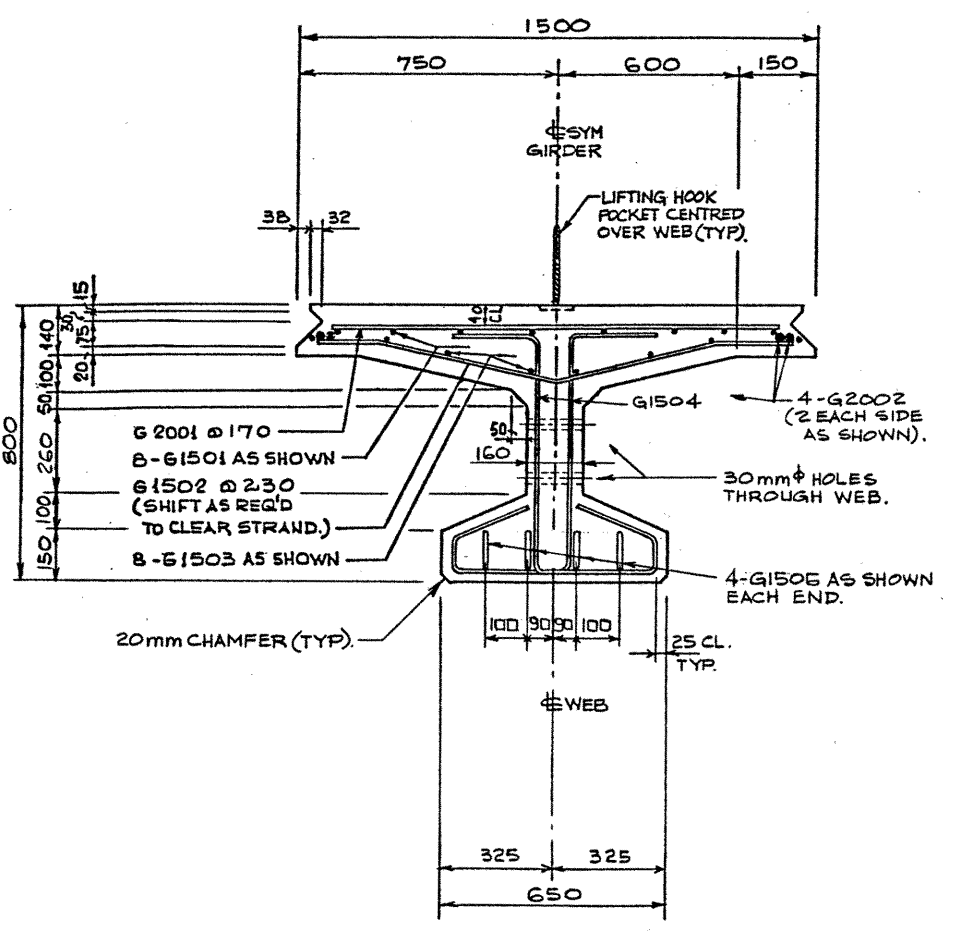
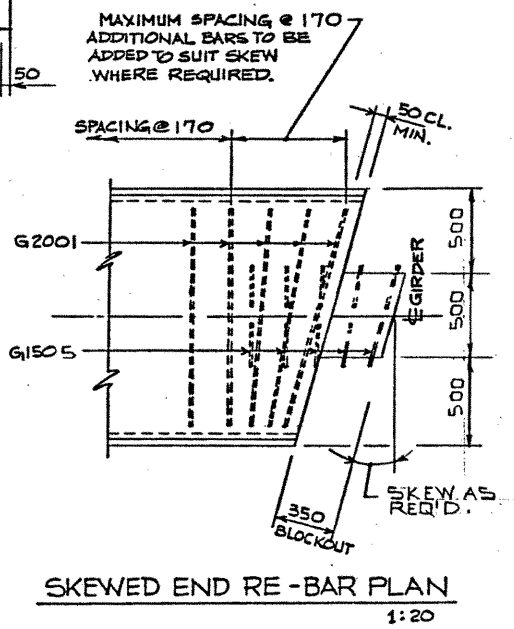
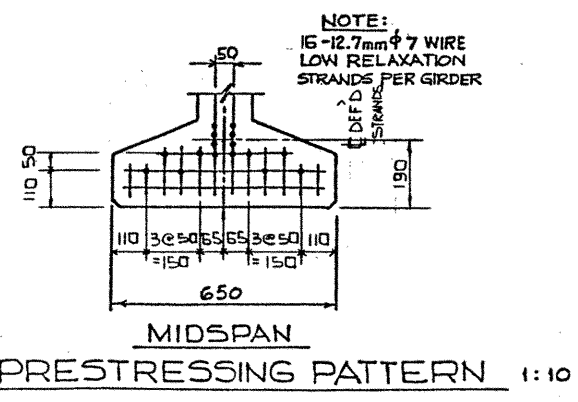
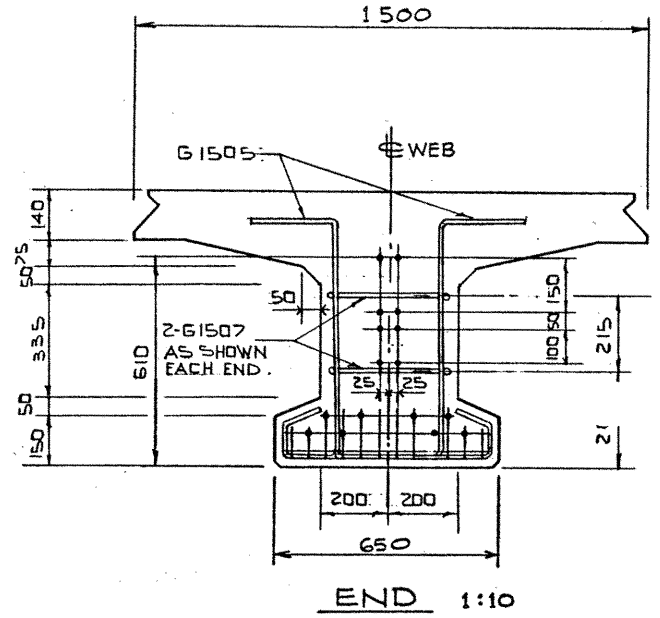


BAR LIST: ONE SQUARE GIRDER							
MARK	SIZE	NO.	TYPE	X	Y	LENGTH	MASS
G 1501	15	16	STR.			6750	170
G 1502	15	53	A			1280	166
G 1503	15	8	STR.			11900	149
G 1504	15	56	B			1655	146
G 1505	15	48	D			1615	122
G 1506	15	8	C	945	110	2065	26
G 1507	15	4	E			3330	21
G 2001	20	71	STR.			1260	211
G 2002	20	4	STR.			11900	112

TOTAL kg: 1123



TYPICAL SECTION 1:10



GENERAL NOTES

- DESIGN:
- C.S.A. CAN 3-S6-M78
  - NO TENSION IN TOP FLANGE OF GIRDER.
- LOADING:
- DEAD LOAD - GIRDER = 10.92 kN/M
  - WEARING SURFACE, SHEAR KEYS = 2.19 kN/M
  - LIVE LOAD - C.S.A. CAN 3-S6-M78 - MS500 PLUS IMPACT = 0.88 WHEEL LINES/GIRDER
- PRESTRESSING STEEL:
- PRESTRESSING STEEL SHALL BE 12.7 mm  $\phi$  - 7 WIRE LOW RELAXATION STRAND (F<sub>pu</sub> = 1860 MPa)
  - INITIAL TENSIONING LOAD: 125.6 kN/STRAND
  - DESIGN LOAD AFTER LOSSES: 105.1 kN/STRAND
- MATERIALS:
- STANDARD WEIGHT CONCRETE WITH NOT LESS THAN 5% AIR ENTRAINMENT (WHEN MEASURED IN PLASTIC STATE) SHALL BE USED THROUGHOUT.
  - 28 DAY STRENGTH: 35 MPa
  - RELEASE STRENGTH: 28 MPa
  - REINFORCING STEEL SHALL MEET THE REQUIREMENTS OF G30-12M GRADE 30C
- FABRICATION:
- GIRDERS SHALL CONFORM TO THE REQUIREMENTS OF THE CURRENT ALBERTA BRIDGE BRANCH "SPECIFICATION FOR THE MANUFACTURE OF PRESTRESSED AND PRECAST CONCRETE BRIDGE UNITS B-190M".
  - ALL EXPOSED CONCRETE CORNERS TO HAVE 20 mm CHAMFER OR FILLET UNLESS OTHERWISE NOTED.
  - GIRDER FORMS MUST BE ADJUSTABLE SUCH THAT THE TOP AND BOTTOM FLANGES OF THE GIRDER WILL FOLLOW THE SAME PARABOLIC CURVE WITH A MIDPOINT SAG AS SPECIFIED AT THE TIME OF CASTING.
  - EXPECTED NET GIRDER CAMBER DUE TO PRESTRESS IS 8 mm.
- ERECTION:
- LIFTING FORCE AT EACH HOOK MUST BE VERTICAL AT ALL TIMES.
  - GIRDER SURFACE MUST BE LEVEL AT ALL TIMES.
  - THEORETICAL MASS OF ONE GIRDER IS 3.4 TONNES.
  - CAMBER DIFFERENTIAL TO BE ELIMINATED BEFORE WELDING FLANGE CONNECTORS, USING JACKING BEAM & LIFTING HOOKS AT MID SPAN.

NOTE: GIRDERS SHALL BE GIVEN ADEQUATE TEMPORARY LATERAL SUPPORT IMMEDIATELY AFTER STRIPPING AND UNTIL BRIDGES ARE ERECTED.

~~SUPERSEDED~~

BY S-1550  
84-05-07

~~SUPERSEDED~~

DESIGNED BY J.A.S.  
DRAWN BY P.SZOTIS  
DATE 82-03-04  
M.P.-258

DESIGNED		DRAWN BY		DATE		CHECKED BY		DATE		STATION		LOCATION		MATERIAL		SCALE		FILE NO.		SHEET		DWG NO.	
T. MORRISON		KOHLMANN																					S-1502