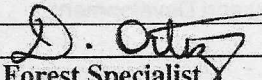
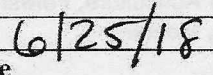


**Project Review for Heritage Resources under the Terms of the 2004
Programmatic Agreement among the USFS R6, ACHP, and SHPO
June 2004**

Forest:	Mount Hood National Forest
Ranger District:	Hood River Ranger District
County:	Hood River County
Undertaking/Project Name	Tilly Jane Roof Replacement FY18 (Phase III)
USGS Quads:	Mt Hood North, Oregon

By signing this document, the Forest Specialist certifies that for this project the Forest complies with Section 106 of the National Historic Preservation Act, under the terms of the 2004 Programmatic Agreement (PA) for the State of Oregon. This form shall be kept on file as supporting documentation

	Stipulation III (A) 1	Undertaking meets the criteria listed in Appendix A of the PA
	Date:	Inspection, monitoring, or other identification will be submitted to the Forest Specialist.
	Stipulation III(A)2	Undertaking meets the criteria listed in Appendix B of the PA.
#36	Date: 06/25/2018	Inspection, monitoring, or other identification will be submitted to the Forest Specialist.
	Stipulation III(A)3	Undertaking meets the criteria listed in Appendix C (Exempt/Non-undertaking).
	Stipulation III (B)1	Undertaking meets the criteria in the PA for a No Historic Properties Affected determination.
	Stipulation III(B)2	Undertaking meets the criteria in the PA for a Historic Properties Avoided determination.
	Stipulation III(B)3	The Forest has notified interested Tribes and persons, as appropriate, of the findings and made the findings available to the public.
	Stipulation III(B)4 Date:	Historic Properties Adversely Affected. SHPO review period (30-day) required.
	Stipulation III(B)5 Date:	No Historic Properties Affected: The Forest Service provided documentation to the SHPO and notified all interested parties, and made the information available to the public. SHPO review period (30-days) required.

	
Forest Specialist	Date

For SHPO USE: For Historic Properties Adversely Affected, please indicate your opinion of our determination by marking the appropriate box below, sign and return this form to the Forest.

<input type="checkbox"/>	I concur with No Historic Properties Affected	
<input type="checkbox"/>	I do not concur, because in my opinion	
<input type="checkbox"/>	Date Received	
<input type="checkbox"/>	SHPO Bibliographic Number:	

**CULTURAL RESOURCE PRE-INSPECTION/MONITORING FORM
FOR UNDERTAKINGS EXCLUDED FROM CASE-BY-CASE REVIEW
PER APPENDIX B OF THE USFS/SHPO/ACHP PROGRAMMATIC AGREEMENT
MT. HOOD NATIONAL FOREST**

Project Report #2018/060606/002

<u>Project Name:</u> Tilly Jane Roof Replacement FY18 (Phase III)	<u>PA Stip:</u> III.A.2 (36)
<u>District:</u> Hood River <u>County:</u> Hood River	<u>Date of Inspection:</u> N/A
<u>USGS Quad:</u> Mount Hood North, OR 1996	<u>Project Type:</u> Facilities Maintenance
<u>Legal Description:</u> T. 2S, R. 9E, Sec. 15	<u>Acres Surveyed:</u> 0.0

Need:

Both the Tilly Jane Warming Hut (A-Frame) (666EA092A) and guard station shed roofs are heavily deteriorated, and leaking. The A-frame is at a critical juncture. The roof and several of the underlying structural elements have deteriorated to the point where work must be completed now to preserve the integrity of the structure and allow for continued public access.

Project Description:

Description of the Structure

The Tilly Jane Warming Hut is a one and one-half story rectangular log A-Frame building with a concrete floor. The structure lies on an East/West axis and measures 18 by 56 feet. The shake, gabled roof is built with log rafters that extend to the ground level forming the "A" shape and covered with Western Red Cedar roof shakes. The log rafters and shake roof are character defining elements along with the natural rock boulders that make up the rafter abutments. The shelter has an architectural design characteristic of alpine areas.

Preservation Standards and Guidelines

All work would be accomplished following the Secretary of the Interior's Standards and Guidelines for the Treatment of Historic Properties. Primary references for the design, implementation, and completion of this undertaking include:

- Bickenheuser, Cathy
2015 *Dovetails and Broadaxes: Hands-On Log Cabin Preservation*. Publication 1523-2802P-MTDC, U.S. Department of Agriculture, Forest Service, National Technology and Development Program, Missoula, Montana
- Bomberger, Bruce D.
1991 *The Preservation and Repair of Historic Log Buildings*. Preservation Brief 26. ISSN 0885-7016, U.S. Department of Interior, National Park Service Cultural Resources
- Fickes, Clyde P, W. Ellis Gorben
1944 *Building with Logs*. U.S. Department of Agriculture, Forest Service, Region One, Missoula, Montana
- International Log Builders' Association
2015 *Effective Practices & Methods for Handcrafted Log Construction*. International Log Builders' Association, Montebello, Quebec, Canada

Project Report #2018/060606/005 (Cont.)

Scope of Work

The three-month project window will focus on structure stabilization and repair and culminate in the replacement of the entire cedar shake roof. All materials will be in-kind replacements. Work will duplicate the original methods employed in the structure's construction and include:

- (1) Replace the remaining 3 concrete piers and re-installing the original rock footings. This action was previously concurred by SHPO (2016-060606-008). The concrete piers/rock footings are located within the alcove section of the structure.
- (2) Replace the remaining 6 rafters, again matching what was approved and completed under the 2016 SHPO approval, noted above. These are also located within the alcove section of the structure.
- (3) Rebuild both the East and West side log walls within the alcove area. This will be an in-kind replacement of original walls and logs, using materials sourced from the surrounding area.
- (4) Rehabilitate or splice in new log ends for the 24 (8 on the East side, 8 on the West side, 5 on the North and 3 on the South side) log ends that protrude beyond the roof line. These logs have rotted over the years due to continual exposure to the elements. The plan is to rehabilitate them using color matched epoxy and filling in the rotted areas or if this isn't possible due to structural compromise, we'll splice in matching logs using lap joints. The splice bolts will be counter-sunk and hidden from the casual observer. This will match phase 1 work that was previously approved by SHPO for the rafters noted above (see 2016-060606-008).
- (5) Ridge gusset repairs. All thread rods, washers and screws will be used to stop the rafters from continuing to spread apart at the apex of the roof. They will be installed once the roof is removed, with a bore hole being drilled at the apex where the rods will be inserted and tightened down using the washers and screws. This work was previously approved by SHPO as noted above.
- (6) Replace the original shake roofs of the Tilly Jane A-frame and guard station garage. The shakes are 32" long, 3/4" thick with a 10" exposure, and are taper split. The reroofing of both structures will be an in-kind replacement of materials and workmanship. All shingles will be produced from Western Red Cedar. Shingles for the warming hut will be produced with a 3/4" taper split and measure 32" long. When installed the warming hut shingles will have a 10" reveal. Shingles for the guard station shed are slightly different. Shingles for the shed are 36" long, barn split (relatively even thickness, but split on both sides) - 1/2" to 3/4" thick, and will have a 24" reveal when installed.

Logistics

The Hood River Ranger District Compound, located in Parkdale Oregon, will serve as the staging area for all materials, equipment, and supplies. The Parkdale compound is located 18.3 miles from the Tilly Jane Campground. Trent Skinner (East Zone Archaeologist for the Mt. Hood National Forest) will coordinate with the Forest Service for any necessary personnel or vehicle support as necessary.

Roles and Responsibilities

Phase III of the Tilly Jane A-Frame restoration and rehabilitation project will be completed by volunteers from the Oregon Nordic Club (ONC), USFS personnel from the Barlow and Hood River Ranger Districts of the Mt. Hood National Forest, and professional contractors from Wells Construction with consultation from folks experienced in historic preservation in the Pacific Northwest.

Project Report #2018/060606/005 (Cont.)

- **Project Director**
Andre' Fortin - ONC-PDX, overall project lead and coordinator of all volunteer activities.
- **Construction Supervisor**
Todd Wells - Wells Construction, whom we have hired as the construction lead based on his experience restoring the historic Cloud Cap Inn.
- **Project Planners and Consultants:**
Shannon Sardell – Director (since 2009) of the Pacific Northwest Preservation Field School (PNWFS), Instructor, University of Oregon School of Architecture and Environment, B.Arch. and an M.S. in Historic Preservation from the University of Oregon.

Lucien Swerdloff –Coordinator and Instructor in Historic Preservation and Restoration; Computer Aided Design and Graphics programs at Clatsop Community College, M. Arch and M. S. degrees from the State University of New York at Buffalo

David Rogers - owner and operator of Logs and Timbers LLC, Rhododendron, Oregon, specializes in repair and restoration of log and heavy timber frame historic structures. More than 3 decades of experience in a wide variety of projects for public and private entities.

Mike Dryden - USFS East Side Archaeologist (retired)
- **Compliance, Reporting, and Documentation**
Trent Skinner - East Zone Archaeologist for the Mount Hood National Forest

Debbie Ortiz - Heritage Program Manager, Mount Hood National Forest

Project Documentation, Monitoring, and Evaluation

All project activities will be documented by Trent Skinner, East Zone Archaeologist of the Mt. Hood National Forest. Photographs, elevation drawings, and detailed measurements will be used to document each element of the structure prior to project implementation. All work activities and new elements will be documented in the same manner. This information will be consolidated in a report after project completion.

Project Timing:

All work for Phase Three will be completed between mid-July and September 2018.

- **July 2018 – Equipment and material staging.**
Site prep work will begin in July, once the road is cleared of snow and reopened. This includes finding and moving like sized logs into place near the cabin and digging the footing holes.
- **August-September 2018 – Structure stabilization and reroofing.**
Setting the foundation rocks, replacing the rafters, rebuilding the log walls, adding gusset plates, reroofing, and the log end/rafter tail stabilization-replacement
- **Mid-October 2018 – Winter road closure**
The objective is to complete the work before the road closes for the winter, typically mid-October. This will ensure the cabin is available for public use during the 2018-19 winter season and beyond.

Project Report #2018/060606/005 (Cont.)

Archaeological Properties:

The proposed project area is located within the Cloud Cap-Tilly Jane Historic District. Historic properties within the district include the Tilly Jane Guard Station (666EA272), the American Legion Amphitheater (666EA273), the American Legion Cookshed (666EA274), the Cloud Cap Road (666EA275), the Tilly Jane Creek Water Development (666EA287), the Tilly Jane Ski Trail #643 (666EA288), and the Polallie Ridge Trail #643A (666EA289).

The Tilly Jane Warming Hut (A-Frame) (666EA092A) is a contributing element to the Cloud Cap-Tilly Jane Historic District.

Recommendations:

Actions (1-5) described above were previous concurred by SHPO 8/18/2016 under the Tilly Jane Ski Warming Hut Rehabilitation Report (2016-060606-008).

Action (6), the Tilly Jane A-frame and guard station garage roof replacement has limited potential to affect historic properties (Stipulation III.A.2. 36 -*Repair and replacement of roofing, gutters, and roof drain systems with materials that match the existing materials and form.*) and is exempt from case-by-case review in accordance with the 2004 Programmatic Agreement. Recommendation is that the project proceed as proposed with **No Effect** to the heritage district.

Form Completed by/Title: Trent M. Skinner, East Zone Archaeologist




SIGNATURE

6/25/2018

DATE

Reviewed by/Title: Debbie Ortiz, Heritage Program Manager



SIGNATURE

6/25/18

DATE

References:

Dryden, Michael

2016 Tilly Jane Ski Warming Hut Rehabilitation, 2016/060606/008 (SHPO Case No. 16-1464). Mt Hood National Forest, Hood River Ranger District

Project Location Map (From Dryden 2016).

