PORTABLE BOLT-LAMINATED TIMBER BRIDGE — STANDARD DESIGN

1" THREADED ROD
3'-5" C-C

6"x10" TIMBERS
(8) PER 4' BRIDGE PANEL

1" THREADED ROD
SEE DETAIL THIS SHEET

(2) ROWS 3"x10" GRK RSS
SCREWS @ 3'-5" O.C.

BRIDGE PANEL TOP VIEW
NOT TO SCALE

18"
24"
20'
16'

4' BRIDGE PANEL

(2) ROWS 3"x10" GRK RSS
SCREWS @ 3'-5" O.C.

BRIDGE PANEL ISOMETRIC VIEW
NOT TO SCALE

18"

1" THREADED ROD

1" O.D. STEEL SLEEVE

6"x10"

1½ FLAT WASHER

1½ HEX NUT

1½ THREAD WASHER

COUNTER SINK DETAIL
NOT TO SCALE

LIFT BAR SLEEVE
NOT TO SCALE

EDGE BEARING
(14 FT CLEAR SPAN)

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 ASSOCIATION. ALL TIMBERS SHALL BE
AGENCY STAMPED OR LABELLED PER THE SPECIES AND GRADE INDICATED HEREIN.

2. ALL TIMBER MATERIAL SHALL BE EASTERN HARDWOOD. 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-DIP GALVANIZED OR
OTHERWISE COATED FOR EXTERIOR USE.

4. NOTHING AND HOE DRILLING OF TIMBERS BEYOND WHAT IS SHOWN ON THIS PLAN SHALL NOT BE
PERMITTED WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

5. PORTABLE SHOOKER 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 UNIQUE CONCENTRATED BEARING STRESS ES 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 12-04-99.

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

11/07/2017
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