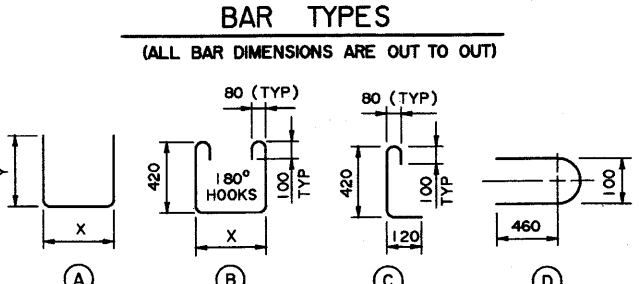


BAR LIST: FOR SQUARE GIRDER							
MARK	SIZE	NO	TYPE	X	Y	LENGTH	MASS
G1001	10	51	A	1 125	300	1 725	69
G1003	10	65	B	1 125		2 220	113
G1004	10	63	B	420		1 520	75
G1006	10	6	D			1 080	5
G1007	10	2	A	1 000	300	1 600	3
G1012	10	5	STR			1 1480	45
G1013	10	2	STR			1 1380	18
G1024	10	6	STR			1 100	5
G1025	10	2	C			670	1
G2502	25	4	A	1 1430	350	12 130	190

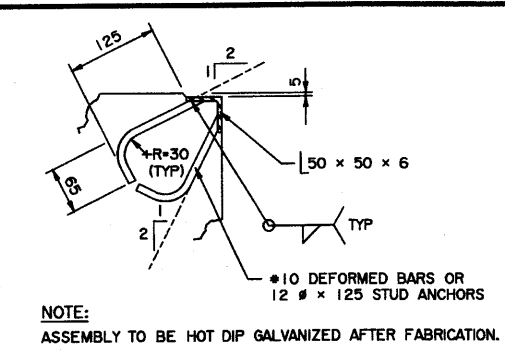
TOTAL kg : 524



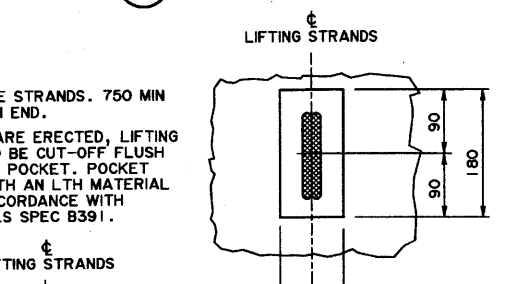
GENERAL NOTES

- 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/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 = 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-1675-01
- ERECTION**
- ANY FREE SPACE BETWEEN CONNECTORS SHALL BE FILLED WITH DROP-IN WASHERS.
- CALCULATED MASS OF ONE GIRDER IS 10.94 t.

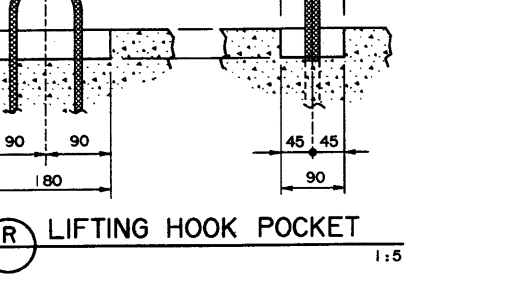
• WORK THESE DRAWINGS TOGETHER : S-1674-01 AND S-1675-01



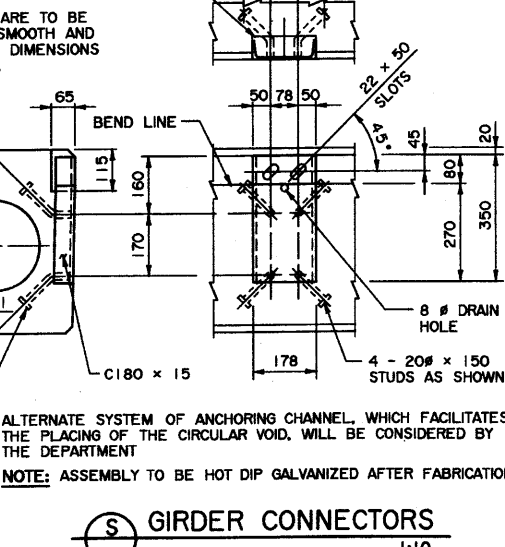
P BUFFER ANGLE
1:5



R LIFTING HOOK POCKET
1:5

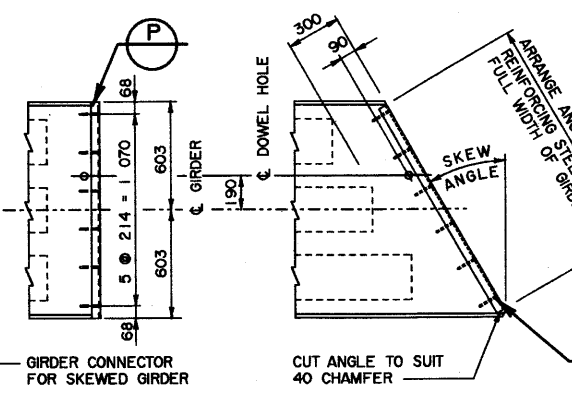


S GIRDER CONNECTORS
1:10

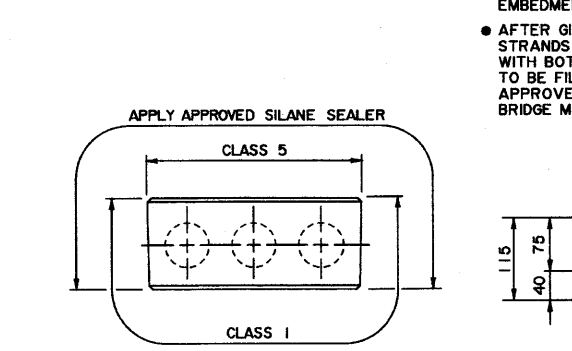


GIRDER FINISHES
(BY FABRICATOR) 1:20

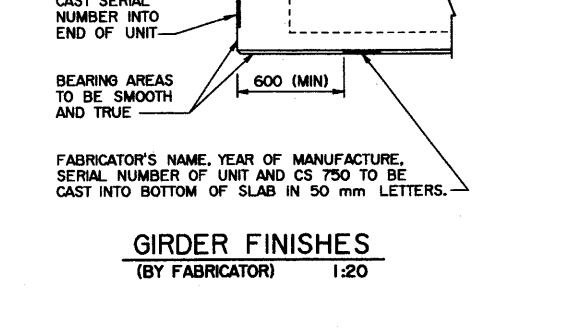
NOTE:
FOR SKEWED END REINFORCING BAR DETAILS SEE DWG S-1675-01



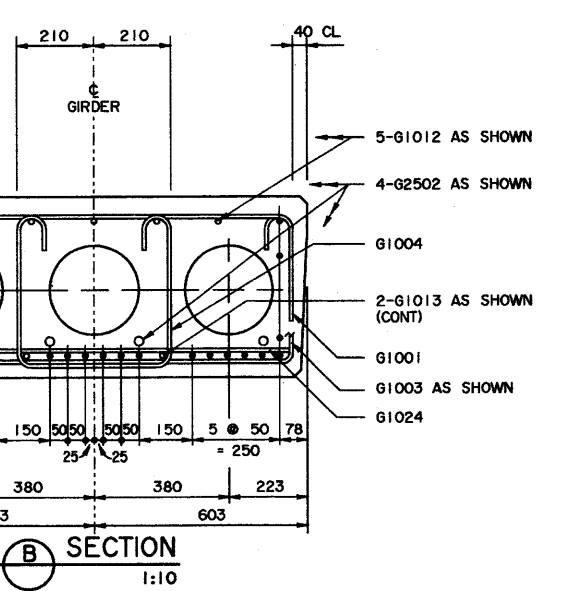
PLAN VIEW
1:20



REINFORCEMENT PLAN
1:20

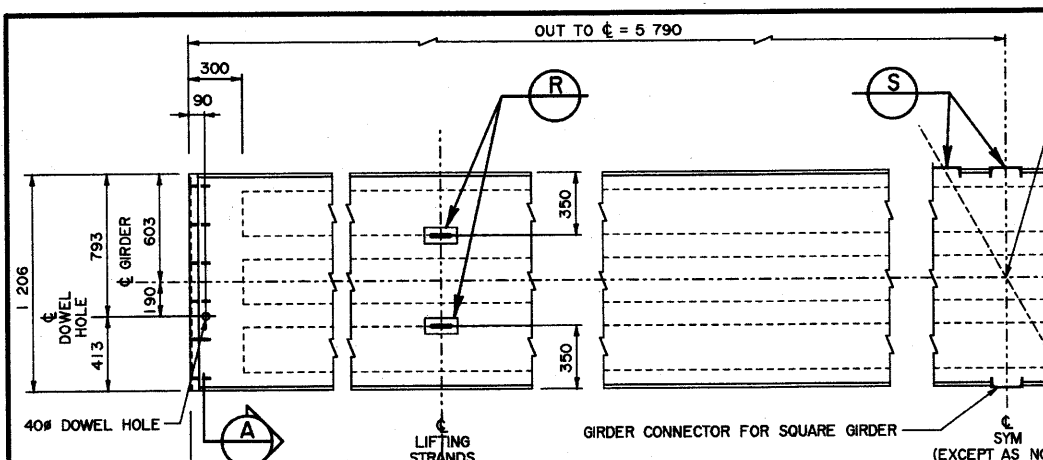


ELEVATION
1:20

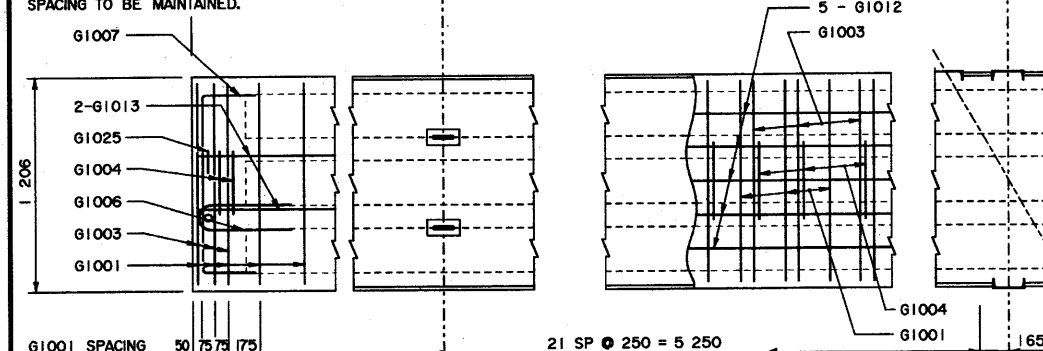


A SECTION 1:10
B SECTION 1:10

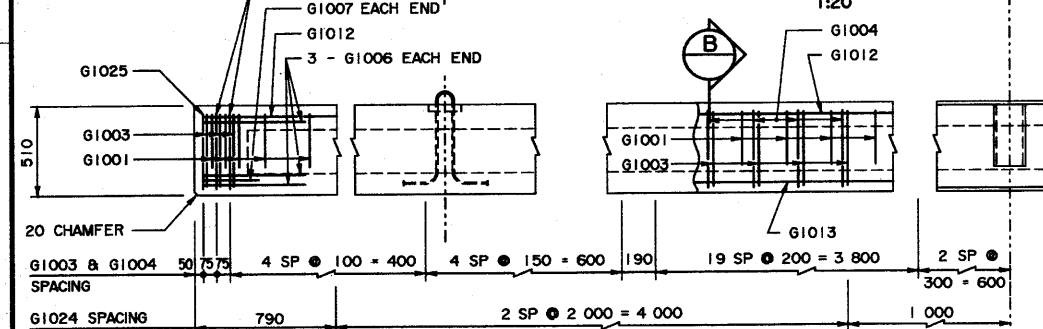
NOTE:
• 24 - 13 φ, 7 WIRE STRANDS REQUIRED PER GIRDER.
• STRANDS MARKED ⊙ ARE TO BE DEBONDED FOR 1500 mm FROM THE GIRDER END.



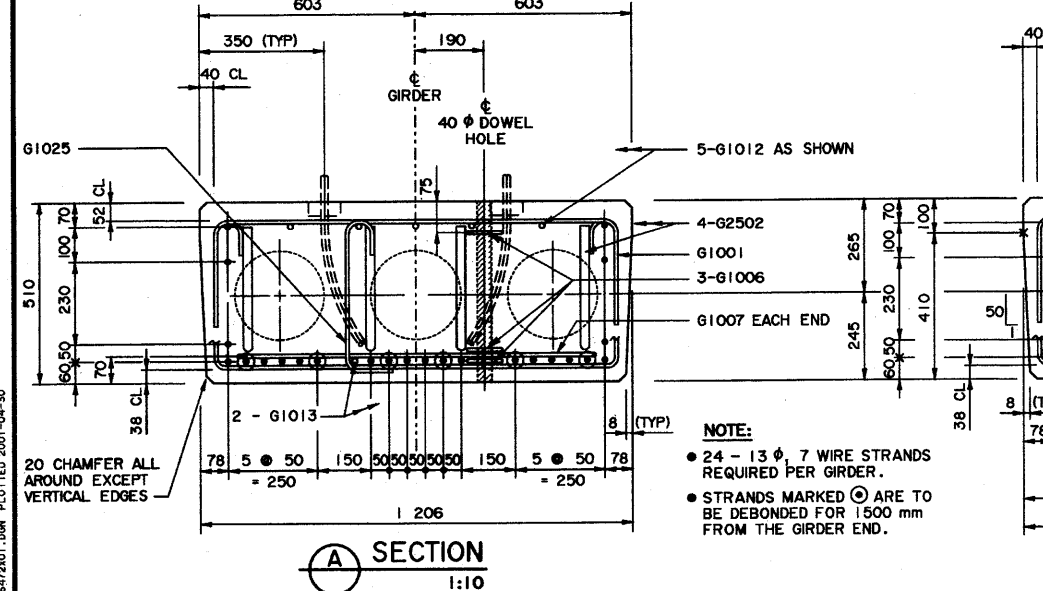
PLAN VIEW
1:20



REINFORCEMENT PLAN
1:20



ELEVATION
1:20



A SECTION 1:10

S1672401.DWG PLOTTED 2001-04-30

RECOMMENDED DIRECTOR BRIDGE ENGINEERING		Alberta TRANSPORTATION	
APPROVED EXECUTIVE DIRECTOR TECHNICAL STANDARDS BRANCH		PRESTRESSED CONCRETE 11.58 m TYPE SC-510 INTERIOR GIRDER	
DESIGNER	CHECKER	DATE	DRAWING
Ry	CTC	July 16/01	S-1674-01
REV	DATE	SHEET	1 of 2