



TABLE 1 SOLID SAWN STRINGER SIZE REQUIREMENTS

STRINGER SPAN	TIMBER SPECIES - DOUGLAS FIR - LARCH STRUCTURAL GRADE - NO. 1		DESIGN LOADING IN POUNDS PER SQUARE FOOT	
	PEDESTRIAN LIVE LOAD	GROUND SNOW LOAD	PEDESTRIAN LIVE LOAD	GROUND SNOW LOAD
10'	3" X 10"	3" X 10"	85	120
15'	4" X 10"	4" X 12"	85	150
20'	4" X 16"	4" X 16"	85	200
25'	6" X 12"	6" X 14"	85	200
30'	6" X 16"	6" X 16"	85	200
35'	6" X 18"	6" X 20"	85	200
40'	6" X 20"	6" X 22"	85	200

ALL DIMENSIONS SHOWN ABOVE ARE NOMINAL (ROUGH SAWN).

THE MINIMUM STRINGER DEPTH FOR BRIDGES WITH PEDESTRIAN RAILS IS 15". BRIDGES WITH STRINGER DEPTHS LESS THAN 15" SHALL HAVE CURBS ONLY.

THE MINIMUM NUMBER OF STRINGERS IS 3.

NOTES:

1. FASTEN DECK PLANKS TO STRINGERS WITH TWO ROWS 5/16" X 7" RING SHANK NAILS PER PLANK AT EACH STRINGER. ALTERNATE CENTERS.
2. FASTEN RUNNING PLANKS TO DECK WITH 40d (5" RING SHANK) NAILS AT 24" SPACING. ALTERNATE CENTERS WITH TWO AT EACH END.
3. SPLICE RAILS AT POSTS. RAILS SHALL BE CONTINUOUS FOR TWO POST SPACES. DO NOT LOCATE MORE THAN ONE RAIL SPLICE AT ANY ONE BRIDGE RAIL POST.

TYPICAL DECK SECTION WITH RAILING

SCALE: 1" = 1'-0"

\*MINIMUM NUMBER OF STRINGERS IS 3.

RA850B2

DO NOT SCALE - REDUCED - DRAWING

SOLID SAWN TIMBER STRINGERS  
10 FT - 40 FT LONG  
TRAIL BRIDGE

REV.	DESCRIPTION	MOE	DATE
Δ	REVISED TO R-6 STRUCTURES CAD STANDARDS		5/24/05

U.S. DEPARTMENT OF AGRICULTURE  
FOREST SERVICE  
THE PACIFIC NORTHWEST REGION (R-6)

Forest Bridge No.:  
Location:  
Loading Length:  
Width:

Designed: L.McNEAL  
Checked:  
Approved: /s/ MERVIN O. ERIKSSON  
REGIONAL BRIDGE ENGINEER  
Date: 03/01/2004

APPROVED:

FOREST ENGINEER

DATE

DWG NO.

SHEET 2 of 4 DESIGN AID RA850