

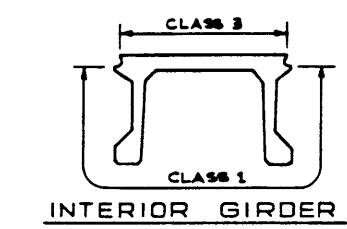
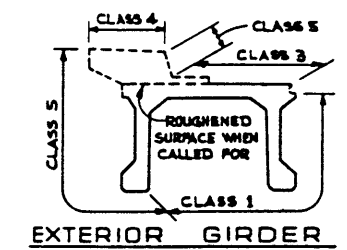
BAR LIST: FOR UNSKEWED GIRDER

MARK	SIZE	NO.	TYPE	X	Y	LENGTH	WEIGHT
S 301	3	172	C			1'-6	97
S 401	4	14	STR.			27'-10	260
S 402	4	64	B			6'-4	271
S 501	5	130	STR.			4'-9	644
T 401	4	86	A			4'-8	268
T 402	4	14	E			3'-0	28
T 601	6	4	D	4'-6		6'-6	39
D 601	6	4	D	4'-2		6'-2	37
D 602	6	4	D	5'-0		7'-0	42

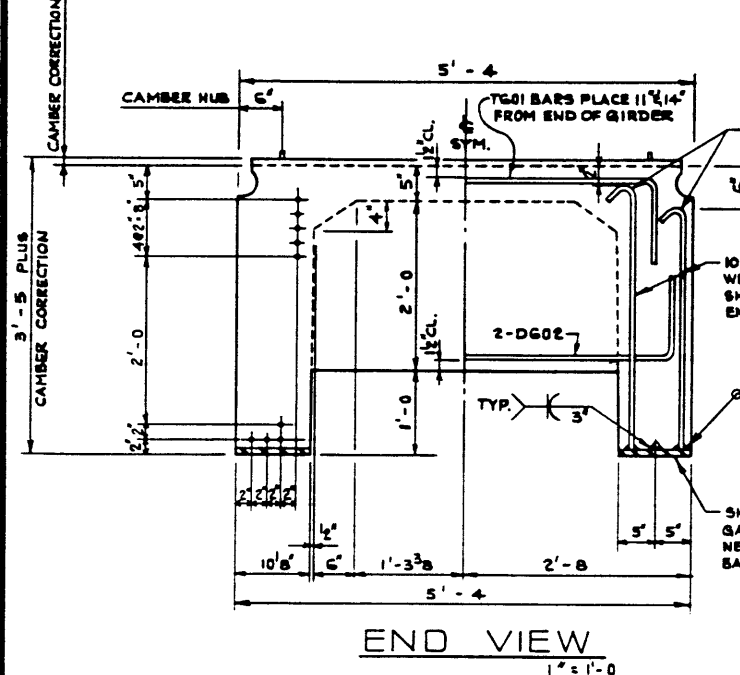
TOTAL LBS: 1,686

GENERAL NOTES:

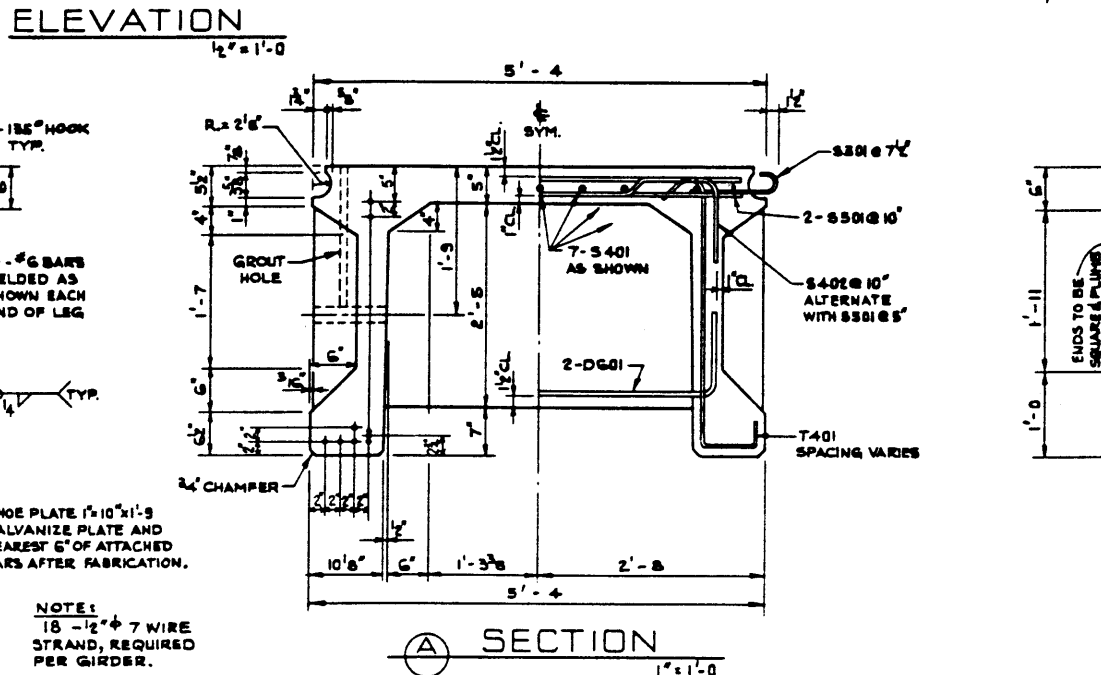
- DESIGN:**
- A.A.S.H.O. 1969 SPECIFICATION EXCEPT ALLOWABLE FINAL CONCRETE STRESS = 420 P.S.I. IN TENSION.
 - LOADING: 8.10 OF ONE WHEEL LINE OF AN HS20-44 TRUCK PLUS FULL DEAD LOAD PLUS 2" WEARING SURFACE.
- MATERIALS:**
- CONCRETE SHALL BE OF STANDARD WEIGHT AGGREGATE WITH A MAXIMUM SIZE OF 3/4". MINIMUM COMPRESSIVE STRENGTH SHALL BE 5000 P.S.I. AT 28 DAYS. 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 B 190-44 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 = 26.91 K/STRAND DESIGN LOAD = 24.69 K/STRAND
 - CONCRETE MUST ATTAIN 4000 P.S.I. COMPRESSIVE STRENGTH BEFORE THE PRESTRESSING FORCE IS TRANSFERRED.
 - GALVANIZING SHALL BE IN ACCORDANCE WITH ASTM SPECIFICATION A 158.
 - 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 ROODOFAM GASKETS SHALL BE SUPPLIED WITH THE GIRDERS.
- ERECTION:**
- LIFTING FORCE AT EACH HOOK MUST BE VERTICAL AT ALL TIMES. GIRDER SURFACE MUST BE LEVEL AT ALL TIMES.



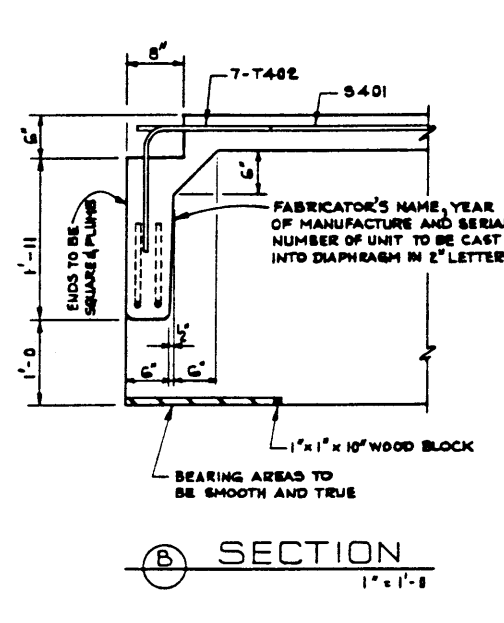
GIRDER FINISHES
N.T.S.



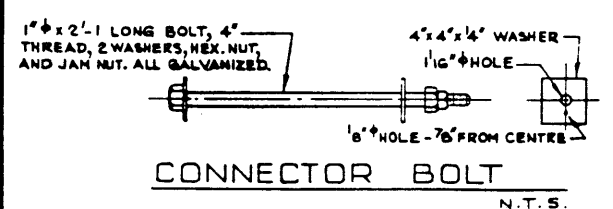
END VIEW
1/2" = 1'-0"



SECTION A
1" = 1'-0"



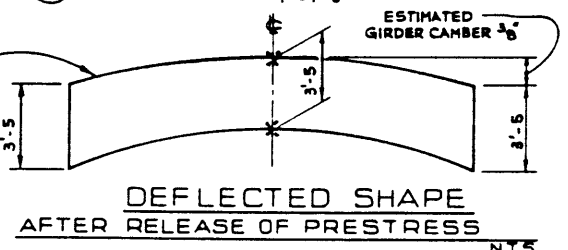
SECTION B
1" = 1'-0"



CONNECTOR BOLT
N.T.S.

NOTES:
18 - 1/2" x 7 WIRE STRAND, REQUIRED PER GIRDER.

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



DEFLECTED SHAPE AFTER RELEASE OF PRESTRESS
N.T.S.

DESIGNED E. B. J.		DRAWN BY V. G. B.		DATE DEC. /72		CHECKED BY [Signature]		DATE APR. 73.		STREAM		LOCATION		HWY. NO.		SCALE SHOWN		FILE NO.		SHEET of		Dwg. NO. S-878-72	
<p>APPROVED</p> <p>[Signature]</p> <p>DATE: Dec. 2, 1972</p>												<p>PROVINCE OF ALBERTA DEPARTMENT OF HIGHWAYS AND TRANSPORT BRIDGE BRANCH</p> <p>PRESTRESSED CONCRETE 55'-0" TYPE FC-41" GIRDER</p>											