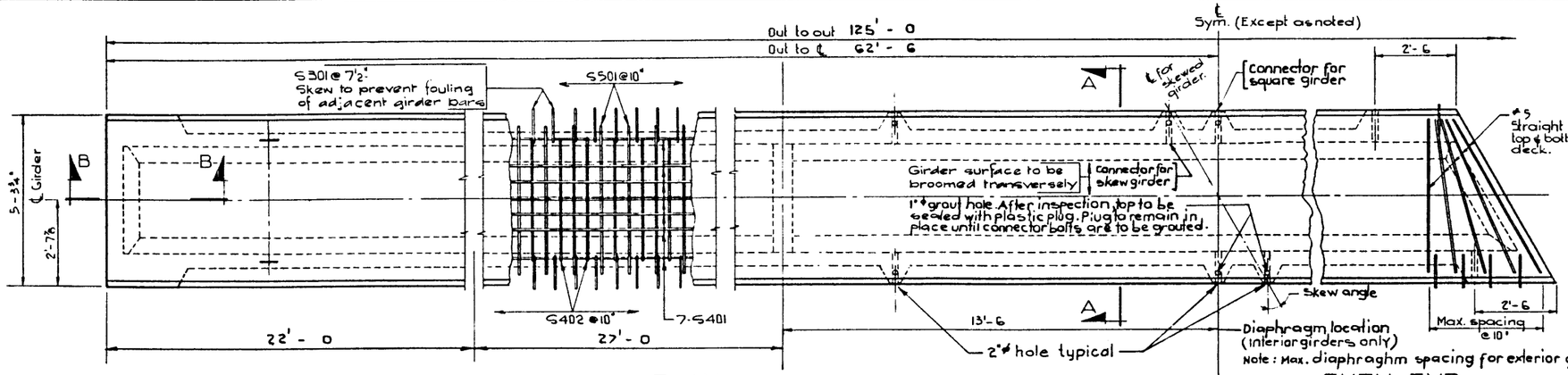
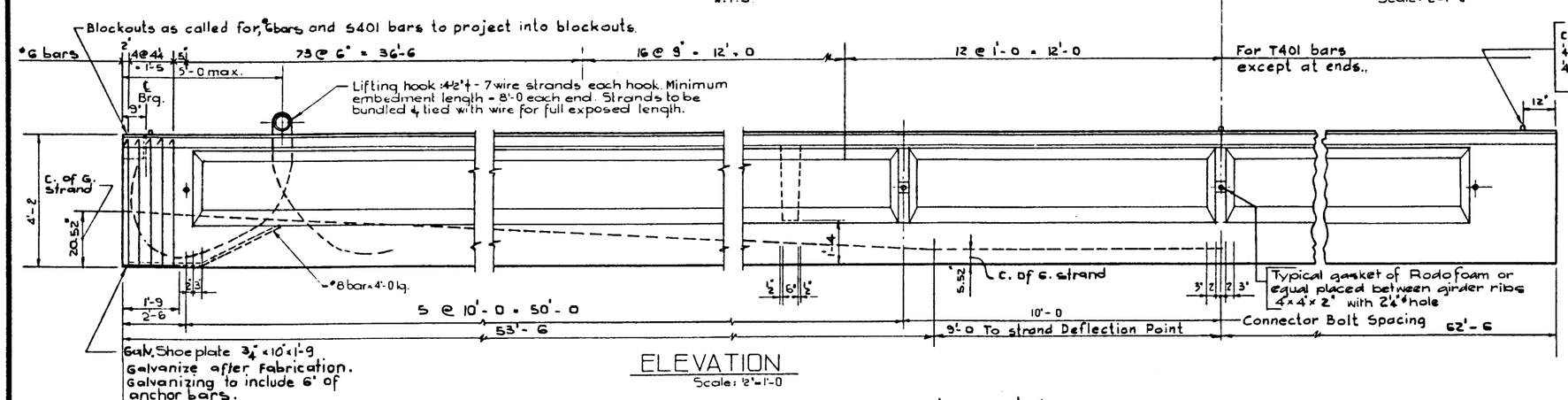


PLAN
N.T.S.

SKEW END
Scale: ½"=1'-0

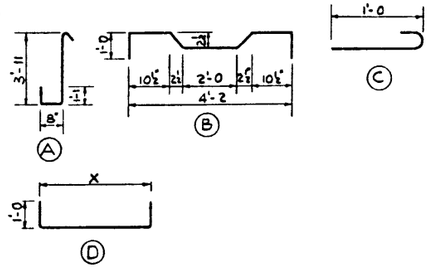
BAR LIST							
MARK	SIZE	NO	TYPE	"X"	"Y"	LENGTH	WEIGHT
DG01	6	8	D	4'-2		6'-2	74
DG02	6	4	D	5'-0		7'-0	42
S301	3	400	C			1'-5	215
S401	4	28	str.			32'-0	599
S402	4	150	B			6'-4	635
S501	5	302	str.			4'-9	1496
T401	4	410	A			6'-0	1,643
T601	6	4	D	4'-6		6'-6	39

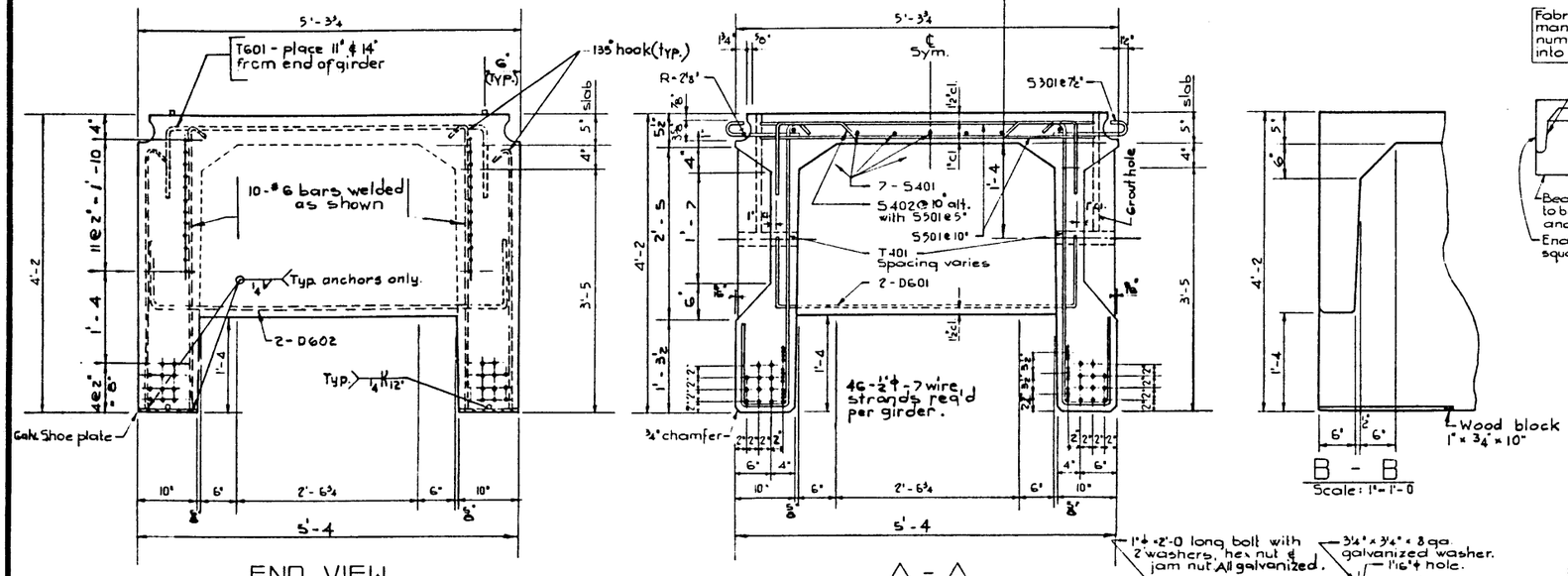
TOTAL Lbs: 4,741

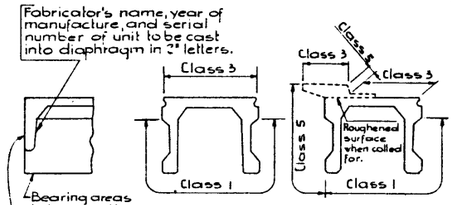


ELEVATION
Scale: ½"=1'-0

BAR TYPES
(All bar dimensions are out to out)







GIRDER FINISHES
N.T.S.

GENERAL NOTES:

DESIGN
A.A.S.H.O. 1965 Specification.
A.C.I. 318-63 Shear Design, F_{sp} = 5.67
Loading: 0.90 of one wheel line of an H20-44 truck plus full dead load plus 2½" wearing surface.

MATERIALS
- Prestressing steel is 270K ½"ϕ-7 wire strand.
- Lightweight aggregates shall conform to the requirements of A.S.T.M. specification C330 with max. aggregate size of ¾". Min. 28 days compressive strength to be 5000 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 = 28.5 K/strand
  Design Load = 21.9 K/strand
- Concrete must attain 4500 p.s.i. compressive strength before the prestressing force is transferred.
- Galvanizing shall be in accordance with A.S.T.M. specification
- Units are to conform to the requirements of the Alberta Bridge Branch specification B180-64 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 time.

(1)

DESIGNED BY Reg. Quinton DATE November 19 71
DETAILED BY M. FILIPIAK & L.K. DATE No. entered 19 71
CHECKED BY DATE 19

NO.	DATE	DESCRIPTION	BY
		REVISIONS	

PRESTRESSED CONCRETE 125'-0 TYPE FC-50A GIRDER
LIGHTWEIGHT UNIT

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

FILE NO. ____ HWY. NO. ____ DWG. NO. S-1045
LOCATION ____ SCALE ____
STREAM ____ SHEET ____ OF ____

MP-174

P02133