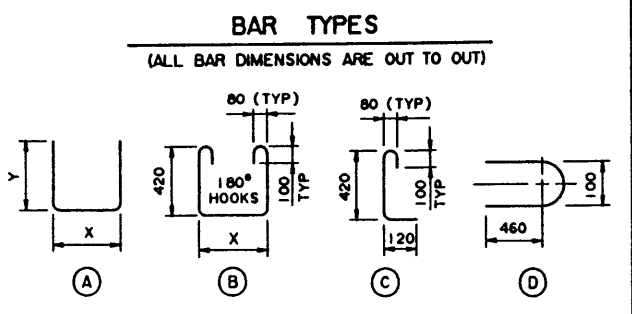
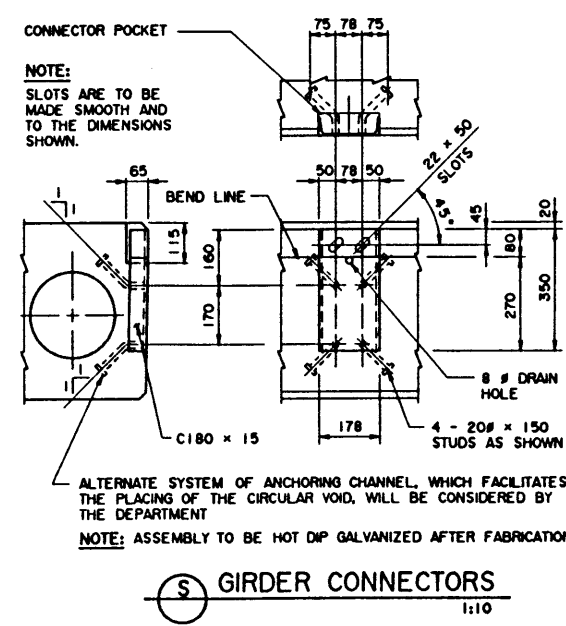
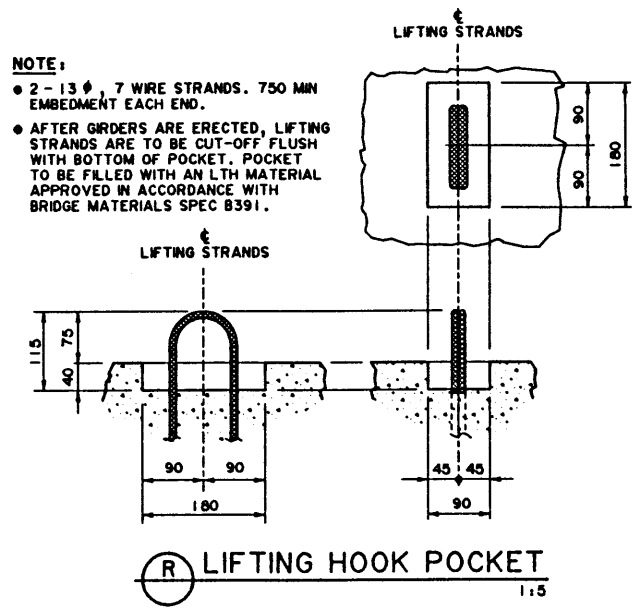
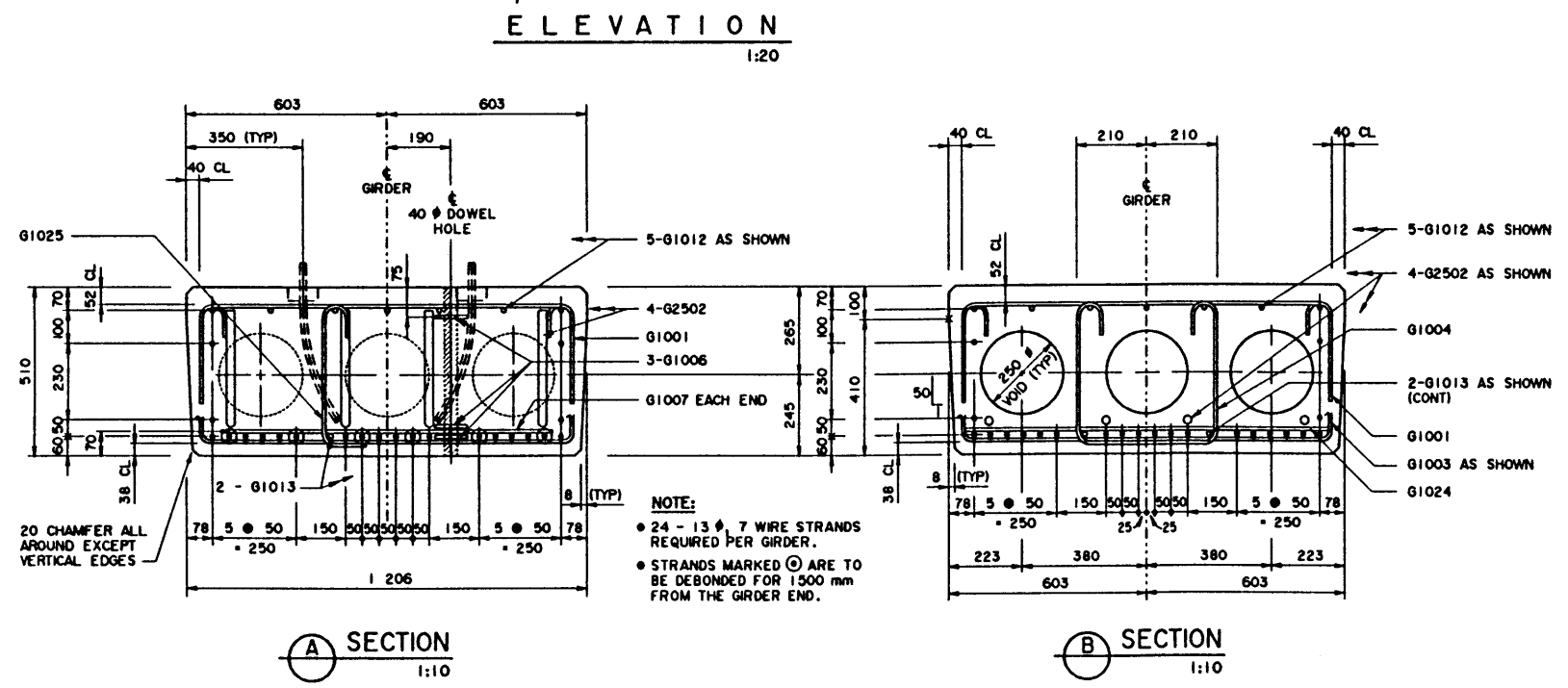
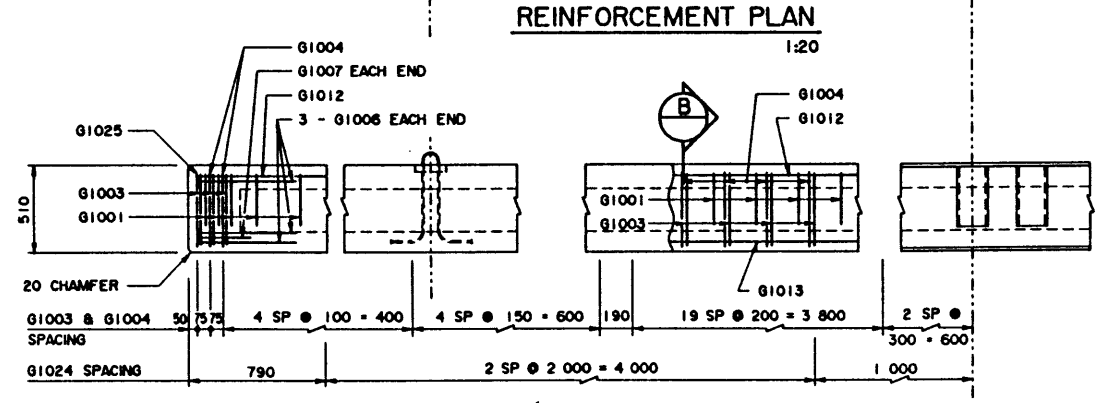
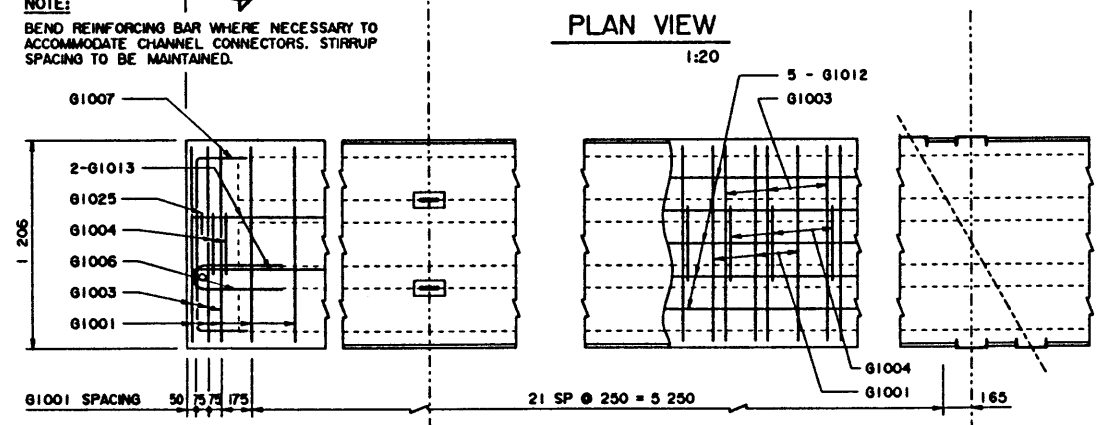


**BAR LIST: FOR SQUARE GIRDER**

MARK	SIZE	NO	TYPE	X	Y	LENGTH	MASS
G1001	10	51	A	1 125	300	1 725	69
G1003	10	65	B	1 125		2 220	113
G1004	10	63	B	420		1 520	75
G1006	10	6	D			1 080	5
G1007	10	2	A	1 000	300	1 600	3
G1012	10	5	STR			11 480	45
G1013	10	2	STR			11 380	18
G1024	10	6	STR			1 100	5
G1025	10	2	C			670	1
G2502	25	4	A	11 430	350	12 130	190

TOTAL kg: 524



- 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 ONE WHEEL LINE PER GIRDER
    - DEAD LOAD - GIRDER = 0.93 t/m
    - WEARING SURFACE = 0.24 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/m<sup>3</sup>.
  - 28 DAY CONCRETE STRENGTH - 35 MPa
  - RELEASE STRENGTH - 28 MPa
  - PRESTRESSING STEEL SHALL BE 13 #, 7 WIRE LOW RELAXATION STRAND (f<sub>pu</sub> = 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 SPECIFICATIONS FOR BRIDGE CONSTRUCTION SECTION 7 - PRECAST CONCRETE UNITS.
  - FORCE IN PRESTRESSING STEEL:
    - INITIAL TENSIONING LOAD = 129 kN/STRAND
    - DESIGN LOAD AFTER LOSSES = 104 kN/STRAND
  - ALL GALVANIZING SHALL CONFORM TO ASTM SPEC A123.
  - BEND OR SHIFT REINFORCING WHERE REQUIRED TO CLEAR GIRDER CONNECTORS AND LIFTING HOOK ASSEMBLIES. STIRRUP SPACING IS TO BE MAINTAINED FOR CONNECTOR AND LIFTING HOOK LOCATIONS. SEE DWG S-1576.
- ERECTION**
- ANY FREE SPACE BETWEEN CONNECTORS SHALL BE FILLED WITH DROP-IN WASHERS.
  - CALCULATED MASS OF ONE GIRDER IS 10.94 t.

		ORIGINAL DRAWING APPROVED BY <b>J. RAMOTAR</b> EXECUTIVE DIRECTOR BRIDGE ENGINEERING MAY 24, 1994		<b>Alberta TRANSPORTATION AND UTILITIES</b> BRIDGE ENGINEERING BRANCH <b>PRESTRESSED CONCRETE</b> <b>11.58 m TYPE SC-510</b> <b>INTERIOR GIRDER</b>	
95-07-10 SPECIFICATION NOTE REV DATE REVISIONS BY	LEA VMV 94-04-21 SBD 94-05-16	STREAM LOCATION HIGHWAY FILE SHEET DRAWING	1 of 4 S-1574	FILE NO: 95-07-10-1111 UPDATE JUL 14, 1995 FILE 1400 95	