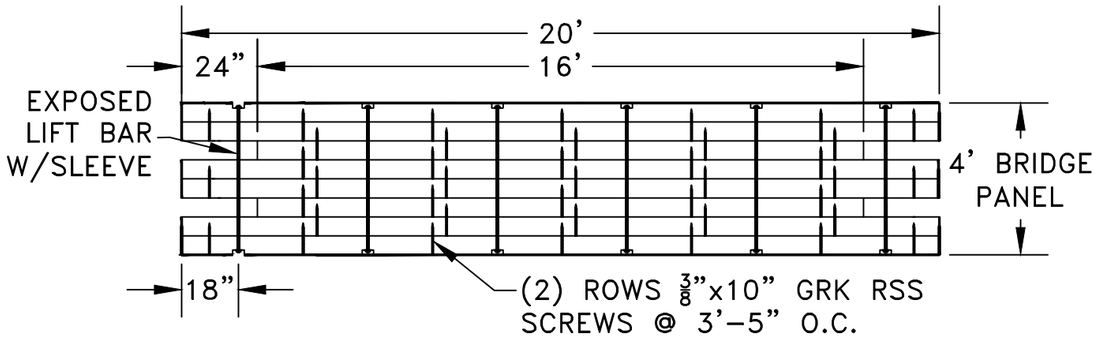
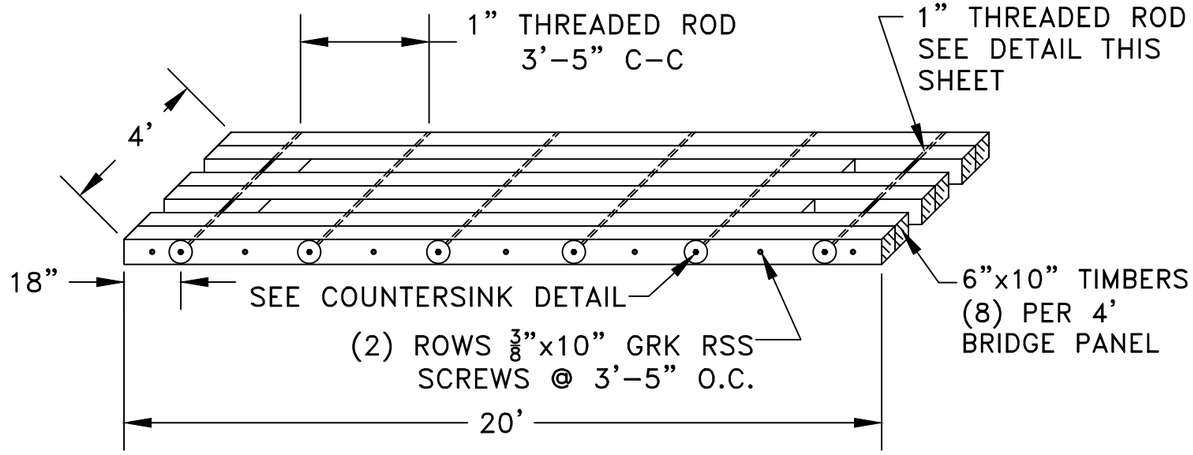
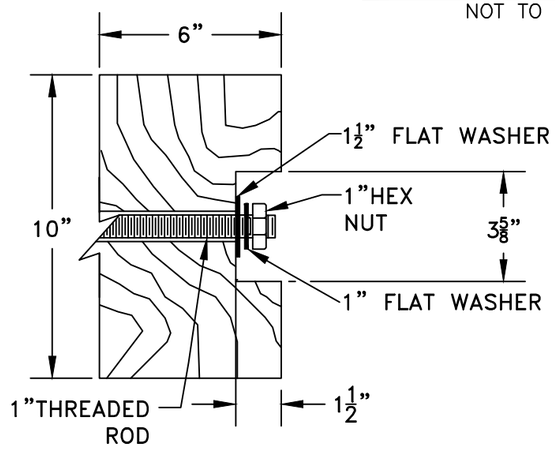
PORTABLE BOLT–LAMINATED TIMBER BRIDGE – STANDARD DESIGN



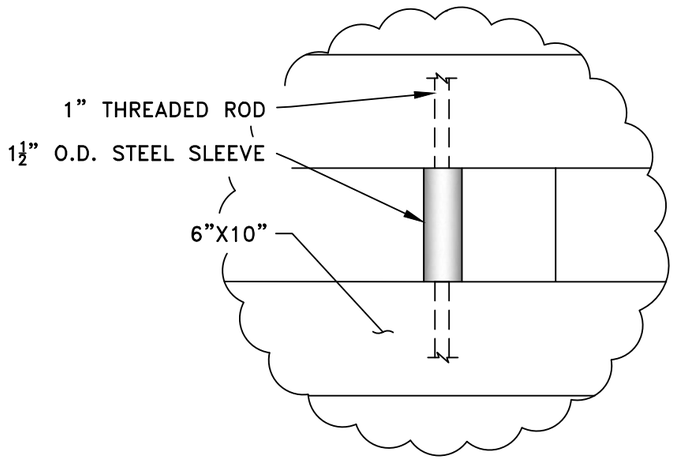
BRIDGE PANEL TOP VIEW
NOT TO SCALE



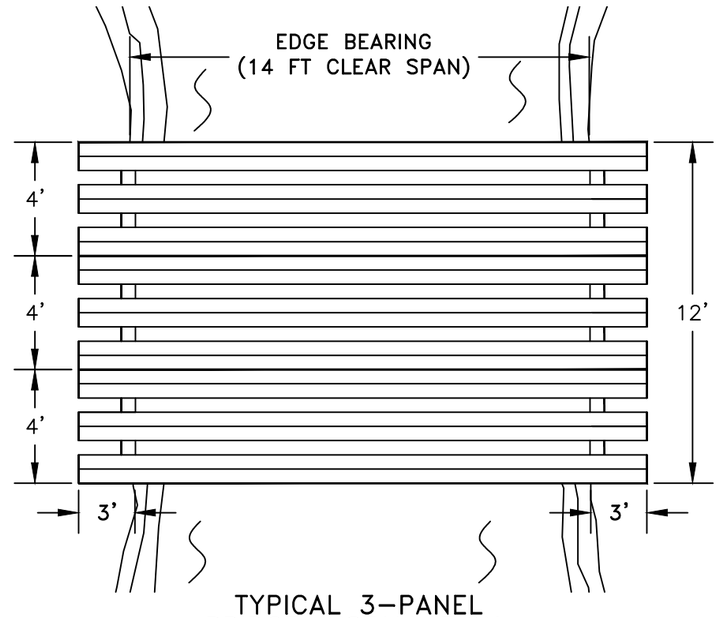
BRIDGE PANEL ISOMETRIC VIEW
NOT TO SCALE



COUNTER SINK DETAIL
NOT TO SCALE



LIFT BAR SLEEVE
NOT TO SCALE



TYPICAL 3–PANEL BRIDGE INSTALLATION
NOT TO SCALE

GENERAL NOTES:

1 ALL WOOD FRAMING WORK SHALL BE IN ACCORDANCE WITH STATE CODE WHICH INCORPORATES THE NATIONAL DESIGN SPECIFICATIONS OF THE NATIONAL FOREST PRODUCTS ASSOC. ALL TIMBERS SHALL BE AGENCY GRADE STAMPED OF THE SPECIES AND GRADE INDICATED HEREIN.

2. ALL TIMBER MATERIAL SHALL BE EASTERN HEMLOCK NO. 2. NO MIXTURE OF LOWER GRADES WITHIN THE SPECIES WILL BE ALLOWED. DIMENSIONS ARE FULL SAWN.

3 ALL STEEL CONNECTION MATERIAL (BOLTS, NUTS, WASHERS, SCREWS) SHALL BE HOT–DIPPED GALVANIZED OR OTHERWISE COATED FOR EXTERIOR USE.

4 NOTCHING AND HOLE DRILLING OF TIMBERS BEYOND WHAT IS SHOWN ON THIS PLAN SHALL NOT BE PERMITTED WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

5. PORTABLE SKIDDER BRIDGE PANELS SHALL BE INSPECTED ANNUALLY BY A QUALIFIED INDIVIDUAL FOR STRUCTURAL DEFECTS, GENERAL WEAR AND TEAR, AND EVIDENCE OF DECAY. PANELS THAT ARE NOT IN GOOD OR LIKE–NEW CONDITION SHALL BE DISCONTINUED FROM USE. BRIDGE PANELS SHALL BE STORED IN A DRY LOCATION, NOT IN CONTACT WITH THE GROUND. PANEL LIFE WILL BE REDUCED WITH IMPROPER MAINTENANCE, HEAVY USE OR IF STORED IN A MANNER THAT ENCOURAGES ROT.

6. BEARING SILLS TO SUPPORT PORTABLE BRIDGE PANELS ARE OUTSIDE THE SCOPE OF THIS CERTIFICATION. DESIGN ASSUMES THAT BRIDGE PANELS WILL BE SUPPORTED ON SOUND LEVEL BEARING SILLS OR UNIFORM WELL COMPACTED BEARING STRATA THAT DOES NOT IMPART UNDUE CONCENTRATED BEARING STRESSES OR DAMAGE TO THE BRIDGE PANELS.

7. THIS PLAN IS ADAPTED FROM A PLAN ORIGINALLY DESIGNED, DRAFTED AND CREATED BY THE STATE OF VERMONT AGENCY OF NATURAL RESOURCES, DEPARTMENT OF FORESTS, PARKS AND RECREATION, FOREST WATERSHED PROGRAM, LAST REVISED 12–04–09.

Standard Bridge Design Maximum Load Rating*

Up to a 32,000 pound skidder under full load

Other forestry vehicles with operating weight less than or equal to standard AASHTO equivalent of H–10 loading.

ATTENTION! This bridge is not designed for Timber Harvesters

*Based on a 14–foot clear span in new condition and using #2 grade Eastern Hemlock

STATE OF VERMONT
KRISTIN F. McCLURE
NO. 58806
STRUCTURAL
LICENSED
PROFESSIONAL ENGINEER

11/07/2017

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