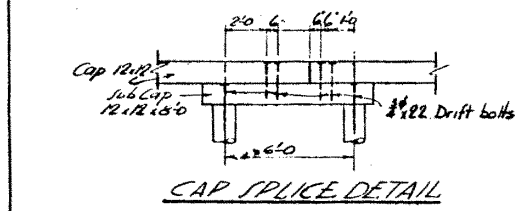


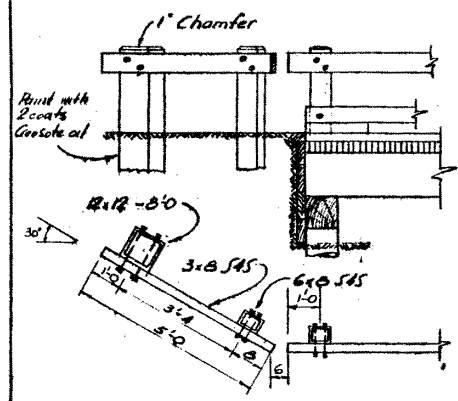
ELEVATION VIEWS

TYPICAL HALF SECTION OVER CAP AND SWAY BRACING DETAILS

TYPICAL HALF SECTION AT MIDSPAN AND SHEATHING DETAILS



CAP SPLICE DETAIL



DETAIL AT END OF BRIDGE WHERE IN-TACK WINGS ARE NOT CONSTRUCTED

NOTES

- LAMINATED FLOOR:** 2x4 laminated floor 5/16 to 3/8. No piece laminated flooring to be spliced more than once, and no piece shall be less than 8' in length. Splices shall be made only over centerline of stringers and shall be staggered so that no splice will occur along any stringer, offsetting them 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 to adjacent strips with 40d nails at 18" centers, staggered.
- STRINGERS:** to be sized to uniform depth at points of bearing. Fasten each stringer to caps with 3/4" drift bolts. Outside stringers to have bolt joints. Intermediate stringers to have lap joints.
- BOLT HOLES:** Holes for drift bolts and machine bolts to be same diameter as bolt.
- TREATMENT OF TIMBER IMPORTANT:** (a) Pike tops under caps shall be coated with three (3) applications of creosote oil and thoroughly covered with roofing pitch. (b) Exposed pike tops shall be treated as above, and in addition shall be covered with a sheet of 12 ga galvanized iron, of a size at least 4" greater in diameter than the pile, to be bent down, neatly trimmed, and fastened to the pile face with galvanized roofing nails. (c) Treated timber shall be carefully handled so as to avoid breaking of outer fibers or bruising or penetrating the surface. Tools to be used only on ends of timbers. (d) All cuts and abrasions in treated timber, shall, after careful trimming, be coated with two (2) applications of creosote oil, and be thoroughly covered with hot roofing pitch. (e) Coat top of stringers with one liberal coat of creosote oil before laying sub-deck. (f) Treated piles must not be dapped for sway bracing in the field. (g) Bolt holes bored after treatment shall be carefully treated with creosote oil. Any unfilled holes shall be sealed with creosoted plugs.
- STRIPDECK** shall be spruce or pine/SISIE and shall be laid heartside down, with tight joint for unseasoned material. Stripdeck planks shall be nailed with 6" spikes at 3" spacing, staggered along planks, with two spikes at end of plank. Stripdeck to be painted.
- PAINTING:** Railpost & Handrail shall receive 3 coats approved white paint.

- SPECIFICATIONS:
- Permissible fibre stress 1400 psi - Coast fir.
  - Dead Load: Timber 50 lbs. per cu. ft.
  - Stringer Spacing (A) AASHO H-15-44 Impact omitted. (B) AASHO H-20 S-16-44 " " "

- HARDWARE -

BOLTS			WASHERS	
Type	Size	Where Used	No. per bolt	Type
Carriage	1/2" x 9	Handrail (All spans)	2	M1
Machine	5/8" x 12	Stringer butt joint (16' x 20')	2	O.G.
"	5/8" x 14	Stringers thru posts (16' x 20')	2	O.G.
"	5/8" x 14	Stringer butt joint (28')	2	"
"	5/8" x 16	Stringers thru posts (28')	2	"
"	5/8" x 16	Sway bracing (All spans)	2	O.G.
"	5/8" x 18	Wheelguard to posts (All spans)	1	O.G.
"	5/8" x 20	Sway bracing (All spans)	2	O.G.
"	5/8" x 32	Stringers thru curbs (16')	2	"
"	5/8" x 34	Stringers thru curbs (20')	2	"
"	5/8" x 32	Stringers thru curbs (28')	2	"
Drift	3/4" x 22	Stringers to caps (16')		
"	3/4" x 22	Caps to piles (All spans)		
"	3/4" x 24	Stringers to caps (20')		
"	3/4" x 28	Stringers to caps (28')		

**SUPERSEDED** BY S-519

APPROVED BY: *L. H. Russell*  
BRIDGE ENGINEER  
DATE June 2/49

PROVINCE OF ALBERTA  
DEPARTMENT OF PUBLIC WORKS  
BRIDGE BRANCH  
**1949 STANDARD TIMBER SPAN**  
**30'0 ROADWAY**  
**MAIN HIGHWAY**

SCALE: 3/4" = 1'-0" Except as noted March 12 '49  
DRWG: S503 Sheet 3 of 5

DESIGNED BY: W.O. Jan 18, 1949  
 DRAWN BY: W.O. Jan 29, 1949  
 CHECKED BY: E.W.S. May 19, 1949  
 TRACED BY: H.J.R. May 23, 1949

ALTA - RECORDS CENTER  
 FILED