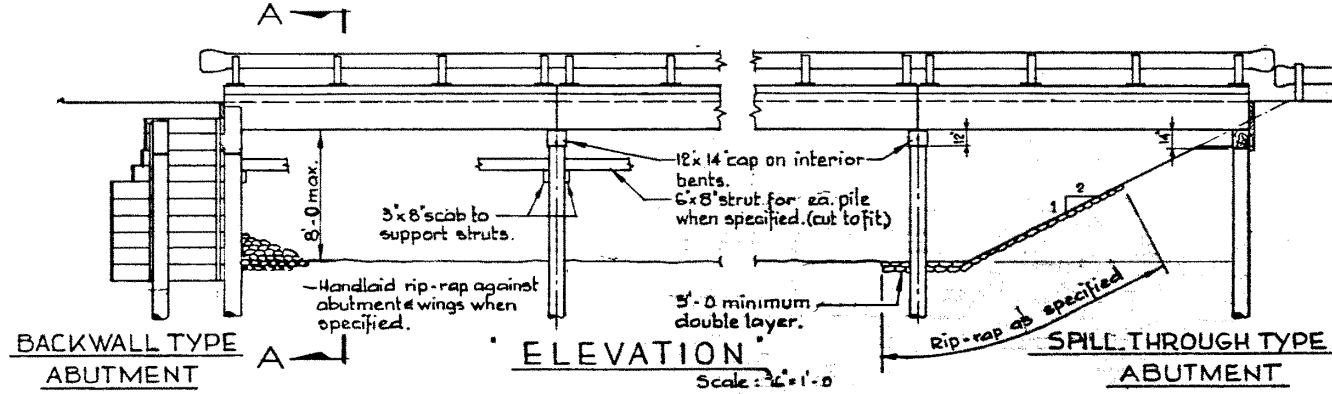


Mark	Size	Type	Washers	Placing of lbs. Required
1	2 1/2 x 22	Drifts		Caps & subcaps to piles
2	3/4 x 24	Headless Drifts		Stringer & splices to cap
3				For stringer, 2 per cap
3	3/8 x 20	Machine Bolts	2 - 3/8 O.G.	Cap splice - 4 per splice
4	3/4 x 22			Double away brace to cap
5	3/4 x 20			Single away brace to cap
6	3/8 x 7	Flexbeam Bolts	1 - 3/8 Lock	Guardrail to post
7	3/8 x 14			Guardrail splice - 4 per splice

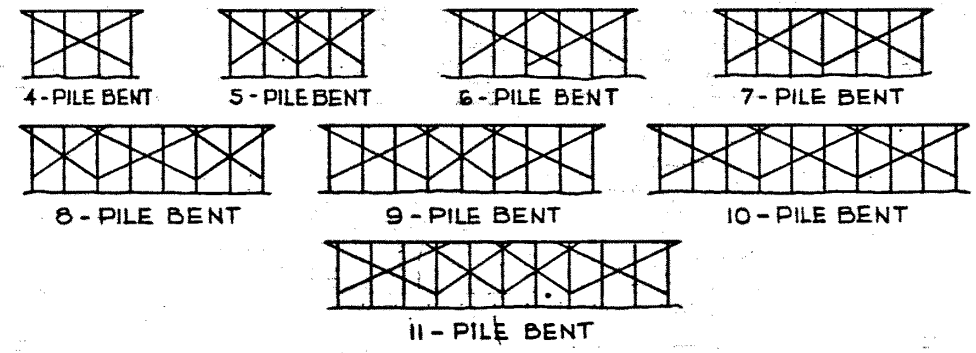
- GENERAL NOTES -**
- Pile splices to be driven a min. of 5' - 0" below ground level.
  - Piles to be driven to a min. of 20 tons bearing capacity.
  - Hardened washers are to be placed between the stringer connectors to fill up any space. The 3/4" high tensile bolts are to be tightened to 300 Ft. lbs. torque.
  - The connector holes are to be grouted with 3 parts sand to 1 part cement.
  - For bridge fills see Dwg. S-829.
  - For precast stringer units:
    - 20' HC: S-750 + S-791
    - 28' HC: S-791 + S-792
    - 33' HC: S-785 + S-785
    - 38' HC: S-786 + S-787
  - For bridges with crown and for spans of 35' and 38' see Dwg. S-862.



- TREATMENT OF TIMBER - IMPORTANT:**
- Pile tops under caps shall be coated with 3 applications of creosote oil and thoroughly covered with roofing pitch.
  - Exposed pile tops shall be treated as in a.) and in addition shall be covered with 20 ga. galvanized sheet iron of a size 4" greater in diameter than the pile. Neatly trim iron, bend down and fasten to pile with galvanized roofing nails.
  - Treated timber shall be carefully handled, so as to avoid breaking of outer fibers and bruising or penetrating the surface. Tools to be used only on ends of timber.
  - All cuts and abrasions in treated timber shall, after careful trimming be coated with 2 applications of creosote and then be thoroughly covered with hot roofing pitch.
  - Treated piles must not be dapped for sway bracing in the field.
  - Bolt holes bored after treatment shall be carefully treated with creosote. Any unfilled holes shall be sealed with creosoted plugs.

PILE SPACING  
(Spacing to be centre to centre)

Clear Roadway	Slew	Cap Length	20' Span Abutment		28' Span Pier		20' - 20' Span Pier		20' - 28' Span Pier		28' - 28' Span Pier	
			No. of Piles	Pile Sp.	No. of Piles	Pile Sp.	No. of Piles	Pile Sp.	No. of Piles	Pile Sp.	No. of Piles	Pile Sp.
21'	0°	24'	5	5'-3"	5	5'-3"	6	4'-2 3/8"	6	4'-2 3/8"	7	3'-6"
	15°	26'	6	5'-5 1/2"	5	5'-5 1/2"	6	4'-4 1/8"	6	4'-4 1/8"	7	3'-7 1/2"
	30°	29'	5	6'-0 1/2"	5	6'-0 1/2"	6	4'-10 1/2"	6	4'-10 1/2"	7	4'-0 1/2"
	45°	36'	5	7'-5 1/2"	5	7'-5 1/2"	6	5'-11 1/4"	6	5'-7 1/4"	7	4'-11 1/8"
24'	0°	27'	5	6'-0"	6	4'-9 3/8"	6	4'-9 3/8"	7	4'-0"	8	3'-5 1/2"
	15°	29'	5	6'-2 1/2"	6	4'-11 3/8"	6	4'-11 3/8"	7	4'-1 1/4"	8	3'-6 1/2"
	30°	32'	5	6'-11 3/8"	6	5'-6 1/2"	6	5'-6 1/2"	7	4'-7 1/4"	8	3'-11 1/2"
27'	0°	30'	6	6'-5 1/2"	6	6'-9 1/2"	6	6'-9 1/2"	7	5'-7 1/4"	8	4'-10 1/2"
	15°	32'	6	6'-9 1/2"	7	4'-6"	7	4'-6"	8	3'-10 1/4"	8	3'-10 1/4"
	30°	35'	6	6'-2 1/2"	7	4'-7 1/2"	7	4'-7 1/2"	8	3'-11 1/4"	8	3'-11 1/4"
30'	0°	33'	6	6'-2 1/2"	7	4'-7 1/2"	7	4'-7 1/2"	8	3'-11 1/4"	8	3'-11 1/4"
	15°	35'	6	6'-2 1/2"	7	4'-7 1/2"	7	4'-7 1/2"	8	3'-11 1/4"	8	3'-11 1/4"
	30°	39'	6	6'-11 3/8"	7	5'-9 1/4"	8	4'-11 3/8"	8	4'-11 3/8"	9	4'-5 1/4"
30'	0°	35'	6	6'-5 1/2"	7	7'-0 1/2"	8	6'-0 1/2"	8	6'-0 1/2"	9	5'-3 1/2"
	45°	48'	6	8'-5 1/2"	7	7'-0 1/2"	8	6'-0 1/2"	8	6'-0 1/2"	9	5'-3 1/2"



SWAY BRACING LAYOUT

Single storey bracing. Double storey bracing to be used when height is over 14' - 0". All sway bracing 3x10" or 3x12" planks spiked and bolted to piles and cap.

**SUPERSEDED**

SUPERSEDED BY S-860-70 (3)

STANDARD PRECAST BRIDGES WITH TREATED TIMBER SUBSTRUCTURE

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

FILE NO. \_\_\_\_\_ WBY. NO. \_\_\_\_\_  
LOCATION \_\_\_\_\_ SCALE ON SHEET \_\_\_\_\_  
NO. \_\_\_\_\_ DATE \_\_\_\_\_ DESCRIPTION \_\_\_\_\_ BY \_\_\_\_\_  
REVISIONS

5-860-69

DESIGNED BY P. Szobis  
DATE 19 69  
CHECKED BY \_\_\_\_\_  
DATE \_\_\_\_\_