

TYPICAL SECTION
1/2" = 1'-0"

ELEVATION
1/2" = 1'-0"

Showing split-through type of abutment.
Note: If this type of abutment not specified, struts to be placed for backwall hills higher than 8'

CLEAR ROADWAY WIDTH	NUMBER AND SPACING OF STRINGERS [Edge bridge for multiple spans, also for angles]						NUMBER OF PILES PER CAP & SPACING LENGTH OF CAP				
	H-15			H-20			SKEW ANGLE				
	SPAN LENGTHS			SPAN LENGTHS			0°	5-15°	15-25°	25-35°	35-45°
20'	12 @ 1'-9"	12 @ 1'-9"	10 @ 2'-4"				4 @ 5'0"	4 @ 5'0"	5 @ 5'6"	5 @ 6'2"	6 @ 5'9"
24'	14 @ 1'-11 1/2"	14 @ 1'-11 1/2"	12 @ 2'-5 1/2"	17 @ 1'-7 1/2"	17 @ 1'-7 1/2"	13 @ 2'-1 1/2"	5 @ 5'0"	5 @ 5'0"	5 @ 5'6"	6 @ 5'10"	1 @ 5'8"
26'				18 @ 1'-7 1/2"	18 @ 1'-7 1/2"	14 @ 2'-1 1/2"	6 @ 5'0"	6 @ 5'0"	6 @ 5'6"	7 @ 5'4"	8 @ 5'4"
27'				19 @ 1'-7"	19 @ 1'-7"	15 @ 2'-0 1/2"	6 @ 5'0"	6 @ 5'0"	7 @ 5'0"	7 @ 5'6"	8 @ 5'5"
30'	18 @ 1'-10 1/2"	18 @ 1'-10 1/2"	15 @ 2'-2 1/2"	22 @ 1'-6"	22 @ 1'-6"	17 @ 1'-11 1/2"	7 @ 5'0"	7 @ 5'0"	7 @ 5'6"	8 @ 5'5"	9 @ 5'5"
44'				31 @ 1'-6 1/2"	31 @ 1'-6 1/2"	24 @ 1'-11 1/2"	9 @ 5'0"	9 @ 5'0"	10 @ 5'0"	10 @ 6'0"	12 @ 5'7"
50'				35 @ 1'-6 1/2"	35 @ 1'-6 1/2"	27 @ 1'-11 1/2"	11 @ 5'0"	11 @ 5'0"	12 @ 5'0"	12 @ 5'6"	14 @ 5'5"
56'				39 @ 1'-6 1/2"	39 @ 1'-6 1/2"	30 @ 1'-11 1/2"	12 @ 5'0"	12 @ 5'0"	13 @ 5'0"	14 @ 5'6"	16 @ 5'5"

GENERAL NOTES

DESIGN:

Loading - A.A.S.H.O. H15 & H20-44
Specification - A.A.S.H.O. - 1957

CONSTRUCTION:

LAMINATED FLOORING - 2x4 laminated floor 8x12 to 3x6. No piece of flooring to have more than four splices and no piece shall be less than 8' in length. Splices shall be made only over 4" of stringers, and shall be staggered so that splices will not occur along any one stringer oftener than in every fourth piece of flooring. Flooring to be fastened to alternate stringers with 20d nails and to adjacent pieces with 4d nails @ 18" centers, staggered.

STRINGERS - to be sized to uniform depth at points of bearing. Each stringer to be fastened to cap with 3/4" drift bolts. Outside stringers to have butt joints, interior stringers lap.

BOLT HOLES - holes for bolts and drift bolts to be same diameter as bolt.

Field Treatment of Timber

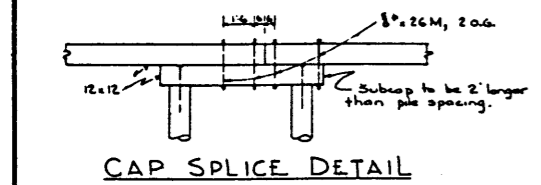
- (a) Pile tops under caps shall be coated with 3 applications of creosote oil and thoroughly covered with roofing pitch.
- (b) Exposed pile tops shall be treated as in (a), and in addition shall be covered with 12ga. galvanized sheet iron, of a size 4" greater in diameter than the pile. The iron shall be neatly trimmed bent down, and fastened to the pile with galvanized roofing nails.
- (c) 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 end of timbers.
- (d) 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.
- (e) Point top of stringers with one coat of creosote before laying subdeck.
- (f) Treated piles must not be dopped for sway bracing in the field.
- (g) Bolt holes bored after treatment shall be carefully treated with creosote. Any unfilled holes shall be sealed with creosoted plugs.

STRIPDECK

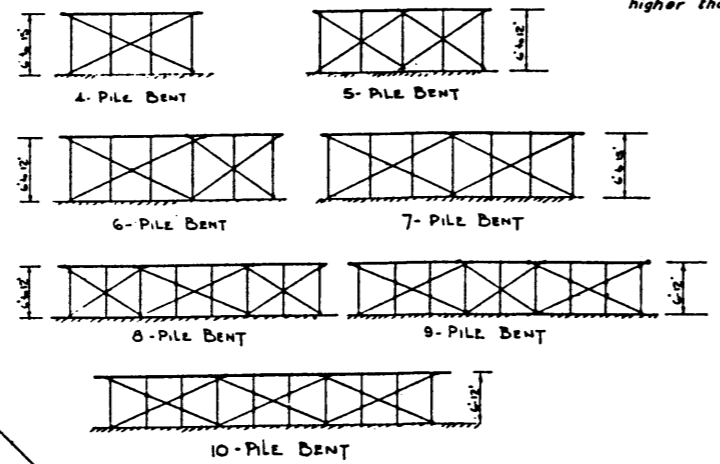
Shall be fir size, and shall be laid heartside down, with tight joints for unseasoned material. Planks to be spiked with 6" spikes @ 3' centers, staggered along the plank, with two spikes at end of plank. Stripdeck to be bevelled at end of bridge.

MATERIAL

Treated Piling - Piling shall be Douglas Fir and pressure creosoted treated in conformity with C.S.A. Spec. 080-C3.
Treated Timber - Timber shall be select structural grade Douglas Fir or Pacific Coast Hemlock pressure treated with creosote in conformity with C.S.A. Spec. 080-C2

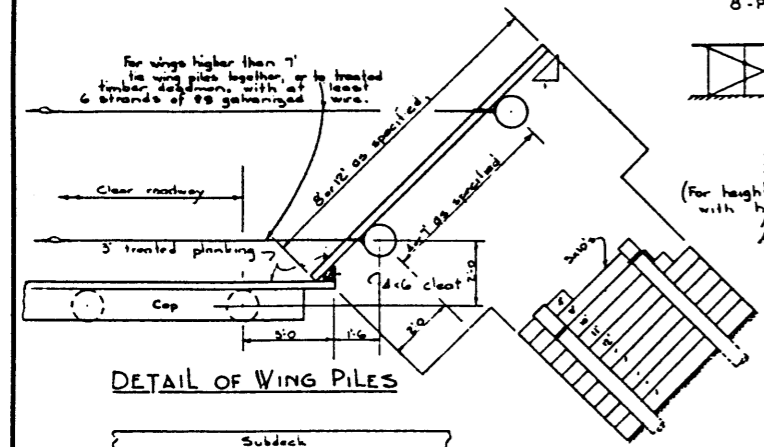


CAP SPLICE DETAIL

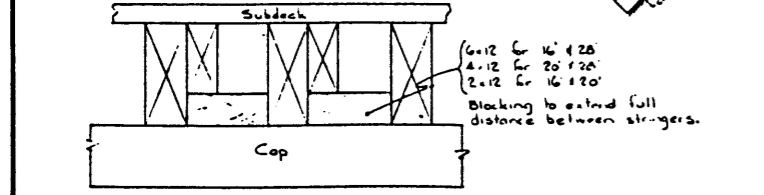


SWAY-BRACING DETAILS

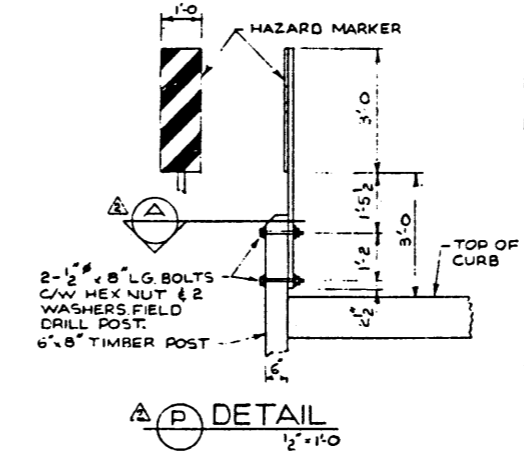
(For heights greater than shown, use two stories of diagonals with horizontal 3x10 or 8x12 between.)
Note Bolts shown by dots.
All Bolts 3/4" dia. with 2 O.B. Washers each Bolt



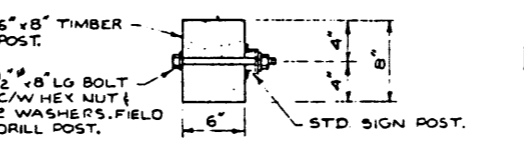
DETAIL OF WING PILES



BLOCKING FOR DISSIMILAR STRINGERS



DETAIL
1/2" = 1'-0"



SECTION
1/2" = 1'-0"



DELINEATOR DETAILS
4 REQ'D.

DETAILED BY: J.L.S.K. DATE: MARCH 15, 1951
 CHECKED BY: DATE:

NO.	DATE	DESCRIPTION	BY
1	5 OCT. 77	TIN CAP, GUARDRAIL AND DELINEATORS ADDED.	C.M.
2	DEC. 31/78	REDRAWN	J.W.

REVISIONS

1951
STANDARD TIMBER SPANS
ALL SPANS - ALL ROADWAYS

GOVERNMENT OF THE PROVINCE OF ALBERTA
DEPARTMENT OF PUBLIC WORKS
BRIDGE BRANCH, EDMONTON

FILE NO. _____ HWY. NO. _____
LOCATION _____ SCALE _____
STREAM _____ SHEET 1 OF 1

5-519-71