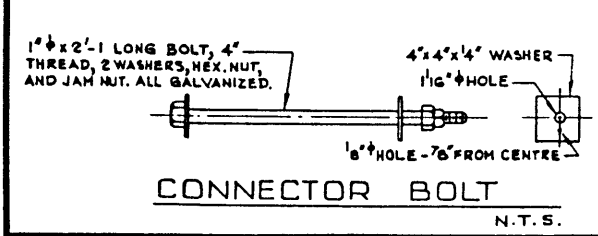
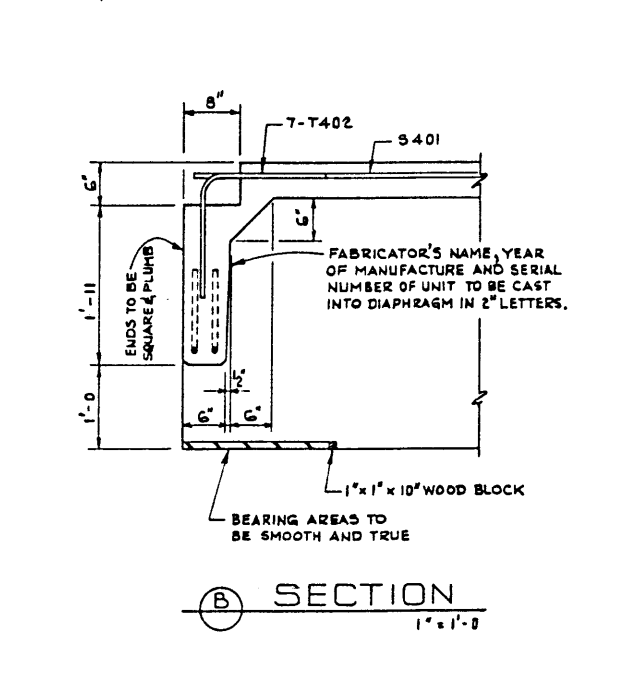
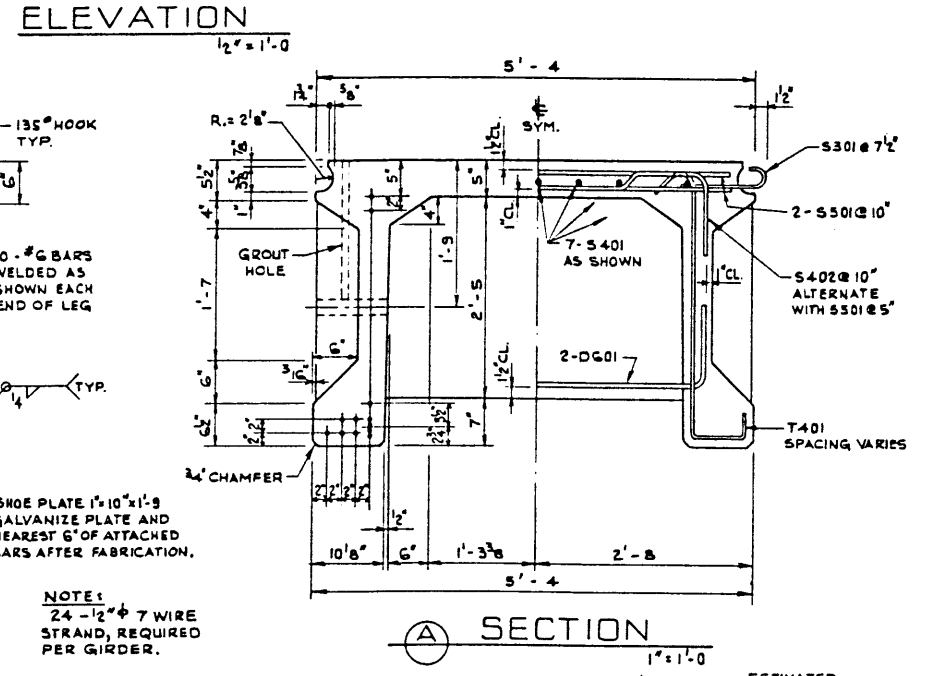
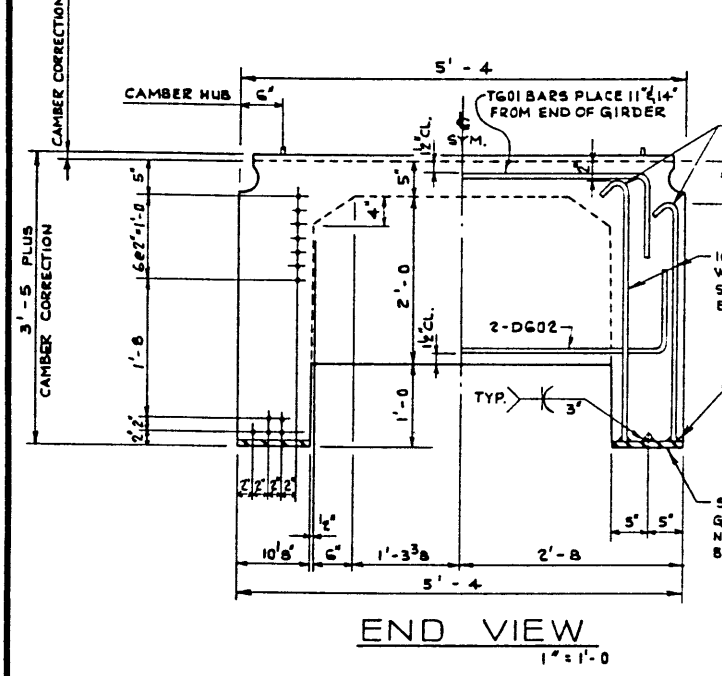
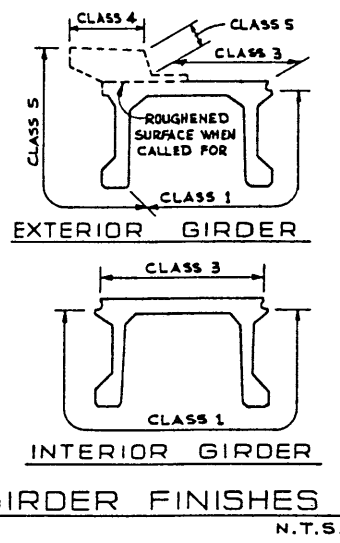


BAR LIST: FOR UNSKEWED GIRDER							
MARK	SIZE	NO.	TYPE	X	Y	LENGTH	WEIGHT
S 301	3	220	C			1'-6	124
S 401	4	14	STR.			35'-4	330
S 402	4	82	B			6'-4	347
S 501	5	166	STR.			4'-9	822
T 401	4	114	A			4'-8	355
T 402	4	14	E			3'-0	28
T 601	6	4	D	4'-6		6'-6	39
D 601	6	4	D	4'-2		6'-2	37
D 602	6	4	D	5'-0		7'-0	42

TOTAL LBS: 2,124

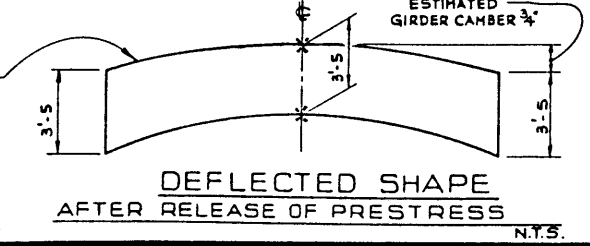
**GENERAL NOTES:**

- DESIGN:**
- A.A.S.H.O. 1949 SPECIFICATION EXCEPT ALLOWABLE FINAL CONCRETE STRESS = 420 P.S.I. IN TENSION.
  - LOADING: 0.90 OF ONE WHEEL LINE OF AN HS 20-44 TRUCK PLUS FULL DEAD LOAD PLUS 2 1/2" WEARING SURFACE.
- MATERIALS:**
- CONCRETE SHALL BE OF STANDARD WEIGHT AGGREGATE WITH A MAXIMUM SIZE OF 3/4". MINIMUM COMPRESSIVE STRENGTH SHALL BE 5,000 P.S.I. AT 28 DAYS. ENTRAINED AIR SHALL BE NOT LESS THAN 3%.
  - PRESSURING 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 190-64 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.
  - PRESSURING STEEL: INITIAL TENSIONING LOAD = 28.91 K/STRAND DESIGN LOAD = 23.98 K/STRAND
  - CONCRETE MUST ATTAIN 4,000 P.S.I. COMPRESSIVE STRENGTH BEFORE THE PRESSURING 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 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.



**NOTE:**  
24 - 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.



APPROVED		PROVINCE OF ALBERTA DEPARTMENT OF HIGHWAYS AND TRANSPORT BRIDGE BRANCH	
 CHIEF BRIDGE ENGINEER		<b>PRESTRESSED CONCRETE 70'-0" TYPE FC-41" GIRDER</b>	
DESIGNED	DRAWN BY	DATE	CHECKED BY
E. B. J.	V. G. B.	JAN. 1973	J. C. J.
REVISIONS		DATE	DESCRIPTION
1/1/73 REDRAWN FROM S-881			
NO.	DATE	DESCRIPTION	BY
DESIGNED	DRAWN BY	DATE	CHECKED BY
E. B. J.	V. G. B.	JAN. 1973	J. C. J.
DATE	STREAM	LOCATION	HWY. NO.
APR. 73			
SCALE	FILE NO.	SHEET	DWG. NO.
SHOWN		OF	S-881-73