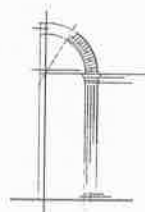


COMPLETION REPORT

CHRISTIANSTED NATIONAL HISTORIC SITE

Steeple Building Fence and
Fort Christianvaern Wingwall
Repairs, 1992

PREPARED BY:



U.S. NATIONAL PARK SERVICE
SOUTHEAST REGIONAL OFFICE
HISTORIC ARCHITECTURE DIVISION
75 SPRING STREET, SW
ATLANTA, GEORGIA 30303

CONTENTS OF VOLUME I PROJECT OVERVIEW

INTRODUCTION

SCOPE OF WORK

PROJECT PARTICIPANTS

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INTRODUCTION

INTRO

DESCRIPTION OF WORK PERFORMED

During the summer of 1992, the Southeast Region's Historic Architecture Division Field Services Unit completed repairs to five masonry columns and three brick retaining walls at the Steeple Building compound, Christiansted National Historic Site. In addition to the required masonry work, it was also necessary to rebuild two wood balustrade fences. The work was required because of damage created by Hurricane Hugo, as well as damage inflicted by a large runaway truck earlier in the year.

All work was to appear as closely as possible to the appearance of the intact columns and fences. All damaged fabric was assembled and usable column sections and brick units were salvaged and cleaned for reuse.

Two wooden fence balustrades were constructed based on the design of the original units. All work was completed as proposed and the project was accepted by the Park.

In addition to the above work, the Field Services Unit also reconstructed the north wingwall at Fort Christianvaern. The wall had been partially destroyed during Hurricane Hugo.

SCOPE OF WORK

WORK

SCOPE OF WORK

STEEPLE BUILDING FENCE

1. Dismantle historic brick at damaged areas and clean salvageable brick.
2. Excavate for new concrete footers where needed.
3. Pour new concrete footers.
4. Remove in-tact two columns at East wall, prepare base and reset.
5. Remove in-tact one column at North wall, prepare base and then reset. (Note: columns may be too deteriorated to save intact, in which case they would have to be disassembled and rebuilt, and costs adjusted accordingly.)
6. Completely rebuild one column at East Wall.
7. Completely rebuild one column at North Wall.
8. Repair in place one column at East Wall.
9. Relay and repoint brick at damaged areas along walls.
10. Repair and install wood fencing.

FORT CHRISTIANVAERN WINGWALL

1. Salvage historic stone for reuse.
2. Repair structural fracture to existing footer.
3. Reconstruct wall using concrete block.
4. Stucco new work to match existing.

PROJECT PARTICIPANTS

PERSONNEL

PROJECT PARTICIPANTS

Historic Architecture Division

Rene Cote, Historical Architect
Mike Doelger, Chief of Field Services
Barry Caldwell, Exhibit Specialist
Ross Hunt, Exhibit Specialist
Stephen Siggins, Mason
Dean Ferguson, Mason
Dean Garrison, Masonry Worker
Louis Scott, Masonry Worker
Aldon Johnson, Maintenance Worker
Marshall Whitley, Exhibit Specialist
Mary Sabel, Exhibit Specialist
Chris Whitley, Carpentry Worker
Bill Cohen, Carpenter
Ron Black, Maintenance Worker

LOGISTICS AND SUPPORT

SUPPORT

PROJECT SUPPORT

Virgin Islands National Park

Marc Koenings, Superintendent
Amy Robertson, Administrative Officer
Delita Roberts, Procurement Officer
Joel Tutein, Chief Ranger, CHRI

MATERIALS

MATERIALS

All building materials were purchased locally, including a supply of reproduction Danish colonial brick cast in the Roman style (8 by 4 by 1 $\frac{3}{4}$ inches). These brick were produced by Margaret Taylor, PO Box 1432, Christiansted, St. Croix, 00821. Phone (809) 773-7836.

Other important vendors include Superior Block Company for sand, lime and cement, Charlies Concrete Services and Caribe Home Center for various hardware and supplies.

The paint used on all woodwork was Glidden Y-1951 Primer and Castile Red M40-75 as produced by MOBILE PAINT MFG. CO. as a finish coat and available locally. All masonry work was painted by the Park Maintenance staff using a whitewash formula provided by OHA/SER.

FORMULAS

FORMULAS

FORMULAS

FORMULA FOR 5 GALLONS OF LIME WHITEWASH (Steeple Bulding Fence)

2 1/2 quarts Acryl 60
1 pint medium white Matte Acrylic Liquid--TEX Brand or equivalent
1 quart denatured alcohol
3 gallons slaked lime

FORMULA FOR 5 GALLONS OF YELLOW LIMEWASH (Wingwall Project)

2 1/2 quarts Acryl 60
1 pint medium white Matte Acrylic Liquid-Tex Brand or equivalent
1 quart denatured alcohol
3 gallons slaked lime
1 pint yellow oxide

MIXING INSTRUCTIONS:

Add Lime to enough water (2-3 gallons) to form a thick soup.
"Slake" lime for 18-24 hours before adding other ingredients. Mix all items other than lime together first, then add liquid mixture to lime. Add more water as necessary to achieve a consistency of thick paint. Use within two hours. 5 gallons will cover approximately 800 to 1000 square feet.

MORTAR FORMULAS

The formulas listed below were used on both the Steeple Building fence and the Wingwall project.

Setting mortar: 4 parts screened course sand
1 part hydrated masons lime
1/4 part white portland cement

Plaster mortar: 3 parts screened course sand
1 part hydrated masons lime
1/4 part white portland cement
Acryl 60 acrylic bonding agent as per manufacturers instructions

Note: Acryl 60 is made by THORO Systems Products, 7800 N.W. 38th Street, Miami, Florida 33166, (305)592-2081 or 1-800-327-1570

HISTORIC STRUCTURES PRESERVATION GUIDES

HSPG

ANNUAL MAINTENANCE RECOMMENDATIONS

Brick Columns/Walls:

All masonry should receive a fresh coat of whitewash every two years. Wash with clean water and lightly scrub with a soft nylon or Tampico brush to remove accumulated deposits of dirt, carbon, and bird droppings and loose and scaly whitewash. Examine all masonry for evidence of loose or missing plaster, mortar or brick units. Repair as needed matching existing fabric as closely as possible (See material and formula section for details).

After all brickwork is cleaned and repaired, inspect whitewash for signs of wear and deterioration. Apply whitewash as needed. In addition to these regularly scheduled maintenance procedures, it is recommended that proper drainage is maintained adjacent to columns and walls. This may be a special problem at the northeast corner of the Steeple Building property.

Steps should be taken to insure this area is properly graded to a level equal to the height of the brick retaining walls. This will allow most of the runoff from heavy rains to cascade over the tops of the walls and down the face into the drainage ditch running parallel to the wall.

Periodically check the weep holes in the face of the wall for any obstructions to drainage and clear as necessary.

Wood Balustrade Fence:

Scrub lightly with clean water and mild soap using a soft brush. Remove all accumulated deposits of dirt, grime, and faded paint. Inspect wood fabric for evidence of peeling or thinning paint. Look for exposed primer coat or wood grain. Inspect all wood joints for evidence of separation or cracking and fill with wood putty or caulk as appropriate to prevent water penetration. Paint as needed.

Wingwall

The wingwall should receive a fresh coat of yellow limewash every two years. Prior to the application of yellow limewash, inspect the wall for evidence of deteriorated plaster or structural fractures. Make repairs to the plaster using the material formulas listed in this report. Allow all masonry repairs to cure for thirty days before limewashing.

**CONTENTS OF VOLUME II
PROJECT DOCUMENTATION**

TECHNICAL ASSISTANCE

JOURNAL AND CORRESPONDENCE

PHOTOGRAPHS

TECHNICAL ASSISTANCE

RO-8

TASK DIRECTIVE

XXX

T/A

RO-8

SOUTHEAST REGION
PROJECT ANALYSIS/ADVANCE ACQUISITION PLAN

Park Area Virgin Islands National Park
Christiansted NHS
Project Title Rehab of historic structures

Priority 2
Pkg. #
Funding Source 38
Account #
Fiscal Year 1992
Date 9/20/91

STATEMENT OF WORK PROPOSED AND JUSTIFICATION

A wide variety of maintenance/rehab work is required on several historic structures/locations throughout Christiansted National Historic Site. It is important that the Site is prepared for the arrival of dignitaries to promote activities associated with the Columbus Quincentennial Celebration. Work to be performed includes: extensive renovation of woodwork (windows, doors and doorjams) throughout Fort Christiansvaerns; repairs at the Scale House; latrine roofs within the Stable Yard; repair and replace fencing around Steeple Building; as well as continuous cyclic painting of the exterior and interior of the Fort.

Proposed Start Date:
10/01/91

Target Completion Date:
06/06/92

Plans/Specs Date:

Location:
Christiansted NHS
St. Croix, U.S.V.I.

Cost Center: 023

Personal Services (Position)

Masons
Carpenters

Total: \$40,000

Materials and/or Contract Costs

Total: \$100,000

Total Project Costs \$140,000

Requested By

William C. Cissel

William Cissel
Chief of I. & R.M.

Concurred by

Amy C. Robertson

Amy Robertson
Administrative Officer

Approved By

Marc Koenings

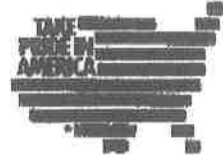
Marc Koenings
Superintendent

Signature _____ Date _____
(Procurement Official)



IN REPLY REFER TO:

United States Department of the Interior

NATIONAL PARK SERVICE
SOUTHEAST REGIONAL OFFICE75 Spring Street, S.W.
Atlanta, Georgia 30303

H30 (SER-OHA)

Memorandum

To: Superintendent, Virgin Islands National Park

Through: *FV* Deputy Associate Regional Director, Cultural Resources, *CM*
Southeast Region

From: Acting Chief, Historic Architecture Division, Southeast Region

Subject: Task Directive for masonry repairs to structures damaged by Hurricane Hugo

We are pleased to make the following proposal for masonry repairs to brick fence posts and walls at the Steeple Building at St. Croix, Virgin Islands. Included in this proposal also is the estimate for the additional carpentry work required on the section of fence recently damaged by a truck. The intent of the work is to do preservation maintenance on damaged structures by repairing historic fabric or replacing in kind.

To better organize and track the work of this project, activities have been divided into the following elements:

1. Dismantle historic brick at damaged areas and clean salvageable brick.
2. Excavate for new concrete footers where needed.
3. Pour new concrete footers.
4. Completely rebuild one column at East Wall.
5. Repair in place one column at East Wall.
6. Remove two columns which are partially intact at East wall, prepare bases and reset.
7. Remove one column which is partially intact at North wall, prepare base and reset.
8. Completely rebuild one column at North Wall.
9. Relay and repoint brick at damaged areas along walls.
10. Repair and install wood fencing.

(Note on items #6 and #7: Columns may be too deteriorated to save intact, in which case they would have to be disassembled and rebuilt and costs adjusted accordingly.)

The above estimate is based upon being able to locate matching brick on St. Croix.



2

All material purchases, as well as lodging and rental car expenses, shall be processed directly through the park. We will work closely with Delita in initiating the DI-1 forms and we will track all project expenditures.

The total estimated costs of this project is \$43,000. Major cost categories are outlined below:

Labor.....	\$18,035
Travel and Per Diem.....	14,857
Lodging.....	3,400
Vehicles.....	2,850
Materials.....	3,858
Total.....	\$43,000

We expect to begin this project on or about May 26. Proposed completion date is July 2.

Mike Doelger, Head of OHA Field Services, will coordinate this project with you. Every effort will be made to ensure that the specified work is done to preservation standards within proposed budget and project schedule. Unforeseen conditions which may result in changes of scope, cost, or project duration will be brought to your attention as soon as we are aware of them. Any changes you may wish to make should be brought to the attention of Mr. Doelger. All substantial changes are to be agreed to in writing by you, and the OHA Division Chief.

Please complete and return with this task directive, the enclosed 10-239 approving a transfer of the \$43,000 to the Historic Architecture Division. We look forward to working with you on this project.



I concur with this task directive.



Superintendent

6/5/92
Date

Enclosure

⊗

Form 10-
Rev 11/88United States Department of the Interior
National Park ServiceREF # ORG 5057 FY 92Date 5/7/92Park: VIIS: ST. CROIX

PROGRAM CHANGE PROPOSAL

PART I GENERAL INFORMATION

PROGRAM <u>Repair/Rehab</u>	TYPE OF	<u> </u> Add Project(s)	<u>X</u> Transfer Funds
	ACTION	<u> </u> Drop Project(s)	<u> </u> Adjust Funds

PART II (Continue on reverse if needed)

PARK, Package: SW Priority, Project Title

Project ID Number

FY: PT - PARK - UNIQUE #Account Number
XXXX - XXXX - XXX

FUNDING	Current Amount	± Change	Proposed Amount

1)	<u>Repairs to Steeple Building Fence</u>	<u>5380-1521-291</u>	<u>85,700</u>	<u>-43,000</u>	<u>42,700</u>
2)		<u>5057- -291</u>	<u>0</u>	<u>+43,000</u>	<u>43,000</u>
3)					
4)					
5)					
6)					

PART III JUSTIFICATION (Continue on reverse if needed)

(NOTE: Justify need for adding new projects or increasing funding for approved projects. Describe impact on current and future programs of dropped, deferred or decreased projects)

Funds are to be transferred to SER-OHA for repair work to be completed by the regional Preservation Crew at St. Croix.

REQUESTED BY: Wm C. Robertson

For Superintendent VIIS

PART IV APPROVAL

Final
Director:
DSC or HFC
Service Center Manager:
DIRECTOR:

WASO BUDGET
OFFICER:
WASO PROGRAM
COORDINATOR:





United States Department of the Interior

NATIONAL PARK SERVICE
SOUTHEAST REGIONAL OFFICE

75 Spring Street, S.W.
Atlanta, Georgia 30303



IN REPLY REFER TO:

JUN 10 1992

H30 (SER-OHA)

Memorandum

To: Superintendent, Virgin Islands National Park

Through: Deputy Associate Regional Director, Cultural Resources,
Southeast Region

From: Acting Chief, Historic Architecture Division, Southeast
Region

Subject: Task Directive for masonry repairs to structures damaged
by Hurricane Hugo at St. Croix

We are pleased to make the following proposal for repairs to two wing walls at Fort Christianvaern, St. Croix, Virgin Islands. The intent of the work is to do preservation maintenance on damaged structures by repairing historic fabric or replacing in kind.

To better organize and track the work of this project, activities have been divided into the following elements:

1. Salvage historic stone where possible.
2. Remove old footers.
3. Build coffer dams.
4. Excavate for new concrete footers.
5. Pour new concrete footers.
6. Rebuild wing walls.
7. Stucco walls.

Park staff will be responsible for breaking up and removing wing wall debris from the site. The above estimate is based upon being able to locate matching stone on St. Croix.

All material purchases, as well as lodging and rental car expenses, shall be processed directly through the park. We will work closely with Delita Roberts in initiating the DI-1 forms and we will track all project expenditures.

The total estimated costs of this project is \$41,500. Major cost categories are outlined below:

Labor.....	\$16,871
Travel and Per Diem.....	14,629
Lodging.....	3,400
Vehicles.....	2,000
Materials.....	4,600
Total.....	\$41,500

We expect to begin this project on or about August 3. Proposed completion date is August 28.

Mike Doelger, Head of OHA Field Services, will coordinate this project with you. Every effort will be made to ensure that the specified work is done to preservation standards within proposed budget and project schedule. Unforeseen conditions which may result in changes of scope, cost, or project duration will be brought to your attention as soon as we are aware of them. Any changes you may wish to make should be brought to the attention of Mr. Doelger. All substantial changes are to be agreed to in writing by you, and the OHA Division Chief.



I concur with this task directive.

Superintendent

Date

cc:
SER-ODC, Hartwig
CHRI-Tutein

AREA: VIIS: ST. CROIX

PROGRAM CHANGE PROPOSAL

PART I GENERAL INFORMATION

PROGRAM Repair/Rehab TYPE OF ACTION: Add Project(s) X Transfer Funds
 Drop Project(s) Adjust Funds

PART II (Continue on reverse if needed)

PARK, Package, S/W Priority, Project Title Project ID Number FY - PT - PARK - UNIQUE #	Account Number XXXX - XXXX - XXX	FUNDING		
		Current Amount	= Change	Proposed Amount
(1) Wing wall repairs at Fort	5380- -		-41,500	
(2) Christianvaern	5057- -	0	+41,500	41,500
(3)				
(4)				
(5)				
(6)				

PART III JUSTIFICATION (Continue on reverse if needed)

(NOTE: Justify need for adding new projects or increasing funding for approved projects. Describe impact on current and future programs of dropped, deferred or decreased projects)

Funds are to be transferred to SER-OHA for repair work to be completed by the regional Preservation Crew at St. Croix

REQUESTED BY:

Superintendent, VIIS

PART IV APPROVAL

Regional
Director:
DSC or HFC
Service Center Manager
DIRECTOR:

WASO BUDGET
OFFICER:
WASO PROGRAM
COORDINATOR:

H4217 (SER-OCR)

DEC 8 1989

Memorandum

To: Superintendent, Christiansted National Historic Site

From: Deputy Associate Regional Director, Cultural Resources,
Southeast Region

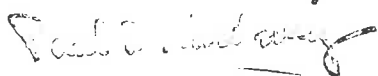
Subject: Section 106 Clearance for six proposals to repair damage
caused by Hurricane Hugo

We are pleased to inform you that Section 106 compliance procedures have been completed under the Programmatic Memorandum of Agreement (PMOA) for the following projects:

CHRI-90-04	Fort Christiansvaern LCS#0018, repair latrine roof.
CHRI-90-02	Fort Christiansvaern, repair doors and windows.
CHRI-90-09	Danish West India & Guinea Company Warehouse, reconstruct damaged fence.
CHRI-90-08	Steeple Building, repair and reconstruct damaged fence.
CHRI-90-07	Steeple Building, restore and reinstall damaged weathervane.
CHRI-90-03	Fort Christiansvaern, repair or reconstruct wing walls.

Copies of the completed XXX Forms are enclosed.

You are free to proceed with the projects if funds are available and all other requirements have been met.



Enclosures

bcc:

(Chief, OHA w/enc.
Chief, OSC
SER-O
SER-PC

XXX FORM

ASSESSMENT OF ACTIONS HAVING AN EFFECT ON CULTURAL RESOURCES
Southeast Regional Office
(Attach continuation sheets as necessary)

A. Originating Office

1. Park: Christiansted NHS.

2. Description of proposed action:

- ☒ [X] Implementing action included in plan under PMOA
☐ [] Other PMOA action _____
☐ [] Section 106 action not under PMOA

3. Cultural resources affected by proposed action (name and LCS number, if applicable):

Steeple Building (LCS # 00187).

4. Describe present condition of cultural resource(s):

The passage of Hurricane Hugo over St. Croix (17-18 September) occasioned the loss of many trees. The uprooting of a large mahogany undermined a section of the masonry foundation, retaining wall, and two columns for the Steeple Building yard fence. The total length of the area affected is approximately 15 feet.

5. Describe proposed action and explain why the action is needed:

It is proposed to reconstruct the damaged section of Steeple Building fence according to NPS standards for work on historic masonry at Christiansted NHS. This repair work is essential to maintain the architectural integrity and physical security of the Steeple Building.

6. In affecting cultural resources the proposed action will (check as many as apply):

- _____ Destroy historic fabric.
_____ Remove historic fabric.
_____ Replace historic fabric in kind.
_____ Replace missing historic fabric.
_____ Add nonhistoric elements to a historic structure.
_____ Remove nonhistoric elements from a historic

- structure.
- ☐ Alter historic terrain, groundcover, or vegetation.
- ☐ Introduce nonhistoric elements (visible, audible, or atmospheric) into a historic setting or environment.
- ☐ Reintroduce historic elements in a historic setting or environment.
- ☐ Remove historic elements from a historic environment.
- ☐ Remove nonhistoric elements from a historic environment.
- ☐ Disturb, destroy, impair, or render inaccessible archaeological (surface or subsurface) resources.
- ☐ Possibly disturb currently unidentified archaeological resources or historic fabric.
- ☐ Incur gradual deterioration of historic fabric, terrain, or setting.
- ☒ Other (describe briefly): Repair damaged historic fabric.

Describe the indicated effect(s) concisely:

The tree trunk and major root systems will be carefully removed from the affected area, minimizing ground disturbance to sound adjacent elements. Loose earth will be excavated around the base, the masonry footing and retaining wall relaid, the columns re-erected, and the wood fence sections reinstalled.

7. Is the proposed action limited to preservation maintenance? Yes (X) No ()

The proposed action will restore the affected architectural elements to their pre-hurricane appearance.

8. Identify any important relationships between the proposed action as it affects cultural resources and pertinent NPS management policies, standards, and guidelines:

National Historic Preservation Act
Archaeological Resources Protection Act
NPS-28

9. Is the proposed action included in any approved plan(s)? If there is no approved plan authorizing this action, so state.

The current standards for historic masonry work at Christiansted NHS are found in:

National Park Service, Southeast Region. "Preservation of Fort Christiansvaern, Phase II. Christiansted National Historic Site, St. Croix, U.S. Virgin Islands." RFP 5000-83-40. Section 04201, pages 1-5.

10. Describe any measures planned to minimize or lessen the loss or impairment of historic fabric, setting, integrity, or data:

The museum curator, CHRI, will oversee the following activities, which should minimize any loss or impairment of cultural resources: (1) the removal of the tree trunk and major root systems, and (2) the removal of loose fill to re-establish the foundation and retaining wall. Any archaeological material exposed in the course of these activities will be recovered.

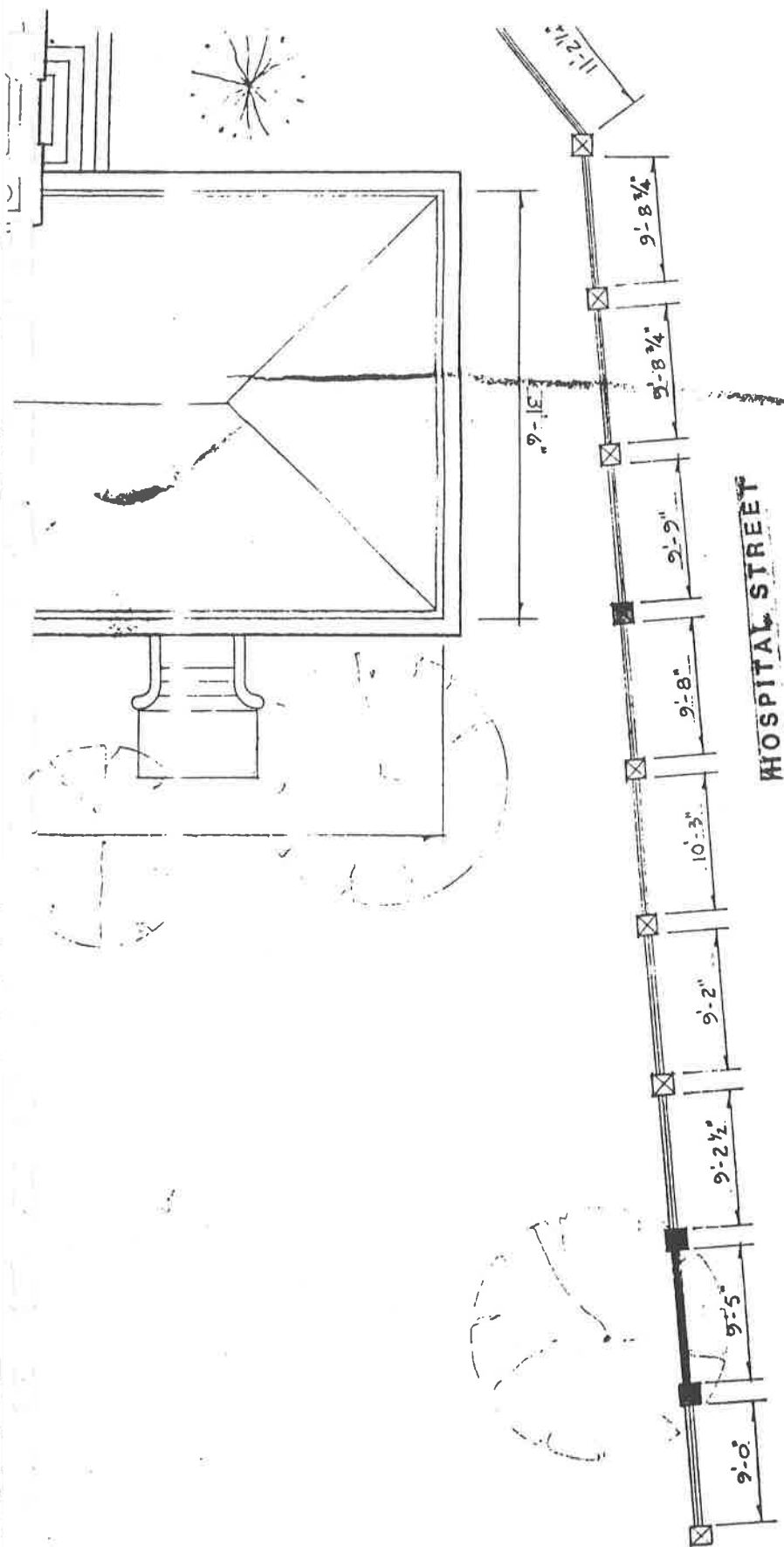
11. Identify supporting study data and date(s) of preparation (attach if feasible):

Rene Cote and Ron Bishop (SERO). "Preservation of the Steeple Building and Enclosing Fence." Drawing No. 399/80013. February 22, 1985.

Frederik C. Gjessing. "Historic Building Report. Steeple Building (Church of Our Lord of Ze-baoth [sic]). Architectural Data - Part II." National Park Service, Eastern Office, Division of Design and Construction. January, 1960.

Herbert Olsen. "Historic Structures Report. Steeple Building. Christiansted, St. Croix, U.S. Virgin Islands. Part I: Historical Data, Addenda and Corrections." National Park Service, Virgin Islands National Historic Site. November, 1960.

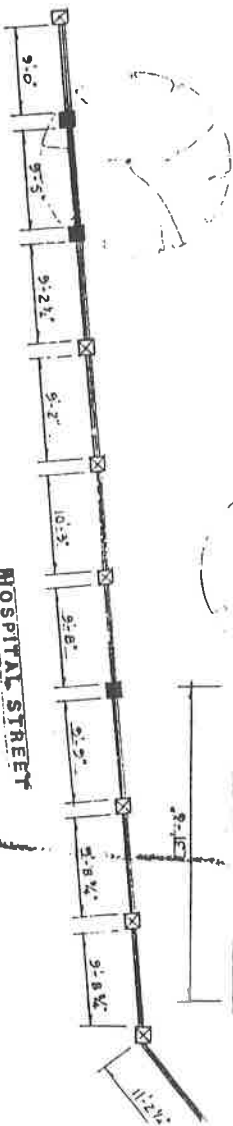
12. Prepared by W. L. [Signature] Title: Museum Technician
13. John W. Lynch 11/15/89
Park Superintendent (Acting) Date:



DAMAGED AREA INDICATED IN RED.

DAMAGED AREA INDICATED IN RED.

HOSPITAL STREET



B. REGIONAL CULTURAL RESOURCES STAFF REVIEW AND CERTIFICATION

PARK: Christiansted NHS

NUMBER: CHRI-90-08

PROPOSED ACTION: Steeple Building, reconstruct historic fence
damaged by Hurricane Hugo

YES NO N/A

☒ () ()

The foregoing assessment is adequate; the proposed action is consistent with all applicable NPS management policies, standards, and guidelines reviewed and concurred in by the Advisory Council; and the proposal incorporates all feasible measures to minimize adverse effects to cultural resources.

☒ () ()

The proposed action is authorized by a planning document or program reviewed and concurred in by the Advisory Council.

☒ () ()

Preservation Maintenance

Check One

()
☒
()

No Effect
No Adverse Effect
Adverse Effect

Conditions for Approval:


Regional Historic Architect

12/5/89
Date

B. REGIONAL CULTURAL RESOURCES STAFF REVIEW AND CERTIFICATION

PARK: Christiansted NHS

NUMBER: CHRI-90-08

PROPOSED ACTION: Steeple Building, reconstruct historic fence
damaged by Hurricane Hugo

YES NO N/A

(✓) () ()

The foregoing assessment is adequate; the proposed action is consistent with all applicable NPS management policies, standards, and guidelines reviewed and concurred in by the Advisory Council; and the proposal incorporates all feasible measures to minimize adverse effects to cultural resources.

(✓) () ()

The proposed action is authorized by a planning document or program reviewed and concurred in by the Advisory Council.

(✓) () ()

Preservation Maintenance

Check One

(✓)
()
()

No Effect
No Adverse Effect
Adverse Effect

Conditions for Approval:

Leonard E Brown

Regional Historian

11/27/89

Date

REC-1

NOV 28 1989

CULTURAL RESOURCES

B. REGIONAL CULTURAL RESOURCES STAFF REVIEW AND CERTIFICATION

PARK: Christiansted NHS

NUMBER: CHRI-90-08

PROPOSED ACTION: Steeple Building, reconstruct historic fence
damaged by Hurricane Hugo

YES NO N/A

(X) () ()

The foregoing assessment is adequate; the proposed action is consistent with all applicable NPS management policies, standards, and guidelines reviewed and concurred in by the Advisory Council; and the proposal incorporates all feasible measures to minimize adverse effects to cultural resources.

(X) () ()

The proposed action is authorized by a planning document or program reviewed and concurred in by the Advisory Council.

(X) () ()

Preservation Maintenance

Check One

()

No Effect

(X)

No Adverse Effect

()

Adverse Effect

Conditions for Approval:

Pete Faust by Mitchell
Regional Archeologist

12/6/89
Date

XXX FORM

ASSESSMENT OF ACTIONS HAVING AN EFFECT ON CULTURAL RESOURCES
Southeast Regional Office
(Attach continuation sheets as necessary)

A. Originating Office

1. Park: Christiansted NHS.

2. Description of proposed action:

- ☒ [X] Implementing action included in plan under PMOA
[] Other PMOA action _____
[] Section 106 action not under PMOA

3. Cultural resources affected by proposed action (name and LCS number, if applicable):

Fort Christiansvaern (LCS # 00188).

4. Describe present condition of cultural resource(s):

The passage of Hurricane Hugo over St. Croix (17-18 September) was accompanied by winds in excess of 200 MPH and waves of undetermined height. Two wing walls at Fort Christiansvaern (one extending seaward from the latrines in the northwest salient, and the other extending seaward from the stables to the northeast) were partially destroyed by large (45'-60') yachts that were forced ashore during the storm. Approximately 10 feet in length of masonry was lost from each wing wall.

5. Describe proposed action and explain why the action is needed:

It is proposed to reconstruct the destroyed sections of the two wing walls, using modern materials to differentiate from the original fabric. These architectural features are significant components of Fort Christiansvaern's overall architectural integrity and security perimeter.

6. In affecting cultural resources the proposed action will (check as many as apply):

- ____ Destroy historic fabric.
____ Remove historic fabric.
____ Replace historic fabric in kind.

- ☐ Replace missing historic fabric.
- ☐ Add nonhistoric elements to a historic structure.
- ☐ Remove nonhistoric elements from a historic structure.
- ☐ Alter historic terrain, groundcover, or vegetation.
- ☐ Introduce nonhistoric elements (visible, audible, or atmospheric) into a historic setting or environment.
- ☐ Reintroduce historic elements in a historic setting or environment.
- ☐ Remove historic elements from a historic environment.
- ☐ Remove nonhistoric elements from a historic environment.
- ☐ Disturb, destroy, impair, or render inaccessible archaeological (surface or subsurface) resources.
- ☐ Possibly disturb currently unidentified archaeological resources or historic fabric.
- ☐ Incur gradual deterioration of historic fabric, terrain, or setting.
- ☒ Other (describe briefly): Replace damaged/missing nonhistoric fabric.

Describe the indicated effect(s) concisely:

The reconstruction/replacement work will follow the standards and procedures applied to the same elements in 1985-86.

7. Is the proposed action limited to preservation maintenance? Yes () No (X)

The affected wing walls will be reconstructed to their pre-hurricane appearance.

8. Identify any important relationships between the proposed action as it affects cultural resources and pertinent NPS management policies, standards, and guidelines:

National Historic Preservation Act
NPS-28

9. Is the proposed action included in any approved plan(s)? If there is no approved plan authorizing this action, so state.

The concept of restoring the historic scene at Christiansted NHS can be found in the following:

Robert Bradley et al. Cultural Landscape Report, Christiansted National Historic Site, St. Croix

U.S. Virgin Islands. Approved March 5, 1986.

Wally Hibbard et al. General Management Plan/
Environmental Assessment, Christiansted National
Historic Site, St. Croix, U.S. Virgin Islands.
Approved June, 1986.

Draft Resource Management Plan, Christiansted Nat-
ional Historic Site. 1989.

10. Describe any measures planned to minimize or lessen the loss or impairment of historic fabric, setting, integrity, or data:

The area surrounding the wing wall has already been substantially disturbed, from an archaeological perspective. No further impact to cultural resources are therefore anticipated.

11. Identify supporting study data and date(s) of preparation (attach if feasible):

None is available to the Park staff.

12. Prepared by W. K. [Signature] Title: Museum Technician
13. John D. Lynch 11/16/89
Park Superintendent (Acting) Date:

Additional requirements of the proposed action:

Regional approval of proposed action including additional requirements.

(X) The proposed action, including any additional requirements stated above, meets all conditions in B.1 and 2, or is an Energy Management Project meeting only conditions in B.1, and therefore, satisfies the requirements of Section 106.



Deputy Associate Regional Director,
Cultural Resources
for the Regional Director

Date

B. REGIONAL CULTURAL RESOURCES STAFF REVIEW AND CERTIFICATION

PARK: Christiansted NHS

NUMBER: CHRI-90-03

PROPOSED ACTION: Fort Christiansvaern LCS# 00188
Repair or reconstruct wing walls damaged by
Hurricane Hugo

YES NO N/A

(✓) () ()

The foregoing assessment is adequate; the proposed action is consistent with all applicable NPS management policies, standards, and guidelines reviewed and concurred in by the Advisory Council; and the proposal incorporates all feasible measures to minimize adverse effects to cultural resources.

(✓) () ()

The proposed action is authorized by a planning document or program reviewed and concurred in by the Advisory Council.

(✓) () ()

Preservation Maintenance

Check One

(✓)
()
()

No Effect
No Adverse Effect
Adverse Effect

Conditions for Approval:

RECEIVED

NOV 9 1989

CULTURAL
PLANNING DIVISION



Regional Historian

12/6/89

Date

B. REGIONAL CULTURAL RESOURCES STAFF REVIEW AND CERTIFICATION

PARK: Christiansted NHS

NUMBER: CHRI-90-03

PROPOSED ACTION: Fort Christiansvaern LCS# 00188
Repair or reconstruct wing walls damaged by
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(X) () ()

The proposed action is authorized by a planning document or program reviewed and concurred in by the Advisory Council.

(X) () ()

Preservation Maintenance

Check One

()
(X)
()

No Effect
No Adverse Effect
Adverse Effect

Conditions for Approval:

Billy D. Davis
Regional Historic Architect

12/5/89
Date

B. REGIONAL CULTURAL RESOURCES STAFF REVIEW AND CERTIFICATION

PARK: Christiansted NHS

NUMBER: CHRI-90-03

PROPOSED ACTION: Fort Christiansvaern LCS# 00188
Repair or reconstruct wing walls damaged by
Hurricane Hugo

YES NO N/A

(X) () ()

The foregoing assessment is adequate; the proposed action is consistent with all applicable NPS management policies, standards, and guidelines reviewed and concurred in by the Advisory Council; and the proposal incorporates all feasible measures to minimize adverse effects to cultural resources.

(X) () ()

The proposed action is authorized by a planning document or program reviewed and concurred in by the Advisory Council.

(X) () ()

Preservation Maintenance

Check One

()
(X)
()

No Effect
No Adverse Effect
Adverse Effect

Conditions for Approval:

Pete Faust, by Mitchell
Regional Archeologist

12/6/87
Date

JOURNAL AND CORRESPONDENCE

PRE-CONSTRUCTION

BI-WEEKLY REPORTS

MEMORANDA

REQUISITIONS

COMMITMENT CONTROL REGISTER

FINAL INSPECTION

JOURNAL

JUL 29 1992

H30 (SER-OHA)

Memorandum

To: Superintendent, Virgin Islands National Park

From: Supervisory Exhibit Specialist, Historic Architecture
Division, Southeast Region

Subject: Progress Report for Steeple Building, Christiansted
June 22 thru July 17, 1992

The preservation crew began rebuilding demolished columns at north wall of Steeple Building. Column #1, north wall requires base to be completely reconstructed. A 3 feet high section of the column has been salvaged and reset on column base. Large pockets to accommodate new fence has been left in new work. The column cap will be set after fence is in place. Column #2 on north wall has been dismantled and a 3' section of column salvaged and reset on existing column base. The re-assembly of all column pieces have been pinned together with 3/8" stainless steel rod placed in holes drilled on all four sides of column section.

Work on east wall began with the excavation of approximately three yards of dirt and clay backfill on the rear side of columns and wall section. All brick has been salvaged from buried remnants of wall. Column B (second column from southeast corner) was wrapped in a plywood and lumber frame and hoisted off its base and moved 4 feet to one side. The column base was lifted off its compacted clay foundation and moved to another side. Approximately 12" of clay material was excavated below grade the entire 20 foot length of wall section for a new concrete footer. 1 1/2 yards of 3000# concrete was placed.

JUL 29 1992

H30 (SER-OHA)

Memorandum

To: Superintendent, Virgin Islands National Park

From: Supervisory Exhibit Specialist, Historic Architecture
Division, Southeast Region

Subject: Progress Report for Steeple Building, Christiansted
July 18 thru July 24, 1992

The preservation crew completed the following:

Three columns at east wall were reassembled and reset. Two columns at north wall were reassembled and reset. Two fences at north wall were reinstalled.

Project is on time and under budget. Projected completion: July 31, 1992.

PHOTOGRAPHS

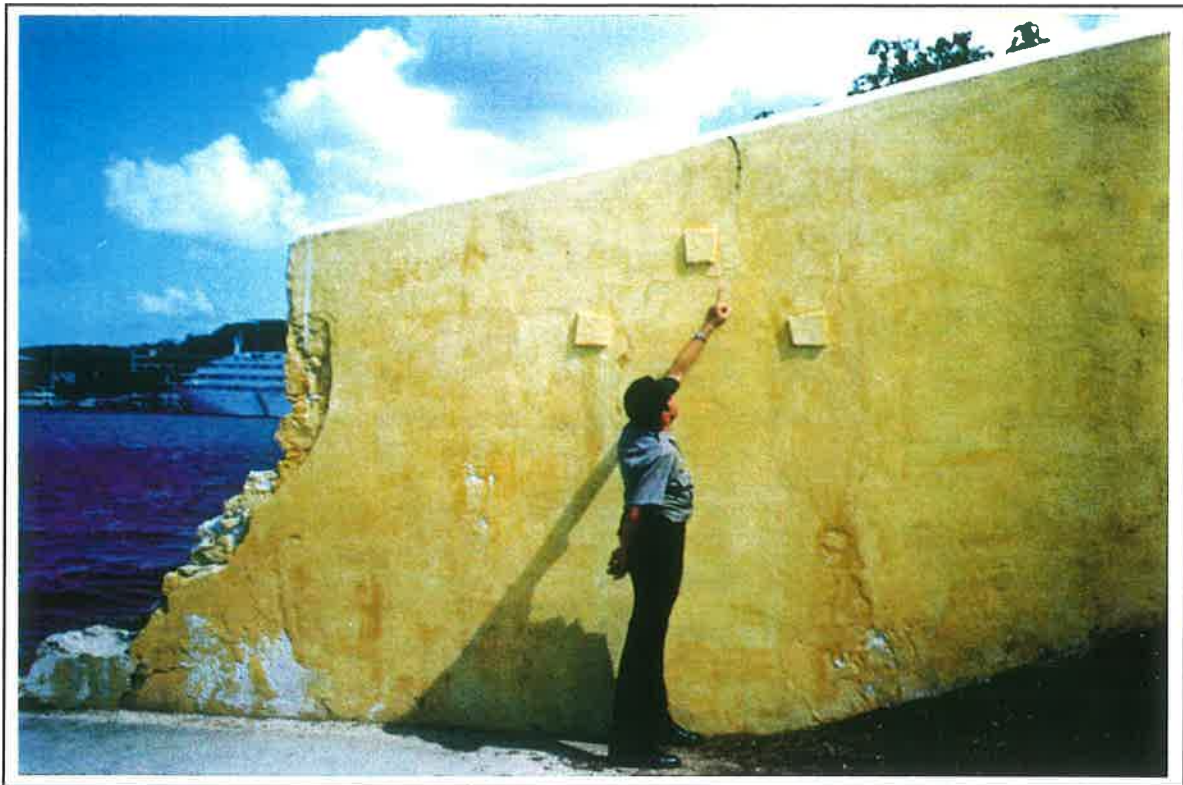
PHOTOS



Steeple Building Fence showing Hurricane Hugo damage



Steeple Building Fence following repairs by Field Services Unit



North wingwall prior to reconstruction of extension



Concrete footing was repaired and reused for wingwall extension



Scaffold was erected in the water in order to rebuild the wall



Concrete block was attached to the existing stone work with 3/4 inch galvanized rods anchored horizontally at 16 inch intervals



The finished wall prior to stucco application