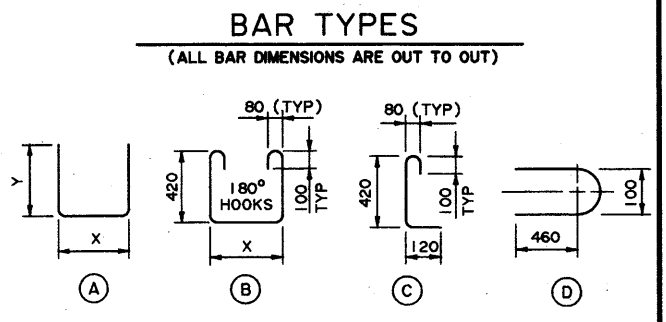
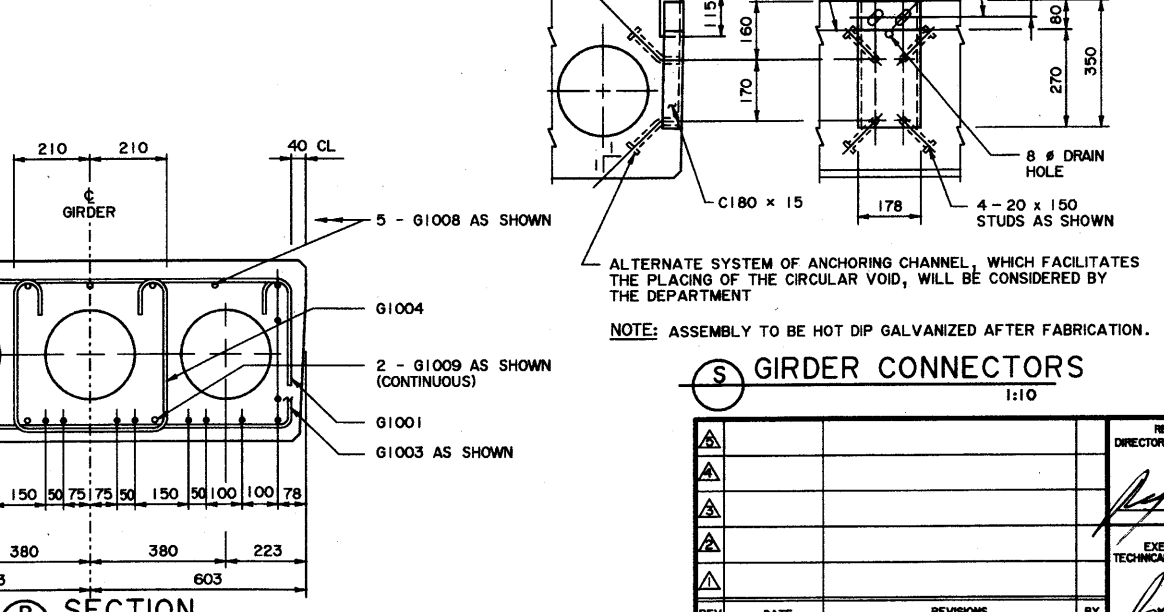
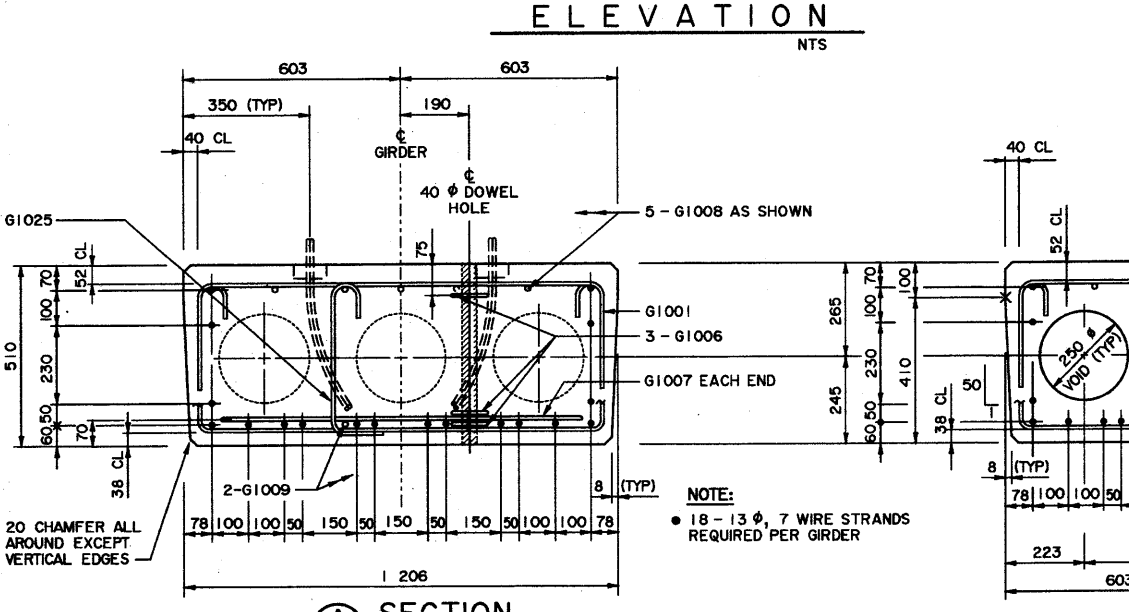
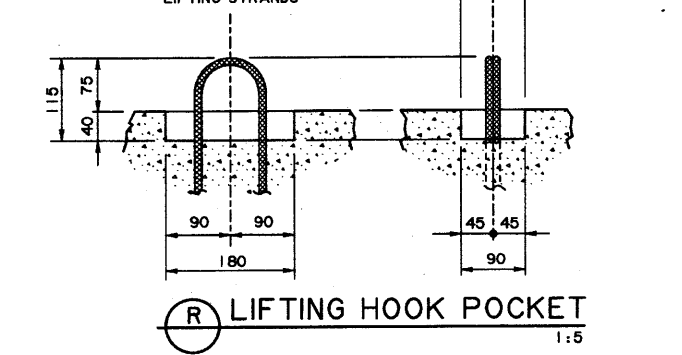
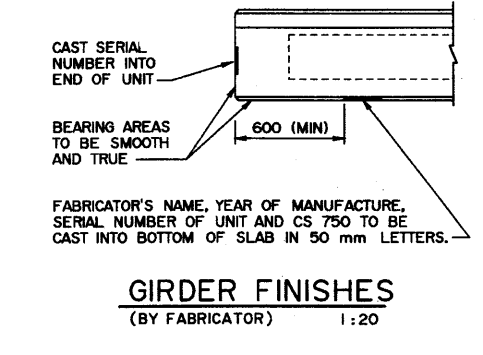
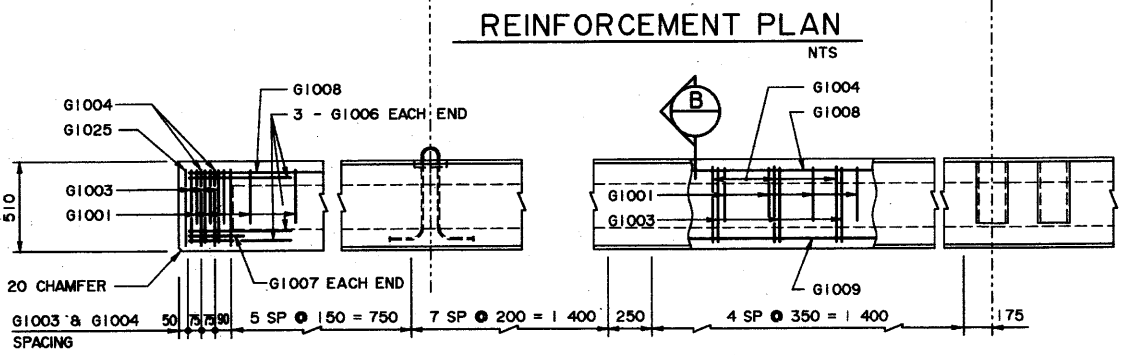
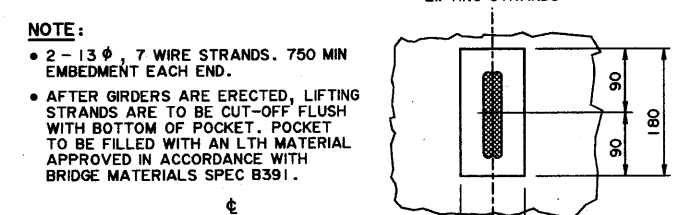
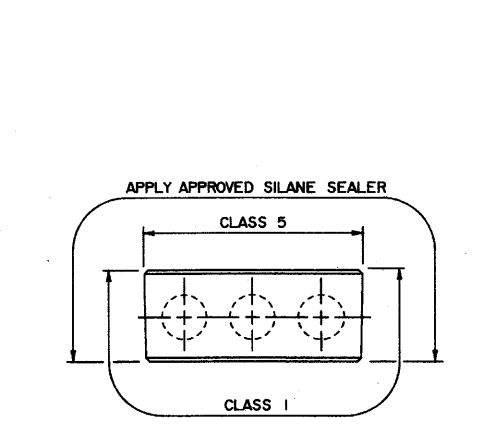
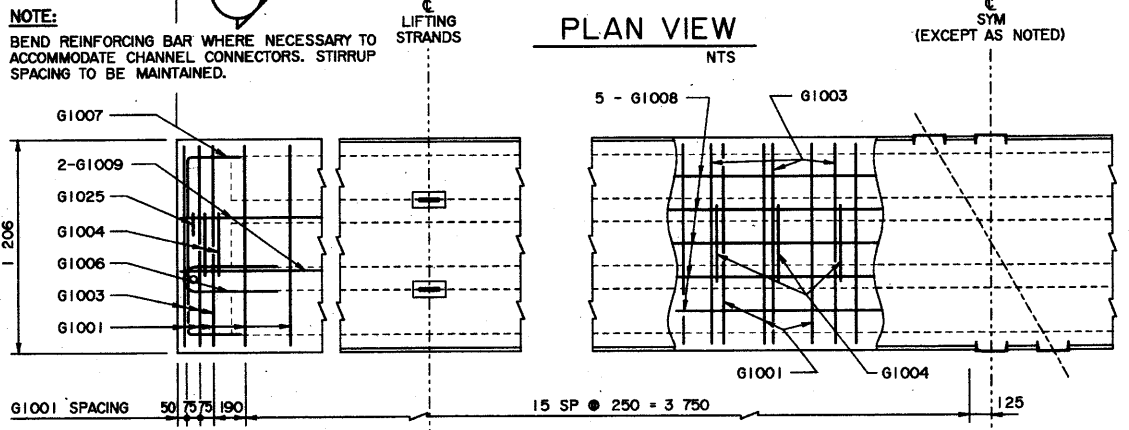
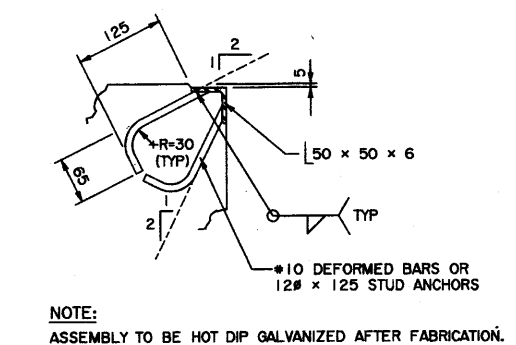
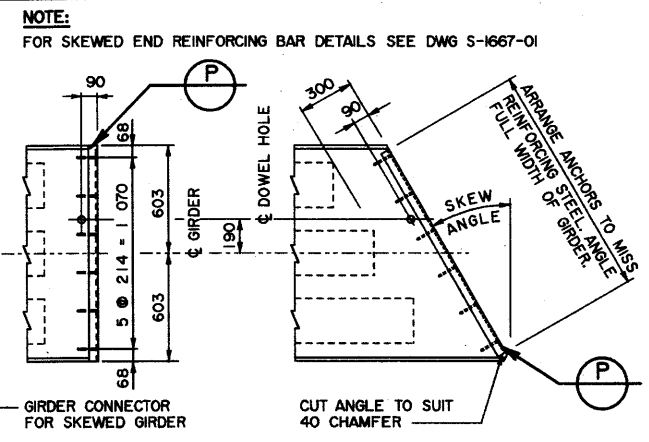
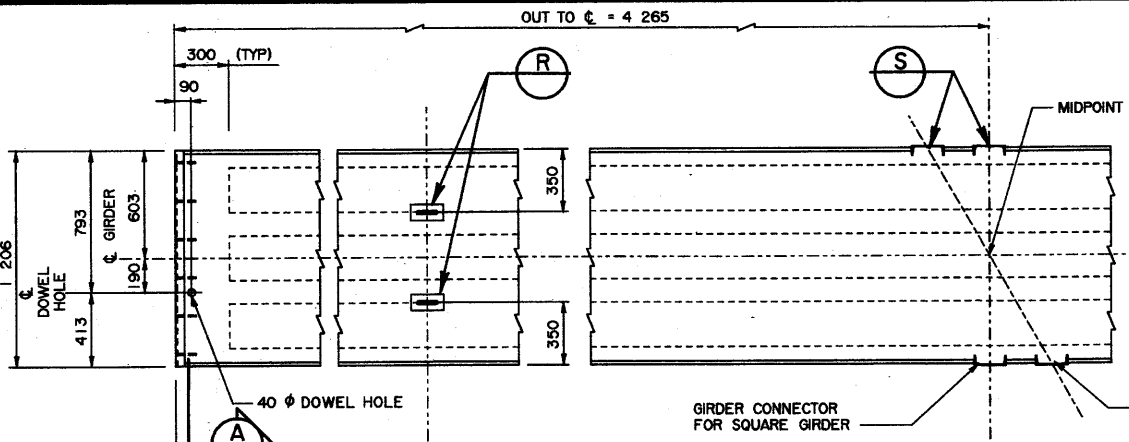
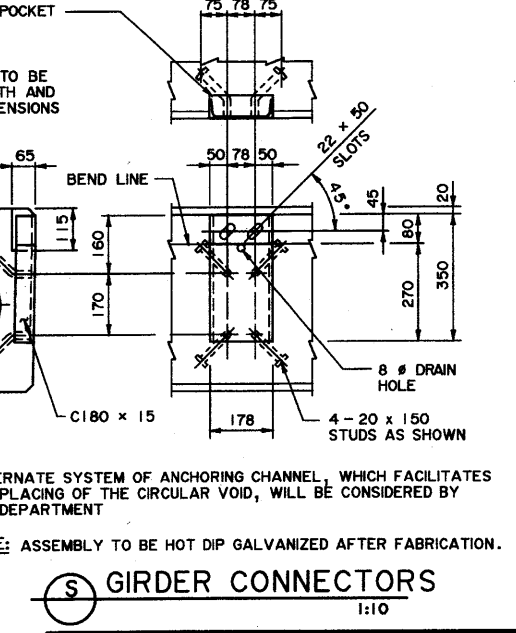


BAR LIST: FOR SQUARE GIRDER							
MARK	SIZE	NO	TYPE	X	Y	LENGTH	MASS
G1001	10	38	A	1 125		1 725	51
G1003	10	42	B	1 125		2 220	73
G1004	10	40	B	420		1 520	48
G1006	10	6	D			1 080	5
G1007	10	2	A	1 000	300	1 600	3
G1008	10	5	STR			8 430	33
G1009	10	2	STR			8 330	13
G1025	10	2	C			670	1
TOTAL kg :							227



- 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/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 SPECIFICATIONS FOR BRIDGE CONSTRUCTION SECTION 7 - PRECAST CONCRETE UNITS.
 - FORCE IN PRESTRESSING STEEL:
 - INITIAL TENSIONING LOAD = 129 kN/STRAND
 - DESIGN LOAD AFTER LOSSES = 108 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-1667-01
 - ERECTION**
 - ANY FREE SPACE BETWEEN CONNECTORS SHALL BE FILLED WITH DROP-IN WASHERS.
 - CALCULATED MASS OF ONE GIRDER IS 8.11 t.

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 - CALCULATED MASS OF ONE GIRDER IS 8.11 t.
- WORK THESE DRAWINGS TOGETHER : S-1666-01 AND S-1667-01



REV	DATE	REVISIONS	BY
DESIGNER		CHECKER	
DATE			

RECOMMENDED
DIRECTOR BRIDGE ENGINEERING

APPROVED
EXECUTIVE DIRECTOR
TECHNICAL STANDARDS BRANCH

Alberta TRANSPORTATION

PRESTRESSED CONCRETE
8.53 m TYPE SC-510
INTERIOR GIRDER

DATE 2001-04-30 SHEET 1 of 2 DRAWING S-1666-01

S1666-01