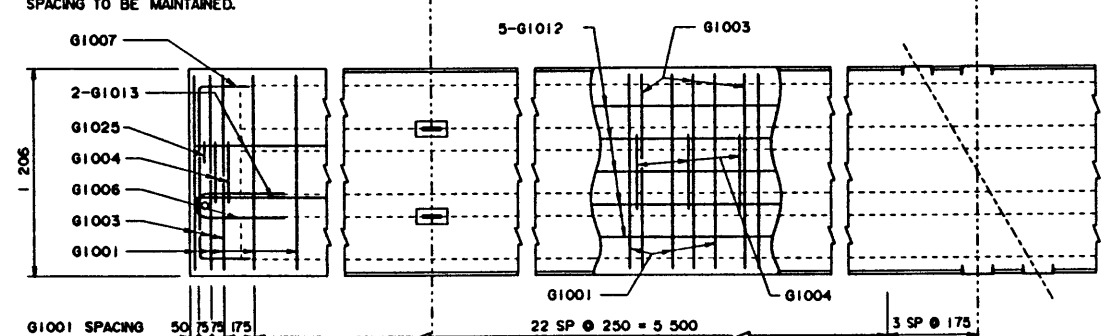
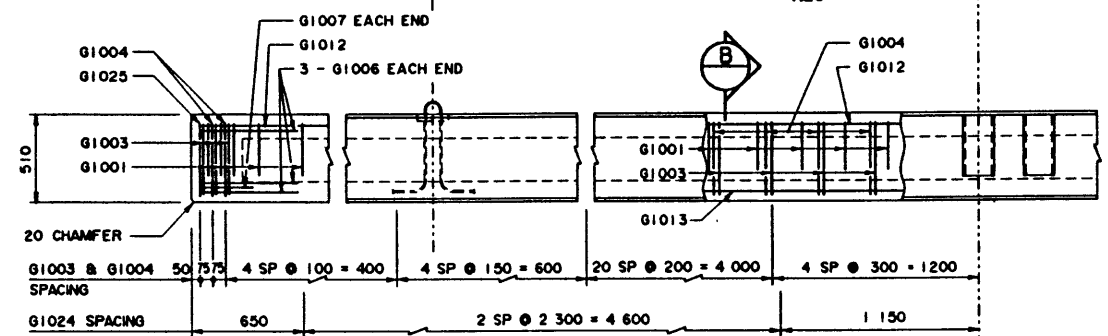


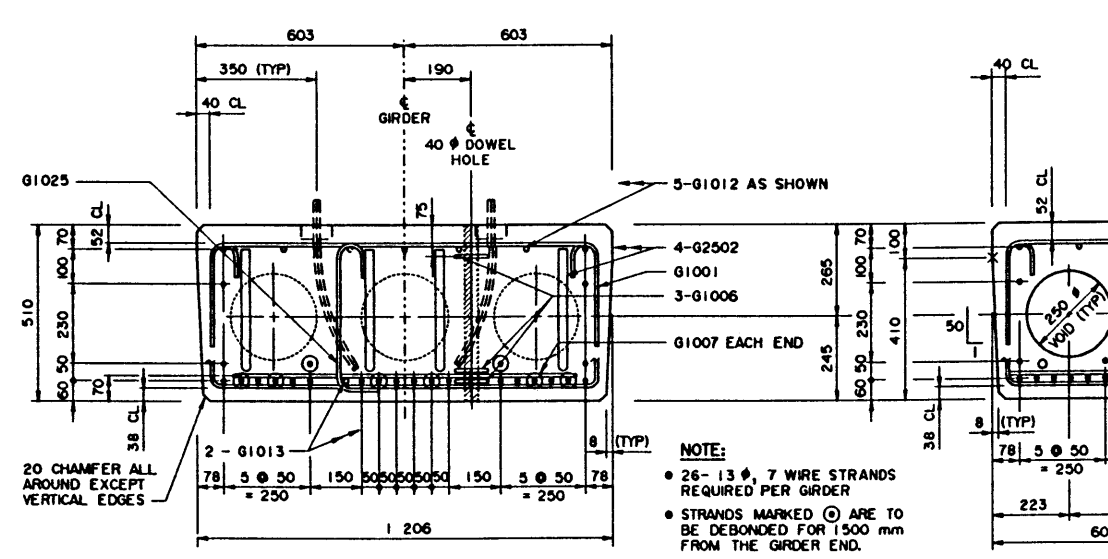
PLAN VIEW
1:20



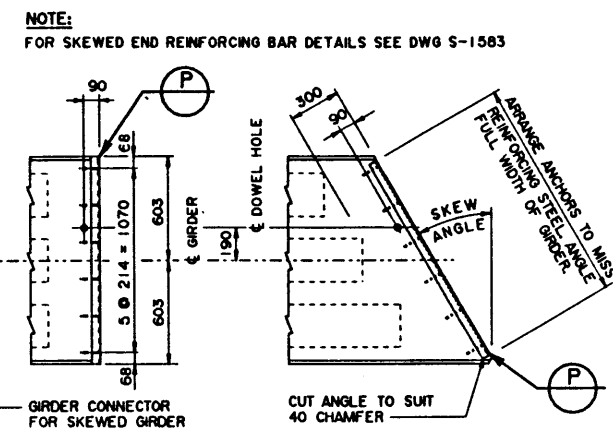
REINFORCEMENT PLAN
1:20



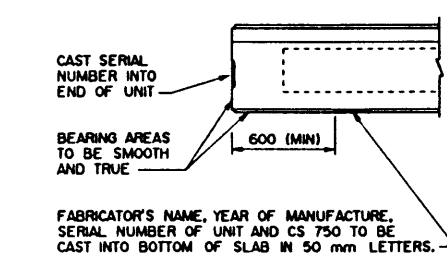
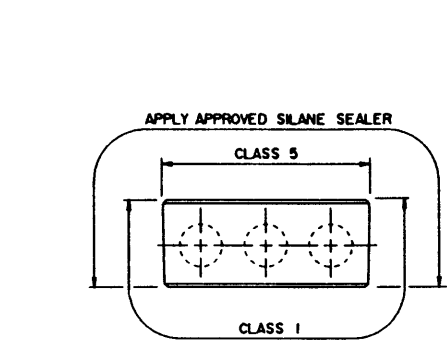
ELEVATION
1:20



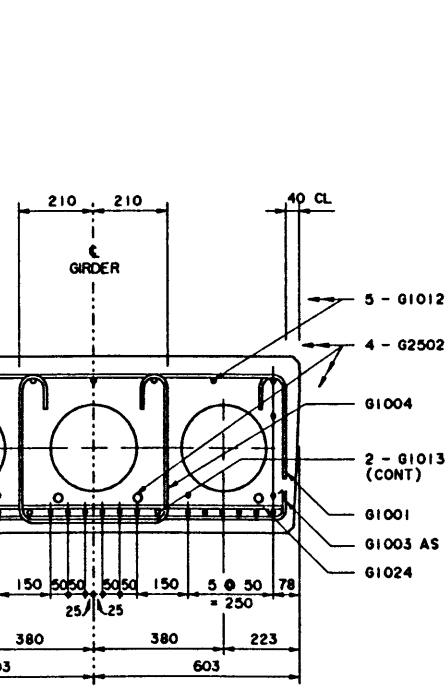
SECTION A
1:10



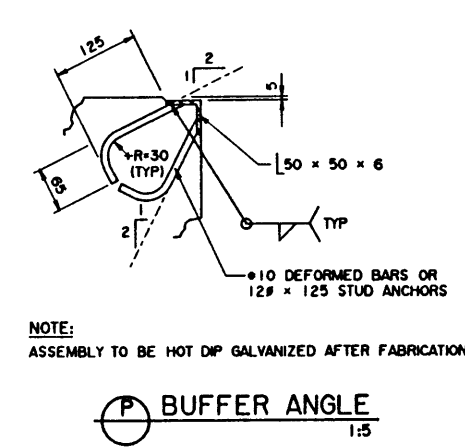
SECTION B
1:10



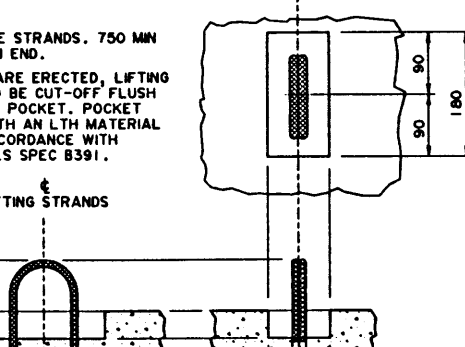
GIRDER FINISHES
(BY FABRICATOR) 1:20



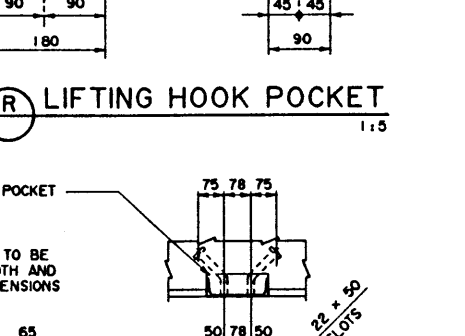
SECTION C
1:10



BUFFER ANGLE
1:5

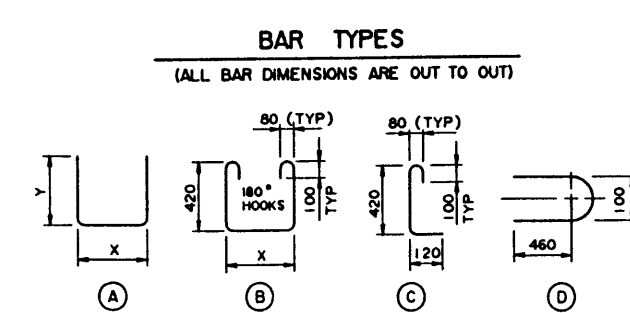


LIFTING HOOK POCKET
1:5



GIRDER CONNECTORS
1:10

BAR LIST: FOR SQUARE GIRDER							
MARK	SIZE	NO	TYPE	X	Y	LENGTH	MASS
G1001	10	57	A	1 125	300	1 725	77
G1003	10	69	B	1 125		2 220	120
G1004	10	67	B	420		1 520	80
G1006	10	6	D			1 080	5
G1007	10	2	A	1 000	300	1 600	3
G1012	10	5	STR			12 700	50
G1013	10	2	STR			12 600	20
G1024	10	6	STR			1 100	5
G1025	10	2	C			670	1
G2502	25	4	A	12 650	350	13 350	210
TOTAL kg :							571



BAR TYPES
(ALL BAR DIMENSIONS ARE OUT TO OUT)

- GENERAL NOTES**
- ALL DRAWING REFERENCES ARE TO CURRENT DRAWINGS.
 - CAN/CSA-S6-88 SPECIFICATIONS EXCEPT AS MODIFIED BELOW:
 - ALLOWABLE TENSION AT MIDSPAN IS 67% OF MODULUS OF RUPTURE WITH 50 mm WEARING SURFACE (80% WITH 90 mm WEARING SURFACE).
 - 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 - 45 MPa
 - RELEASE STRENGTH - 28 MPa
 - PRESTRESSING STEEL SHALL BE 13 #, 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 = 103 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-1583.

- ERECTION**
- ANY FREE SPACE BETWEEN CONNECTORS SHALL BE FILLED WITH DROP-IN WASHERS.
 - CALCULATED MASS OF ONE GIRDER IS 12.10 t.

REV	DATE	REVISIONS	BY
95-07-10		SPECIFICATION NOTE	
DESIGNED	LEA	DRAWN	VMV
DATE	94-03-15	CHECKED	SBD
DATE	94-05-16	DATE	

ORIGINAL DRAWING APPROVED BY
J. RAMOTAR
EXECUTIVE DIRECTOR
BRIDGE ENGINEERING
MAY 24, 1994

Alberta TRANSPORTATION AND UTILITIES
BRIDGE ENGINEERING BRANCH
PRESTRESSED CONCRETE
12.80 m TYPE SC-510
INTERIOR GIRDER

FILE: BRIDGE 1151818-111; UPDATE: JUL 07, 1995
THE: 1000 W