

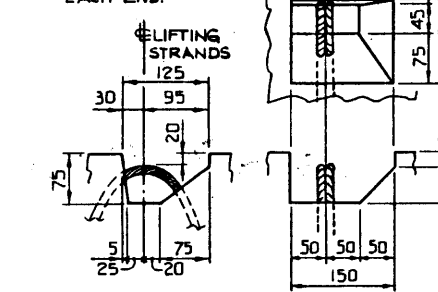
ARRANGE ANCHORS TO MISS REINFORCING STEEL ANGLE FULL WIDTH OF GIRDER.

*10 DEFORMED BARS OR 125mm STUD ANCHORS.

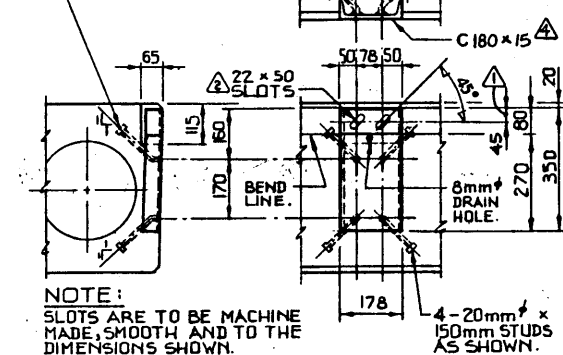
NOTE: ASSEMBLY TO BE HOT DIP GALV AFTER FABRICATION.

B BUFFER ANGLE 1:5

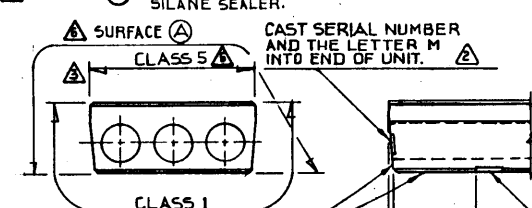
2 - 12.7mm #7 WIRE STRANDS. 750mm MIN. EMBEDMENT EACH END.



ALTERNATE SYSTEM OF ANCHORING CHANNEL WHICH FACILITATES THE PLACING OF THE CIRCULAR VOID, WILL BE CONSIDERED BY THE DEPT.



APPROVED PROTECTIVE SILANE SEALER.



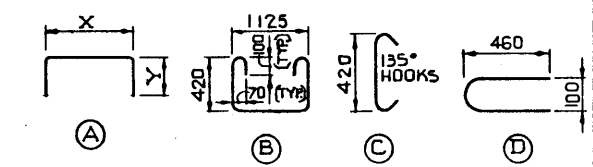
BEARING AREAS TO BE SMOOTH AND TRUE.
 FABRICATOR'S NAME, YEAR OF MANUFACTURE, SERIAL NO. OF UNIT AND MS-23 TO BE CAST INTO BOTTOM OF SLAB IN 50mm LETTERS.

BAR LIST: FOR SQUARE GIRDER

MARK	SIZE	NO.	TYPE	X	Y	LENGTH	MASS
G1001	10	28	A	1125	300	1725	38
G1002	10	5	STR.			5900	23
G1003	10	29	B			2220	51
G1004	10	56	C			620	27
G1005	10	2	STR.			5800	9
G1006	10	6	D			1020	5
G1007	10	2	A	1000	300	1600	3

TOTAL kg: 151

BAR TYPES: N.T.S.
 (ALL BAR DIMENSIONS ARE OUT TO OUT)



GENERAL NOTES:

DESIGN:
 *A.A.S.H.T.O. 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 A.C.I. 318-71, BUT NOT LESS THAN A.A.S.H.T.O. MINIMUM.
 *CAPACITY REDUCTION FACTORS ACCORDING TO C.S.A. 56-1974.

LOADING:
 LIVE LOAD - BRIDGE BRANCH MS-23
 ONE WHEEL LINE PER GIRDER.
 DEAD LOAD - GIRDER - 0.780 t/m
 WEARING SURFACE - 0.150 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 12.7mm #7 WIRE STRESS-RELIEVED STRAND (f_s = 1860 MPa), 12.7mm #7 WIRE LOW RELAX. STRAND (f_s = 1860 MPa) MAY BE SUBSTITUTED FOR STRESS-RELIEVED STRAND ON A ONE FOR ONE BASIS AT THE SAME INITIAL STRESS. THE ENGINEER SHALL BE NOTIFIED IF SUBSTITUTION IS MADE.

FABRICATION:
 *GIRDERS SHALL CONFORM TO THE REQUIREMENTS OF THE ALBERTA BRIDGE BRANCH SPECIFICATION FOR THE MANUFACTURE OF PRESTRESSED CONCRETE BRIDGE UNITS.
 *FORCE IN PRESTRESSING STEEL:
 INITIAL TENSIONING LOAD = 128.6 kN/STRAND.
 DESIGN LOAD AFTER LOSSES = 103.6 kN/STRAND.
 *ALL GALVANIZING SHALL CONFORM TO A.S.T.M. SPEC. A153.
 *BEND OR SHIFT REINFORCING WHERE REQUIRED TO CLEAR GIRDER CONNECTORS AND LIFTING HOOK ASSEMBLIES. STIRRUP SPACING IS TO BE MAINTAINED

ERECTION:
 *ANY FREE SPACE BETWEEN CONCRETE SHALL BE FILLED WITH WASHERS.
 *CALCULATED MASS OF GIRDER IS 1.77

DIMENSIONS ARE GIVEN IN mm

WORK THIS DWG. IN CONJUNCTION WITH DWG. NO. S-1302 & S-1303

NO.	DATE	DESCRIPTION	BY
1		85-10-23 GIRDER FINISHES BY FABRICATOR	J.C.Y.
2		84-01-31 CONNECTOR CHANNEL DESIGNATION	T.P.H.
3		79-03-20 4-G1001 ADDED GIRDER FINISHES	R.G.R.
4		78-07-20 CONNECTOR SLOTS & GIRDER MARKINGS	R.G.R.
5		78-05-11 DIMENSION ADDED	R.W.L.

DESIGNED: R.W.L. DRAWN BY: V.G.B. DATE: 78 02 15 CHECKED BY: DATE: STREAM: LOCATION: HWY. NO.: SCALE: FILE NO.: SHEET: DWG. NO.: S-1301

APPROVED

Alberta TRANSPORTATION BRIDGE BRANCH **METRIC**

PRESTRESSED CONCRETE
 6 m TYPE SM-510
 INTERIOR GIRDER

DATE: MAR 23/78

SUPERSEDED

SUPERSEDED

BLIND VOID - 1:10