

PRESERVATION AND REPAIR OF THE WINDOWS AND DOORS OF THE CURTIS FREEWILL BAPTIST CHURCH

**HARPERS FERRY NATIONAL HISTORICAL
PARK**

HARPERS FERRY WEST VIRGINIA

**HISTORIC STRUCTURES RECORD OF
TREATMENT**



HISTORIC PRESERVATION TRAINING CENTER

**Department of Interior
National Park Service
4801A Urbana Pike
Frederick, MD 21704**

Preservation and Repair of the Windows and Doors of the Curtis Freewill Baptist Church

Harpers Ferry National Historical Park
FY-2006

HISTORIC STRUCTURES RECORD OF TREATMENT

INDEX

I. COMPLETION REPORT

1. [Accounting](#)
2. [Narrative](#)
3. [Selected Photographs](#)

II. PROJECT HISTORY

1. [Project Agreement](#)
2. [Compliance Data](#)
3. [Correspondence](#)
4. [Weekly Reports](#)
5. [Material Data/Vendors](#)
6. [Field Drawings](#)
7. [Safety](#)
8. [Miscellaneous](#)

III. APPENDIX

1. Additional Photographs (Provided on CD-ROM)

Accounting

PMIS Completion Report Accounting

Account	Amount Obligated	Revised Estimate
3064-2604-MCL	\$145,413.00	

Component Completion Report for project:__ Preservation and Repair of the Windows and Doors of the Curtis Freewill Baptist Church, FY06

Component Account Costs By Budget Object Class (based on AFS3):

Account	Personal Service Cost	Travel Cost	Contract Work Cost	Contract Number	Supply Cost	Equipment Cost	Other Cost	Total Cost By Account
	89,324.00			14,766.00		5,000.00	36,363.00	145,453.00
Total Component Account Cost								

Narrative

Narrative Statement

Preservation and Repair of the Windows and Doors of the Curtis Freewill Baptist Church Harpers Ferry National Historical Park FY-2006

Work Order # 3064-2604-MCL

Project Narrative

Project History

Built in 1897, the Curtis Freewill Church is a monument to black history at Harpers Ferry. Architecturally, it is a significant component of the Storer College and Park Campus historical landscape. Constructed primarily of brick upon a rubble stone foundation, the church occupies a sizable footprint. The church has a corner entrance bell tower, stained glass fenestrations, various sized arched windows and louvers, a slate roof, and a distinctive double doorway with stone steps.

This project follows the work performed in 2004 on the bell tower and the much needed repairs to the slate roof completed in 2005. The window and door preservation project was developed from the PMIS statement prepared by HAFE Historical Architect Peter Dessauer. The majority of the repairs required can be attributed to several causes, most notably the weather, the environment, and wear and tear on the structure.

Description of Project

This portion of the project focused on the repairs to the 13 historic double hung sash windows on the first floor, two historic lunette windows on the first floor, the 12 replacement windows in the basement level, and the two wood doors located on the south elevation at the basement level.

On the first floor windows the following tasks were completed:

- Removed sash and installed temporary enclosures
- Scraped lead paint down to bare wood
- Removed glazing and stained glass
- Completed carpentry repairs with epoxy consolidation and/or dutchman repairs
- Replaced any broken or cracked glass
- Reglazed sash with linseed oil putty
- Scraped exterior jambs down to bare wood and completed necessary carpentry repairs

- Painted interior and exterior of sash
- Painted exterior jambs
- Refurbished historic hardware
- Installed sash with new sash cord, upper fixed and lower operable

Basement level tasks addressed:

- Replacement vinyl windows were not addressed
- Deteriorated paint on jambs and trim was removed
- Completed necessary carpentry repairs with epoxy consolidation and/or dutchman repairs
- Prepped and painted exterior jambs and trim
- Scraped deteriorated paint from two exterior doors
- Completed any necessary carpentry repairs to doors with epoxy consolidation
- Prepped and painted doors

The project commenced in December of 2005 and was completed in May of 2006.

Clearance

Section 106 Clearance for this project was granted through the Categorical Exclusion Form and the Programmatic Exclusion Form signed and dated by the Park in September of 2004.

Summary of Work

Before any on-site work was initiated air monitoring of lead dust levels was performed the week of November 14, 2005 due to the positive findings of lead based paint in the Hazardous Material Survey conducted by HAFE. Two HPTC employees were monitored during typical scraping and sanding tasks. The tests determined <0.5 micrograms of lead dust per cubic meter of air. In the process of the lead dust air monitoring it was recommended that the glazing compound be tested for asbestos. A representative sample was taken from one of the sash and testing identified chrysotile asbestos >1%. Air monitoring of two employees removing the glazing was then performed at the Jenkins Lead Facility. The testing determined no identifiable asbestos fibers were in the air.

Starting the week of December 6, 2005, the site was mobilized and additional planks and sidearms were installed on the existing scaffold. Materials and tools were transported to the site and stored in a job box located on site.

All window sash were then removed from the main floor on all elevations. A second story lunette window had previously been removed. Plywood enclosures were secured in the openings to provide a weather tight seal. Polyethylene sheeting was laid on all floor surfaces to collect any debris/paint chips and the interior was thoroughly vacuumed after all window units were removed. Two of the plywood enclosures were replaced, one on the south and one on the north elevation, with plexiglass panels to allow sunlight. Polyethylene sheeting was then taped on the interior of the first floor windows units. Geotextile fabric was laid on the exterior ground surface along all elevations to collect any debris and paint chips.

After all windows and jambs were inspected to determine existing conditions and any necessary repairs and/or replacement were documented, wet scraping of the window jambs, headers, sills and trim on the first floor north elevation began. The paint was misted with water and scraped to a paintable surface. During the course of wet scraping, it was determined that the paint was in worse condition than initially assessed. As a result, it was decided that heat guns would be used on the first floor windows versus the wet scraping method to remove all deteriorated and alligatored surfaces and prevent any subsequent paint failure.

After the completion of scraping each day, the window openings and surrounding areas were vacuumed with a hepa-vac to collect any loose lead dust and paint chips. The plywood and plexiglass enclosures were reinstalled and the interior floors vacuumed with a hepa-vac.

The removed sash were moved to the Lead Abatement Suite at our Jenkins facility to remove the glazing compound and lead paint. Specific protocols were developed and followed for removal of the asbestos containing material. The glass was numbered before removal to correspond with matching drawings to ensure accurate re-setting. Several pieces of glass were cracked or broke on removal. The damaged pieces were documented and set aside for replacement with in-kind material

All lead abatement protocols outlined in the Project Safety Plan were followed during the course of the lead abatement. The lead paint was removed using a mix of the steamer unit, heat guns and hand tools. A 2" wide paint band was left on several of the sash to allow for future paint analysis. Location of the paint bands are identified on the sash treatment drawings. After scraping was completed, sanding began. Flat surfaces were sanded with an orbital sander and profiled surfaces were completed by hand. The windows were then washed down with a TSP solution.

Carpentry repairs were then completed. Seventeen of the sash and one of the lunette windows required carpentry repairs that consisted of dutchman repairs, consolidation repairs and/or re-sprigging. The remaining units required minor fill or epoxy repairs. All dutchman repairs were completed using mahogany. Consolidation repairs were completed with West System epoxy and/or Timberflex. Stainless steel 6d sprigs were used in re-sprigging. The locations of all the repairs were documented on field drawings.

All sanding of the repairs was completed and the stained glass was then dry-fitted in each sash to ensure a proper fit. Any necessary adjustments were made and the sash were then primed with an alkyd primer. Replacement panes of stained glass matching in color and texture were ordered from Paul Wissmach Glass Co. of Paden City, WV and cut to size. Where possible, historic glass was reused in the smaller openings. The location of all replacement glass was documented on field drawings.

After inspecting the existing lead came, it was determined that the all of the lead was deteriorated and required replacement. The 16 corner lights with the bulls-eye design were sent out to a stained glass contractor and new came were installed.

Glazing then began on the sash with linseed oil putty. All openings were first back bedded with putty. After the glass was fitted, the panes were secured with diamond points and the face glazing applied. All excess glazing was removed and the sash stored to allow the glazing to set up.

A stress fracture was noted in one of the larger etched panes on the east elevation before installation. All attempts were made to handle with necessary care but unfortunately, the glass cracked. As it was a clean break and it is one of the more significant panes, repair was decided as the best option. The contractor stated that the crack had been repaired with glue using an ultraviolet curing process. However, she stated that the panel was extremely fragile and several others cracks and striations were apparent. In particular, there were two cracks that had not broken through yet but there was a high probability that they could. She stated that the glass was very thin and the method of sandblasting originally utilized to create the etching should not have been used on such a thin pane resulting in a very fragile piece of glass. When the glass was moved by the contractor to prepare for transportation back to HPTC, the pane broke into three sections, along the original crack and along one of the cracks that the contractor pointed out. The contractor attempted to repair it again, but due to the quality of the glass was unsuccessful. A replacement glass piece was ordered matching the original in color and texture and was sandblasted by the contractor to match the original in design.

Scraping the lead paint to bare wood with heat guns was completed on the exterior window jambs and trim on the first floor windows. Carpentry repairs were then completed to the first floor and basement level jambs, trim and sills. Deteriorated wood was consolidated using the West system epoxy and/or dutchman repairs where necessary. All dutchman repairs were completed with mahogany.

After sanding all repairs, the jambs were primed with an alkyd primer and finished with two coats of exterior latex paint. The sash were also primed with an alkyd primer and painted with two coats of latex paint, white on the exterior, cream on the interior. The interior color was color matched to match the existing paint.

Installation of the window sash then began. The upper sash were fixed in place and lower sash hung with 3/8" sash cord and the original pulleys and weights. Several of the sash

were not wide enough to fit snugly in the jambs (an original detail), making opening and closing the lower sash difficult. Wooden strips were attached to the stiles on those sash to allow for easier movement.

The windows were then cleaned and stick inserts painted to match the interior sash were installed in all of the sash except for W205 and W207 due to their arched shape. The inserts were installed to prevent the opening of the lower sash from the exterior due to the lack of hardware (original detail). Lastly, the two basement entry doors were prepped and painted with exterior latex paint.

All materials and supplies were then removed and the site cleaned of debris.

Selected Photographs



Photo 1: First floor sash were removed and temporary enclosures were installed

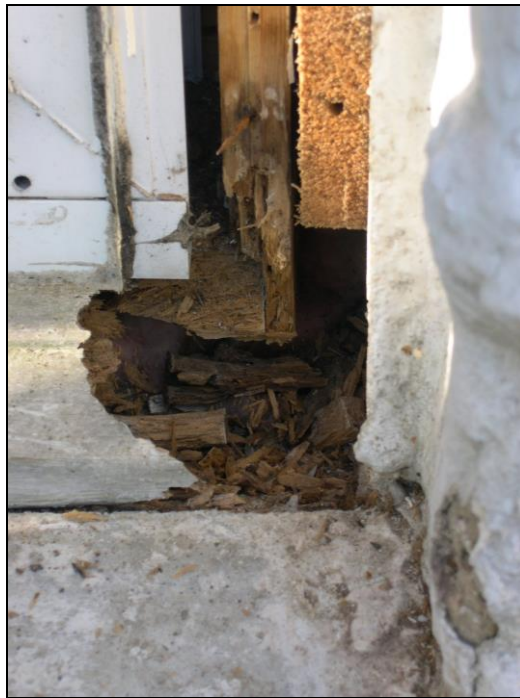


Photo 2: Deteriorated components were documented



Photo 3: Lead paint being scraped from the sash at our Jenkins facility



Photo 4: Carpentry repairs to the west elevation lunette



Photo 5: Glazing the sash



Photo 6: Scraping paint from the window jambs



Photo 7: Painting the sash



Photo 8: Installing the east elevation windows

Project Agreement



FINAL PROJECT AGREEMENT

Preservation and Repair of the Windows and Doors of
the Curtis Freewill Baptist Church

Phase II

HAFE Package 416/PMIS 99680

HARPERS FERRY NATIONAL HISTORICAL PARK
Harpers Ferry, WV

September 12, 2005

RECOMMENDED: *[Signature]* DATE: 9/15/2005
SUPERINTENDENT, HISTORIC PRESERVATION TRAINING CENTER

CONCURRED: *Peter F. Dorman* DATE: Oct. 3, 2005
STAFF ARCHITECT, HARPERS FERRY NATIONAL HISTORICAL PARK

APPROVED: *Donald Campbell* DATE: 10.3.05
SUPERINTENDENT, HARPERS FERRY NATIONAL HISTORICAL PARK

Submitted by:

National Park Service
Historic Preservation Training Center
4801 A Urbana Pike
Frederick, MD 21704

I. DESCRIPTION OF THE PROJECT

The Curtis Freewill Baptist Church is located within Harpers Ferry National Historical Park in Harper's Ferry, West Virginia. This project follows the work performed on the bell tower and the much needed repairs to the slate roof.

This window and door preservation project was developed from the PMIS statement prepared by HAFE Historical Architect Peter Dessauer. The majority of the repairs required can be attributed to several causes, most notably the weather, the environment, and wear and tear on the structure. The preservation activities will focus on the preservation of the historic window sash and doors.

II. SCOPE OF THE PROJECT

The following are the descriptions of the tasks to be completed at Curtis Freewill Baptist Church. Personnel from the Historic Preservation Training Center will serve as the preservation specialists to complete all tasks associated with the project.

TASK: #1 – Scaffolding and Site Protection

Scaffolding that was erected for the roofing phase of the preservation of the Curtis Freewill Church will be left for the masonry and the window/ door projects. Visitor access to the area will be restricted during the project. The HPTC will set up barricades as necessary to prevent visitors from entering the work site. Scaffolding will be removed by the HPTC at the end of the window/door phase.

Egress will be maintained under scaffold if it obstructs the primary entrance/exit route. Other site issues and logistics will be addressed at the Preconstruction Meeting.

TASK: #2 – Mobilization and Interior Building Protection

Tools and materials will be transported to the site and the interior floor and furnishings of the church will be protected by canvas coverings.

TASK: #3 – Repairs to Windows

3a - Repair 13 Historic Stain Glass Windows on Main Floor – Scrape paint from jambs and surrounding trim to a paintable surface. Lead abatement protocols will be followed during the course of the project as outlined in the Project Lead Abatement Safety Plan. Make any necessary carpentry and/or epoxy repairs to jambs and trim components. All carpentry repairs will be completed with mahogany. Remove the historic sash from their openings and transport

them back to HPTC for preservation. The paint will be scraped to bare wood on the historic sash and the stained glass removed for back-bedding and re-glazing. If the glass cannot be removed without breakage in the HPTC stream paint stripper, only the deteriorated glazing will be removed and repaired. The openings will be sealed with temporary closures. The upper sash will continue to be fixed in place; the sash cord on the lower sash will be reattached to weights with new sash cord. The lower sash will also be fitted with brass weather stripping. If required, any broken stained historic glass will be replaced with an appropriate stained glass that matches the existing material. All wood will be treated with a mildewcide before painting. Sand, prime and finish repaired sash and surrounding trim with two coats of exterior paint. Provide and install new window hardware as necessary. Clean windows and glass. (Total 13 historic stained glass windows)

3b – Paint Trim on Ground Floor Replacement Windows - Scrape paint from surrounding trim to a paintable surface. Lead abatement protocols will be followed during the course of the project as outlined in the Project Lead Abatement Safety Plan. Make any necessary carpentry and/or epoxy repairs to exterior trim. All carpentry repairs will be completed with mahogany. NOTE: No work will be performed on the replacement windows or the storm windows.

3c – Repair 2 Ground Floor Windows on East Elevation - Scrape paint from windows and surrounding trim to a paintable surface. Lead abatement protocols will be followed during the course of the project as outlined in the Project Lead Abatement Safety Plan. Make any necessary carpentry and/or epoxy repairs to sash, frame and exterior trim. All carpentry repairs will be completed with mahogany. If removal of units is necessary, the openings will be sealed with temporary closures. If required, any deteriorated historic glass will be replaced with an appropriate Bendheim glass that matches the existing material. Also, any deteriorated weather-stripping will be replaced as necessary. All wood will be treated with a mildewcide before painting. Sand, prime and finish repaired sash and surrounding trim with two coats of exterior paint. Clean windows and glass.

Task: #4 – Repair 2 Doors

5a – Repair 2 Door Units - Scrape paint from doors and jambs to a paintable surface. Lead abatement protocols will be followed during the course of the project as outlined in the Project Lead Abatement Safety Plan. Make any necessary minor carpentry and epoxy repairs to door or frame. All carpentry repairs will be completed with mahogany. Deteriorated weather-stripping will be replaced as necessary. All wood will be treated with a mildewcide before painting. Sand, prime and finish with two coats of exterior paint. Restore and refinish or supply new door hardware. (Total 2 doors).

NOTE: All preservation work performed by the Historic Preservation Training Center will comply with the Secretary of the Interior's Standards for the Treatment of Historic Properties.

III. STRUCTURE DESCRIPTION

Built in 1897, the Curtis Freewill Church is a monument to black history at Harpers Ferry. Architecturally, it is a significant component of the Storer College and Park Campus historical landscape.

Constructed primarily of brick upon a rubble stone foundation the church occupies a sizable footprint. The church has a corner entrance bell tower, stained glass fenestrations; various sized arched windows and louvers, slate roof, and a distinctive double doorway with stone steps.

IV. DATA COLLECTION

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

V. COMPLIANCE

Section 106 clearance is covered under the Programmatic Agreement among Harpers Ferry National Historical Park, The Advisory Council on Historic Preservation and the West Virginia State Historic Preservation Office Regarding 1996 Flood / Storm Recovery Efforts. Any other necessary compliance requirements will be the responsibility of the Park.

VI. 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:

- 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's preservation team.
 - Conduct preconstruction, 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.

Provide crafts people, tools, and materials to perform all construction activity outlined in Section VII, Products.

Provide weekly reports on project progress and activities to Park.

Provide proper disposal facilities for and periodic collection of all construction debris and lead waste associated with this project.

Maintain site and cut the grass within construction boundaries on a weekly basis.

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.

Provide for visitor access and protection while the project is ongoing.

Maintain work and staging area according to OSHA Regulations and Guidelines.

Provide some form of debris netting to contain and collect construction debris.

Prepare and provide to the Park a mobilization plan, a detailed schedule, and a safety plan.

HAFE: 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 three parking spaces in the parking lot adjacent to the building.

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 public toilet facilities for the duration of the project.

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

Designate a single administrative contact. (refer to the Project Team section)

The HPTC and HAFE will determine matters regarding site-related issues (access, closures, signing, 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 regarding 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 HAFE 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.

VII. 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 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.

This HAFE 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 Program.

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 conducted in accordance with OSHA regulations – 29 CFR Part 1926.

VIII. PRODUCTS

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

1. Completion of preservation tasks as detailed in Section II of this Project Agreement.
2. The HPTC shall prepare a Record of Treatment for this project in accordance with the NPS Director'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 with 2 Historic Structure Record of Treatment 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 images to the HPTC Deputy Superintendent, the designated Project Leader, the Regional Office, the Harpers Ferry Center Library and the DSC Technical Information Center

IX. ESTIMATED SCHEDULE

Draft Project Agreement:	August 25, 2005
Project Start Date:	November 1, 2005
Project Completion Date:	July 31, 2006
Distribute Project Record:	September 29, 2006

X. COST ESTIMATE

Task: #1 Scaffolding and Site Protection

LABOR	
Craftsperson 40 hrs @ \$33.98/hr.	1,359
MATERIALS	
	0
SUBTOTAL	1,359

Task: #2 Mobilization and Interior Building Protection

LABOR	
Craftsperson 40hrs @ \$33.98/hr	1,359
MATERIALS	
Canvas, plastic, lumber, etc.	450
SUBTOTAL	1,809

Task: #3a Repair 13 Historic Stained Glass Windows on Main Floor

LABOR	
Craftsperson 2000hrs @ \$33.98/hr	67,960
MATERIALS	
Epoxy, consolidants, putty, paint, Glass, etc.	5,500
SUBTOTAL	73,460

Task: #3b Paint Trim on Ground Floor Replacement Windows

LABOR

Craftsperson 98hrs@ \$33.98/hr	3,330	
MATERIALS		
Epoxy, consolidants, primer, paint, etc.	200	
SUBTOTAL		3,530

Task: #3c Repair 2 Ground Floor Windows on East Elevation

LABOR		
Craftsperson 40hrs@ \$33.98/hr	1,359	
MATERIALS	150	
Epoxy, consolidants, putty, misc. lumber, primer, paint, etc		
SUBTOTAL		1,509

Task: #4 Repair 2 Door Units

LABOR		
Craftsperson 240 hrs @ \$33.98/hr	8,156	
MATERIALS		
Epoxy, lumber, paint, etc.	1,000	
SUBTOTAL		9,156

Project Related Costs

Supervision	10,000	
Tool Maintenance	2,067	
R.O.T. reproduction costs	1,200	
Vehicle Costs	5,000	
SUBTOTAL		18,267

Cost Summary

TASK #1 SUBTOTAL	1,359
TASK #2 SUBTOTAL	1,809
TASK #3.a SUBTOTAL	73,460

TASK #3.b SUBTOTAL	3,530
TASK #3.c SUBTOTAL	1,509
TASK #4 SUBTOTAL	9,156
<u>Project Related Costs</u>	<u>18,267</u>
SUBTOTAL	109,090
<u>HPTC Overhead</u>	<u>36,363</u>
TOTAL	145,453

NOTE: HPTC's salaries are calculated on a pay period basis. 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.

XI. PROJECT TEAM

HPTC: Chris McGuigan, Project Supervisor
Dean Wigfield, Project Leader

HAFE: Peter Dessauer, Park Architect

XII. 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's staff, program participants, and Park personnel to appropriate project duties.

-END-

Compliance

Categorical Exclusion Form

Harpers Ferry National Historical Park

P.O. Box 65

Harpers Ferry, WV 25425

Project: Compliance # 04-028 **ROOF AND EXTERIOR REPAIRS / FREEWILL BAPTIST CHURCH**

Describe project, including location (reference the attached Environmental Screening Form, if appropriate):

This project requests to repair the slate roof and other exterior features such as doors, windows, and brick chimneys, walls, foundation, gutter systems and painting. The project will be conducted mostly by the Historic Preservation Training Center (HPTC) and partially by Harpers Ferry employees. To complete this project vegetation clearance, staging, scaffolding along with special protection will need to be performed first. Demolition will follow, consisting of removal of slate roof, areas of rotten wood, dismantle two brick chimneys.

Approximately 3250 square feet of roof will receive new felts, water shield, flashing, slates and sealants. Fabrication of new steel brackets with snowboards will be installed. Two chimneys on the Northeast and Southwest corners will be rebuilt and new flashing installed. Doors and Windows will receive epoxy repairs, Dutchman repairs, replacement parts and painting. Exterior lights and door locking systems will be installed.

Evidence shows that hazmat issues concerning asbestos and lead based paint are manageable. This project should not cause any adverse affect to the natural resources.

Describe the category used to exclude action from further NEPA analysis and indicate the number of the category:

NPS 12, Section 3.4 C (4) "Routine maintenance and repairs to cultural resource sites, structures, utilities, and grounds if the action falls under an approved Historic Structures Preservation guide or Cyclic Maintenance Guide, or if the action would not adversely affect the cultural resource."

Indicate whether an Assessment of Effects Form is needed/not needed:

An Assessment of Effects Form is required for this project.

Describe any public or agency involvement effort conducted (reference the attached ESF):

The State Historic Preservation Office (SHPO) will be contacted for approval.

On the basis of the environmental impact information in the statutory compliance file, with which I am familiar, I am categorically excluding the described project from further NEPA analysis. No exceptional circumstances (e.g. all boxes in the ESF are marked "no") or conditions in section 3-6 apply, and the action is fully described in section 3-4 of NPS-12.

<u>Signed</u>	<u>Superintendent</u>	
Superintendent or designee	Title	Date

L:\DATA\Park Compliance\Projects\Completed CX forms\2003\cx form 04-028.doc

Programmatic Exclusion Form
Harpers Ferry National Historical Park
P.O. Box 65
Harpers Ferry, WV 25425

Project: # 04-028 Repair the Curtis Freewill Baptist Church Roof and Exterior, Phase I

Describe project, including location (reference the attached Assessment of Effect Form, if appropriate) The project involves the replacement of approximately 30% of the roofing slates and replacement of the snow board and gutter systems and rebuilding two masonry chimneys. Repairs also include three gable end windows, wood soffits and cornices, roof flashings, hazmat precautions and painting.

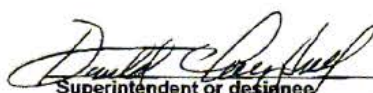
Describe the category used to exclude action from further Section 106 analysis and indicate the number of the category: The proposed project will have "no effect" on cultural resources and is considered a programmatic exclusion under the 1995 Nationwide Programmatic Agreement among the National Park Service, the Advisory Council and the National Conference of State Historic Preservation Officers. The project is excluded under Part IVB, No. 9 "rehabilitation work limited to actions for retaining and preserving, protecting and maintaining, and repairing and replacing in kind materials and features, consistent with the Secretary of the Interior's Standards for Rehabilitation and the accompanying guidelines." Members of the Park compliance committee reviewed the project and no further clearance is necessary.

Indicate whether an Assessment of Effects form is needed/not needed:
Not needed, the documentation for the section 106 exclusion of this project is on file at HAFE.

Recommended By:


Section 106 Coordinator Supervisory Archeologist Title 9/29/04 Date

Approved By:


Superintendent or designee Superintendent Title 9/29/04 Date

Correspondence



United States Department of the Interior

NATIONAL PARK SERVICE
Historic Preservation Training Center
4801A Urbana Pike, Gambrill House
Frederick, MD 21704-7307



October 24, 2005

Memorandum

To: Superintendent, Historic Preservation Training Center

From: Project Leader, Woodcrafting Section, HPTC

Through: Section Chief Woodcrafting, Historic Preservation Training Center

Re: Exterior Preservation and Repair of the Windows and Doors of the Curtis Freewill Baptist Church / Preservation & Repair of the Exterior Masonry Envelope of the Curtis Freewill Baptist Church; PMIS 99680
Harpers Ferry National Historical Park

Subject: Preconstruction Meeting Minutes

The preconstruction meeting was held on Monday, October 24, 2005 at 11:00 am at Curtis Freewill Baptist Church in Harpers Ferry. The following people were in attendance:

Peter Dessauer, HAFE Architect
Mike Castagnetto, HAFE Facility Manager
Dennis Frye, HAFE Chief Cultural Resources Management/Interpretation
Christopher McGuigan, HPTC Project Supervisor Woodcrafting
Sharon Feeney, HPTC Project Leader Woodcrafting
Christopher Robinson, HPTC Project Supervisor Masonry
Moss Rudley, HPTC Project Leader Masonry

The meeting agenda included the typical administrative concerns related to the operation of the project including:

- Office space will be available at the HPTC Shop. A cell phone will be available on site.
- Restroom facilities will be available in the ground floor break room. Employees will keep the area clean of debris daily.
- Electrical power will be available at the Church.
- Limited water will be available from the break room at ground level. 55 gallon drums will be required on site to store more water if necessary.
- HAFE will provide HPTC with two keys for the church and break room doors and the alarm code if necessary.
- Lead Abatement protocols will be followed during the course of the project. A copy of the HPTC Lead Abatement Plan in addition to the Project Safety Plan will be provided to the Park.
- Barricades and safety fence will be utilized as necessary to ensure visitor safety.
- Materials storage will be in a job box stored next to the building inside the fenced area.
- Two to three parking spaces will be provided in the lower parking area adjacent to the building. Street parking is also available.
- HPTC vehicles will contain vehicle I.D.
- Judy Coleman and Catherine Bragaw will be notified in advance of window removals and door closures. Schedules will be coordinated to accommodate site events.
- Plexiglass will be used on several of the temporary window enclosures to allow light into the building.
- Paint will match existing colors. A 2" band will be left intact when scraping for possible future paint analysis.
- In the event of an accident or emergency situation, HPTC will call 911. Accident forms will be filled out by HPTC with copies forwarded to HAFE.
- The work schedule will be 6:00 am to 4:30 pm, Monday through Thursday (this includes commuting time to and from the site).
- The project will commence on or about November 21, 2005 and has a projected completion date of July 27, 2006.

The meeting adjourned at approximately 12:00 pm. HPTC and HAFE personnel agreed to continue communication to ensure the successful completion of this project. If there are any questions or concerns regarding this project please contact Sharon Feeney or Chris McGuigan at 301-698-5784.

Sharon Feeney
Project Leader

cc:

Don Campbell, HAFE Superintendent
Mike Castagnetto, HAFE Facility Manager
Catherine Bragaw, HAFE
Judy Coleman, HAFE
Peter Dessauer, HAFE Architect
Jennifer Flynn, HAFE Ranger
Dennis Frye, HAFE Chief CRM/Interpretation
Richard Trott, HAFE Maintenance Supervisor

bcc: McGrath/Hicks, HPTC
McGuigan, HPTC
Robinson, HPTC
Rudley, HPTC
Feeney, HPTC
Project, HPTC



United States Department of the
Interior

NATIONAL PARK SERVICE

Historic Preservation Training Center
4801A Urbana Pike



IN REPLY REFER TO:

May 22, 2006

Memorandum

To: Superintendent, Historic Preservation Training Center

From: Project Leader, Woodcrafting Section, HPTC

Re: Preservation and Repair of the Windows and Doors of the
Curtis Freewill Baptist Church, Phase II

Subject: Final Inspection Meeting Minutes

The subject meeting was held on Monday, May 22nd at 1:00pm at the Curtis Freewill Baptist Church. The following persons were in attendance:

Michael Castagnetto, Facilities Manager, HAFE
Richard Trott, Maintenance Supervisor, HAFE
Dean Wigfield, Project Supervisor, HPTC
Sharon Feeney, Project Leader, HPTC

The various tasks completed under this phase of the project were inspected by the Park. The tasks included scraping lead paint from the first floor window jambs and sash, repairing any deteriorated wood components, replacing all deteriorated lead comes, replacing any broken or cracked stained glass, reglazing all of the sash, priming and painting the jambs and sash, painting the basement level window trim, and repairing, prepping and painting the two basement level entry doors. The following items were noted during the inspection:

- Install screws in the east elevation windows to prevent entry until the Park determines an appropriate security measure.
- Adjust interior stops on all loose windows to prevent rattling.

HPTC will complete the above noted items within the next week.

A Record of Treatment will follow, documenting of all the work performed under this phase of the project. If there are any questions or concerns, please contact Dean Wigfield or Sharon Feeney at (301)698-5784.

Sharon Feeney
Project Leader

cc:

Don Campbell, Superintendent, HAFE
Michael Castagnetto, Facility Manager, HAFE
Peter Dessauer, Architect, HAFE
Richard Trott, Maintenance Supervisor, HAFE
Dennis Frye, Chief CRM/Interpretation, HAFE
Jennifer Flynn, Chief Ranger, HAFE
Catherine Bragaw, HAFE
Judy Coleman, HAFE

bcc: (electronically)

McGrath; HPTC
Hicks; HPTC
McGuigan; HPTC
Wigfield; HPTC
Feeney, HPTC
Project; HPTC

Weekly Reports

**NATIONAL PARK SERVICE
HISTORIC PRESERVATION TRAINING CENTER (HPTC)
WEEKLY FIELD REPORT #1
FY-05**

PARK: Harpers Ferry National Historical Park, Harpers Ferry, WV

**PROJECT: Preservation and Repair of the Windows and Doors of the Curtis
Freewill Baptist Church Phase II
HAFE Package 416/PMIS 99680**

DATE: December 12, 2005

WEEK ENDING: December 9, 2005

GENERAL

Due to the positive findings of lead based paint in the Hazardous Material Survey conducted by HAFE, air monitoring of lead dust levels was performed on site the week of November 14, 2005. Two HPTC employees were monitored during typical scraping and sanding tasks. The tests determined <0.5 micrograms of lead dust per cubic meter of air.

WORK PERFORMED THIS WEEK

The site was mobilized and additional planks and sidearms were installed on the existing scaffold. Materials and tools were transported to the site and stored in a job box located on site.

All window sash were removed from the main floor on all four elevations. A second story lunette window had previously been removed. Plywood enclosures were secured in the openings to provide a weather tight seal. Polyethylene sheeting was laid on all floor surfaces to collect any debris/paint chips and the interior was thoroughly vacuumed after all window units were removed.

PROJECTED WORK FOR THE UPCOMING WEEK

Wet scraping of the window jambs, headers, sills and trim will begin. The paint will be removed to a paintable surface on the exterior only. All window openings will be covered with polyethylene sheeting from the interior as well as the floors to limit lead dust. Geo-textile fabric will be laid on the exterior ground surfaces surrounding the perimeter of the building to collect any debris and paint chips.

VISITORS TO THE SITE

Peter Dessauer, HAFE

SAFETY

The HPTC Safety Plan was reviewed and all potential job hazards discussed. The Lead Compliance Plan was also reviewed, outlining all protocols to be followed during lead abatement both on site and at the Jenkins facility

WEATHER

Cold, Sunny

PERSONNEL ASSIGNED TO THE PROJECT

Three Maintenance Workers
One Exhibits Specialist

RECAP

Start Date:	November 28, 2005
Completion Date:	July 31, 2006
Percentage Completed:	5%
Starting Balance:	\$145,484.00

Sharon Feeney
Project Leader

cc: (electronically)
Don Campbell, Superintendent, HAFE
Michael Castagnetto, Facility Manager, HAFE
Peter Dessauer, Architect, HAFE
Richard Trott, Maintenance Supervisor, HAFE
Dennis Frye, Chief CRM/Interpretation, HAFE
Jennifer Flynn, Chief Ranger, HAFE
Catherine Bragaw, HAFE
Judy Coleman, HAFE

**NATIONAL PARK SERVICE
HISTORIC PRESERVATION TRAINING CENTER (HPTC)
WEEKLY FIELD REPORT #2
FY-05**

PARK: Harpers Ferry National Historical Park, Harpers Ferry, WV

**PROJECT: Preservation and Repair of the Windows and Doors of the Curtis
Freewill Baptist Church Phase II
HAFE Package 416/PMIS 99680**

DATE: December 19, 2005

WEEK ENDING: December 15, 2005

GENERAL

No work was performed on 12/15/05 due to the weather and an all-employee meeting.

In the process of the lead dust air monitoring it was recommended that the glazing compound be tested for asbestos. A representative sample was taken from one of the sash and testing identified chrysotile asbestos >1%. Air monitoring of two employees removing the glazing was then performed at the Jenkins Lead Facility. The testing determined no identifiable asbestos fibers were in the air.

WORK PERFORMED THIS WEEK

All windows were inspected to determine existing conditions and any necessary repairs and/or replacement. All three sills on the east elevation first floor will require replacement. Two of the sills were removed and brought back to the Jenkins facility.

Two of the plywood enclosures were removed, one on the south and one on the north elevation, and plexiglass panels installed to allow sunlight. Polyethylene sheeting was then taped on the interior of the first floor windows units.

Geo-textile fabric was laid on the exterior ground surface along the north elevation to collect any debris and paint chips.

Wet scraping of the window jambs, headers, sills and trim on the first floor north elevation began. The paint was misted with water and scraped to a paintable surface.

Upon completion, the windows and surrounding areas were vacuumed with a hepa-vac to collect any loose lead dust and paint chips. The plywood and plexiglass enclosures were reinstalled and the interior floors vacuumed with a hepa-vac.

Several removed sash were worked in our Jenkins Lead facility. Glazing and glass were

removed and paint removal was started. The locations of individual glass panes were documented before removal.

PROJECTED WORK FOR THE UPCOMING WEEK

Weather permitting, wet scraping and sanding will continue on the north and east elevations.

Paint removal on the window sash at the Jenkins facility will continue and new sills will be milled for the three first floor windows on the east elevation.

VISITORS TO THE SITE

N/A

SAFETY

Lead Paint Protocols were reviewed

WEATHER

Cold, Overcast

PERSONNEL ASSIGNED TO THE PROJECT

Three Maintenance Workers
One Exhibits Specialist

RECAP

Start Date:	November 28, 2005
Completion Date:	July 31, 2006
Percentage Completed:	8%
Starting Balance:	\$145,484.00

Sharon Feeney
Project Leader
cc: (electronically)
Don Campbell, Superintendent, HAFE
Michael Castagnetto, Facility Manager, HAFE
Peter Dessauer, Architect, HAFE
Richard Trott, Maintenance Supervisor, HAFE
Dennis Frye, Chief CRM/Interpretation, HAFE

Jennifer Flynn, Chief Ranger, HAFE
Catherine Bragaw, HAFE
Judy Coleman, HAFE

bcc: (electronically)
McGrath; HPTC
Hicks; HPTC
McGuigan; HPTC
Feeney, HPTC
Project; HPTC

**NATIONAL PARK SERVICE
HISTORIC PRESERVATION TRAINING CENTER (HPTC)
WEEKLY FIELD REPORT #3
FY-05**

PARK: Harpers Ferry National Historical Park, Harpers Ferry, WV

PROJECT: Preservation and Repair of the Windows and Doors of the Curtis
Freewill Baptist Church Phase II
HAFE Package 416/PMIS 99680

DATE: December 27, 2005

WEEK ENDING: December 22, 2005

GENERAL

During the course of wet scraping, it was determined that the paint is in worse condition than initially assessed. As a result, it was decided that heat guns will be used versus the wet scraping method. This will remove all deteriorated and alligatored surfaces and prevent any subsequent paint failure. On site man-hours for scraping will likely increase to 8 to 10 weeks.

WORK PERFORMED THIS WEEK

Wet scraping of the window jambs, headers, sills and trim continued on the north elevation. The paint was misted with water and scraped to a paintable surface. All first floor and basement level units were scraped to a paintable surface.

Wet scraping of loose paint began on the south and east elevations. The majority of the first floor units were completed and scraping was initiated on the basement level windows.

Geo-textile fabric was laid on the exterior ground surface along the north, south and east elevations to collect any debris and paint chips.

Upon completion, all windows and surrounding areas were vacuumed with a hepa-vac to collect any loose lead dust and paint chips. The plywood enclosures were reinstalled and the interior floors vacuumed with a hepa-vac.

PROJECTED WORK FOR THE UPCOMING WEEK

Total lead paint abatement on the window sash at the Jenkins facility will continue.

VISITORS TO THE SITE

N/A

SAFETY

Lead Paint and Asbestos Protocols were reviewed

WEATHER

Cold, Sunny

PERSONNEL ASSIGNED TO THE PROJECT

Three Maintenance Workers

One Exhibits Specialist

RECAP

Start Date:	November 28, 2005
Completion Date:	July 31, 2006
Percentage Completed:	12%
Starting Balance:	\$145,484.00

Sharon Feeney
Project Leader

cc: (electronically)
Don Campbell, Superintendent, HAFE
Michael Castagnetto, Facility Manager, HAFE
Peter Dessauer, Architect, HAFE
Richard Trott, Maintenance Supervisor, HAFE
Dennis Frye, Chief CRM/Interpretation, HAFE
Jennifer Flynn, Chief Ranger, HAFE
Catherine Bragaw, HAFE
Judy Coleman, HAFE

**NATIONAL PARK SERVICE
HISTORIC PRESERVATION TRAINING CENTER (HPTC)
WEEKLY FIELD REPORT #4
FY-05**

PARK: Harpers Ferry National Historical Park, Harpers Ferry, WV

PROJECT: Preservation and Repair of the Windows and Doors of the Curtis
Freewill Baptist Church Phase II
HAFE Package 416/PMIS 99680

DATE: January 3, 2006

WEEK ENDING: December 29, 2005

GENERAL

No work was performed on Monday, December 26th due to the holiday.

WORK PERFORMED THIS WEEK

Scraping of the lead paint to bare wood continued on the window sash the Jenkins facility using a mix of the steamer unit and heat guns.

PROJECTED WORK FOR THE UPCOMING WEEK

Total lead paint abatement and glazing removal on the window sash at the Jenkins facility will continue.

VISITORS TO THE SITE

N/A

SAFETY

Lead Paint Protocols were reviewed.

WEATHER

N/A

PERSONNEL ASSIGNED TO THE PROJECT

Two Maintenance Workers

RECAP

Start Date:	November 28, 2005
Completion Date:	July 31, 2006
Percentage Completed:	12%
Starting Balance:	\$145,484.00

Sharon Feeney
Project Leader

cc: (electronically)
Don Campbell, Superintendent, HAFE
Michael Castagnetto, Facility Manager, HAFE
Peter Dessauer, Architect, HAFE
Richard Trott, Maintenance Supervisor, HAFE
Dennis Frye, Chief CRM/Interpretation, HAFE
Jennifer Flynn, Chief Ranger, HAFE
Catherine Bragaw, HAFE
Judy Coleman, HAFE

bcc: (electronically)
McGrath; HPTC
Hicks; HPTC
McGuigan; HPTC
Feeney, HPTC
Project; HPTC

**NATIONAL PARK SERVICE
HISTORIC PRESERVATION TRAINING CENTER (HPTC)
WEEKLY FIELD REPORT #5
FY-05**

PARK: Harpers Ferry National Historical Park, Harpers Ferry, WV

PROJECT: Preservation and Repair of the Windows and Doors of the Curtis
Freewill Baptist Church Phase II
HAFE Package 416/PMIS 99680

DATE: January 9, 2006

WEEK ENDING: January 5, 2006

GENERAL

No work was performed on Monday, January 2nd due to the holiday.

WORK PERFORMED THIS WEEK

Removal of the glazing compound from the window sash at the Jenkins facility continued. Specific protocols were developed and followed for removal of the asbestos containing material. After removal, the sash were washed down and set aside for further lead paint abatement. The glass was numbered before removal to correspond with matching drawings to ensure accurate re-setting.

PROJECTED WORK FOR THE UPCOMING WEEK

Total lead paint abatement and glazing removal on the window sash at the Jenkins facility will continue.

VISITORS TO THE SITE

N/A

SAFETY

Asbestos Protocols were reviewed.

WEATHER

N/A

PERSONNEL ASSIGNED TO THE PROJECT

Three Maintenance Workers
One Exhibits Specialist

RECAP

Start Date:	November 28, 2005
Completion Date:	July 31, 2006
Percentage Completed:	16%
Starting Balance:	\$145,484.00

Sharon Feeney
Project Leader

cc: (electronically)
Don Campbell, Superintendent, HAFE
Michael Castagnetto, Facility Manager, HAFE
Peter Dessauer, Architect, HAFE
Richard Trott, Maintenance Supervisor, HAFE
Dennis Frye, Chief CRM/Interpretation, HAFE
Jennifer Flynn, Chief Ranger, HAFE
Catherine Bragaw, HAFE
Judy Coleman, HAFE

bcc: (electronically)
McGrath; HPTC
Hicks; HPTC
McGuigan; HPTC
Feeney, HPTC
Project; HPTC

**NATIONAL PARK SERVICE
HISTORIC PRESERVATION TRAINING CENTER (HPTC)
WEEKLY FIELD REPORT #6
FY-05**

PARK: Harpers Ferry National Historical Park, Harpers Ferry, WV

PROJECT: Preservation and Repair of the Windows and Doors of the Curtis
Freewill Baptist Church Phase II
HAFE Package 416/PMIS 99680

DATE: January 17, 2006

WEEK ENDING: January 12, 2006

GENERAL

No work will be performed on Monday, January 16th due to the holiday.

WORK PERFORMED THIS WEEK

Removal of the glazing compound from the window sash at the Jenkins facility continued. Specific protocols were developed and followed for removal of the asbestos containing material. After removal, the sash were washed down and set aside for further lead paint abatement. The glass was numbered before removal to correspond with matching drawings to ensure accurate re-setting.

Several pieces of glass were cracked or broke on removal. The damaged pieces were documented and set aside for replacement with in-kind material.

PROJECTED WORK FOR THE UPCOMING WEEK

Total lead paint abatement and glazing removal on the window sash at the Jenkins facility will continue.

VISITORS TO THE SITE

N/A

SAFETY

Asbestos and Lead Paint Protocols were reviewed.

WEATHER

N/A

PERSONNEL ASSIGNED TO THE PROJECT

Two Maintenance Workers

One Exhibits Specialist

RECAP

Start Date: November 28, 2005

Completion Date: July 31, 2006

Percentage Completed: 20%

Starting Balance: \$145,484.00

Sharon Feeney

Project Leader

cc: (electronically)

Don Campbell, Superintendent, HAFE

Michael Castagnetto, Facility Manager, HAFE

Peter Dessauer, Architect, HAFE

Richard Trott, Maintenance Supervisor, HAFE

Dennis Frye, Chief CRM/Interpretation, HAFE

Jennifer Flynn, Chief Ranger, HAFE

Catherine Bragaw, HAFE

Judy Coleman, HAFE

bcc: (electronically)

McGrath; HPTC

Hicks; HPTC

McGuigan; HPTC

Feeney, HPTC

Project; HPTC

**NATIONAL PARK SERVICE
HISTORIC PRESERVATION TRAINING CENTER (HPTC)
WEEKLY FIELD REPORT #7
FY-05**

PARK: Harpers Ferry National Historical Park, Harpers Ferry, WV

**PROJECT: Preservation and Repair of the Windows and Doors of the Curtis
Freewill Baptist Church Phase II
HAFE Package 416/PMIS 99680**

DATE: January 23, 2006

WEEK ENDING: January 19, 2006

GENERAL

No work was performed on Monday, January 16th due to the holiday.

A review of documents pertaining to the Curtis Freewill Baptist Church at the Harpers Ferry Library indicated previous repairs were completed on the stained glass windows in 1985. I am in the process of trying to obtain those records/contract documents to verify if any of the original stained glass has been replaced and who provided the replacement glass.

WORK PERFORMED THIS WEEK

Scraping of the lead paint from the window sash at the Jenkins facility continued. The paint was scraped to bare wood using a combination of the steamer unit and hand tools. A 2" paint band was left on several windows for future paint analysis. Location of the paint bands will be identified on the sash treatment drawings. After scraping was completed, sanding was begun.

PROJECTED WORK FOR THE UPCOMING WEEK

All lead paint abatement and sanding will be completed on the window sash at the Jenkins facility. All windows will then be washed down with a TSP solution.

Any necessary repairs will be documented and a cut list prepared for required millwork

VISITORS TO THE SITE

N/A

SAFETY

Lead Paint Protocols were reviewed.

WEATHER

N/A

PERSONNEL ASSIGNED TO THE PROJECT

Two Maintenance Workers
One Exhibits Specialist

RECAP

Start Date:	November 28, 2005
Completion Date:	July 31, 2006
Percentage Completed:	24%
Starting Balance:	\$145,484.00

Sharon Feeney
Project Leader

cc: (electronically)
Don Campbell, Superintendent, HAFE
Michael Castagnetto, Facility Manager, HAFE
Peter Dessauer, Architect, HAFE
Richard Trott, Maintenance Supervisor, HAFE
Dennis Frye, Chief CRM/Interpretation, HAFE
Jennifer Flynn, Chief Ranger, HAFE
Catherine Bragaw, HAFE
Judy Coleman, HAFE

bcc: (electronically)
McGrath; HPTC
Hicks; HPTC
McGuigan; HPTC
Feeney, HPTC
Project; HPTC

**NATIONAL PARK SERVICE
HISTORIC PRESERVATION TRAINING CENTER (HPTC)
WEEKLY FIELD REPORT #8
FY-05**

PARK: Harpers Ferry National Historical Park, Harpers Ferry, WV

PROJECT: Preservation and Repair of the Windows and Doors of the Curtis
Freewill Baptist Church Phase II
HAFE Package 416/PMIS 99680

DATE: January 30, 2006

WEEK ENDING: January 26, 2006

GENERAL

A review of the contract documents pertaining to the Curtis Freewill Baptist Church Stained Glass 1984/1985 indicated previous repairs were completed on the windows. Nine out of the fourteen windows currently being worked have had prior stained glass replacement. All windows had portions of failing glazing and paint replaced. Windows with prior replacement glass will be noted on field drawings.

WORK PERFORMED THIS WEEK

Scraping of lead paint was completed and sanding of the sash was begun. All flat surfaces were sanded with an orbital sander and profiled surfaces completed by hand.

PROJECTED WORK FOR THE UPCOMING WEEK

All sanding will be completed on the window sash at the Jenkins facility. All windows will then be washed down with a TSP solution.

Any necessary repairs will be documented and a cut list prepared for required millwork

VISITORS TO THE SITE

N/A

SAFETY

Lead Paint Protocols were reviewed.

WEATHER

N/A

PERSONNEL ASSIGNED TO THE PROJECT

Two Maintenance Workers
One Exhibits Specialist

RECAP

Start Date:	November 28, 2005
Completion Date:	July 31, 2006
Percentage Completed:	27%
Starting Balance:	\$145,484.00

Sharon Feeney
Project Leader

cc: (electronically)
Don Campbell, Superintendent, HAFE
Michael Castagnetto, Facility Manager, HAFE
Peter Dessauer, Architect, HAFE
Richard Trott, Maintenance Supervisor, HAFE
Dennis Frye, Chief CRM/Interpretation, HAFE
Jennifer Flynn, Chief Ranger, HAFE
Catherine Bragaw, HAFE
Judy Coleman, HAFE

bcc: (electronically)
McGrath; HPTC
Hicks; HPTC
McGuigan; HPTC
Feeney, HPTC
Project; HPTC

**NATIONAL PARK SERVICE
HISTORIC PRESERVATION TRAINING CENTER (HPTC)
WEEKLY FIELD REPORT #9
FY-05**

PARK: Harpers Ferry National Historical Park, Harpers Ferry, WV

PROJECT: Preservation and Repair of the Windows and Doors of the Curtis
Freewill Baptist Church Phase II
HAFE Package 416/PMIS 99680

DATE: February 6, 2006

WEEK ENDING: February 2, 2006

GENERAL

N/A

WORK PERFORMED THIS WEEK

All sanding on the sash and lunette windows was completed. Flat surfaces were sanded with an orbital sander and profiled surfaces were completed by hand. The windows were then washed down with a TSP solution.

Any necessary repairs were documented to prepare the required millwork.

PROJECTED WORK FOR THE UPCOMING WEEK

Any necessary carpentry repairs including consolidation and dutchman repairs will begin at the Jenkins shop facility. All dutchman repairs will be completed with mahogany. Consolidation repairs will be completed using West System epoxy and/or Timberflex.

VISITORS TO THE SITE

N/A

SAFETY

Lead Paint Protocols were reviewed.

WEATHER

N/A

PERSONNEL ASSIGNED TO THE PROJECT

Two Maintenance Workers

One Exhibits Specialist

RECAP

Start Date: November 28, 2005

Completion Date: July 31, 2006

Percentage Completed: 31%

Starting Balance: \$145,484.00

Sharon Feeney

Project Leader

cc: (electronically)

Don Campbell, Superintendent, HAFE

Michael Castagnetto, Facility Manager, HAFE

Peter Dessauer, Architect, HAFE

Richard Trott, Maintenance Supervisor, HAFE

Dennis Frye, Chief CRM/Interpretation, HAFE

Jennifer Flynn, Chief Ranger, HAFE

Catherine Bragaw, HAFE

Judy Coleman, HAFE

bcc: (electronically)

McGrath; HPTC

Hicks; HPTC

McGuigan; HPTC

Feeney, HPTC

Project; HPTC

**NATIONAL PARK SERVICE
HISTORIC PRESERVATION TRAINING CENTER (HPTC)
WEEKLY FIELD REPORT #11
FY-05**

PARK: Harpers Ferry National Historical Park, Harpers Ferry, WV

PROJECT: Preservation and Repair of the Windows and Doors of the Curtis
Freewill Baptist Church Phase II
HAFE Package 416/PMIS 99680

DATE: February 21, 2006

WEEK ENDING: February 16, 2006

GENERAL

No work was performed on Monday, January 20th due to the holiday.

WORK PERFORMED THIS WEEK

Carpentry repairs were initiated. Seventeen of the sash and one of the lunette windows require carpentry repairs that consist of dutchman repairs, consolidation repairs and/or re-sprigging. The remaining units require minor fill or epoxy repairs.

All dutchman repairs were completed using mahogany. Consolidation repairs were completed with West System epoxy and/or Timberflex. Stainless steel 6d sprigs were used in re-sprigging. The locations of all the repairs have been documented on field drawings.

PROJECTED WORK FOR THE UPCOMING WEEK

Any necessary carpentry repairs will be completed as well as any minor fill repairs. All repairs will be sanded after completion and priming will begin. Units will be primed with an alkyd primer.

VISITORS TO THE SITE

N/A

SAFETY

General shop safety protocols were reviewed.

WEATHER

N/A

PERSONNEL ASSIGNED TO THE PROJECT

Two Maintenance Workers

Two Exhibits Specialist

RECAP

Start Date:	November 28, 2005
Completion Date:	July 31, 2006
Percentage Completed:	35%
Starting Balance:	\$145,484.00

Sharon Feeney
Project Leader

cc: (electronically)
Don Campbell, Superintendent, HAFE
Michael Castagnetto, Facility Manager, HAFE
Peter Dessauer, Architect, HAFE
Richard Trott, Maintenance Supervisor, HAFE
Dennis Frye, Chief CRM/Interpretation, HAFE
Jennifer Flynn, Chief Ranger, HAFE
Catherine Bragaw, HAFE
Judy Coleman, HAFE

bcc: (electronically)
McGrath; HPTC
Hicks; HPTC
McGuigan; HPTC
Feeney, HPTC
Project; HPTC

**NATIONAL PARK SERVICE
HISTORIC PRESERVATION TRAINING CENTER (HPTC)
WEEKLY FIELD REPORT #11
FY-05**

PARK: Harpers Ferry National Historical Park, Harpers Ferry, WV

PROJECT: Preservation and Repair of the Windows and Doors of the Curtis
Freewill Baptist Church Phase II
HAFE Package 416/PMIS 99680

DATE: February 21, 2006

WEEK ENDING: February 16, 2006

GENERAL

No work was performed on Thursday, February 16th due to an employee training session.
No work will be performed on Monday, February 20th due to the holiday.

WORK PERFORMED THIS WEEK

All dutchman repairs were completed using mahogany. Any necessary consolidation repairs were completed with West System epoxy and/or Timberflex. Stainless steel 6d sprigs were used in re-sprigging. Minor repairs were completed with Minwax. All repairs were then sanded.

The locations of all the carpentry repairs were documented on field drawings.

PROJECTED WORK FOR THE UPCOMING WEEK

All sanding will be completed and priming will begin. Units will be primed with an alkyd primer.

The stained glass will be dry fitted in each sash to ensure proper placement.

VISITORS TO THE SITE

N/A

SAFETY

Shop safety protocols were reviewed.

WEATHER

N/A

PERSONNEL ASSIGNED TO THE PROJECT

Two Maintenance Workers

Two Exhibits Specialist

RECAP

Start Date:	November 28, 2005
Completion Date:	July 31, 2006
Percentage Completed:	38%
Starting Balance:	\$145,484.00

Sharon Feeney
Project Leader

cc: (electronically)
Don Campbell, Superintendent, HAFE
Michael Castagnetto, Facility Manager, HAFE
Peter Dessauer, Architect, HAFE
Richard Trott, Maintenance Supervisor, HAFE
Dennis Frye, Chief CRM/Interpretation, HAFE
Jennifer Flynn, Chief Ranger, HAFE
Catherine Bragaw, HAFE
Judy Coleman, HAFE

bcc: (electronically)
McGrath; HPTC
Hicks; HPTC
McGuigan; HPTC
Feeney, HPTC
Project; HPTC

**NATIONAL PARK SERVICE
HISTORIC PRESERVATION TRAINING CENTER (HPTC)
WEEKLY FIELD REPORT #12
FY-05**

PARK: Harpers Ferry National Historical Park, Harpers Ferry, WV

PROJECT: Preservation and Repair of the Windows and Doors of the Curtis
Freewill Baptist Church Phase II
HAFE Package 416/PMIS 99680

DATE: February 27, 2006

WEEK ENDING: February 23, 2006

GENERAL

No work was performed on Monday, February 20th due to the holiday. No work will be performed next week due to an employee training session.

Replacement glass was ordered to replace the cracked and broken panes. Utilizing the existing glass, a close texture and color match was found at the Paul Wissmach Glass Co, Inc.

WORK PERFORMED THIS WEEK

All sanding was completed and the stained glass was dry-fitted in each sash to ensure a proper fit. Any necessary adjustments were made and priming began. All but four sash were primed, using an alkyd primer.

PROJECTED WORK FOR THE UPCOMING WEEK

No work will be completed this week due to an employee training session. Priming will be completed the following week and glazing will begin.

VISITORS TO THE SITE

N/A

SAFETY

Shop safety protocols were reviewed.

WEATHER

N/A

PERSONNEL ASSIGNED TO THE PROJECT

Two Maintenance Workers

One Exhibits Specialist

RECAP

Start Date:	November 28, 2005
Completion Date:	July 31, 2006
Percentage Completed:	42%
Starting Balance:	\$145,484.00

Sharon Feeney
Project Leader

cc: (electronically)
Don Campbell, Superintendent, HAFE
Michael Castagnetto, Facility Manager, HAFE
Peter Dessauer, Architect, HAFE
Richard Trott, Maintenance Supervisor, HAFE
Dennis Frye, Chief CRM/Interpretation, HAFE
Jennifer Flynn, Chief Ranger, HAFE
Catherine Bragaw, HAFE
Judy Coleman, HAFE

bcc: (electronically)
McGrath; HPTC
Hicks; HPTC
McGuigan; HPTC
Feeney, HPTC
Project; HPTC

**NATIONAL PARK SERVICE
HISTORIC PRESERVATION TRAINING CENTER (HPTC)
WEEKLY FIELD REPORT #13
FY-05**

PARK: Harpers Ferry National Historical Park, Harpers Ferry, WV

PROJECT: Preservation and Repair of the Windows and Doors of the Curtis
Freewill Baptist Church Phase II
HAFE Package 416/PMIS 99680

DATE: March 13, 2006

WEEK ENDING: March 9, 2006

GENERAL

No work was performed the week of February 27th due to an employee training sessions.

The replacement stained glass was received and cut to size.

After inspecting the lead comes, it was determined that the all of the lead is deteriorated and will require replacement. A cost estimate for all lead work has been obtained and a design change approval form will be submitted.

WORK PERFORMED THIS WEEK

All priming was competed and the sash were then lightly sanded.

Glazing began on the south elevation windows with Old Time Linseed Oil Putty. All openings were first back bedded with putty. After the glass was fitted, the panes were secured with diamond points and face glazing applied. All excess glazing was removed and the sash stored to allow the glazing to set up.

PROJECTED WORK FOR THE UPCOMING WEEK

Glazing will continue on the south and north elevation windows.

VISITORS TO THE SITE

N/A

SAFETY

Shop safety protocols were reviewed.

WEATHER

N/A

PERSONNEL ASSIGNED TO THE PROJECT

One Maintenance Worker
One Exhibits Specialist

RECAP

Start Date:	November 28, 2005
Completion Date:	July 31, 2006
Percentage Completed:	52%
Starting Balance:	\$145,484.00

Sharon Feeney
Project Leader

cc: (electronically)
Don Campbell, Superintendent, HAFE
Michael Castagnetto, Facility Manager, HAFE
Peter Dessauer, Architect, HAFE
Richard Trott, Maintenance Supervisor, HAFE
Dennis Frye, Chief CRM/Interpretation, HAFE
Jennifer Flynn, Chief Ranger, HAFE
Catherine Bragaw, HAFE
Judy Coleman, HAFE

bcc: (electronically)
McGrath; HPTC
Hicks; HPTC
McGuigan; HPTC
Feeney, HPTC
Project; HPTC

**NATIONAL PARK SERVICE
HISTORIC PRESERVATION TRAINING CENTER (HPTC)
WEEKLY FIELD REPORT #14
FY-05**

PARK: Harpers Ferry National Historical Park, Harpers Ferry, WV

PROJECT: Preservation and Repair of the Windows and Doors of the Curtis
Freewill Baptist Church Phase II
HAFE Package 416/PMIS 99680

DATE: March 20, 2006

WEEK ENDING: March 16, 2006

GENERAL

N/A

WORK PERFORMED THIS WEEK

Glazing continued on the south and north elevation windows with Old Time Linseed Oil Putty. All openings were first back bedded with putty. After the glass was fitted, the panes were secured with diamond points and face glazing applied. All excess glazing was removed and the sash stored to allow the glazing to set up. Several panes of glass had small cracks/stress fractures and broke when installed in the putty beds. Historic glass was utilized to replace the smaller panes.

A stress fracture was noted in one of the larger etched panes before installation. All attempts were made to handle with necessary care but unfortunately, the glass cracked. As it was a clean break and it is one of the more significant panes, repair was decided as the best option.

PROJECTED WORK FOR THE UPCOMING WEEK

Glazing will continue on the north and east elevation windows.

VISITORS TO THE SITE

N/A

SAFETY

Shop safety protocols were reviewed.

WEATHER

N/A

PERSONNEL ASSIGNED TO THE PROJECT

Three Maintenance Worker
One Exhibits Specialist

RECAP

Start Date:	November 28, 2005
Completion Date:	July 31, 2006
Percentage Completed:	60%
Starting Balance:	\$145,484.00

Sharon Feeney
Project Leader

cc: (electronically)
Don Campbell, Superintendent, HAFE
Michael Castagnetto, Facility Manager, HAFE
Peter Dessauer, Architect, HAFE
Richard Trott, Maintenance Supervisor, HAFE
Dennis Frye, Chief CRM/Interpretation, HAFE
Jennifer Flynn, Chief Ranger, HAFE
Catherine Bragaw, HAFE
Judy Coleman, HAFE

bcc: (electronically)
McGrath; HPTC
Hicks; HPTC
McGuigan; HPTC
Feeney, HPTC
Project; HPTC

**NATIONAL PARK SERVICE
HISTORIC PRESERVATION TRAINING CENTER (HPTC)
WEEKLY FIELD REPORT #15
FY-05**

PARK: Harpers Ferry National Historical Park, Harpers Ferry, WV

PROJECT: Preservation and Repair of the Windows and Doors of the Curtis
Freewill Baptist Church Phase II
HAFE Package 416/PMIS 99680

DATE: March 27, 2006

WEEK ENDING: March 23, 2006

GENERAL

The repaired glass panel and corner pieces with new lead came were picked up from the stained glass contractor.

The contractor stated that the crack had been repaired with glue using an ultraviolet curing process. However, she stated that the panel was extremely fragile and several others cracks and striations were apparent. In particular, there were two cracks that had not broken through yet but there was a high probability that they could. She stated that the glass is very thin and the method of sandblasting originally utilized to create the etching should not have been used on such a thin pane resulting in a very fragile piece of glass.

When the glass was moved by the contractor to prepare for transportation back to HPTC, the pane broke into three sections, along the original crack and along one of the cracks that the contractor pointed out. The contractor will attempt repair again, but stressed that it is not a good piece of glass.

Replacement was also considered as an option; however the usual maximum length of blown glass is 36". The existing pane is 37"+ with the two 1 ½" pieces filling in the gaps at the top and bottom. If replaced, the pane will likely have to be recreated in a smaller dimension and the width of the two end pieces increased to make up the difference. The contractor is looking into obtaining replacement glass.

WORK PERFORMED THIS WEEK

Glazing continued on the east and west elevation windows with Old Time Linseed Oil Putty. All openings were first back bedded with putty. After the glass was fitted, the panes were secured with diamond points and face glazing applied. All excess glazing was removed and the sash stored to allow the glazing to set up. A couple of panes of glass had small cracks/stress fractures and broke when installed in

the putty beds. Replacement panes matching in color and texture were ordered if historic glass was not available. In two openings, the historic glass was originally cut too small for the opening. The previous contractor/maintenance crews had infilled these gaps with caulk. As caulking the openings is not a recommended repair option, replacement glass matching in color and texture was ordered for these openings.

New mahogany sills were milled for windows 205, 206A&206B and 207.

PROJECTED WORK FOR THE UPCOMING WEEK

No work will be performed next week due to an employee training session.

VISITORS TO THE SITE

N/A

SAFETY

Shop safety protocols were reviewed.

WEATHER

N/A

PERSONNEL ASSIGNED TO THE PROJECT

Three Maintenance Worker
One Exhibits Specialist

RECAP

Start Date:	November 28, 2005
Completion Date:	July 31, 2006
Percentage Completed:	67%
Starting Balance:	\$145,484.00

Sharon Feeney
Project Leader

cc: (electronically)

Don Campbell, Superintendent, HAFE

Michael Castagnetto, Facility Manager, HAFE

Peter Dessauer, Architect, HAFE

Richard Trott, Maintenance Supervisor, HAFE

Dennis Frye, Chief CRM/Interpretation, HAFE

Jennifer Flynn, Chief Ranger, HAFE

Catherine Bragaw, HAFE

Judy Coleman, HAFE

bcc: (electronically)

McGrath; HPTC

Hicks; HPTC

McGuigan; HPTC

Feeney, HPTC

Project; HPTC

**NATIONAL PARK SERVICE
HISTORIC PRESERVATION TRAINING CENTER (HPTC)
WEEKLY FIELD REPORT #16
FY-05**

PARK: Harpers Ferry National Historical Park, Harpers Ferry, WV

PROJECT: Preservation and Repair of the Windows and Doors of the Curtis
Freewill Baptist Church Phase II
HAFE Package 416/PMIS 99680

DATE: April 3, 2006

WEEK ENDING: March 30, 2006

GENERAL

The stained glass contactor called to state she had found replacement glass for the etched blown glass. However, the maximum length is 37", not large enough for the opening. A filler strip would have to be added to make up the difference. The various options will be discussed with the HAFE Park architect this week.

No work was performed Tuesday through Thursday of this week due to an employee training session.

Dean Wigfield has taken over the project supervisor responsibilities for the remainder of the project.

WORK PERFORMED THIS WEEK

All glazing was completed and each sash checked for any necessary touch-ups. A few sash are not complete as we are waiting on replacement glass that had to be ordered.

Salvaged exterior stop and parting bead components were scraped to bare wood.

PROJECTED WORK FOR THE UPCOMING WEEK

Necessary replacement exterior stop and parting bead will be milled and site work will resume.

Window jambs and sills will be scraped to bare wood utilizing heat guns, starting with the south elevation.

VISITORS TO THE SITE

N/A

SAFETY

Shop safety and lead abatement protocols were reviewed.

WEATHER

N/A

PERSONNEL ASSIGNED TO THE PROJECT

Three Maintenance Workers (M)

One Exhibits Specialist (M)

RECAP

Start Date:	November 28, 2005
Completion Date:	July 31, 2006
Percentage Completed:	70%
Starting Balance:	\$145,484.00

Sharon Feeney
Project Leader

cc: (electronically)
Don Campbell, Superintendent, HAFE
Michael Castagnetto, Facility Manager, HAFE
Peter Dessauer, Architect, HAFE
Richard Trott, Maintenance Supervisor, HAFE
Dennis Frye, Chief CRM/Interpretation, HAFE
Jennifer Flynn, Chief Ranger, HAFE
Catherine Bragaw, HAFE
Judy Coleman, HAFE

bcc: (electronically)
McGrath; HPTC
Hicks; HPTC
McGuigan; HPTC
Wigfield; HPTC
Feeney, HPTC
Project; HPTC

**NATIONAL PARK SERVICE
HISTORIC PRESERVATION TRAINING CENTER (HPTC)
WEEKLY FIELD REPORT #17
FY-05**

PARK: Harpers Ferry National Historical Park, Harpers Ferry, WV

PROJECT: Preservation and Repair of the Windows and Doors of the Curtis
Freewill Baptist Church Phase II
HAFE Package 416/PMIS 99680

DATE: April 10, 2006

WEEK ENDING: April 6, 2006

GENERAL

N/A

WORK PERFORMED THIS WEEK

Work on site resumed. Scraping of the lead paint began on the north elevation jambs. Heat guns were utilized to take the surface to bare wood.

PROJECTED WORK FOR THE UPCOMING WEEK

Scraping the lead paint from the window jambs with heat guns will continue on the north elevation and east elevation windows.

VISITORS TO THE SITE

N/A

SAFETY

Lead abatement protocols were reviewed.

WEATHER

Fair

PERSONNEL ASSIGNED TO THE PROJECT

Three Maintenance Workers
One Exhibits Specialist

RECAP

Start Date:	November 28, 2005
Completion Date:	July 31, 2006
Percentage Completed:	74%
Starting Balance:	\$145,484.00

Sharon Feeney
Project Leader

cc: (electronically)
Don Campbell, Superintendent, HAFE
Michael Castagnetto, Facility Manager, HAFE
Peter Dessauer, Architect, HAFE
Richard Trott, Maintenance Supervisor, HAFE
Dennis Frye, Chief CRM/Interpretation, HAFE
Jennifer Flynn, Chief Ranger, HAFE
Catherine Bragaw, HAFE
Judy Coleman, HAFE

bcc: (electronically)
McGrath; HPTC
Hicks; HPTC
McGuigan; HPTC
Wigfield; HPTC
Feeney, HPTC
Project; HPTC

**NATIONAL PARK SERVICE
HISTORIC PRESERVATION TRAINING CENTER (HPTC)
WEEKLY FIELD REPORT #18
FY-05**

PARK: Harpers Ferry National Historical Park, Harpers Ferry, WV

PROJECT: Preservation and Repair of the Windows and Doors of the Curtis
Freewill Baptist Church Phase II
HAFE Package 416/PMIS 99680

DATE: April 17, 2006

WEEK ENDING: April 13, 2006

GENERAL

N/A

WORK PERFORMED THIS WEEK

Scraping the lead paint to bare wood with heat guns was completed on the north and east elevations. Work began on the south elevation.

PROJECTED WORK FOR THE UPCOMING WEEK

Scraping of the south elevation window jambs to bare word utilizing heat guns will be completed.

Carpentry repairs will begin on the first floor windows.

VISITORS TO THE SITE

N/A

SAFETY

Lead abatement protocols were reviewed.

WEATHER

Fair

PERSONNEL ASSIGNED TO THE PROJECT

Four Maintenance Workers

RECAP

Start Date:	November 28, 2005
Completion Date:	July 31, 2006
Percentage Completed:	78%
Starting Balance:	\$145,484.00

Sharon Feeney
Project Leader

cc: (electronically)
Don Campbell, Superintendent, HAFE
Michael Castagnetto, Facility Manager, HAFE
Peter Dessauer, Architect, HAFE
Richard Trott, Maintenance Supervisor, HAFE
Dennis Frye, Chief CRM/Interpretation, HAFE
Jennifer Flynn, Chief Ranger, HAFE
Catherine Bragaw, HAFE
Judy Coleman, HAFE

bcc: (electronically)
McGrath; HPTC
Hicks; HPTC
McGuigan; HPTC
Wigfield; HPTC
Feeney, HPTC
Project; HPTC

**NATIONAL PARK SERVICE
HISTORIC PRESERVATION TRAINING CENTER (HPTC)
WEEKLY FIELD REPORT #19
FY-05**

PARK: Harpers Ferry National Historical Park, Harpers Ferry, WV

PROJECT: Preservation and Repair of the Windows and Doors of the Curtis
Freewill Baptist Church Phase II
HAFE Package 416/PMIS 99680

DATE: April 24, 2006

WEEK ENDING: April 20, 2006

GENERAL

N/A

WORK PERFORMED THIS WEEK

All scraping of the first floor windows was completed. Carpentry repairs were completed of the first floor and basement level windows. Deteriorated wood was consolidated using the West system epoxy and/or dutchman repairs where necessary. All dutchman repairs were completed with mahogany. Sanding of the epoxy repairs was begun.

Priming of the putty beds was completed on the north and south elevations windows. The first coat of exterior paint was applied to a portion of the north and south elevation sash.

PROJECTED WORK FOR THE UPCOMING WEEK

All sanding on the window jambs and sills will be completed. Priming the jambs, sill and headers with an alkyd primer will begin.

Painting the first floor sash will continue. The sash will receive two coats of latex paint, white on the exterior, cream on the interior. The interior color was color matched to match the existing paint.

VISITORS TO THE SITE

N/A

SAFETY

Lead abatement protocols were reviewed.

WEATHER

Sunny

PERSONNEL ASSIGNED TO THE PROJECT

Three Maintenance Workers
One Exhibits Specialist

RECAP

Start Date:	November 28, 2005
Completion Date:	July 31, 2006
Percentage Completed:	85%
Starting Balance:	\$145,484.00

Sharon Feeney
Project Leader

cc: (electronically)
Don Campbell, Superintendent, HAFE
Michael Castagnetto, Facility Manager, HAFE
Peter Dessauer, Architect, HAFE
Richard Trott, Maintenance Supervisor, HAFE
Dennis Frye, Chief CRM/Interpretation, HAFE
Jennifer Flynn, Chief Ranger, HAFE
Catherine Bragaw, HAFE
Judy Coleman, HAFE

bcc: (electronically)
McGrath; HPTC
Hicks; HPTC
McGuigan; HPTC
Wigfield; HPTC
Feeney, HPTC
Project; HPTC

**NATIONAL PARK SERVICE
HISTORIC PRESERVATION TRAINING CENTER (HPTC)
WEEKLY FIELD REPORT #20
FY-05**

PARK: Harpers Ferry National Historical Park, Harpers Ferry, WV

PROJECT: Preservation and Repair of the Windows and Doors of the Curtis
Freewill Baptist Church Phase II
HAFE Package 416/PMIS 99680

DATE: May 2, 2006

WEEK ENDING: April 27, 2006

GENERAL

N/A

WORK PERFORMED THIS WEEK

All sanding on the first floor window jambs and sills was completed and they were then primed with an alkyd primer. The jambs and sills were then painted with the first coat of exterior latex paint.

Painting the first floor north and south elevation sash continued. The sash is receiving two coats of latex paint, white on the exterior, cream on the interior. The interior color was color matched to match the existing paint.

PROJECTED WORK FOR THE UPCOMING WEEK

A second coat of exterior latex paint will be applied to the windows jambs and the basement level windows will be prepped for painting. Painting will continue on the first floor sash.

VISITORS TO THE SITE

N/A

SAFETY

General jobsite safety protocols were reviewed.

WEATHER

Fair; Sunny

PERSONNEL ASSIGNED TO THE PROJECT

Three Maintenance Workers
One Exhibits Specialist

RECAP

Start Date:	November 28, 2005
Completion Date:	July 31, 2006
Percentage Completed:	90%
Starting Balance:	\$145,484.00

Sharon Feeney
Project Leader

cc: (electronically)
Don Campbell, Superintendent, HAFE
Michael Castagnetto, Facility Manager, HAFE
Peter Dessauer, Architect, HAFE
Richard Trott, Maintenance Supervisor, HAFE
Dennis Frye, Chief CRM/Interpretation, HAFE
Jennifer Flynn, Chief Ranger, HAFE
Catherine Bragaw, HAFE
Judy Coleman, HAFE

bcc: (electronically)
McGrath; HPTC
Hicks; HPTC
McGuigan; HPTC
Wigfield; HPTC
Feeney, HPTC
Project; HPTC

**NATIONAL PARK SERVICE
HISTORIC PRESERVATION TRAINING CENTER (HPTC)
WEEKLY FIELD REPORT #21
FY-05**

PARK: Harpers Ferry National Historical Park, Harpers Ferry, WV

PROJECT: Preservation and Repair of the Windows and Doors of the Curtis
Freewill Baptist Church Phase II
HAFE Package 416/PMIS 99680

DATE: May 8, 2006

WEEK ENDING: May 4, 2006

GENERAL

N/A

WORK PERFORMED THIS WEEK

A second coat of exterior latex paint was applied to the windows jambs and headers. The basement level windows were prepped, primed with an alkyd and received one coat of exterior latex paint.

Painting continued on the first floor sash. All of the north and south elevation windows received two coats of exterior and interior latex paint.

PROJECTED WORK FOR THE UPCOMING WEEK

Painting will be completed on the east elevation windows. Installation of the first floor sash will begin on the south elevation

VISITORS TO THE SITE

N/A

SAFETY

General jobsite safety protocols were reviewed.

WEATHER

Fair; Sunny

PERSONNEL ASSIGNED TO THE PROJECT

Three Maintenance Workers

One Exhibits Specialist

RECAP

Start Date:	November 28, 2005
Completion Date:	July 31, 2006
Percentage Completed:	93%
Starting Balance:	\$145,484.00

Sharon Feeney

Project Leader

cc: (electronically)

Don Campbell, Superintendent, HAFE

Michael Castagnetto, Facility Manager, HAFE

Peter Dessauer, Architect, HAFE

Richard Trott, Maintenance Supervisor, HAFE

Dennis Frye, Chief CRM/Interpretation, HAFE

Jennifer Flynn, Chief Ranger, HAFE

Catherine Bragaw, HAFE

Judy Coleman, HAFE

bcc: (electronically)

McGrath; HPTC

Hicks; HPTC

McGuigan; HPTC

Wigfield; HPTC

Feeney, HPTC

Project; HPTC

**NATIONAL PARK SERVICE
HISTORIC PRESERVATION TRAINING CENTER (HPTC)
WEEKLY FIELD REPORT #22
FY-05**

PARK: Harpers Ferry National Historical Park, Harpers Ferry, WV

PROJECT: Preservation and Repair of the Windows and Doors of the Curtis
Freewill Baptist Church Phase II
HAFE Package 416/PMIS 99680

DATE: May 15, 2006

WEEK ENDING: May 11, 2006

GENERAL

N/A

WORK PERFORMED THIS WEEK

Two coats of exterior paint and interior paint was applied to the east elevation windows. The second coat of exterior latex paint was applied to the basement level windows.

Installation of the first floor sash began. All of the south and north elevation sash were installed. The upper sash were fixed in place and lower sash hung with 3/8" sash cord and the original pulleys and weights.

PROJECTED WORK FOR THE UPCOMING WEEK

The east elevation and west elevation windows will be installed. All caulking and touch-up painting will be completed and the window cleaned.

The site will be cleaned of all materials and debris.

VISITORS TO THE SITE

N/A

SAFETY

General jobsite safety protocols were reviewed.

WEATHER

Rain; Cloudy

PERSONNEL ASSIGNED TO THE PROJECT

Three Maintenance Workers
One Exhibits Specialist

RECAP

Start Date:	November 28, 2005
Completion Date:	July 31, 2006
Percentage Completed:	97%
Starting Balance:	\$145,484.00

Sharon Feeney
Project Leader

cc: (electronically)
Don Campbell, Superintendent, HAFE
Michael Castagnetto, Facility Manager, HAFE
Peter Dessauer, Architect, HAFE
Richard Trott, Maintenance Supervisor, HAFE
Dennis Frye, Chief CRM/Interpretation, HAFE
Jennifer Flynn, Chief Ranger, HAFE
Catherine Bragaw, HAFE
Judy Coleman, HAFE

bcc: (electronically)
McGrath; HPTC
Hicks; HPTC
McGuigan; HPTC
Wigfield; HPTC
Feeney, HPTC
Project; HPTC

**NATIONAL PARK SERVICE
HISTORIC PRESERVATION TRAINING CENTER (HPTC)
WEEKLY FIELD REPORT #23
FY-05**

PARK: Harpers Ferry National Historical Park, Harpers Ferry, WV

PROJECT: Preservation and Repair of the Windows and Doors of the Curtis
Freewill Baptist Church Phase II
HAFE Package 416/PMIS 99680

DATE: May 22, 2006

WEEK ENDING: May 18, 2006

GENERAL

Peter Dessauer inspected the site on Tuesday, May 16th for a preliminary final inspection. The work completed to date was reviewed the following comments noted:

- Upper sash are not caulked and small gaps should be left for expansion and contraction movement
- Any joints under the sill not already caulked will be caulked
- Any sills not painted on the underside will be painted
- The two basement level entry doors only will be painted
- All touch-up paint will be completed
- Paint splatters on brick are not from HPTC

The final inspection is scheduled for Monday, May 22, 2006.

WORK PERFORMED THIS WEEK

The east elevation and west elevation windows were installed.

Several of the sash were not wide enough to fit snugly in the jambs (an original detail), making opening and closing the lower sash difficult. Wooden strips were attached to the stiles on those sash to allow for easier movement.

All removed or damaged parting bead and interior stop was installed. All caulking and touch-up painting was completed on both the interior and exterior. The windows were then cleaned.

The two basement entry doors were prepped and painted with exterior latex paint.

Stick inserts painted to match the interior sash were installed in all of the sash except for W205 and W207 due to their arched shape.

Materials and supplies were removed and the site cleaned of debris.

PROJECTED WORK FOR THE UPCOMING WEEK

Final inspection is scheduled for Monday, May 22nd.

VISITORS TO THE SITE

Peter Dessauer

SAFETY

General jobsite safety protocols were reviewed.

WEATHER

Rain; Cloudy

PERSONNEL ASSIGNED TO THE PROJECT

Three Maintenance Workers

One Exhibits Specialist

RECAP

Start Date:	November 28, 2005
Completion Date:	July 31, 2006
Percentage Completed:	100%
Starting Balance:	\$145,484.00

Sharon Feeney
Project Leader

cc: (electronically)
Don Campbell, Superintendent, HAFE
Michael Castagnetto, Facility Manager, HAFE
Peter Dessauer, Architect, HAFE
Richard Trott, Maintenance Supervisor, HAFE
Dennis Frye, Chief CRM/Interpretation, HAFE
Jennifer Flynn, Chief Ranger, HAFE
Catherine Bragaw, HAFE
Judy Coleman, HAFE

Material Data/Vendors

Material Suppliers

Brass and Copper Shop
13 S. Carroll Street
Frederick, MD 21701
301-663-4240

Hardware refinishing

CORP OHS
400 Prospect Blvd.
Frederick, MD

Blood Lead Level Testing

Cubit Associates
5235 Westview Drive, Suite 100
Frederick, MD 21701
301-696-8501

Air Monitoring

Duron Paints
5807 Buckeystown Pike
Frederick, MD 21704
301-620-1503

Whiting

Home Depot
Frederick, MD

Various materials and supplies

J. Gibson McIlvain
White Marsh, MD
410-335-9600

Mahogany lumber

Klingspor Woodworking Shop
PO Box 5069
Hickory, NC 28603
1-800-228-0000

HEPA vacuum
Sandpaper and sanding discs

Lab Safety
Janesville, WI
1-800-356-0783

Safety signage – lead

Lowes
Frederick, MD

Various materials and supplies

Noland Co.
600 S. Market Street
Frederick, MD 21701
301-663-9541

Air Filters for Lead Suite

Northern Safety
Utica, NY
1-800-631-1246

PAPR and respirator supplies
Safety equipment

Piedmont Plastics
9000 Virginia Manor Road
Beltsville, MD 20705

Plexiglass

Olde Tyme Linseed Oil Putty

No longer available

Regal Paint Centers
1111 N. East Street
Frederick, MD 21701
301-662-8242

Benjamin Moore Alkyd Primer
Benjamin Moore Exterior Latex Paint
Benjamin Moore Interior Latex Paint
(see paint formula sheet)

Stained Glass Supply
7611D Willow Road
Frederick, MD 21702
(301) 228-2702

Replacement Glass
Lead Cames
Came Putty

Viking Sales
Victor, NY
585-924-8070

Allback linseed oil putty

West System Inc.
P.O. Box 665
Bay City, MI 48707
866-937-8797

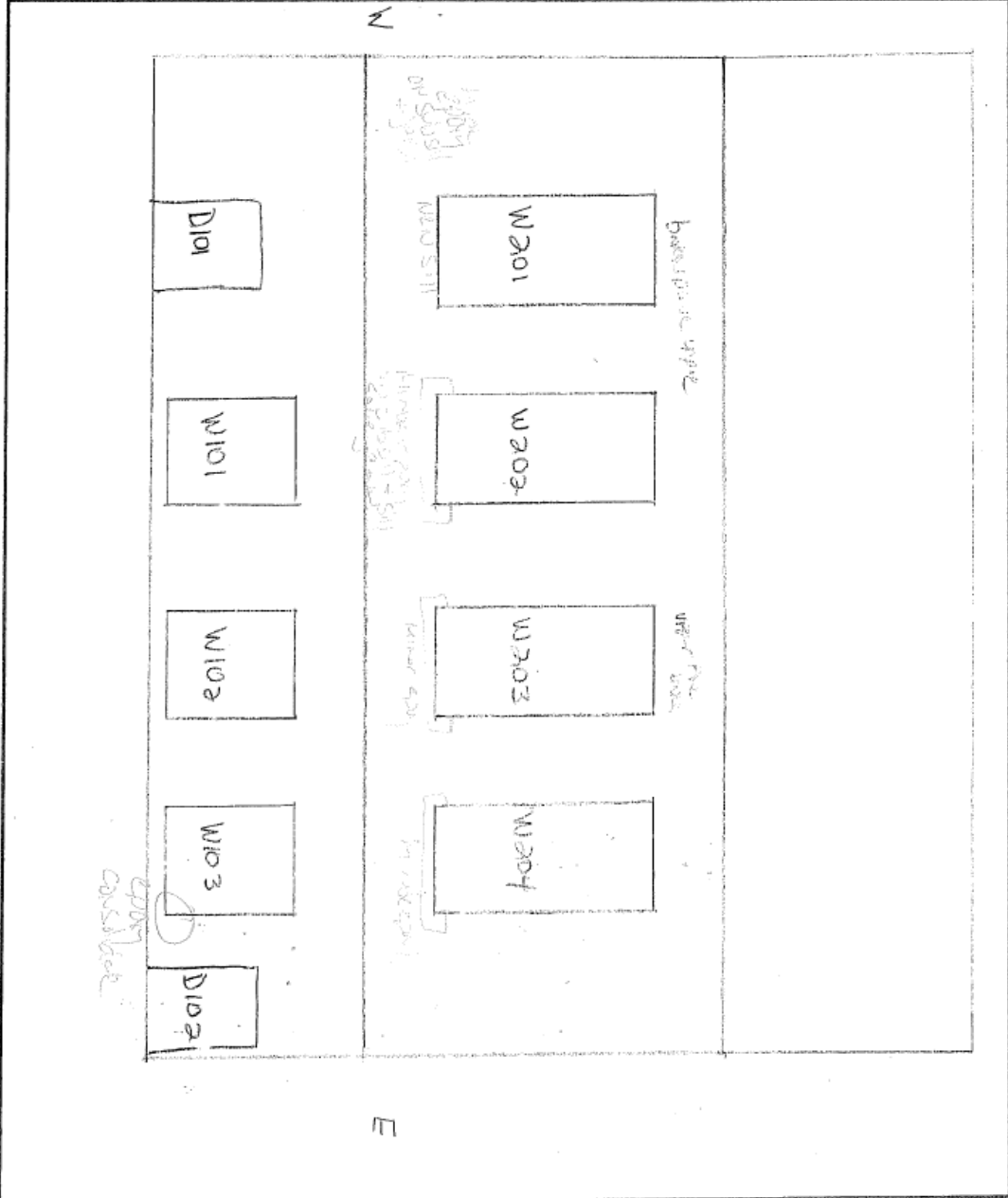
Epoxy
Filler

Woodworker's Supply
1125 Jay Lane
Graham, NC
336-578-3001

ProPrep scraping kits

Field Drawings

Park <i>Curtis Frennall</i>	NATIONAL PARK SERVICE		Sheet
Area	HISTORIC PRESERVATION TRAINING CENTER		of
Project	By	Checked	Pkg.
Feature <i>South Elevation</i>	Date	Date	Account



Park <u>C. M. F. Freewill</u>	NATIONAL PARK SERVICE		Sheet
Area	HISTORIC PRESERVATION TRAINING CENTER		of
Project	By	Checked	Pkg.
Feature <u>East Elevation</u>	Date	Date	Account

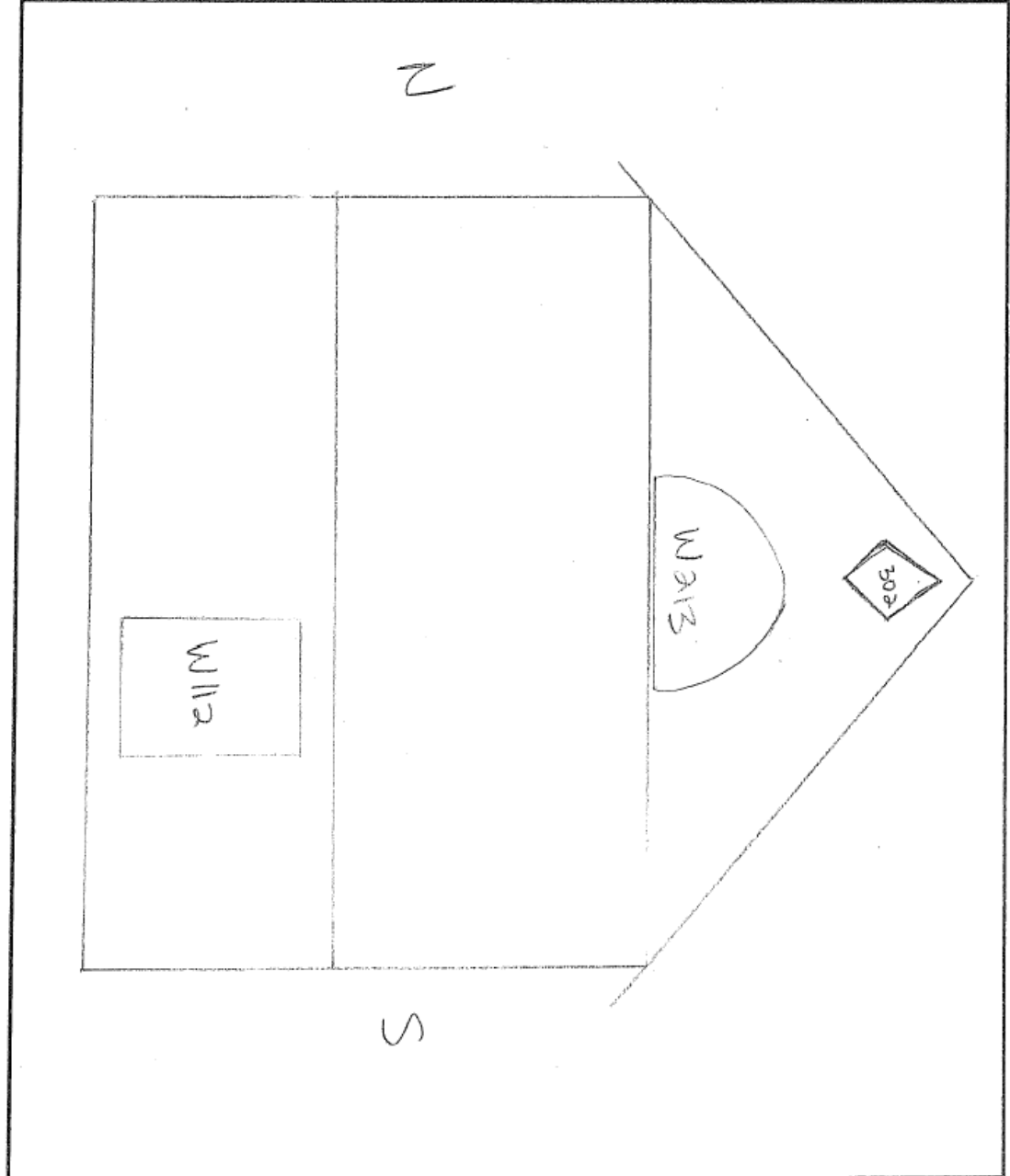
Hand-drawn sketch of the East Elevation of a building. The sketch shows a central section with three arched windows labeled 'W 104', 'W 105', and 'W 106' from left to right. To the right of these windows is a diamond-shaped feature labeled '301'. The building is oriented with 'S' at the top and 'N' at the bottom. The drawing is done in pencil on a grid background.

Park	Corkins Freewill		NATIONAL PARK SERVICE HISTORIC PRESERVATION TRAINING CENTER	Sheet
Area				of
Project	By	Checked	Pkg.	
Feature	Date	Date	Account	

North Elevation

W106 W107 W108 W109 W110 See Corkins as per end consultation and determine new plan and cost	W206 W209 W210 W211 W212 upper part of stone lower part of stone upper part of stone lower part of stone	W207 W208 W209 W210 W211 W212
--	--	---

Park	Cabrera Freeway		NATIONAL PARK SERVICE HISTORIC PRESERVATION TRAINING CENTER	Sheet
Area				of
Project	By	Checked	Pkg.	
Feature	Date	Date	Account	



NOTE: Regarding glass, all existing panes were reused unless marked with an H or an R
H = replaced with historic glass; R= replaced with reproduction glass

Park <u>HAFF</u>	NATIONAL PARK SERVICE		Sheet
Area <u>South Elevation</u>	HISTORIC PRESERVATION TRAINING CENTER		of
Project <u>CFWW</u>	By	Checked	Pkg.
Feature <u>W201 Upper Sash</u>	Date	Date	Account

REPAIR LEGEND

Epoxy Consolidant

Epoxy Filler

Wood Dutchman

Wood Component Replacement

Pin/Sprig Replacement

GLASS LEGEND

H Historic/existing glass

R Reproduction glass

WINDOW KEY

Window #: 201

Elevation #: S

Location: Upper

Glass OK

Note: Unless indicated with an 'I', all repairs are exterior

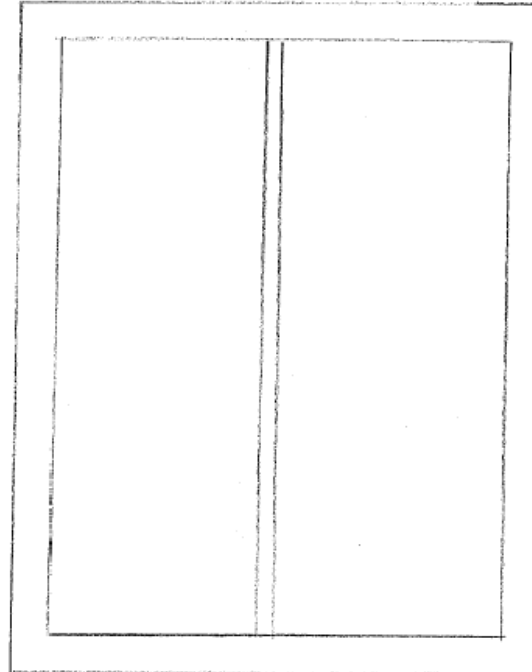
Park	HAFE		NATIONAL PARK SERVICE HISTORIC PRESERVATION TRAINING CENTER	Sheet
Area	South Elevation			of
Project	CFWW	By	Checked	Pkg.
Feature	Lower Sash	Date	Date	Account

REPAIR LEGEND

-  Epoxy Consolidant
-  Epoxy Filler
-  Wood Dutchman
-  Wood Component Replacement
-  Pin/Sprig Replacement

GLASS LEGEND

- H Historic/existing glass
- R Reproduction glass



WINDOW KEY

Window #: 201
 Elevation #: S
 Location: Lower

leaky original

Glass OK

Note: Unless indicated with an 'I', all repairs are exterior

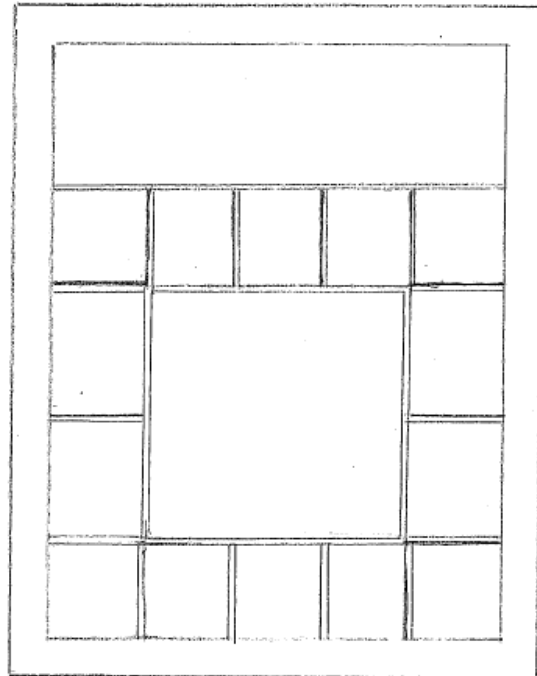
Park	HAF		NATIONAL PARK SERVICE HISTORIC PRESERVATION TRAINING CENTER	Sheet
Area	South Elevation			of
Project	CFWW	By	Checked	Pkg.
Feature	W202 Upper Sash	Date	Date	Account

REPAIR LEGEND

-  Epoxy Consolidant
-  Epoxy Filler
-  Wood Dutchman
-  Wood Component Replacement
-  Pin/Sprig Replacement

GLASS LEGEND

- H Historic/existing glass
- R Reproduction glass



WINDOW KEY

Window #: 202

Elevation #: S

Location: Upper

NO carpentry repairs
(just minor)

Glass OK

Note: Unless indicated with an 'I', all repairs are exterior

Park	HAF		NATIONAL PARK SERVICE HISTORIC PRESERVATION TRAINING CENTER	Sheet
Area	South Elevation			of
Project	CFWW	By	Checked	Pkg.
Feature	Window Lower South	Date	Date	Account

REPAIR LEGEND

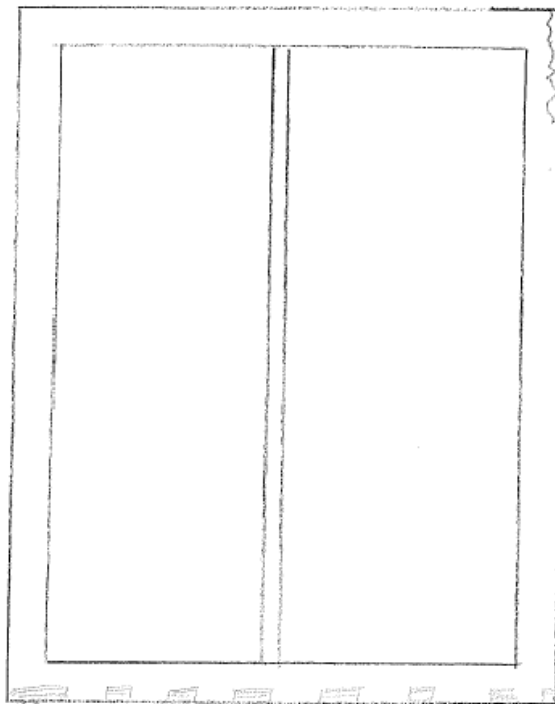
-  Epoxy Consolidant
-  Epoxy Filler
-  Wood Dutchman
-  Wood Component Replacement
-  Pin/Sprig Replacement
-  GWR

GLASS LEGEND

- H Historic/existing glass
- R Reproduction glass

WINDOW KEY

Window #: 202
 Elevation #: South
 Location: Lower



① timberflex
 ② crack glued

Glass OK

Note: Unless indicated with an 'I', all repairs are exterior

Park	HAFE		NATIONAL PARK SERVICE HISTORIC PRESERVATION TRAINING CENTER	Sheet
Area	South Elkhorn			of
Project	C. F. W. W.	By	Checked	Pkg.
Feature	W203 Upper Sash	Date	Date	Account

REPAIR LEGEND

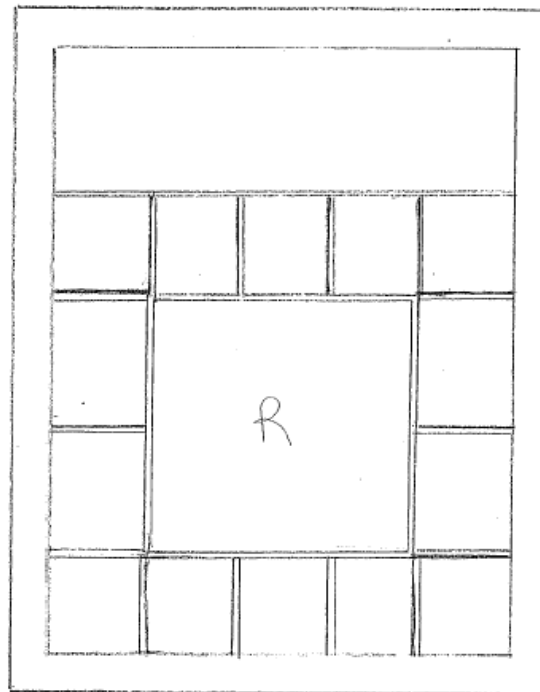
-  Epoxy Consolidant
-  Epoxy Filler
-  Wood Dutchman
-  Wood Component Replacement
-  Pin/Sprig Replacement

GLASS LEGEND

- H Historic/existing glass
- R Reproduction glass

WINDOW KEY

Window #: 203
 Elevation #: S
 Location: Upper



NO CARPENTRY REPAIRS

Note: Unless indicated with an 'I', all repairs are exterior

Park	HAF		NATIONAL PARK SERVICE HISTORIC PRESERVATION TRAINING CENTER	Sheet
Area	South Fluvation			of
Project	CFWW	By	Checked	Pkg.
Feature	W203 Lower	Date	Date	Account

REPAIR LEGEND

-  Epoxy Consolidant
-  Epoxy Filler
-  Wood Dutchman
-  Wood Component Replacement
-  Pin/Sprig Replacement

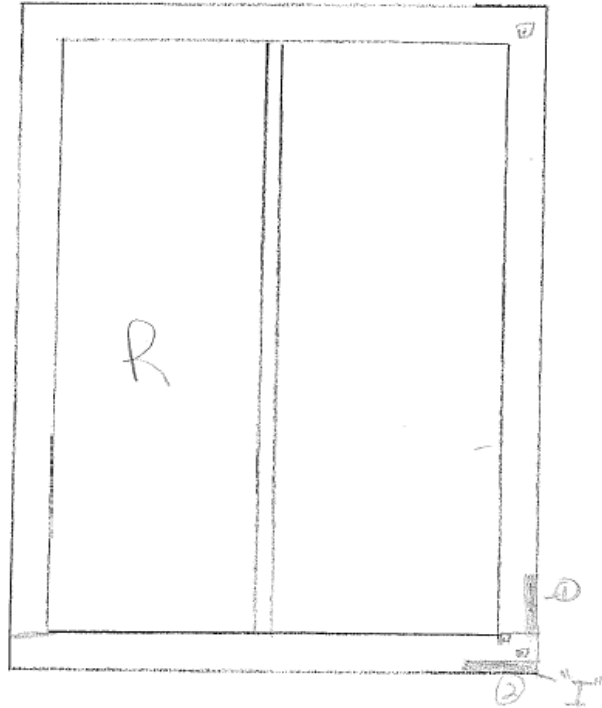
GLASS LEGEND

- H Historic/existing glass
- R Reproduction glass

WINDOW KEY

Window #: 203
Elevation #: South
Location: Lower

- ① Dutchman - east stile (interior pocket)
glue to interior stile
- ② Dutchman - bottom rail



Note: Unless indicated with an 'I', all repairs are exterior

Park	HAFE		NATIONAL PARK SERVICE HISTORIC PRESERVATION TRAINING CENTER	Sheet
Area	South Elevation			of
Project	CFWW	By	Checked	Pkg.
Feature	W204 Upper Sash	Date	Date	Account

REPAIR LEGEND

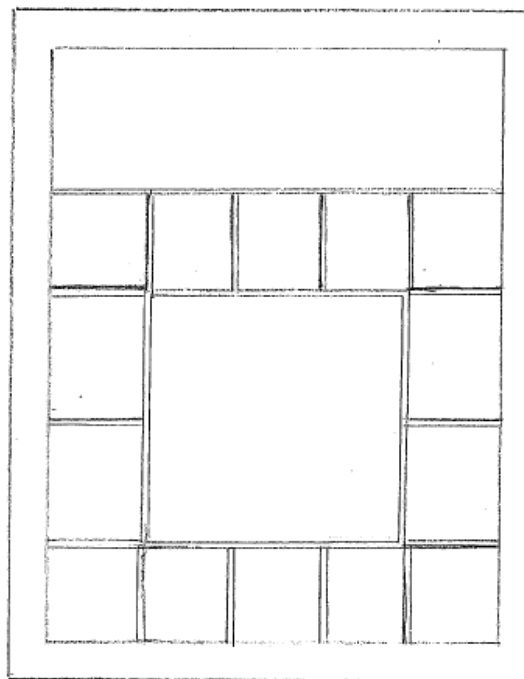
-  Epoxy Consolidant
-  Epoxy Filler
-  Wood Dutchman
-  Wood Component Replacement
-  Pin/Sprig Replacement

GLASS LEGEND

- H Historic/existing glass
- R Reproduction glass

WINDOW KEY

Window #: 204
 Elevation #: S
 Location: Upper



no carpentry repairs

Glass OK

Note: Unless indicated with an 'T', all repairs are exterior

Park	HAFE		NATIONAL PARK SERVICE HISTORIC PRESERVATION TRAINING CENTER	Sheet
Area	South Elevation			of
Project	CFWW	By	Checked	Pkg.
Feature	W204 Lower Sash	Date	Date	Account

REPAIR LEGEND

-  Epoxy Consolidant
-  Epoxy Filler
-  Wood Dutchman
-  Wood Component Replacement
-  Pin/Sprig Replacement

GLASS LEGEND

- H** Historic/existing glass
- R** Reproduction glass

WINDOW KEY

Window #: 204
 Elevation #: S
 Location: Lower

(end grain epoxy)

Glass OK

Note: Unless indicated with an 'I', all repairs are exterior

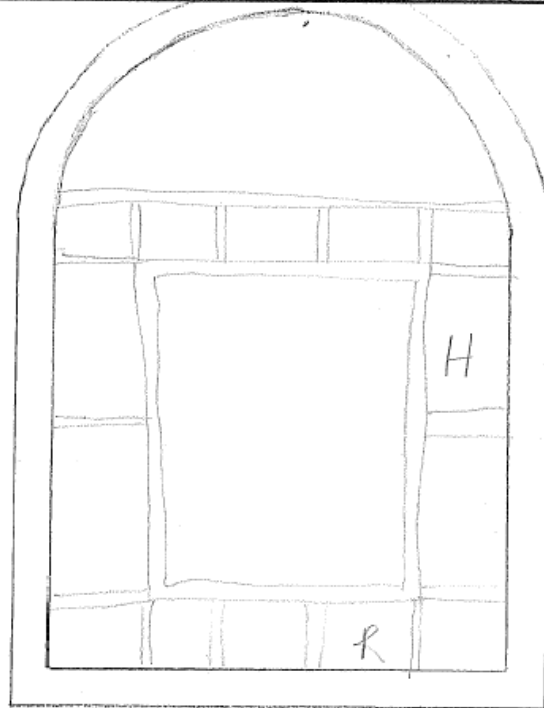
Park	HAFF		NATIONAL PARK SERVICE HISTORIC PRESERVATION TRAINING CENTER	Sheet
Area	East Elevation			of
Project	CFWW	By	Checked	Pkg.
Feature	W205 Upper Sash	Date	Date	Account

REPAIR LEGEND

-  Epoxy Consolidant
-  Epoxy Filler
-  Wood Dutchman
-  Wood Component Replacement
-  Pin/Sprig Replacement

GLASS LEGEND

- H Historic/existing glass
- R Reproduction glass



WINDOW KEY

Window #: 205

Elevation #: E

Location: Upper

(2) Carpenter repairs
just holes/joints filled w/ minox

Note: Unless indicated with an 'I', all repairs are exterior

Park	HAFE		NATIONAL PARK SERVICE HISTORIC PRESERVATION TRAINING CENTER	Sheet
Area	East Flank			of
Project	CFWW	By	Checked	Pkg.
Feature	W205 Lower Sash	Date	Date	Account

REPAIR LEGEND

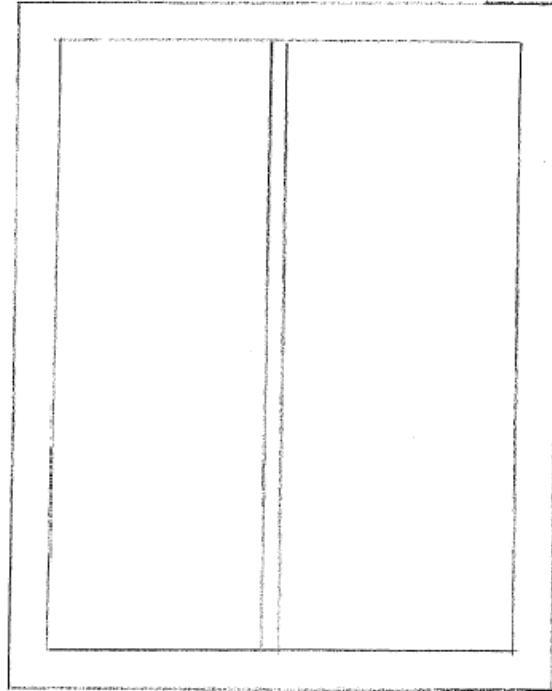
-  Epoxy Consolidant
-  Epoxy Filler
-  Wood Dutchman
-  Wood Component Replacement
-  Pin/Sprig Replacement

GLASS LEGEND

- H Historic/existing glass
- R Reproduction glass

WINDOW KEY

Window #: 205
 Elevation #: E
 Location: Lower



end grain repair

Glass OK

Note: Unless indicated with an 'I', all repairs are exterior

Park	HAFB		NATIONAL PARK SERVICE HISTORIC PRESERVATION TRAINING CENTER	Sheet
Area	East Elevation			of
Project	CFMNN	By	Checked	Pkg.
Feature	Window Lintel	Date	Date	Account

REPAIR LEGEND

-  Epoxy Consolidant
-  Epoxy Filler
-  Wood Dutchman
-  Wood Component Replacement
-  Pin/Sprig Replacement

GLASS LEGEND

- H Historic/existing glass
- R Reproduction glass

WINDOW KEY

Window #: 2016
 Elevation #: E
 Location: Window

NO carpentry repairs

Glass OK

Note: Unless indicated with an 'I', all repairs are exterior

Park	HAF		NATIONAL PARK SERVICE HISTORIC PRESERVATION TRAINING CENTER	Sheet
Area				of
Project	CEW	By	Checked	Pkg.
Feature	W 200A Upper	Date	Date	Account

REPAIR LEGEND

-  Epoxy Consolidant
-  Epoxy Filler
-  Wood Dutchman
-  Wood Component Replacement
-  Pin/Sprig Replacement
-  Glued

GLASS LEGEND

- H Historic/existing glass
- R Reproduction glass

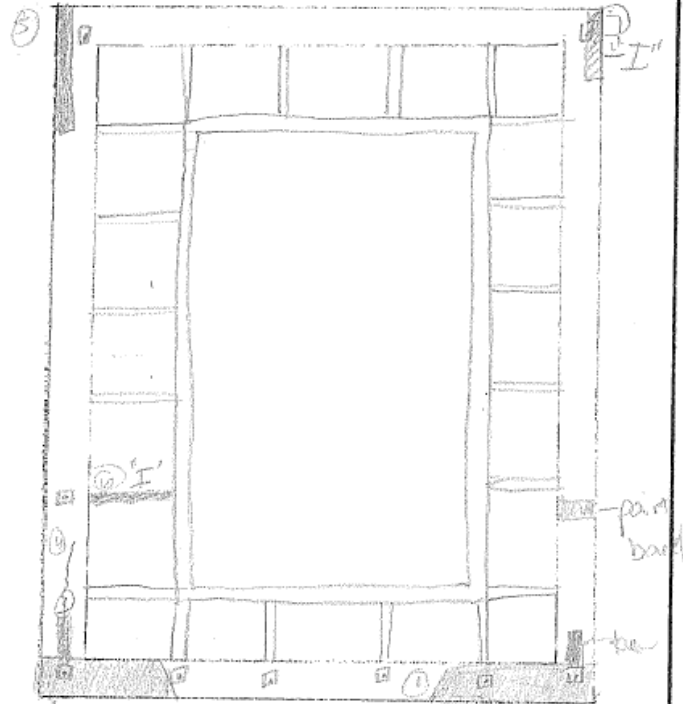
WINDOW KEY

Window #: 200A

Elevation #: East

Location: Upper

Glass OK



③ bottom rail + both tenons

① bottom rail + both tenons

③ - Dutchman tenon replacement

④ stile glued

⑤ Dutchman - west side

⑥ Dutchman - glazing side of window (interior)

⑦ Glazing top base stile - interior

Note: Unless indicated with an 'I', all repairs are exterior

Park	HAFE		NATIONAL PARK SERVICE HISTORIC PRESERVATION TRAINING CENTER	Sheet
Area	East Elevation			of
Project	CFWW	By	Checked	Pkg.
Feature	W206A Lower Sash	Date	Date	Account

REPAIR LEGEND

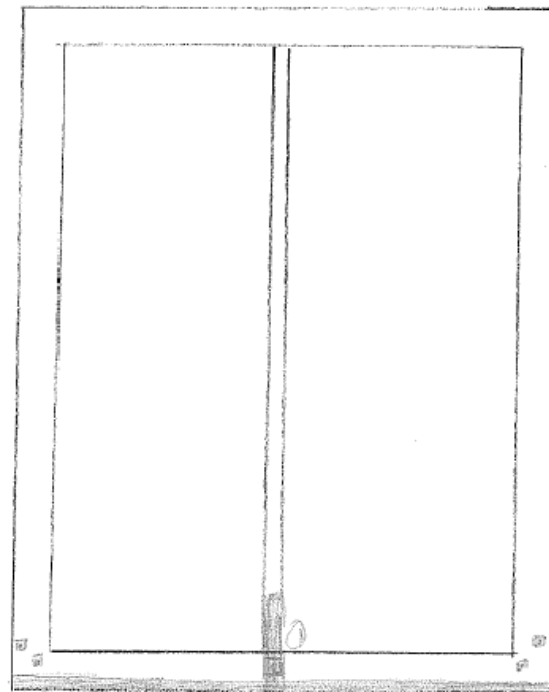
-  Epoxy Consolidant
-  Epoxy Filler
-  Wood Dutchman
-  Wood Component Replacement
-  Pin/Sprig Replacement

GLASS LEGEND

- H Historic/existing glass
- R Reproduction glass

WINDOW KEY

Window #: 206A
Elevation #: E
Location: Lower



① - known repair
② - Dutchman at bottom rail

end grain consolidated

Glass OK

Note: Unless indicated with an 'T', all repairs are exterior

Park	NATIONAL PARK SERVICE		Sheet
Area	HISTORIC PRESERVATION TRAINING CENTER		of
Project <i>CEW</i>	By	Checked	Pkg.
Feature <i>Window Upper</i>	Date	Date	Account

REPAIR LEGEND

-  Epoxy Consolidant
-  Epoxy Filler
-  Wood Dutchman
-  Wood Component Replacement
-  Pin/Sprig Replacement

GLASS LEGEND

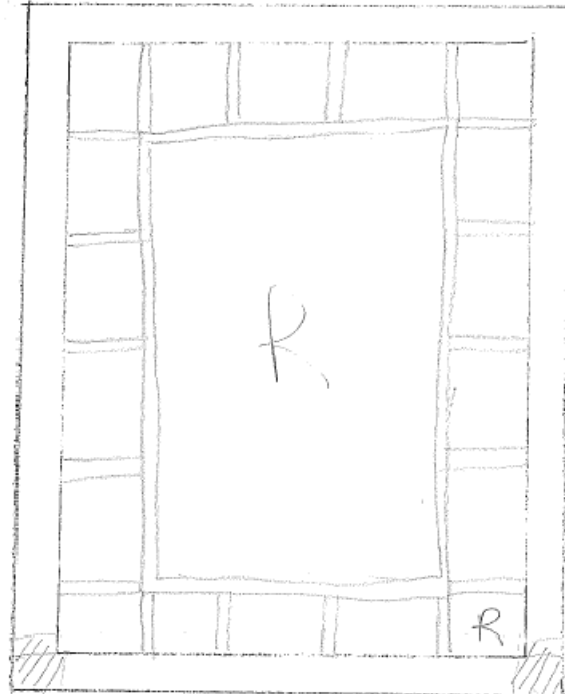
- H** Historic/existing glass
- R** Reproduction glass

WINDOW KEY

Window #: *204B*

Elevation #: *East*

Location: *Upper*



1-2 = New System Window - Dowetail joints

Note: Unless indicated with an 'T', all repairs are exterior

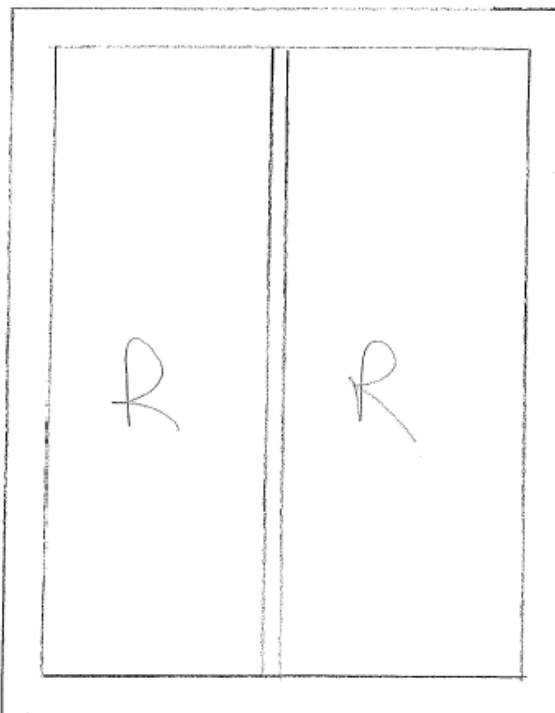
Park	HAFI		NATIONAL PARK SERVICE HISTORIC PRESERVATION TRAINING CENTER	Sheet
Area	East Elevation			of
Project	QFWW	By	Checked	Pkg.
Feature	W200B Lower Sash	Date	Date	Account

REPAIR LEGEND

-  Epoxy Consolidant
-  Epoxy Filler
-  Wood Dutchman
-  Wood Component Replacement
-  Pin/Sprig Replacement

GLASS LEGEND

- H** Historic/existing glass
- R** Reproduction glass



WINDOW KEY

Window #: 200B

Elevation #: E

Location: Lower

(end grain - poly)

Note: Unless indicated with an 'I', all repairs are exterior

Park	HAFÉ		NATIONAL PARK SERVICE HISTORIC PRESERVATION TRAINING CENTER	Sheet
Area	East Elevation			of
Project	CFWW	By	Checked	Pkg.
Feature	W207 Upper Sash	Date	Date	Account

REPAIR LEGEND

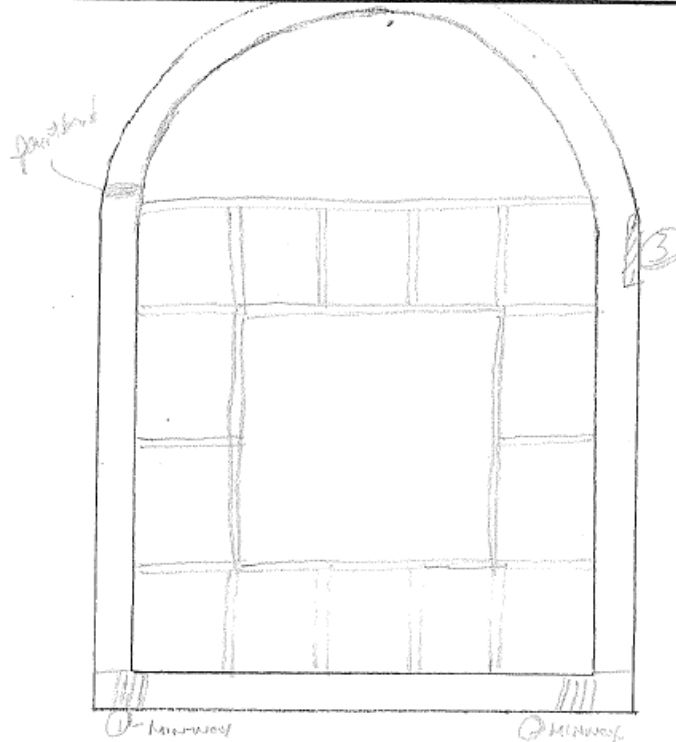
-  Epoxy Consolidant
-  Epoxy Filler
-  Wood Dutchman
-  Wood Component Replacement
-  Pin/Sprig Replacement

GLASS LEGEND

- H Historic/existing glass
- R Reproduction glass

WINDOW KEY

Window #: 207
Elevation #: East
Location: Upper



(1) - build-up frame
mainly just holes filled w/ mixway

(3) - part of sash cord pocket filled w/
topology

Glass OK

Note: Unless indicated with an 'I', all repairs are exterior

Park	HAF		NATIONAL PARK SERVICE HISTORIC PRESERVATION TRAINING CENTER	Sheet
Area	East Elevation			of
Project	CFWW	By	Checked	Pkg.
Feature	W207 Lower Sash	Date	Date	Account

REPAIR LEGEND

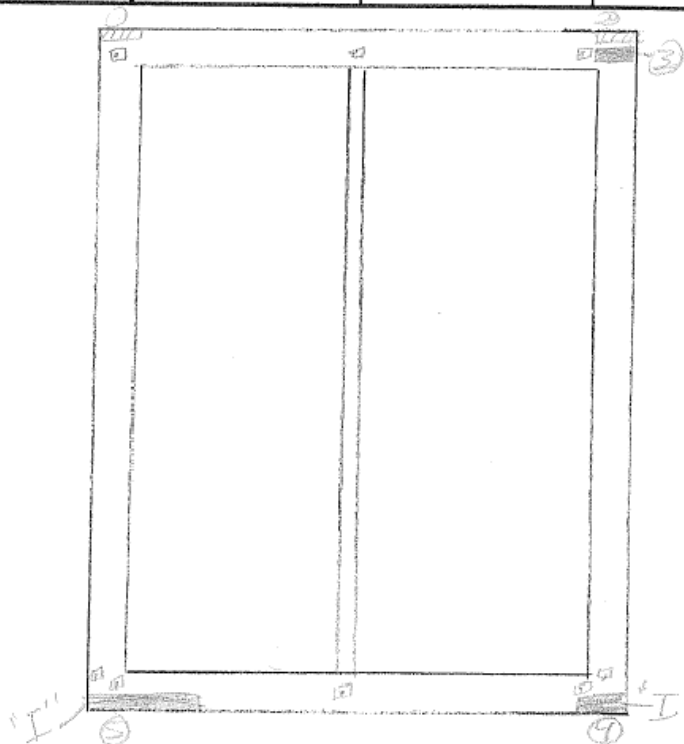
-  Epoxy Consolidant
-  Epoxy Filler
-  Wood Dutchman
-  Wood Component Replacement
-  Pin/Sprig Replacement

GLASS LEGEND

- H Historic/existing glass
- R Reproduction glass

WINDOW KEY

Window #: 207
 Elevation #: E
 Location: Lower



Glass OK

Note: Unless indicated with an 'I', all repairs are exterior

Park <u>HAF</u>	NATIONAL PARK SERVICE HISTORIC PRESERVATION TRAINING CENTER		Sheet
Area <u>North Elevation</u>			of
Project <u>CEWU</u>	By	Checked	Pkg.
Feature <u>W208 Upper Sash</u>	Date	Date	Account

REPAIR LEGEND

-  Epoxy Consolidant
-  Epoxy Filler
-  Wood Dutchman
-  Wood Component Replacement
-  Pin/Sprig Replacement

GLASS LEGEND

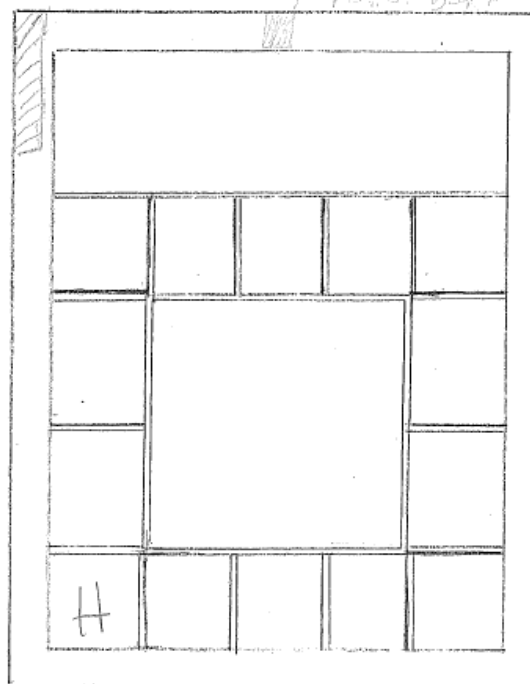
- H** Historic/existing glass
- R** Reproduction glass

WINDOW KEY

Window #: 208

Elevation #: N

Location: Upper



Note: Unless indicated with an 'I', all repairs are exterior

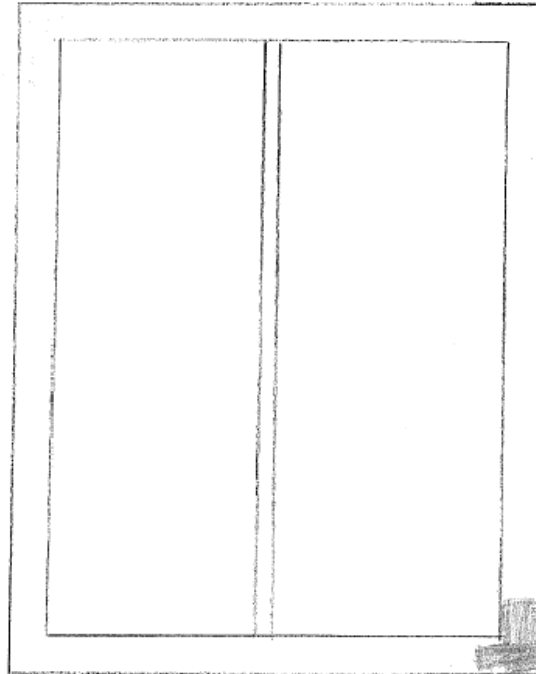
Park	HAFE		NATIONAL PARK SERVICE HISTORIC PRESERVATION TRAINING CENTER	Sheet
Area	North Elevation			of
Project	CFWW	By	Checked	Pkg.
Feature	W 208 Lower Sash	Date	Date	Account

REPAIR LEGEND

-  Epoxy Consolidant
-  Epoxy Filler
-  Wood Dutchman
-  Wood Component Replacement
-  Pin/Sprig Replacement

GLASS LEGEND

- H Historic/existing glass
- R Reproduction glass



WINDOW KEY

Window #: 208
 Elevation #: N
 Location: Lower

Q-Dutchman
Q-Dutchman

Glass OK

Note: Unless indicated with an 'I', all repairs are exterior

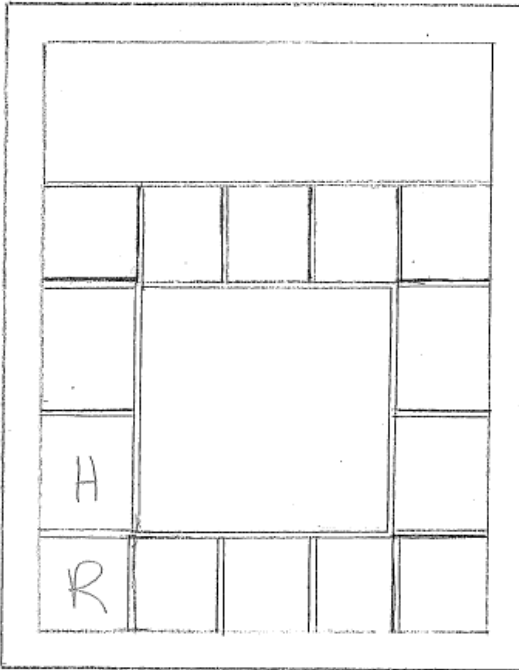
Park	HAFE		NATIONAL PARK SERVICE HISTORIC PRESERVATION TRAINING CENTER	Sheet
Area	North Elevation			of
Project	CFWW	By	Checked	Pkg.
Feature	W 209 Upper Sash	Date	Date	Account

REPAIR LEGEND

-  Epoxy Consolidant
-  Epoxy Filler
-  Wood Dutchman
-  Wood Component Replacement
-  Pin/Sprig Replacement

GLASS LEGEND

- H Historic/existing glass
- R Reproduction glass



WINDOW KEY

Window #: 209
Elevation #: North
Location: Upper

NO carpentry repairs

Note: Unless indicated with an 'T', all repairs are exterior

Park	HAFE		NATIONAL PARK SERVICE HISTORIC PRESERVATION TRAINING CENTER	Sheet
Area	North Elevation			of
Project	CFWW	By	Checked	Pkg.
Feature	W209 Lower Sash	Date	Date	Account

REPAIR LEGEND

-  Epoxy Consolidant
-  Epoxy Filler
-  Wood Dutchman
-  Wood Component Replacement
-  Pin/Sprig Replacement

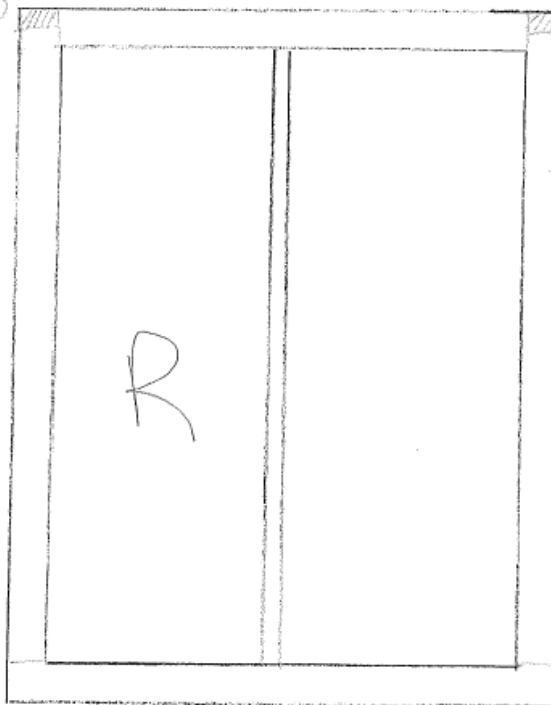
GLASS LEGEND

- H** Historic/existing glass
- R** Reproduction glass

WINDOW KEY

Window #: 209
 Elevation #: N
 Location: Lower

1x2" epoxy edge grain



Note: Unless indicated with an 'I', all repairs are exterior

Park	HAFV		
Area	North Elevation		
Project	CEWM	By	Checked
Feature	W210 Upper Sash	Date	Date
		Pkg.	Account

REPAIR LEGEND

-  Epoxy Consolidant
-  Epoxy Filler
-  Wood Dutchman
-  Wood Component Replacement
-  Pin/Sprig Replacement

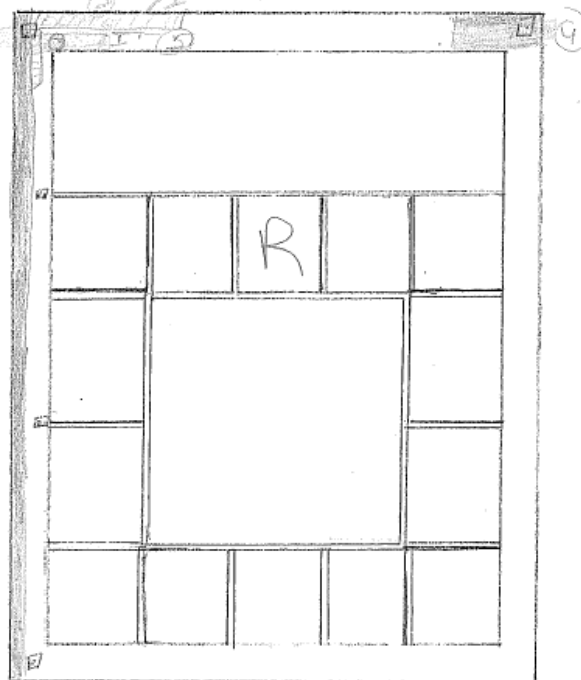
GLASS LEGEND

- H Historic/existing glass
- R Reproduction glass

WINDOW KEY

Window #: 210
 Elevation #: North
 Location: Upper

- ① Dutchman west side
- ② crack treated wood
- ③ - timberflex system
- ④ Dutchman thru to frame (East side top Rail)
- ⑤ Dutchman thru to frame (West side top rail)



Note: Unless indicated with an 'I', all repairs are exterior

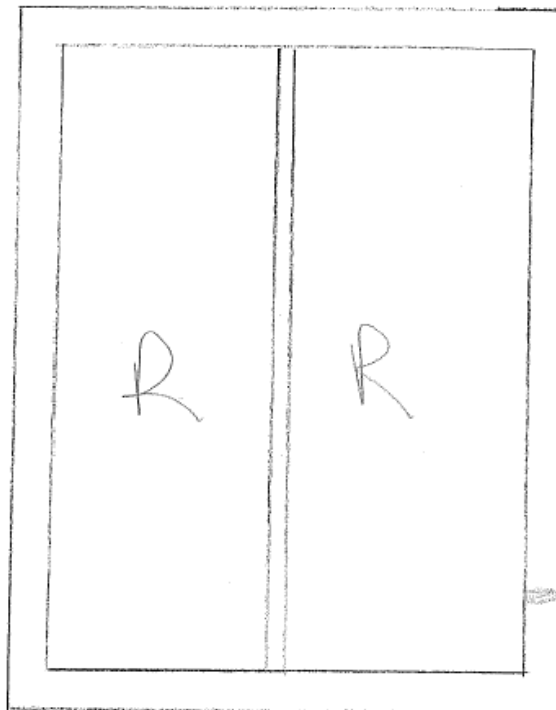
Park	HAFE		NATIONAL PARK SERVICE HISTORIC PRESERVATION TRAINING CENTER	Sheet
Area	North Elevation			of
Project	CEWW	By	Checked	Pkg.
Feature	W210 Lower Sash	Date	Date	Account

REPAIR LEGEND

-  Epoxy Consolidant
-  Epoxy Filler
-  Wood Dutchman
-  Wood Component Replacement
-  Pin/Sprig Replacement

GLASS LEGEND

- H Historic/existing glass
- R Reproduction glass



WINDOW KEY

Window #: 210
 Elevation #: N
 Location: Lower

(end glazing)

Note: Unless indicated with an 'I', all repairs are exterior

Park	HAFE		NATIONAL PARK SERVICE HISTORIC PRESERVATION TRAINING CENTER	Sheet
Area	North Elevation			of
Project	CFWW	By	Checked	Pkg.
Feature	W210 Lower Sash	Date	Date	Account

REPAIR LEGEND

-  Epoxy Consolidant
-  Epoxy Filler
-  Wood Dutchman
-  Wood Component Replacement
-  Pin/Sprig Replacement

GLASS LEGEND

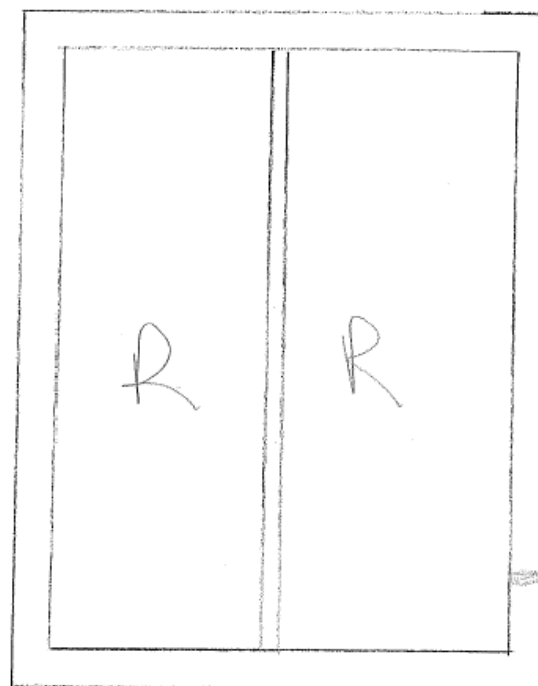
- H Historic/existing glass
- R Reproduction glass

WINDOW KEY

Window #: 210

Elevation #: N

Location: Lower



(end glazing)

Note: Unless indicated with an 'I', all repairs are exterior

Park	HAFE		NATIONAL PARK SERVICE HISTORIC PRESERVATION TRAINING CENTER	Sheet
Area	North Elevation			of
Project	CFWW	By	Checked	Pkg.
Feature	W211 Upper Sash	Date	Date	Account

REPAIR LEGEND

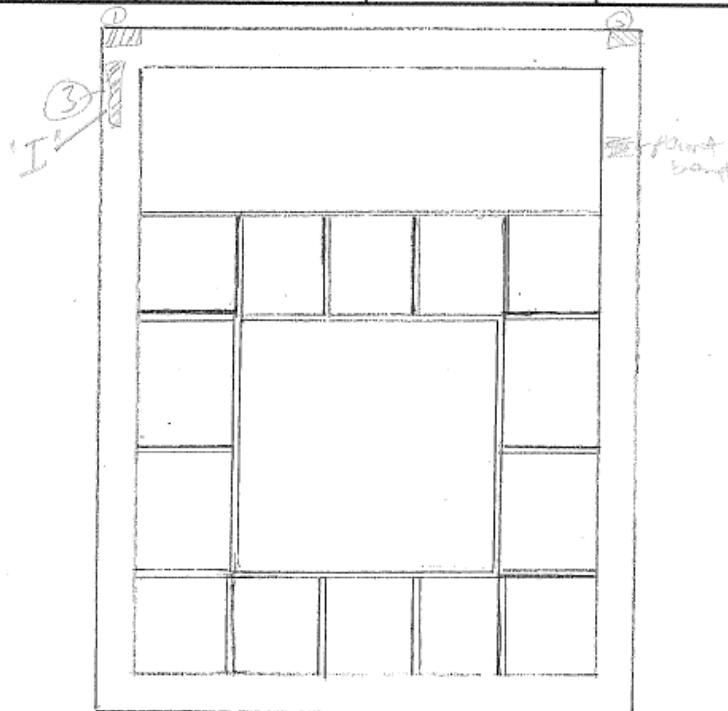
-  Epoxy Consolidant
-  Epoxy Filler
-  Wood Dutchman
-  Wood Component Replacement
-  Pin/Sprig Replacement

GLASS LEGEND

- H Historic/existing glass
- R Reproduction glass

WINDOW KEY

Window #: 211
Elevation #: North
Location: Upper



(1+2) end joint treated with epoxy (west)

② = Crack filled with epoxy (west) on WEST side (interior side)

Glass OK

Note: Unless indicated with an 'I', all repairs are exterior

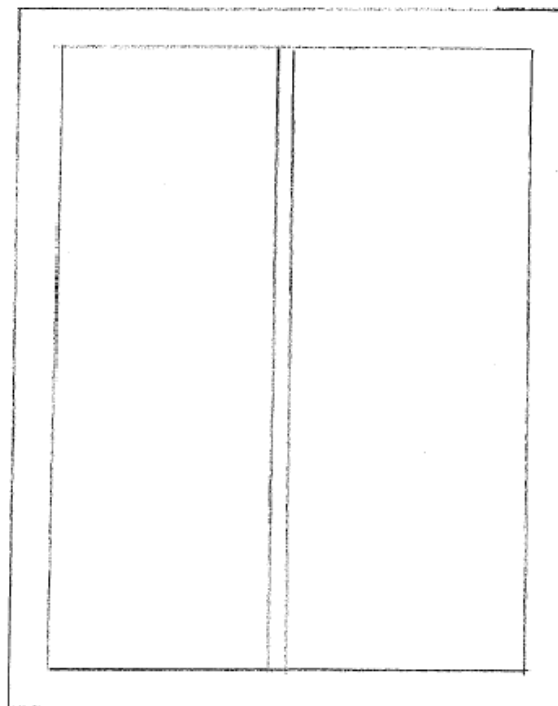
Park	HAFE		NATIONAL PARK SERVICE HISTORIC PRESERVATION TRAINING CENTER	Sheet
Area	North Elevation			of
Project	CFWW	By	Checked	Pkg.
Feature	Wall Lower Sash	Date	Date	Account

REPAIR LEGEND

-  Epoxy Consolidant
-  Epoxy Filler
-  Wood Dutchman
-  Wood Component Replacement
-  Pin/Sprig Replacement

GLASS LEGEND

- H Historic/existing glass
- R Reproduction glass



WINDOW KEY

Window #: 211
 Elevation #: N
 Location: Lower

(end of window pane)

Glass OK

Note: Unless indicated with an 'I', all repairs are exterior

Park	HAFE		NATIONAL PARK SERVICE HISTORIC PRESERVATION TRAINING CENTER	Sheet
Area	Norm Elevation			of
Project	CEMN	By	Checked	Pkg.
Feature	W212 Upper Sash	Date	Date	Account

REPAIR LEGEND

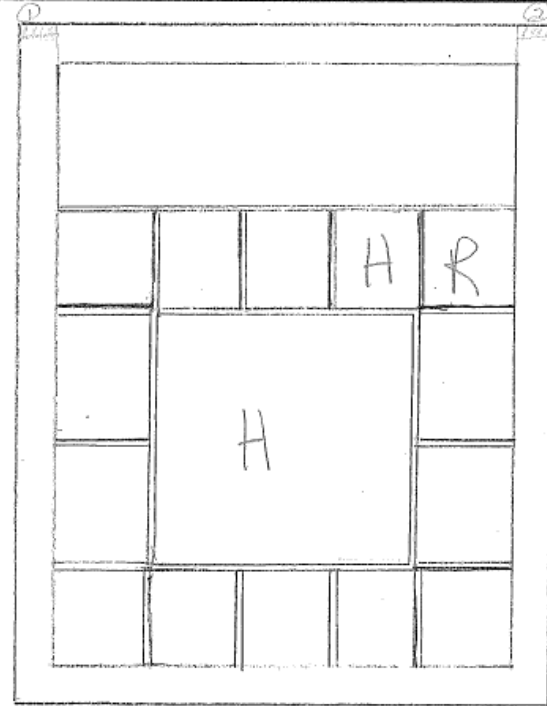
-  Epoxy Consolidant
-  Epoxy Filler
-  Wood Dutchman
-  Wood Component Replacement
-  Pin/Sprig Replacement

GLASS LEGEND

- H Historic/existing glass
- R Reproduction glass

WINDOW KEY

Window #: 212
Elevation #: Norm
Location: Upper



H2 epoxy on end grain

Note: Unless indicated with an 'I', all repairs are exterior

Park	HAFE	NATIONAL PARK SERVICE HISTORIC PRESERVATION TRAINING CENTER		Sheet
Area	North Elevation			of
Project	CFWW	By	Checked	Pkg.
Feature	Window Lower Sash	Date	Date	Account

REPAIR LEGEND

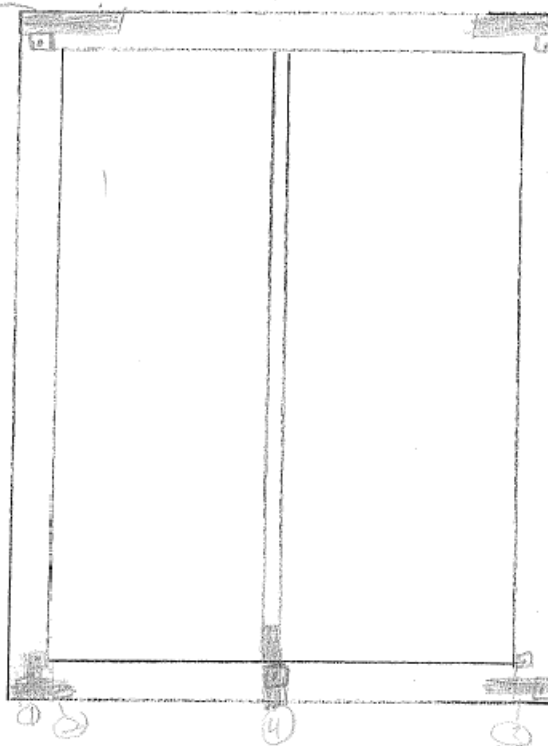
-  Epoxy Consolidant
-  Epoxy Filler
-  Wood Dutchman
-  Wood Component Replacement
-  Pin/Sprig Replacement

GLASS LEGEND

- H** Historic/existing glass
- R** Reproduction glass

WINDOW KEY

Window #: 212
 Elevation #: N
 Location: Lower



- ① dovetail repaired (new)
- ② tenon repaired
- ③ tenon repaired

Glass OK

Note: Unless indicated with an 'I', all repairs are exterior

Safety

**Preservation and Repair of the Windows and
Doors of the Curtis Freewill Baptist Church**

Phase II

HAFE Package 416/PMIS 99680

**HARPERS FERRY NATIONAL HISTORICAL PARK
Harpers Ferry, WV**

PROJECT SAFETY PLAN



HISTORIC PRESERVATION TRAINING CENTER

Department of Interior

National Park Service

4801A Urbana Pike

Frederick, MD 21704

CERTIFICATE OF COMPLETION

Project Title:

**Preservation and Repair of the Curtis Freewill Baptist Church Windows and Doors
Phase II**

Project Location:

**Harpers Ferry National Historical Park
Harpers Ferry, West Virginia**

General Description of Scope of Work: **Repair and paint windows and doors**

Project Leader: **Sharon Feeney**

Alternate Project Leader" **Click here and type in alternate's name"**

Project Supervisor: **Chris McGuigan**

Start Date: **November 28, 2005**

Estimated Completion Date: **July 28, 2005**

Approvals_____Date:_____

Project Supervisor

_____Date:_____

Safety Manager

_____Date:_____

Deputy Superintendent

CREW REVIEW SIGN-OFF SHEET

After the Project Leader has reviewed the Safety Plan with the crew, the crewmembers shall sign and date this sheet to verify their participation.

Project Leader

Crewmembers: _____ Date: _____

COMPETENT PERSON DESIGNATION

The following person(s) shall be the Competent Person for the following project and will perform the duties assigned in the applicable safety modules.

Project: ***Preservation and Repair of Curtis Freewill Baptist Church Windows and Doors***

Module	Competent Person	Module	Competent Person
Asbestos	McGuigan	PPE	Feeney
Chainsaw		Respiratory Protection	Feeney
Compressed Gas		Roadway Safety	Feeney
Confined Space		Sawmill	
Crane/Hoist/Lift		Scaffold	Feeney
Electrical	Feeney	Silicates	Feeney
Extreme Weather	Feeney	Skid Steer loader	
Fall Protection	Feeney	Stationary power equipment	Feeney
Fire Extinguisher	Feeney	Trenching	
First Aid/BBP	Feeney	Vaccines	
General Jobsite	Feeney	Vehicles	Feeney
Grinder-Handheld		Visitors Safety	Feeney
Grinder-Stationary			
Hand/Power Tool	Feeney		
Hardhat	Feeney		
HazComm	Feeney		
HazMat Survey	Feeney		
Hearing Conservation	Feeney		
Lead	Feeney		
Lockout-Tagout	Feeney		
Machine Guarding	Feeney		
Material Handling	Feeney		
Medical Monitoring	Feeney		
Metal Brake			
Natural Hazard	Feeney		
Office Safety	Feeney		

PROJECT HAZARD ANALYSIS QUESTIONNAIRE

	POSSIBLE RISK	YES	NO
General Jobsite Safety	Has a Hazardous Materials survey been performed and a copy given to the HPTC. If not, is a survey necessary?	Hazardous Material Survey module (pages Error! Bookmark not defined. - Error! Bookmark not defined.)	x
	Will any aspect of the project be taking place outside?	Extreme Weather Module (pages Error! Bookmark not defined. through Error! Bookmark not defined.) x	
	Will the job be taking place in a wooded/grassy/ overgrown location where rodents, snakes, poison ivy, ticks or chiggers or other irritating insects may be a problem?	Natural Hazards Module (pages Error! Bookmark not defined. - Error! Bookmark not defined.) and Vaccines Module x	
	Will any part of the project be located directly adjacent to an active roadway?	Roadway Safety Module (pages Error! Bookmark not defined. - Error! Bookmark not defined.) x	
	Will material be handled at or above head level, will scaffold be erected on site, will there be unstable materials overhead or will there be a danger of slips or falls during the course of the project?	Hard Hats Module (pages Error! Bookmark not defined.-Error! Bookmark not defined.) x	
	Will any part of the project be taking place in a “confined space”? Click here to view the definition of a confined space	Confined Space Module (pages)	x
	Will crewmembers be driving vehicles to get to the jobsite or hotel or to get materials?	Vehicle Safety and Inspection Module (pages Error! Bookmark not defined.-Error! Bookmark not defined.) x	
	Is it possible the public will be able to access the site during normal work hours? After hours?	Visitor Safety Module (pages Error! Bookmark not defined.-Error! Bookmark not defined.) x	
	Will electrical power be utilized?	Electrical Safety Module (pages Error! Bookmark not defined.-Error! Bookmark not defined.) x	

	POSSIBLE RISK	YES	NO
	Is there any risk of fire, no matter how small, at the project site, or will the project be taking place at a facility where fire extinguishers are present?	Fire Extinguishers Module (pages Error! Bookmark not defined. - Error! Bookmark not defined.) x	
	Is there a possibility of any injury or exposure to human body fluids (i.e. blood from an injury) during this project?	First Aid and Bloodborne Pathogens Module (pages Error! Bookmark not defined. - Error! Bookmark not defined.) x	
	Will tools or equipment be used longer than the Permissible Exposure Limits as shown in Chart 2? Click here to view chart.	Hearing Conservation Module (pages Error! Bookmark not defined. - Error! Bookmark not defined.) x	
Personal Protection Equip	Will any materials be disturbed during the course of this project such as: paint, plaster, treated lumber, mold.	Respiratory Protection Module (pages Error! Bookmark not defined. - Error! Bookmark not defined.) x	
	Will lead paint abatement or disturbance of lead-painted surfaces occur during the project?	Medical Monitoring Module (pages Error! Bookmark not defined. - Error! Bookmark not defined.) and Lead Module (pages Error! Bookmark not defined. - Error! Bookmark not defined.). Complete a Lead Awareness Plan . x	
	Will there be a danger of eye injury due to chemicals or flying particles or will there be a danger of hand lacerations or slivers from rough lumber or sharp stone edges?	Personal Protection Equipment Module (pages Error! Bookmark not defined. - Error! Bookmark not defined.) x	
	Will an HPTC employee perform a mortar analysis during this project?	Laboratory Chemical Hygiene Module (pages	x
	Will any materials shown in Chart 1 in the Asbestos Section be disturbed during the project? Click here to view the list of materials. Or has a Hazardous Materials Survey disclosed the presence of Asbestos?	Asbestos Exposure Module (pages Error! Bookmark not defined. - Error! Bookmark not defined.). Complete an Asbestos Management Plan x	
	Will a skid-steer loader be employed during the course of the project?	Skid Steer Loader Safety Module (pages)	x

	POSSIBLE RISK	YES	NO
	Will any of the work be taking place more than 6' off the ground?	Fall Protection Module (pages Error! Bookmark not defined.-Error! Bookmark not defined.). Complete a Fall Protection Plan . x	
Fall Safety and Heavy Equipment	Will scaffolding or ladders be required to access any aspects of the project?	Scaffold & Ladder Safety Module (pages Error! Bookmark not defined.-Error! Bookmark not defined.) x	
	Will the scaffolding be left up longer than one day?	General Jobsite Safety Module (pages Error! Bookmark not defined.-Error! Bookmark not defined.) x	
	Will a crane, hoist or aerial lift be required to access any areas or to move materials?	Crane, Hoist, Aerial Lift Safety Module (pages; Common Hand Signals (pages)	x
	Will there be any trenching or excavating performed or will any part of the job be performed underground in an unstable area such as a vault?	Trenching & Excavating Module (pages)	x
	Will any hand or power tools be used during this project?	Hand & Power Tools Module (pages Error! Bookmark not defined.-Error! Bookmark not defined.)and Machine Guarding Module (pages Error! Bookmark not defined.-Error! Bookmark not defined.) and Lockout/Tagout Module (pages Error! Bookmark not defined.-Error! Bookmark not defined.) x	
	Will there be any welding or soldering on this project or will compressed gas be used in any other manner, such as to power portable heaters?	Compressed Gas/ Welding and Soldering Module (pages	x

	POSSIBLE RISK	YES	NO
Tools and Materials	Will any flammable materials be used and/or stored on the jobsite including paint thinner, xylene, paint stripper or gasoline or compressed gas, etc.?	Hazard Communication Module (pages Error! Bookmark not defined. - Error! Bookmark not defined.) and Material Handling and Storage Module (pages Error! Bookmark not defined. - Error! Bookmark not defined.) x	
	Will a visibly unstable structure be addressed during this project	General Jobsite Safety Module (Error! Bookmark not defined. - Error! Bookmark not defined.)	x
	Will any stationary equipment located at the Jenkins facility, in the client's facility, or in the field be utilized during this project?	Stationary Equipment Module (Under Development) (pages Error! Bookmark not defined. - Error! Bookmark not defined.) x	
	Will a chainsaw be used for any part of this project?	Chainsaw Safety Module (pages)	x
	Will a metal brake be used for any part of this project?	Metal Brake Safety Module (Under Development) (pages)	x
	Will the portable sawmill be used on this project?	Sawmill Module (pages)	x

Lead Compliance Plan

November 28, 2005

This plan has been developed to comply with the OSHA Construction Lead Standard, 29 CFR 1926.62.

1. Location of Project

This job will take place both on-site at Curtis Freewill Baptist Church, Harpers Ferry, WV and at the Jenkins Cannery, Frederick, Maryland. Lead inspection performed by Engineering Consulting Services, LTD did indicate the presence of lead-based paint. The existence of lead-based paint represents a hazard to workers.

2. Brief Description of the Job

This job is not a total abatement. The disturbance of the lead-based paint will be caused by six actions: 1) removal of historic window sash, 2) off-site abatement of historic window sash, 3) removal of historic components for repair, 4) off-site abatement of those components which need to be repaired, 5) wet scraping of deteriorated painted surfaces in preparation for recoating, and 6) the sanding of sound paint and exposed substrate.

3. Schedule

The schedule of work will be intermittent. The removal of historic fabric will begin the week of November 28, 2005. Work at both sites is scheduled to continue through July, 2006.

4. Equipment and Materials

Various profile hand scrapers and hand held misters will be used to damp scrape the painted surfaces. All sanding on site will be performed by hand using various grits of sand paper. Sanders attached to a HEPA vacuum will be used to sand the flat surfaces of the historic sash at the Jenkins facility. Profiled surfaces will be sanded by hand.

A HEPA vacuum will be used for all vacuuming activities. All window components will be washed with a trisodium phosphate (TSP) solution after being scraped and sanded.

5. Crew

All of the following crewmembers will be involved in both the removal of historic components and the surface preparation of lead-based paint coated surfaces. All of the crewmembers have attended the one-day lead-paint abatement training for workers and are certified by the state of Maryland.

6. Competent Person

Sharon Feeney, who has successfully completed the 40-hour lead-based paint abatement for supervisors training course, will be onsite and will act as the competent person for occupational health and safety issues. Sharon will conduct daily inspections of the work areas to ensure that control measures, work practices, personal protective equipment, and hygiene facilities are used as prescribed in this document.

7. Control Measures

The on-site painted surfaces are in fair condition. Approximately 30 to 35 percent of the paint will be removed. The removed historic window sash will scraped to bare wood.

On site, geo-textile fabric will be installed on the ground inside the fenced area prior to the start of any work for containment purposes. As components are removed they will be wrapped in polyethylene as a containment measure. All openings will be covered with polyethylene sheeting to prevent lead dust from entering the interior. Polyethylene sheeting will also cover the ground surfaces of the interior as well as canvas tarps.

Surface preparation for painting on site will be a two step process: 1) surfaces will be wet scraped, then 2) sanded by hand. All scraping and sanding of removed sash components will be conducted in the Jenkins Shop lead facility. Shrouded sanders attached to a HEPA vacuum will be used to sand the flat surfaces of the historic sash at the Jenkins facility. Profiled surfaces will be sanded by hand.

To reduce generation of lead dust in the work areas, paint chips and dust will be vacuumed on at least a daily basis with HEPA filtered vacuums. Final cleaning at the Jenkins Shop facility will be accomplished by HEPA vacuuming alternated with wet mopping. The use of HEPA vacuums and wet cleaning methods will minimize worker exposures.

8. Technology Considered in Meeting the Permissible Exposure Limit

The *HUD Guidelines for the Evaluation and Control of Lead Hazards in Housing* and other publications were reviewed to determine the appropriate engineering controls to be used in this project. The only specialized equipment that will be utilized for this project is HEPA-filtered vacuum cleaners and hand held sanders equipped with vacuum hook-up. Hand held misters will be used for dampening surfaces prior to scraping. Natural ventilation will be utilized, as mechanical ventilation with HEPA-filtered exhaust fans has not been found to reduce worker lead exposures with the methods that will be used during this project.

9. Respirators

All individuals in the work area will be provided with a half-mask, air-purifying respirator equipped with HEPA cartridges or a powered air-purifying respirator if so requested.

Respirators will be required during historic component removal, surface preparation for painting, manual scraping, sanding, cleaning activities, and final cleanup. Respirator use during other activities, including initial setup (such as laying down plastic for containment), and enclosure and encapsulation after surface preparation is not necessary, *unless* the workers nearby (same interior room or outside wall) are performing activities for which respirators are required.

10. Protective Clothing

Disposable protective clothing will be worn at all times inside the work area. Protective clothing will be made of Tyvek®. Protective clothing will always be HEPA vacuumed before it is removed.

11. Hygiene Facilities

Workers will use the Locker/Changing Room when entering the Jenkins lead facility. After putting on their protective suits and respirators, workers will enter the Work Area. Workers will clean their protective suits with the HEPA vacuum prior to leaving the Work Area and entering the Wash-Down Area. Once in the Wash-Down Area, workers will remove their protective suits and respirators for temporary storage. Hand washing facilities, located in the Jenkins lead facility restroom will be used to decontaminate workers. The restroom contains one sink, one toilet and one shower. Workers will then enter the Locker/Change Area to exit the suite.

After work is complete, the Work Area will be HEPA vacuumed and mopped down.

On site, workers will clean their protective suits with the HEPA vacuum before removal. Suits and respirators will be stored within the designated work area after removal. Containers of warm soapy water will be available on site for hand washing. Restrooms are also available on the ground floor of the Curtis Freewill Church for clean-up.

See attached Protocols

12. Air Monitoring Data

For each individual task, i.e., damp scraping and sanding, air monitoring was performed both on site and at the Jenkins facility. Air monitors were worn by workers performing the activities and also a monitor was set to monitor the area downwind from the scraping/sanding location. The results are as follows: Lead dust concentrations were measured at about 16% of the OSHA action level and about 10% of the TWA permissible exposure limit. The download area sample did not have measurable amounts of lead dust. The 2 hour period during hand scraping at the Jenkins facility produced lead dust concentrations at 36ug/M. If this procedure was conducted throughout a full shift the exposure is likely to exceed the AL of 30ug/M. Use of the orbital sander produced a high lead dust concentration even with HEPA vacuum and HEPA filtration dust collector. Power sanding of lead paint coated surfaces has the potential to result in exposure well above the TWA PEL of 50ug/M even after only a few hours of sanding.

The PAPR and half-face air purifying respirators used by NPS personnel during the lead-paint work monitored will provide adequate protection factors to maintain actual lead exposure below the AL providing respirators are properly fitted and maintained in good condition.

13. Medical Surveillance

A medical surveillance plan is in effect for the work crew. The blood lead level testing will be performed by Corporate Health Services, a division of Frederick Memorial Hospital, located in Frederick, MD (301)698-3003. All workers will have their blood lead level tested before a project that disturbs lead-based paint begins. This baseline blood lead level will be compared to the blood lead level taken after 28 working days in a lead risk environment. A final blood lead level will be taken at the completion of the project. Worker blood lead increases of 10 ug/dl or more will trigger an investigation of protective equipment and work practices. All workers are informed of their blood lead levels as soon as they are received.

14. Training

All workers have been trained using the one-day EPA Worker Training Curriculum. The training was conducted by Leadtec Services, Inc. In addition, each employee has been given a copy of this plan and a daily protocol guide which outlines specific hygiene and work task techniques employed by each worker.

15. Disposal of Hazardous Waste

Waste and debris should be placed in appropriate sealed containers (the metal drums) located in the lead work area. It will be stored in the drums and will be disposed of by a designated contractor.

LEAD COMPLIANCE PLAN

WORKER PROTECTION PROTOCOL

Preliminary Tasks

- Conduct fit testing for all workers who will be required to wear a respirator
- Conduct air monitoring to determine airborne lead levels
- Implement blood lead level monitoring

Daily Work Practices

On Site

- All employees are responsible for their PPE. Each employee should bring their Half-Mask or PAPR, gloves and safety glasses to the site daily.
- TYVEK suits and boot covers will be provided.
- Suits and hoods should be vacuumed with a HEPA vacuum before removal.
- Re-usable hoods and suits will be stored within the fenced work area during breaks and lunch.
- Restrooms are available on site. Workers should wash hands thoroughly before removing respirators. After removing respirators, workers should wash their hands and face.
- Half-mask respirators should be cleaned thoroughly after each use. Filters should be removed and both the mask and filters cleaned with alcohol wipes. Clean masks and filters should then be stored in a sealed plastic bag.
- PAPR hoods should be vacuumed daily with a HEPA vacuum before removal. Unit should then be stored in a plastic bag.

- Polyethylene sheeting will be laid on the ground under all work areas.
- All openings will be covered with polyethylene sheeting to prevent lead dust from entering the interior. Floor surfaces will also be covered with sheeting.
- All removed components will be wrapped in polyethylene sheeting for containment purposes.
- Removed sash and components will be transported to the Jenkins shop to be worked in the Lead Suite area.

Jenkins Lead Suite

- Follow attached Protocol.

GUIDELINES FOR USING THE LEAD-BASED PAINT ABATEMENT SUITE AT JENKINS

10.26.05

The lead abatement suite at the Jenkins Cannery has been designed and constructed so that the employees of the HPTC can function in the safest possible work environment while abating lead-based paint. Each project leader and employee is asked to ensure that this guideline is followed. If the procedures laid out below are inefficient or create an unsafe environment please contact either the safety manager or the Wood-crafting Section Chief. Please bear in mind that this guideline is not meant to supercede or take the place of applicable OSHA standards but rather to supplement those standards.

HVAC SYSTEM:

1. The HVAC/HEPA filtration system, fitted with a series of HEPA filters, in the lead abatement suite is designed to provide a cascading negative pressure environment so that air borne lead dust in the work area does not travel to other areas in or out of the suite. This system was designed by an engineering firm that does extensive design work for the laboratories and decontamination areas at Fort Dietrick. Based on the principle of cascading pressure, the system is constantly pulling air borne lead dust from the environment and maintaining the lowest possible lead levels in the air. The pressure within any given room is maintained by controlling the air supplied verses the air removed. In our particular case the highest pressure area (clean area) is the locker area and the pressure in each room reduces as you proceed though the restroom, wash-down area, and finally the work area (contaminated area.) The work area, which has the lowest pressure, is always trying to pull air from the surrounding spaces, i.e., the wash-down area, the locker room, and the warehouse. In so doing any air-borne lead contaminants are restricted to the work area.
2. In order to keep the HVAC/HEPA filtration system functioning as designed, three rules should be followed when using the work area:
 - A. Always turn on the overhead lights when entering and using the work area as this activates the HVAC/HEPA filtration system,
 - B. Doors between rooms are equipped with closers and they should be allowed to close after entering a space,
 - C. Do not open the windows as this could counteract the cascading effect of the HVAC/HEPA filtration system.
3. The Wood-crafting Section is responsible for maintaining all HEPA filters in the HVAC system.

PERSONNEL TRAVEL ROUTES THROUGH THE SUITE:

1. All personnel entering the suite should enter through the door to the locker area. Remove personal clothing and other items as desired and store those items in lockers. The personal locks that were issued to you by your section chief can be used to secure the lockers. If you choose you can temporarily apply your name to a locker. Put on your respirator or PAPR, tyvek suit and boots in the clean area before exiting to the work area. Apply duct tape as necessary to your suit. Tyvek boots and duct tape will be stocked in the clean area.
2. After donning the appropriate gear in the locker area, individuals can enter the work area. The first person entering the work area should turn on the lights which activates the HVAC/filtration system. The HVAC/filtration system should be operating any time that the work area is occupied and turned off when the area is unoccupied; this is the reason that the system is activated by the light switch. Once a work shift is completed and while the employee is still wearing protective gear, vacuum off hood and tyvek suit if they are to be worn again. After work is completed, personnel should exit through the wash-down area into the wash down area. Employees should not exit the work area into the warehouse or the locker area.
3. Upon entering the wash-down area, any re-useable hood or suit should be tagged with your name and hung on the hooks. Otherwise, dispose of hood, suits, and boots. Remove respirator and cap intake on filter cartridges. Wipe down respirator with alcohol wipes and store cleaned respirator in bag. Dispose of used alcohol wipes. No contaminated respirators or other equipment should leave the wash-down area unless they are in sealed plastic bags. After removing all tyvek gear and respirators, personnel should then proceed to the restroom. Employees should not exit from the wash-down area to the warehouse.
4. Once in the restroom, employees should wash or shower as appropriate to their project. Afterwards, employees should exit the restroom and enter the locker area.
5. After retrieving personal items from the locker area, employees should exit the suite through the same door which they initially entered the suite.

MATERIAL TRAVEL ROUTES THROUGH THE SUITE:

1. All contaminated material entering the work area should be brought in through the double doors that open to the warehouse. Once the material has been abated it should be HEPA- vacuumed to remove any lead dust.
2. After vacuuming in the work area, the material should be moved into the wash down area. Once in that area, the material can be washed with a solution of water and TSP and then rinsed clean with water. All material should then be allowed to dry.
3. Once the material is free of dust it should be removed from the wash down area directly

into the warehouse. Material should not be moved through the restroom and the locker area.

SUITE HYGIENE AND MAINTENANCE:

DAILY:

- Vacuum floor and table tops intermittently during the day and at the end of each day.
- Check HEPA vacuum bags.
- The section that is working in the abatement suite is responsible for providing all tyvek suits, tyvek boot covers, gloves, respirators, PAPRs, associated HEPA filters, and any tools used in the work area.

WEEKLY:

- Vacuum all surfaces in the work area and wash-down area.
- Mop all floors in entire suite.
- Empty waste containers.
- Empty HEPA vacuum.

If any supplies are low or if the trailer has not been appropriately cleaned prior to your use, please notify the Wood-Crafting Section Chief.

-END-

Miscellaneous

Paint Formulas

Primer

Benjamin Moore Fresh Start Alkyd Penetrating Primer in White

Exterior Paint

Benjamin Moore Moorglo Acrylic Paint in Brilliant White

Interior Paint

Benjamin Moore Premium Interior Latex Semi-gloss Aqua Glo

<u>333-1B</u>		
YW	0x	3.75
BK	0x	0.50
MA	0x	0.75
GY	0x	1.00

Copies of Previous Maintenance Records

RECEIVED

1985 FEB 26 AM 9:21

HARPERS FERRY NHP
HARPERS FERRY, WV

S7217(NCR-AC)

January 25, 1985

LETTER OF ACCEPTANCE

Shenandoah Studio of Glass, Inc.
John Marshall HWY Box 1468
Front Royal, VA. 22630

Gentlemen:

A final inspection of the work under Purchase Order PX-3000-4-2407 Replace Stained Glass and Related Work, Freewill Baptist Church, Harper's Ferry, WV., was conducted on January 10, 1985. Representing the contractor was Mr. Fred Dennison. Representing the National Park Service were Messrs. Tim Fox & Stewart Fox.

The inspection revealed that the work was completed substantially in accordance with the plans and specifications and is acceptable as of January 10, 1985 subject to the terms and conditions of the contract.

We appreciate your cooperation and highly satisfactory performance on this project.

Sincerely,


Ralph R. Ross
Chief, Division of Contracting
Contracting Officer

bcc:

AF-Vouchers

HAFE-Supt/AO

HAFE-Ch. of Maint.

HAFE-Franzen

AC-Guaranty File (Hall)

AC-Fox

AC-File

AC-Chrono

Stu/mh/Accept1/D10B

FOR QUOTATIONS (IS NOT AN ORDER)		1. DATE ISSUED 9/12/84		2. QUOTATION REQUEST NO. 84-111 (CMD)		3. QUOTATION REQUEST NO. 84-111 (CMD)		4. CLERK FOR PAY OFF LUMP SUM REG 2 AND/OR DWS REG 1		5. DELIVERY BY (Date) 60 calendar days after receipt of Notice to Proceed	
ISSUED BY Contracting Division - Rm. 140 National Capital Region 1100 Ohio Dr., SW, Washington, DC 20242		FOR INFORMATION CALL: (Name and telephone no.) (No collect calls) atherine M. Irwin (202) 485-9717 Tom McConnell		6. DELIVERY ☒ FOB DESTINATION ☐ OTHER (See Schedule)		7. DESTINATION (Consignee and address, including ZIP Code) Harpers Ferry National Historical Harpers Ferry, WV		8. NAME AND ADDRESS, INCLUDING ZIP CODE Shenandoah Studios of Stained Glass, Inc. John Marshall Hwy. PO Box 1468 Front Royal, VA 22630			

PLEASE FURNISH QUOTATIONS TO THE ISSUING OFFICE ON OR BE- FORE CLOSE OF BUSINESS (Date) September 25, 1984		11. BUSINESS CLASSIFICATION (Check appropriate boxes) ☒ SMALL ☐ OTHER THAN SMALL ☐ DISADVANTAGED ☐ WOMEN-OWNED	
---	--	--	--

IMPORTANT: This is a request for information, and quotations furnished are not offers. If you are unable to quote, please so indicate on this form and return this request does not commit the Government to pay any costs incurred in the preparation of the submission of this quotation or to contract for supplies or services. Supplies are of domestic origin unless otherwise indicated by quote. Any representations and/or certifications attached to this Request for Quotations must be completed by the quote.

12. SCHEDULE (Include applicable Federal, State and local taxes)					
ITEM NO. (a)	SUPPLIES/SERVICES (b)	QUANTITY (c)	UNIT (d)	UNIT PRICE (e)	AMOUNT (f)
	Furnish all labor, material & equipment to replace stained glass, & perform repairs as required to 19 windows in the Freewill Baptist Church, Harpers Ferry National Historical Park, as indicated on the attached sketch. Color, texture, & thickness of glass to match existing windows. Work shall include replacement of loose or missing caulking & glazing, surface preparation & painting of millwork.	LUMP SUM			\$5,310

DISCOUNT FOR PROMPT PAYMENT ☒	10 CALENDAR DAYS XX %	20 CALENDAR DAYS XX %	30 CALENDAR DAYS XX %	CALENDAR DAYS XX %
---	-----------------------	-----------------------	-----------------------	--------------------

NOTE: Reverse must also be completed by the quote.		15. SIGNATURE OF PERSON AUTHORIZED TO SIGN QUOTATION 		16. DATE OF QUOTATION 9/24/84	
NAME AND ADDRESS OF QUOTER (Street, city, county, State and ZIP Code) Shenandoah Studios of Stained Glass, Inc. John Marshall Hwy. PO Box 1468 Front Royal, VA 22630		17. NAME AND TITLE OF SIGNER (Type or Print) Robert J. Abdinoor Sales Consultant		18. TELEPHONE NO. (Include area code) 703 636 2937	

CONTRACT MODIFICATION NO. PX-3000-4-2407 MO #1
 SUB AT CODE Block 15
 3056-4514-301 (4DN) *arch*
 charged to PRS F7 85 HAFE 614
 Re: PRS F7 84 HAFE 672 B

National Park Service
 National Capital Region
 1100 Ohio Drive SW
 Washington, DC 20242

CONTRACTOR NAME AND ADDRESS CODE
 Shenandoah Studios of Stained Glass, Inc.
 John Marshall Highway
 Box 1468
 Front Royal, VA 22630

16. DISTRIBUTION
 AF-Vouchers OMD Wolfe/Filsoof
 Contractor
 AC-File
 AC-Chrono
 AC FOX
 HAFE Supt/AD
 HAFE Ch of maint
 HAFE/Franze

THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS

- (a) ☒ This Change Order is issued pursuant to small purchase authority.
 The Changes set forth in Block 8 are made to the above numbered contract/order.
- (b) ☐ The above numbered contract/order is modified to reflect the administrative changes (such as changes in paying office, appropriation data, etc.) set forth in Block 8.
- (c) ☐ This Supplemental Agreement is entered into pursuant to authority of _____
 It modifies the above numbered contract as set forth in Block 12.

DESCRIPTION OF MODIFICATION

Re: Replacing Stained Glass and Related Work, Freewill Baptist Church,
 Harpers Ferry NHP, Harpers Ferry, WV

Furnish all labor, materials, and equipment to provide the following items:

1. ITEM #3 Concord, New Hampshire
 Add: Replace one additional large piece of stained glass \$230
2. ITEM #5 Transom
 Add: Replace loose/missing caulking/glazing on exterior of window and frame
 Add: Remove loose paint on outer millwork and repaint to bottom of window only 0
3. ITEM #7 Tower Windows
 Add: Replace one additional piece of stained glass 80
4. ITEM #8 Franklin Window
 Add: Replace two additional large pieces of stained glass
 Add: Replace one additional medium piece of stained glass 520
5. ITEM #10 Veney Window
 Add: Replace two additional large pieces of stained glass 460

NO CHANGE IN CONTRACT TIME

TOTAL MO#1	1290
Original Contract Amount	5310
Revised Contract Amount	6600

By executing herein, all terms and conditions of the documents referenced in Block 1, as herebefore changed, remain unchanged and in full force and effect.

☐ CONTRACTOR/OFFICE IS NOT REQUIRED TO SIGN THIS DOCUMENT
☐ CONTRACTOR/OFFICE IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN 2 COPIES TO ISSUING OFFICE

NAME OF CONTRACTOR/OFFICE
 Signature of person authorized to sign

12. DATE SIGNED

13. UNITED STATES OF AMERICA
 Signature of Contracting Officer

14. NAME OF CONTRACTING OFFICE (Type or print)
 (Sgt.) Ralph R. Eddy

15. DATE SIGNED
 12/10/81

Shenandoah Studios of Stained Glass, Inc.

John Marshall Highway
P.O. Box 1468
Front Royal, VA 22630

FOLLOWING, PLEASE FIND A COMPLETE RECOMMENDATION PREPARED SPECIFICALLY FOR:

Curtis Freewill Baptist Church, Harpers Ferry National Historic Park, Harpers Ferry,
WV 25425

PROPOSAL NUMBER ONE - MY RECOMMENDATION FOR THE NEEDED REPAIRS OF YOUR STAINED
GLASS WINDOWS MENTIONED BELOW:

Main Sanctuary, Left Front, Counterclockwise

ITEM #1 - Harpers Ferry, West Virginia Window

Replace one piece of stained glass
Replace loose/missing caulking/glazing on exterior of window & frame
Remove loose paint on outer millwork and repaint

ITEM #2 - Amesbury, Massachusetts Window

Replace loose/missing caulking/glazing on exterior of window & frame
Remove loose paint on outer millwork and repaint

ITEM #3 - Concord, New Hampshire

Replace one piece of stained glass
Replace loose/missing caulking/glazing on exterior of window & frame
Remove loose paint on outer millwork and repaint

ITEM #4 - Lynn, Massachusetts Window

Replace two pieces of stained glass
Replace loose/missing caulking/glazing on exterior of window & frame
Remove loose paint on outer millwork and repaint

Proceed to Entrance

ITEM #5 - Transom

No Repair Necessary

ITEM #6 - Side Window

Replace two pieces of stained glass
Replace loose/missing caulking/glazing on exterior of window & frame
Remove loose paint on outer millwork and repaint

Proceed to tower

Thirty years experience caring for stained glass windows

Shenandoah Studios of Stained Glass, Inc.

Proposal #1 for Curtis Freewill Baptist Church, Harpers Ferry National Historic Park, Harpers Ferry, WV 25425

Page 2

ITEM #7 - Tower Windows

Replace one piece of stained glass
Replace loose/missing caulking/glazing on exterior of window & frame
Remove loose paint on outer millwork and repaint

Proceed back into Sanctuary

ITEM #8 - Franklin Window

Replace one piece of stained glass
Replace loose/missing caulking/glazing on exterior of window & frame
Remove loose paint on outer millwork and repaint

ITEM #9 - Morrell Window

Replace two pieces of etched stained glass
Replace one piece of stained glass
Replace loose/missing caulking/glazing on exterior of window & frame
Remove loose paint on outer millwork and repaint

ITEM #10 - Veney Window

Replace loose/missing caulking/glazing on exterior of window & frame
Remove loose paint on outer millwork and repaint

ITEM #11 - Bangor, Maine Window

Replace two pieces of stained glass
Replace loose/missing caulking/glazing on exterior of window & frame
Remove loose paint on outer millwork and repaint

ITEM #12 - Portland, Maine Window

Replace loose/missing caulking/glazing on exterior of window & frame
Remove loose paint on outer millwork and repaint

ITEM #13 - Providence, Rhode Island Window

Replace loose/missing caulking/glazing on exterior of window & frame
Remove loose paint on outer millwork and repaint

ITEM #14 - Lowell, Massachusetts Window

Replace one piece of stained glass
Replace loose/missing caulking/glazing on exterior of window & frame
Remove loose paint on outer millwork and repaint

Shenandoah Studios of Stained Glass, Inc.

Proposal #1 for Curtis Freewill Baptist Church, Harpers Ferry National Historic Park, Harpers Ferry, WV 25425

Page 3

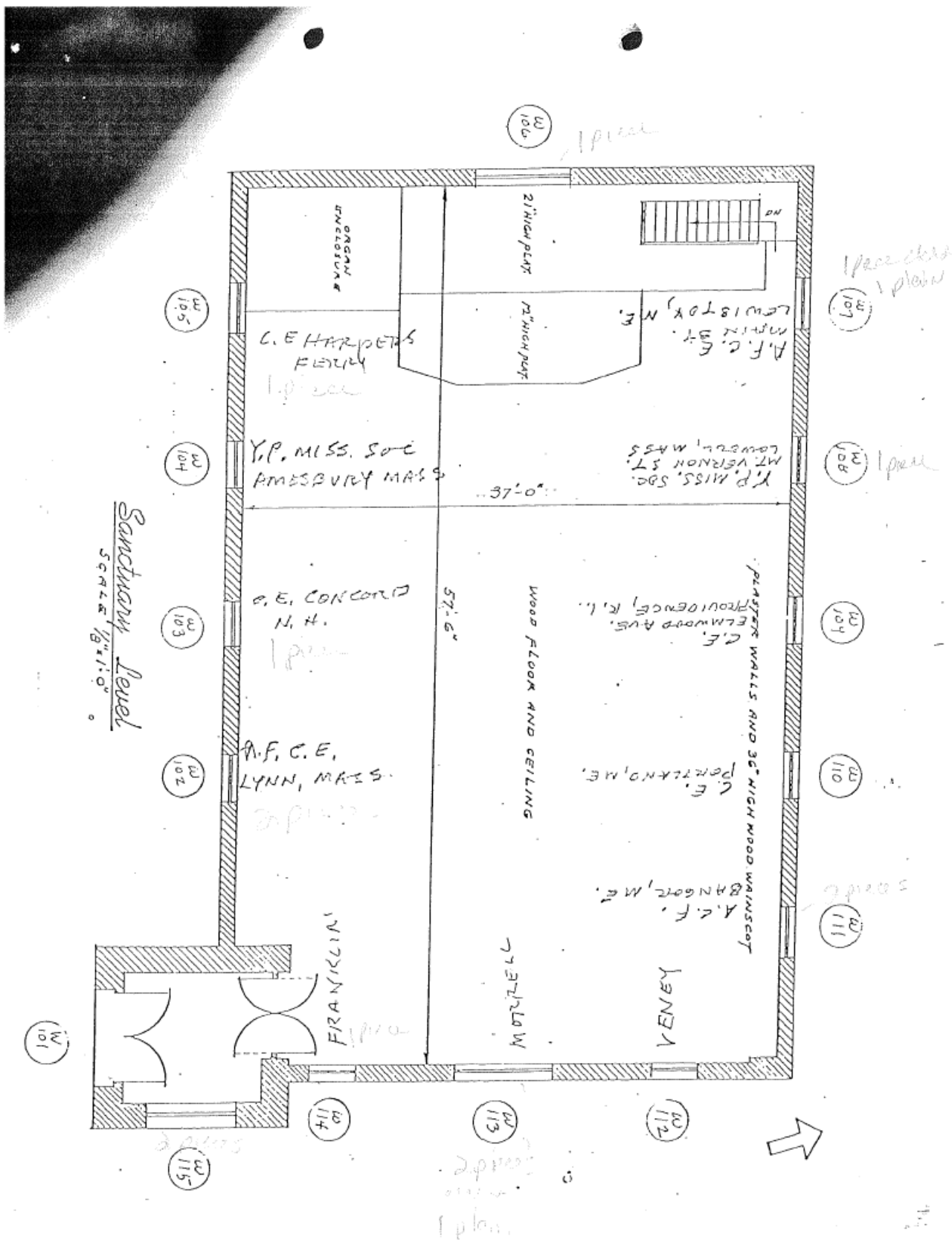
ITEM #15 - Lewiston, Maine Window

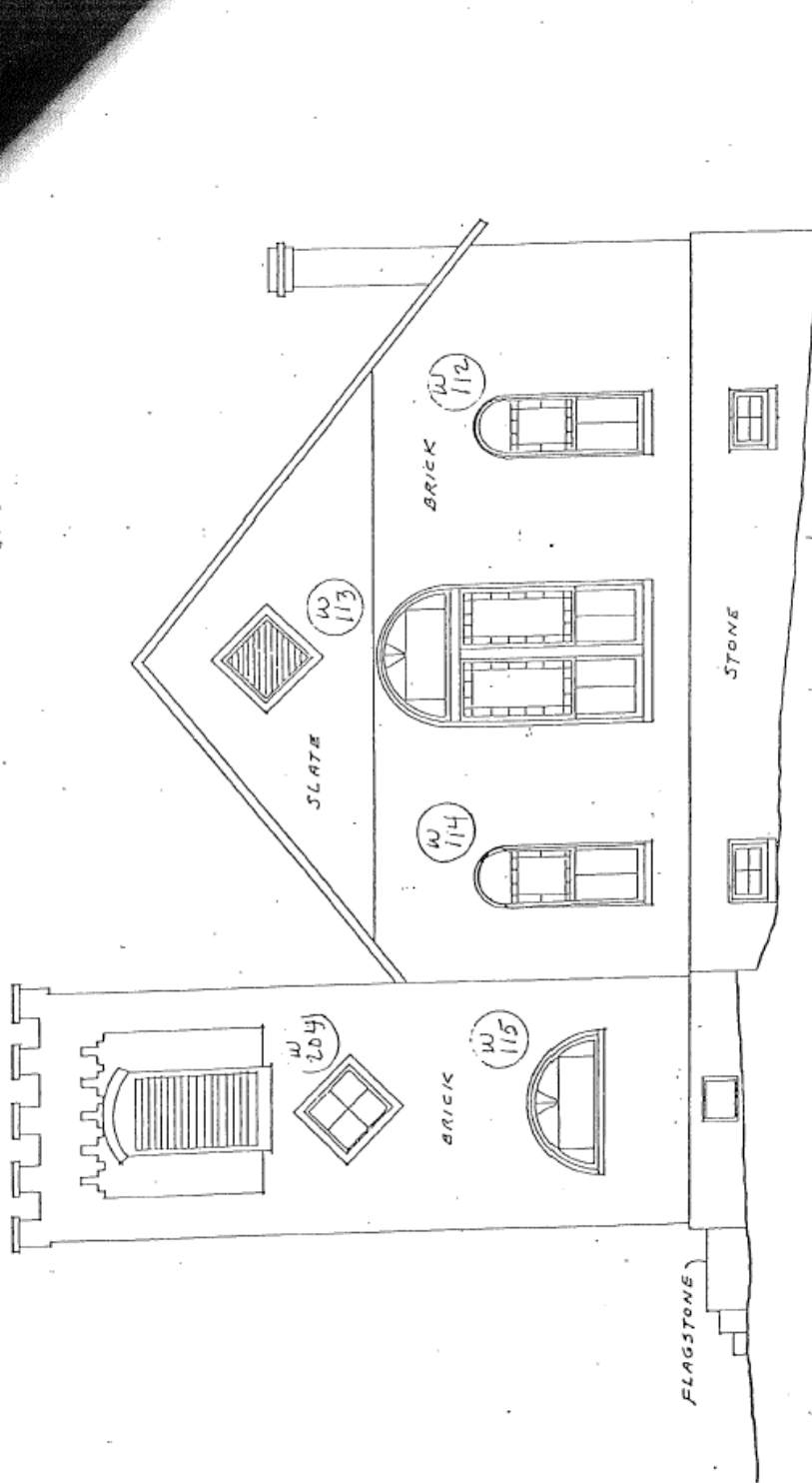
Replace one piece of etched stained glass
Replace one piece of stained glass
Replace loose/missing caulking/glazing on exterior of window & frame
Remove loose paint on outer millwork and repaint

Proceed to Altar Area

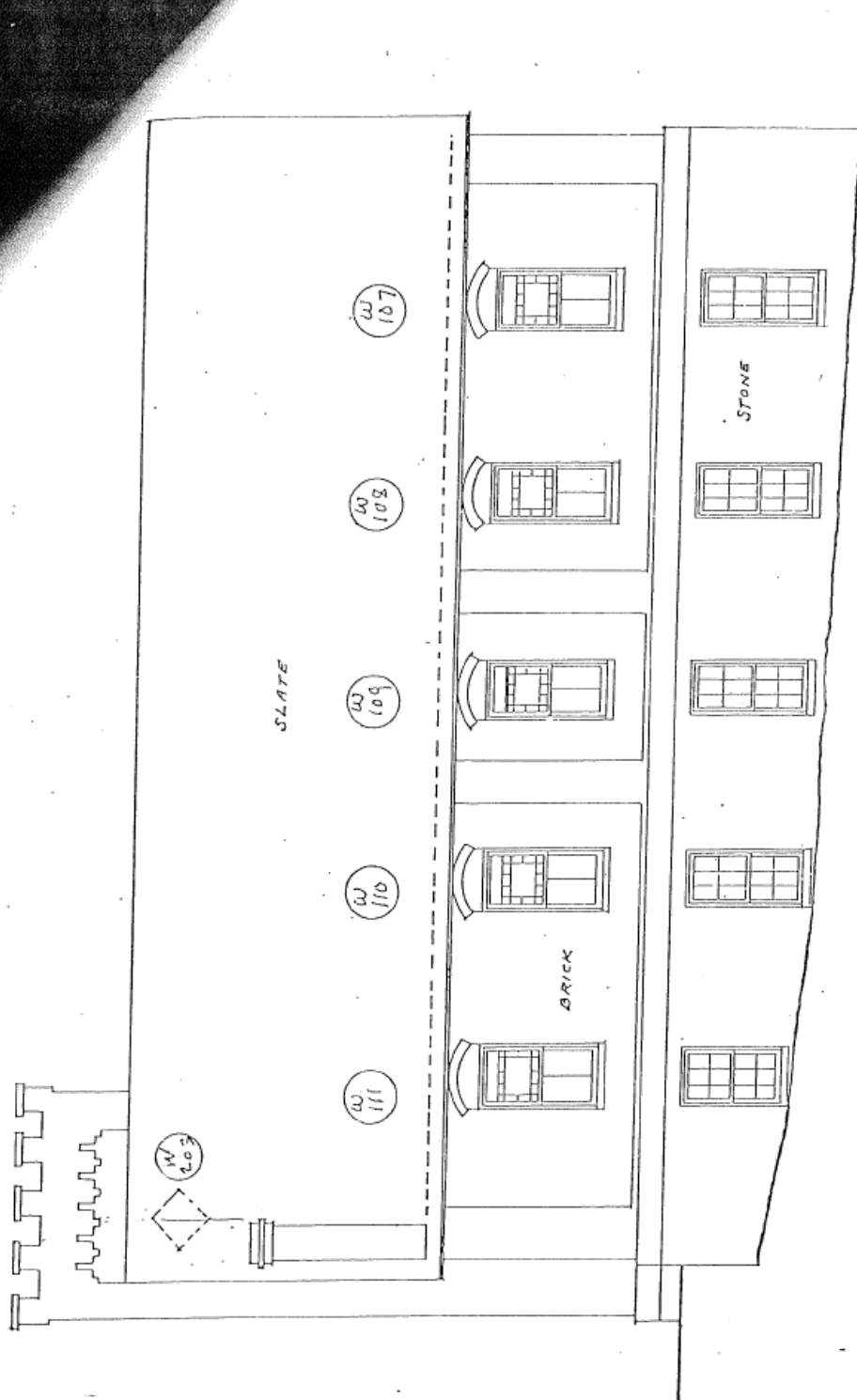
ITEM #16 - Altar Window

Replace one piece of stained glass
Replace loose/missing caulking/glazing on exterior of window & frame
Remove loose paint on outer millwork and repaint

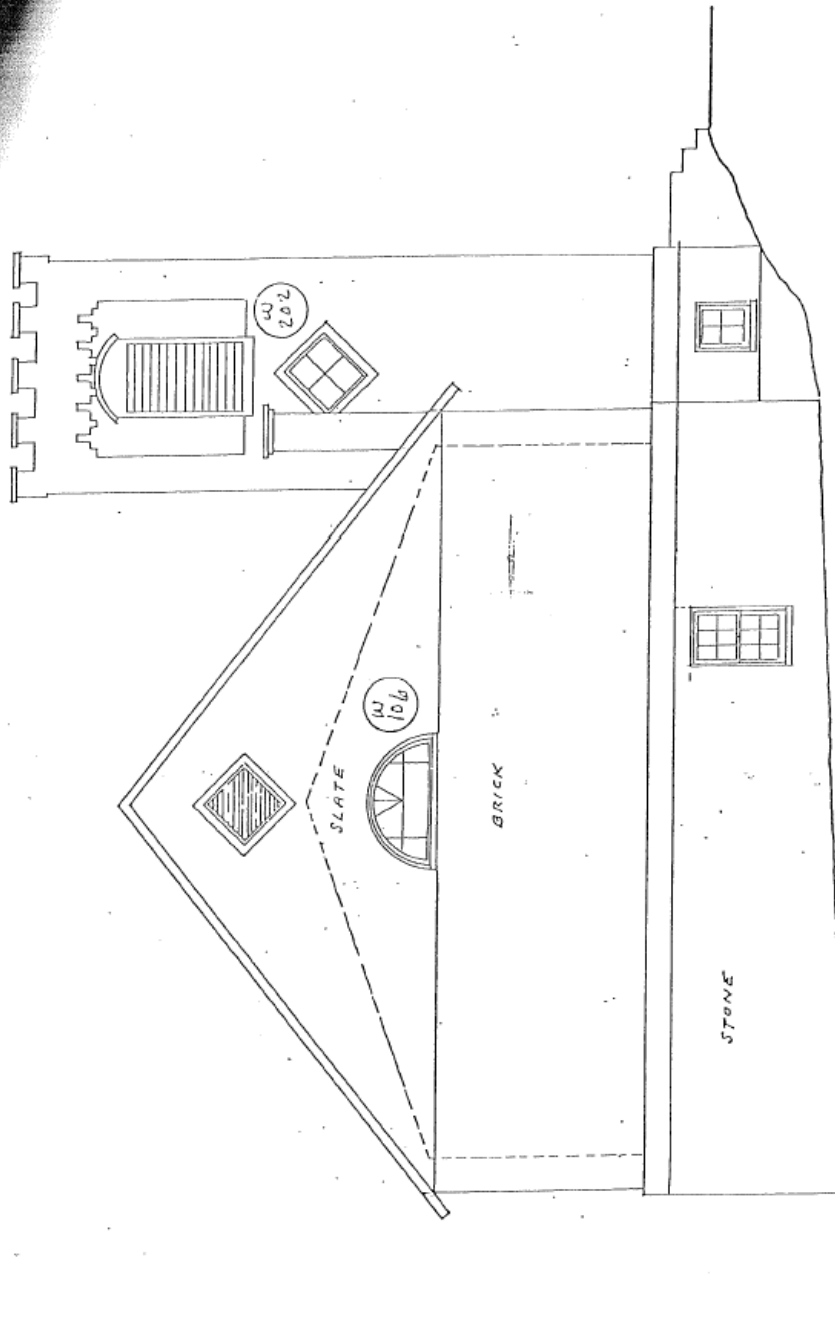




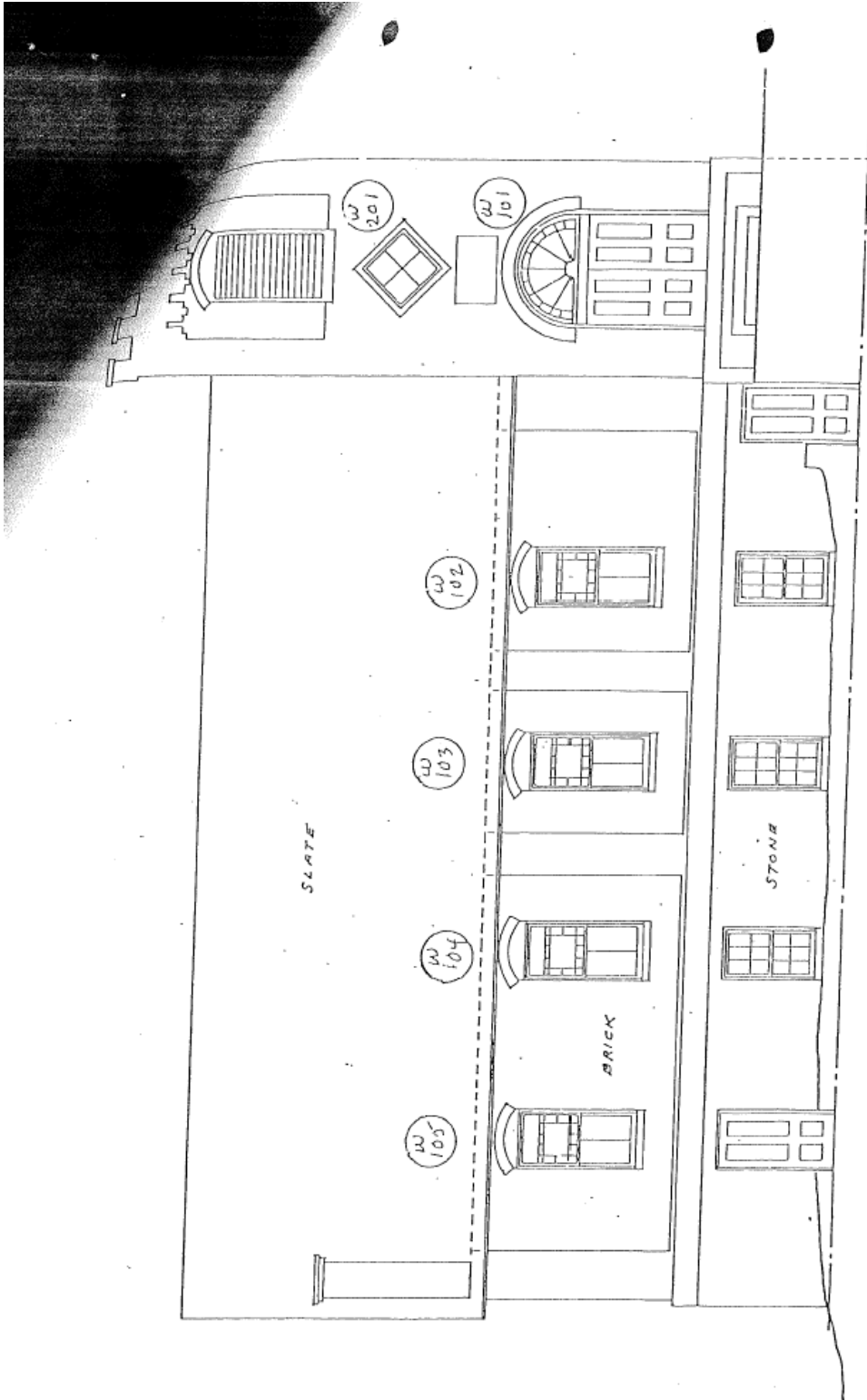
Jackson Street Elevation
 SCALE $\frac{1}{8}" = 1'-0"$



Washington Street Elevation
 SCALE 1/8" = 1'-0"



Rear Elevation
SCALE 1/8" = 1'-0"



Fillmore Street Elevation
SCALE $\frac{1}{8}" = 1'-0"$

**Curtis Freewill Baptist Church
Preservation of Windows and Doors
Harpers Ferry National Historical Park
Photo Log**

Photo No.	Location	Photo Notes/Comments
1	East Elevation	Existing Conditions
2	East Elevation	Existing Conditions
3	South Elevation	Existing Conditions
4	South Elevation	Existing Conditions
5	South Elevation	Existing Condition – D102
6	South Elevation	Existing Condition – D102
7	South Elevation	Existing Condition – D102
8	South Elevation	Existing Condition – D101
9	South Elevation	Existing Condition – D101
10	West Elevation	Existing Conditions
11	West Elevation	Existing Conditions
12	North Elevation	Existing Conditions
13	North Elevation	Existing Condition – W212
14	West Elevation	Existing Condition – W213
15	North Elevation	Interior View
16	South Elevation	Interior View
17	North Elevation	Scraping window jambs
18	North Elevation	Cleaning paint chips with HEPA vacuum
19	North Elevation	Plexiglass installed in W209
20	South Elevation	Plexiglass installed in W202
21	East elevation	Existing condition of sill – W206
22	East elevation	Existing condition of sill – W206

23	North Elevation	Scraping exterior jamb – W210
24	North Elevation	Scraping exterior jamb – W210
25	North Elevation	Scraping exterior jamb – W210
26	North Elevation	Scraping exterior jamb – W210
27	East Elevation	Scraping exterior jamb – W206
28	East Elevation	Scraping exterior jamb – W206
29	East Elevation	Scraping exterior jamb – W206
30	North Elevation	Scraping exterior jambs
31	East Elevation	Scraping exterior jambs
32	Jenkins Lead Suite	Scraping upper sash
33	Jenkins Lead Suite	Sanding upper sash
34	Jenkins Shop	Carpentry repairs to W213
35	Jenkins Shop	Carpentry repairs to sash
36	Jenkins Shop	Carpentry repairs to sash
37	Jenkins Shop	Carpentry repairs to sash
38	Jenkins Shop	Carpentry repairs to sash
39	Jenkins Shop	Carpentry repairs to sash
40	Jenkins Shop	Carpentry repairs to sash
41	Jenkins Shop	Carpentry repairs to sash
42	Jenkins Shop	Carpentry repairs to sash
43	Jenkins Shop	Carpentry repairs to lunette
44	Jenkins Shop	Back priming joints
45	Jenkins Shop	Carpentry repairs to sash
46	Jenkins Shop	Carpentry repairs to sash
47	Jenkins Shop	Carpentry repairs to sash
48	Jenkins Shop	Carpentry repairs to sash
49	Jenkins Shop	Priming sash

50	Jenkins Shop	Priming sash
51	Jenkins Shop	Glazing sash
52	Jenkins Shop	Glazing sash
53	Jenkins Shop	Glazing sash
54	Jenkins Shop	Glazing sash
55	Jenkins Shop	Glazing sash
56	Jenkins Shop	Glazing sash
57	Jenkins Shop	Repaired bullseye pane
58	Jenkins Shop	Lunette 206
59	Jenkins Shop	Glazing sash
60	Jenkins Shop	Glazing sash
61	Jenkins shop	New lead comes
62	Jenkins lead suite	Scraping exterior stop & trim
63	South elevation	Scraping exterior jambs
64	South elevation	Scraping exterior jambs
65	South elevation	Scraping exterior jambs
66	North elevation	Scraping exterior jambs
67	East elevation	Repairing W205 sill
68	East elevation	Repairing W206 sill
69	North elevation	Existing condition – sill W109
70	North elevation	Existing condition – sill W109
71	North elevation	Repairing W109 sill
72	North elevation	Repairing W109 sill
73	North elevation	Repairing W109 sill
74	North elevation	Repairing W109 sill
75	East elevation	New sill – W206
76	East elevation	Installing new sill – W207



United States Department of the Interior

NATIONAL PARK SERVICE

Historic Preservation Training Center

4801A Urbana Pike

Frederick, MD 21704



77	East elevation	New sill W207
78	North elevation	Repairing W109 sill
79	Jenkins Shop	Paint window sash
80	South elevation	Installing window sash
81	East Elevation	Installing window sash
82	East Elevation	Installing window sash
83	East Elevation	Installing window sash
84	North Elevation	Installing window sash
85	South elevation	Interior view of installed windows
86	East elevation	Installing W206
87	East elevation	Installing W206 lunette
88	East elevation	Installing W205
89	North elevation	Interior view of installed windows
90	East elevation	Repaired W206
91	East elevation	Installing W206
92	East elevation	Installing W206
93	West elevation	Installing W213