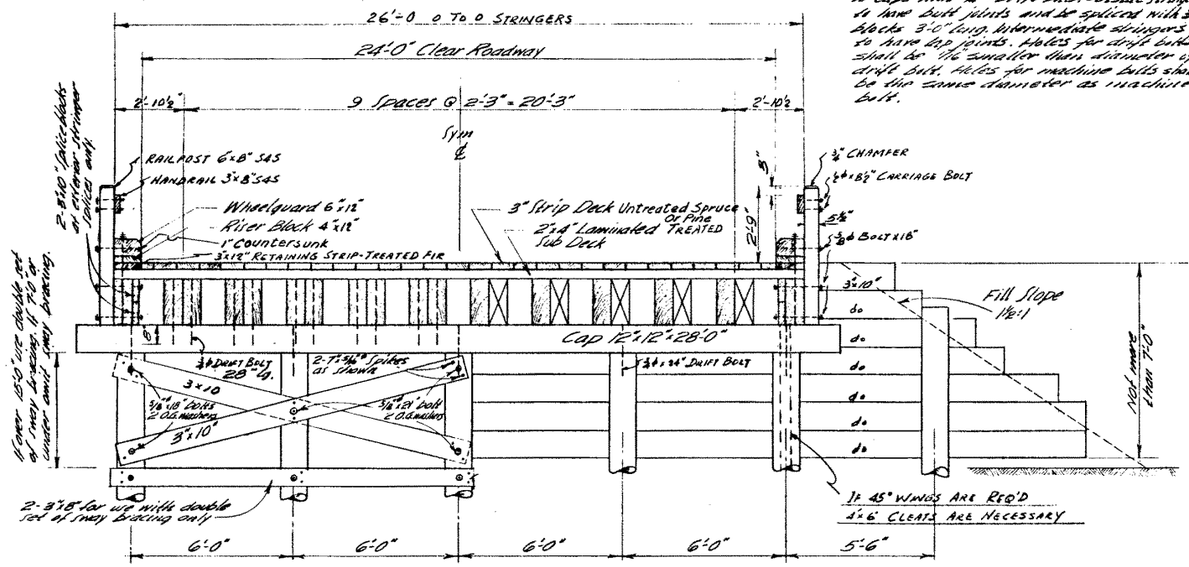
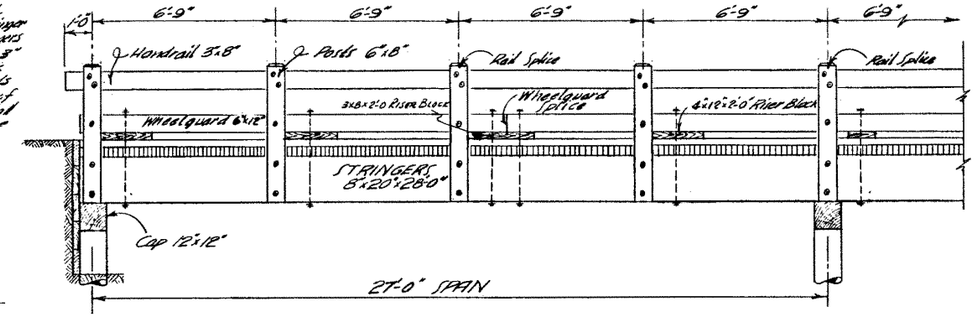
NOTE:
2"x4" Laminated Sub Floor SIE to 3"x6" Stringers to be sized to uniform depth at points of bearing. Fasten each stringer to caps with ¾"ø Drift bolts. Outside stringers to have butt joints and be spliced with 3" blocks 3'-0" long. Intermediate stringers to have lap joints. Holes for drift bolts shall be the smaller than diameter of drift bolt. Holes for machine bolts shall be the same diameter as machine bolt.

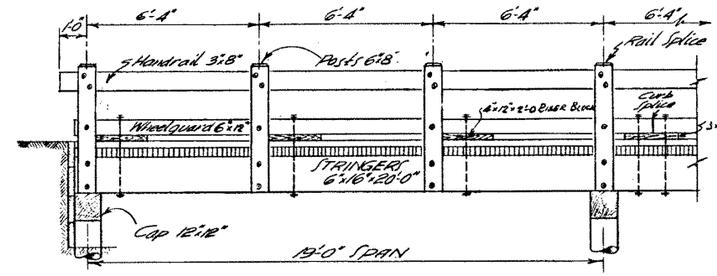


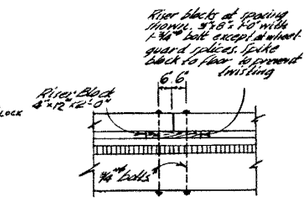
TYPICAL HALF SECTION OVER CAP ALSO SHOWING BRACING DETAILS

TYPICAL HALF SECTION AT MIDSPAN AND SHEATHING DETAILS

CROSS SECTION 27'-0 SPAN BRIDGES



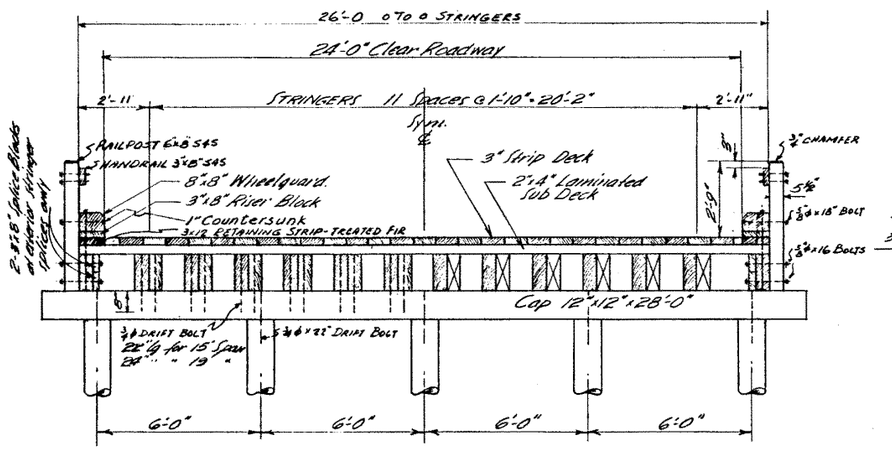




WHEELGUARD SPLICE

Railposts 6"x8" S4S, chamfered ⅜" at top.
Handrail 3"x8" S4S fastened to railposts with ½"ø Carriage bolts. cut washers, bolts ends.
Wheelguard 8"x8" S4S, jointed and fastened to outside stringer and to railpost with ¾" bolts at spacing shown.

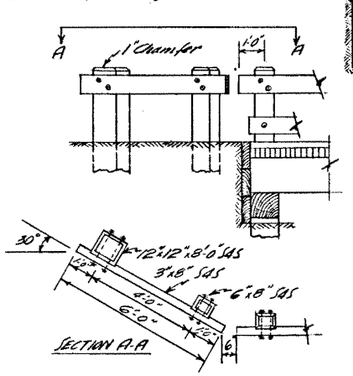
NOTE: Stringer spacing dimensions as shown (to edge of interior stringers) are for multiple spans only. For single span bridges these same dimensions are to be under to centre of stringers.



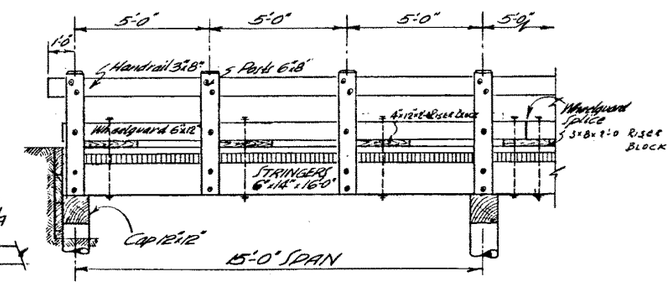
TYPICAL HALF SECTION OVER CAP

TYPICAL HALF SECTION AT MIDSPAN

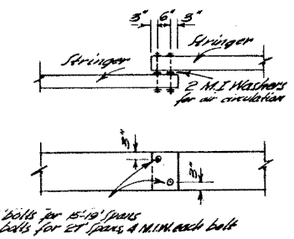
CROSS SECTION 15'-0" & 19'-0" SPAN BRIDGES



DETAIL AT END OF BRIDGE

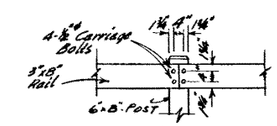


ELEVATION VIEWS



STRINGER LAP DETAIL

IMPORTANT FOR 20" DEEP STRINGER



HANDRAIL SPLICE

Scale ¾"=1'-0"

NOTE: LAMINATED FLOOR
No piece of 2"x4" Laminated flooring shall be spliced more than once, and no piece shall be less than 8 feet in length. Splices shall be made only over the centerline of stringers and shall be staggered so that no splice will occur along any stringer adjacent than in every fourth piece of flooring. At least every fourth piece of flooring shall be the full distance between handrail posts.
Laminated flooring to be toe nailed to alternate stringers with 20d nails, and nailed to adjacent strips with 20d nails at 18" centers, staggered. Use 60d nails to nail strip deck.
PAINTING: Railposts, Handrail and Wheelguard shall be given three coats of approved white paint.

SPECIFICATIONS. Permissible fibre stress 1400 p.s.i. Selected Fir
DEAD LOAD: Timber 50 lbs. per cu.ft.
LIVE LOAD: A.S.S.H.O. 1944. H-15 impact omitted.

SUPERSEDED
By S-519

PROVINCE of ALBERTA
DEPARTMENT of PUBLIC WORKS
BRIDGE BRANCH

1949 STANDARD TIMBER SPANS
24'-0 ROADWAY
SECONDARY HIGHWAY

SCALE: ¾"=1'-0" Except as Noted DATE: Mar. 16, 1949
DRWG. NO. S502 SHEET 2 of 4 sheets.

No	Date	DESCRIPTION
3		
2		
1		

REVISIONS

APPROVED by: L. G. Trimble BRIDGE ENGINEER
DATE: April 26, 1949

DESIGNED by: H.O. Jan. 18, 1949
DRAWN by: H.O. Jan. 24, 1949
CHECKED by: H.S.L. Apr. 26, 1949
TRACED by:

REVISED by: H.O. Mar. 16, 1949

AT & U - RECORDS CENTRE
T18016

S-502