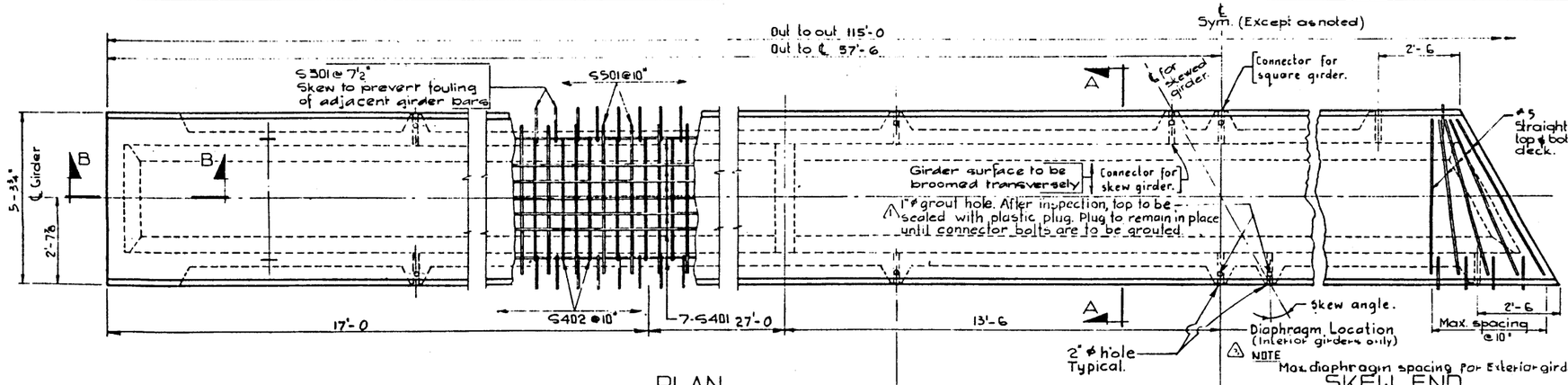
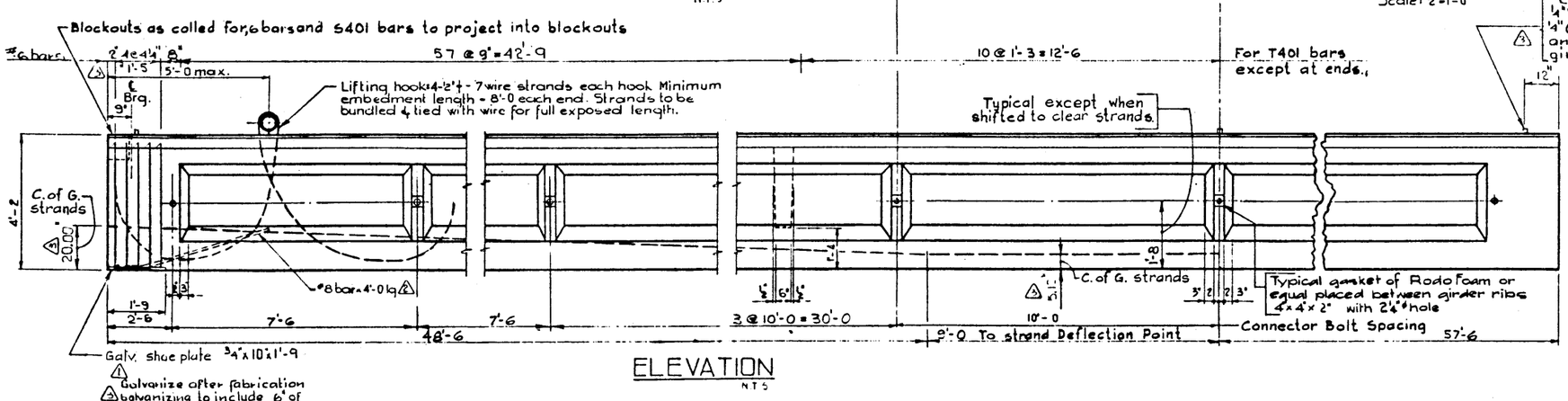


PLAN
N.T.S

SKEW END
Scale: ½"=1'-0

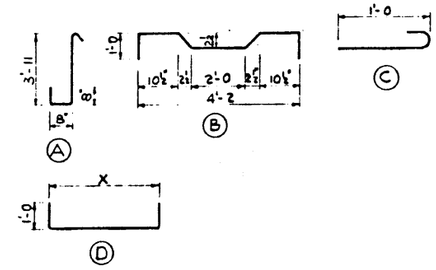


ELEVATION
N.T.S

BAR LIST For Unskewed Girder							
Mark	Size	No.	Type	X	Y	Length	Weight
D601	6	8	D	4'-2		6'-2	74
D602	6	4	D	5'-0		7'-0	42
S 301	3	368	C			1'-5	196
S401	4	21	str			39'-0	547
S402	4	138	B			6'-4	584
S501	5	278	str			4'-9	1377
⚠3 T401	4	270	A			5'-8	1022
⚠3 T601	6	1	D	4'-6		6'-6	39

⚠3 TOTAL Lbs: 3,881

BAR TYPES
(All bar dimensions are out to out)



GENERAL NOTES :

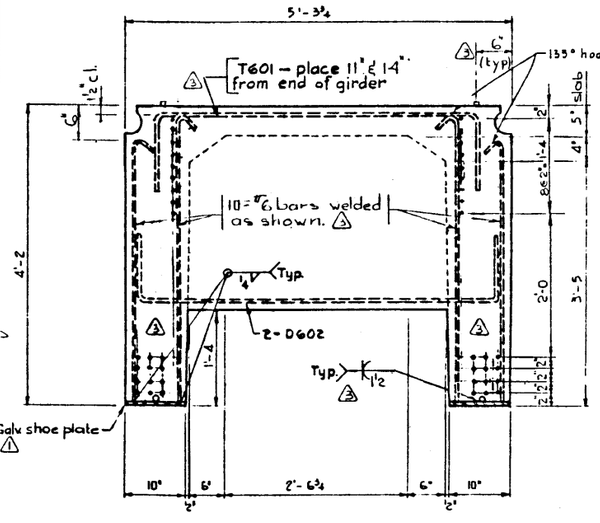
DESIGN
A.A.S.H.O. 1965 Specification.
A.C.I. 318-63 Shear Design, Fsp. = 5.67
Loading: 0.90 of one wheel line of an H S 20 - 44 truck plus full dead load plus 2½" wearing surface.

MATERIALS
- Prestressing steel is 270 K ½"ϕ 7-wire strand
- Lightweight aggregates shall conform to the requirements of A.S.T.M. Specification C330 with max. aggregate size ¾". Min. 28 days compressive strength to be 5000 psi. 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%.

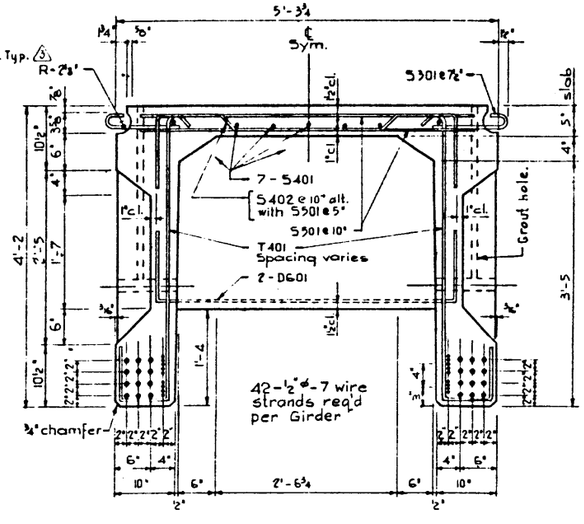
FABRICATION
- Reinforcement: Diameters of all bends shall conform to the recommended sizes and all hooks, unless otherwise noted, shall conform to the recommended sizes detailed in the A.C.I. Manual of Standard Practice for Detailing Reinforced Concrete Structures.
- Prestressing steel: Initial tensioning load = 28.9 K/Strand. Design Load = 20.7 K/Strand
- Concrete must attain 4250 p.s.i. compressive strength before the prestressing force is transferred.
- Galvanizing shall be in accordance with A.S.T.M. Spec. A153.
- Units are to conform to the requirements of the Alberta Bridge Branch Specification B190 - 64 for the Manufacture of Prestressed Concrete Bridge Units.

ERECTION
- Lifting force at each hook must be vertical at all times.
- Girder surface must be level at all times.

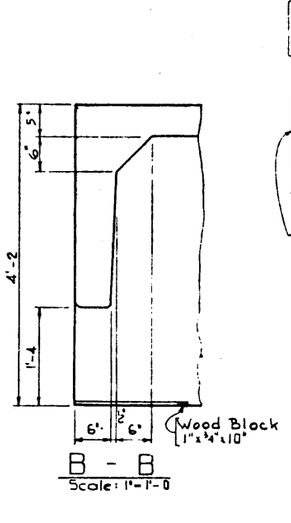
(1)



END VIEW
Scale: 1"=1'-0

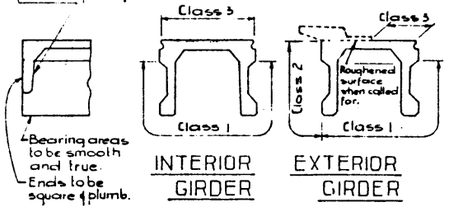


A - A
Scale: 1"=1'-0

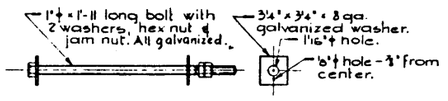


B - B
Scale: 1"=1'-0

Fabricator's name, year of manufacture, and serial number of unit to be cast into diaphragm in 2" letters.



GIRDER FINISHES
N.T.S.



CONNECTOR BOLT

NO.	DATE	DESCRIPTION	BY
⚠4			
⚠3	July 18/69	General	J.R.Cl.
⚠2	Mar. 3 69	Shoe Plate Anchor Bar	T. B
⚠1	Nov. 12/68	1" ϕ hole & galv shoe pl.	R Ch

REVISIONS

DESIGNED BY T. BELKE DATE FEBRUARY 1968
DETAILED BY M.K. PIAK DATE FEBRUARY 1968
CHECKED BY J.K. Johnson DATE Jan 1969

PRESTRESSED CONCRETE 115'-0 TYPE FC-50 GIRDER LIGHTWEIGHT UNIT

GOVERNMENT OF THE PROVINCE OF ALBERTA
DEPARTMENT OF HIGHWAYS
BRIDGE BRANCH, EDMONTON

FILE NO. ____ HWY. NO. ____ DWG. NO. S-976
LOCATION ____ SCALE ____
STREAM ____ SHEET ____ OF ____

MP-174

P 2127