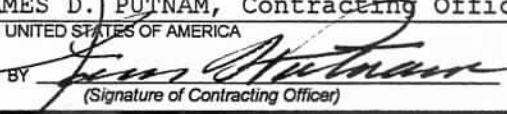


AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE		PAGE OF PAGES 1 4	
2. AMENDMENT/MODIFICATION NO. 001		3. EFFECTIVE DATE See Blk 16C		4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO. (If applicable)	
ISSUED BY Commander, Pacific Division (Code 021) Naval Facilities Engineering Command Bldg. 258, Makalapa Drive Pearl Harbor, Hawaii 96860-7300		CODE C2742		7. ADMINISTERED BY (If other than Item 6)		CODE	
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP code)				(X)		9A. AMENDMENT OF SOLICITATION NO. N62742-95-R-1369	
				X		9B. DATED (SEE ITEM 11) 13 December 1996	
						10A. MODIFICATION OF CONTRACT/ORDER NO.	
						10B. DATED (SEE ITEM 13)	
CODE		FACILITY CODE					
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS							
<input checked="" type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended, <input checked="" type="checkbox"/> is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning (1) copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.							
12. ACCOUNTING AND APPROPRIATION DATA (If required)							
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.							
(X) A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.							
B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO AUTHORITY OF FAR 43.103(b).							
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:							
D. OTHER (Specify type of modification and authority)							
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input type="checkbox"/> is required to sign this document and return _____ copies to the issuing office.							
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)							
UNEXPLODED ORDNANCE CLEARANCE PROJECT, KAHOLAWE ISLAND RESERVE							
The purpose of this amendment is to: (1) redefine historic preservation services in the Sample Project; (2) correct minor errors in Sections G, L, and M; and (3) incorporate a Glossary of Terms.							
Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.							
15A. NAME AND TITLE OF SIGNER (Type or print)				16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)			
				JAMES D. PUTNAM, Contracting Officer			
15B. CONTRACTOR/OFFEROR		15C. DATE SIGNED		16B. UNITED STATES OF AMERICA		16C. DATE SIGNED	
(Signature of person authorized to sign)				BY  (Signature of Contracting Officer)		97 JAN 09	
NSN 7540-01-152-8070 PREVIOUS EDITION UNUSABLE				30-105 STANDARD FORM 30 (REV. 10-83) Prescribed by GSA FAR (48 CFR) 53.243			

Encl: (1) Attachment JL.2, Sample Project Description (Amendment 0001)
(2) Glossary of Terms

A. Section G

Page G-4, paragraph G4, subparagraph D.6.

Delete, "The period of performance and delivery date."

Insert, "The period of performance and a schedule of work for completion of the task order."

B. Section J

Attachment JL.2, Sample Project Description. Remove in its entirety and replace with Enclosure (1). The changes are italicized and highlighted by a bold vertical line in the margins.

1. Enclosures. The following enclosures have been inserted:

(SP-3) Kaho'olawe Map

- (1) National Register of Historic Places Inventory - Nomination Form, Kaho'olawe Site 104, dtd 4 May 1979 (10 pages).
- (2) National Register of Historic Places Inventory - Nomination Form, Kaho'olawe Site 150, dtd 5 July 1979 (12 pages).
- (3) National Register of Historic Places Inventory - Nomination Form, Kaho'olawe Site 400, dtd 5 May 1979 (6 pages).
- (4) National Register of Historic Places Inventory - Nomination Form, Kaho'olawe Site 401, dtd 5 May 1979 (9 pages).
- (5) National Register of Historic Places Inventory - Nomination Form, Kaho'olawe Site 402, dtd 5 May 1979 (5 pages).
- (6) National Register of Historic Places Inventory - Nomination Form, Kaho'olawe Site 419, dtd 7 May 1979 (5 pages).

2. Paragraph 1(c): Delete the first sentence and insert, "The Contractor shall provide only those Deliverables listed in paragraph 3d."

3. Paragraph 1: Insert subparagraph (e) which states, "For the purposes of the Sample Project, the Contractor shall only provide historic preservation services for the protection of historic properties within a specified area, and only in support of the UXO clearance of that area (see subparagraphs 3a and 3b)."
4. Paragraph 3(a): Insert subparagraph (6) which states, "Historic preservation services shall be limited to the protection of historic properties during the UXO clearance of the Water Tank Sub-area located within Clearance Area A. The area is shown in enclosure (SP-1). The historic properties to be taken into consideration shall be those which, based on the locations shown on the Kaho'olawe Map in enclosure (SP-3), are located within 1,500 feet of the UXO item requiring BIP. The Kaho'olawe Map is also provided in the Cultural Resources Management Plan for the Kaho'olawe Archaeological District, as listed in Section C, Part 15.0 - Reference Documents, of the Request for Proposal (RFP)."
5. Paragraph 3(b)(2): Delete in its entirety and replace with, "Descriptive information on the historic properties located within 1500 feet of the Water Tank Sub-area is provided on the National Register of Historic Places (NRHP) nomination forms (enclosures (1) to (6)). Additional information on these historic properties may be found within reference documents listed in Section C, Part 15.0 of the RFP."
6. Paragraph 5(b): Delete the last sentence which states, "However, some Historic Properties may be encountered."
7. Paragraph 5(c)(3): Delete in its entirety.

C. Section L

Page L-25, paragraph 6, Part 1, Subpart 2.

Delete, "(see Paragraph L6) and insert, "(see Paragraph L5)"

D. Section M

Page M-1, paragraph M2, subparagraph C.

Delete, "...as noted in Section L, paragraph L-5, is hereby modified."
and insert, "...as noted in Section L, paragraph L-4, is hereby modified."

- E. A Glossary of Terms is incorporated at Enclosure (2).
- F. The hour and date specified for receipt of Offers is not extended as a result of this amendment.
- G. All other terms and conditions remains unchanged and in full force and effect.

SAMPLE PROJECT WRITE-UP

Enclosure (1)
Amendment 0001

ATTACHMENT JL.2

UNEXPLODED ORDNANCE (UXO) CLEARANCE PROJECT KAHO'OLAWA ISLAND, HAWAII

SAMPLE PROJECT WRITE UP REFERENCES AND ENCLOSURES

- Ref:**
- (a) Unexploded Ordnance (UXO) Model Clearance Project, Island of Kaho'olawe, Clearance Results Map, current version
 - (b) Navy NAVFAC Design Manual 5.5, General Provisions and Geometric Design for Roads, Streets, Walks, and Open Storage Areas, current version
 - (c) Military Handbook 1005/2, Hydrology, and the Military Handbook 1005/3, Drainage Systems, current version
 - (d) Storm Water Management Plan for Camp Kaho'olawe, Kaho'olawe, Hawaii, (Final), September 1996
 - (e) Topographic Survey-Unexploded Ordnance (UXO) Model Cleanup Map, May 1996
 - (f) Kaho'olawe Use Plan Prepared for Kaho'olawe Island Reserve Commission (KIRC), December 1995
- Encl:**
- (SP-1) Sample Project Eastern Kaho'olawe Ordnance Clearance Limits dtd 14 Nov 1996
 - (SP-2) Sample Project Base Camp Ordnance Clearance Limits dtd 14 Nov 1996
 - (SP-3) *Kaho'olawe Map*
 - (TR-1) Kaho'olawe Roadway Improvement Limits dtd 1 Oct 1996
 - (1) *National Register of Historic Places Inventory-Nomination Form, Kaho'olawe Site 104, dtd 4 May 1979 (10 pages).*

**UNEXPLODED ORDNANCE (UXO) CLEARANCE PROJECT
KAHO'OLAWA ISLAND, HAWAII**

SAMPLE PROJECT WRITE UP REFERENCES AND ENCLOSURES

- (2) *National Register of Historic Places Inventory-Nomination Form, Kaho'olawe Site 150, dtd 5 July 1979 (12 pages).*
- (3) *National Register of Historic Places Inventory-Nomination Form, Kaho'olawe Site 400, dtd 5 May 1979 (6 pages).*
- (4) *National Register of Historic Places Inventory-Nomination Form, Kaho'olawe Site 401, dtd 5 May 1979 (9 pages).*
- (5) *National Register of Historic Places Inventory-Nomination Form, Kaho'olawe Site 402, dtd 5 May 1979 (5 pages).*
- (6) *National Register of Historic Places Inventory-Nomination Form, Kaho'olawe Site 419, dtd 7 May 1979 (5 pages).*

**UNEXPLODED ORDNANCE (UXO) CLEARANCE PROJECT
KAHO'OLAWA ISLAND, HAWAII**

SAMPLE PROJECT WRITE-UP

1. INTRODUCTION.

- a. The intent of this Sample Project is for the Contractor to provide all services, material, and equipment to complete UXO Clearance, Base Camp Operations, and Temporary Roadway Improvements on the Kaho'olawe Island Reserve (KIR), Hawaii. All work shall be accomplished in accordance with this Sample Project Write Up and Section C of the Request For Proposal (RFP).
- b. The work under the UXO Clearance and Base Camp portions of the Sample Project shall be proposed in accordance with the Service Contract Act for services. The work under the Temporary Roadway Improvements of the Sample Project shall be proposed in accordance with the Davis-Bacon Act for construction. It shall be assumed that the work will be accomplished concurrently.
- c. *The Contractor shall provide only those Deliverables listed in paragraph 3d. The Sample Project does not require the Contractor to provide temporary facilities and utilities.*
- d. The Contractor shall develop a time line for all activities in the Sample Project.
- e. *For the purposes of the Sample Project, the Contractor shall only provide historic preservation services for the protection of historic properties within a specified area, and only in support of the UXO clearance of that area (see paragraphs 3a and 3b).*

2. MOBILIZATION.

Mobilization is required for all work described in this Sample Project and includes initial mobilization of personnel, equipment and transportation of the workforce to and from the island. Indicate the frequency of travel, rotations (if any), and the type of transportation to be used for this effort.

3. UXO CLEARANCE.

a. UXO Clearance - Assumptions.

- 1) Following mobilization, the Contractor can immediately begin UXO

clearance work. The Contractor shall base all UXO clearance activities on regular time only (ie, no overtime).

- 2) The existing K-1 Road from the Base Camp, at Honokanaia, to Lua Makika has already been improved to satisfactorily complete UXO clearance activities.
- 3) The amount of UXO found and the amount to be Blown In Place (BIP) in each area, shall be as listed in Tables 1 and 2. The remaining UXO that is left after BIP and the UXO remnants 1" x 2" or larger (amount of remnants indicated in Tables 1 and 2), shall be picked up and stored for future treatment (ie, thermal treatment or OB/OD (Open Burn/Open Detonation)). No final treatment of stored material will be required.
- 4) An even distribution of UXO and remnants are within the Sub area(s) listed in Tables 1 and 2.
- 5) No UXO clearance work at the beach landing area will be required.
- 6) *Historic preservation services shall be limited to the protection of historic properties during the UXO clearance of the Water Tank Sub-area located within Clearance Area A. The area is shown in enclosure (SP-1). The historic properties to be taken into consideration shall be those which, based on the locations shown on the Kaho'olawe Map in enclosure (SP-3), are located within 1,500 feet of the UXO item requiring BIP. The Kaho'olawe Map is also provided in the Cultural Resources Management Plan for the Kaho'olawe Archaeological District, as listed in Section C, Part 15.0-Reference Documents, of the Request For Proposal (RFP).*

b. Existing Conditions.

- 1) Existing contours and slope terrain are shown on enclosures (SP-1) and (SP-2). Additionally, information on the description of the existing surface coverage are indicated in references (d) and (f).
- 2) *Descriptive information on the historic properties located within 1500 feet of the Water Tank Sub-area is provided on the National Register of Historic Places (NRHP) nomination forms (enclosures (1) to (6)). Additional information on these historic properties may be found within reference documents listed in Section C, Part 15.0 of the RFP.*

c. Areas.

- 1) The UXO Clearance portion of the Sample Project involves the required effort to provide UXO clearance, in specified areas and to specific clearance levels, on the KIR.
- 2) The UXO clearance areas shall include:
 - a) UXO Clearance Area "A" - Eastern Kaho'olawe.
 - (1) The UXO Clearance Area "A" is located at Lua Makika in an area around the highest elevation portion of the island of Kaho'olawe. The total area of UXO Clearance Area "A" is 26.30 Hectares (65.00 acres). The area is shown on enclosure (SP-1). The Contractor shall base the Sample Project on the sub areas and the clearance levels listed in Table 1.

TABLE 1

SUB AREAS DESCRIPTION	AREAS IN HECTARES (ACRES)	NO. OF UXO ASSUMED FOUND	UXO REQUIRING BIP	UXO REMNANTS 1" X 2" OR LARGER IN METRIC TONS (POUNDS)	CLEARANCE LEVELS
Revegetation	11.33 Hectares (28.00 Acres)	140	28 (40mm HE, M26 submunition, 81mm WP, 81mm HE)	0 Metric Tons (0 Pounds)	Surface Sweep (Visual): Ordnance/Explosive (OE) Removal: UXO/Explosives Only
Grasslands	9.31 Hectares (23.00 Acres)	115	23 (20mm HE, 40mm HE, M38 submunition, 60mm HE, 81mm WP)	1.04 Metric Tons (2300 Pounds)	Surface Sweep (Detector Aided): OE Removal: UXO, OE & Remnants
Erosion Control	3.64 Hectares (9.00 Acres)	45	9 (40MM HE, 2.75" HE, 60MM HE, 81MM WP, 100 lb A/N Bomb)	0.41 Metric Tons (900 Pounds)	Sub Surface Detection: Surface to 1' Depth

Trails	0.12 Hectares (0.30 Acres)	2	1 (M26 submunition)	0.01 Metric Tons (30 Pounds)	Sub Surface Detection: Surface to 1' Depth
Water Tank	0.08 Hectares (0.20 Acres)	1	1 (MK82 HE)	0.01 Metric Tons (20 Pounds)	Sub Surface Detection: Surface to 4' Depth
Roads	0.40 Hectares (1.00 Acres)	5	1 (500 lb A/N Bomb)	0.05 Metric Tons (100 Pounds)	Sub Surface Detection: Surface to 4' Depth
Nursery	1.22 Hectares (3.00 Acres)	15	3 (5" HE, 100 lb A/N Bomb, MK82 HE)	0.14 Metric Tons (300 Pounds)	Sub Surface Detection: Surface to 4' Depth
Soil Borrow/ Reservoir	0.20 Hectares (0.50 Acres)	3	2 (60mm HE, MK82 HE)	0.02 Metric Tons (50 Pounds)	Sub Surface Detection: Surface to 10' Depth

- (2) See Part 1.2.6, UXO Clearance Tier Chart, in Section C for additional specific requirements for each clearance level.

b) UXO Clearance Area "B" - Base Camp.

- (1) The UXO Clearance Area "B" is an area within the boundaries of the existing Base Camp. The total area of UXO Clearance Area "B" is 0.40 Hectares (1.00 acre). The area is shown on enclosure (SP-2). The Contractor shall base the Sample Project on the sub area and clearance level listed in Table 2.

TABLE 2

SUB AREA DESCRIPTION	AREA HECTARES (ACRES)	NO. OF UXO ASSUMED FOUND	UXO REQUIRING BIP	UXO REMNANTS 1" X 2" OR LARGER IN METRIC TONS (POUNDS)	CLEARANCE LEVEL
Base Camp	0.40 Hectares (1.00 Acre)	5	1 (40mm HE)	0.05 Metric Tons (100 Pounds)	Sub Surface Detection: Surface to 4' Depth

- (2) This entire area shall be cleared to the Tier II Level. See Part 1.2.6, UXO Clearance Tier Chart in Section C for additional

specific clearance level requirements.

d. Deliverables.

- 1) The Contractor shall provide a brief description and an estimated cost of each UXO related Deliverable as listed in Table 3. Assume that all Deliverable Plans and SOPs (ie, CDL A19 - Work Plan, CDL A20 - Work Plan SOPs, etc.) have already been submitted and accepted.
- 2) The cost for the Deliverables shall be estimated for the UXO clearance duration, determined by the Contractor, as indicated in the time line developed in paragraph 1d.

TABLE 3

WORK BREAKDOWN STRUCTURE (WBS) NO.	CONTRACT DELIVERABLE LIST (CDL) ITEM NO.	DESCRIPTION
331.01.03.53.14	CDL A3	PROGRAM MANAGEMENT REPORTS: Daily Production
331.01.03.56.07	CDL A6	HEALTH AND SAFETY REPORTS: Safety Hazard Analysis
331.01.03.56.08	CDL A6	HEALTH AND SAFETY REPORTS: Hazards of Electromagnetic Radiation to Ordnance (HERO)
331.01.03.74.02	CDL A24	RANGE CONTROL OPERATIONS REPORTS: Surveying Data (GPS)
331.01.03.74.03	CDL A24	RANGE CONTROL OPERATIONS REPORTS: UXO Clearance Records

331.01.03.74.04	CDL A24	RANGE CONTROL OPERATIONS REPORTS: UXO Clearance Certification
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4. BASE CAMP.

a. Base Camp Improvements - Assumptions.

Base Camp Improvements have been designed and constructed to support the Sample Project. The assumed improvements include:

- 1) Housing and related facilities (example: dining, showers, toilets) to accommodate all Government, Contractor and Kaho'olawe Island Reserve Commission (KIRC) personnel performing work under the UXO Clearance, Base Camp Operations, and Temporary Roadway Improvements portions of the Sample Project.
- 2) Grading and drainage to accommodate the new Contractor housing area.
- 3) Storage/staging area within the existing Boneyard site.
- 4) New Contractor office facilities.
- 5) New fire suppression/sprinkler system for the new housing.
- 6) Solid waste recycling program.
- 7) Expansion of the electrical system.
- 8) Installation of reverse osmosis (RO) water treatment unit feedwater and brine disposal wells to accommodate the potable water demand.

b. Existing Conditions.

The existing conditions of the Base Camp facilities, surrounding slope terrain, and surface coverage information are indicated in reference (d). Additional surface coverage information is indicated in reference (f). Contours of the existing Base Camp are shown on enclosure (SP-2).

c. Base Camp Operations.

The Base Camp Operations shall include daily support, operations and maintenance of the present Base Camp facilities and the above mentioned list to accommodate ten (10) Government and KIRC personnel and a maximum of fifty (50) Contractor personnel, for a total of sixty (60) personnel performing work under the UXO Clearance, Base Camp Operations, and Temporary Roadway Improvements portions of the Sample Project.

5. TEMPORARY ROADWAY IMPROVEMENTS.

a. Engineering and Construction Services.

Provide engineering and construction services which include the technical rationale and basis for the proposal and conceptual sketches for the elements listed below.

b. Temporary Roadway Improvements - Assumptions.

The access road from the K-1 Road at Lua Makika, to Puu Moaulaiki has been cleared of UXO to a depth of 1 219 millimeters (4-feet). Therefore, no ordnance clearance is required for the Temporary Roadway Improvements.

c. Existing Conditions.

- 1) The existing access road begins from the K-1 Road (the main arterial road on Kaho'olawe) at Lua Makika and traverses 0.8 km (0.5 miles) to Puu Moaulaiki. The roadway condition varies greatly and is comprised of very rocky and uneven grounds. Currently, the ride is slow and bumpy and subjects the body to tremendous fatigue and trauma. The road is lower than the existing ground level in many areas and becomes a channel with high erosion potential during storm conditions. There are no shoulders or turn-arounds along the length of roadway. The road width varies and the limits of roadway is not clearly defined. The existing horizontal and vertical alignment basically follows the existing topography and terrain.
- 2) The existing access road contours and a description of the existing ground coverage are indicated in references (e) and (f), respectively.
- 3) (DELETED)

d. Roadway Improvements.

1) Design and Construction.

- (a) The purpose of the roadway improvements are to provide an efficient and reasonable means of transporting equipment, personnel, scrap metal, UXO and other various actions that would be required under this contract.
- (b) The roadway improvements shall consist of a design and construction of the existing access road that leads to the Puu Moaulaiki area from the existing K-1 Road at Lua Makika as indicated in paragraph 4a. The limits of the roadway improvements are shown on enclosure (TR-1) and will be based on the following:
 - (1) The existing road shall be improved to a single lane of minimum width of 3 657 mm (12-feet). The road shall be designed for very low vehicular traffic with a design speed of 24 km/h (15 mph). The road design shall also include a minimum of one (1) turnaround for this Sample Project.
 - (2) The Contractor shall keep all proposed road and construction activities within the areas cleared of UXO as indicated in reference (a).

2) Grading.

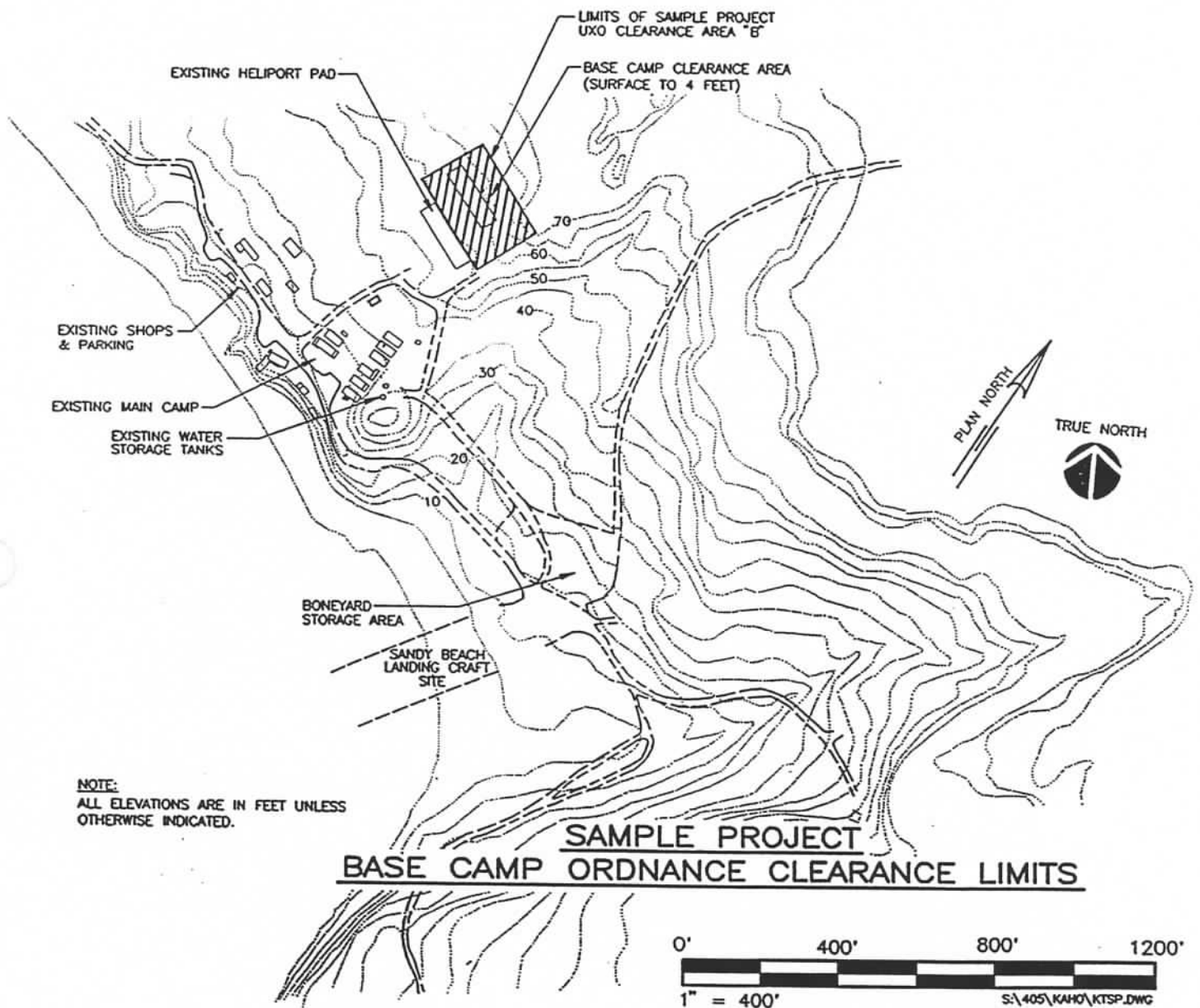
Large quantities of borrow and base course will be required to fill and grade the road as necessary. Therefore, all aggregate materials shall be imported. The finished material shall be compacted to its minimum required density.

3) Drainage.

- (a) The design shall minimize low points in the roadway and ensure proper drainage to eliminate any water ponding potential.
- (b) Interceptor swales shall be used on both sides of the roadway cross section to minimize erosion to the compacted surface
- (c) Culverts, if any, shall have a minimum diameter size of 609 mm (24-inch) and sloped to drain.

4) Design References.

The roadway and drainage designs shall be in accordance with, but not limited to, references (b) and (c), respectively.



SP-2
14 NOV 96

GSP CENTRAL FILES

UNITED STATES DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICENATIONAL REGISTER OF HISTORIC PLACES
INVENTORY -- NOMINATION FORM

FOR FEDERAL PROPERTIES

FOR NPS USE ONLY

RECEIVED

DATE ENTERED

SEE INSTRUCTIONS IN HOW TO COMPLETE NATIONAL REGISTER FORMS
TYPE ALL ENTRIES -- COMPLETE APPLICABLE SECTIONS

1 NAME

HISTORIC

AND/OR COMMON

Kaho'olawe Site 104

2 LOCATION

STREET & NUMBER

Island of Kaho'olawe 9992

CITY, TOWN

NOT FOR PUBLICATION

CONGRESSIONAL DISTRICT

STATE

Hawaii

VICINITY OF

CODE

15

COUNTY

Maui

CODE

009

3 CLASSIFICATION

CATEGORY

☐ DISTRICT
☐ BUILDING(S)
☐ STRUCTURE
☒ SITE
☐ OBJECT

OWNERSHIP

☒ PUBLIC
☐ PRIVATE
☐ BOTH

PUBLIC ACQUISITION

☐ IN PROCESS
☐ BEING CONSIDERED

STATUS

☐ OCCUPIED
☒ UNOCCUPIED
☐ WORK IN PROGRESS
☐ ACCESSIBLE
☒ YES: RESTRICTED
☐ YES: UNRESTRICTED
☐ NO

PRESENT USE

☐ AGRICULTURE
☐ COMMERCIAL
☐ EDUCATIONAL
☐ ENTERTAINMENT
☐ GOVERNMENT
☐ INDUSTRIAL
☒ MILITARY
☐ MUSEUM
☐ PARK
☐ PRIVATE RESIDENCE
☐ RELIGIOUS
☐ SCIENTIFIC
☐ TRANSPORTATION
☐ OTHER:

4 AGENCY

REGIONAL HEADQUARTERS. (If applicable)

United States of America
Department of the Navy

STREET & NUMBER

Naval Air Station, Barber's Point

CITY, TOWN

STATE

Hawaii

5 LOCATION OF LEGAL DESCRIPTION

COURTHOUSE,
REGISTRY OF DEEDS, ETC

Pacific Division

STREET & NUMBER

Naval Facilities Engineering Command

CITY, TOWN

STATE

Hawaii 96860

6 REPRESENTATION IN EXISTING SURVEYS

TITLE

DATE

☐ FEDERAL ☐ STATE ☐ COUNTY ☐ LOCALDEPOSITORY FOR
SURVEY RECORDS

CITY, TOWN

STATE

GSP CENTRAL FILES

104
Enclosure (1)

7 DESCRIPTION

<input checked="" type="checkbox"/> EXCELLENT	CONDITION	<input checked="" type="checkbox"/> DETERIORATED	CHECK ONE	CHECK ONE
<input type="checkbox"/> GOOD		<input type="checkbox"/> RUINS	<input type="checkbox"/> UNALTERED	<input type="checkbox"/> ORIGINAL SITE
<input type="checkbox"/> FAIR		<input type="checkbox"/> UNEXPOSED	<input type="checkbox"/> ALTERED	<input type="checkbox"/> MOVED DATE _____

DESCRIBE THE PRESENT AND ORIGINAL (IF KNOWN) PHYSICAL APPEARANCE

Kaho'olawe Site 104* is a complex consisting of 14 activity areas located on the slope of Lua Makika, on the east end of Kaho'olawe Island. It includes evidence of the preparation and consumption of food, shellfish collection, the manufacture and use of lithic tools and the manufacture and use of non-lithic tools. The permanence of residence cannot be firmly established with the evidence which is presently available, but the lack of habitation structures suggests that occupation was temporary or intermittent. A single basaltic glass hydration-rind date of A.D. 1584 \pm 38 was obtained for a sample from Feature A. The boundaries were determined arbitrarily, because the density of activity areas in this part of the island makes it impossible to discern discrete archaeological site boundaries.

The site is situated at an elevation of approximately 435 meters, in a denuded area that is interspersed with remnant hummocks on which are growing kiawe [*Prosopis pallida*] and wild tobacco [*Nicotiana* sp.] trees and an unidentified grass. The constituent features of the site [A through N], which covers an area of 220 by 350 meters [7.7 hectares], are discussed below.

Feature A

This is an activity area measuring 65 by 100 meters, consisting of a scatter of firecracked rock, midden materials and artifacts surrounding a remnant hummock that measures 1.5 by 3.0 meters. Midden remains present include the shells of a limpet [*Cellana* sp.], a thais [*Thais aperta*], two species of cowrie [*Cypraea mauritiana* and *C. reticulata*], a helmet [*Cassis* sp.] and a reticulated venus [*Antigona reticulata*], plus fragments of coral. Artifacts present include flakes and cores of basalt and basaltic glass, one basalt awl, two basalt pebble hammerstones, five basalt adze blanks, one coral file and some fragments of historic bottle glass. A firepit was observed eroding from the remnant hummock.

*Site 104 was discovered and recorded during a survey of Kaho'olawe conducted under the auspices of the U. S. Navy.

UNITED STATES DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

NATIONAL REGISTER OF HISTORIC PLACES
INVENTORY -- NOMINATION FORM

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Kaho'olawe Site 104

CONTINUATION SHEET

ITEM NUMBER

7

PAGE

2

Feature B

This is an activity area measuring 33 by 45 meters, consisting of a scatter of firecracked rock, midden materials and artifacts surrounding an eroding hummock. Midden remains present include the shells of a limpet [Cellana sp.], two species of thais [Thais aperta and T. intermedia], a nerite [Nerita picea], three species of cowrie [Cypraea mauritiana, C. reticulata and C. caputserpentis], a helmet [Cassis sp.] and two species of drupe [Drupa ricina and D. morum], plus fragments of coral. Artifacts present include flakes and cores of basalt and basaltic glass, two basalt hammerstones, two basalt adze blanks, five basalt adze blank fragments, and one basalt scraper. Five firepits were also observed eroding out of the remnant hummock.

Feature C

This is an activity area measuring 20 meters in diameter, consisting of a scatter of firecracked rock, the shells of a limpet [Cellana sp.], two species of thais [Thais aperta and T. intermedia], a cowrie [Cypraea caputserpentis] and a drupe [Drupa morum], and flakes of basalt.

Feature D

This is an activity area measuring 25 by 30 meters, consisting of a scatter of firecracked rock, midden materials and artifacts. Midden remains present include the shells of a limpet [Cellana sp.], two species of thais [Thais aperta and T. intermedia] and two species of cowrie [Cypraea mauritiana and C. reticulata], plus fragments of coral. Artifacts present include flakes and cores of basalt and basaltic glass, a basalt hammerstone, and one basalt adze blank fragment.

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Kaho'olawe Site 104

CONTINUATION SHEET

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Feature E

This is an activity area measuring 47 by 100 meters, consisting of a scatter of firecracked rock, midden materials and artifacts. Midden remains present include the shells of a limpet [Cellana sp.], a thais [Thais aperta], two species of cowrie [Cypraea mauritiana and C. reticulata], a helmet [Cassis sp.] and a drupe [Drupa morum], plus fragments of coral. Artifacts present include flakes and cores of basalt and basaltic glass, one basalt awl, one basalt pebble hammerstone, and four basalt adze blank fragments.

Feature F

This is an activity area measuring 50 by 70 meters, consisting of a scatter of firecracked rock, midden materials and artifacts. Midden remains present include the shells of a limpet [Cellana sp.], two species of thais [Thais aperta and T. intermedia], two species of cowrie [Cypraea mauritiana and C. reticulata], a drupe [Drupa morum] and an auger [Terebra sp.], plus fragments of coral. Artifacts present include flakes and cores of basalt and basaltic glass, and one basalt adze blank fragment.

Feature G

This is an activity area measuring 20 meters in diameter, consisting of a scatter of firecracked rock, midden materials and artifacts. Midden remains present include the shells of two species of thais [Thais aperta and T. intermedia] and two species of cowrie [Cypraea mauritiana and C. reticulata], plus fragments of coral. Artifacts present include flakes and cores of basalt and basaltic glass.

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Kaho'olawe Site 104

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PAGE

4

Feature H

This is an activity area measuring 30 by 50 meters, consisting of a scatter of firecracked rock, midden materials and artifacts. Midden remains present include the shells of a thais [Thais aperta], three species of cowrie [Cypraea mauritiana, C. reticulata and C. caputserpentis], a helmet [Cassia sp.], a drupe [Drupa morum] and a cone [Conus sp.], plus fragments of coral. Artifacts present include flakes and cores of basalt and basaltic glass, one basalt awl, one basalt pebble hammerstone, and three basalt adze blank fragments.

Feature I

This is an activity area measuring 11 by 22 meters, consisting of a scatter of firecracked rock, midden materials and artifacts. Midden remains present include the shells of a limpet [Cellana sp.], a thais [Thais aperta], a cowrie [Cypraea reticulata], a helmet [Cassia sp.] and a cone [Conus sp.]. Artifacts present include flakes and cores of basalt and basaltic glass.

Feature J

This is an activity area measuring 14 by 20 meters, consisting of a scatter of firecracked rock, midden materials and artifacts. Midden remains present include the shells of a limpet [Cellana sp.], a thais [Thais aperta] and two species of cowrie [Cypraea mauritiana and C. reticulata], plus fragments of coral. Artifacts present include flakes of basalt, and flakes and cores of basaltic glass.

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CONTINUATION SHEET

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Feature K

This is an activity area measuring 9 by 18 meters, consisting of a scatter of firecracked rock, two shells of a thais [Thais aperta], and flakes and cores of basaltic glass.

Feature L

This is an activity area measuring 10 meters in diameter, consisting of a scatter of firecracked rock, the shells of a thais [Thais aperta] and two species of cowrie [Cypraea mauritiana and C. reticulata], flakes of basalt, and flakes and cores of basaltic glass.

Feature M

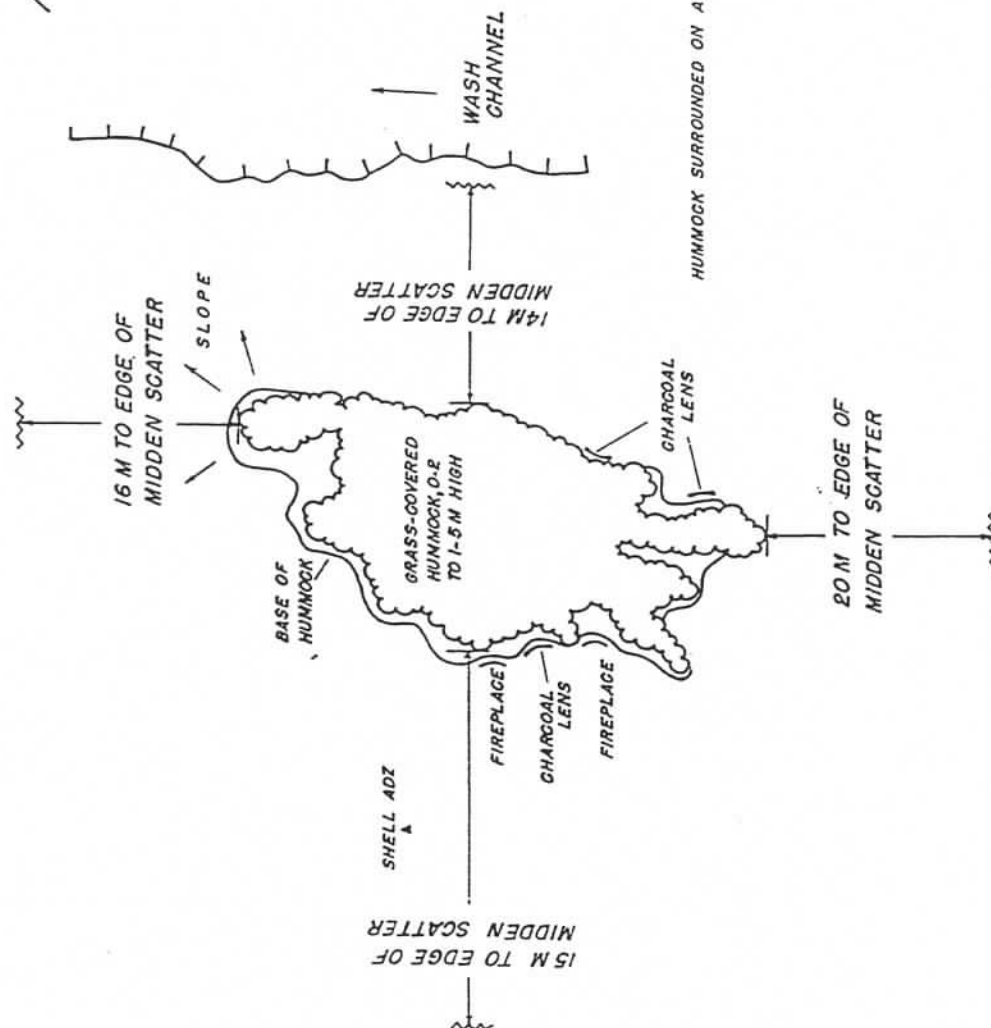
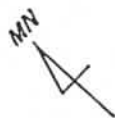
This is an activity area measuring 12 by 37 meters, consisting of a scatter of firecracked rock, midden materials and artifacts eroding from the edge of a large grassy area. Midden remains present include the shells of a limpet [Cellana sp.], a thais [Thais aperta] and a cowrie [Cypraea reticulata]. Artifacts present include flakes and cores of basalt and basaltic glass.

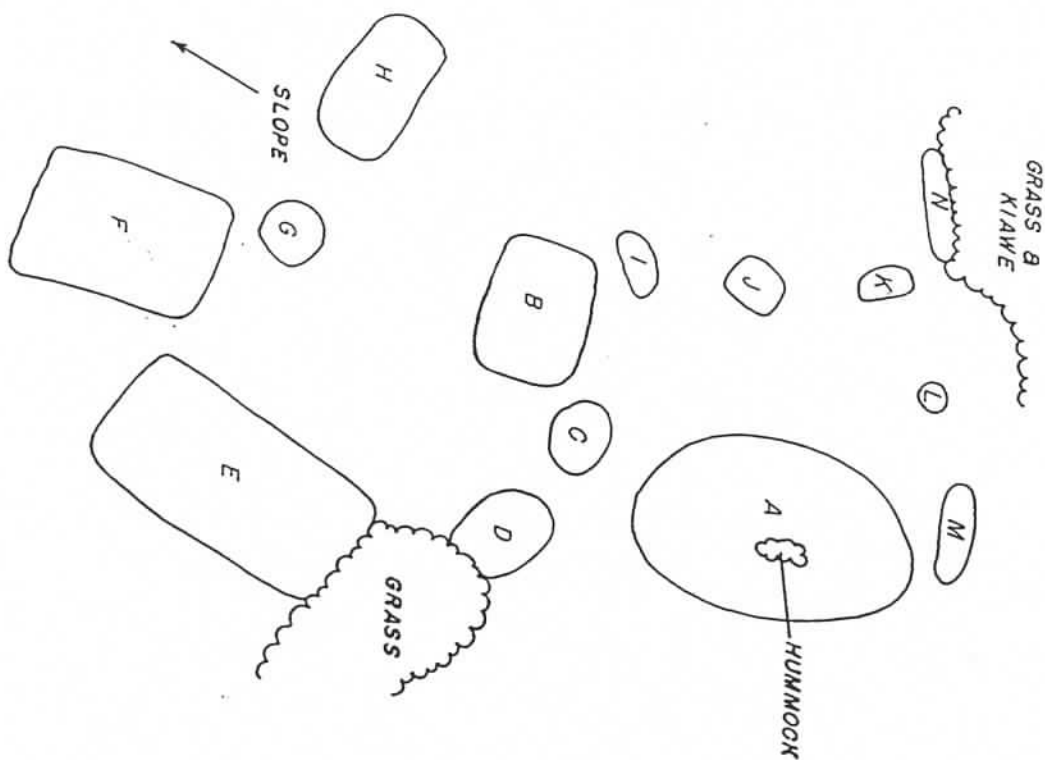
Feature N

This is an activity area measuring 9 by 38 meters, consisting of a scatter of the shells of a limpet [Cellana sp.] and a cowrie [Cypraea reticulata], fragments of coral, flakes of basalt, cores of basaltic glass, and firecracked rock.

104-6

0 1 2 3 4 METERS
SITE: 50-20-97-104B





8 SIGNIFICANCE

PERIOD		AREAS OF SIGNIFICANCE -- CHECK AND JUSTIFY BELOW			
<input checked="" type="checkbox"/> PREHISTORIC	<input type="checkbox"/> ARCHEOLOGY-PREHISTORIC	<input type="checkbox"/> COMMUNITY PLANNING	<input type="checkbox"/> LANDSCAPE ARCHITECTURE	<input type="checkbox"/> RELIGION	
<input type="checkbox"/> 1400-1499	<input type="checkbox"/> ARCHEOLOGY-HISTORIC	<input type="checkbox"/> CONSERVATION	<input type="checkbox"/> LAW	<input type="checkbox"/> SCIENCE	
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<input type="checkbox"/> 1600-1699	<input type="checkbox"/> ARCHITECTURE	<input type="checkbox"/> EDUCATION	<input type="checkbox"/> MILITARY	<input type="checkbox"/> SOCIAL/HUMANITARIAN	
<input type="checkbox"/> 1700-1799	<input type="checkbox"/> ART	<input type="checkbox"/> ENGINEERING	<input type="checkbox"/> MUSIC	<input type="checkbox"/> THEATER	
<input type="checkbox"/> 1800-1899	<input type="checkbox"/> COMMERCE	<input type="checkbox"/> EXPLORATION/SETTLEMENT	<input type="checkbox"/> PHILOSOPHY	<input type="checkbox"/> TRANSPORTATION	
<input type="checkbox"/> 1900-	<input type="checkbox"/> COMMUNICATIONS	<input type="checkbox"/> INDUSTRY	<input type="checkbox"/> POLITICS/GOVERNMENT	<input type="checkbox"/> OTHER (SPECIFY)	
		<input type="checkbox"/> INVENTION			

SPECIFIC DATES

BUILDER/ARCHITECT

STATEMENT OF SIGNIFICANCE

9 MAJOR BIBLIOGRAPHICAL REFERENCES

10 GEOGRAPHICAL DATA 19.0

ACREAGE OF NOMINATED PROPERTY _____

UTM REFERENCES

A	0,4	7	5,2	5,8,0	2	2	7,5	6,8,0
ZONE	EASTING	NORTHING						
C	0,4	7	5,2	5,6,0	2	2	7,5	4,5,0

B	0,4	7	5,2	7,8,0	2	2	7,5	6,6,0
ZONE	EASTING	NORTHING						
D	0,4	7	5,2	7,7,0	2	2	7,5	4,2,0

VERBAL BOUNDARY DESCRIPTION

The site is located on the slopes of Lua Makika, approximately 1500 meters southeast of Puu Moaula, on the east end of Kaho'olawe Island. See the enclosed contour map.

LIST ALL STATES AND COUNTIES FOR PROPERTIES OVERLAPPING STATE OR COUNTY BOUNDARIES

STATE	CODE	COUNTY	CODE
STATE	CODE	COUNTY	CODE

11 FORM PREPARED BY

NAME / TITLE

William Barrera, Jr. Archaeologist

ORGANIZATION

Hawaii Marine Research

DATE

May 4, 1979

STREET & NUMBER

45-267 Kokokahi Place

TELEPHONE

235-1861

CITY OR TOWN

Kaneohe

STATE

Hawaii 96744

12 CERTIFICATION OF NOMINATION

STATE HISTORIC PRESERVATION OFFICER RECOMMENDATION

YES _____

NO _____

NONE _____

STATE HISTORIC PRESERVATION OFFICER SIGNATURE

In compliance with Executive Order 11593, I hereby nominate this property to the National Register, certifying that the State Historic Preservation Officer has been allowed 90 days in which to present the nomination to the State Review Board and to evaluate its significance. The evaluated level of significance is _____ National _____ State _____ Local.

FEDERAL REPRESENTATIVE SIGNATURE

TITLE

DATE

FOR NPS USE ONLY

I HEREBY CERTIFY THAT THIS PROPERTY IS INCLUDED IN THE NATIONAL REGISTER

DATE

DIRECTOR, OFFICE OF ARCHEOLOGY AND HISTORIC PRESERVATION

ATTEST:

DATE

KEEPER OF THE NATIONAL REGISTER

UNITED STATES DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICENATIONAL REGISTER OF HISTORIC PLACES
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DATE ENTERED

SEE INSTRUCTIONS IN HOW TO COMPLETE NATIONAL REGISTER FORMS
TYPE ALL ENTRIES -- COMPLETE APPLICABLE SECTIONS

1 NAME

HISTORIC

AND/OR COMMON

Kaho'olawe Site 150

2 LOCATION

STREET & NUMBER

Island of Kaho'olawe 9992

CITY, TOWN

NOT FOR PUBLICATION
CONGRESSIONAL DISTRICT

STATE

Hawaii

VICINITY OF
CODE

15

COUNTY

Maui

CODE

009

3 CLASSIFICATION

CATEGORY

☐ DISTRICT
☐ BUILDING(S)
☐ STRUCTURE
☒ SITE
☐ OBJECT

OWNERSHIP

☒ PUBLIC
☐ PRIVATE
☐ BOTH
PUBLIC ACQUISITION
☐ IN PROCESS
☐ BEING CONSIDERED

STATUS

☐ OCCUPIED
☒ UNOCCUPIED
☐ WORK IN PROGRESS
ACCESSIBLE
☒ YES: RESTRICTED
☐ YES: UNRESTRICTED
☐ NO

PRESENT USE

☐ AGRICULTURE ☐ MUSEUM
☐ COMMERCIAL ☐ PARK
☐ EDUCATIONAL ☐ PRIVATE RESIDENCE
☐ ENTERTAINMENT ☐ RELIGIOUS
☐ GOVERNMENT ☐ SCIENTIFIC
☐ INDUSTRIAL ☐ TRANSPORTATION
☒ MILITARY ☐ OTHER

4 AGENCY

REGIONAL HEADQUARTERS: (If applicable)

United States of America
Department of the Navy

STREET & NUMBER

Naval Air Station, Barber's Point

CITY, TOWN

STATE

Hawaii

5 LOCATION OF LEGAL DESCRIPTION

COURTHOUSE,
REGISTRY OF DEEDS, ETC.

Pacific Division

STREET & NUMBER

Naval Facilities Engineering Command

CITY, TOWN

Pearl Harbor

STATE

Hawaii 96860

6 REPRESENTATION IN EXISTING SURVEYS

TITLE

DATE

☐ FEDERAL ☐ STATE ☐ COUNTY ☐ LOCALDEPOSITORY FOR
SURVEY RECORDS

CITY, TOWN

STATE

OSP CENTRAL FILES

150
Enclosure (2)

7c DESCRIPTION

CONDITION		CHECK ONE	CHECK ONE
<input type="checkbox"/> EXCELLENT	<input checked="" type="checkbox"/> DETERIORATED	<input checked="" type="checkbox"/> UNALTERED	<input checked="" type="checkbox"/> ORIGINAL SITE
<input type="checkbox"/> GOOD	<input type="checkbox"/> RUINS	<input type="checkbox"/> ALTERED	<input type="checkbox"/> MOVED
<input checked="" type="checkbox"/> FAIR	<input type="checkbox"/> UNEXPOSED		DATE _____

DESCRIBE THE PRESENT AND ORIGINAL (IF KNOWN) PHYSICAL APPEARANCE

Kaho'olawe Site 150* is a complex consisting of twenty-one activity areas located in the interior and on the rim of Lua Makika, a volcanic crater on the east end of Kaho'olawe Island. It includes evidence of food preparation and consumption, the use and manufacture of lithic tools, shellfish collection and the exploitation of marine resources. The permanence of residence cannot be firmly established with the evidence which is presently available, but the lack of structures and the presence of the remains of numerous firepits suggest that occupation was temporary or intermittent. A total of twenty-one basaltic glass hydration-rind dates were obtained for the site; the results are as follows:

Feature A: A.D. 1592+37	Feature H: A.D. 1578+34	Feature O: A.D. 1576+31
Feature B: A.D. 1581+32	Feature I: A.D. 1630+35	Feature P: A.D. 1615+22
Feature C: A.D. 1568+31	Feature J: A.D. 1544+27	Feature Q: A.D. 1550+29
Feature D: A.D. 1601+29	Feature K: A.D. 1647+33	Feature R: A.D. 1571+25
Feature E: A.D. 1554+33	Feature L: A.D. 1623+28	Feature S: A.D. 1570+26
Feature F: A.D. 1623+21	Feature M: A.D. 1576+31	Feature T: A.D. 1545+33
Feature G: A.D. 1537+26	Feature N: A.D. 1613+33	Feature U: A.D. 1548+28

The boundaries of the site were determined arbitrarily so as to include the rim and crater of Lua Makika, because the abundance and frequency of activity areas in this part of the island makes any attempt to discern discrete archaeological sites impossible.

The site is situated at elevations ranging between about 420 and 450 meters. Vegetation on the rim of the crater is sparse, but the interior is covered with a thick growth of kiawe [*Prosopis pallida*] trees, lantana [*Lantana* sp.] and an unidentified grass. The presence of this thick vegetation and a large pond of standing water inside the crater may have obscured the presence of additional archaeological features. The constituent features of the site [A through U], which covers an area of 650 by 800 meters [52 hectares], are discussed on the continuation sheets.

*Kaho'olawe Site 150 was discovered and recorded during a survey of Kaho'olawe conducted under the auspices of the United States Navy.

150-2

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Kaho'olawe Site 150

CONTINUATION SHEET

ITEM NUMBER

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Feature A

This is an activity area measuring 90 by 120 meters, consisting of a number of eroding hummocks and a scatter of firecracked rock. Midden remains present include the shells of a limpet [*Cellana* sp.], a thais [*Thais aperta*], three species of cowrie [*Cypraea mauritiana*, *C. reticulata* and *C. caputserpentis*], a reticulated venus [*Antigona reticulata*] and fragments of coral. Artifacts present include flakes and cores of basalt and basaltic glass, a breadloaf sinker fragment, flaked scrapers, a polished adze, a coral abrader, and adze blanks [including one possibly triangular specimen].

Feature B

This is an activity area measuring 85 by 150 meters, consisting of a number of eroding hummocks and a scatter of firecracked rock. Midden remains present include the shells of a limpet [*Cellana* sp.], a thais [*Thais aperta*], two species of cowrie [*Cypraea mauritiana* and *C. reticulata*], a cone [*Conus* sp.] and fragments of coral. Artifacts present include flakes and cores of basalt and basaltic glass, a flaked basalt awl, hammerstones, a whetstone, adze fragments and adze blanks.

Feature C

This is an activity area measuring 60 by 95 meters, consisting of a scatter of firecracked rock around a number of eroding hummocks. Midden remains present include the shells of a limpet [*Cellana* sp.], a thais [*Thais aperta*], a cowrie [*Cypraea mauritiana*], a helmet [*Cassis* sp.] and a cone [*Conus* sp.], plus fragments of coral. Artifacts present include flakes and cores of basalt and basaltic glass and adze fragments.

Feature D

This is an activity area measuring 200 by 245 meters, consisting of a number of eroding hummocks and a scatter of firecracked rock, midden and artifacts. Midden remains present include the shells of a limpet [*Cellana* sp.], a thais [*Thais aperta*], a nerite [*Nerita picea*], three species of cowrie [*Cypraea mauritiana*, *C. reticulata* and *C. caputserpentis*] and a drupe [*Drupa ricina*], plus fragments of coral. Artifacts present include flakes and cores of basalt and basaltic glass, adze blanks, a whetstone fragment and a possible flaked scraper. Three firepits were observed eroding from small clumps of grass.

150-3

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Kaho'olawe Site 150

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Feature E

This is an activity area measuring 95 by 140 meters, consisting of a scatter of midden and artifacts located on a denuded slope. Midden remains present include the shells of a thais [Thais aperta] and a cowrie [Cypraea mauritiana]. Artifacts present include flakes and cores of basalt and basaltic glass, a cowrie-shell lure, and two adze blanks.

Feature F

This is an activity area measuring 60 by 90 meters, consisting of a scatter of firecracked rock, midden and artifacts. Midden remains present include the shells of a thais [Thais aperta], two species of cowrie [Cypraea mauritiana and C. reticulata] and coral fragments. Artifacts present include flakes and cores of basalt and basaltic glass, and an adze blank apparently flaked on a basalt cobble.

Feature G

This is an activity area measuring 110 by 180 meters, consisting of a scatter of firecracked rock, midden and artifacts. Midden remains present include the shells of a limpet [Cellana sp.], a thais [Thais aperta], two species of cowrie [Cypraea mauritiana and C. reticulata], and coral fragments. Artifacts present include an adze blank and flakes and cores of basalt and basaltic glass.

Feature H

This is an activity area measuring 55 by 75 meters, consisting of a scatter of firecracked rock, midden and artifacts. Midden remains present include the shells of a limpet [Cellana sp.], a thais [Thais aperta], a cowrie [Cypraea mauritiana] and a cone [Conus sp.], plus coral fragments. Artifacts present include flakes and cores of basalt and basaltic glass, adze fragments, adze blank fragments, and a fragment of chalcedony.

150-4

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Feature I

This is an activity area measuring 30 by 90 meters, consisting of a scatter of firecracked rock, midden and artifacts, plus an in situ fireplace. The fireplace measures 0.6 by 1.0 meters and consists of a rock lining that encloses a concentration of firecracked rock, basaltic glass, charcoal and a shell of a cowrie [Cypraea reticulata]. Midden remains present on the feature include the shells of a thais [Thais aperta], two species of cowrie [Cypraea mauritiana and C. reticulata], and fragments of coral. Artifacts present include flakes and cores of basalt and basaltic glass, and basalt adze blanks.

Feature J

This is an activity area measuring 20 by 35 meters, consisting of a scatter of firecracked rock, midden and artifacts, plus two highly eroded fireplaces. The fireplaces consist only of small concentrations of firecracked rock, charcoal and associated areas of baked earth, and measure about 60 centimeters in diameter. Midden remains present include the shells of a thais [Thais aperta] and two species of cowrie [Cypraea reticulata and C. caputserpentis]. Artifacts present include flakes and cores of basalt and basaltic glass, an adze blank, and possibly a flaked basalt chopper.

Feature K

This is an activity area measuring 85 by 155 meters, consisting of a number of eroding hummocks, some with fireplaces still in situ, and a scatter of firecracked rock, midden and artifacts. Midden remains present include the shells of a limpet [Cellana sp.], a thais [Thais aperta], a cowrie [Cypraea mauritiana], a helmet [Cassis sp.] and a cone [Conus sp.], plus fragments of coral. Artifacts present include flakes and cores of basalt and basaltic glass.

Numerous large areas of soil are being held in place by a grass cover, and concentrations of firecracked rock and charcoal, representing fireplaces, were observed in several places. Most of the cultural materials appear to be eroding from a depth of about 10 centimeters below the surface, and at least one grass clump contains the Ahupu Soil in position above the Kaho'olawe Soil, and separated from it by a layer of charcoal.

150-5

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Feature L

This is an activity area measuring 52 by 70 meters, consisting of a number of eroding hummocks and a scatter of firecracked rock, midden and artifacts. A fireplace measuring 0.6 by 1.1 meters is located in a grassy clump, and consists of a concentration of firecracked rock and charcoal. A number of large basalt rocks are also present, and probably formed a lining for the feature. Midden remains present at Feature L include the shells of a thais [Thais aperta], two species of cowrie [Cypraea mauritiana and Cypraea sp.] and a helmet [Cassia sp.]. Artifacts present include flakes and cores of basalt and basaltic glass and a cowrie-shell lure.

Feature M

This is an activity area measuring 7 by 15 meters, consisting of a scatter of firecracked rock, midden and artifacts. Midden remains present include the shells of a limpet [Cellana sp.], a thais [Thais aperta], a cowrie [Cypraea mauritiana] and a helmet [Cassia sp.], plus fragments of coral. Artifacts present include flakes and cores of basaltic glass and cores of basalt.

Feature N

This is an activity area measuring 24 by 55 meters, consisting of a scatter of firecracked rock, midden and artifacts. Midden remains present include the shells of a thais [Thais aperta], a cowrie [Cypraea reticulata], a helmet [Cassia sp.] and a drupe [Drupa ricina], plus fragments of coral. Artifacts present include flakes and cores of basalt and basaltic glass, and a flaked awl of basalt.

Feature O

This is an activity area measuring 40 by 80 meters, consisting of a scatter of midden and artifacts, most of which are eroding from probable in situ deposits. Midden remains include the shells of a limpet [Cellana sp.], a thais [Thais aperta], a nerite [Nerita picea], three species of cowrie [Cypraea mauritiana, C. reticulata and C. caputserpentis], a helmet [Cassia sp.] and a cone [Conus sp.], plus fragments of coral. Artifacts present include flakes and cores of basaltic glass and flakes of basalt.

9-051

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Feature P

This is an activity area measuring 50 by 120 meters, consisting of a thin scatter of firecracked rock, midden and artifacts. Midden present includes the shells of a limpet [Cellana sp.], a thais [Thais aperta], two species of cowrie [Cypraea reticulata and C. caputserpentis] and an auger [Terebra sp.], plus fragments of coral. Artifacts present include flakes and cores of basalt and basaltic glass, adze blanks, and a fragment of a stone lamp or mortar.

Feature Q

This is an activity area measuring 50 by 75 meters, consisting of a scatter of firecracked rock, midden and artifacts. There is the possibility that in situ deposits are present. Midden remains consist only of the shells of a thais [Thais aperta], and artifactual remains are represented only by flakes and cores of basaltic glass.

Feature R

This is an activity area measuring 60 by 65 meters, consisting of a scatter of midden and artifacts. Midden remains present include the shells of a limpet [Cellana sp.], a thais [Thais aperta] and a cowrie [Cypraea reticulata]. Artifacts present include flakes of basalt, flakes and cores of basaltic glass, a hammerstone, adze blanks, and a fragment of chalcedony.

Feature S

This is an activity area measuring 27 by 50 meters, consisting of a scatter of firecracked rock, midden and artifacts. Midden remains present include the shells of a thais [Thais aperta] and a cowrie [Cypraea mauritiana]. Artifacts present include cores of basaltic glass, flakes of basalt, and an adze blank.

150-7

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Kaho'olawe Site 150

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Feature T

This is an activity area measuring 45 by 55 meters, consisting of a scatter of midden and artifacts. Midden remains present include the shells of a limpet [Cellana sp.], a thais [Thais aperta] and a cowrie [Cypraea mauritiana]. Artifacts present include flakes and cores of basaltic glass, flakes of basalt, and a flaked basalt awl.

Feature U

This is an activity area measuring 40 by 105 meters, consisting of a scatter of firecracked rock, midden and artifacts. Midden remains present include the shells of a limpet [Cellana sp.], a thais [Thais aperta] and a cowrie [Cypraea mauritiana]. Artifacts present include flakes and cores of basaltic glass and flakes of basalt.

150-8

8 SIGNIFICANCE

PERIOD		AREAS OF SIGNIFICANCE -- CHECK AND JUSTIFY BELOW			
<input checked="" type="checkbox"/> PREHISTORIC	<input checked="" type="checkbox"/> ARCHEOLOGY-PREHISTORIC	<input type="checkbox"/> COMMUNITY PLANNING	<input type="checkbox"/> LANDSCAPE ARCHITECTURE	<input type="checkbox"/> RELIGION	
<input type="checkbox"/> 1400-1499	<input type="checkbox"/> ARCHEOLOGY-HISTORIC	<input type="checkbox"/> CONSERVATION	<input type="checkbox"/> LAW	<input type="checkbox"/> SCIENCE	
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<input type="checkbox"/> 1700-1799	<input type="checkbox"/> ART	<input type="checkbox"/> ENGINEERING	<input type="checkbox"/> MUSIC	<input type="checkbox"/> THEATER	
<input type="checkbox"/> 1800-1899	<input type="checkbox"/> COMMERCE	<input type="checkbox"/> EXPLORATION/SETTLEMENT	<input type="checkbox"/> PHILOSOPHY	<input type="checkbox"/> TRANSPORTATION	
<input type="checkbox"/> 1900-	<input type="checkbox"/> COMMUNICATIONS	<input type="checkbox"/> INDUSTRY	<input type="checkbox"/> POLITICS/GOVERNMENT	<input checked="" type="checkbox"/> OTHER (SPECIFY)	
		<input type="checkbox"/> INVENTION			

Settlement Pattern, Land Use, Palaeo-environment, Lithic Technology

SPECIFIC DATES

BUILDER/ARCHITECT

STATEMENT OF SIGNIFICANCE

Kaho'olawe Site 150 is an excellent example of the clusters of prehistoric activity areas found on the exposed upland plain of Kaho'olawe Island. The features composing the site complex provide clear evidence of the significant prehistoric use of the uplands of the island, and the range of materials present testifies to the variety of specialized activities taking place in this area. Many of the recorded features are appropriate for several kinds of particular archaeological analysis, as for example, functional and technological lithic studies related to the flaked basalt and basaltic glass, determination of the duration and continuity of site utilization relating in part to the presence of firecracked rock and firepits as well as midden remains, and so on. The fact that a number of the features retain at least a part of an intact cultural deposit and thus have excavation potential gives added importance to much of the site. Chronological data from the primary deposits, taken in conjunction with environmental data in the form of pollen, charcoal and geological data, will provide researchers with invaluable information concerning the prehistoric climatic situation.

The data potential of the site is probably most specifically relevant to research problems concerned with the nature of settlement and land use patterns during what appears to be a period of continuing expansion into new areas of the island interior.

150-9

9 MAJOR BIBLIOGRAPHICAL REFERENCES

10 GEOGRAPHICAL DATA

ACREAGE OF NOMINATED PROPERTY 128

UTM REFERENCES

A	0,4	7,5,3	2,3,0	2,2	7,6	1,0,0
	ZONE	EASTING			NORTHING	
B	0,4	7,5,3	4,3,0	2,2	7,5	7,2,0
	ZONE	EASTING			NORTHING	
C	0,4	7,5,3	1,9,0	2,2	7,5	3,0,0
	ZONE	EASTING			NORTHING	
D	0,4	7,5,2	9,9,0	2,2	7,5	3,2,0
	ZONE	EASTING			NORTHING	

VERBAL BOUNDARY DESCRIPTION

Site 150 is located in the interior and on the rim of Lua Makika.

LIST ALL STATES AND COUNTIES FOR PROPERTIES OVERLAPPING STATE OR COUNTY BOUNDARIES

STATE	CODE	COUNTY	CODE
-------	------	--------	------

STATE	CODE	COUNTY	CODE
-------	------	--------	------

11 FORM PREPARED BY

NAME / TITLE

William Barrera, Jr. Archaeologist

ORGANIZATION

Hawaii Marine Research

DATE

July 5, 1979

STREET & NUMBER

45-267 Kokokahi Place

TELEPHONE

235-1861

CITY OR TOWN

Kaneohe

STATE

Hawaii 96744

12 CERTIFICATION OF NOMINATION

STATE HISTORIC PRESERVATION OFFICER RECOMMENDATION

YES

NO

NONE

STATE HISTORIC PRESERVATION OFFICER SIGNATURE

In compliance with Executive Order 11593, I hereby nominate this property to the National Register, certifying that the State Historic Preservation Officer has been allowed 90 days in which to present the nomination to the State Review Board and to evaluate its significance. The evaluated level of significance is _____ National _____ State _____ Local

FEDERAL REPRESENTATIVE SIGNATURE

TITLE

DATE

FOR NPS USE ONLY

I HEREBY CERTIFY THAT THIS PROPERTY IS INCLUDED IN THE NATIONAL REGISTER

DATE

DIRECTOR, OFFICE OF ARCHEOLOGY AND HISTORIC PRESERVATION
ATTEST:

DATE

KEEPER OF THE NATIONAL REGISTER

150-10

UNITED STATES DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

NATIONAL REGISTER OF HISTORIC PLACES
INVENTORY -- NOMINATION FORM

FOR NPS USE ONLY

RECEIVED

DATE ENTERED

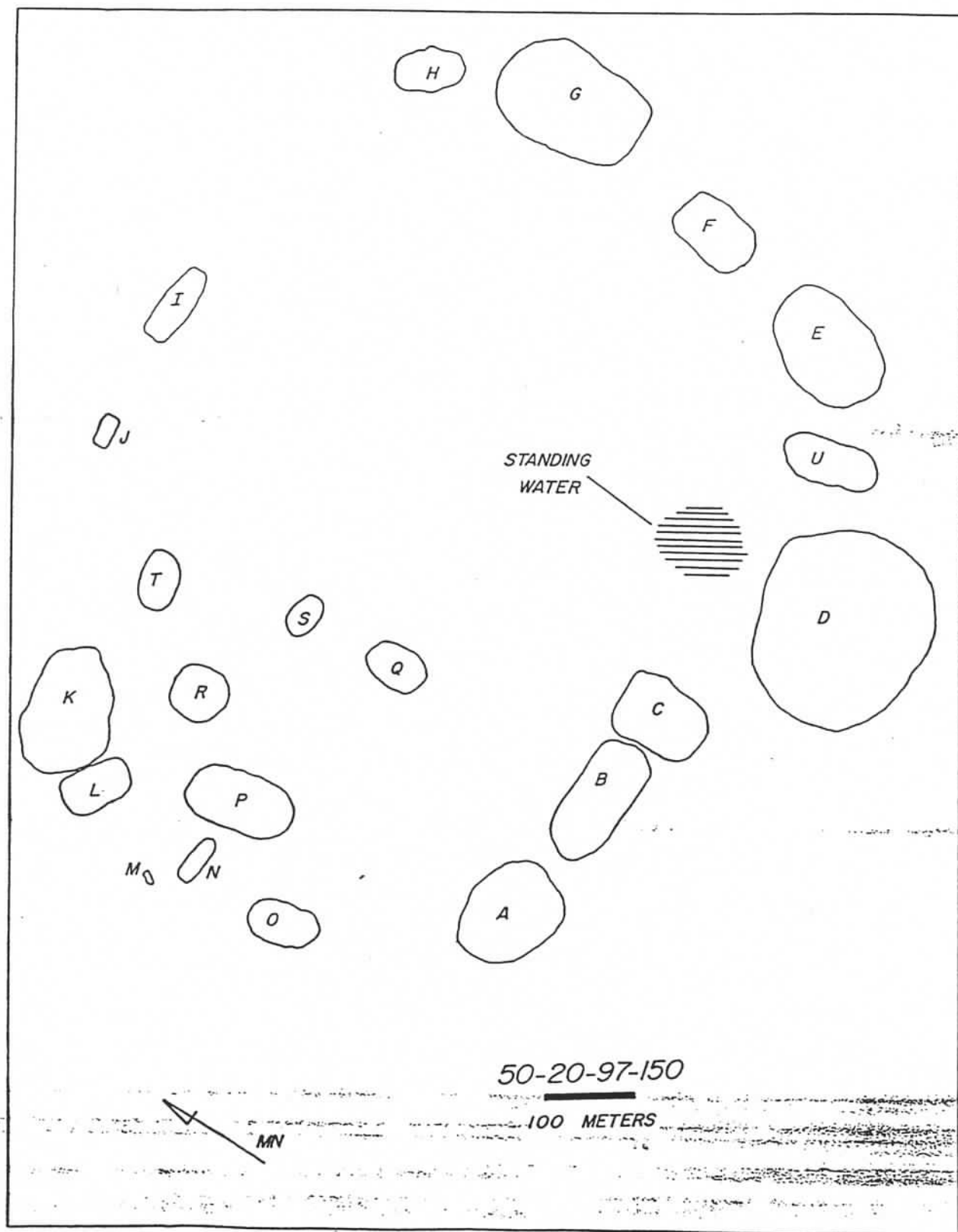
Kaho'olawe Site 150

CONTINUATION SHEET

ITEM NUMBER 10 PAGE 1

E	04-752980E	2275400N
F	04-752800E	2275400N
G	04-752700E	2276080N

150-4



150-12

GCP CENTRAL FILES

UNITED STATES DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICENATIONAL REGISTER OF HISTORIC PLACES
INVENTORY -- NOMINATION FORM

FOR FEDERAL PROPERTIES

FOR NPS USE ONLY

RECEIVED

DATE ENTERED

SEE INSTRUCTIONS IN HOW TO COMPLETE NATIONAL REGISTER FORMS
TYPE ALL ENTRIES -- COMPLETE APPLICABLE SECTIONS**1 NAME**

HISTORIC

AND/OR COMMON

Kaho'olawe Site 400

2 LOCATION

STREET & NUMBER

Island of Kaho'olawe 9992

CITY, TOWN

NOT FOR PUBLICATION

CONGRESSIONAL DISTRICT

VICINITY OF

STATE

Hawaii

CODE

15

COUNTY

Maui

CODE

009

3 CLASSIFICATION

CATEGORY

☐ DISTRICT
☐ BUILDING(S)
☐ STRUCTURE
☒ SITE
☐ OBJECT

OWNERSHIP

☒ PUBLIC
☐ PRIVATE
☐ BOTH

PUBLIC ACQUISITION

☐ IN PROCESS
☐ BEING CONSIDERED

STATUS

☐ OCCUPIED
☒ UNOCCUPIED
☐ WORK IN PROGRESS

ACCESSIBLE

☒ YES: RESTRICTED
☐ YES: UNRESTRICTED
☐ NO

PRESENT USE

☐ AGRICULTURE
☐ COMMERCIAL
☐ EDUCATIONAL
☐ ENTERTAINMENT
☐ GOVERNMENT
☐ INDUSTRIAL
☒ MILITARY
☐ MUSEUM
☐ PARK
☐ PRIVATE RESIDENCE
☐ RELIGIOUS
☐ SCIENTIFIC
☐ TRANSPORTATION
☐ OTHER**4 AGENCY**REGIONAL HEADQUARTERS: (If applicable) United States of America
Department of the Navy

STREET & NUMBER

CITY, TOWN

Naval Air Station, Barber's Point

STATE

Hawaii

VICINITY OF

5 LOCATION OF LEGAL DESCRIPTIONCOURTHOUSE,
REGISTRY OF DEEDS, ETC.

Pacific Division

STREET & NUMBER

Naval Facilities Engineering Command

CITY, TOWN

Pearl Harbor

STATE

Hawaii 96860

6 REPRESENTATION IN EXISTING SURVEYS

TITLE

DATE

☐ FEDERAL ☐ STATE ☐ COUNTY ☐ LOCALDEPOSITORY FOR
SURVEY RECORDS

CITY, TOWN

STATE

GCP CENTRAL FILES

400-1
Enclosure (3)

7 DESCRIPTION

CONDITION		CHECK ONE	CHECK ONE
<input checked="" type="checkbox"/> EXCELLENT	<input checked="" type="checkbox"/> DETERIORATED	<input checked="" type="checkbox"/> UNALTERED	<input checked="" type="checkbox"/> ORIGINAL SITE
<input type="checkbox"/> GOOD	<input type="checkbox"/> RUINS	<input type="checkbox"/> ALTERED	<input type="checkbox"/> MOVED
<input type="checkbox"/> FAIR	<input type="checkbox"/> UNEXPOSED		DATE _____

DESCRIBE THE PRESENT AND ORIGINAL (IF KNOWN) PHYSICAL APPEARANCE

Kaho'olawe Site 400* is a complex consisting of five activity areas located on the slope of Lua Makika on the eastern end of Kaho'olawe Island. It includes evidence of food preparation and consumption, shellfish collection, and the manufacture and use of lithic tools. The permanence of residence cannot be firmly established with the evidence which is presently available, but the lack of habitation structures suggests that occupation was temporary or intermittent. Two basaltic glass hydration-rind dates were obtained for the site, one from Feature A [A.D. 1606±23] and one from Feature D [A.D. 1525±27]. The boundaries were established arbitrarily, because the density of activity areas in this part of the island makes it impossible to discern discrete archaeological site boundaries.

The site is situated at an elevation of approximately 435 meters in a denuded area interspersed with eroding hummocks in which kiawe [Prosopis pallida] trees and an unidentified grass are growing. The constituent features of the site [A through E], which covers an area of 130 by 265 meters [3.5 hectares], are discussed below.

Feature A

This is an activity area measuring 45 by 52 meters, consisting of a scatter of firecracked rock, midden materials and artifacts situated adjacent to an eroding hummock in which in situ cultural materials are visible. Midden remains present include the shells of a limpet [Cellana sp.], a thais [Thais aperta], three species of cowrie [Cypraea mauritiana, C. reticulata and C. caputserpentis] and a helmet [Cassis sp.], plus fragments of coral. Artifacts present include flakes and cores of basalt and basaltic glass, six basalt hammerstones, one basalt adze blank and one basalt adze blank fragment. The firepit consists of a concentration of firecracked rock measuring 0.8 by 1.0 meter, situated on the open ground surface on the northeast side of the hummock.

*Site 400 was discovered and recorded during a survey of Kaho'olawe conducted under the auspices of the U. S. Navy.

UNITED STATES DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

FOR NPS USE ONLY

RECEIVED

DATE ENTERED

NATIONAL REGISTER OF HISTORIC PLACES
INVENTORY -- NOMINATION FORM

Kaho'olawe Site 400

CONTINUATION SHEET

ITEM NUMBER 7 PAGE 2

Feature B

This is an activity area measuring 42 by 80 meters, consisting of a scatter of firecracked rock, midden materials and artifacts located adjacent to an eroding hummock. Midden remains present include the shells of a thias [Thais aperta], a cowrie [Cypraea reticulata] and a helmet [Cassis sp.], plus fragments of coral. Artifacts present include flakes and cores of basalt and basaltic glass, a basalt hammerstone, a basalt scraper, one basalt adze blank and three basalt adze blank fragments.

Feature C

This is an activity area measuring 20 by 40 meters, consisting of a scatter of firecracked rock, midden materials and artifacts. Midden remains present include the shells of a limpet [Cellana sp.], a thais [Thais aperta] and a cowrie [Cypraea isabella]. Artifacts present include flakes and cores of basalt and basaltic glass, a basalt adze blank and a basalt adze blank fragment.

Feature D

This is an activity area measuring 40 by 75 meters, consisting of a scatter of firecracked rock, midden materials and artifacts situated adjacent to an eroding hummock. Midden remains present include the shells of a limpet [Cellana sp.] and a thais [Thais aperta]. Artifacts present include flakes and cores of basalt and basaltic glass, one basalt hammerstone and one basalt adze blank.

Feature E

This is an activity area measuring 3 by 6 meters, consisting of a scatter of firecracked rock and flakes and cores of basaltic glass, situated adjacent to an eroding hummock.

400-3

8 SIGNIFICANCE

PERIOD		AREAS OF SIGNIFICANCE -- CHECK AND JUSTIFY BELOW			
<input checked="" type="checkbox"/> PREHISTORIC	<input checked="" type="checkbox"/> ARCHEOLOGY-PREHISTORIC	<input type="checkbox"/> COMMUNITY PLANNING	<input type="checkbox"/> LANDSCAPE ARCHITECTURE	<input type="checkbox"/> RELIGION	
<input type="checkbox"/> 1400-1499	<input type="checkbox"/> ARCHEOLOGY-HISTORIC	<input type="checkbox"/> CONSERVATION	<input type="checkbox"/> LAW	<input type="checkbox"/> SCIENCE	
<input checked="" type="checkbox"/> 1500-1599	<input type="checkbox"/> AGRICULTURE	<input type="checkbox"/> ECONOMICS	<input type="checkbox"/> LITERATURE	<input type="checkbox"/> SCULPTURE	
<input checked="" type="checkbox"/> 1600-1699	<input type="checkbox"/> ARCHITECTURE	<input type="checkbox"/> EDUCATION	<input type="checkbox"/> MILITARY	<input type="checkbox"/> SOCIAL/HUMANITARIAN	
<input type="checkbox"/> 1700-1799	<input type="checkbox"/> ART	<input type="checkbox"/> ENGINEERING	<input type="checkbox"/> MUSIC	<input type="checkbox"/> THEATER	
<input type="checkbox"/> 1800-1899	<input type="checkbox"/> COMMERCE	<input type="checkbox"/> EXPLORATION/SETTLEMENT	<input type="checkbox"/> PHILOSOPHY	<input type="checkbox"/> TRANSPORTATION	
<input type="checkbox"/> 1900	<input type="checkbox"/> COMMUNICATIONS	<input type="checkbox"/> INDUSTRY	<input type="checkbox"/> POLITICS/GOVERNMENT	<input checked="" type="checkbox"/> OTHER (SPECIFY)	
		<input type="checkbox"/> INVENTION			

Settlement Pattern, Land Use, Palaeo-environment

SPECIFIC DATES

BUILDER/ARCHITECT

STATEMENT OF SIGNIFICANCE

Kaho'olawe Site 400 is typical of the many clusters of activity areas found in the interior of the east end of Kaho'olawe Island. It derives its primary significance from the fact that it represents one manifestation of a widespread and intensive utilization of the island interior. Chronological data derived from this site, taken in conjunction with environmental data that should be reflected in pollen, charcoal and geological data from both this and other sites will provide valuable information concerning the overall pattern of land use and settlement during the middle and late periods of intensive inland exploitation.

400-4

9 MAJOR BIBLIOGRAPHICAL REFERENCES

10 GEOGRAPHICAL DATA

8.5

ACREAGE OF NOMINATED PROPERTY

UTM REFERENCES

A

0	4
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7	5	2	9	8	0
---	---	---	---	---	---

2	2	7	6	2	2	0
---	---	---	---	---	---	---

ZONE EASTING NORTHING

B

--	--

--	--	--	--	--	--

--	--	--	--	--	--

ZONE EASTING NORTHING

VERBAL BOUNDARY DESCRIPTION

The site is located on the slope of Lūā Makika, approximately 1600 meters east of Puu Moaula, on the east end of Kaho'olawe Island. See the enclosed contour map.

LIST ALL STATES AND COUNTIES FOR PROPERTIES OVERLAPPING STATE OR COUNTY BOUNDARIES

STATE	CODE	COUNTY	CODE
STATE	CODE	COUNTY	CODE

11 FORM PREPARED BY

NAME / TITLE

William Barrera, Jr. Archaeologist

ORGANIZATION

Hawaii Marine Research

DATE

May 5, 1979

STREET & NUMBER

45-267 Kokokahi Place

TELEPHONE

235-1861

CITY OR TOWN

Kaneohe

STATE

Hawaii 96744

12 CERTIFICATION OF NOMINATION

STATE HISTORIC PRESERVATION OFFICER RECOMMENDATION

YES

NO

NONE

STATE HISTORIC PRESERVATION OFFICER SIGNATURE

In compliance with Executive Order 11593, I hereby nominate this property to the National Register, certifying that the State Historic Preservation Officer has been allowed 90 days in which to present the nomination to the State Review Board and to evaluate its significance. The evaluated level of significance is National State Local.

FEDERAL REPRESENTATIVE SIGNATURE

TITLE

DATE

FOR NPS USE ONLY

I HEREBY CERTIFY THAT THIS PROPERTY IS INCLUDED IN THE NATIONAL REGISTER

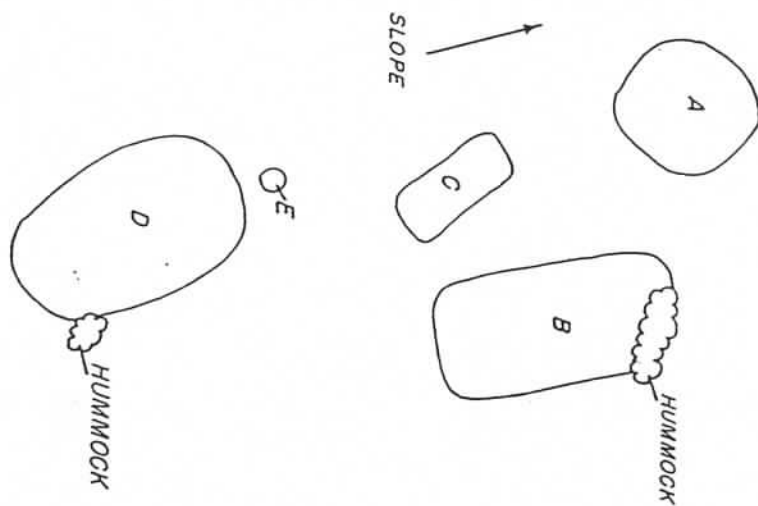
DATE

DIRECTOR, OFFICE OF ARCHEOLOGY AND HISTORIC PRESERVATION

ATTEST:

DATE

KEEPER OF THE NATIONAL REGISTER



MN

0 50

METERS

SITE: 50-20-97-400

400-6

UNITED STATES DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICENATIONAL REGISTER OF HISTORIC PLACES
INVENTORY -- NOMINATION FORM

FOR FEDERAL PROPERTIES

FOR NPS USE ONLY

RECEIVED

DATE ENTERED

SEE INSTRUCTIONS IN HOW TO COMPLETE NATIONAL REGISTER FORMS
TYPE ALL ENTRIES -- COMPLETE APPLICABLE SECTIONS**1** NAME

HISTORIC

AND/OR COMMON

Kaho'olawe Site 401

2 LOCATION

STREET & NUMBER

Island of Kaho'olawe 9992

CITY, TOWN

NOT FOR PUBLICATION

CONGRESSIONAL DISTRICT

STATE

Hawaii

VICINITY OF
CODE

15

COUNTY

Maui

CODE

009

3 CLASSIFICATION

CATEGORY

☐ DISTRICT
☐ BUILDING(S)
☐ STRUCTURE
☒ SITE
☐ OBJECT

OWNERSHIP

☒ PUBLIC
☐ PRIVATE
☐ BOTH
PUBLIC ACQUISITION
☐ IN PROCESS
☐ BEING CONSIDERED

STATUS

☐ OCCUPIED
☒ UNOCCUPIED
☐ WORK IN PROGRESS
ACCESSIBLE
☒ YES: RESTRICTED
☐ YES: UNRESTRICTED
☐ NO

PRESENT USE

☐ AGRICULTURE ☐ MUSEUM
☐ COMMERCIAL ☐ PARK
☐ EDUCATIONAL ☐ PRIVATE RESIDENCE
☐ ENTERTAINMENT ☐ RELIGIOUS
☐ GOVERNMENT ☐ SCIENTIFIC
☐ INDUSTRIAL ☐ TRANSPORTATION
☒ MILITARY ☐ OTHER:

4 AGENCY

REGIONAL HEADQUARTERS: (If applicable)

United States of America
Department of the Navy

STREET & NUMBER

Naval Air Station, Barber's Point

CITY, TOWN

STATE

Hawaii

5 LOCATION OF LEGAL DESCRIPTION

COURTHOUSE

REGISTRY OF DEEDS, ETC

Pacific Division

STREET & NUMBER

Naval Facilities Engineering Command

CITY, TOWN

STATE

Pearl Harbor

Hawaii 96860

6 REPRESENTATION IN EXISTING SURVEYS

TITLE

DATE

☐ FEDERAL ☐ STATE ☐ COUNTY ☐ LOCAL

DEPOSITORY FOR
SURVEY RECORDS

CITY, TOWN

STATE

OSP CENTRAL FILES

401-1
Enclosure (4)

401-2

7 DESCRIPTION

<input checked="" type="checkbox"/> EXCELLENT	CONDITION <input checked="" type="checkbox"/> DETERIORATED	CHECK ONE <input checked="" type="checkbox"/> UNALTERED	CHECK ONE <input checked="" type="checkbox"/> ORIGINAL SITE
<input type="checkbox"/> GOOD	<input type="checkbox"/> RUINS	<input type="checkbox"/> ALTERED	<input type="checkbox"/> MOVED
<input type="checkbox"/> FAIR	<input type="checkbox"/> UNEXPOSED		DATE _____

DESCRIBE THE PRESENT AND ORIGINAL (IF KNOWN) PHYSICAL APPEARANCE

Kaho'olawe Site 401* is a complex consisting of 13 activity areas and one basaltic glass concentration located on the slope of Lua Makika on the east end of Kaho'olawe Island. It includes evidence of food preparation and consumption, shellfish collection, and the manufacture and use of lithic artifacts. The permanence of residence cannot be firmly established with the evidence which is presently available, but the lack of habitation structures suggests that occupation was temporary or intermittent. Two basaltic glass hydration-rind dates were obtained for the site, one from Feature A [A.D. 1632±28] and one from Feature H [A.D. 1590±32]. The boundaries were determined arbitrarily, because the density of activity areas in this part of the island makes it impossible to discern discrete archaeological site boundaries.

The site is situated at an elevation of approximately 435 meters, in a denuded area interspersed with eroding hummocks on which kiawe [Prosopis pallida] trees, wild tobacco [Nicotiana sp.] and an unidentified grass are growing. The constituent features of the site [A through N], which covers an area of 420 by 920 meters [38.6 hectares], are discussed below.

Feature A

This is an activity area measuring 40 by 65 meters, consisting of a scatter of firecracked rock, midden materials and artifacts. Midden remains present include the shells of a limpet [Cellana sp.], a thais [Thais aperta], two species of cowrie [Cypraea mauritiana and C. reticulata] and a helmet [Cassis sp.]. Artifacts present include flakes of basalt, flakes and cores of basaltic glass, and one basalt awl.

Feature B

This is an activity area measuring 35 by 45 meters, consisting of a scatter of firecracked rock, midden materials and artifacts located adjacent to an eroding hummock. Midden remains present include the shells of a limpet [Cellana sp.], a thais [Thais aperta], a cowrie [Cypraea reticulata], a helmet [Cassis sp.] and a drupe [Drupa morum], plus fragments of coral. Artifacts present include cores of basaltic glass, flakes and cores of basalt, a basalt adze blank, two basalt adze blank fragments and a basalt scraper.

*Site 401 was discovered and recorded during a survey of Kaho'olawe conducted under the auspices of the U. S. Navy.

401-2

UNITED STATES DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

NATIONAL REGISTER OF HISTORIC PLACES
INVENTORY -- NOMINATION FORM

401-3
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DATE ENTERED

Kaho'olawe Site 401

CONTINUATION SHEET

ITEM NUMBER

7

PAGE

3

Feature F

This is an activity area measuring 48 by 75 meters, consisting of a scatter of firecracked rock, midden materials and artifacts. Midden remains present include the shells of a limpet [*Cellana* sp.], two species of thais [*Thais aperta* and *T. intermedia*], two species of cowrie [*Cypraea mauritiana* and *C. reticulata*] and a drupe [*Drupa morum*], plus fragments of coral. Artifacts present include flakes and cores of basalt and basaltic glass, one basalt awl that appears to have been fashioned from an adze blank, two basalt hammerstones and two basalt adze blank fragments.

Feature G

This is an activity area measuring 50 by 68 meters, consisting of a scatter of firecracked rock, midden materials and artifacts. Midden remains present include the shells of a limpet [*Cellana* sp.], a thais [*Thais aperta*], two species of cowrie [*Cypraea mauritiana* and *C. reticulata*] and a drupe [*Drupa morum*], plus fragments of coral. Artifacts present include flakes and cores of basalt and basaltic glass, one basalt awl, two basalt adze blanks, one basalt adze blank fragment, and one basalt scraper.

Feature H

This is an activity area measuring 45 by 70 meters, consisting of a scatter of firecracked rock, midden materials and artifacts. Midden remains present include the shells of a thais [*Thais aperta*], three species of cowrie [*Cypraea mauritiana*, *C. reticulata* and *C. caputserpentis*], a drupe [*Drupa morum*] and *Cymatium* sp. Artifacts present include flakes and cores of basalt and basaltic glass, and one basalt adze blank.

401-3

UNITED STATES DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

NATIONAL REGISTER OF HISTORIC PLACES
INVENTORY -- NOMINATION FORM

FOR NPS USE ONLY

RECEIVED

DATE ENTERED

Kaho'olawe Site 401

CONTINUATION SHEET

ITEM NUMBER

7

PAGE

2

Feature C

This is an activity area measuring 120 by 150 meters, consisting of a scatter of firecracked rock, midden materials and artifacts located adjacent to a number of eroding hummocks in which ten firepits were observed, along with other in situ deposits. Midden remains present include the shells of a limpet [Cellana sp.], a thais [Thais aperta], a nerite [Nerita picea], three species of cowrie [Cypraea mauritiana, C. reticulata and C. caputserpentis], a helmet [Cassis sp.], a drupe [Drupa morum] and a cone [Conus sp.], plus fragments of coral. Artifacts present include flakes and cores of basalt and basaltic glass, three basalt awls, six basalt hammerstones, one basalt adze fragment, four basalt adze blanks, and three basalt adze blank fragments.

Feature D

This is an activity area measuring 23 by 72 meters, consisting of a scatter of firecracked rock, midden materials and artifacts located adjacent to an eroding hummock. Midden remains present include the shells of a limpet [Cellana sp.], a thais [Thais aperta] and two species of cowrie [Cypraea mauritiana and C. reticulata], plus fragments of charcoal. Artifacts present include flakes and cores of basalt and basaltic glass, one basalt awl fragment and one basalt adze blank. Midden materials were observed in situ in the face of the eroding hummock, including a firepit.

Feature E

This is an activity area measuring 35 by 48 meters, consisting of a scatter of firecracked rock, midden materials and artifacts. Midden remains present include the shells of a limpet [Cellana sp.], two species of thais [Thais aperta and T. intermedia] and three species of cowrie [Cypraea mauritiana, C. reticulata and C. caputserpentis]. Artifacts present include flakes and cores of basalt and basaltic glass, one basalt adze blank and two basalt adze blank fragments.

401-4

UNITED STATES DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

NATIONAL REGISTER OF HISTORIC PLACES
INVENTORY -- NOMINATION FORM

401-5
FOR NPS USE ONLY

RECEIVED

DATE ENTERED

Kaho'olawe Site 401

CONTINUATION SHEET

ITEM NUMBER

7

PAGE

5

Feature M

This is an activity area measuring 32 by 45 meters, consisting of a scatter of firecracked rock, midden materials and artifacts located adjacent to an eroding hummock. Midden remains present include the shells of a cowrie [*Cypraea reticulata*] and a drupe [*Drupa ricina*], plus fragments of charcoal and coral. Artifacts present include flakes and cores of basalt and one possible basalt scraper.

Feature N

This is an activity area measuring 50 by 165 meters, consisting of a scatter of firecracked rock, midden materials and artifacts associated with an eroding hummock in which in situ deposits [including one firepit] were observed. Midden remains present include the shells of a limpet [*Cellana* sp.], a thais [*Thais aperta*], a cowrie [*Cypraea reticulata*], a helmet [*Cassis* sp.] and a cone [*Conus* sp.], plus fragments of coral. Artifacts present include flakes and cores of basalt and basaltic glass, a possible basalt hammerstone, four basalt adze blanks and two basalt adze blank fragments.

401-5

UNITED STATES DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

NATIONAL REGISTER OF HISTORIC PLACES
INVENTORY -- NOMINATION FORM

FOR NPS USE ONLY

RECEIVED

DATE ENTERED

Kaho'olawe Site 401

CONTINUATION SHEET

ITEM NUMBER

7

PAGE

4

Feature I

This is an activity area measuring 65 by 80 meters, consisting of a scatter of firecracked rock, midden materials and artifacts. Midden remains present include the shells of two species of thais [Thais aperta and T. intermedia] and two species of cowrie [Cypraea mauritiana and C. reticulata], plus fragments of coral. Artifacts present include flakes and cores of basalt and basaltic glass, a basalt awl fragment, a basalt hammerstone, five basalt adze blank fragments, two basalt adze blanks, and one basalt scraper.

Feature J

This is a thick concentration of basaltic glass cores and flakes measuring 3 meters in diameter.

Feature K

This is an activity area measuring 42 by 50 meters, consisting of a scatter of firecracked rock, midden materials and artifacts. Midden remains present include the shells of a thais [Thais aperta] and two species of cowrie [Cypraea mauritiana and C. reticulata], plus fragments of coral. Artifacts present include flakes and cores of basalt and basaltic glass, one basalt awl, one basalt hammerstone, one basalt scraper, one basalt adze blank and one fragment of a basalt adze.

Feature L

This is an activity area measuring 20 by 40 meters, consisting of a scatter of firecracked rock, midden materials and artifacts situated adjacent to an eroding hummock. Midden remains present include the shells of a limpet [Cellana sp.], a thais [Thais aperta], a cowrie [Cypraea caputserpentis] and Cymatium sp. Artifacts present include flakes and cores of basalt and basaltic glass, and one basalt adze blank.

401-6

8 SIGNIFICANCE

401-7

PERIOD		AREAS OF SIGNIFICANCE -- CHECK AND JUSTIFY BELOW			
<input checked="" type="checkbox"/> PREHISTORIC	<input checked="" type="checkbox"/> ARCHEOLOGY-PREHISTORIC	<input type="checkbox"/> COMMUNITY PLANNING	<input type="checkbox"/> LANDSCAPE ARCHITECTURE	<input type="checkbox"/> RELIGION	
<input type="checkbox"/> 1400-1499	<input type="checkbox"/> ARCHEOLOGY-HISTORIC	<input type="checkbox"/> CONSERVATION	<input type="checkbox"/> LAW	<input type="checkbox"/> SCIENCE	
<input checked="" type="checkbox"/> 1500-1599	<input type="checkbox"/> AGRICULTURE	<input type="checkbox"/> ECONOMICS	<input type="checkbox"/> LITERATURE	<input type="checkbox"/> SCULPTURE	
<input checked="" type="checkbox"/> 1600-1699	<input type="checkbox"/> ARCHITECTURE	<input type="checkbox"/> EDUCATION	<input type="checkbox"/> MILITARY	<input type="checkbox"/> SOCIAL/HUMANITARIAN	
<input type="checkbox"/> 1700-1799	<input type="checkbox"/> ART	<input type="checkbox"/> ENGINEERING	<input type="checkbox"/> MUSIC	<input type="checkbox"/> THEATER	
<input type="checkbox"/> 1800-1899	<input type="checkbox"/> COMMERCE	<input type="checkbox"/> EXPLORATION/SETTLEMENT	<input type="checkbox"/> PHILOSOPHY	<input type="checkbox"/> TRANSPORTATION	
<input type="checkbox"/> 1900	<input type="checkbox"/> COMMUNICATIONS	<input type="checkbox"/> INDUSTRY	<input type="checkbox"/> POLITICS/GOVERNMENT	<input checked="" type="checkbox"/> OTHER (SPECIFY)	
		<input type="checkbox"/> INVENTION			

Settlement Pattern, Land Use, Palaeo-environment

SPECIFIC DATES

BUILDER/ARCHITECT

STATEMENT OF SIGNIFICANCE

Kaho'olawe Site 401 is typical of the many clusters of activity areas found in the interior of the east end of Kaho'olawe Island. It derives its primary significance from the fact that it represents one manifestation of a widespread and intensive utilization of the interior of the island. Chronological data derived from this site, taken in conjunction with environmental data that should be reflected in pollen, charcoal and geological data from both this and other sites will provide researchers with valuable information concerning the overall pattern of settlement and land use during middle and later periods of intensive exploitation of the upland region.

401-7

401-8

9 MAJOR BIBLIOGRAPHICAL REFERENCES

10 GEOGRAPHICAL DATA

ACREAGE OF NOMINATED PROPERTY 95.4

UTM REFERENCES

A	0,4	7,5,3,2,8,0	2,2,7,5,9,8,0
	ZONE	EASTING	NORTHING
C	0,4	7,5,3,1,0,0	2,2,7,6,3,0,0

B	0,4	7,5,3,0,2,0	2,2,7,6,1,4,0
	ZONE	EASTING	NORTHING
D	0,4	7,5,3,3,0,0	2,2,7,6,0,2,0

VERBAL BOUNDARY DESCRIPTION

The site is located on the slopes of Lua Makika, approximately 1900 meters east of Puu Moaula, on the east end of Kaho'olawe Island. See the enclosed contour map.

LIST ALL STATES AND COUNTIES FOR PROPERTIES OVERLAPPING STATE OR COUNTY BOUNDARIES

STATE	CODE	COUNTY	CODE
STATE	CODE	COUNTY	CODE

11 FORM PREPARED BY

NAME / TITLE

William Barrera, Jr. Archaeologist

ORGANIZATION

Hawaii Marine Research

DATE

May 5, 1979

STREET & NUMBER

45-267 Kokokahi Place

TELEPHONE

235-1861

CITY OR TOWN

Kaneohe

STATE

Hawaii 96744

12 CERTIFICATION OF NOMINATION

STATE HISTORIC PRESERVATION OFFICER RECOMMENDATION

YES

NO

NONE

STATE HISTORIC PRESERVATION OFFICER SIGNATURE

In compliance with Executive Order 11593, I hereby nominate this property to the National Register, certifying that the State Historic Preservation Officer has been allowed 90 days in which to present the nomination to the State Review Board and to evaluate its significance. The evaluated level of significance is ____ National ____ State ____ Local.

FEDERAL REPRESENTATIVE SIGNATURE

TITLE

DATE

FOR NPS USE ONLY

I HEREBY CERTIFY THAT THIS PROPERTY IS INCLUDED IN THE NATIONAL REGISTER

DATE

DIRECTOR, OFFICE OF ARCHEOLOGY AND HISTORIC PRESERVATION

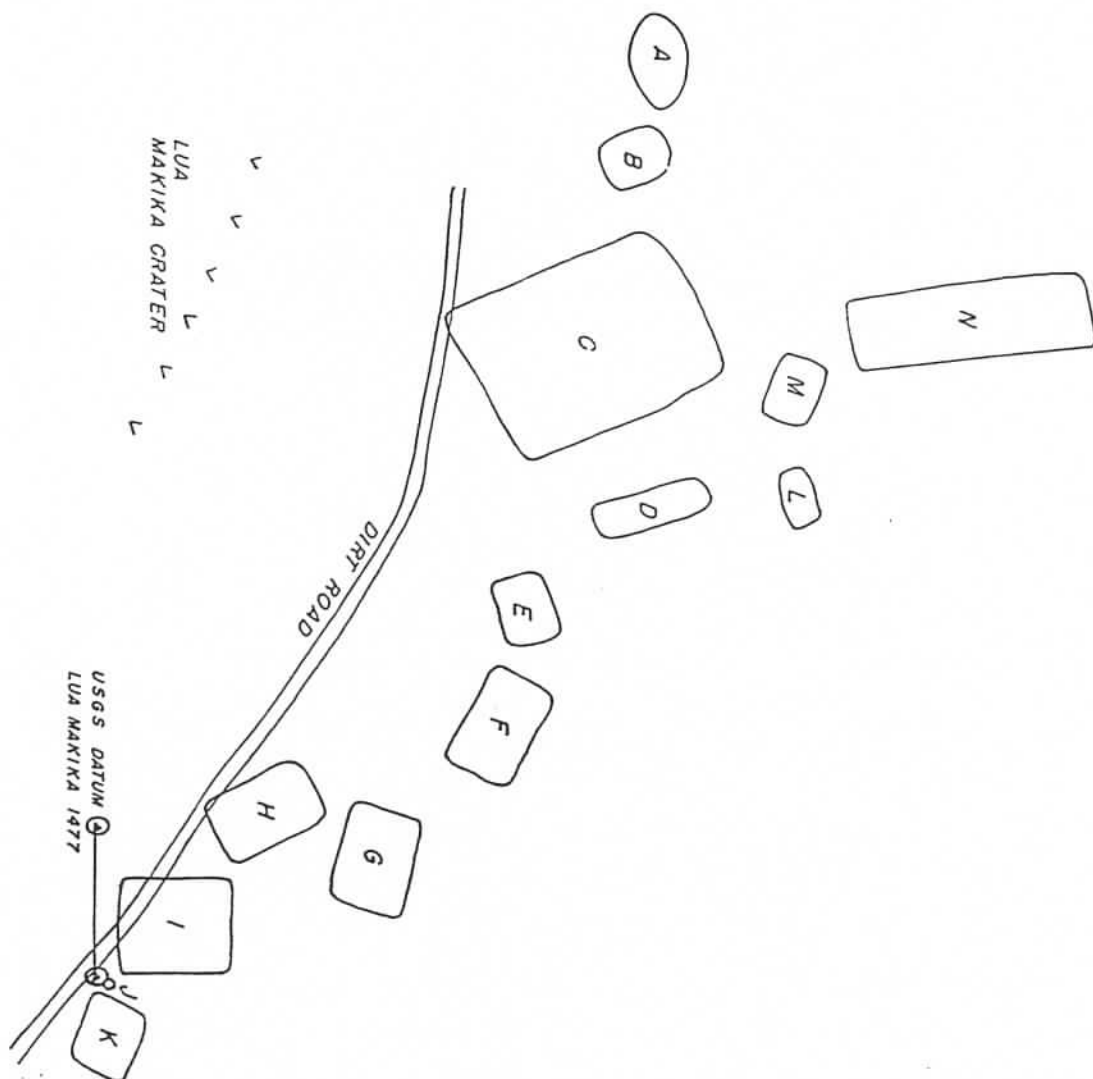
ATTEST:

DATE

KEEPER OF THE NATIONAL REGISTER

401-8

401-9



MN

0 50
METERS
SITE: 50-20-97-401

401-9

GSP CENTRAL FILES

UNITED STATES DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICENATIONAL REGISTER OF HISTORIC PLACES
INVENTORY - NOMINATION FORM

FOR FEDERAL PROPERTIES

FOR NPS USE ONLY

RECEIVED X

DATE ENTERED

SEE INSTRUCTIONS IN HOW TO COMPLETE NATIONAL REGISTER FORMS
TYPE ALL ENTRIES -- COMPLETE APPLICABLE SECTIONS

1 NAME

HISTORIC

AND/OR COMMON

Kaho'olawe Site 402

2 LOCATION

STREET & NUMBER

Island of Kaho'olawe 9992

CITY, TOWN

NOT FOR PUBLICATION

CONGRESSIONAL DISTRICT

STATE

Hawaii

VICINITY OF

CODE

15

COUNTY

Maui

CODE

009

3 CLASSIFICATION

CATEGORY

☐ DISTRICT
☐ BUILDING(S)
☐ STRUCTURE
☒ SITE
☐ OBJECT

OWNERSHIP

☒ PUBLIC
☐ PRIVATE
☐ BOTH

PUBLIC ACQUISITION

☐ IN PROCESS
☐ BEING CONSIDERED

STATUS

☒ OCCUPIED
☐ UNOCCUPIED
☐ WORK IN PROGRESS

ACCESSIBLE

☒ YES: RESTRICTED
☐ YES: UNRESTRICTED
☐ NO

PRESENT USE

☐ AGRICULTURE ☐ MUSEUM
☐ COMMERCIAL ☐ PARK
☐ EDUCATIONAL ☐ PRIVATE RESIDENCE
☐ ENTERTAINMENT ☐ RELIGIOUS
☐ GOVERNMENT ☐ SCIENTIFIC
☐ INDUSTRIAL ☐ TRANSPORTATION
☒ MILITARY ☐ OTHER:

4 AGENCY

REGIONAL HEADQUARTERS: (If applicable)

United States of America
Department of the Navy

STREET & NUMBER

Naval Air Station, Barber's Point

CITY, TOWN

STATE

Hawaii

5 LOCATION OF LEGAL DESCRIPTION

COURTHOUSE,
REGISTRY OF DEEDS, ETC

Pacific Division

STREET & NUMBER

Naval Facilities Engineering Command

CITY, TOWN

Pearl Harbor

STATE

Hawaii 96860

6 REPRESENTATION IN EXISTING SURVEYS

TITLE

DATE

☐ FEDERAL ☐ STATE ☐ COUNTY ☐ LOCALDEPOSITORY FOR
SURVEY RECORDS

CITY, TOWN

STATE

GSP CENTRAL FILES

402-1
Enclosure (5)

7 DESCRIPTION

☒ EXCELLENT
☐ GOOD
☐ FAIR

CONDITION
☒ DETERIORATED
☐ RUINS
☐ UNEXPOSED

CHECK ONE
☒ UNALTERED
☐ ALTERED

CHECK ONE
☒ ORIGINAL SITE
☐ MOVED DATE _____

DESCRIBE THE PRESENT AND ORIGINAL (IF KNOWN) PHYSICAL APPEARANCE

Kaho'olawe Site 402* is a complex consisting of two activity areas located on the slope of Lua Makika on the east end of Kaho'olawe Island. It includes evidence of food preparation and consumption, and the manufacture and use of lithic tools. The permanence of residence cannot be firmly established with the evidence which is presently available, but the lack of habitation structures suggests that occupation was temporary or intermittent. A single basaltic glass hydration-rind date of A.D. 1588 \pm 33 was obtained for a specimen from Feature A. The boundaries were determined arbitrarily, because the density of activity areas in this part of the island makes it impossible to discern discrete archaeological site boundaries.

The site is situated at an elevation of approximately 415 meters, in a denuded area adjacent to remnant hummocks on which kiawe [Prosopis pallida] trees and an unidentified grass are growing. The constituent features of the site [A and B], which covers an area of 120 by 220 meters [2.6 hectares], are discussed below.

Feature A

This is an activity area measuring 65 by 125 meters, consisting of a scatter of firecracked rock, midden remains and artifacts. The midden remains present include the shells of a limpet [Cellana sp.], a thais [Thais aperta], two species of cowrie [Cypraea mauritiana and C. reticulata] and a drupe [Drupa morum], plus fragments of coral. Artifacts present include flakes and cores of basalt and basaltic glass, two basalt adze blanks, five basalt adze blank fragments, and one basalt scraper. A firepit was observed eroding out of a small 0.6 by 1.0 meter] eroding hummock.

Feature B

This is an activity area measuring 62 by 112 meters, consisting of a scatter of firecracked rock, midden materials and artifacts eroding from a remnant hummock in which in situ materials are visible. Midden remains include the shells of a thais [Thais aperta], three species of cowrie [Cypraea mauritiana, C. reticulata and C. caput-serpentis], a helmet [Cassis sp.] and a drupe [Drupa morum], plus fragments of coral. Artifacts present include flakes and cores of basalt and basaltic glass, and a number of water-worn pebbles.

*Site 402 was discovered and recorded during a survey of Kaho'olawe conducted under the auspices of the U. S. Navy.

402-2

8 SIGNIFICANCE

PERIOD		AREAS OF SIGNIFICANCE -- CHECK AND JUSTIFY BELOW			
<input checked="" type="checkbox"/> PREHISTORIC	<input checked="" type="checkbox"/> ARCHEOLOGY-PREHISTORIC	<input type="checkbox"/> COMMUNITY PLANNING	<input type="checkbox"/> LANDSCAPE ARCHITECTURE	<input type="checkbox"/> RELIGION	
<input type="checkbox"/> 1400-1499	<input type="checkbox"/> ARCHEOLOGY-HISTORIC	<input type="checkbox"/> CONSERVATION	<input type="checkbox"/> LAW	<input type="checkbox"/> SCIENCE	
<input checked="" type="checkbox"/> 1500-1599	<input type="checkbox"/> AGRICULTURE	<input type="checkbox"/> ECONOMICS	<input type="checkbox"/> LITERATURE	<input type="checkbox"/> SCULPTURE	
<input type="checkbox"/> 1600-1699	<input type="checkbox"/> ARCHITECTURE	<input type="checkbox"/> EDUCATION	<input type="checkbox"/> MILITARY	<input type="checkbox"/> SOCIAL/HUMANITARIAN	
<input type="checkbox"/> 1700-1799	<input type="checkbox"/> ART	<input type="checkbox"/> ENGINEERING	<input type="checkbox"/> MUSIC	<input type="checkbox"/> THEATER	
<input type="checkbox"/> 1800-1899	<input type="checkbox"/> COMMERCE	<input type="checkbox"/> EXPLORATION/SETTLEMENT	<input type="checkbox"/> PHILOSOPHY	<input type="checkbox"/> TRANSPORTATION	
<input type="checkbox"/> 1900	<input type="checkbox"/> COMMUNICATIONS	<input type="checkbox"/> INDUSTRY	<input type="checkbox"/> POLITICS/GOVERNMENT	<input checked="" type="checkbox"/> OTHER (SPECIFY)	
		<input type="checkbox"/> INVENTION			

Settlement Pattern, Land Use, Palaeo-environment

SPECIFIC DATES

BUILDER/ARCHITECT

STATEMENT OF SIGNIFICANCE

Kaho'olawe Site 402 is typical of the many clusters of activity areas found in the interior of the east end of Kaho'olawe Island. It derives its primary significance from the fact that it represents one manifestation of a widespread and intensive utilization of the interior of the island. Chronological data derived from this site, taken in conjunction with environmental data that should be reflected in pollen, charcoal and geological data from both this and other sites will provide researchers with valuable information concerning the overall pattern of settlement and land use during the middle period of intensive inland exploitation.

402-3

9 MAJOR BIBLIOGRAPHICAL REFERENCES

10 GEOGRAPHICAL DATA

6.5

ACREAGE OF NOMINATED PROPERTY _____

UTM REFERENCES

A

0	4	7	5	3	3	2	0	2	2	7	6	2	0	0
ZONE			EASTING				NORTHING							

B

ZONE			EASTING				NORTHING							

C

ZONE			EASTING				NORTHING							

D

ZONE			EASTING				NORTHING							

VERBAL BOUNDARY DESCRIPTION

The site is located on the slopes of Lua Makika, approximately 1900 meters east of Puu Moaula, on the east end of Kaho'olawe Island. See the enclosed contour map.

LIST ALL STATES AND COUNTIES FOR PROPERTIES OVERLAPPING STATE OR COUNTY BOUNDARIES

STATE	CODE	COUNTY	CODE
STATE	CODE	COUNTY	CODE

11 FORM PREPARED BY

NAME / TITLE

William Barrera, Jr. ARchaeologist

ORGANIZATION

Hawaii Marine Research

DATE

May 5, 1979

STREET & NUMBER

45-267 Kokokahi Place

TELEPHONE

235-1861

CITY OR TOWN

Kaneohe

STATE

Hawaii 96744

12 CERTIFICATION OF NOMINATION

STATE HISTORIC PRESERVATION OFFICER RECOMMENDATION

YES _____

NO _____

NONE _____

STATE HISTORIC PRESERVATION OFFICER SIGNATURE

In compliance with Executive Order 11593, I hereby nominate this property to the National Register, certifying that the State Historic Preservation Officer has been allowed 90 days in which to present the nomination to the State Review Board and to evaluate its significance. The evaluated level of significance is _____ National _____ State _____ Local.

FEDERAL REPRESENTATIVE SIGNATURE

TITLE

DATE

FOR NPS USE ONLY

I HEREBY CERTIFY THAT THIS PROPERTY IS INCLUDED IN THE NATIONAL REGISTER

DATE

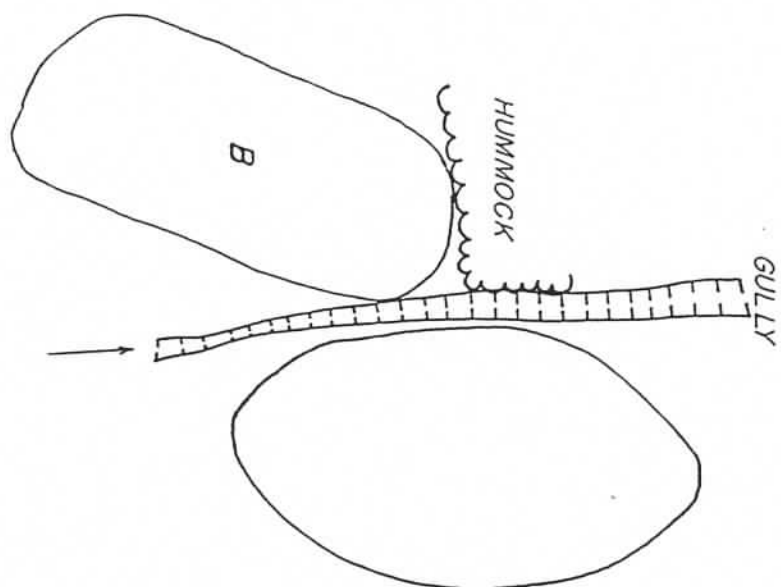
DIRECTOR, OFFICE OF ARCHEOLOGY AND HISTORIC PRESERVATION

ATTEST:

DATE

KEEPER OF THE NATIONAL REGISTER

402-4



0 20 40 60 80
METERS
SITE: 50-20-97-402

402-5

OSP CENTRAL FILES

UNITED STATES DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICENATIONAL REGISTER OF HISTORIC PLACES
INVENTORY -- NOMINATION FORM

FOR FEDERAL PROPERTIES

FOR NPS USE ONLY

RECEIVED

DATE ENTERED

SEE INSTRUCTIONS IN HOW TO COMPLETE NATIONAL REGISTER FORMS
TYPE ALL ENTRIES -- COMPLETE APPLICABLE SECTIONS

1 NAME

HISTORIC

AND/OR COMMON

Kaho'olawe Site 419

2 LOCATION

STREET & NUMBER

Island of Kaho'olawe 9992

CITY, TOWN

NOT FOR PUBLICATION

CONGRESSIONAL DISTRICT

STATE

Hawaii

VICINITY OF
CODE

15

COUNTY Maui

CODE

009

3 CLASSIFICATION

CATEGORY

☐ DISTRICT
☐ BUILDING(S)
☐ STRUCTURE
☒ SITE
☐ OBJECT

OWNERSHIP

☒ PUBLIC
☐ PRIVATE
☐ BOTH

PUBLIC ACQUISITION

☐ IN PROCESS
☐ BEING CONSIDERED

STATUS

☐ OCCUPIED
☒ UNOCCUPIED
☐ WORK IN PROGRESS
☐ ACCESSIBLE
☒ YES: RESTRICTED
☐ YES: UNRESTRICTED
☐ NO

PRESENT USE

☐ AGRICULTURE ☐ MUSEUM
☐ COMMERCIAL ☐ PARK
☐ EDUCATIONAL ☐ PRIVATE RESIDENCE
☐ ENTERTAINMENT ☐ RELIGIOUS
☐ GOVERNMENT ☐ SCIENTIFIC
☐ INDUSTRIAL ☐ TRANSPORTATION
☒ MILITARY ☐ OTHER:

4 AGENCY

REGIONAL HEADQUARTERS (If applicable)

United States of America
Department of the Navy

STREET & NUMBER

Naval Air Station, Barber's Point

CITY, TOWN

STATE

Hawaii

5 LOCATION OF LEGAL DESCRIPTION

COURTHOUSE,
REGISTRY OF DEEDS, ETC

Pacific Division

STREET & NUMBER

Naval Facilities Engineering Command

CITY, TOWN

Pearl Harbor

STATE

Hawaii 96860

6 REPRESENTATION IN EXISTING SURVEYS

TITLE

DATE

☐ FEDERAL ☐ STATE ☐ COUNTY ☐ LOCAL

DEPOSITORY FOR
SURVEY RECORDS

CITY, TOWN

STATE

OSP CENTRAL FILES

419-1
Enclosure (6)

DESCRIPTION

CONDITION		CHECK ONE	CHECK ONE
<input type="checkbox"/> EXCELLENT	<input checked="" type="checkbox"/> DETERIORATED	<input checked="" type="checkbox"/> UNALTERED	<input checked="" type="checkbox"/> ORIGINAL SITE
<input type="checkbox"/> GOOD	<input type="checkbox"/> RUINS	<input type="checkbox"/> ALTERED	<input type="checkbox"/> MOVED
<input type="checkbox"/> FAIR	<input type="checkbox"/> UNEXPOSED		DATE _____

DESCRIBE THE PRESENT AND ORIGINAL (IF KNOWN) PHYSICAL APPEARANCE

Kaho'olawe Site 419* is a complex consisting of one activity area and one concentration of basaltic glass located near the head of Hakioawa Gulch on the east end of Kaho'olawe Island. It includes evidence of the preparation of food and of the manufacture and use of lithic tools. The permanence of residence cannot be firmly established with the evidence which is presently available, but the lack of habitation structures suggests that occupation was temporary or intermittent. Two basaltic glass hydration-rind dates were obtained for the site, one from Feature A [A.D. 1642+31] and one from Feature B [A.D. 1534+27]. The boundaries were determined arbitrarily, because the density of features in this part of the island makes it impossible to discern discrete archaeological site boundaries.

The site is situated at an elevation of approximately 365 meters, in a denuded area adjacent to a remnant soil deposit in which are growing kiawe [*Prosopis pallida*] trees and an unidentified grass. The constituent features of the site [A and B], which covers an area of 40 by 100 meters [0.4 hectare], are discussed below.

Feature A

This is an activity area measuring 20 meters in diameter, consisting of a scatter of firecracked rock and flakes and cores of basalt and basaltic glass.

Feature B

This feature consists of a scatter of basaltic glass flakes and cores covering an area of 12 by 28 meters. Also present are small quantities of firecracked rock and flakes and cores of basalt.

*Site 419 was discovered and recorded during a survey of Kaho'olawe conducted under the auspices of the U. S. Navy.

419-2

89 SIGNIFICANCE

PERIOD		AREAS OF SIGNIFICANCE -- CHECK AND JUSTIFY BELOW			
<input checked="" type="checkbox"/> PREHISTORIC	<input checked="" type="checkbox"/> ARCHEOLOGY-PREHISTORIC	<input type="checkbox"/> COMMUNITY PLANNING	<input type="checkbox"/> LANDSCAPE ARCHITECTURE	<input type="checkbox"/> RELIGION	
<input type="checkbox"/> 1400-1499	<input type="checkbox"/> ARCHEOLOGY-HISTORIC	<input type="checkbox"/> CONSERVATION	<input type="checkbox"/> LAW	<input type="checkbox"/> SCIENCE	
<input checked="" type="checkbox"/> 1500-1599	<input type="checkbox"/> AGRICULTURE	<input type="checkbox"/> ECONOMICS	<input type="checkbox"/> LITERATURE	<input type="checkbox"/> SCULPTURE	
<input checked="" type="checkbox"/> 1600-1699	<input type="checkbox"/> ARCHITECTURE	<input type="checkbox"/> EDUCATION	<input type="checkbox"/> MILITARY	<input type="checkbox"/> SOCIAL/HUMANITARIAN	
<input type="checkbox"/> 1700-1799	<input type="checkbox"/> ART	<input type="checkbox"/> ENGINEERING	<input type="checkbox"/> MUSIC	<input type="checkbox"/> THEATER	
<input type="checkbox"/> 1800-1899	<input type="checkbox"/> COMMERCE	<input type="checkbox"/> EXPLORATION/SETTLEMENT	<input type="checkbox"/> PHILOSOPHY	<input type="checkbox"/> TRANSPORTATION	
<input type="checkbox"/> 1900	<input type="checkbox"/> COMMUNICATIONS	<input type="checkbox"/> INDUSTRY	<input type="checkbox"/> POLITICS/GOVERNMENT	<input checked="" type="checkbox"/> OTHER (SPECIFY)	
		<input type="checkbox"/> INVENTION			

Settlement Pattern, Land Use, Lithic Technology

SPECIFIC DATES

BUILDER/ARCHITECT

STATEMENT OF SIGNIFICANCE

Kaho'olawe Site 419, with the exception of the thick concentrations of basaltic glass found in Feature B, is typical of the many clusters of activity areas found in the interior of the east end of Kaho'olawe Island. Feature A derives its primary significance from the fact that it represents one manifestation of a widespread and intensive utilization of the interior of the island. Feature B is of especial significance for the information it contains relative to the technological expertise of the Hawaiians in the manufacture of lithic tools. Chronological data from this site, taken in conjunction with environmental data that should be reflected in pollen, charcoal and geological data from other sites will provide researchers with valuable information concerning the overall pattern of settlement and land use during the middle and late periods of intensive inland exploitation.

419-3

9 MAJOR BIBLIOGRAPHICAL REFERENCES

10 GEOGRAPHICAL DATA 1.0

ACREAGE OF NOMINATED PROPERTY _____

UTM REFERENCES

A 04 753300 2276120
 ZONE EASTING NORTHING

B _____
 ZONE EASTING NORTHING

C _____
 ZONE EASTING NORTHING

D _____
 ZONE EASTING NORTHING

VERBAL BOUNDARY DESCRIPTION

The site is located at the head of Hakioawa Gulch, approximately 2100 meters northeast of Puu Moaula, on the east end of Kaho'olawe Island. See the enclosed contour map.

LIST ALL STATES AND COUNTIES FOR PROPERTIES OVERLAPPING STATE OR COUNTY BOUNDARIES

STATE	CODE	COUNTY	CODE
STATE	CODE	COUNTY	CODE

11 FORM PREPARED BY

NAME / TITLE

William Barrera, Jr. ARchaeologist

ORGANIZATION

Hawaii Marine Research

DATE

May 7, 1979

STREET & NUMBER

45-267 Kokokahi Place

TELEPHONE

235-1861

CITY OR TOWN

Kaneohe

STATE

Hawaii 96744

12 CERTIFICATION OF NOMINATION

STATE HISTORIC PRESERVATION OFFICER RECOMMENDATION

YES _____

NO _____

NONE _____

STATE HISTORIC PRESERVATION OFFICER SIGNATURE

In compliance with Executive Order 11593, I hereby nominate this property to the National Register, certifying that the State Historic Preservation Officer has been allowed 90 days in which to present the nomination to the State Review Board and to evaluate its significance. The evaluated level of significance is _____ National _____ State _____ Local.

FEDERAL REPRESENTATIVE SIGNATURE

TITLE

DATE

FOR NPS USE ONLY

I HEREBY CERTIFY THAT THIS PROPERTY IS INCLUDED IN THE NATIONAL REGISTER

DATE

DIRECTOR, OFFICE OF ARCHEOLOGY AND HISTORIC PRESERVATION
 ATTEST:

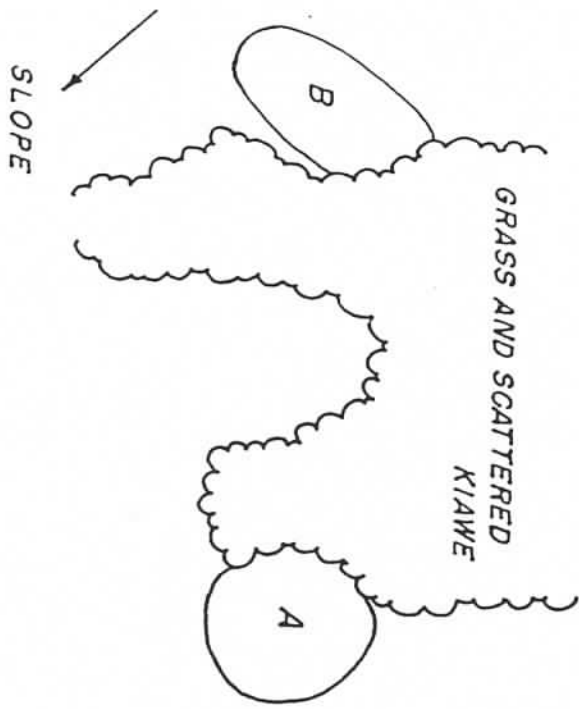
DATE

KEEPER OF THE NATIONAL REGISTER

GPO 899-214
 419-4

419-5

50-20-97-419



GLOSSARY OF TERMS

A/E	Architect/Engineer
A/N	Army/Navy
AALA	American Association for Laboratory Accreditation
AASHTO	American Association of State Highway and Transportation Officials
ACHP	Advisory Council on Historic Preservation
ACO	Administrative Contracting Officer
ACRN	Accounting Classification Reference Number
AGM	Air-to-Ground Missile
AHCR	Archaeological, Historical, Cultural, and Religious Sites and Artifacts
AMSDL	Acquisition Management System and Data Requirements Control List
ANSI	American National Standards Institute
ARPA	Archaeological Resources Protection Act
ASQC	American Society for Quality Control
ASTM	American Society for Testing Materials
ATF	Alcohol, Tobacco & Firearms
BCM	Base Camp Manager
BCQCM	Base Camp Quality Control Manager
BCSO	Base Camp Safety Officer
BIP	Blown In Place
BOQ	Bachelor Officer Quarters
BOS	Base Operating Support
CAA	Clean Air Act
CAD	Computer Aided Design
CAGE	Commercial and Government Entity
Cal	Caliber
CAM	Contract Administration Manager
CAS	Cost Accounting Standards
CASB	Cost Accounting Standards Board
CCB	Construction Contracts Branch
CD-ROM	Compact Optical Disc-Read Only Memory
CDL	Contract Deliverables List
CEP	Circular Error Probable
CERCLA	Comprehensive Environmental Response Compensation and Liability Act
CFR	Code of Federal Regulations
CLIN	Contract Line Item Number
cm	Centimeters
CMS	Contract Management System
CNA	Certificate of Non-Availability
CO	Contracting Officer
COMNAVBASE	Commander, Naval Base Pearl Harbor
CONUS	Continental United States
COTR	Contracting Officer's Technical Representative
CPAF	Cost-Plus-Award-Fee
CPI	Consumer Price Index
CPM	Critical Path Method
CQA	Certified Quality Auditor
CQCM	Construction Quality Control Manager
CQE	Certified Quality Engineer
CQM	Certified Quality Manager
CR	Cost Reimbursement
CSO	Construction Safety Officer
CSP	Certified Safety Professional

GLOSSARY OF TERMS

CWA	Clean Water Act
DBA	Davis Bacon Act
DD Form	Department of Defense Form
DDBQC	Data/Database Quality Control
DFARS	Department of Defense Federal Acquisition Regulation Supplement
Dia	Diameter
DID	Data Item Description
DLSC	Defense Logistics Services Center
DM	Data/Database Manager
DoD	Department of Defense
DPAS	Defense Priorities and Allocations System
DRC	Dispute Resolution Committee
DS	Demolition Supervisor
ECR	Environmental Conditions Report
ED	Kaho'olawe Island Reserve Commission 's Executive Director
EE/CA	Engineering Evaluation/Cost Analysis
EIC	Engineer-in-Charge
EM	Environmental Manager
EM	Engineering Manual
EMS	Emergency Medical Service
EMT	Emergency Medical Technician
EO	Explosive Ordnance
EOD	Explosive Ordnance Disposal
EPA	Environmental Protection Agency
EPCRA	Emergency Planning and Community Right-to-Know Act
EPS	Environmental Protection Specialist
EQCM	Environmental Quality Control Manager
FAA	Federal Aviation Administration
FAE	Fuel Air Explosive
FAR	Federal Acquisition Regulation
FAX	Facsimile
FCCM	Facilities Capital Cost of Money
FDO	Fee Determination Official
FFP	Firm Fixed Price
FICA	Federal Income Contributions Act
FLSA	Fair Labor Standards Act
FR	Federal Regulations
Frag	Fragmentation
ft	Feet
FUTA	Federal Unemployment Tax Act
G&A	General and Administrative
GAO	General Accounting Office
GB	Gigabytes
GDP	Geophysical Detector Personnel
GET	General Excise Tax
GFE	Government Furnished Equipment
GFF	Government Furnished Facilities
GFM	Government Furnished Material
GFP	Government Furnished Property
GIS	Geographical Information System
GPS	Global Positioning System
GRS	Geocentric Reference System

GLOSSARY OF TERMS

ha	Hectares
HAR	Hawai'i Administrative Rules
HCBU/MI	Historically Black Colleges and Minority Institutions
HCR	Historical, Cultural, and Religious Sites and Artifacts
HE	High Explosive
HERO	Hazard of Electromagnetic Radiation to Ordnance
HPA	Historic Preservation Field/Lab Assistant
HPFD	Historic Preservation Field Director
HPFS	Historic Preservation Field Supervisor
HPLD	Historic Preservation Laboratory Director
HPM	Historic Preservation Manager
HPQCM	Historic Preservation Quality Control Manager
HPT	Historic Preservation Technician
HRS	Hawaii Revised Statutes
HSM	Project Health and Safety Manager
HTRW	Hazardous, Toxic, Radioactive Waste
HVAR	High Velocity Anti Armor
IH	Industrial Hygienist
in	Inches
IRS	Internal Revenue Service
ISO	International Organization for Standardization
JTR	Joint Travel Regulations
JV	Joint Venture
JWOD	Javis-Wagner-O'Day
KIGIS	Kaho'olawe Island Geographical Information System
KIR	Kaho'olawe Island Reserve
KIRC	Kaho'olawe Island Reserve Commission
KOR	Kaho'olawe Island Reserve Commission's On-Island Representative
KPO	Kaho'olawe Project Officer (Navy's)
KRC	Kaho'olawe Remediation Coordinator
LAW	Light Anti-Tank Weapon
lb	Pound
LDGP	Low Drag General Purpose (bomb)
LEPC	Local Emergency Planning Committee
LZ	Landing Zone
m	Meters
MB	Megabytes
MD	Maryland
MGE	Modular Geographical Information System Environment
MH	Military Historian
MHZ	Megahertz
MIL-STD	Military Standard
mm	Millimeters
MO	Maintenance & Operation (Manual)
MOMAT	Mobil Material
MOU	Memorandum of Understanding
MSDS	Material Safety Data Sheet
MSG	Monosodium Glutamate
NAD	North American Datum of 1983
NAVEODTECHDIV	Naval Explosive Ordnance Disposal Technology Division
NAVFACENGCOM	Naval Facilities Engineering Command
NAVMED	Naval Medical (Bureau of Medicine and Surgery)

GLOSSARY OF TERMS

NAVSEA	Naval Sea System Command
NAVSUP	Naval Support Command
NBC	Nuclear, Biological, Chemical
NCP	National Oil and Hazardous Substance Pollution Contingency Plan
NFESC	Naval Facility Engineering Service Center
NFGS	Naval Facilities Guide Specification
NGVD 29	National Geodetic Vertical Datum of 1929
NHPA	National Historic Preservation Act
NISH	National Industry for the Severely Handicapped
NIST	National Institute of Standards and Technology
NR	National Register
NRC	National Response Center
NRM	Natural Resources Manager
NRQCM	Natural Resources Quality Control Manager
NRS	Natural Resources Specialist
NSN	National Stock Number
NTR	Navy Technical Representative
NVLAP	National Voluntary Laboratory Accreditation Program
O&M	Operation and Maintenance
OB	Open Burn
OCNUS	Outside the Continental United States
OD	Open Detonation
ODCs	Other Direct Charges
OE	Ordnance and Explosives
OHM	Oil and Hazardous Material
OP	Operation
OPNAVINST	Operation Naval Instruction
OSHA	Occupational Safety and Health Administration
PACDIV	Pacific Division
PACNAVFACENGCOM	Pacific Division, Naval Facilities Engineering Command
PASS	Procurement Automated Source System
PC	Personal Computer
PCMCIA	Personal Computer Memory Card International Association
PCO	Procurement Contracting Officer
PDE	Project Design Engineer
PKO	Protect Kaho'olawe Ohana
PM	Program Manager
PMI	Preventive Maintenance Inspection/Service Program
PMO	Program Management Office
POL	Petroleum, Oil, and Lubricants
POV	Privately Owned Vehicle
PPA	Public Participation Agreement
PPA	Pollution Prevention Act
PPE	Personal Protective Equipment
PQCM	Project Quality Control Manager
PS	Project Superintendent
QA	Quality Assurance
QAPP	Quality Assurance Project Plan
QASAS	Quality Assurance Specialist Ammunition Surveillance
QC	Quality Control
RA	Remedial Action
RA-WBS	Remedial Action Work Breakdown Structure

GLOSSARY OF TERMS

RAID	Redundant Array Independent Disks
RAM	Random Access Memory
RCO	Range Control/Operations Officer
RCRA	Resource Conservation and Recovery Act
RFP	Request for Proposal
RFW	Regulatory Framework
RIS	Intergraph Relational Interface System
RLS	Registered Land Surveyor
RO	Reverse Osmosis
SAP	Special Armor Piercing
SARA	Superfund Amendments and Reauthorization Act of 1986
SB	Small Business
SBA	Small Business Administration
SCA	Service Contract Act
SDB	Small Disadvantaged Business
SERC	State Emergency Response Commission
SF	Standard Form
SHPD	State Historic Preservation Division
SHPO	State Historic Preservation Officer
SHSP	Site Health and Safety Plan
SIC	Standard Industrial Classification
SLIN	Subline Item Number
SOP	Standard Operating Procedure
SOW	Statement of Work
SP	Sample Project
SPA	Site Protection Agreement
SPCC	Spill Prevention Control and Countermeasures
SPM	Senior Project Manager
SUTA	State Unemployment Tax Act
SUXOSS	Senior Unexploded Ordnance Specialist Supervisor
SVGA	Super Video Graphic Adapter
TCP	Traditional Cultural Property
TDY	Temporary Duty
TIN	Taxpayer Identification Number
TO	Task Order
TOES	Telephone Order Entry System
UH	University of Hawaii
US	United States
USC	United States Code
USC&GS	United States Coast & Geodetic Survey
UTM	Universal Transverse Mercator
UXO	Unexploded Ordnance
UXOE	Unexploded Ordnance Escort
UXOHEOEXC	Unexploded Ordnance Heavy Equipment Operator for Excavation
UXOQCM	Unexploded Ordnance Quality Control Manager
UXOS	Unexploded Ordnance Specialist
UXOSO	Unexploded Ordnance Safety Officer
UXOSP	Unexploded Ordnance Sweep Personnel
UXOSS	Unexploded Ordnance Specialist Supervisor
VCR	Video Cassette Recorder
VT	Variable Time
VHS	Video Home System

GLOSSARY OF TERMS

WBS	Work Breakdown Structure
WGS84	World Geodetic System of 1984
WO-SB	Women Owned Small Business
WOSDB	Women Owned Small Disadvantaged Business
WP	Work Plan
WP	White Phosphorous
YR	Year