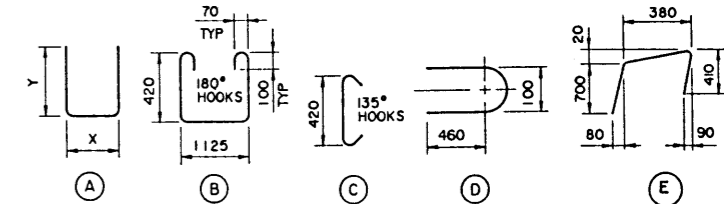


| BAR LIST: FOR SQUARE GIRDER | | | | | | | |
|-----------------------------|------|----|------|-------|-----|--------|------|
| MARK | SIZE | NO | TYPE | X | Y | LENGTH | MASS |
| C1001 | 10 | 3 | STR | | | 5 900 | 14 |
| C1008 | 10 | 2 | A | 310 | 600 | 1 510 | 2 |
| C1501 | 15 | 30 | E | | | 1 455 | 69 |
| G1001 | 10 | 28 | A | 1 125 | 300 | 1 725 | 38 |
| G1002 | 10 | 5 | STR | | | 5 900 | 23 |
| G1003 | 10 | 29 | B | | | 2 220 | 51 |
| G1004 | 10 | 56 | C | | | 620 | 27 |
| G1005 | 10 | 2 | STR | | | 5 800 | 9 |
| G1006 | 10 | 6 | D | | | 1 020 | 5 |
| G1007 | 10 | 2 | A | 1 000 | 300 | 1 600 | 3 |

TOTAL kg : 241

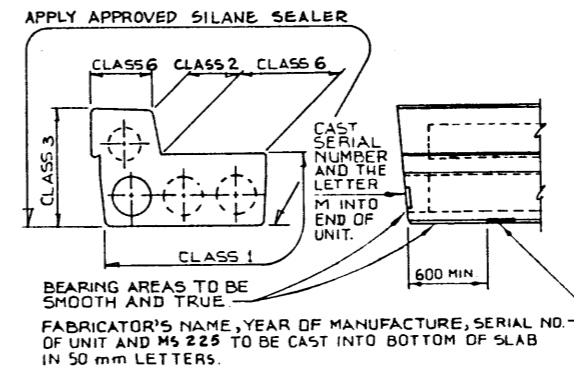
BAR TYPES

(ALL BAR DIMENSIONS ARE OUT TO OUT)



GENERAL NOTES

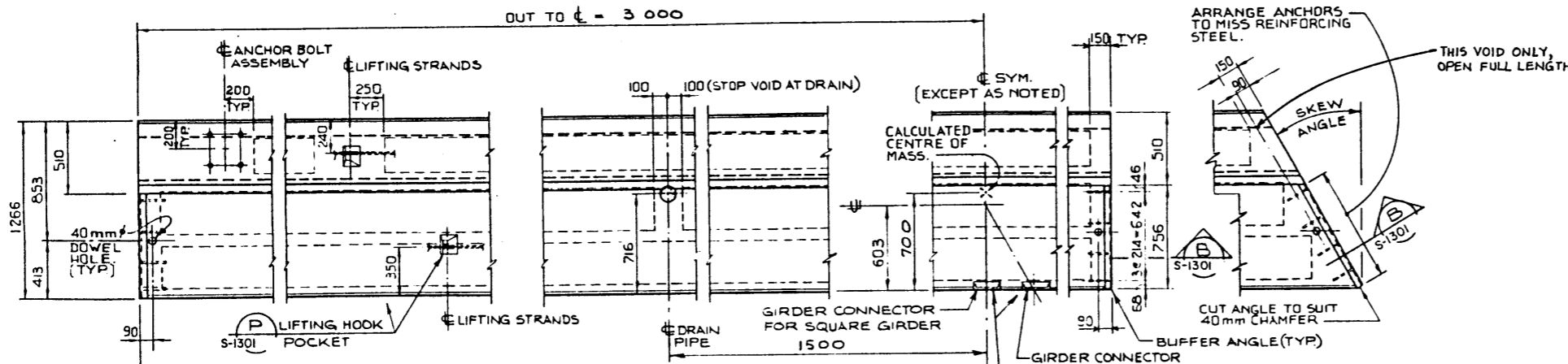
- ALL DRAWING REFERENCES ARE TO CURRENT DRAWINGS.
- DESIGN**
 - AASHTO 1973 SPECIFICATIONS PLUS INTERIMS TO 1976 EXCEPT AS MODIFIED BELOW:
 - ALLOWABLE TENSION AT MIDSPAN IS 80% OF MODULUS OF RUPTURE.
 - NO TENSION ALLOWED IN DECK SURFACE.
 - WEB REINFORCEMENT - ACCORDING TO ACI 318-7, BUT NOT LESS THAN AASHTO MINIMUM.
 - CAPACITY REDUCTION FACTORS ACCORDING TO CSA S6-1974.
- LOADING:**
 - LIVE LOAD - CSA CAN3 - S6-M78; MS225-77
 - DEAD LOAD - GIRDER = 1.02 t/m
 - WEARING SURFACE AND BRIDGERAIL = 0.11 t/m
- MATERIALS**
 - CONCRETE IN GIRDER SHALL BE MADE OF LIGHTWEIGHT COARSE AGGREGATE AND SAND FINES.
 - 28 DAY CONCRETE STRENGTH - 35 MPa
 - RELEASE STRENGTH - 28 MPa
 - UNIT WEIGHT OF SEMI-LIGHT WEIGHT CONCRETE 1920 kg/m³.
 - PRESTRESSING STEEL SHALL BE 12.7 mm # 7 WIRE LOW RELAXATION STRAND (f_s = 1860 MPa).
 - REINFORCING STEEL SHALL BE GRADE 400 (YIELD STRENGTH OF GRADE 300 USED IN DESIGN TO ALLOW TACK WELDING OF SHEAR REINFORCEMENT).



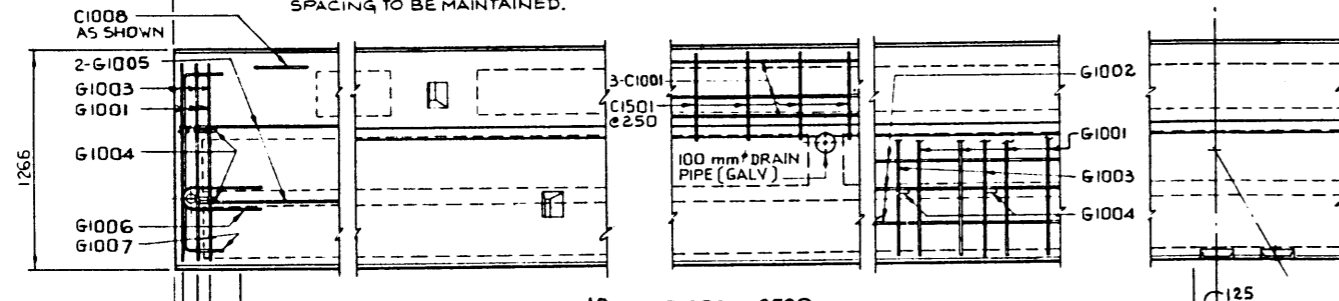
GIRDER FINISHES
(BY FABRICATOR) 1:25

FABRICATION

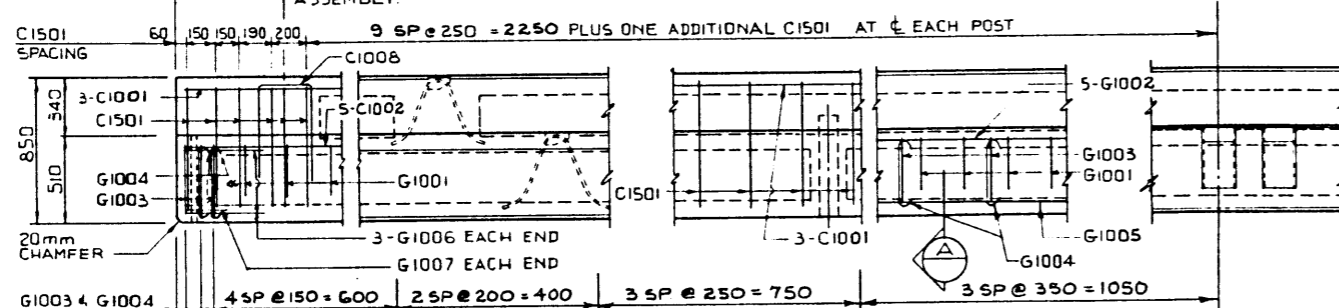
- GIRDERS SHALL CONFORM TO THE CURRENT REQUIREMENTS OF THE BRIDGE MATERIALS SPECIFICATION FOR THE MANUFACTURE OF PRESTRESSED CONCRETE BRIDGE UNITS (SPEC B190).
- FORCE IN PRESTRESSING STEEL:
 - INITIAL TENSIONING LOAD = 129 kN/STRAND
 - DESIGN LOAD AFTER LOSSES = 114 kN/STRAND
- CURB TO BE CAST MONOLITHICALLY WITH GIRDER.
- ANCHOR BOLT ASSEMBLIES SHALL BE CAST IN GIRDER AT SPACINGS SHOWN ON DRAWING S-1303-88.
- ALL GALVANIZING SHALL CONFORM TO ASTM SPEC A153.
- BEND OR SHIFT REINFORCING WHERE REQUIRED TO CLEAR GIRDER CONNECTORS AND LIFTING HOOK ASSEMBLIES. STIRRUP SPACING SHALL BE MAINTAINED.
- ERECTION**
 - ANY FREE SPACE BETWEEN CONNECTORS SHALL BE FILLED WITH WASHERS.
 - CALCULATED MASS OF ONE GIRDER IS 6.33 t.
- WORK THESE DRAWINGS TOGETHER: S-1301, S-1302 AND S-1303.



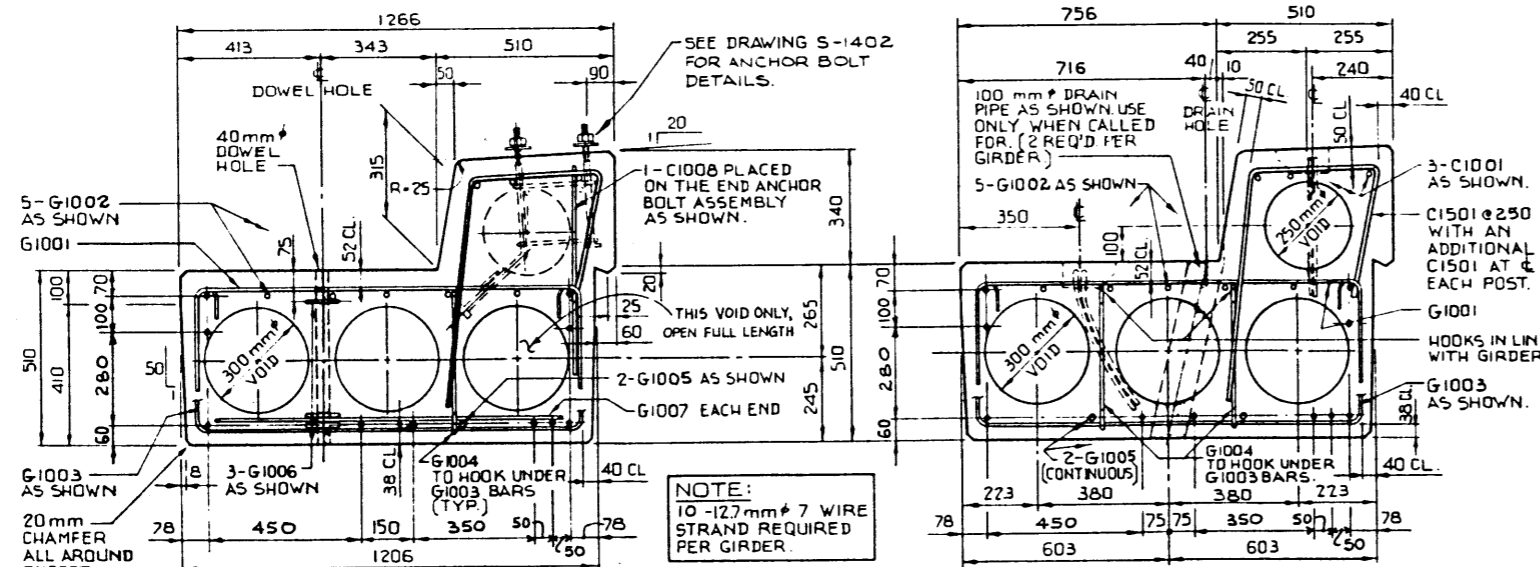
PLAN VIEW
1:20



REINFORCEMENT PLAN
1:20



ELEVATION
1:20



END SECTION
1:10

SECTION
1:10

| | | | | | | | |
|--|--------------|---------------------|---------|---|--------|----------|-----------|
| APPROVED | | | | Albarta TRANSPORTATION AND UTILITIES BRIDGE ENGINEERING BRANCH | | | |
| EXECUTIVE DIRECTOR BRIDGE ENGINEERING | | | | PRESTRESSED CONCRETE 6 m TYPE SM-510 CURB GIRDER | | | |
| REV | DATE | DESCRIPTION | BY | DATE | STREAM | LOCATION | HIGHWAY |
| | 88-06-21 | REDRAWN FROM S-1302 | D H O | JUNE 29, 1988 | | | |
| REVISIONS | | | | | | | |
| DESIGNED | DRAWN | DATE | CHECKED | DATE | STREAM | LOCATION | HIGHWAY |
| R W L | V G B W S | 88-06-21 | | | | | |
| | | | | | | SHEET | DRAWING |
| | | | | | | 2 of 3 | S-1302-88 |