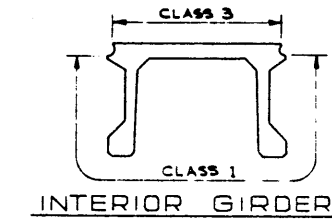
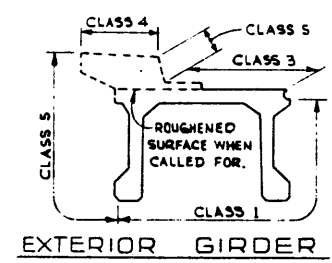


BAR LIST: FOR UNSKEWED GIRDER							
MARK	SIZE	NO	TYPE	X	Y	LENGTH	WEIGHT
S 301	3	400	C			1'-6"	226
S 401	4	28	STR			31'-11"	597
S 402	4	150	B			6'-5"	643
S 501	5	302	STR			4'-9"	1,496
T 401	4	406	A			6'-3"	1,695
T 402	4	14	E			3'-0"	28
T 601	6	4	D	4'-6"		6'-6"	39
D 601	6	8	D	4'-2"		6'-2"	74
D 602	6	4	D	5'-0"		7'-0"	42

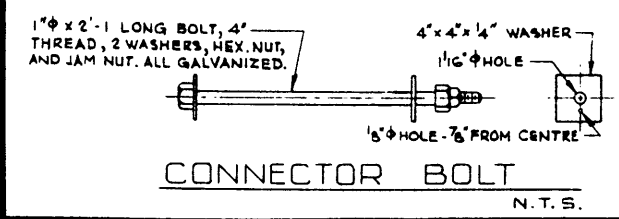
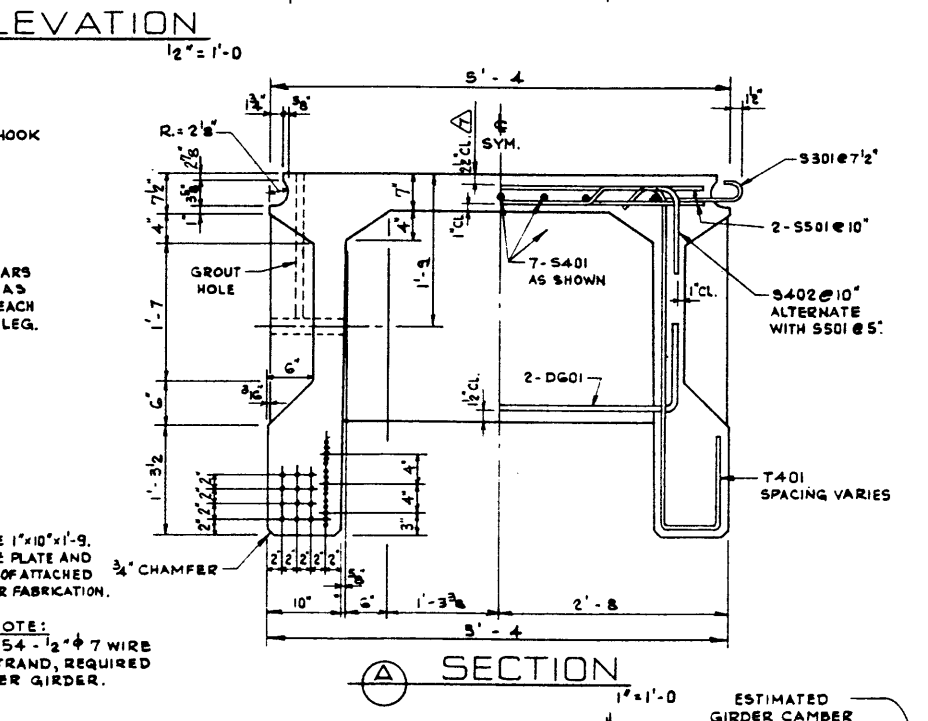
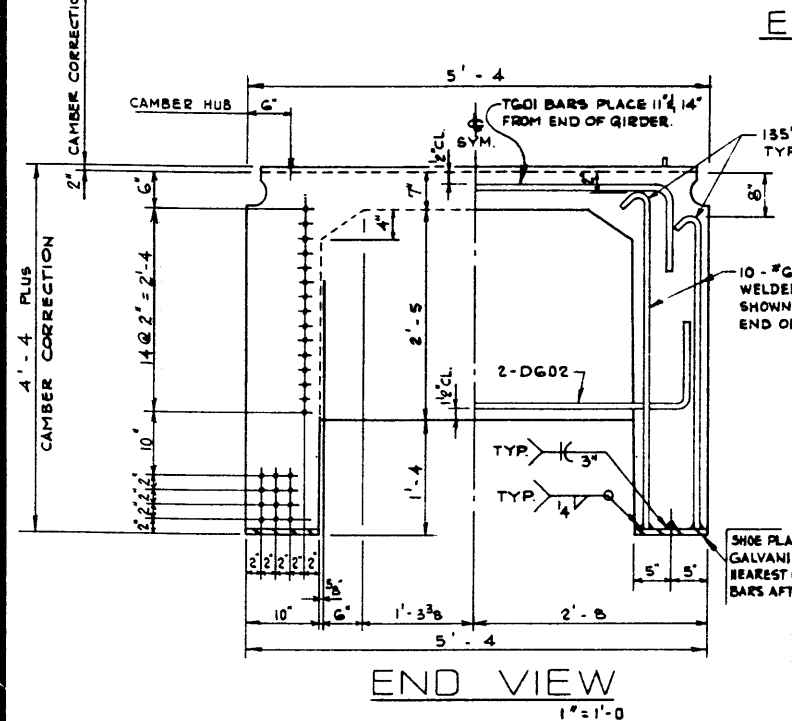
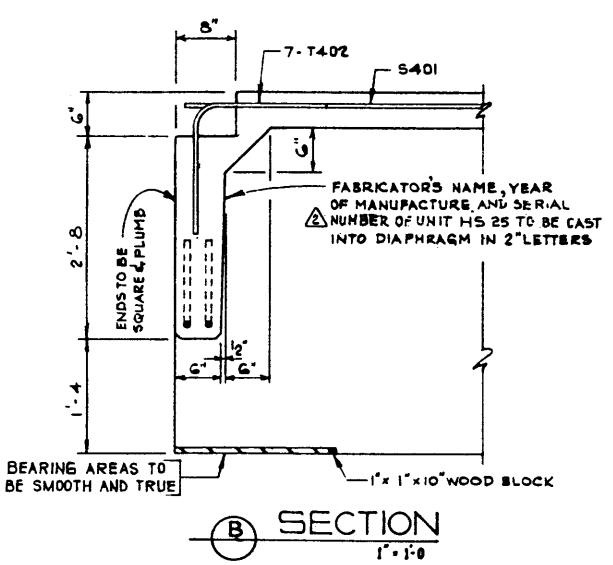
TOTAL LBS: 4,832
 TOTAL LBS: 4,823
 TOTAL LBS: 4,840

GENERAL NOTES:

- DESIGN:**
- A. A. S. H. O. 1969 SPECIFICATION EXCEPT ALLOWABLE FINAL CONCRETE STRESS = 350 P.S.I. IN TENSION.
 - LOADING: 0.90 OF ONE WHEEL LINE OF AN HS 25-44 TRUCK PLUS FULL DEAD LOAD PLUS 2 1/2" WEARING SURFACE.
- MATERIALS:**
- CONCRETE SHALL BE MANUFACTURED USING LIGHTWEIGHT COARSE AGGREGATE AND SAND FINES. LIGHTWEIGHT AGGREGATE SHALL CONFORM TO THE REQUIREMENTS OF ASTM SPECIFICATION C 330 WITH MAXIMUM AGGREGATE SIZE OF 3/4". MINIMUM COMPRESSIVE STRENGTH SHALL BE 5,500 P.S.I. AT 28 DAYS. UNIT WEIGHT OF THE CONCRETE SHALL BE 120 LBS. PER CUBIC FOOT PLUS OR MINUS 5% IN THE PLASTIC STATE. ENTRAINED AIR SHALL BE NOT LESS THAN 5%.
 - PRESTRESSING STEEL SHALL BE 1/2" DIAMETER - 7 WIRE 270 K STRAND.
- FABRICATION:**
- GIRDERS SHALL CONFORM TO THE REQUIREMENTS OF THE ALBERTA BRIDGE BRANCH SPECIFICATION 1190-64 FOR THE MANUFACTURE OF PRESTRESSED CONCRETE BRIDGE UNITS.
 - REINFORCEMENT: DIAMETERS OF ALL BENDS SHALL CONFORM TO THE RECOMMENDED MINIMUMS AND ALL HOOKS, UNLESS OTHERWISE NOTED, SHALL CONFORM TO THE RECOMMENDED SIZES DETAILED IN THE A.C.I. MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES.
 - PRESTRESSING STEEL: INITIAL TENSIONING LOAD = 28.91 K/STRAND DESIGN LOAD = 20.52 K/STRAND
 - CONCRETE MUST ATTAIN 4,100 P.S.I. COMPRESSIVE STRENGTH BEFORE THE PRESTRESSING FORCE IS TRANSFERRED.
 - GALVANIZING SHALL BE IN ACCORDANCE WITH ASTM SPECIFICATION A 153.
 - SHEAR KEYS AND BLOCKOUTS SHALL BE SANDBLAST ROUGHENED BY THE GIRDER FABRICATOR TO THE APPROVAL OF THE ENGINEER.
 - RIBS AND CONNECTOR BOLT HOLES SHALL BE OMITTED ON OUTSIDE LEGS OF EXTERIOR GIRDERS.
 - EXTERIOR GIRDER DIAPHRAGMS SHALL BE SPACED AT 13'-6" MAXIMUM.
 - CONNECTOR BOLTS, WASHERS, HEX NUTS, JAM NUTS AND RODOFOAM GASKETS SHALL BE SUPPLIED WITH THE GIRDERS.
- SECTION:**
- LIFTING FORCE AT EACH HOOK MUST BE VERTICAL AT ALL TIMES. GIRDER SURFACE MUST BE LEVEL AT ALL TIMES.

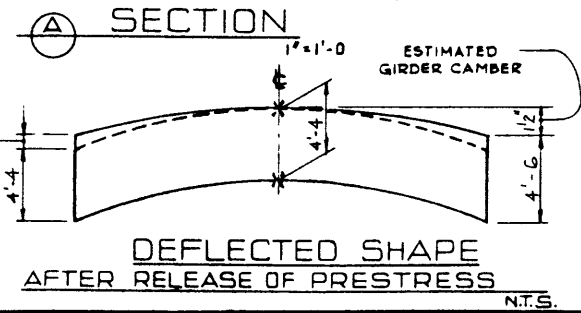


GIRDER FINISHES
N.T.S.



NOTE: 54 - 1/2" x 7 WIRE STRAND, REQUIRED PER GIRDER.

CAMBER CORRECTION VARY FROM 0" AT CENTRE TO 2" AT ENDS. CAMBER CORRECTION IS SUCH AS TO PRODUCE A GIRDER CAMBER EQUAL TO THE SPAN/1000 AND MAY BE VARIED TO SUIT GRADELINE.



NO.	DATE	DESCRIPTION	BY
1	JUL 75	DIMENSION CORRECTED	J.G.Y.
2	JUL 26 75	RELEASE STRENGTH & BAR DIM. CHANGE	R.W.L.
3	NOV 21 75	LIFT HOOK CHANGED FROM 4 STRANDS	J.R.C.
4	NOV 22 75	TRANSFER STRENGTH TO 4700 FROM 5000	J.R.C.
5	OCT 8 75	BAR DIMENSION	R.W.L.
6	10-9-75	HS25 ADDED TO DESIGNATION	R.W.L.
7	7-9-75	NAME CHANGED FROM FC	R.L.F.

APPROVED

PROVINCE OF ALBERTA
DEPARTMENT OF HIGHWAYS AND TRANSPORT
BRIDGE BRANCH

PRESTRESSED CONCRETE
125'-0" TYPE VF-52 GIRDER
HS 25 TRUCK

DESIGNED: J.R.C. DRAWN BY: V.G.B. DATE: 2-9-77

FILE NO. SHEET 5-1090