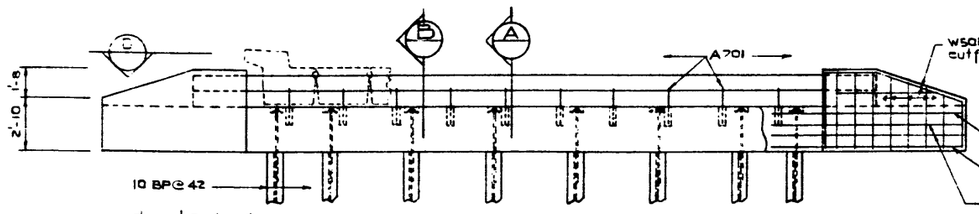
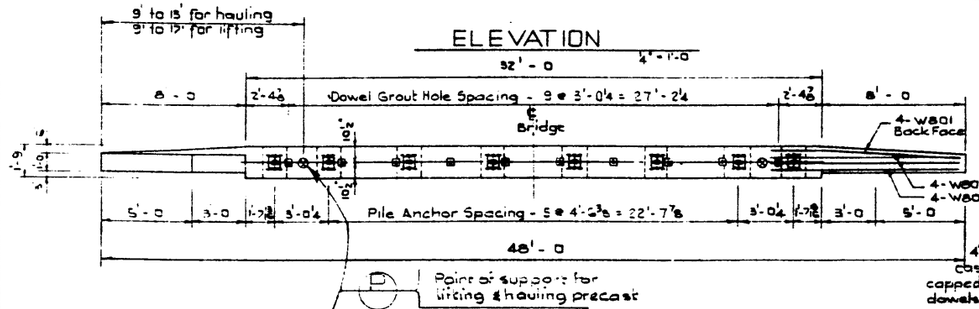
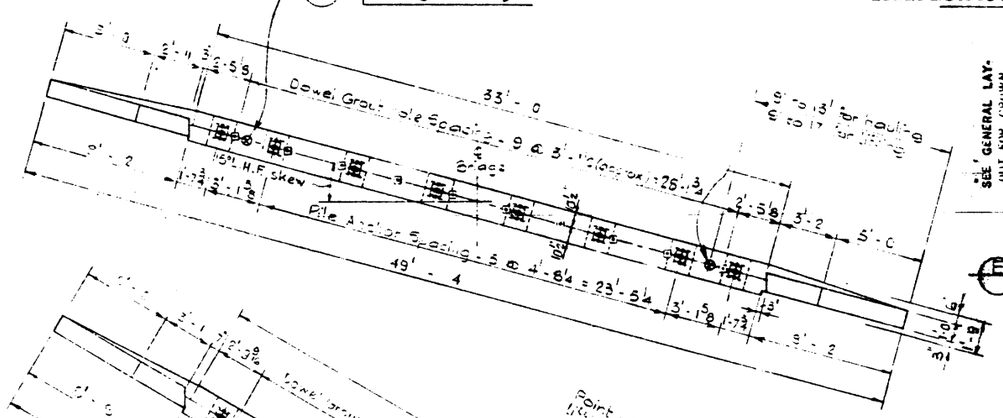


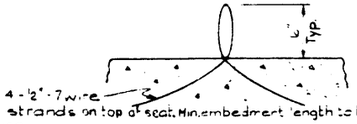




ERECTION PROCEDURE:

1. Cut off piles 12" short.
2. Jack or shim seat to proper elevation.
3. Check slope and position cap.
4. Weld [illegible] ling Plates.
5. Instal[illegible] Anchor Bolts and weld to piles.
6. Tighten Pile Anchor Bolts.
7. Grout Pile Anchor Bolt recesses.

(D) TOP PLATES
1/4" = 1'-0



Lifting hooks 4-1/2" - 7 wire prestressing strands on top of seat. Min. embedment length to be 5'-0 each end. Burn off after use.

(P) LIFTING HOOK DETAIL
1 1/2" = 1'-0

BAR LIST — 1 Abutment 0° skew

MARK	SIZE	NO	TYPE	"X"	"Y"	LENGTH	WEIGHT
A401	4	35	A			7'-8	169
A901	9	4	B	31'-8		34'-2	464
A701	7	10	Str.			2'-4	48
A902	9	6	Str.			31'-5	646
W801	8	5	C	7'-10		10'-11	239
W802	8	16	Str.			10'-11	466
W501	5	6	Str.			40'-0	250

Total lbs: 2276

BAR LIST — 1 Abutment 15° skew

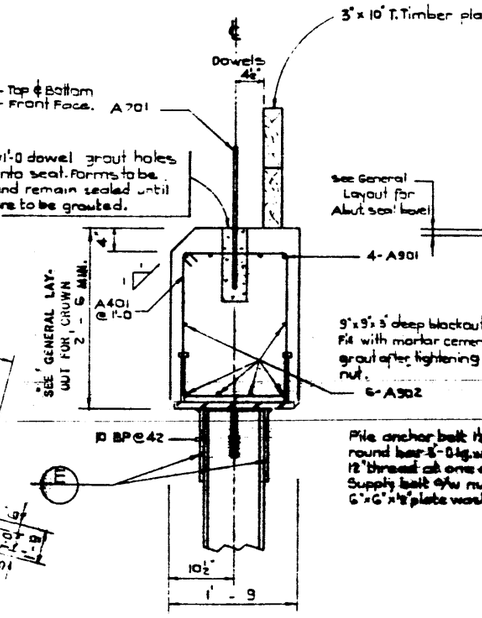
MARK	SIZE	NO	TYPE	"X"	"Y"	LENGTH	WEIGHT
A401	4	36	A			7'-8	174
A901	9	4	B	32'-8		35'-2	478
A701	7	10	Str.			2'-4	48
A902	9	6	Str.			32'-8	666
W801	8	8	C	8'-0		11'-1	286
W802	8	16	Str.			11'-1	473
W501	5	6	Str.			40'-0	250

Total lbs: 2325

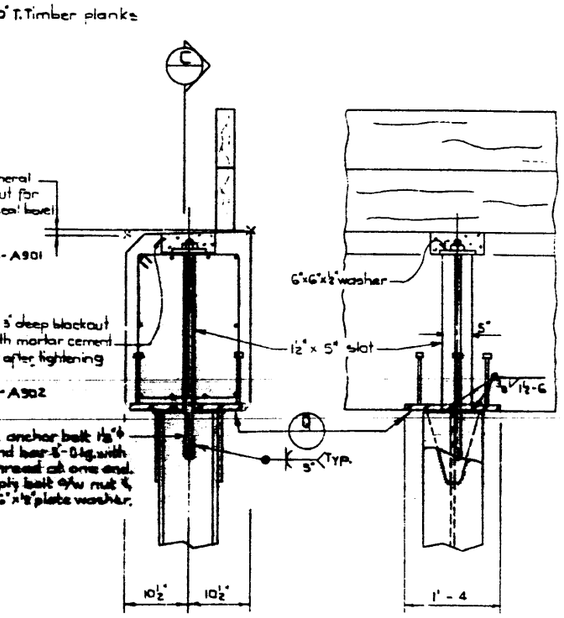
BAR LIST — 1 Abutment 30° skew

MARK	SIZE	NO	TYPE	"X"	"Y"	LENGTH	WEIGHT
A401	4	38	A			7'-8	195
A901	9	4	B	36'-8		39'-2	533
A701	7	10	Str.			2'-4	48
A902	9	6	Str.			36'-8	748
W801	8	8	C	8'-8		11'-7	247
W802	8	16	Str.			11'-7	495
W501	5	6	Str.			40'-0	250

Total lbs: 2516

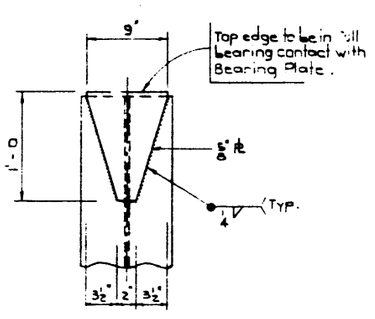


(A) SECTION
1" = 1'-0



(B) SECTION
1" = 1'-0

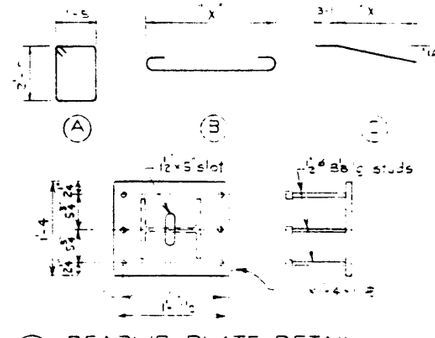
(C) SECTION
1" = 1'-0



(E) LEVELLING PLATE DETAIL
16 - Reqd
1 1/2" = 1'-0

BAR TYPES :

All bar dimensions are c to c to out.)



(Q) BEARING PLATE DETAIL
1" = 1'-0

GENERAL NOTES :

- Concrete shall be of standard weight aggregate with a maximum size of 3/4". Minimum compressive strength shall be 4000 p.s.i. at 28 days. Air entrainment shall be not less than 5%. Units are to conform to the requirements of the Bridge Branch Specifications for Manufacture of Precast Concrete Units, B-131-64.
- All reinforcing to have a 2" clear cover unless otherwise noted.
- All surfaces except bottom and Fill side of wingwalls and seat to be given a Class 5 Finish.
- All exposed corners to have 3/4" chamfer or Fillet unless otherwise noted.
- Bearing seat and wingwalls to be plant cast in a single unit.
- Piles shall be driven to the elevations shown on the General Layout or to a bearing value of 30 tons when the capacity is estimated by a bearing formula.
- All welding shall conform to A W S Specification. When temperature is below 32°F. preheat the base metal to at least 200 °F. for 3" both laterally and in advance of the welding. Welding shall not be done when the temperature is lower than 0°F. unless protection is provided for the operator and the enclosure is heated to at least 70°F.
- Precast abutment to be in upright position and supported at points indicated at all times.
- Weight of Precast Abutment:
  - 0° Skew - 33 K
  - 15° Skew - 34 K
  - 30° Skew - 36 K
- Neoprene bearing pads:
  - 0° skew - 9" x 3/8" x 32"-0", 60 Hardness
  - 15° skew - 9" x 3/8" x 33"-0", 60 Hardness
  - 30° skew - 9" x 3/8" x 37"-0", 60 Hardness
- All requirements of the Bridge Branch Stand. for the Supply of Structural Steel for Bridges. (Spec No B167-64)
- All Steel shall meet CSA G40.12 or A.S.T.M. A36
- Top of Steel = Piles to be cut square at 4" x 5" steel seat at top & bent at a radius of 4" as shown on the details. Primer shall conform to CGSB Spec. 1-GP-136A Type II and shall have a dry film thickness of 1.5 mils. Min. Before painting, all steel shall be sandblasted in accordance with SSPC-SP-6-63T or Steel Structures Painting Council - Painting shall not commence until approval of the bearing plates has been obtained from the Engineer.

(1)

NO.	DATE	DESCRIPTION	BY
		REVISIONS	

STANDARD TYPE M BRIDGE
27' ROADWAY, L.H.F. SKEW
ABUTMENT

GOVERNMENT OF THE PROVINCE OF ALBERTA
DEPARTMENT OF HIGHWAYS AND TRANSPORT
BRIDGE BRANCH EDMONTON

TITLE NO. ——— HWY. NO. ——— DWG. NO. S-1028
LOCATION ——— SCALE ———
STREAM ——— SHEET ——— OF ———

DESIGNED BY ... DATE 19 71
DETAILED BY ... DATE 19 71
CHECKED BY ... DATE 19 71

A-1335