



## Invitation to Bid

To: Interested Parties  
From: Jacquelyn Reese, Association Administrator  
518-622-9820 [x121/Jmr573@cornell.edu](mailto:x121/Jmr573@cornell.edu)  
Date: June 20, 2024  
Re: Siuslaw Model Forest Bridge Installation

Cornell Cooperative Extension of Columbia and Greene Counties are the owners and managers of the Siuslaw Model Forest (SMF), a 142-acre NYC watershed demonstration and recreation site.

The Siuslaw Model Forest, 6055 Route 23, Acra, NY, is split roughly in half by the Sawmill Creek. The South-Southeastern portion of the property has two access points along NY 23. There is a stewardship entrance formally used as a log landing as well as a main entrance to the parking lot and donor residence. The North-Northwestern acreage is not accessible by road, RoW or CCE-owned property. There are stable trails, demonstrations, and woodland stewardship projects throughout the entire property that staff, visitors and vehicles must cross the Sawmill Creek to access.

A sizeable stretch of the Sawmill Creek runs through Siuslaw but is largely inaccessible. It is mostly flanked by steep banks with fluctuating stability due to high energy flows. The one relatively stable area for crossing was established as a ford connecting the main forest road, but is unpredictable and is not a feasible option for pedestrians.

To provide both vehicular and pedestrian access across Sawmill Creek, a 50-foot, steel frame [hinged portable bridge](#) will be installed to span the ford crossing. The structure will be a permanent demonstration of a temporary bridge used during logging operations.

This project involves the permanent installation of the bridge (weighs 36,000 pounds), which is currently stored at Cannonsville Lumber. Plans are to bury large stackable rock as footers across the road on either side of the stream to set the bridge on. Installation of the bridge will require sourcing and placing (excavate and bury) the rock base footers and setting, leveling and securing the bridge.

This project would occur between July 1 and September 30, 2024 to comply with NYS DEC timing restrictions for work in a trout stream. A stream disturbance permit application has been submitted to NYS DEC and compliance with DEC stream crossing rules and regulations apply.

Bids are invited for:

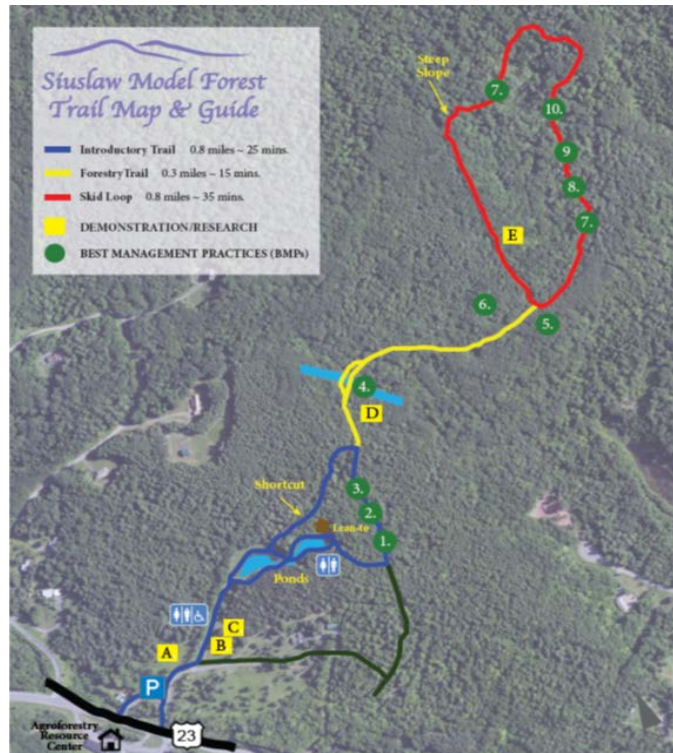
1. **Transportation** of the bridge from Cannonsville Lumber (199 Old Route 10. Deposit, NY 13754) to the Agroforestry Resource Center and Siuslaw Model Forest (6055 Route 23, Acra, NY, 12405).
2. **Installation** of the bridge (described above)
3. Both **Transportation and Installation** of the bridge.

\* If the bridge is transported separately the bridge may need to be hauled approximately 0.5 miles over the existing forest road to reach the crossing.

To qualify for bidding, interested parties must schedule a meeting and/or showing of the work site by July 1 and submit bids by July 8. Please contact Samantha Goff to schedule a bid showing by email or phone at [sag334@cornell.edu](mailto:sag334@cornell.edu) 518-622-9820 x100.

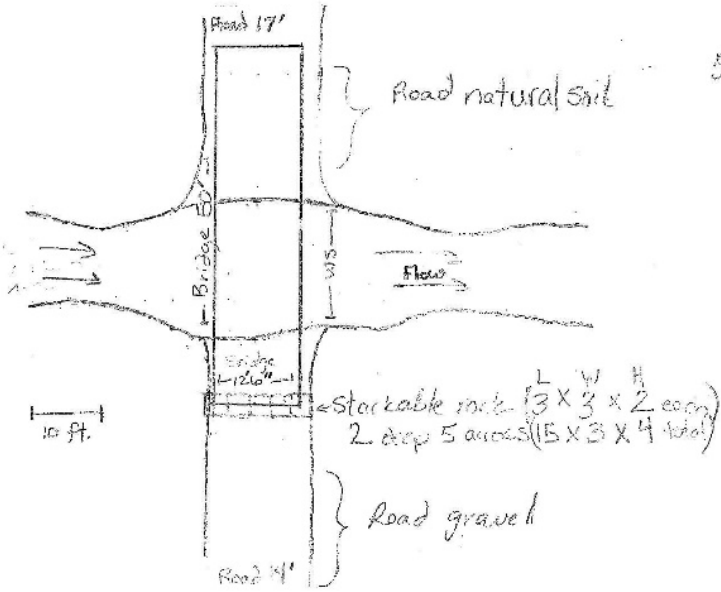
*Note: Please see the attached sample contract outlining insurance requirements.*

**Siuslaw Model Forest map (stream crossing site located at #4):**



**Bridge Install approach and crossing**





50' X 126" Bridge on rock footers

Excavate and fill with stackable rock (2 deep 5 across)

6.67 cubic yards each side 13.34 cubic yards total

coverage (15x3) 45 square feet each side 90ft<sup>2</sup> total

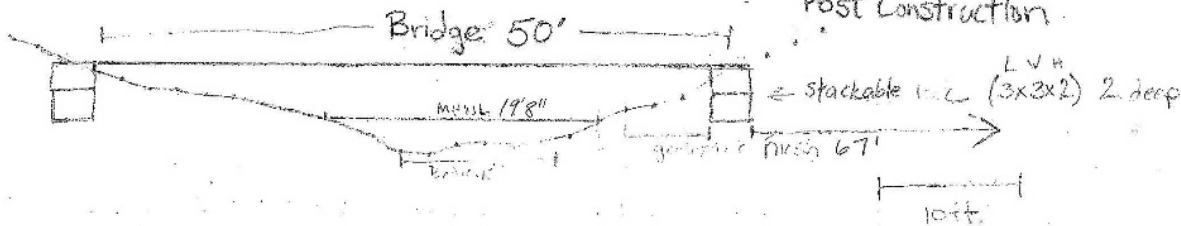
Stackable rock  $\begin{matrix} L & W & H \\ 3 & 3 & 2 \text{ each} \end{matrix}$   
 2 deep 5 across (15 X 3 X 4 total)

Road gravel

Pre-Construction



Post Construction



Siuslaw Model Forest Proposed Bridge  
 Cornell Cooperative Extension Columbia Greene



Prepared by Audrey Kropp  
 Climate Change & Environment and Natural Resources  
 Cornell Cooperative Extension | Columbia and Greene Counties  
 6055 Route 23 Acra, NY 12405  
 ak963@cornell.edu  
 518-622-9820 X 102



## ADM WELDING & FABRICATION

Building bridges to meet your needs

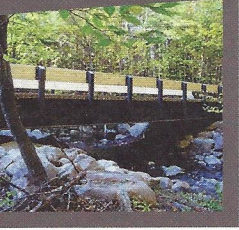
Office: (814) 723-7227

Fax: (814) 723-7326

admwelding@verizon.net

37 Broadhead Street

Warren, PA 16365



### BRIDGE HANDLING PROCEDURES

#### PRIOR TO INSTALLATION AND OPENING

1. Provide a level and uniform bearing surface at each end of the bridge.
2. Inspect the area between the double hinge plates to ensure it is free of mud or debris. Any foreign matter located between these plates will prevent the bridge from opening fully.
3. Ensure lower hinge pins are removed.

#### OPENING THE BRIDGE

1. Ensure the area to be occupied by the section being opened is completely clear of any obstructions, as well as personnel.
2. Place rigging around exterior stringer/towbar on the folded half (at either end), using a basket hitch (see attached photo). Nylon straps are ideal, although chains will also work. Approximately 3' of strap/chain above the stringer is required to maintain clearance between the machine and the guide rail as the bridge is folded open.
3. Swing the folded half open in a smooth, controlled manner. The rigging should slide/rotate as the section is unfolded.

#### COMPLETING THE INSTALLATION

1. Once unfolded, install the lower hinge pins. Install the pins starting on the side of the crossing opposite the equipment, and work back towards the machine. If the bridge is not sitting perfectly level, one section (half) may need to be raised/lowered to allow the hinges to align properly. This is accomplished by lifting (via rigging around the towbar) either an exterior (guide rail side) corner of the bridge, or the interior corner of the double hinge half. The lifting point is dependent upon the direction of movement required to effect proper hinge alignment.
2. Install center panels using the "T-handles" provided. The panels are interchangeable with the exception of the (two) panels located at each end of the bridge. These panels are easily identified by the centering pins (which are not present on any of the other panels).



# ADM Welding & Fabrication, LLC

## Portable Bridges

### Installation

# Hinged Bridges

Installation typically requires one hour with one laborer plus equipment/operators.

# “Skidding” Bridge into Position using Excavator

Bridge can also be set with a crane.





# Opening Bridge



# Bridge in Open Position Ready to Install Pins & Center Panels





# Installing Center Panels





# Installing Aggregate Ramp Transitions to new Deck Elevation



# Completed Installation



# Hybrid Bridges

Installation typically requires two hours with two laborers plus equipment/operators.



# First Section In Place, Awaiting Second Section



# Setting Second Section





# Installing Center Panels following Bolt-Up





# Completed Installation





## SKIDDING THE BRIDGE

The bridge skids/drags best when it is in the open position. Regardless of whether the bridge is being skidded folded or open, care should be taken to ensure hinges and diaphragms are not damaged during the process.

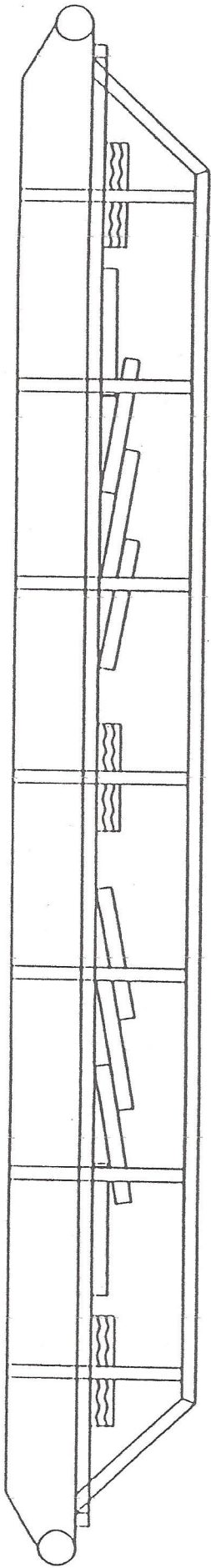
## REMOVAL

1. Remove mud/debris from deck surface.
2. Place tires on double hinge half in front of vertical guard post(s) at each end of the bridge for shock absorption.
3. Remove center panels and lay them out in the CENTER of the double hinge half. The end panels with the centering pins should be removed first and placed immediately "inboard" of the tires, with subsequent panels placed partially overlapping the previous panel (see attached diagram and photo). If the panels are too close to the guide rail or too close to the hinge, the bridge will not fold shut properly and damage to center panel, hinges, and decking may result.
4. Remove lower hinge pins and place in adjacent ring for storage during transport to prevent damage/loss.
5. Fold single hinge side shut by rigging bridge in the same manner as used to open the bridge.
6. Ensure the center panels are not contacting the deck surface or guide rail of the folded half. If they are, re-open the bridge and reposition the center panels to provide the required clearance, then re-fold the bridge.

## RIGGING LOCATION FOR FOLDING BRIDGE OPEN/CLOSED



Center Panel Layout Schematic









**1. Indemnification and Contractor's Liability**

Additional Parties (AP): \_\_\_\_\_

Contractor hereby assumes the entire responsibility and liability for all Work, supervision, labor and materials provided, whether or not erected in place, and for all plant, scaffolding, tools, equipment, supplies and other things provided by Contractor until final acceptance of the entirety of the Work by Owner. In the event of any loss, damage or destruction thereof from any cause, Contractor shall be liable therefor, and shall repair, rebuild and make good said loss, damage or destruction at Contractor's cost, subject only to the extent that any net proceeds are payable under any builder's risk property insurance that may be maintained by Owner or Contractor, if any.

To the fullest extent permitted by law, the Contractor shall indemnify, defend, and hold harmless the Owner, AP and their respective officers, directors, employees and agents ("Indemnified Parties") from and against all claims, damages, demands, losses, expenses, fines, causes of action, suits or other liabilities, (including all costs reasonable attorneys' fees, consequential damages, and punitive damages), arising out of or resulting from, or alleged to arise out of or arise from, the performance of Contractor's Work under the Agreement, whether such claim, damage, demand, loss or expense is attributable to bodily injury, personal injury, sickness, disease or death, or injury to or destruction of tangible property, including the loss of use resulting therefrom; but only to the extent attributable to the negligence of the Contractor, its Subcontractors or any entity for which it is legally responsible or vicariously liable: regardless of whether the claim is presented by the Contractor's employee, his/her spouse, legal or domestic partner under applicable state law and/or dependents of the Contractor's employee. Such indemnity obligation shall not be in derogation or limitation of any other obligation or liability of the Contractor or the rights of the Owner contained in this contract or otherwise. This indemnification shall not be limited in any way by any limitation on the amount or type of damages, compensation or benefits payable by or for the Contractor under any workers' compensation acts, disability benefits acts or other employee benefits acts and includes any loss or injury suffered by an employee of the Contractor, Contractor's Subcontractor or any others who claim to have directly or derivatively sustained injury or damages due to the injury sustained by the Contractor's employee. This indemnification shall be in addition to any indemnity liability imposed by the Contract Documents, and shall survive the completion of the Work or the termination of the contract.

**2. Contractor's Insurance**

**Prior** to commencing the Work, Contractor shall procure, and thereafter maintain, at its own expense, until final acceptance of the Work or later as required by the terms of the agreement, insurance coverage required by the Contract Documents and this contract. At a minimum, the types of insurance and minimum policy limits specified shall be maintained in a form and from insurers acceptable to Owner as set forth below. All insurers shall have at least an A- (excellent) rating by A.M. Best and shall have a Best's Financial Size Category of not less than VIII, unless otherwise agreed to by the Owner. Said Insurers shall be qualified to do business and issue the requisite line of insurance in the State of New York. This insurance will provide a defense and indemnify the Owner, but only to the extent attributable to the negligence of the Contractor, its Sub-Contractors or any entity for which it is legally responsible or vicariously liable.

Proof of this insurance shall be provided to and approved by the Owner and its representative P. W. Wood & Son, Inc. **before** the Work commences via **ACORD 25 Certificate of Insurance form with the ACORD 855 NY attached**, as set forth below. To the extent that the Contractor subcontracts with any other entity or individual to perform all or part of the Contractor's Work, the Contractor shall require the other Sub-Contractors, prior to the commencement of the Work, to furnish evidence of equivalent insurance coverage that includes in all respects the same terms and conditions as set forth herein. In no event shall the failure to provide this proof, prior to the commencement of the Work, be deemed a waiver by the Owner of Contractor's insurance obligations set forth herein. The Certificate(s) shall provide for Fifteen (15) days' advance notice to owner of the cancellation or any change in coverage.

In the event that the insurance company(ies) issuing the policy(ies) required by this Agreement deny coverage to the Owner, Contractor or Sub-Contractor will, upon demand by the Owner, defend and indemnify the Owner at the Contractor's or Sub- Contractor's expense.

- A) The insurance required herein shall be written for not less than the following minimum amounts or greater if required by law, except that if Contractor procures any policy limits greater than the amounts required herein, then the higher limits shall apply as though stated and required herein:

**Workers' Compensation & Employers' Liability and New York State Disability Benefits Coverage** – Statutory coverage complying with the law of New York State with Employers' Liability limits of not less than \$100,000 Each Accident and \$100,000 Each Employee for Disease and \$500,000 Policy Limit for Disease, or the minimum level required by the Contractor's Excess Umbrella Liability insurance company, whichever is greater.

**Comprehensive Automobile Liability:**

(Bodily, Injury and Property damage insurance covering all automobiles, trucks, tractors, trailers, motorcycles or other automotive equipment whether owned or rented by the Contractor (including, but not limited to, all Owned Autos, Hired Autos and Non-Owner Autos):

- a) Liability Limit: each accident           \$1,000,000

**Comprehensive General Liability(CGL):**

(Written on an occurrence basis with coverage issued to and covering the liability of the Contractor and each Sub-contractor for all the work and operations relating thereto and all obligations assumed by Contractor, under this Contract, in an amount which shall not be less than the following limits):

- a) Bodily Injury and Property Damage  
General Aggregate           \$2,000,000
- b) Products and Completed  
Operations Aggregate       \$2,000,000
- c) Each Occurrence           \$1,000,000
- d) Personal and Advertising Injury   \$1,000,000

Coverage to Include:

- 1) Premises Operations – issued to and including coverage for Bodily injury and property damage due to losses caused by explosion, collapse and underground.
- 2) Products & Completed Operations – issued to and including coverage for claims that may arise after the work has been completed and he has vacated the premises.
- 3) Contractual Liability – issued to and covering liability for damages imposed under this Contract upon each sub-contractor directly or indirectly affecting operations under this Contract or used for services thereof.
- e) General Aggregate shall apply separately to each project and location, per form CG 2503 (3/97) or similar form.
- f) CGL coverage shall be written on ISO Occurrence form CG00 01 or a substitute form providing equivalent coverage (including the tort liability of another assumed in a business contract).
- g) Owner and all other parties as shall be required by Owner, shall be included as an additional insured on ISO Additional Insured Endorsements CG 20 10 and CG 20 37 or an equivalent coverage to the additional insured. It shall apply as primary insurance on a non-contributing basis before any other insurance or self-insurance, including any deductible, maintained by or provided to, the additional insured. Attach copy of the additional insured endorsement to the Certificate of Insurance. In addition, the Contractor's Insurer agrees to waive any rights of subrogation against either the Owner or Architect or their Insurance Company.
- h) There shall be no endorsement or modification of Contractor's CGL policy arising from pollution, explosion, collapse, underground property damage of work performed by Contractor.
- i) There shall be no endorsement or modification of Contractor's CGL policy reducing or eliminating coverage from New York Labor Laws; including Sections 200, 240 or 241.



