

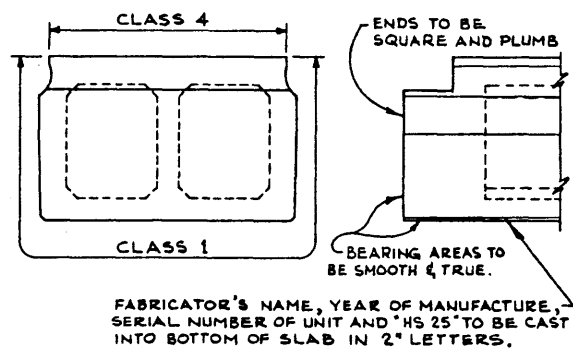
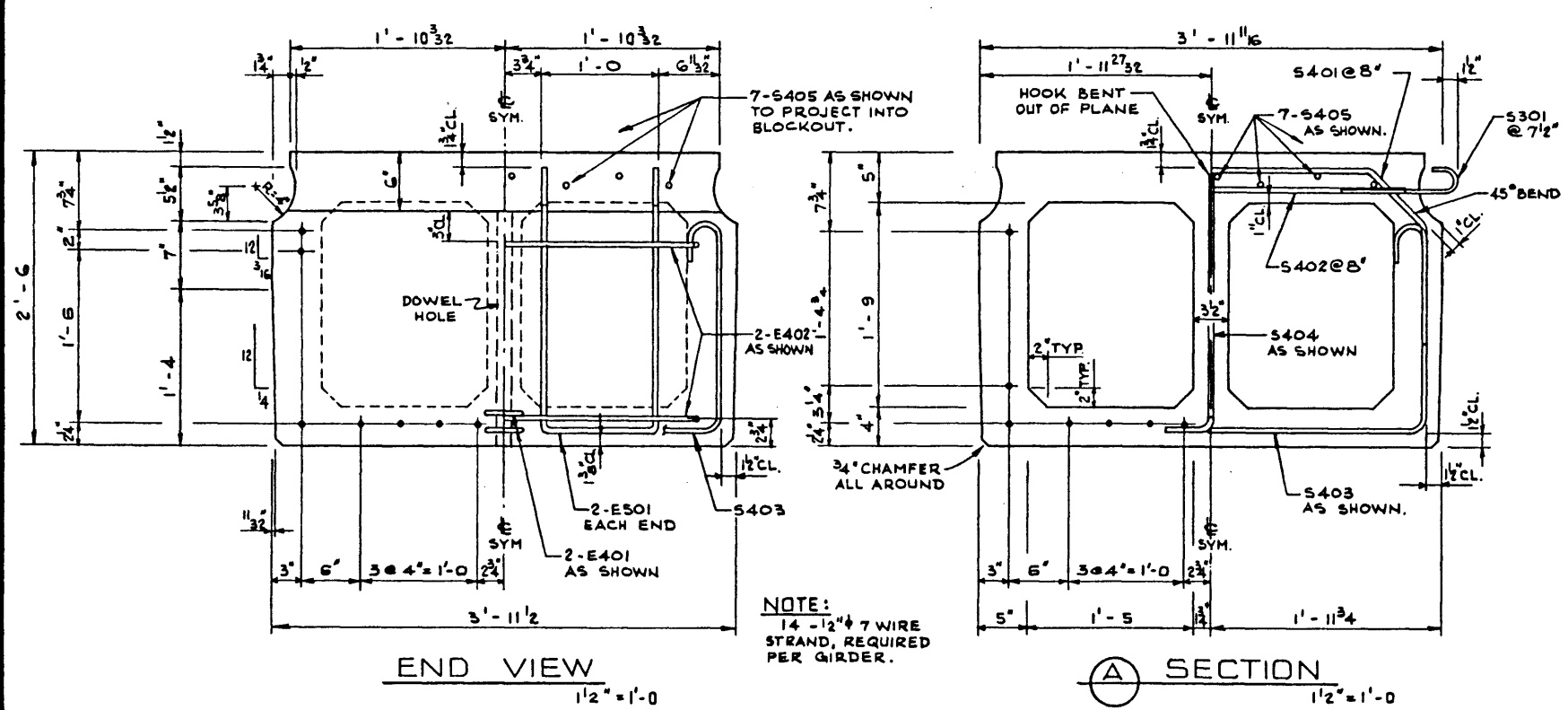
BAR LIST: FOR UNSKEWED GIRDER							
MARK	SIZE	NO.	TYPE	X	Y	LENGTH	WEIGHT
S 301	3	156	A			1'-5	83
S 401	4	73	B			6'-2	301
S 402	4	73	STR.			3'-4	163
S 403	4	41	C			8'-3	226
S 404	4	37	D			3'-0	74
S 405	4	14	STR.			25'-4	237
E 501	5	4	E			6'-4	26
E 401	4	4	F			3'-4	9
E 402	4	4	G			5'-4	14

TOTAL LBS: 1,133

**GENERAL NOTES**

- DESIGN:
- A.A.S.H.O. 1973 SPECIFICATION EXCEPT AS MODIFIED BELOW.
  - ALLOWABLE TENSION AT 80% MODULUS OF RUPTURE.
  - NO TENSION IN DECK SURFACE.
  - WEB REINFORCEMENT - ACCORDING TO A.C.I. 318-71 BUT NOT LESS THAN A.A.S.H.O. MINIMUM.
- LOADING LIVE LOAD - A.A.S.H.O. HS-20-44  
 0.70 WHEEL LINE PER GIRDER  
 DEAD LOAD - GIRDER = 0.64 KIPS/FT.  
 WEARING SURFACE = 0.10 KIPS/FT.

- MATERIALS:
- CONCRETE IN GIRDER SHALL BE MADE OF LIGHTWEIGHT COARSE AGGREGATE AND SAND FINES.
  - CONCRETE 28 DAY STRENGTH 5000 PSI.
  - RELEASE STRENGTH 4000 PSI.
  - UNIT WEIGHT OF SEMI-LIGHTWEIGHT CONCRETE 120 LB./CU. FT.
  - 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 FOR THE MANUFACTURE OF PRESTRESSED CONCRETE BRIDGE UNITS.
  - FORCE IN PRESTRESSING STEEL:  
 INITIAL TENSIONING LOAD = 25.73 K/STRAND  
 DESIGN LOAD AFTER LOSSES = 21.96 K/STRAND
- ERECTION:
- LIFTING FORCE AT EACH HOOK SHALL NOT EXCEED 35° FROM THE VERTICAL. GIRDER SURFACE MUST BE LEVEL AT ALL TIMES.
  - CALCULATED WEIGHT OF ONE GIRDER IS 32,370 LBS.



APPROVED		PROVINCE OF ALBERTA DEPARTMENT OF HIGHWAYS AND TRANSPORT BRIDGE BRANCH	
<i>[Signature]</i>		50 FT. TYPE RD-30 INTERIOR GIRDER SEMI-LIGHTWT. CONCRETE	
CHIEF BRIDGE ENGINEER		DATE JAN 8 1976	
REVISIONS			
NO.	DATE	DESCRIPTION	BY
DESIGNED	DRAWN BY	DATE	CHECKED BY
R. G. G.	V. G. B.	FEB/74	
D. K. D.			
DATE	STREAM	LOCATION	HWY. NO.
SCALE	FILE NO.	SHEET	DWG. NO.
SHOWN		OF	51225