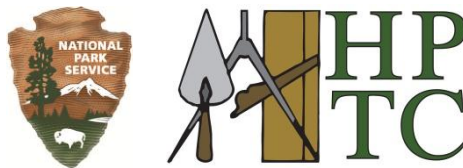

Historic Structure Treatment Record

Repair Wirth Hall Basement Windows and Doorways Stephen T. Mather Training Center

For the
Stephen T. Mather Training Center

PMIS #183498A
Historic Preservation Training Center
National Park Service
Frederick, MD



April 2014

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Part I | Completion Report

Project Narrative

Project Summary

This Historic Structure Treatment Record (HSTR) outlines the preservation work completed by the Historic Preservation Training Center (HPTC) wood crafting section to the Wirth Hall basement windows and doors. After a condition assessment was performed by one of HPTC's wood crafting project leaders, it was determined that 16 window units and 6 door units were in need of repair.

Project History

05/04/2013:	Final Project Agreement signed
08/01/2013:	Pre-Construction Meeting
08/5/2013:	Project started
01/2014:	Project completed

Project Description

The objective of this project was to preserve 16 window units and 6 door units. The sash were removed from their openings and transported to HPTC's Jenkins shop facility for abatement and any wood repairs necessary and then reinstalled. The door units were repaired on-site. The window hardware was refurbished; the door hardware was not. Both windows and doors received oil primer and two coats of high quality latex paint.

Section 106 Compliance

Section 106 clearance was handled under the Memorandum of Agreement XXX process and was obtained by the Park. Any necessary compliance requirements are the responsibility of the Park.

Summary of Work

Work began with the removal of the window sash. Interior stop molding was removed, tagged and saved, and plywood sheets were custom cut for each opening and painted white. A 5/16" thick strip of rubber foam weather seal was applied to the perimeter of each plywood sheet and pressed up against the exterior window stop to create a weather tight seal. The plywood sheets were secured with temporary interior stop strips. Any of the existing metal grates were also removed. The sash and metal grates were then transported to HPTC's Jenkins shop facility in Frederick, MD for further work. Additionally, samples of glazing and paint were taken from the basement windows and sent to EMSL Analytical, INC for lead and asbestos testing. The results showed that the paint was below the threshold for lead in paint, and the glazing came back with a 2% reading of chrysotile asbestos and will be treated off site accordingly.

Next, bricked over window openings were opened. Four to five layers deep of brick courses were discovered. Whole bricks were saved and given to park maintenance; the remaining brick debris was removed from the site and disposed of.

Wood Dutchmen were made on windows 2, 15, and 16. The wood window header on window 16 was deteriorated on the left side; the damaged area was removed and a mahogany Dutchman was installed using a West System two-part epoxy. On window 2, the bottom of the right window jamb and a portion of the sill were dry rotted. Similar to window 16, the deteriorated portion was removed and a mahogany Dutchman was installed; a combination of SculpWood and West System (both two-part epoxies) epoxies were used. Window 15 needed a new bottom rail fabricated. Both tenons on the existing bottom rail were completely deteriorated and the rail had dry rot through the center. Dutchman repairs to the ends of both styles were made, re-establishing the mortise. Once these repairs were made, the sash of window 15 was reassembled.

Sash openings for windows 13 and 14 on the east elevation were reproduced using windows 12 and 15 as examples. The material for these two reproductions was milled at Jenkins shop facilities. A 3" x 4" angle iron was installed in the opening of window 14 as a support for the cracked header stone on the east elevation. The metal was primed with Rust-O-Leum zinc rich primer, and then the angle iron was mortared into the masonry walls.

At the Jenkins shop, the glazing and paint on the windows was removed. Any broken or missing glass was then replaced and all windows were glazed using Sarco glazing putty. The pulleys that had been removed from the window jambs were cleaned; all the paint was removed from the face plate and wheel, the faces were wire brushed clean, and a coat of Rust-O-Leum clear lacquer was applied. The window sash were then primed with oil based primer, sanded, and received two finish coats of latex exterior paint and re-installed.

The stainless steel mesh panels were powder coated jet black by High Tech Coatings, Inc. and then transported to the site for installation.

On site, the window sills, jambs, and trim were all wet scraped and sanded to a paintable surface and repairs were made as needed prior to painting. Once finished, the window sills, jambs, and trim received two coats of Benjamin Moore semi-gloss latex paint. Also, concrete sill slopes were created for windows 9, 10, and 12 on the east elevation. The existing sills were cracked and deteriorated. Existing material was removed, the area was cleaned, and new sills were formed. Once set, the slopes were painted.

All deteriorated wood components on the door units were repaired with either epoxy or a wood Dutchman and then wet scraped and sanded to remove flaking or failing paint. The intact paint was feathered out and the doors were then primed with Benjamin Moore penetrating alkyd primer, wiped down with deglosser, and painted with Benjamin Moore semi-gloss latex paint to match the existing Wirth Hall color. The center batten on the west elevation door was replaced due to deterioration and mismatched repairs on the bottom. Additionally, a new door sweep was installed on door 6 and a new door threshold was installed on door 2.

Project Participants

NPS Project Supervisor: Chris McGuigan, Section Leader
HPTC Wood Crafting Team

NPS Project Leader:	Tara Hrynik, Exhibits Specialist HPTC Wood Crafting Team
Alt. NPS Project Leader:	Dean Wigfield, Exhibits Specialist HPTC Wood Crafting Team
HSTR Author:	Victoria Peterson, Exhibits Specialist Intern HPTC Masonry Team
STMA Support Staff:	Dave Dahlen, Superintendent
HAFE Support Staff:	Peter Dessauer, Historic Architect

Selected Photographs



Figure 1 : An example of the window conditions prior to the preservation work completed by the HPTC wood crafting team.



Figure 2 : Some of the window openings had been bricked over. Here, the HPTC wood crafting team begins to open up one of these window openings.



Figure 3 : When opened, four to five layers of brick courses were discovered. Whole bricks were saved and given to park maintenance; the remaining debris was disposed of.



Figure 4 : The window sash were taken to HPTC's Jenkins shop facility for abatement and repairs before being reinstalled in their respective openings. Above, a repaired sash is reinstalled.



Figure 5 : A completed sash installation



Figure 6 : Final window unit repairs. Once the window units were replaced, the stainless steel mesh panels were reinstalled.



Figure 7 : The HPTC wood crafting team also worked on the doorways of the Wirth Hall. Pictured above is a doorway that has been wet scraped and sanded to remove any flaking or failing paint; primed with Benjamin Moore alkyd primer; wiped down with deglosser; and painted with Benjamin Moore semi-gloss latex paint to matching the existing paint.



Figure 8 : Similarly, this image pictures another door that was treated using the same process as the door in figure 7.

Part II | Project History

Project Agreement

Final Project Agreement between Stephen T. Mather Training Center and the National Park Service (NPS), Historic Preservation Training Center (HPTC). June 4, 2013.

- Final Project Agreement



**FINAL PROJECT AGREEMENT
PMIS 183498A/PEPC 46740
REPAIR WIRTH HALL BASEMENT WINDOWS AND DOORWAYS
STEPHEN T. MATHER TRAINING CENTER
FY13**

June 4, 2013

RECOMMENDED: _____ DATE: _____
SUPERINTENDENT, HISTORIC PRESERVATION TRAINING CENTER

APPROVED: _____ DATE: _____
SUPERINTENDENT, STEPHEN T. MATHER TRAINING CENTER

CONCURRED: _____ DATE: _____
SUPERINTENDENT, HARPERS FERRY NATIONAL HISTORICAL PARK

CONCURRED: _____ DATE: _____
ARCHITECT, HARPERS FERRY NATIONAL HISTORICAL PARK

Submitted by:
National Park Service
Historic Preservation Training Center
4801-A Urbana Pike
Frederick, Md.

DRAFT PROJECT AGREEMENT:
Repair Wirth Hall Basement Windows and Doorways
Stephen T. Mather Training Center, FY13

I. DESCRIPTION OF THE PROJECT

The scope of work for this preservation project was developed from the PMIS statement #183498A, prepared by Dave Dahlen, superintendent of the Stephen T. Mather Training Center (STMA). At the request of the STMA superintendent, Dean Wigfield of the Historic Preservation Training Center (HPTC) assessed the conditions of the doors and windows. When executed, this project will repair and preserve 16 window units and 6 door units.

II. STRUCTURE DESCRIPTION

The National Park Service acquired the building in 1962. Wirth Hall is the largest historic building in the park. Located on the summit of Camp Hill, in Harpers Ferry, West Virginia, historic Wirth Hall is occupied by the Mather Training Center (STMA).

III. STRUCTURE CONDITION

The building basement windows and doors have deteriorating wood components, peeling paint and detached and missing security grilles.

IV. SCOPE OF WORK

HPTC will work within the Secretary of the Interior's Standards for the Treatment of Historic Properties as preservation specialists to complete the following tasks on Wirth Hall.

TASK # 1: Design and Planning.

Prior to the start of the project a Project Safety Plan will be prepared, which identifies risks and hazards associated with this project. Procurement documents will be prepared to purchase materials and services for the project.

TASK # 2: Mobilization, Scaffold Erection, Demobilization

A team of preservation craft persons, appropriate for the project, will be assembled. All necessary tools, equipment, and materials will be assembled and transported to a STMA/HAFE designated staging area. Fencing will be erected around the work areas to protect visitors and STMA staff. During all phases of the project, the HPTC will protect the grounds from unnecessary damage, and will repair any damage that could not be avoided.

Upon completion of all the tasks, the HPTC tools and equipment will be removed from the site and transported to HPTC Facilities. Any remaining materials will be accessioned to the Park or returned to the HPTC. Following the completion of all tasks, the work site will be restored to an acceptable condition.

DRAFT PROJECT AGREEMENT:
Repair Wirth Hall Basement Windows and Doorways
Stephen T. Mather Training Center, FY13

TASK # 3: Preserve 16 window units

Remove sash from their openings and transport back to the HPTC shop for abatement. Seal openings with painted plywood set in a polyurethane gasket. Wet scrape and sand window sills, jambs, and trim to a paintable surface. Repair/replace wood window components with epoxy or wood Dutchman repairs. Re-install the window sash. Install new brass weatherstrip. Refurbish all existing hardware. Prime all wood components with oil primer and apply two coats of high quality latex paint. Re-establish the two basement windows on the east elevation with wood window units matching the others on this elevation. Remove the existing metal security grates on the exterior of the basement windows and fabricate 16 new stainless steel grates to cover the interior of the windows. Paint metal window grates black.

TASK # 4: Preserve 6 door units

Repair/replace all deteriorated wood components with epoxy or wood Dutchman, wet scrape and wet sand doors to a paintable surface, prime with oil primer and apply two applications of latex paint. Doors will be repaired in place. No new weatherstripping or hardware is planned.

V. DATA COLLECTION

The following documents provided historical, existing condition assessments, structure specific recommendations, and management guidelines for this project:

- Historic photos from the Library of Congress and HAFE park collection.
- Camp Hill Cultural Landscape Report, prepared by Heritage Landscapes, June 2009.

VI. COMPLIANCE

Any necessary compliance requirements will be the responsibility of the Park. STMA PMIS 183498A is entered into PEPC 46740.

VII. PROJECT COORDINATION:

The successful execution of this project will depend upon the timely completion of any and all necessary actions as outlined by each of the following parties to this Project Agreement:

DRAFT PROJECT AGREEMENT:
Repair Wirth Hall Basement Windows and Doorways
Stephen T. Mather Training Center, FY13

- HPTC:
- Review existing documentation and reports and prepare a Project Agreement and cost estimate describing project work.
 - Coordinate phasing of the work performed by the HPTC preservation team.
 - Conduct preconstruction, progress inspection, final inspection, and other such on-site, project- related meetings as required.
 - Provide project supervision for all work performed by the HPTC's preservation team.
 - Coordinate all work activities to have the least impact as possible on the historic scene and landscape of Harpers Ferry's Camp Hill. Secure project areas for weekends.
 - Provide crafts people, tools, and materials to perform all construction activity outlined in Section IV, Products. Provide staging, building protection and grounds protection.
 - Provide weekly reports on project progress and activities to Park.
 - Provide proper disposal facilities for and periodic collection of all construction debris associated with this project.
 - Maintain a record of treatment for all documentation on all phases of the subject work. Prepare and distribute a record of treatment within six months of the date of the final inspection. See Section IX for details regarding distribution.
 - Provide for NPS/visitor access and protection while the project is ongoing. Install all signage appropriate for this project.
 - Maintain work and staging area according to OSHA Regulations and Guidelines, mow and maintain work area during project.
 - Prepare and provide to the park a mobilization plan, a detailed schedule, and a safety plan.
- HAFE/STMA: Consistent with the provisions of this Project Agreement, provide access to the project site for the day labor crew and any related contract or supply or service contract associated with the project work or as stipulated at the preconstruction conference.
- Provide toilet facilities for HPTC crew in Wirth Hall.

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Repair Wirth Hall Basement Windows and Doorways
Stephen T. Mather Training Center, FY13

Provide parking for 2 vehicles near the site, mark with reservation signs for HPTC.

Provide inside area for HPTC crew for breaks and lunch.

Provide any and all necessary clearances and/or permits for the project including federal, state, and local permits required. Prepare all compliance documents as required by the Historic Preservation Act of 1966, as amended. Provide a copy to the HPTC for inclusion in the Record of Treatment.

Review, comment, and approve/reject all project submittals in a timely manner.

Provide staging area in yard close to project.

Provide access to a clean water source and electrical service for the project related purposes.

Designate a single administrative contact.

The HPTC and STMA/HAHE will determine matters regarding site related issues (access, closures, signings, etc.). The HPTC's project leader may vary from time to time, but at all times a designated person will retain on site authority and serve as the immediate HPTC project contact. HPTC project leaders do not have approval authority on matters concerning time, money, scope of work, or design changes. Matters concerning project objectives and/or design-related issues will be determined by approved compliance and design documents; any unresolved issues or changes will be handled among STMA and the HPTC's supervisory staff. Matters regarding logistics and/or techniques of project execution will be determined by the HPTC. Further refinement of these roles and responsibilities will be discussed at the preconstruction meeting.

VIII. SAFETY

Worker and visitor safety is a primary concern within the NPS. Safety awareness and compliance shall be both a team and individual concern, with all parties striving to attain a safer work environment.

GENERAL

A project-specific Safety Plan will be developed for this STMA/HAFE project and made available to the client upon request. Each member of the project team will acknowledge their familiarity with the Plan by affixing their signature to the "Crew sign off sheet." The plan designates the "Competent Person" for all OSHA regulated activities.

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This STMA project is a hard hat area in compliance with OSHA regulations. All persons entering the designated work area will wear an approved hard hat at all times. The HPTC section chiefs are the only individuals who may grant exception to this HPTC policy. The HPTC Project Leader is responsible for ensuring that all activities are compliant with all safety related issues.

Project leaders shall conduct weekly "tailgate safety meetings" with workers assigned to the project and file OSHA required records in the project file.

Project leaders shall ensure that all work activities are consistent with applicable health and safety regulations and the HPTC Safety Programs.

ACCIDENT FORMS

On all HPTC projects, HPTC is responsible for reporting and investigating all accidents in accordance with HPTC's Safety Program (available upon request), laws and regulations.

Occupational Safety and Health Act – COMPLIANCE

All HPTC project work shall be in accordance with OSHA regulations-29 CFR Part 1926.

IX. PRODUCTS

Products to be furnished by the agreements within this Project Agreement from the HPTC to the STMA are:

1. Completion of preservation tasks as detailed in Section IV of this Project Agreement.
2. The HPTC shall prepare a Record of Treatment for this project in accordance with the NPS Directors's Order (DO) #28, Cultural Resource Management. The record of treatment includes account data, photographs, sketches, narrative and correspondence outlining the course of work, conditions encountered, and materials used.

The HPTC shall provide limited distribution of the Historic Structure Record of Treatment. Broad distributions of the Historic Structure Record of Treatment as outlined in Appendix D, DO #28 shall be the responsibility of the park. The HPTC shall provide the Park and STMA with 2 Historic Structure Record of Treatments prepared in a CD Rom format and 4 hardcopies. Included in this document will be select scanned photographic images. All original photographs and negatives will be packaged separately in a loose leaf binder and provided to the park. The HPTC shall retain an electronic copy with duplicates of all photographs for the HPTC's library. The HPTC shall distribute a CD Rom copy of the Historic Structure Record of Treatment with electronically scanned photographic image to the HPTC Deputy Superintendent, the designated Project

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Repair Wirth Hall Basement Windows and Doorways
Stephen T. Mather Training Center, FY13

Leader, the Regional Office, the Harpers Ferry Center Library and the DSC
Technical Information Center.

X. ESTIMATED SCHEDULE

Final Project Agreement:	June 13, 2013
Project Start Date:	July 5, 2013
Project Completion Date:	April 30, 2014
Distribute Project Record:	October, 2014

XI. PRODUCT TEAM

HPTC: Dean Wigfield, Project Supervisor
STMA: Dave Dahlen, Superintendent
HAFE: Peter Dessauer, Architect

Distribution of correspondence will be determined at the pre-construction meeting.

XII. COST ESTIMATE

TASK # 1: Design and Planning

Labor:	
(1) Exhibits Specialist @ 2 weeks	3,840
SUBTOTAL	3,840

TASK # 2: Mobilization, Demobilization

Labor:	
(1) Exhibits Specialist @ 6 days	2,880
(1) Maintenance Worker @ 6 days	2,880
Materials: Fencing rental	1,100

SUBTOTAL	6,860
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TASK # 3: Preserve 16 window units

Labor:	
(1) Exhibits Specialist @ 8 weeks	15,360
(2) Maintenance Workers @ 6.5 weeks	24,960
Materials:	

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Mahogany, glass, paint, plastic, screen, screws, weatherstrip, etc.	7,750
Services:	
Fabrication of stainless steel screens	8,000
SUBTOTAL	56,070

TASK # 4: Preserve 6 door units

Labor:	
(1) Exhibits Specialist @ 1.5 weeks	2,880
(2) Maintenance Workers @ 1.5 weeks	5,760
Materials:	
Mahogany, paint, etc.	800
SUBTOTAL	9,440

ITEM # 1 Project-Related Costs

Preparation of Record of Treatment	1,500
Project Supervision	3,800
Tool repair/replacement	300
Lead disposal	500
SUBTOTAL	6,100

COST ESTIMATE SUMMARY

TASK #1.....	3,840
TASK #2.....	6,860
TASK #3.....	56,070
TASK #4.....	9,440
<u>ITEM #1.....</u>	<u>6,100</u>
SUBTOTAL	82,310
HPTC Overhead	27,436
ESTIMATED TOTAL	109,746

NOTE: HPTC's salaries are calculated on a pay period basic. The number of pay periods is based upon an estimate of the total amount of hours required for each team member to complete the required project tasks. The hourly rate for each occupation is determined by combining the direct hourly rate plus benefits with a prorated amount for the indirect costs of annual and sick leave, holidays, and training time.

DRAFT PROJECT AGREEMENT:
Repair Wirth Hall Basement Windows and Doorways
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XIII. TRAINING

It is the objective of the HPTC to expand our programs by providing opportunities for all NPS employees to receive training, which increases their appropriate levels of sensitivity and responsibility in the recognition and implementation of historic preservation of cultural resources. The focus of HPTC's training is on work based learning and skill improvement.

Various aspects of this project offer different learning opportunities for those involved in its execution. HPTC shall make every effort to maximize the training potential of the project described in this Project Agreement by scheduling HPTC staff, program participants, and Park personnel to appropriate project duties.

PRESERVATION WORK ASSIGNMENT - GENERAL GUIDELINES

To foster a better understanding of the Historic Preservation Training Center's (HPTC) programs and mission, and to enable Park staffs to develop a sense of ownership and feeling of personal involvement in the park project, we have developed the Preservation Work Assignment Program.

This program will be offered only if the assignment will afford a "good" training experience for the park staff. Factors such as project leader and crew skill, knowledge and experience levels, type of project, etc., will be considered before the assignment is offered.

The Project Supervisor or HPTC Superintendent will ask the Maintenance Chief of the host park if they would like any of their staff to work with our crew on the project. If they are agreeable, the park will identify employees. Developmental objectives will be established after meeting with the park staff.

Midway through the assignment, a progress report (Verbal if assignment is two weeks, written if longer) will be sent to the park staff to solicit their input about how the assignment is

progressing. The Maintenance Chief and the HPTC Project Supervisor or HPTC Superintendent will solve any problems that have arisen.

At the end of the assignment, participants will be issued a training certificate, and evaluations will be sent to the participant, the Maintenance Chief/Supervisor, and the Project Leader.

The following criteria will be negotiated between the Maintenance Chief and HPTC Project Supervisor or HPTC Superintendent:

DRAFT PROJECT AGREEMENT:
Repair Wirth Hall Basement Windows and Doorways
Stephen T. Mather Training Center, FY13

- ◆ Park staff must work the agreed upon number of days on the project in order to achieve the established objectives.
- ◆ Park staff will work the same schedule as the HPTC crew or as close to it as possible.
- ◆ Park staff must notify the HPTC Project Leader as soon as possible when their employee has called in sick or is taking annual leave. Likewise, the HPTC Project Leader will notify park staff when the crew must return to the HPTC before scheduled. This includes inclement weather arrangements.
- ◆ Park staff must take breaks and lunch period at the project site and not return to the maintenance yard.
- ◆ Park staff must work at the project site during their entire assignment and not leave to perform other park duties.
- ◆ Park staff must provide own tools.

If it is arranged for a park employee to come to the HPTC to work in the Shop, the Training Manager should be notified so that travel arrangements can be made. All of the other above information applies to this situation also.

Compliance

Section 106 clearance was handled under the Memorandum of Agreement XXX process and was obtained by the Park. Any necessary compliance requirements are the responsibility of the Park.

Correspondence

- Wigfield, Dean and Chris Robinson (HPTC Wood Crafting Team). *Memo to Superintendent, Stephen T. Mather Training Center*. "Transmittal of Final Project Agreement." June 11, 2013.
- Wigfield, Dean (HPTC Wood Crafting Team). *Memo to Superintendent, Historic Preservation Training Center*. "Pre-Construction Meeting Minutes." August 1, 2013.



United States Department of the Interior
NATIONAL PARK SERVICE
Historic Preservation Training Center
4801A Urbana Pike
Frederick, MD 21704



IN REPLY REFER TO:

D18(HPTC)

June 11, 2013

Memorandum

To: Superintendent, Stephen T. Mather Training Center

From: Superintendent, Historic Preservation Training Center

Ref: PKG. PMIS # 183498A Repair Wirth Hall Basement Windows and Doorways

Subject: Transmittal of **Final** Project Agreement

Enclosed is the **Final** Project Agreement and DCA for the referenced project. All comments received from the Center have been incorporated into this document. Upon review, concurrence, and approval of this document, please obtain all necessary signatures on the cover sheet and direct charge authorization and return to the Historic Preservation Training Center for final distribution.

If we can provide any additional information regarding this document, please do not hesitate to contact either Chris Robinson at 301.663.8206 or Dean Wigfield at 301.698.5784.

Chris Robinson

Enclosure

cc:
Dave Dahlen, Superintendent, STMA
Peter Dessaurer, HAFE

Bcc:
HPTC, Printup
HPTC; Robinson
HPTC; McGuigan
HPTC; Wigfield
HPTC Project file

Dwigfield dw:04/18/13:stmafpa

bcc: electronically
HPTC, McGrath (w/enclosure)
HPTC; Robinson (w/enclosure)
HPTC; McGuigan (w/enclosure)
HPTC; Burkhard (w/enclosure)
HPTC; Wigfield- Project file (w/enclosure)



United States Department of the Interior
NATIONAL PARK SERVICE
Historic Preservation Training Center
4801A Urbana Pike
Frederick, MD 21704



IN REPLY REFER TO:

August 1, 2013

Memorandum

To: Superintendent, Historic Preservation Training Center
From: Project Leader, Historic Preservation Training Center
Ref: Repair Wirth Hall Basement Windows and Doorways
Stephen T. Mather Training Center
PMIS 183498A, FY 13/14

Subject: Pre-Construction Meeting Minutes

The subject meeting was held as scheduled on Thursday, August 1, 2013 at 8:30 a.m. on site. The following people were in attendance:

Larry Moore, Acting Facility Manager, HAFE
David Dahlen, Superintendent, STMA
Peter Dessauer, Architect, HAFE
Dean Wigfield, Project Supervisor, HPTC

The meeting began at 8:30 a.m., with Dean Wigfield conducting the meeting. The Project Agreement and the scope of work were covered in detail. Administrative concerns and logistical issues were also addressed. These items included the following:

Project Contact People:

Dave Dahlen/STMA
Larry Moore/HAFE

Project Work Hours

There is a noise ordinance in effect to 8:00 a.m. for the town.
Dean will provide STMA with dates for the preservation activities scheduled for the project.

Safety

In case of an emergency, HPTC field personnel will call 911, or travel to the Jefferson Memorial Hospital.

The site is designated a hard hat work area and entry into the work area will require the proper protection.

Project Details

The project scope of work was covered with all in attendance; the schedule was discussed with project work starting on August 5 and ending in FY 14.

Door work will be scheduled through Dave to accommodate the STMA training schedule.

The 2 window openings that are to be re-established on the east elevation will have the brick façade removed and be re-evaluated by STMA and HAFE for the new jamb and window sash installation. The new dash will match the other sash on this elevation in configuration. Jamb and sash will be constructed of mahogany or spanish cedar.

The new replacement stainless steel metal grates will be installed on the exterior of the window sash. The new grates will be painted black. The old grates will be turned in to HAFE.

The window openings with wood louvers will be cleaned and painted.

The metal jambs will be repaired and repainted.

Park Specific Regulations

Parking will be provided for vehicles in the Shipley School parking lot.

Toilet/Break Facilities

Facilities are available inside the building; HPTC people will wear disposable shoe coverings when entering the building.

Potable water is available on the outside of the building.

Materials/Tool Storage

Materials and tools will be stored on the concrete slab on the west elevation.

Project Site Utilities

Power will be provided from inside the building and run out of either a door or window.

Distribution of Weekly Reports and Correspondence

All correspondence will be distributed to the following key individuals; all at the meeting.

Larry Moore, HAFE
Dave Dahlen, STMA
Peter Dessauer, HAFE

Open Discussion

If there are any questions or concerns regarding this meeting, please contact Dean Wigfield or Chris McGuigan at 301-698-5784.

Dean Wigfield
Project Leader

Cc:
David Dahlen, STMA
Larry Moore, HAFE
Peter Dessauer, HAFE
Mia Parsons, HAFE

bcc: (All Electronic)
Robinson, HPTC
C. McGuigan, HPTC
D. Wigfield, HPTC
Project file, HPTC

Weekly Reports

- Hrynik, Tara (HPTC Wood Crafting Team Project Leader). "Final Field Report #1." August 12, 2013.
- Hrynik, Tara (HPTC Wood Crafting Team Project Leader). "Final Field Report #2." August 26, 2013.
- Hrynik, Tara (HPTC Wood Crafting Team Project Leader). "Final Field Report #3." September 3, 2013.
- Hrynik, Tara (HPTC Wood Crafting Team Project Leader). "Final Field Report #4." October 28, 2013.
- Hrynik, Tara (HPTC Wood Crafting Team Project Leader). "Final Field Report #5." November 12, 2013.
- Hrynik, Tara (HPTC Wood Crafting Team Project Leader). "Final Field Report #6." November 18, 2013.
- Hrynik, Tara (HPTC Wood Crafting Team Project Leader). "Final Field Report #7." November 25, 2013.
- Hrynik, Tara (HPTC Wood Crafting Team Project Leader). "Final Field Report #8." December 9, 2013.
- Hrynik, Tara (HPTC Wood Crafting Team Project Leader). "Final Field Report #9." December 16, 2013.
- Hrynik, Tara (HPTC Wood Crafting Team Project Leader). "Final Field Report #10." January 6, 2014.

**NATIONAL PARK SERVICE
HISTORIC PRESERVATION TRAINING CENTER (HPTC)
FINAL FIELD REPORT #1
FY – 13**

SITE: Stephen T. Mather Training Center

PROJECT: Repair Wirth Hall Basement Windows and Doorways **PMIS#:** 183498A

DATE: August 12, 2013

WEEK ENDING: August 12, 2013

GENERAL

This weekly report documents the first work week on site at Stephen T. Mather Training Center, Wirth Hall.

A site visit was made on Tuesday August 6 by Project Leader Tara Hrynik. Tara met briefly with Superintendent Dave Dahlen to look around and discuss logistics for site work Wednesday. HPTC will begin with designated windows on the west elevation and proceed to the north east corner designated sash once STMA has cleared IT equipment from the work area. Preliminary site work took place Wednesday August 7. All tools and materials brought to site were removed upon completion of project tasks. Full mobilization of the site will take place the week of August 19.

Samples of glazing and paint were taken from the basement windows and sent to EMSL Analytical, INC for lead and asbestos testing.

WORK PERFORMED

HPTC crew members arrived at Wirth Hall at 7:00 am Wednesday morning. Work began with the removal of window sash on the west elevation, W004 and W005. Interior stop molding was removed, tagged, and saved. Lower and upper sash were removed intact and labeled. All pulleys for upper and lower sash were removed and tagged. Plywood sheets painted white were custom cut for each opening. A 5/16" thick strip of rubber foam weather seal was applied to the perimeter of each plywood sheet and pressed up against the exterior window stop to create a weather tight seal. The plywood sheets were secured with temporary interior stop strips. Windows W001 thru W003, W006, and W016 were also removed, tagged, and plywood installed in the jamb. The exhaust fan in the lower sash of W003 was removed and reinstalled in the plywood sheet.

Existing metal grates on W002 thru W006 and W016 were removed and taken back to Jenkins shop facilities. W001 did not have an existing metal grate.

PROJECTED WORK TO BE COMPLETED NEXT WEEK

- Work on basement windows W001 – W006 and W016 at Jenkins shop facilities.
- Mobilize project site the week of August 19.

VISITORS TO THE SITE

None.

SAFETY

Crew member reviewed the project safety plan.

WEATHER

Overcast skies in the morning into the afternoon. Temperatures ranged from low to mid 70's.

PERSONNEL ASSIGNED TO THE PROJECT

2 Exhibits Specialists
1 Maintenance Workers

RECAP

Start Date:	August 5, 2013
Completion Date:	April 30, 2014
Percentage Complete:	5%
Starting Balance:	\$109, 746

/s/ Tara Hrynik
Project Leader

Cc: (electronically)

STMA: Dave Dahlen, Superintendent
Larry Moore, Acting Facility Manager

HAFE: Peter Dessauer, Historic Architect

HPTC: Robinson, McGuigan, Wigfield, Hrynik, Project file

**NATIONAL PARK SERVICE
HISTORIC PRESERVATION TRAINING CENTER (HPTC)
FINAL FIELD REPORT #2
FY – 13**

SITE: Stephen T. Mather Training Center

PROJECT: Repair Wirth Hall Basement Windows and Doorways **PMIS#:** 183498A

DATE: August 26, 2013

WEEK ENDING: August 22, 2013

GENERAL

HPTC mobilized the work site this week. All tools and materials brought to site were stored on the concrete slab by the buildings air conditioning unit as discussed at the pre-construction meeting.

Results from samples taken from the basement window glazing and paint came back from *EMSL Analytical, INC.* Paint is below the threshold for lead in paint and the glazing came back with a 2% reading of chrysotile asbestos and will be treated off site accordingly.

WORK PERFORMED

Bricked over window openings on the east elevation were opened this week. Four to five layers deep of brick courses were discovered. Whole bricks were salvaged and given to park maintenance. Remaining brick debris was removed from site and disposed.

The exterior of the emergency exit doors on the north elevation of Wirth Hall were wet scrapped and sanded to remove flaking or failing paint. The intact paint was feathered out and the double doors were primed with *Benjamin Moore* penetrating alkyd primer. The door surround and transom window were cleaned, wiped down with deglosser, and first coated with *Benjamin Moore* semi-gloss latex paint to match the existing Wirth Hall color. The exterior of the emergency door on the south elevation was in good condition; all the existing paint was intact. The door and jamb were cleaned, high spots lightly sanded, wiped down with deglosser, and two coats of *Benjamin Moore* semi-gloss latex paint were applied.

Aluminum louvered windows 007 through 009 on the west and south elevations were cleaned and windows primed and painted. *Benjamin Moore* rust converter was applied to the metal surrounds on windows 010 through 012 once free of deteriorated material.

Wood Dutchmen were made on windows 002 and 016. The wood window header on W016 was deteriorated on the left side and in need of repair. The damaged area was removed and a mahogany Dutchman was installed. The Dutchman was adhered to the existing material with the *West System* two-part epoxy. The bottom of the right window jamb and a portion of the sill on W002 consisted of dry rot and were in need of repair. The deteriorated portion was

removed and a mahogany Dutchman was installed. A combination of *SculpWood* and *West System*, both two-part epoxies, were used to install the Dutchman.

PROJECTED WORK TO BE COMPLETED NEXT WEEK

- Complete finish coats on north elevation doors
- Clean, prep, and paint doors and surrounds on the east elevation
- Continue to clean, prep, and paint windows jambs 001 through 016

VISITORS TO THE SITE

None.

SAFETY

Crew members reviewed and signed the project safety plan.

WEATHER

Sunny; Temperatures ranged from low to mid 80's.

PERSONNEL ASSIGNED TO THE PROJECT

1 Exhibits Specialist
1 Work Leader
2 Maintenance Workers

RECAP

Start Date:	August 5, 2013
Completion Date:	April 30, 2014
Percentage Complete:	10%
Starting Balance:	\$109, 746

/s/ Tara Hrynik
Project Leader

Cc: (electronically)
STMA: Dave Dahlen, Superintendent
Larry Moore, Acting Facility Manager

HAFE: Peter Dessauer, Historic Architect

HPTC: Robinson, McGuigan, Wigfield, Hrynik, Project file

**NATIONAL PARK SERVICE
HISTORIC PRESERVATION TRAINING CENTER (HPTC)
FINAL FIELD REPORT #3
FY – 13**

SITE: Stephen T. Mather Training Center

PROJECT: Repair Wirth Hall Basement Windows and Doorways **PMIS#:** 183498A

DATE: September 3, 2013 **WEEK ENDING:** August 29, 2013

GENERAL

Dean Wigfield and Tara Hrynik (HPTC) met with Dave Dahlen (STMA) and Peter Dessauer (HAFE) this week to discuss the bricked over window openings on the east elevation of Wirth Hall. The meeting was to decide how to proceed with the fabrication of the windows and jambs after the demolition of the brick wall infill. It was decided the reproduction windows would be “exhibits” and not functioning windows. There is a support wall and duct work behind each opening and to make the windows functional would not be cost effective the Park decided. The true goal is to establish the exterior façade as it was prior to the renovations in 1960’s.

Each opening will be fit with a piece of plywood, painted black, to cover the CMU blocks and exposed duct work of the interior wall. In front of the plywood, wood jambs will be installed to match the existing jambs in height, thickness, and depth. The decision was made to be consistent with the existing sash on either side of each of the openings, meaning the sash to the left of the porch will consist of six-lights and the sash on the right of the porch will consist of three-lights. The sash and jambs will be fabricated at HPTC’s Jenkins facilities.

WORK PERFORMED

The north elevation doors were completed this week. The primer was lightly sanded, doors cleaned, and two coats of *Benjamin Moore* semi-gloss latex paint were applied.

The paint prep began on the east elevation door and surround on the south east end of Wirth Hall. Loose paint was wet scraped and removed from the door surround. All surfaces were cleaned and deglosser applied. A small repair was made to the bottom of the plinth block on the right side of the doorway. *SculpWood* two-part epoxy was used to consolidate and fill the deteriorated portion of the plinth block. The transom windows and door casing were primed to provide a level painting surface. The exterior of the door, the storm door, and the door surround all received a first coat of *Benjamin Moore* semi-gloss latex paint.

At HPTC Jenkins facilities the Wirth Hall basement windows were worked on. Glazing was removed and crew members began paint removal procedures. Repairs began on W015.

PROJECTED WORK TO BE COMPLETED NEXT WEEK

- Continue to work on sash at Jenkins
- No crew on site next week

VISITORS TO THE SITE

None.

SAFETY

Crew members reviewed lead paint procedures and protocol.

WEATHER

Over cast skies, temperatures ranging in the mid to upper 80's; humid. Rain showers the majority of the day Wednesday.

PERSONNEL ASSIGNED TO THE PROJECT

1 Exhibits Specialist
2 Maintenance Workers

RECAP

Start Date:	August 5, 2013
Completion Date:	April 30, 2014
Percentage Complete:	15%
Starting Balance:	\$109, 746

/s/ Tara Hrynik
Project Leader

Cc: (electronically)

STMA: Dave Dahlen, Superintendent
Larry Moore, Acting Facility Manager

HAFE: Peter Dessauer, Historic Architect

HPTC: Robinson, McGuigan, Wigfield, Hrynik, Project file

**NATIONAL PARK SERVICE
HISTORIC PRESERVATION TRAINING CENTER (HPTC)
FINAL FIELD REPORT #4
FY – 13**

SITE: Stephen T. Mather Training Center

PROJECT: Repair Wirth Hall Basement Windows and Doorways **PMIS#:** 183498A

DATE: October 28, 2013 **WEEK ENDING:** October 24, 2013

GENERAL

Due to the Government Shutdown which took place October 1 through October 17, there was no work performed onsite or at the HPTC Jenkins facility. Work resumed onsite Monday October 21.

WORK PERFORMED

The doors on the east elevation on the south east corner of Wirth Hall were completed this week. The second coat of Benjamin Moore semi-gloss latex paint was applied.

Paint prep began on the east elevation door and surround on the north east corner of Wirth Hall. The door jamb was reattached to the brick on both sides of the opening, flaking paint was removed and all surfaces were lightly sanded and deglosser applied as needed. The door was spot primed and the exterior of the door, the storm door, and the door surround all received a first coat of Benjamin Moore semi-gloss latex paint.

Work began on the west elevation door of With Hall. Loose paint was removed and areas were spot primed. The door received a first coat of Benjamin Moore semi-gloss latex paint.

Window jambs W001 thru W016 were prepped for paint, repairs made as needed, and all received two coats of Benjamin Moore semi-gloss latex paint.

PROJECTED WORK TO BE COMPLETED NEXT WEEK

- Continue to work on sash at Jenkins
- No crew on site next week

VISITORS TO THE SITE

None.

SAFETY

Crew members reviewed the project safety plan.

WEATHER

Over cast skies, temperatures ranging in the mid to upper 50's. Freezing rain on Thursday afternoon.

PERSONNEL ASSIGNED TO THE PROJECT

1 Exhibits Specialist

2 Maintenance Workers

RECAP

Start Date: August 5, 2013

Completion Date: April 30, 2014

Percentage Complete: 25%

Starting Balance: \$109, 746

/s/ Tara Hrynik

Project Leader

Cc: (electronically)

STMA: Dave Dahlen, Superintendent

Larry Moore, Acting Facility Manager

HAFE: Peter Dessauer, Historic Architect

HPTC: Robinson, McGuigan, Wigfield, Hrynik, Project file

**NATIONAL PARK SERVICE
HISTORIC PRESERVATION TRAINING CENTER (HPTC)
FINAL FIELD REPORT #5
FY – 13**

SITE: Stephen T. Mather Training Center

PROJECT: Repair Wirth Hall Basement Windows and Doorways

PMIS#: 183498A

DATE: November 12, 2013

WEEK ENDING: November 7, 2013

GENERAL

Stainless steel flattened expanded metal and U-edging were purchased from McNichols Co. for the new basement window grates. The materials were taken to Hagerstown Metal Fabricators for construction of the stainless steel grates.

WORK PERFORMED

Windows 001 thru 016 have all been scraped, sanded, cleaned, and primed. Paint bands were established on the upper sash for future paint analysis.

Repairs have been completed on W015. A new bottom rail was fabricated; both tenons on the existing bottom rail were completely deteriorated and the rail had dry rot through the center. Dutchman repairs to the ends of both styles were made, reestablishing the mortise. Upon completion of all repairs, the sash was reassembled.

PROJECTED WORK TO BE COMPLETED NEXT WEEK

- Clean glass
- Glaze windows

VISITORS TO THE SITE

None.

SAFETY

Crew members reviewed shop safety.

WEATHER

N/A

PERSONNEL ASSIGNED TO THE PROJECT

1 Exhibits Specialist
1 Maintenance Workers

RECAP

Start Date: August 5, 2013
Completion Date: April 30, 2014
Percentage Complete: 30%
Starting Balance: \$109, 746

/s/ Tara Hrynik
Project Leader

Cc: (electronically)

STMA: Dave Dahlen, Superintendent
Larry Moore, Acting Facility Manager

HAFE: Peter Dessauer, Historic Architect

HPTC: Robinson, McGuigan, Wigfield, Hrynik, Project file

**NATIONAL PARK SERVICE
HISTORIC PRESERVATION TRAINING CENTER (HPTC)
FINAL FIELD REPORT #6
FY – 13**

SITE: Stephen T. Mather Training Center

PROJECT: Repair Wirth Hall Basement Windows and Doorways **PMIS#:** 183498A

DATE: November 18, 2013 **WEEK ENDING:** November 14, 2013

GENERAL

Work continued at Jenkins shop facilities. Temperatures were too low for the remainder of exterior site work this week.

WORK PERFORMED

Windows 001 thru 016 had the glass replaced and were glazed with Sarco glazing putty. Broken or missing glass was replaced. One light was left out of W003 to receive the existing exhaust fan in the window opening.

The pulleys removed from window jambs 002 thru 005 were cleaned this week. All paint was removed from the face plate and wheel. The faces were wire brushed clean and a coat of Rust-O-Leum Clear Lacquer was applied.

PROJECTED WORK TO BE COMPLETED NEXT WEEK

- Begin sash construction for openings W013 and W014 on the east elevation
- Apply finish coat of paint to west elevation door
- Replace center applied trim piece on west elevation door
- Make concrete sill slopes on W009, W010, and W012
- Install steel angle iron in opening W014 to support cracked header stone

VISITORS TO THE SITE

None

SAFETY

Crew members reviewed glass cutting safety

WEATHER

N/A

PERSONNEL ASSIGNED TO THE PROJECT

1 Exhibits Specialist

1 Maintenance Workers

RECAP

Start Date: August 5, 2013

Completion Date: April 30, 2014

Percentage Complete: 40%

Starting Balance: \$109, 746

/s/ Tara Hrynik

Project Leader

Cc: (electronically)

STMA: Dave Dahlen, Superintendent

Larry Moore, Acting Facility Manager

HAFE: Peter Dessauer, Historic Architect

HPTC: Robinson, McGuigan, Wigfield, Hrynik, Project file

**NATIONAL PARK SERVICE
HISTORIC PRESERVATION TRAINING CENTER (HPTC)
FINAL FIELD REPORT #7
FY – 13**

SITE: Stephen T. Mather Training Center

PROJECT: Repair Wirth Hall Basement Windows and Doorways **PMIS#:** 183498A

DATE: November 25, 2013 **WEEK ENDING:** November 21, 2013

GENERAL

A 3 inch by 4 inch angle iron was purchased from Clark Welding in Frederick, MD.

WORK PERFORMED

Work on the reproduction sash for openings W013 and W014 on the east elevation began this week. A full scale layout of each sash and jamb was made using W012 and W015 as examples. Material for the reproduction sash went through a first mill process at Jenkins shop facilities.

On site, a 3"x 4" angle iron was installed in opening W014 as a support for the cracked header stone on the east elevation. The metal was primed with Rust-Oleum zinc rich primer. The angle iron was mortared into the masonry walls by 4 inches in existing openings in each sidewall.

Concrete sill slopes were made for W009, W010, and W012 on the east elevation. Existing sills were cracked and deteriorated. Existing material was removed, the area cleaned, and new sills formed. The slopes were painted once set.

A final coat of paint was applied to the door and surround on the north corner on the east elevation. A final coat of paint was completed on the west elevation door. A replacement center batten was installed on the west elevation door. The existing batten was deteriorated and mismatched repairs on the bottom.

PROJECTED WORK TO BE COMPLETED NEXT WEEK

- Continue on sash construction for openings W013 and W014
- Paint window sash W001 thru W016

VISITORS TO THE SITE

Repair Wirth Hall Basement Windows and Doorways
Historic Structure Treatment Record

None.

SAFETY

Crew members reviewed shop tools.

WEATHER

Warmer temperatures on Monday, upper 50's. Windy and cooler temperatures the rest of the week mid to upper 40's.

PERSONNEL ASSIGNED TO THE PROJECT

1 Exhibits Specialist
2 Maintenance Workers

RECAP

Start Date:	August 5, 2013
Completion Date:	April 30, 2014
Percentage Complete:	50%
Starting Balance:	\$109, 746

/s/ Tara Hrynik
Project Leader

Cc: (electronically)

STMA: Dave Dahlen, Superintendent
Larry Moore, Acting Facility Manager

HAFE: Peter Dessauer, Historic Architect

HPTC: Robinson, McGuigan, Wigfield, Hrynik, Project file

**NATIONAL PARK SERVICE
HISTORIC PRESERVATION TRAINING CENTER (HPTC)
FINAL FIELD REPORT #8
FY – 13**

SITE: Stephen T. Mather Training Center

PROJECT: Repair Wirth Hall Basement Windows and Doorways **PMIS#:** 183498A

DATE: December 9, 2013

WEEK ENDING: December 5, 2013

GENERAL

Window jamb units for the restored openings were completed this week in the HPTC shop. The jambs and sash were assembled after the joinery was back-primed. The jambs and sash were treated with wood life, and primed with oil based primer.

WORK PERFORMED

The jamb for window opening # 013 was installed and anchored into the masonry with tap-con anchors.

All of the window sash were primed with oil based primer, then sanded and given two finish coats of latex exterior paint.

The window sash were cleaned and prepared for installation.

PROJECTED WORK TO BE COMPLETED NEXT WEEK

The window sash installation will begin. The window sash for the new window units, (W013, and W014) will receive new glass and be glazed.

VISITORS TO THE SITE

None.

SAFETY

The Project Leader reviewed the safety plan with the crew.

WEATHER

Highs in the 50's and 60's on December 4 and 5, lows in the 20'.

PERSONNEL ASSIGNED TO THE PROJECT

1 Exhibits specialist

2 maintenance workers

RECAP

Start Date: August 5, 2013

Completion Date: April 30, 2014

Percentage Complete: 70%

Starting Balance: \$109, 746

/s/ Tara Hrynik

Project Leader

Cc: (electronically)

STMA: Dave Dahlen, Superintendent

Larry Moore, Acting Facility Manager

HAFE: Peter Dessauer, Historic Architect

Mia Parsons, Archaeologist

HPTC: Robinson, McGuigan, Wigfield, Hrynik, Project file

**NATIONAL PARK SERVICE
HISTORIC PRESERVATION TRAINING CENTER (HPTC)
FINAL FIELD REPORT #9
FY – 13**

SITE: Stephen T. Mather Training Center

PROJECT: Repair Wirth Hall Basement Windows and Doorways **PMIS#:** 183498A

DATE: December 16, 2013 **WEEK ENDING:** December 12, 2013

GENERAL

The HPTC was closed on Tuesday, December 10, due to the winter storm.

Window sash installation began this week with 6 window units being completed with the exception of the steel mesh panels.

WORK PERFORMED

The following window sash were installed this week; W001, W003, W006, W012, W015, and W016.

The exterior fan vent for the elevator shaft was reinstalled on the lower sash of window # W003.

The stainless steel mesh panels were powder coated jet black by High Tech Coatings Inc.

PROJECTED WORK TO BE COMPLETED NEXT WEEK

The window sash installation will continue.

VISITORS TO THE SITE

None.

SAFETY

The Project Leader reviewed the inclement weather policy with the crew.

WEATHER

Highs in the 30's, lows in the 20'.

PERSONNEL ASSIGNED TO THE PROJECT

One Exhibits Specialist

Two Maintenance Workers

RECAP

Start Date: August 5, 2013

Completion Date: April 30, 2014

Percentage Complete: 80%

Starting Balance: \$109, 746

/s/ Tara Hrynik

Project Leader

Cc: (electronically)

STMA: Dave Dahlen, Superintendent

Larry Moore, Acting Facility Manager

HAFE: Peter Dessauer, Historic Architect

Mia Parsons, Archaeologist

HPTC: Robinson, McGuigan, Wigfield, Hrynik, Project file

**NATIONAL PARK SERVICE
HISTORIC PRESERVATION TRAINING CENTER (HPTC)
FINAL FIELD REPORT #10
FY – 13**

SITE: Stephen T. Mather Training Center

PROJECT: Repair Wirth Hall Basement Windows and Doorways **PMIS#:** 183498A

DATE: January 6, 2014

WEEK ENDING: January 2, 2014

GENERAL

This weekly covers the period of December 23, 2013- January 2, 2014.

All project work is completed except for the re-pointing of window unit # W-14 and the installation of 3 metal screens.

A final meeting inspection will be scheduled.

WORK PERFORMED

The following window sash were installed these past 2 weeks; W13, and W14.

A new door sweep was installed on door # D-6.

A new door threshold was installed on door unit # D-2.

Stainless steel, (powder coated black) metal screens were installed over 12 window units.

PROJECTED WORK TO BE COMPLETED NEXT WEEK

The re-pointing of window unit # W-14 will be completed as weather allows. The 3 metal screens will be installed in the next 2 weeks.

VISITORS TO THE SITE

None.

SAFETY

The Project Leader reviewed the inclement weather policy with the crew.

WEATHER

Highs in the 30's, lows in the 20'.

PERSONNEL ASSIGNED TO THE PROJECT

Two maintenance workers

RECAP

Start Date:	August 5, 2013
Completion Date:	April 30, 2014
Percentage Complete:	92%
Starting Balance:	\$109, 746

/s/ Tara Hrynik
Project Leader

Cc: (electronically)

STMA: Dave Dahlen, Superintendent
Larry Moore, Acting Facility Manager

HAFE: Peter Dessauer, Historic Architect
Mia Parsons, Archaeologist

HPTC: Robinson, McGuigan, Wigfield, Hrynik, Project file

Material Data and Vendors

MATERIALS SUPPLIERS

C.T. Paint Center
99 Cary Lu Circle/Ste. 100
Harpers Ferry, WV 25425
304-728-66556

18 oz. Dirtex spray, alkyd metal primer (white), a quart of crown liquid sander degloss, Regal select exterior soft gloss P/B (mather cream), Regal semi-gloss finish medium BS (custom gray)

Home Depot
5517 Urbana Pike
Frederick, MD 21704
301-620-0571

General materials and supplies: duct tape, buckets, Makita ½" 18v impact driver/drill kit, Husky 2 ton trolley jack, PPE

High Tech Coatings Inc.
7806 Old National Pike
Boonsboro, MD 21713
301-432-7500

Blast, prime & powder coat stainless steel mesh panels with angle frame with Jet Black

McNichols Co.
2 Home News Row
New Brunswick, NJ 08901
800-237-3820 (x6647)

McNichols quality U edging, stainless steel type 304, 16 gauge, type 402, 1/8" opening, piece 1" width x 120" length

Hagerstown Metal Fabricators
901 Pope Ave.
Hagerstown, MD 21740
301-790-1815

Cut and re-weld screens

Clark Welding & Fabricating Co., Inc.
5843 Urbana Pike
Frederick, MD 21704
301-694-6161