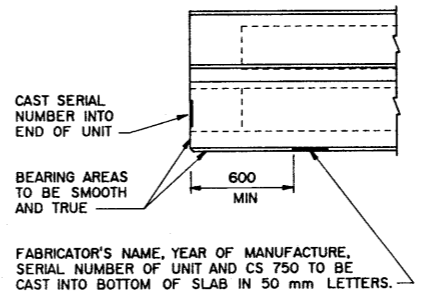
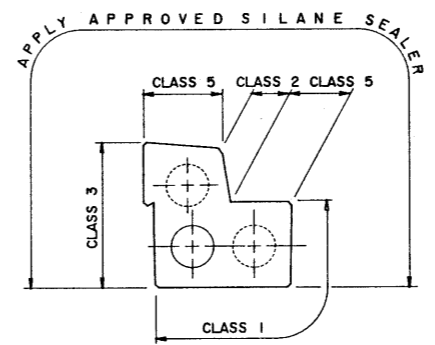
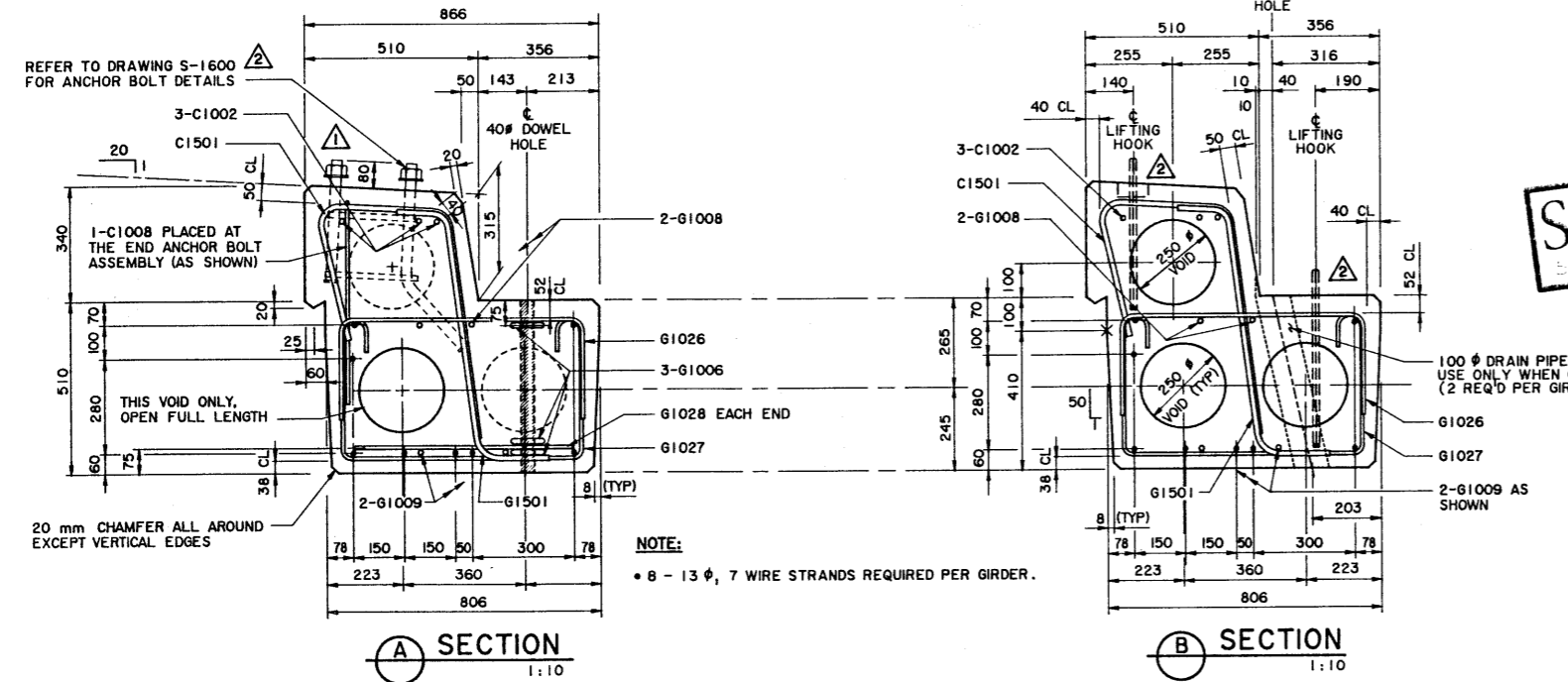
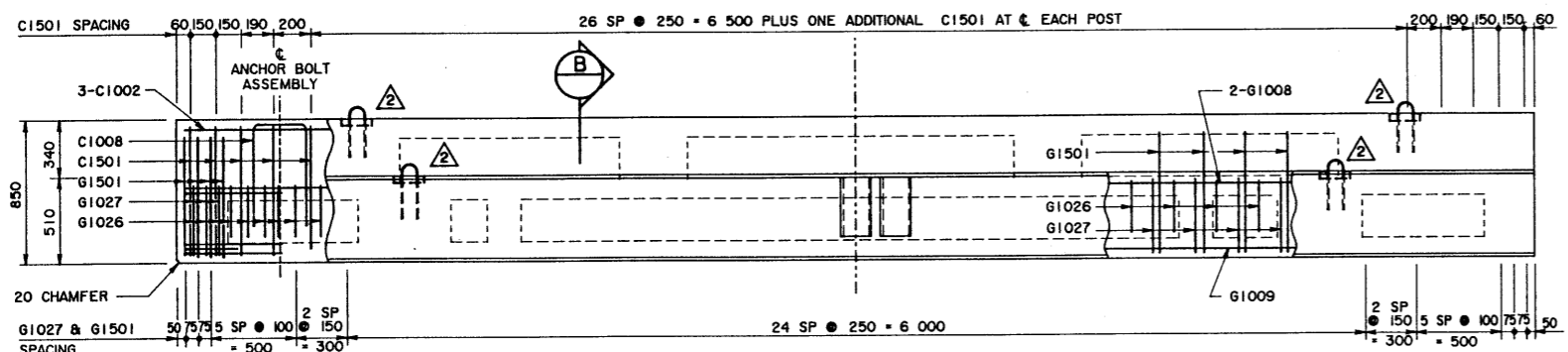
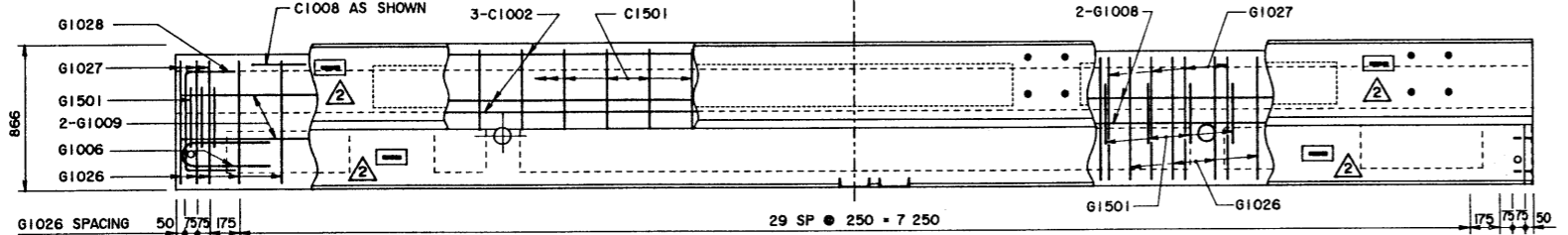


NOTE:
BEND REINFORCING BAR WHERE NECESSARY TO ACCOMMODATE CHANNEL CONNECTORS. STIRRUP SPACING TO BE MAINTAINED.

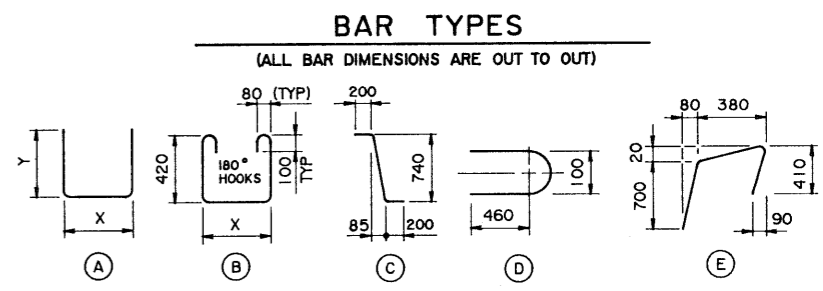
PLAN VIEW
1:20



GIRDER FINISHES
(BY FABRICATOR) 1:20

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
G1006	10	6	D			1 020	5
G1008	10	2	STR			7 900	12
G1009	10	2	STR			7 800	12
G1026	10	36	A	725	300	1 325	37
G1027	10	43	B	725		1 820	61
G1028	10	2	A	600	300	1 200	2
G1501	15	43	C			1 140	77

TOTAL kg : 316



GENERAL NOTES

- ALL DRAWING REFERENCES ARE TO CURRENT DRAWINGS.
- DESIGN
 - CAN/CSA-S6-88 SPECIFICATIONS EXCEPT AS MODIFIED BELOW:
 - ALLOWABLE TENSION AT MIDSPAN IS 40% OF MODULUS OF RUPTURE (SEVERE EXPOSURE CONDITIONS).
 - NO TENSION ALLOWED IN DECK SURFACE.
- LOADING:
 - LIVE LOAD - CAN/CSA-S6-88; CS-750
0.8 WHEEL LINES PER GIRDER
 - DEAD LOAD - GIRDER = 0.86 t/m
 - WEARING SURFACE = 0.09 t/m
- MATERIALS
 - CONCRETE SHALL CONTAIN SILICA FUME AND BE MADE OF LIGHTWEIGHT COARSE AGGREGATE AND NATURAL SAND FINES. UNIT WEIGHT OF SEMI-LIGHTWEIGHT CONCRETE SHALL BE 1920 kg/m³.
 - 28 DAY CONCRETE STRENGTH - 35 MPa
 - RELEASE STRENGTH - 28 MPa
 - PRESTRESSING STEEL SHALL BE 13 φ, 7 WIRE LOW RELAXATION STRAND (f_{pu} = 1860 MPa).
 - REINFORCING STEEL SHALL BE GRADE 400W (YIELD STRENGTH OF GRADE 300 USED IN DESIGN TO ALLOW TACK WELDING OF SHEAR REINFORCEMENT).
- FABRICATION
 - GIRDERS SHALL CONFORM TO THE CURRENT REQUIREMENTS OF THE BRIDGE MATERIALS SPECIFICATION FOR THE MANUFACTURE OF PRESTRESSED CONCRETE BRIDGE UNITS (SPEC B190).
 - FORCE IN PRESTRESSING STEEL:
 - INITIAL TENSIONING LOAD = 129 kN/STRAND
 - DESIGN LOAD AFTER LOSSES = 113 kN/STRAND
 - CURB SHALL BE CAST MONOLITHICALLY WITH GIRDER.
 - ANCHOR BOLT ASSEMBLIES SHALL BE CAST IN GIRDER AT SPACINGS SHOWN ON DRAWING S-1540.
 - ALL GALVANIZING SHALL CONFORM TO ASTM SPEC A123 OR A153 AS APPLICABLE.
 - BEND OR SHIFT REINFORCING WHERE REQUIRED TO CLEAR GIRDER CONNECTOR AND LIFTING HOOK ASSEMBLIES. STIRRUP SPACING SHALL BE MAINTAINED.
- ERECTION
 - ANY FREE SPACE BETWEEN CONNECTORS SHALL BE FILLED WITH DROP-IN WASHERS.
 - CALCULATED MASS OF ONE GIRDER IS 7.3 t.
- WORK THESE DRAWINGS TOGETHER : S-1538, S-1539 AND S-1540.

SUPERSEDED
BY REVISION

SUPERSEDED

DESIGNED		LEA	DRAWN		VMV	DATE		90-07-02	CHECKED		TJS	DATE		90-08-23	STREAM		LOCATION		HIGHWAY		FILE		SHEET		DRAWING				
94-04-05		ANCHOR BOLT REFERENCE & LIFTING HOOK		LEA		92-01-10		ANCHOR BOLT PROJ. CONCR MATERIALS NOTE		DHO		ORIGINAL DRAWING APPROVED BY		N. BOYD		EXECUTIVE DIRECTOR BRIDGE ENGINEERING		AUG 23, 1990		Albera TRANSPORTATION AND UTILITIES BRIDGE ENGINEERING BRANCH		PRESTRESSED CONCRETE		8 m TYPE SC-510		CURB GIRDER			
REV		DATE		REVISIONS		BY		DESIGNED		DRAWN		DATE		CHECKED		DATE		STREAM		LOCATION		HIGHWAY		FILE		SHEET		DRAWING	
								LEA		VMV		90-07-02		TJS		90-08-23								2 of 4		S-1539			