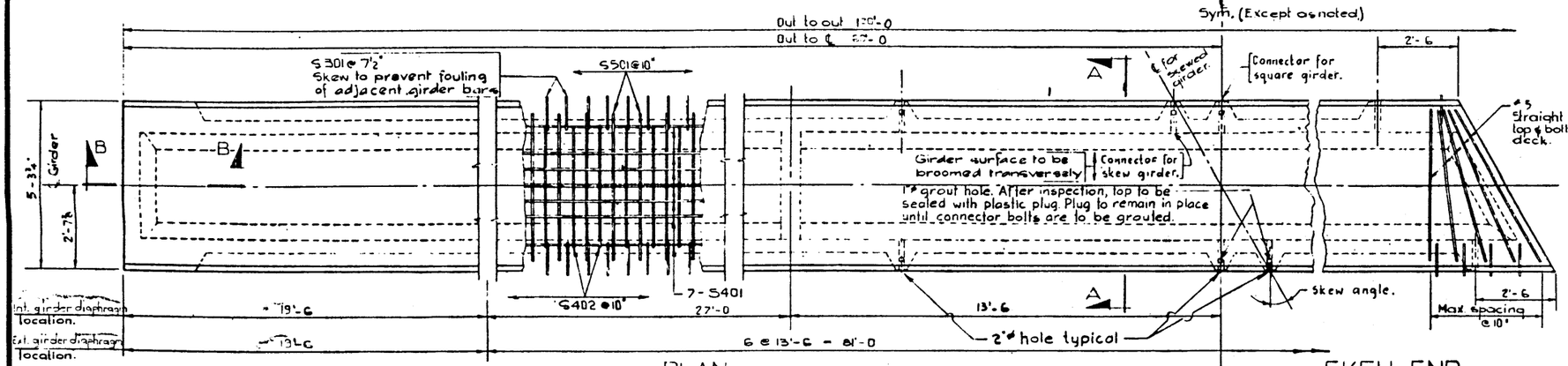
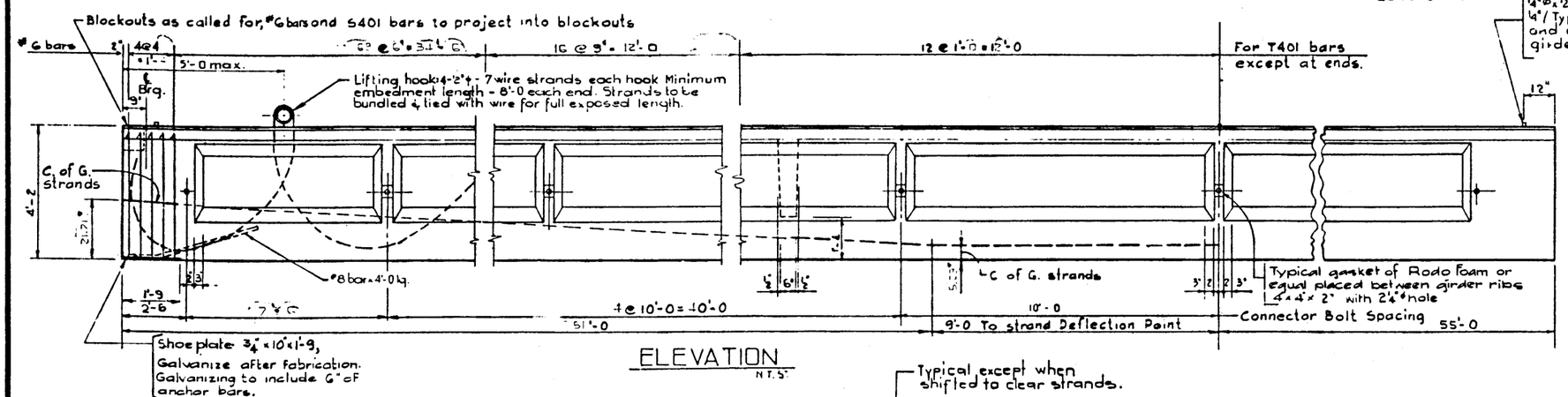


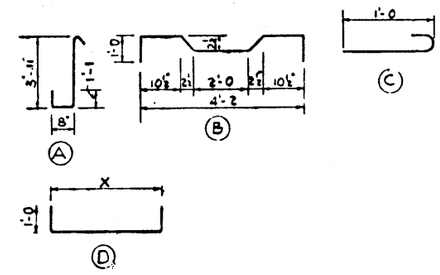
PLAN
N.T.S.

SKEW END
Scale: ½"=1'-0



ELEVATION
N.T.S.

BAR TYPES
(All bar dimensions are out to out)



BAR LIST For Unskewed Girder

MARK	SIZE	NO.	TYPE	"B"	"Y"	LENGTH	WEIGHT
D601	6	8	D	4'-2		6'-2	74
D602	6	4	D	5'-0		7'-0	42
S301	3	3,84	C			1'-5	205
S401	4	28	str			30-9	575
S402	4	144	B			6'-4	609
S501	5	390	str			4'-9	1437
T401	4	390	A			5'-0	1563
T601	6	4	D	4'-6		5'-6	19

TOTAL Lbs: 4,544

GENERAL NOTES :

DESIGN

A.A.S.H.O. 1969 Specification. Plus 1971 interims.
ACI 318-63. Shear Design, F_{sp} = 5.G.7
Loading: 0.90 of one wheel line of an HS 20 - 44 truck plus full dead load plus 2½" wearing surface.

MATERIALS

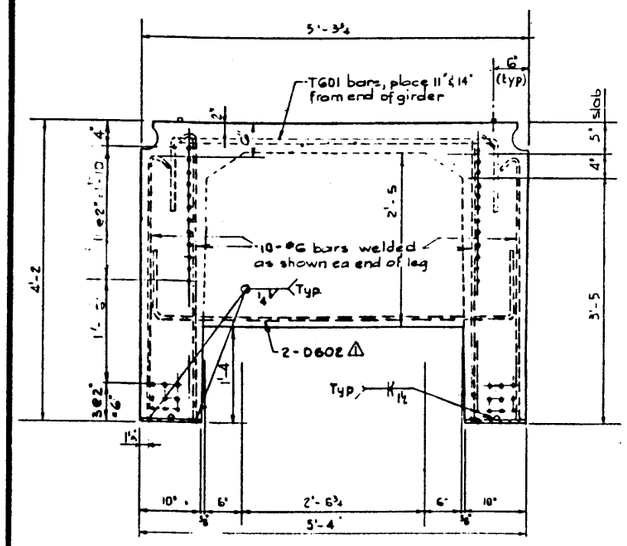
- Prestressing steel is 270K ½"ϕ - 7 wire strand.
- Light weight aggregates shall conform to the requirements of A.S.T.M. Specification C330 with max. aggregate size of ¾". Min. 28 day compressive strength to be 6000 p.s.i. Unit weight of the concrete shall be 120 lbs. per cubic foot plus or minus 5% in the plastic state. Entrained air shall be not less than 5%.

FABRICATION

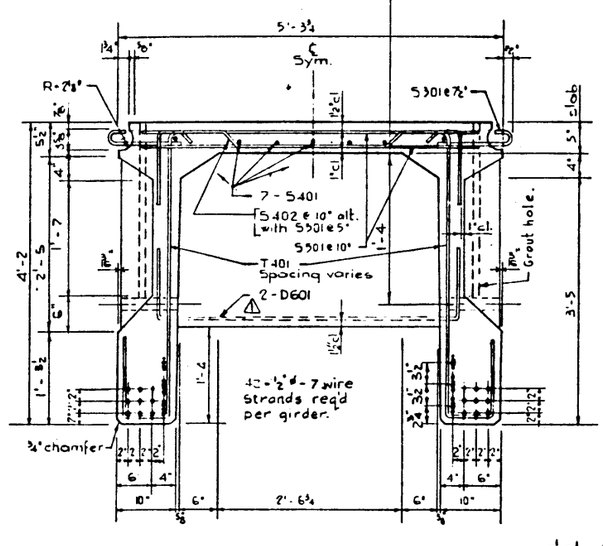
- Reinforcement: Diameters of all bends shall conform to the recommended sizes and all hooks, unless otherwise noted, shall conform to the recommended sizes detailed in the A.C.I. Manual of Standard Practice for Detailing Reinforced Concrete Structures.
- Prestressing steel: Initial tensioning load = 189K / Strand
  Design Load = 172K / Strand
- Concrete must attain 4000 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

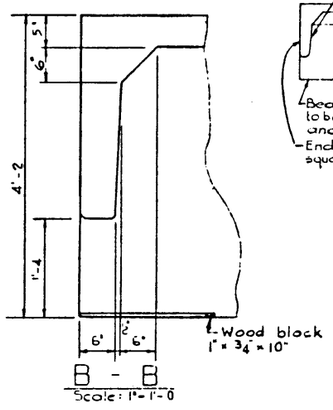
- Lifting force at each hook must be vertical at all times.
- Girder surface must be level at all times.



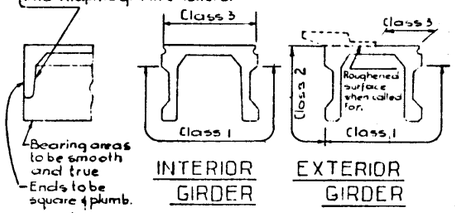
END VIEW
Scale: 1"=1'-0



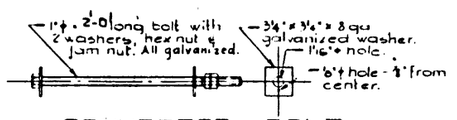
A - A
Scale: 1"=1'-0



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



GIRDER FINISHES
N.T.S.



CONNECTOR BOLT

DESIGNED BY Shik Lee DATE June 19 71
DETAILED BY V. Boychuk DATE June 19 71
CHECKED BY T. Belke DATE June 19 71

NO.	DATE	DESCRIPTION	BY
1	MARCH 24, 72	D601 & D602 SHOWN	R.W.L

REVISIONS

PRESTRESSED CONCRETE 120'-0 TYPE FC-50A GIRDER

LIGHTWEIGHT CONCRETE

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

FILE NO. ____ HWY. NO. ____ DWG. NO. S-1044
LOCATION ____ SCALE ____
STREAM ____ SHEET ____ OF ____

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