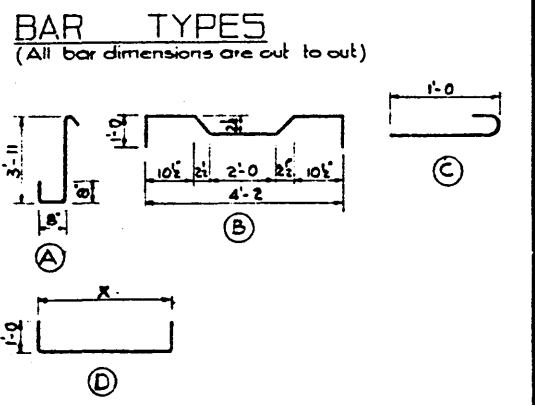
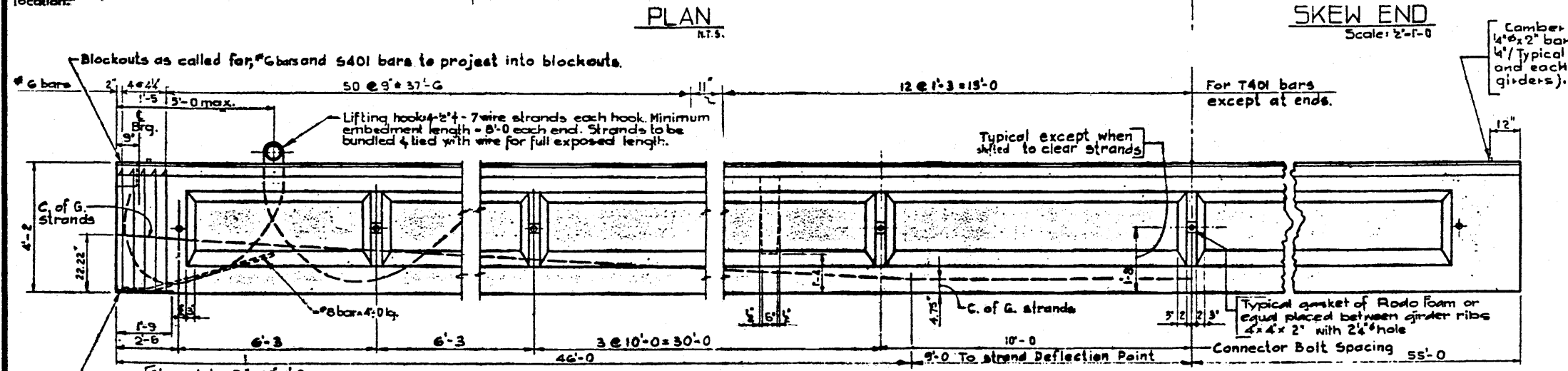
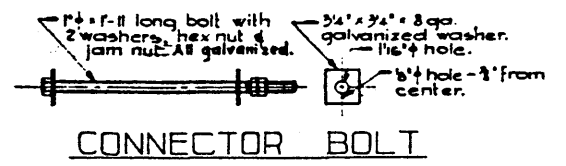
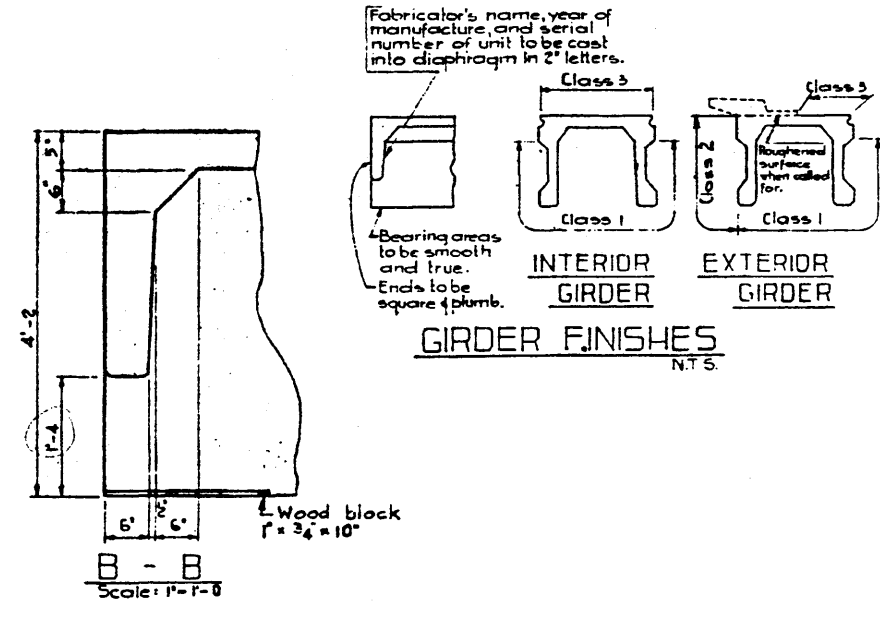
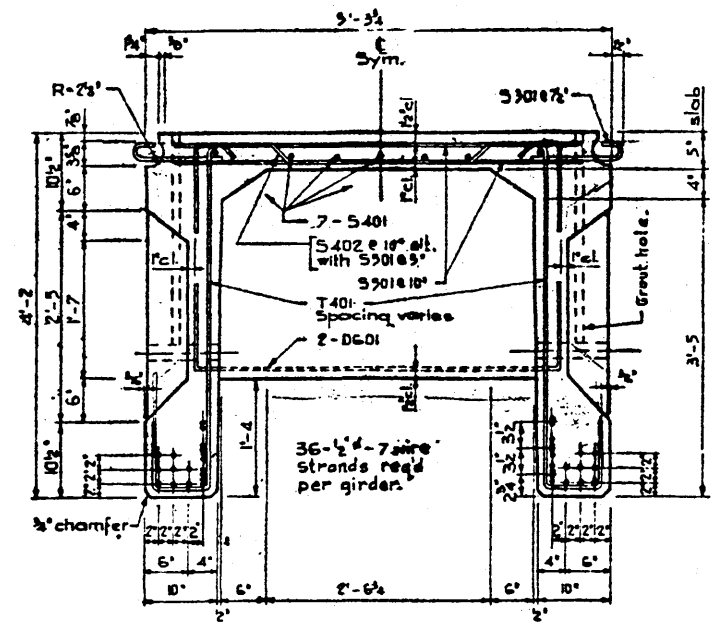
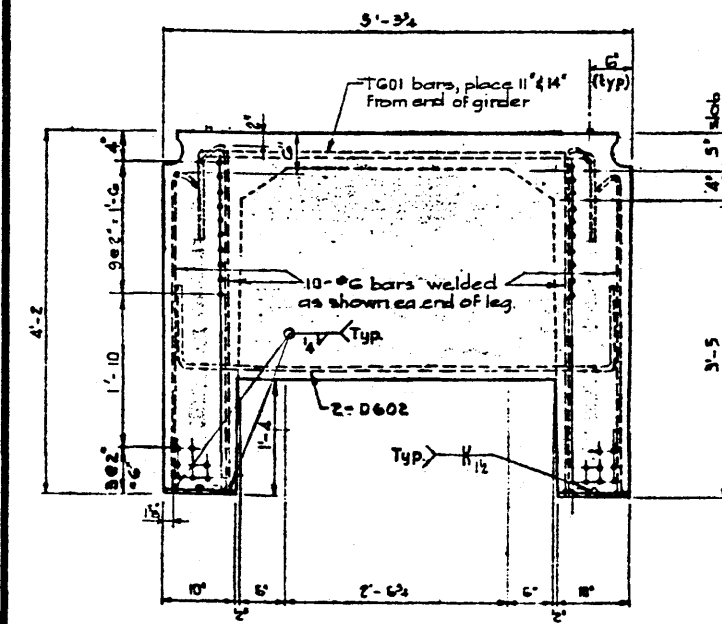


BAR LIST For Unkeyed Girder							
Mark	Size	No.	Type	X	Y	Length	Weight
D601	6	8	D	4'-2		6'-2	74
D602	6	4	D	5'-0		7'-0	42
S301	3	352	C			1'-5	188
S401	4	21	str			37'-4	524
S402	4	132	B			6'-4	558
S501	5	266	str			4'-9	1318
T401	4	254	A			5'-8	961
T601	6	4	D	4'-6		6'-6	39
							TOTAL Lbs: 3,704



- GENERAL NOTES:**
- DESIGN**
 A.A.S.H.O. 1965 Specification.
 ACI 318-63 Shear Design, $f_{sp} = 3.67$
 Loading: 0.90 of one wheel line of an H5 20 - 44 truck plus full dead load plus 2/2" wearing surface.
- MATERIALS**
 • Prestressing steel is 270K 1/2" - 7 wire strand.
 • Light weight aggregates shall conform to the requirements of A.S.T.M. Specification C930 with max aggregate size of 3/4". Min. 28 day 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 = 21.9 K Strand Design Load
 • 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.



NO.	DATE	DESCRIPTION	BY
REVISIONS			

PRESTRESSED CONCRETE 110'-0 TYPE FC-50 GIRDER LIGHTWEIGHT CONCRETE

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

FILE NO. _____ HWY. NO. _____ DWG. NO. _____
 LOCATION _____ SCALE _____ SHEET _____ OF _____
 STREAM _____

DESIGNED BY: Shik, Les. DATE: JUNE, 1963
 CHECKED BY: V. Boychuk DATE: JUNE, 1963
 CHECKED BY: T. R. K. DATE: JUNE, 1963