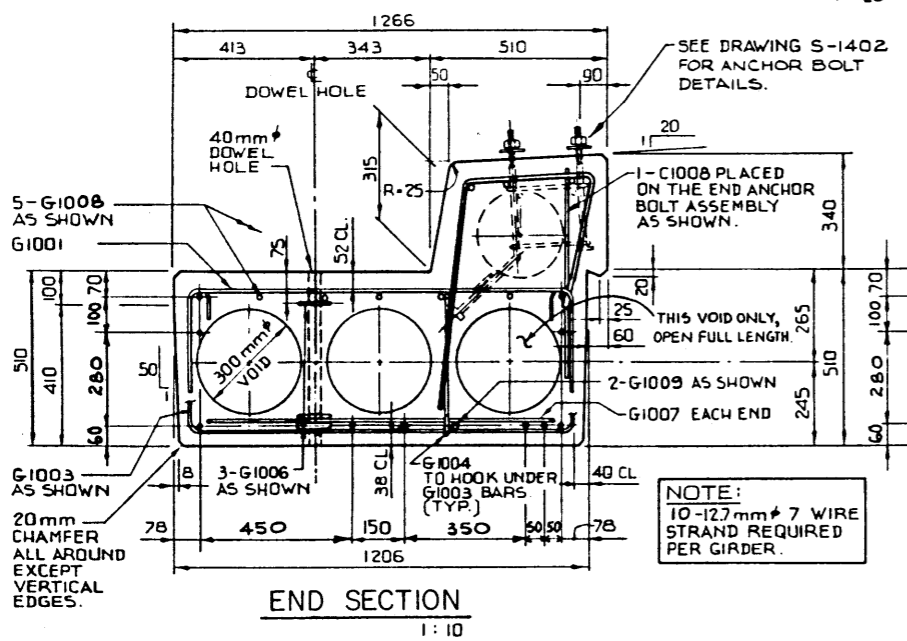
PLAN VIEW
1:20



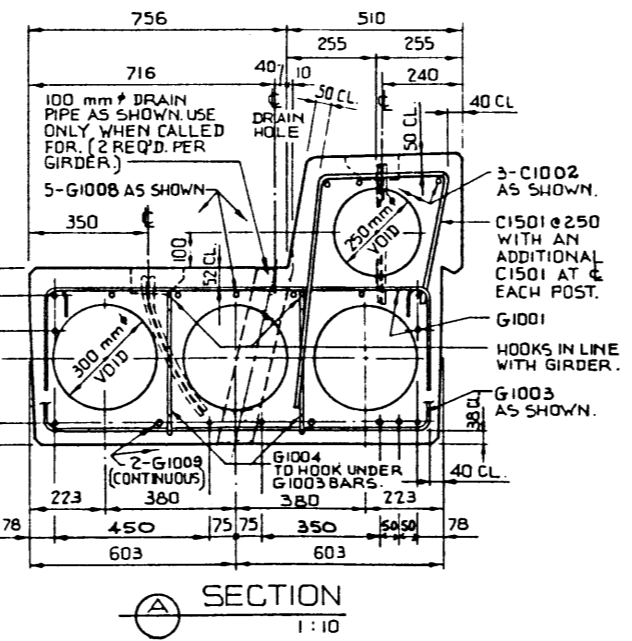
REINFORCEMENT PLAN
1:20



ELEVATION
1:20



END SECTION
1:10



SECTION
1:10

REV	DATE	DESCRIPTION	BY
88-06-21		REDRAWN FROM S-1305	D H O

DESIGNED	DRAWN	DATE	CHECKED	DATE
R W L	V G B W S	88-06-21		

APPROVED
[Signature]
EXECUTIVE DIRECTOR
BRIDGE ENGINEERING

Alberta TRANSPORTATION AND UTILITIES
BRIDGE ENGINEERING BRANCH

PRESTRESSED CONCRETE
8 m TYPE SM-510
CURB GIRDER

STREAM	LOCATION	HIGHWAY	FILE	SHEET	DRAWING
				2 of 3	S-1305-88