

BAR LIST: FOR UNSKEWED GIRDER							
MARK	SIZE	NO.	TYPE	X	Y	LENGTH	WEIGHT
△ S 301	3	140	A			1'-5	75
S 401	4	65	B			6'-2	268
S 402	4	65	STR.			3'-4	145
△ S 403	4	37	C			8'-3	204
S 404	4	33	D			3'-0	66
△ S 405	4	14	STR.			22'-10	214
E 501	5	4	E			6'-4	26
E 401	4	4	F			3'-4	9
E 402	4	4	G			5'-4	14

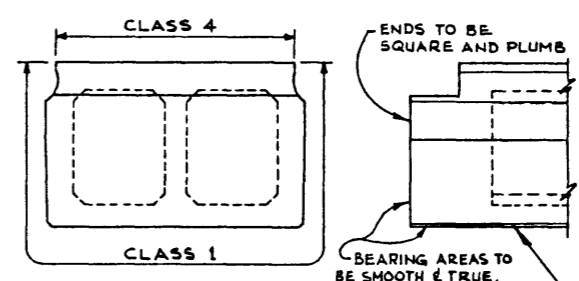
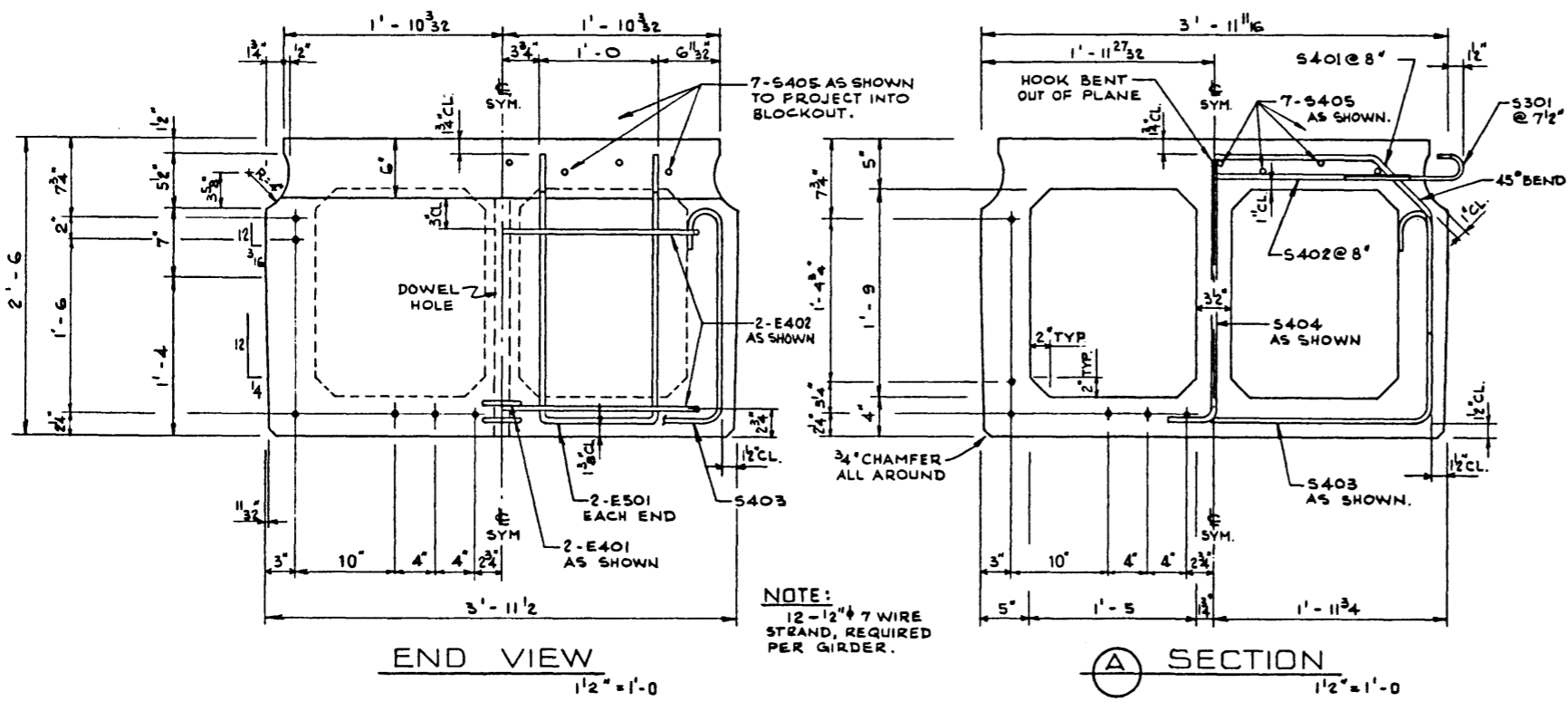
TOTAL LBS: 1,125  
△ 1021

**GENERAL NOTES**

- DESIGN:**
- A.A.S.H.O. 1973 SPECIFICATION EXCEPT AS MODIFIED BELOW.
  - ALLOWABLE TENSION AT  $\frac{1}{2}$  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-25-44
  - 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 = 28.73 K/STRAND  
DESIGN LOAD AFTER LOSSES = 22.31 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 28,350 LBS.



APPROVED <i>[Signature]</i> CHIEF BRIDGE ENGINEER		PROVINCE OF ALBERTA DEPARTMENT OF HIGHWAYS AND TRANSPORT BRIDGE BRANCH	
16 DECK BAR LIST		45 FT. TYPE RD-30 INTERIOR GIRDER SEMI-LIGHTWT. CONCRETE	
DESIGNED R. G. Q. D. K. D.		DATE JAN 8 1978	
DRAWN BY V. G. B.		FILE NO. S-1223	
DATE APRIL '75		SHEET 1 OF 1	
CHECKED BY		DWG. NO.	
DATE		SCALE SHOWN	
STREAM		LOCATION	
HWY. NO.		SHEET	