



MAINE FOREST SERVICE TEMPORARY BRIDGE COST-SHARE PROGRAM BRIDGE SPECIFICATIONS

To be eligible for reimbursement through the Maine Forest Service Temporary Bridge Cost Share program, bridges must meet the minimum specifications in the table below:

Minimum Bridge Specs	
Species	Hardwood or hemlock (no popple); no rot or seams
# of panels per bridge	3
Panel length	16-20 ft.
Panel width	4 ft.
Timber beams	Minimum dimensions of 6 x 8in.
Steel rods	Minimum gauge of 1 in.

Suggested: Below is a materials list and specifications for a suggested wooden bridge design:

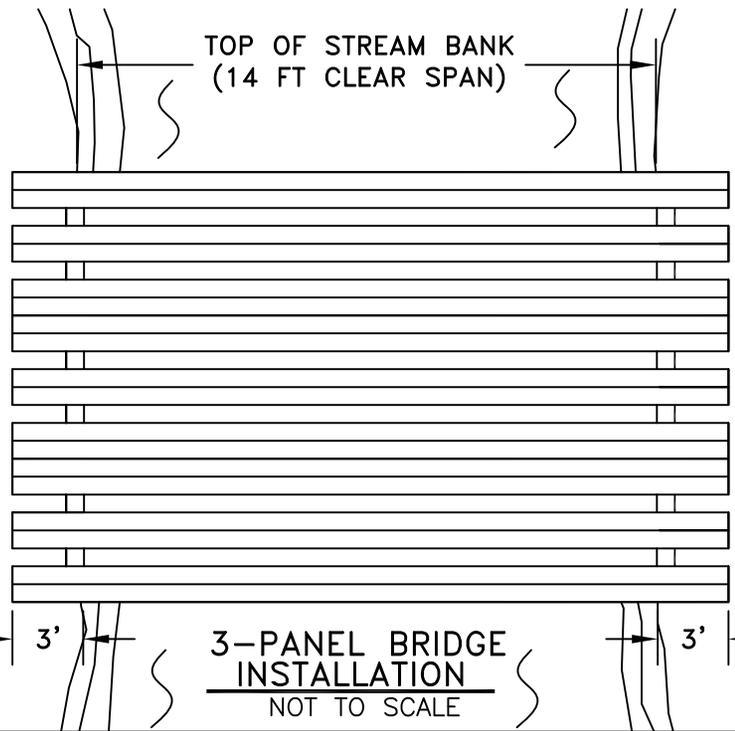
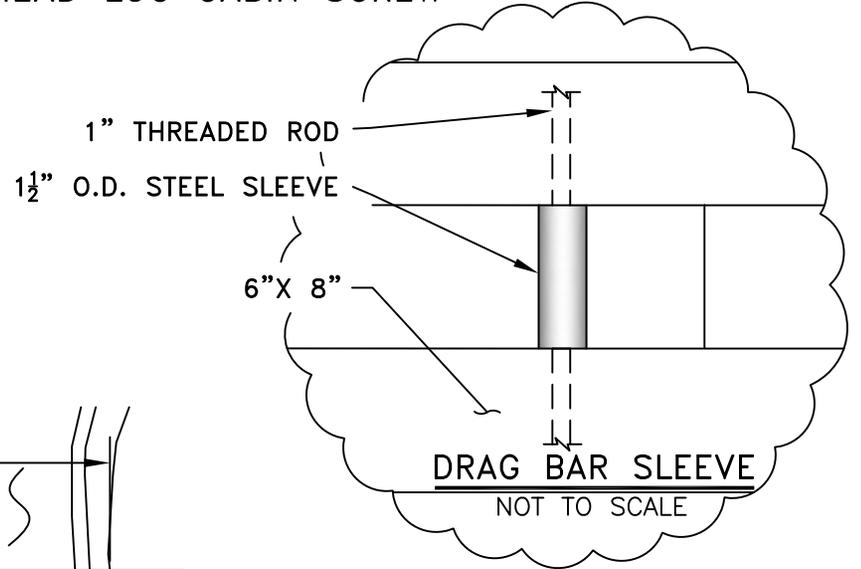
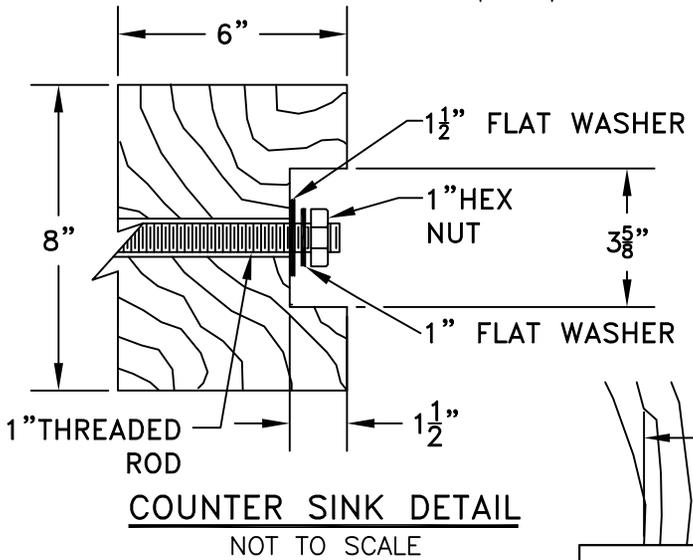
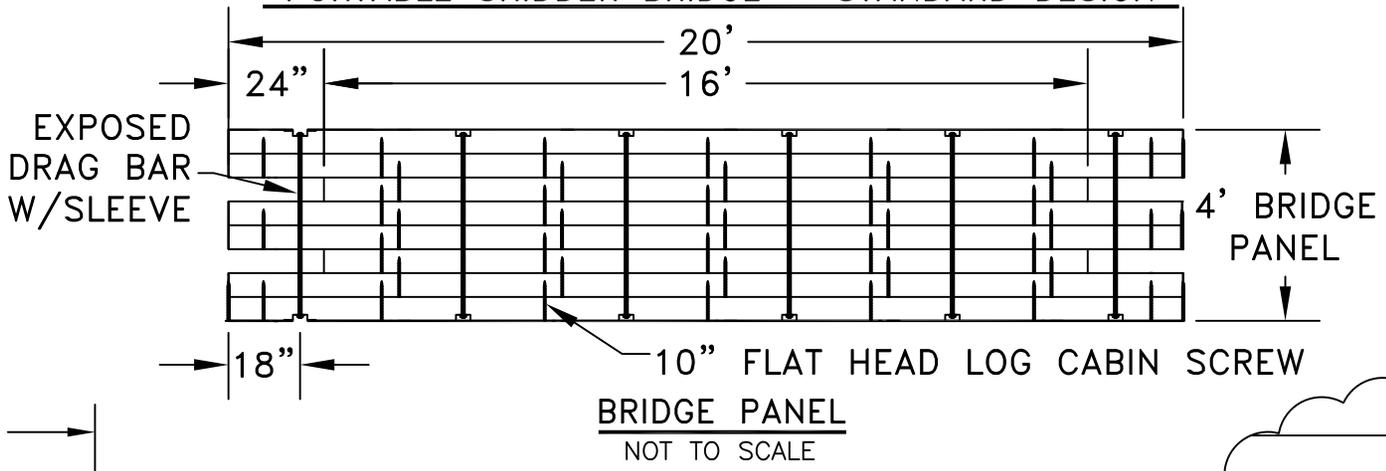
Three-Panel, 20' Wood Portable Skidder Bridge (Standard Design):

Materials and Specifications for (One) Three-Panel Bridge

- ▶ Hardwood or softwood beams
 - (18) 6" x 8" x 20'
 - (6) 6" x 8" x 16'
- ▶ (18) Threaded Rod 1" – 8 (coarse thread) x 4', cut and thread checked. (A-307 Rod)
- ▶ (36) USS Flat Washers, 1½"
- ▶ (36) USS Flat Washers, 1"
- ▶ (36) Hex Nuts, 1" – 8 GR 5
- ▶ (123) Flat-Head Log Cabin Screws
- ▶ (12) Steel Sleeves: Extra Strong Steel Pipe w/nominal diameter of 1½"; outside diameter = 1.9"; inside diameter = 1.5"; wall thickness = .200"; length = 6"

A 'heavy duty' design consisting of larger timbers is also available from MFS.

PORTABLE SKIDDER BRIDGE – STANDARD DESIGN



Standard Bridge Design

Maximum Load Rating*
Up to a 32,000 pound skidder under full load

Up to a 50,000 pound forwarder (load included)
ATTENTION! This bridge is not designed for timber harvesters

*Based on a 14-foot clear span in new condition and using #1 grade Eastern Hemlock (Design meets H-15 "Standard AASHTO Equivalents of Forestry Vehicles by Span")

THESE PLANS ARE INTENDED FOR INFORMATIONAL PURPOSES AND HAVE NOT BEEN CERTIFIED BY A PROFESSIONAL ENGINEER (P.E.). IT IS RECOMMENDED THAT THE DESIGN BE CERTIFIED BY A P.E. PRIOR TO CONSTRUCTION. BRIDGE LIFE WILL BE REDUCED WITH IMPROPER MAINTENANCE, HEAVY USE OR IF STORED IN A MANNER THAT ENCOURAGES ROT.

AGENCY OF NATURAL RESOURCES
DEPT. OF FORESTS, PARKS AND RECREATION
FOREST WATERSHED PROGRAM
REVISED 12-04-09