

FOREST PRESERVE DETAILED PROJECT WORK PLAN

**Fiscal Year 2024
Project # CO-WP-355**

<u>Region</u> 3	<u>Project Title</u> Kelly Hollow Bridge Replacement
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<u>Project Type</u>	<u>Town(s)</u>	<u>County</u>	<u>Management Unit</u>
Expansion of Existing Structure/Improvement	Hardenburg	Ulster	Balsam Lake Wild Forest

Description of Desired Condition(s) for Project

The Kelly Hollow Loop trail in the Balsam Lake Wild Forest is a popular destination for hikers, bikers, hunters, anglers and cross-country skiers. A bridge abutment is beginning to fail under a bridge along the Kelly Hollow Short Loop trail approximately 0.5 miles from the Kelly Hollow trailhead. The bridge spans the outlet of a beaver pond and is currently in need of complete replacement. The desired condition for this project is derived from the Catskill Park State Land Master Plan (CPSLMP) management guidelines for wild forest and the public use and management objectives outlined in the 1989 Balsam Lake Wild Forest Unit Management Plan (UMP). The bridge replacement will improve visitor safety and experiential conditions along the trail and bring this section of trail into alignment with desired conditions.

The new bridge will provide recreationists with a safe stream crossing and reduce the potential for adverse environmental impacts that could result from people attempting to cross in multiple locations in the absence of a bridge. Design parameters for this project will be consistent with DEC design standards for bridges in wild forest.

Description of Project Specifications

This project will be completed by DEC Operations staff. The phases of the project will consist of

- 1) Partial prefabrication of the bridge at the DEC maintenance shop to minimize on-site construction,
- 2) Forming and pouring two small concrete sills directly on trail surface,
- 3) Demolition and removal of old bridge structure,
- 4) Transportation of new bridge materials to Kelly Hollow Trailhead,
- 5) I-beam installation on new sills,
- 6) Installation of the new bridge structure, decking and railings.

The current bridge is 20 feet long by 5 feet wide. The new replacement bridge will be installed in the same location. It should be noted that while the width is the same (5ft.), the bridge length is being increased to 40 feet to better span the stream and avoid use of existing in-stream stone abutments in favor of placement on concrete sills constructed on the trail surface.

Description of Measures Taken to Avoid, Mitigate and Minimize Impacts to Natural Resources

Bridge installation will occur entirely within the trail corridor and will be built on or above the height of the former bridge height.

A.) Trees to be removed:

No tree cutting is required for this project.

B.) Earthwork and Disturbance:

Only a minor amount of earthwork will be needed for the bridge replacement. This will involve the leveling of the bridge sills. This impact will be minimal due to the generally level ground conditions at the project site. Ground protection mats will be used in wet areas to protect the condition of the ground. Disturbance resulting from motor vehicle use will be restored as closely as possible to the pre-existing project condition.

C.) Impacts to Streams, Waterbodies, and Wetlands:

No wetland impacts are involved with the activities as proposed. Bridge replacement will occur on the hardened surface that the trail corridor now occupies. Due to the compacted soil at the project site, erosion and sedimentation into the stream will be minimal and will primarily be attributed to foot traffic while working on the streambank during bridge installation.

D.) Identification of Rare, Threatened and Endangered Species:

A search of available GIS databases yielded no known occurrences of Rare, Threatened or Endangered species at or within ¼ mile of the project area.

Analysis of Project Location and Design Alternatives

Alternative 1- No Action:

The condition of the bridge is deteriorating and will eventually fail. Consequently, the "No Action" alternative is not the preferred alternative.

Alternative 2-Permanent bridge removal:

In dry summer months, this crossing is manageable, but in times of heavy precipitation, conditions in the stream can make it difficult for recreationists to cross safely. Complete removal of the bridge would result in undesirable impacts to the natural resources and visitor experiences and therefore, alternative 2 was not selected as the preferred alternative.

Alternative 3- Relocation of the bridge in a different area:

Bridge relocations were considered, however the current location of the bridge is located in the most appropriate location given the landscape characteristics of the adjacent stream corridor. Any relocation of the bridge would require a larger bridge structure to accommodate a wider span of the stream corridor. In addition, relocation of the bridge would involve tree cutting and more substantial earthwork.

Description of Use of Motorized Equipment and/or Motor Vehicles (if any)

Transportation of steel stringers and lumber to project site will require the use of a six-wheeler, excavator and a Galdoni AWD vehicle. Use of equipment will be kept within the existing trail corridor and will be used to transport the materials under suitable ground conditions. Chainsaws, a gas-powered generator will be used during bridge removal and construction. All motorized equipment use will be done in accordance with the CP-17 policy.

Description of Applicable Standards for Accessibility by People with Disabilities

This project is a modification of an existing facility that is currently not built to ADA standards. The trail corridor leading to the project site does not possess the required average slope needed to be in compliance with ADA specifications. Due to these factors the project will not incorporate ADA design features.

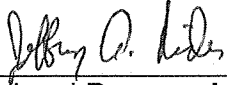
Other Relevant Considerations

Prepared by (Name & Title): Pine Roehrs, Environmental
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Date: 8/27/2024

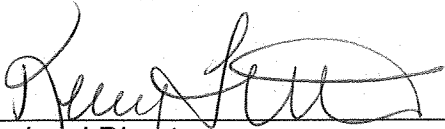
Approvals:

Comments:



Regional Program Manager

Date: 10/07/2024



Regional Director

Date: 10/8/2024



Division Director

Date: 10/07/2024

REGULATORY CLEARANCE CHECKLIST – STATE LANDS and CONSERVATION EASEMENT PROJECTS

PROGRAM	PERMIT	REQUIRED		SECURED BY	COMMENTS
		YES	NO	(NAME)	
Air Resources	Restricted Burning	<input type="checkbox"/>	<input type="checkbox"/>		
Mineral Resources	Mining	<input type="checkbox"/>	<input type="checkbox"/>		
Materials Management	Solid Waste Mgt. Fac.	<input type="checkbox"/>	<input type="checkbox"/>		
Water	Dam Safety Review	<input type="checkbox"/>	<input type="checkbox"/>		
	Const. in Flood Hazard	<input type="checkbox"/>	<input type="checkbox"/>		
	Public Water Supply	<input type="checkbox"/>	<input type="checkbox"/>		
	SPDES	<input type="checkbox"/>	<input type="checkbox"/>		
Spills Management	Petro. Bulk Storage	<input type="checkbox"/>	<input type="checkbox"/>		
Lands and Forests	Unit Management Plan	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Pine Roehrs	
	Tree Cutting	<input type="checkbox"/>	<input type="checkbox"/>		
	Protected Native Plants	<input type="checkbox"/>	<input type="checkbox"/>		
	Historic Preservation	<input type="checkbox"/>	<input type="checkbox"/>		
Fish and Wildlife	Freshwater Wetlands	<input type="checkbox"/>	<input type="checkbox"/>		
	Wild Scenic & Rec. River	<input type="checkbox"/>	<input type="checkbox"/>		
Compliance Services	Other Protection of Waters	<input type="checkbox"/>	<input type="checkbox"/>		
	EAF	<input type="checkbox"/>	<input type="checkbox"/>		
	Negative Declaration	<input type="checkbox"/>	<input type="checkbox"/>		
	Env. Impact Statement	<input type="checkbox"/>	<input type="checkbox"/>		
	Water Quality Cert.	<input type="checkbox"/>	<input type="checkbox"/>		
DEC (other)	CP-17	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Commissioner (aircraft, motorized equipment)	<input type="checkbox"/>	<input type="checkbox"/>		
	Flight Request	<input type="checkbox"/>	<input type="checkbox"/>		
	Contract Clearance Sh.	<input type="checkbox"/>	<input type="checkbox"/>		
	DOB Exemption	<input type="checkbox"/>	<input type="checkbox"/>		
Other Agencies	APA MOU	<input type="checkbox"/>	<input type="checkbox"/>		
	APA Wetlands Permit	<input type="checkbox"/>	<input type="checkbox"/>		
	Corps. of Engineers	<input type="checkbox"/>	<input type="checkbox"/>		
	Building Permits	<input type="checkbox"/>	<input type="checkbox"/>		
	Local Permits	<input type="checkbox"/>	<input type="checkbox"/>		
	Easements	<input type="checkbox"/>	<input type="checkbox"/>		
	Highway Enter DOT	<input type="checkbox"/>	<input type="checkbox"/>		
	Wastewater Disposal	<input type="checkbox"/>	<input type="checkbox"/>		



Figure 1: Collapsed Abutment



Figure 2: Collapsed Abutment



Figure 3: Proposed new abutment in orange paint



Figure 4: Proposed abutment in orange paint



Figure 5: Potential creek crossing

Kelly Hollow Bridge Replacement

