

DEPARTMENT OF DESIGN AND CONSTRUCTION  
**CITY AND COUNTY OF HONOLULU**  
650 SOUTH KING STREET, 11<sup>TH</sup> FLOOR  
HONOLULU, HAWAII 96813  
Phone: (808) 523-4564 • Fax: (808) 523-4567  
Web site: [www.co.honolulu.hi.us](http://www.co.honolulu.hi.us)

JEREMY HARRIS  
MAYOR



TIMOTHY E. STEINBERGER, P.E.  
DIRECTOR

July 10, 2003

RECEIVED  
03 JUL 11 P1:55  
OFC. OF ENVIRONMENTAL  
QUALITY CONTROL

Ms. Genevieve Salmonson, Director  
Office of Environmental Quality Control  
State of Hawaii  
235 South Beretania Street, Suite 702  
Honolulu, Hawaii 96813

Dear Ms. Salmonson:

Subject: Final Environmental Assessment (EA) for  
Canoe Halau at Makaha Beach Park  
TMK: 8-4-001: 012, 8-4-002: 047  
84-369 Farrington Highway, Waianae, Hawaii 96792

The City and County of Honolulu Department of Design and Construction has reviewed the comments received during the 30-day public comment period which began on June 8, 2003. The agency has determined that this project will not have any significant environmental effects and has issued a Finding of No Significant Impact. Please publish this notice in the July 23, 2003, OEQC Environmental Notice.

We have enclosed a completed OEQC Publication Form and four copies of the final EA. Please call Mr. Dan Chun, the project's environmental consultant, at (808) 526-2283 or Mr. Wesley Obata at (808) 523-4783, Department of Design and Construction, if you have any questions.

Sincerely,

A handwritten signature in black ink, appearing to read "T. Steinberger".

TIMOTHY E. STEINBERGER, PE  
Director

TES:gt

Enclosures

2003-07-23-DA-PEA

JUL 23 2003

FILE COPY

(MAKAHA BEACH PARK CANOE HALAU)  
CANOE HALAU AT MAKAHA BEACH PARK

FINAL ENVIRONMENTAL ASSESSMENT

Prepared  
For

Department of Design & Construction  
City & County of Honolulu

By

Kauahikaua and Chun Architects  
567 S. King St. Suite 108  
Honolulu, HI 96813

July 2003

## INTRODUCTION

---

This Final Environmental Assessment documents the anticipated impacts of a Canoe Halau (boat storage) at Makaha Beach Park (Figure 1 by the City & County of Honolulu Department of Design and Construction.

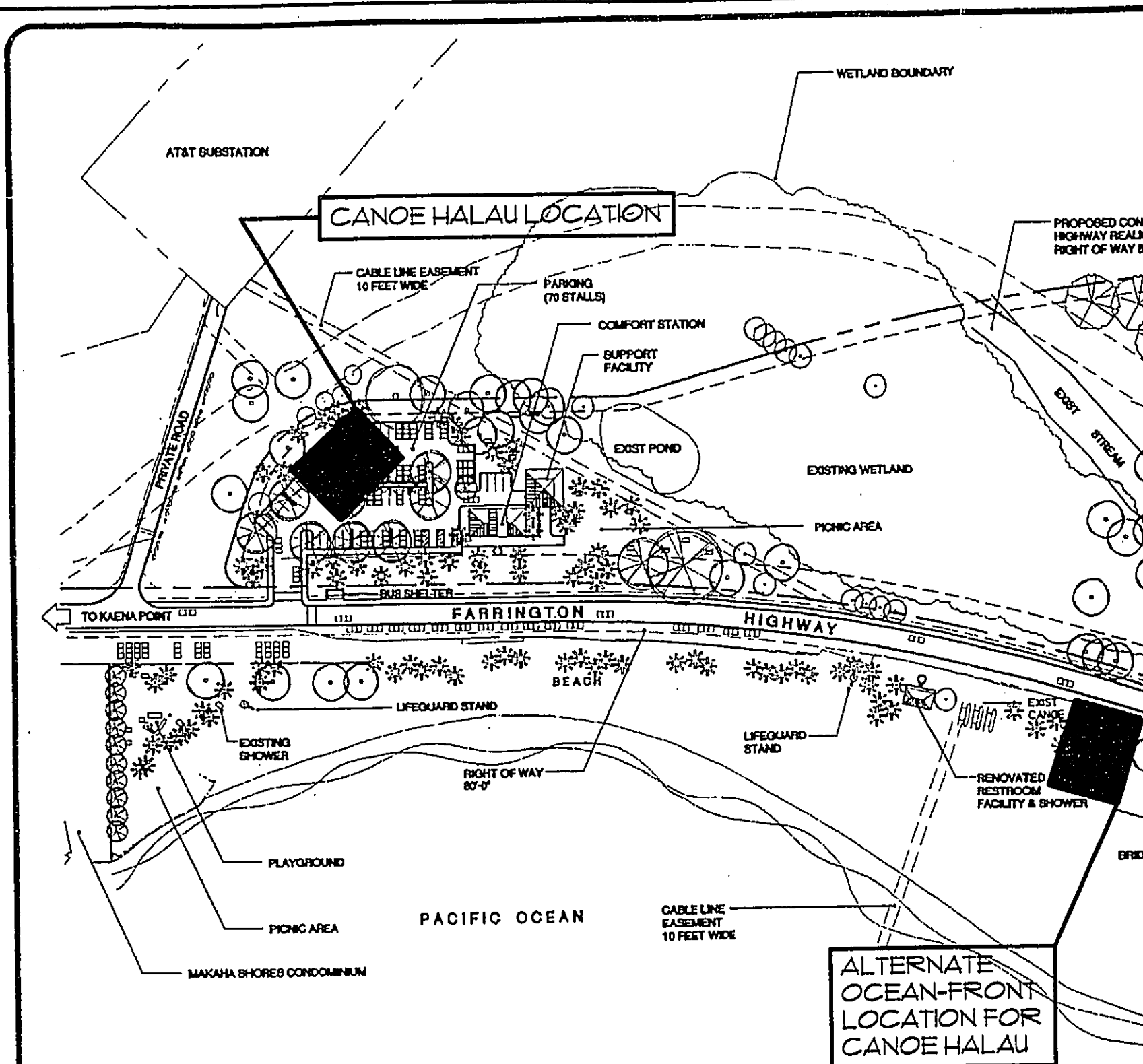
The Canoe Halau will provide shaded and secured storage for canoes presently stored in the sun on the open beach during canoe racing season. The building design follows indigenous Hawaiian architectural designs for canoe halau (long house) in ocean front locations. The high native roof profile will be dwarfed by high cliffs of the Waianae mountains behind the park.

As an accessory building to enhance existing park recreational activities, no added toilet facilities or parking spaces are being provided. A small number of parking spaces are being removed in the under-utilized part of the parking area.

Initial planning focused on building a canoe halau on the oceanfront of Makaha Beach Park. Seasonally shifting sands, heavy scouring during storms, lack of adequate building foundation material, traffic congestion during canoe maneuvering, and blockage of ocean views led the design team and the Department of Design & Construction to consider a safer site on the *mauka* side of Farrington Highway.

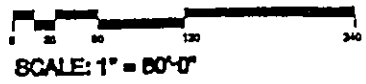
The recommended site has superior site characteristics for construction and significantly less environmental impact than did the oceanfront site. Based on a canoe halau on the *mauka* boundary of the park, the building will have a good relationship to any future realigned Farrington Highway as shown in Figure 1 Master Plan. This is because much canoe maneuvering at the canoe halau is for trucking the boats to off-site races. During prime canoe racing practice season canoes will be left on the sandy beach right next to the ocean.

The proposed Canoe Halau is not anticipated to generate any significant adverse impacts on the environment. The purpose of this project is to enhance existing canoe recreational activities by protecting and securing existing canoes.



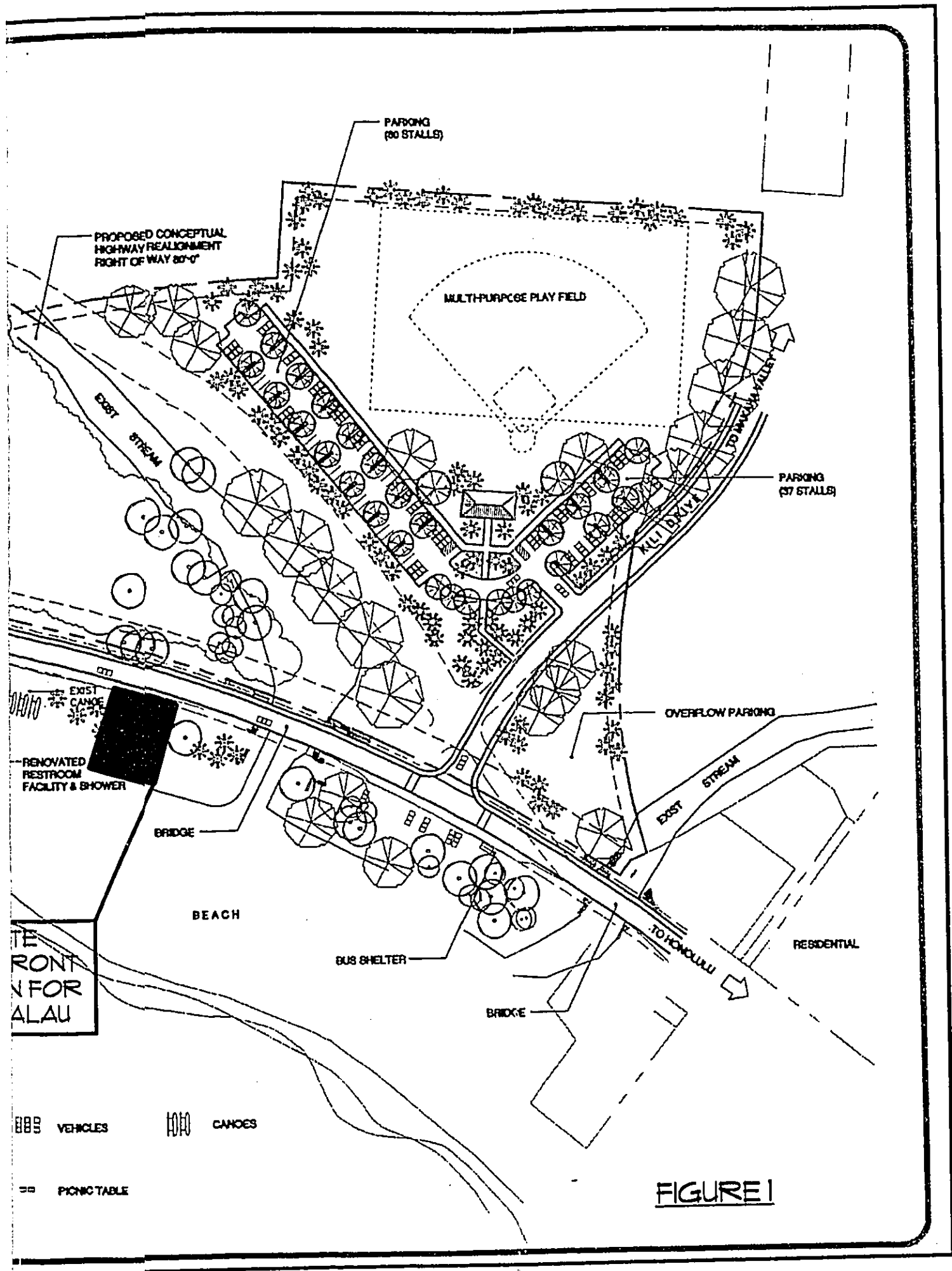
# CONCEPTUAL MASTER PLAN MAKAHA BEACH PARK

DEPARTMENT OF PARKS & RECREATION  
CITY & COUNTY OF HONOLULU

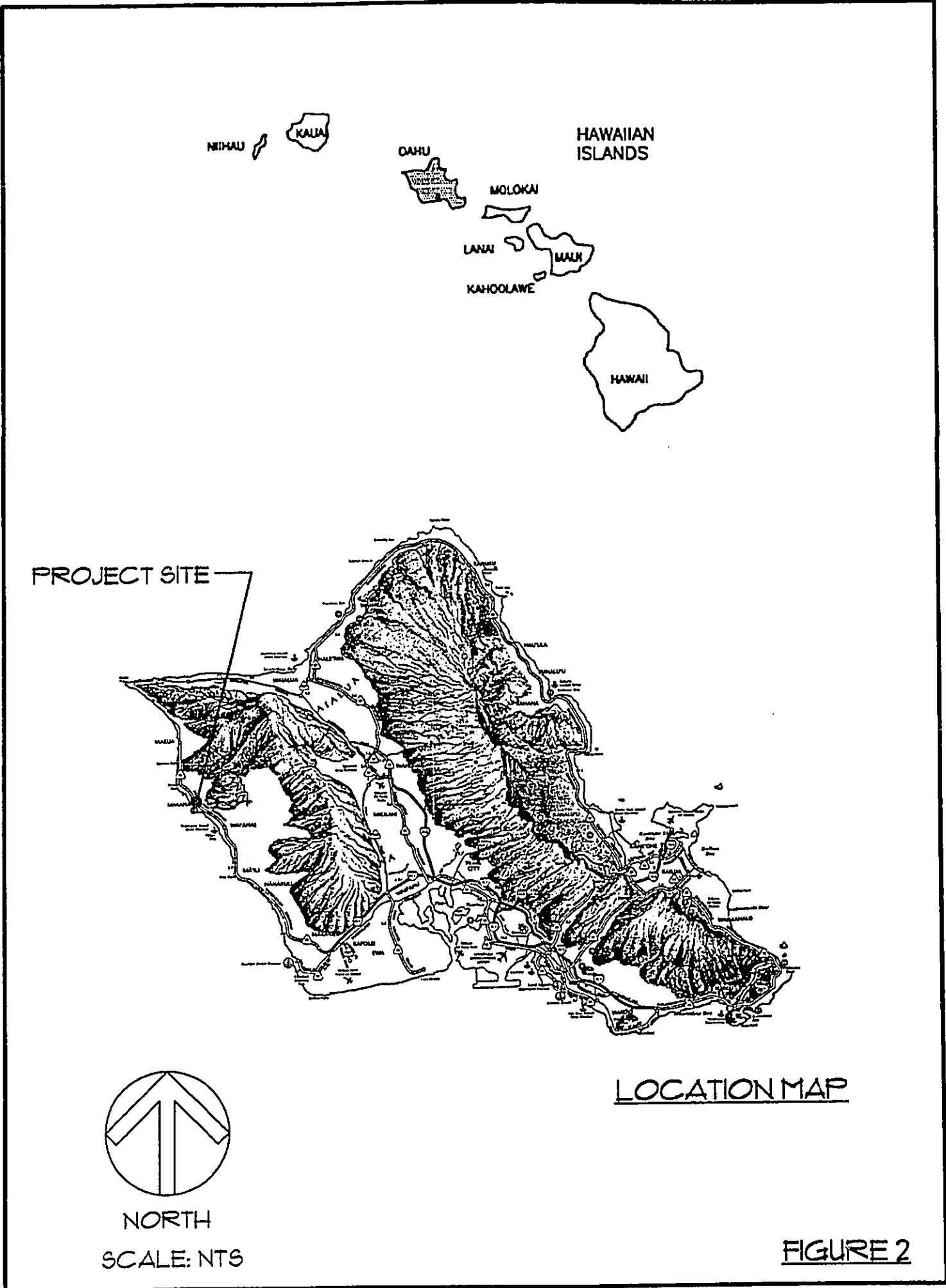


### LEGEND

- EXISTING TREES
- NEW TREES
- VEHICLES
- PICNIC TABLE



**FIGURE 1**

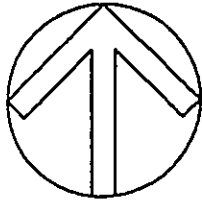


PROJECT SITE

HAWAIIAN ISLANDS

HAWAII

LOCATION MAP



NORTH  
SCALE: NTS

FIGURE 2

## SUMMARY INFORMATION

---

Project: Canoe Halau at Makaha Beach Park

Proposing Agency: Department of Design & Construction  
City & County of Honolulu

Determining Agency: Department of Design & Construction  
City & County of Honolulu

Location: Makaha, Oahu, Hawaii

Tax Map Key: 8-4-1:12 & 8-4-2:47

Land Owner: City & County of Honolulu

Area: Approximately 20.622 acres

State Land Use Designation: Urban

Development Plan Area: Waianae

Land Use Map: Park, Agriculture, Residential

Zoning: P-2 General Preservation  
A-1 Agriculture

Existing Use: Beach Park

Agent: Daniel Chun, FAIA  
Kauahikaua & Chun / Architects  
567 South King Street Suite 108  
Honolulu, Hawaii 96813  
Phone: 526-2283

DDC Project Manager: Wesley Obata, Project Manager  
Department of Design & Construction  
City & County of Honolulu  
650 South King Street  
Honolulu, Hawaii 96813  
Phone: 523-4783

Table of Contents

		Page
INTRODUCTION		i
SUMMARY INFORMATION		ii
Table of Contents		iii
List of Figures		iv
SECTION 1	DESCRIPTION OF PROPOSED ACTION	1
	A. Purpose and Need	1
	B. Planning Goals and Objectives	1
	C. Proposed Facilities and Improvements	1
	D. Economic Characteristics	1
SECTION 2	DESCRIPTION OF AFFECTED ENVIRONMENT	
	A. Physical Features	2-3
	B. Cultural Features	3-4
	C. Marine Features	4-5
	D. Public Facilities	5
	E. Land Use Control	5
	F. Park Use and Activities	5-6
	G. Roads and Parking	6-7
SECTION 3	SUMMARY OF POTENTIAL ENVIRONMENTAL IMPACT AND MEASURES TO MIRIGATE ADVERSE EFFECTS	
	A. Description of Assessment	8
	B. Short-term Impacts	8
	C. Long-term Impacts	9
	D. Assessment on Cultural Impacts	9-10
	E. Traffic Impacts	11
SECTION 4	ALTERNATIVES TO THE PROPOSED ACTION	12-13
SECTION 5	AGENCIES AND ORGANIZATIONS CONSULTED DURING THE ASSESSMENT PROCESS	14
SECTION 6	DETERMINATION OF SIGNIFICANCE	15-17
SECTION 7	REFERENCES	18
APPENDIX	PERMITS AND APPROVALS REQUIRED CONSULTATION LETTERS & RESPONSES	
Final Environmental Assessment Canoe Halau at Makaha Beach Park		iii



## LIST OF FIGURES

---

FIGURE NUMBER	TITLE
1	Master Plan and Halau Location Plan
2	Location Map
3	Kaneaki Heiau Location Map
4	Ukanipo Heiau Location Map
5	Seasonal Sand Movement
6	Storm Damage February 1983
7	Location and TMK Map
8	State Land Use Map
9	Special Management Area Map
10	Zoning Map
11	Flood Zone Map
12	Architectural Site Plan, Landscape Plan
13	Floor Plan, Exterior Views
14	Building Sections

## SECTION 1 DESCRIPTION OF THE PROPOSED ACTION

---

The Department of Design and Construction City & County of Honolulu and the Waianae Coast Visioning Team #16 has planned a Makaha Beach Park Canoe Halau, for park land located in the *ahupua'a* of Makaha, Waianae District, Island of Oahu, State of Hawaii (Figure 2). Owned by the City and County of Honolulu, Makaha Beach Park is identified as Tax Map Key 8-4-01:12 and 8-4-02:47 with an estimated land area of 20.622 acres. A location map is shown in Figure 7.

### A. Purpose and Need

Makaha Beach Park is a world famous surfing beach. The beach and its waters are also used for activities such as swimming, diving, boogie boarding, body surfing, sunbathing, fishing and canoe racing. Makaha has an active canoe club that is in need of canoe storage to protect the glass fiber resin boats from damaging ultraviolet rays of the sun. Presently canoes are stored in club members' private yards and other makeshift storage.

### B. Planning Goals and Objectives

The goals and objectives are to support Hawaiian canoe racing.

### C. Proposed Facilities and Improvement

The proposed facility is a canoe halau for storing 18 racing sized outrigger canoes. Plans, exterior views, and other design features are shown in Figures 12, 13, and 14.

The proposed Canoe Halau has architectural design inspired by indigenous Hawaiian architecture. Relatively steep roofs with low eaves and a surrounding lava rock platform seen in indigenous canoe halau are translated into modern durable materials. Strong Hawaiian community connections and cultural associations on the Waianae Coast are physically manifested in the project.

### D. Economic Characteristics

Construction of the canoe halau is approximately 8 months. Funding for this construction has been allocated.

## SECTION 2 DESCRIPTION OF THE AFFECTED ENVIRONMENT

---

### A. Physical Features

#### Location

Makaha Beach Park is located on the western end of Oahu, along the Leeward Coast, in the Makaha ahupua'a. Farrington Highway bisects the park. The site shown on Figure 7 is internationally known as a world-class surfing beach.

#### Climate

The climate is relatively dry in this area due to location on the Leeward side of the Waianae Mountain Range. The area receives less than 20 inches (508 mm) of rain annually. Most of the rainfall occurs during the winter months between October and March. The project site is relatively hot, with a minimum mean of 60-70 degrees Fahrenheit and a maximum mean of 80-90 degrees Fahrenheit.

#### Soils

The soil at the project site is classified as a Haleiwa Silty Clay. The surface layer is dark brown Silty clay approximately 17 inches thick. Subsoil and substratum extends to a depth of more than 5 feet and are dark brown and dark yellowish brown Silty clay. Excavation and replacement of expansive clay soils is shown in Figure 14.

#### Topography

The site is a portion of the existing parking lot constructed under the toilet Comfort Station project of 1997 for which an Environmental Assessment was made resulting in a Finding of No Significant Impact. The topography is mostly flat with the exception of the area toward the AT&T Makaha Cable Station.

#### Flood Hazard

Based on the Flood Zone Map Figure 11, TMK 8-4-2:47 is within Flood Zone A and AE and Makaha Beach Park is within Flood Zone AE and VE. Project will comply with flood requirements of Section 7.10 of the Land Use Ordinance (LUO).

#### Water Resources

There are two existing slow running streams that separate from the main Makaha Stream. One stream runs through the existing Wetland and the other runs adjacent to the east side of Kili Drive. The mouth of both streams ends at Makaha Beach. Tax Map Key indicates that the stream varies in width while approximately 10 feet wide. Source of the stream is upper Makaha Valley. The canoe halau is some 150 feet north of the closest water resource – the edge of the wetland.

### Wetland

Wetland shown is located within the park. As part of the 1997 Environmental Assessment for the park master plan the topography survey plan was submitted to the U.S. Army Corps of Engineers for review. U.S. Army Corps of Engineers delineated an area in Figure 1 as a wetland.

The north end of the wetland has a large pool of open water. The near circular shaped of the pool suggests that the pool is man-made. The U.S. Fish and Wild Life Services National Wetland Inventory maps designate this pool as an excavated palustrine open water habitat. The Canoe Halau is located some 150 feet north of the wetland.

### Flora & Fauna

The Canoe Halau will be constructed in the existing parking lot, creating no adverse impact on existing naturally occurring flora and fauna. The closest wetland area includes Batis maritime, Cynodon dactylon var. maritimus, Pennisetum setosum (or Cenchrus ciliaris), Prosopis pallida (Kiawe), Pluchea symphytifolia, P. indica, Solanum nigrum and Amaranthus viridis. Other trees existing in the park are Cocos nucifera (coconut tree), Hibiscus tiliaceus (Hau), Terminalia catappa (False Kamani) and Pandanus Odoratissimus (Pandanus).

Wild life in the wetland and surrounding areas include the blackcrowmed night heron (Nycticorax nycticorax hoactli), cattle egret (Bubulcus ibis), Pacific golden plover (Pluvalis dominica fulva), myah (Acridotheres tristis), house sparrow (Passer domesticus), barred dove (Geopelia striata striata), mockingbird (Mimus polyglottos), American cardinal (Cardinalis cardinalis), Brazilian cardinal (Paroaria coronata), Japanese white-eye (Zosterops japonica japonica) and Shama trush (Copsychus malabaricus). The standing pools contained mosquito fish (Gambusia affinis) and Sarotherodon mossambica.

Two endangered Hawaiian stilts (Himantopus mexicanus knudseni) were observed by service biologists on July 25, 1997 near the existing pond. Because the Canoe Halau is not actually within the area of the pond and wetland, the area will not be affected. During construction the wetland will be protected by complying with dust control and erosion control guidelines. Only one night light is proposed for the Canoe Halau. This night light is mounted under the building eave and pointed toward the ground surface to minimize adverse impacts on sea birds.

### **B. Cultural and Historic Features**

There are two *heiau* located in Waianae but these are not within the location of the project site. Kaneaki Heiau is located approximately 2.3 miles (3.7 km) inland of the project site. The other major *heiau* of the region is Ukanipo Heiau located on the west side of Makua Valley, approximately 4.3 miles (6.9 km) away. Refer to Figures 3 and 4 for location of Kaneaki Heiau and Ukanipo Heiau.

The prominent stone is known as Pohaku O Kane which was said to have been used by cannibals, robbers and murderers to spot their victims in pre-contact times, is located outside of the park boundaries.

The Canoe Halau is being built in the existing parking lot that was built by excavating below the former ground level. Cleghorn's 1996-1997 archaeological inventory survey conducted for the parking lot found that it would be highly unlikely that significant historic sites would be present in the immediate project area. Subsequently no historic finds were reported during the parking lot construction. If the Canoe Halau construction work encounters any historic artifacts or burial remains, the work will be halted and the construction contractor is required to notify the Department of Land and Natural Resources Historic Preservation Division.

### C. Marine Features

Hawaii has four primary wave types, the northeast trade wind waves, south swell, Kona storm waves and North Pacific. The North Pacific swell occurs between October and March and is produced by severe winter storms in the Aleutian area and the mid-latitude low pressure areas. Through refraction and diffraction, any north swell approaching Oahu from the west of north will produce surf at Makaha. The north swell waves with periods of 10 to 16 seconds and height of 5 to 15 feet, break on the reef at Kepuhi Point to the north of Makaha sand channel. South swells, generated by southern hemisphere storms are most prevalent between April and October and are long, low waves and produces moderate at both the north and south ends of Makaha Beach. The long, low waves approach from the southeast to the southwest with periods of 12 to 20 seconds with deep water height of 1 to 6 feet.

Kona storms generated by intense winds with locate fronts or low pressure systems generated waves which have periods ranging from 6 to 10 seconds and heights up to 25 feet. These waves generally approach from the southwest.

Makaha appears to have a yearly cycle of longshore sand transport with sand moving from the north end of the beach toward the south during the winter periods of northwest swell and returning to the north end during the summer periods of south swell, possibly with little change in total sand volume. See Figure 5.

The intertidal habitat is primarily confined to a narrow raised bench along the western edge of the area. The bench supports a variety of algae including palahalaha (Ulva Fasciata), hulu'ilio (Grifford breviarticulata), Padina japonica, Ralfsia pangoensis, kala (Sargasum echinocarpum), Acanthophora spicifera and Galaxaura fastigiata. The mollusk, pipipi (Nerita picea) and the rock crab, "a'ama" (Grapsus tenuicrustatus) were also identified.

Offshore benthic habitats and fishery resources include the corals, Porites lobata, Pocillopora meandrina, Pavona varians, Montipora spp.: the aalgae, Halimeda opuntia, Padina sp., and approximately 64 fishes including (Myripristis marginatus), aweoaweo (Priacanthus spp.) and blueline snapper (Lutjanus rasmira). The Hawaiian humpback whale and the green sea turtle are also spotted offshore.

#### D. Public Facilities

There are water and electrical utilities located within the project site that serve the 1997 toilet facility. Overhead utility poles are located along Farrington Highway on across the beach park. The new Canoe Halau will be serviced by these existing utilities. Two separated toilet facilities, one on the *makai* side of the park and a 1997 toilet building on the *mauka* side, are already available to park users.

According to Department of Planning City & County of Honolulu, the Waianae Development Plan Public Facilities shows a symbol for publicly funded sewers system (Makaha Beach Trunk Sewer) within six years. This sewer system is along Farrington Highway that bisects the subject site.

#### E. Land Use Controls

##### State Land Use Map

The project site is zoned Urban by the State Land Use Map. (Figure 8).

##### Special Management Area

The project site is within the Special Management Area (SMA). (Figure 9). A SMA permit 97-336 was granted to the City & County of Honolulu Department of Parks & Recreation for the existing parking lot and toilet on December 3, 1997.

##### Land Use Approvals

The proposed project is zoned P-2 and also in partial A-1 zone. (Figure 10).

#### F. Park Use and Activities

Park use and activities is shown in Figure 1. Makaha Beach Park is a very popular beach for water related recreation such as swimming, diving, boogie boarding, body surfing, sunbathing, fishing (shore casting and netting, boating, canoe racing and big wave surfing. Several surf meets have attracted national television coverage. Makaha is also known to tourists for its natural beauty, pristine beach, clear water and rural setting.

A small picnic area with a play structure is located at the north end of the park. The north end of the beach is the safest area for young children to swim.

Beach attendance varies throughout the year, with December being the slowest month (1996-approximately 14,000 visitors) and February the busiest month (1996-approximately 51,500 visitors).

The site for the Canoe Halau is a presently under-utilized parking lot in the area least used for current recreational activities.

### G. Roads and Parking

Farrington Highway provides the only main access route to the west end of Oahu. It is a two-lane State Highway with a 22 feet pavement width, an 80 foot wide right-of-way and a posted speed limit of 35 mph through the park. The longer term Master Plan Figure 1 developed in 1997 considers a possible future relocation of Farrington Highway to create a larger unified beachfront park.

Traffic volumes are heaviest on the weekends and holidays and are increased during the peak surfing season running from January to June. In contrast most canoe activities occur in the summer months.

Crosswalks and bus stops are sporadically located along Farrington Highway. Crosswalks are proposed at Kili Drive and at the entrance of the existing parking lot. Existing Honolulu bound bus stop is located at the south end of the park. Bus drivers routinely stop right next to the toilet building on the *makai* side of the park. A Kaena Point bound bus stop was proposed in 1997 at the existing parking lot entrance.

Currently, parking by beachgoers normally occurs on the *makai* side of Farrington Highway. For the occasional surf meet when parking demand is heavy, the area set aside for canoe maneuvering can be used for automobiles if parking management is implemented.

On the weekends and during the peak surfing conditions, the highway frontage of Makaha Beach is typically filled with vehicles. This often creates a hazardous condition when vehicles back up into Farrington Highway. On a typical crowded day, it is estimated as much as 70 vehicles park in the frontage area.

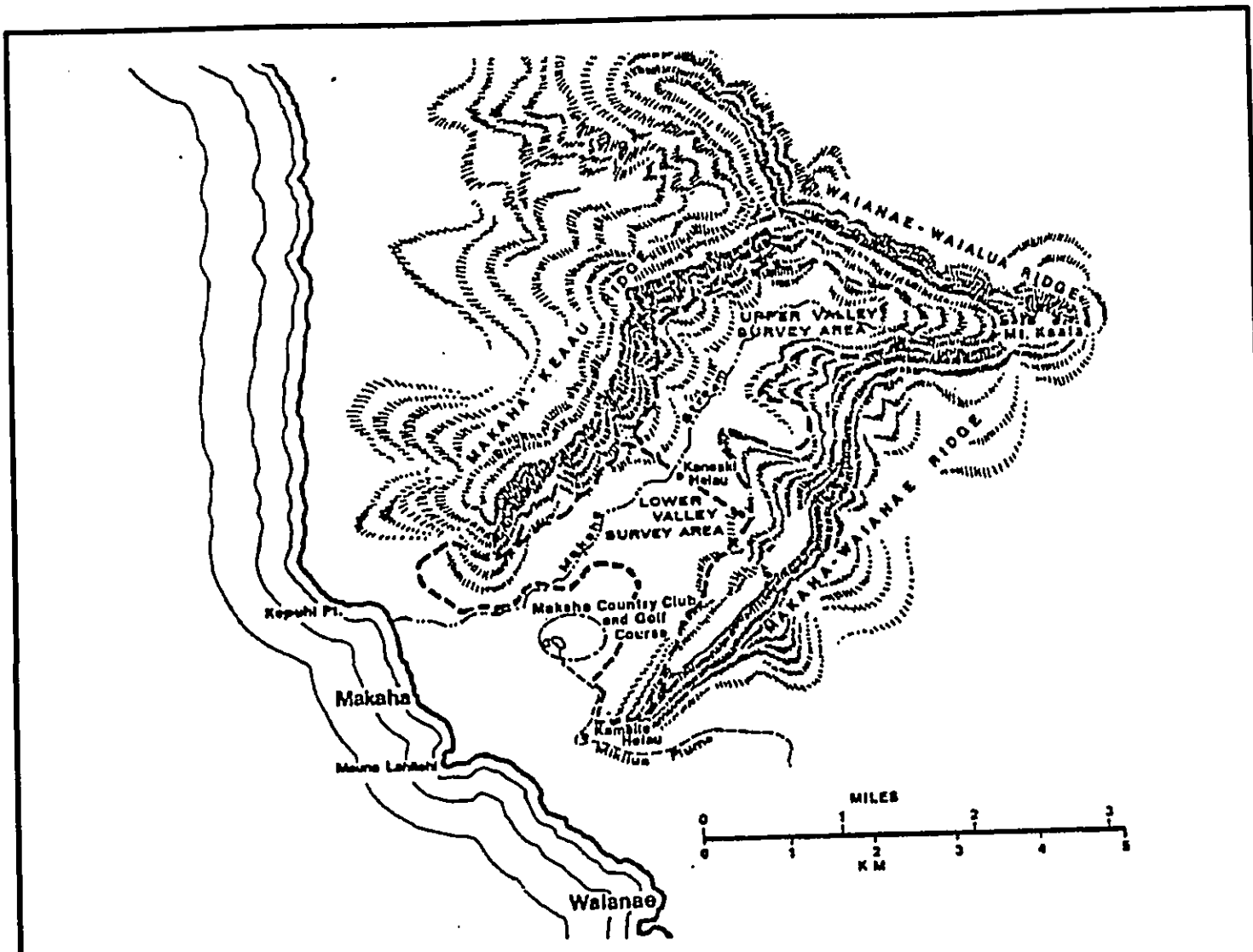
By locating the Canoe Halau within the existing parking lot, the design minimizes adverse impacts on traffic. The parking lot has an existing single ingress/egress control point resulting in less hazardous conditions and less traffic disruption on the highway than would a new canoe maneuvering driveway.

Canoes are planned to be trucked from the Canoe Halau to off-site racing season events and returned to the Canoe Halau by truck. During the summer racing season the canoes will be stored on the sandy beach itself. There will be no "hand carrying" of canoes across Farrington Highway.

Pedestrian traffic across Farrington Highway solely because of the Canoe Halau will be a rare event because city ordinance limits the canoe halau use to boat storage. Canoe Halau are not supposed to be used for social gatherings or boat repairs. Use is limited by ordinance to boat storage.

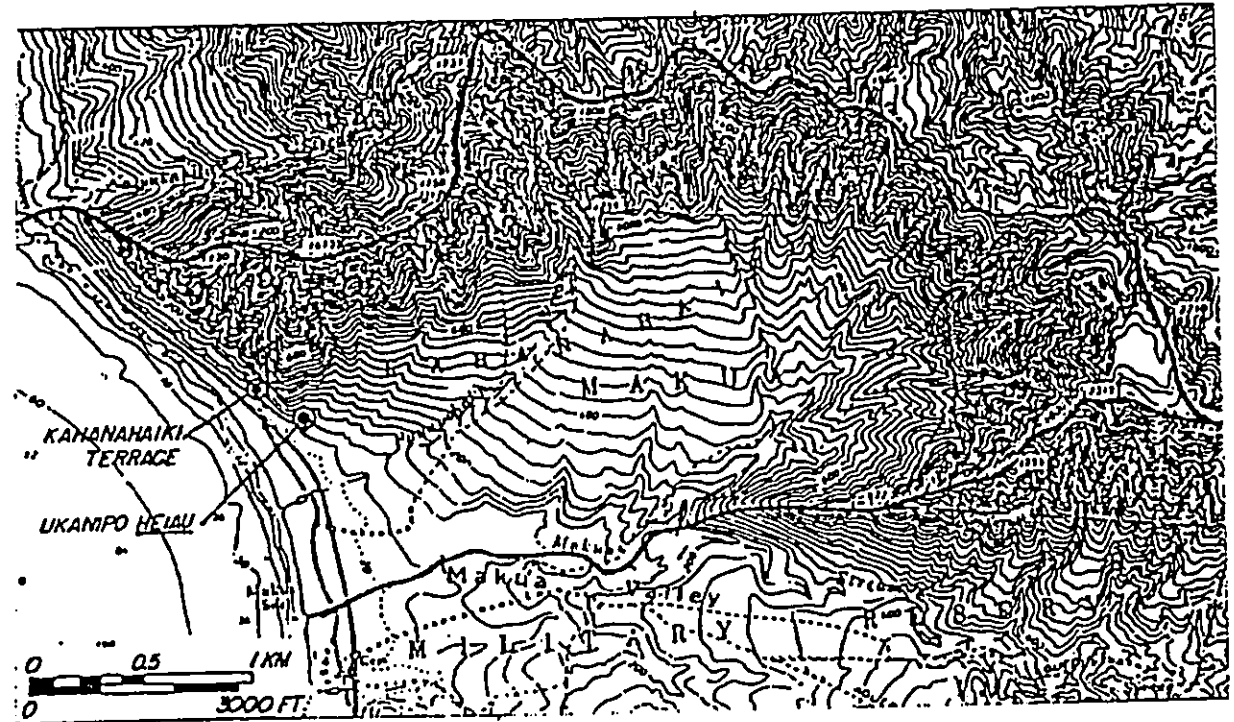
An existing fence along Farrington Highway limits pedestrian crossing to the area immediately in front of the existing toilet building. This design built in 1997 is considered to be a safety measure for pedestrians.





KANEAKI HEIAU LOCATION MAP

FIGURE 3



UKANIPO HEIAU LOCATION MAP

FIGURE 4

DOCUMENT CAPTURED AS RECEIVED

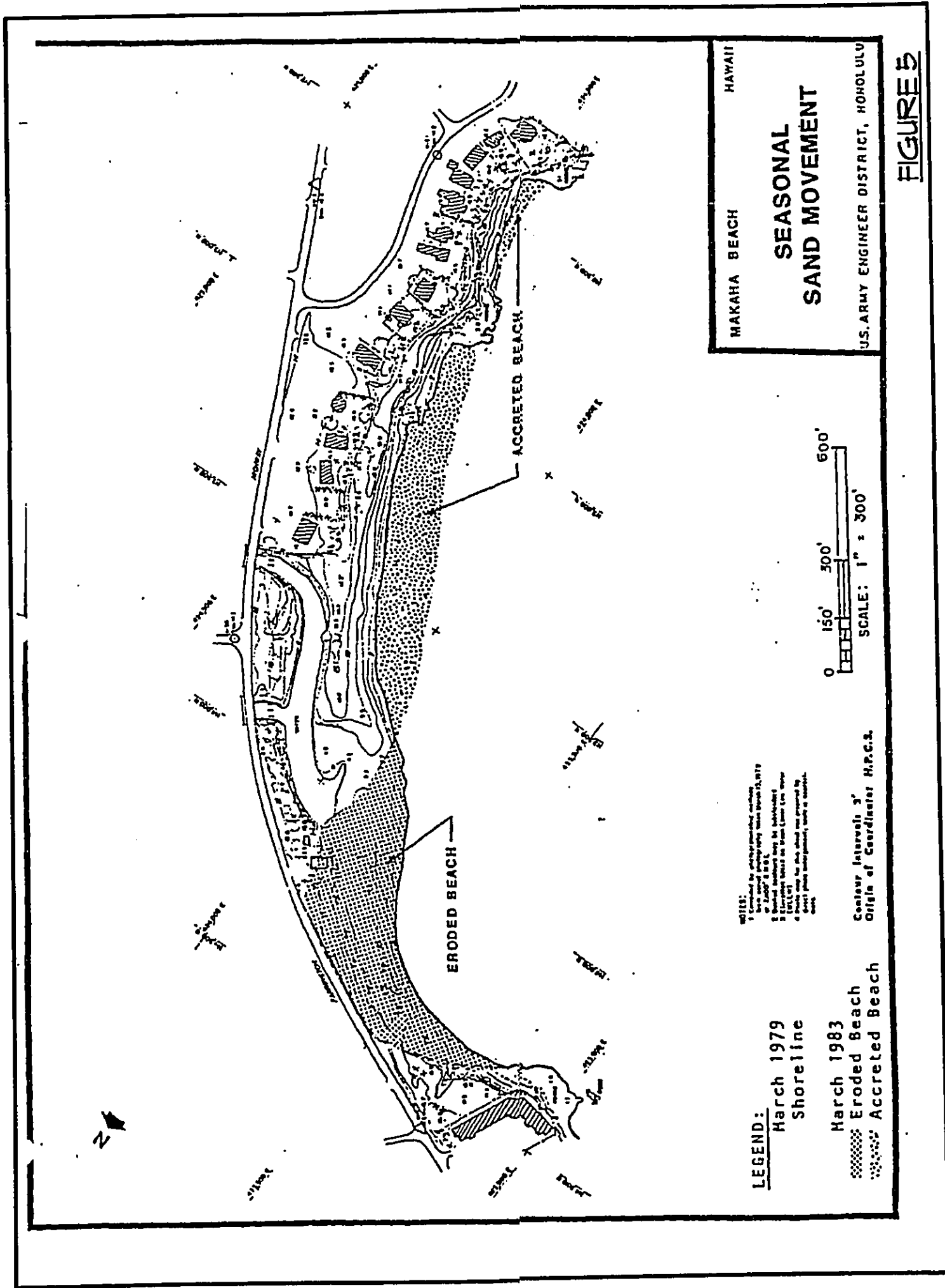


FIGURE 5

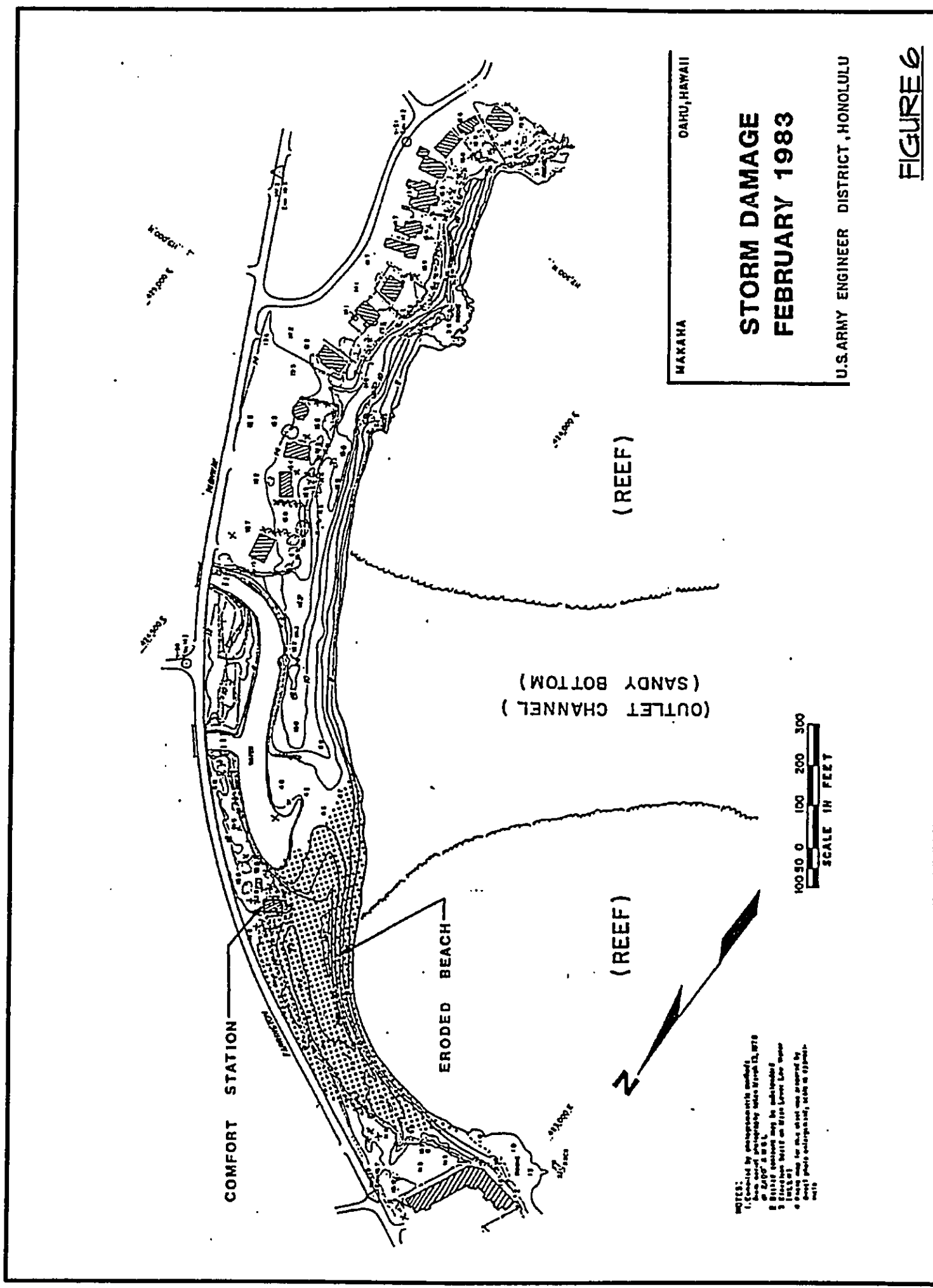


FIGURE 6

**SECTION 3            SUMMARY OF POTENTIAL ENVIRONMENTAL  
IMPACT AND MEASURES TO MITIGATE  
ADVERSE EFFECTS**

---

**A.     Description of Assessment**

The proposed Canoe Halau will not create any major adverse impact to the site and its surrounding environment for the following reasons:

**B.     Short Term Impacts**

From the description of the assessment, no major adverse environmental impacts are anticipated. The proposed project will create only minimal impacts to the site during the construction period, such as noise, dust and minor inconveniences that is expected at a normal construction site. The proposed construction will have no short-term impact on current Hawaiian cultural activities such as canoe paddling or surfing.

The temporary dust, noise and silting that will occur during construction will be controlled by application of appropriate pollution control measures.

Construction will comply with the following items recommended by the Department of Health:

Control of Fugitive Dust: Hawaii Administrative Rules, Chapter 11-60. 1, "Air Pollution Control," Section 11-60.1-33 on fugitive dust.

1.     Focusing on minimizing the amount of dust-generating materials and activities, centralizing on-site vehicular traffic routes, and locating potentially dusty equipment areas of least impact.
2.     Providing an adequate water source at the site prior to startup of construction activities.
3.     Landscaping and rapid covering of bare areas, including slopes, starting from initial grading phases.
4.     Controlling of dust from shoulders, project entrances and access roads.
5.     Provide adequate dust control measures during weekends, after hours and prior to daily startup of construction activities.
6.     Controlling of dust from vehicular hauling debris away from the project site.

### C. Long Term Impacts

The Canoe Halau should not have any adverse effects on the surrounding areas or community. It will not curtail or exclude existing use. The Canoe Halau will enhance recreation opportunities for residents of all ages by supporting current canoe paddling activities.

The Canoe Halau occupies the less-utilized *mauka* area of the park. If and when the Farrington Highway realignment occurs, the Canoe Halau will still be within the park boundary. The proposed location will place it conveniently adjacent to the future main entry driveway into the parking lot.

### D. Assessment on Cultural Impacts

The project is directly related to the support of Hawaiian canoe paddling. Therefore, the disconnection that often exists between a typical development proposal and culture practices is not the situation in this project. While canoe design, lore and techniques descend from ancient Hawaiian practices; Hawaiian canoe paddling is still a thriving and evolving cultural practice.

It must be noted that the current group of canoe halau being designed for the City & County of Honolulu are the successors to other canoe halau recently constructed with the advice of other Hawaiian canoe paddling practitioners.

Methods applied and results of consultation: Methods applied included discussion with practitioners of Hawaiian canoe paddling and other Waianae Hawaiian community leaders. These meetings took place in 2002 prior to designing the project. Other meetings with Makaha Canoe Club representatives were held to discuss details of the project design.

Methods adopted by the preparer: Methods adopted included community meetings previously discussed and researching written materials on Hawaiian canoes, canoe paddling, and Hawaiian architecture of canoe halau.

Interview procedures including circumstances: The interviews were group activities mostly held in the Waianae area. One group interview and discussion with the Makaha Canoe Club and interested persons was held on the actual beach site. Club members of various ages, gender, and organizational status were present and participated in the discussion.

Biography of individuals and organizations with particular expertise: Information is recorded in community meeting notes. Chief source of information has been the Makaha Canoe Club and representatives of other Waianae Coast canoe clubs.

Historical and cultural source materials: See Section 7 References.

Cultural resources, practices and beliefs identified; their location within the broad geographical area in which the proposed action is located; as well as their direct or indirect significance or connection to the project site: The Waianae Coast is a refuge for traditional Hawaiian cultural resources, practices, and beliefs due to its relatively light level of development, its relative isolation, its deep valleys, and its high percentage of persons with some Hawaiian ancestry – a percentage that is growing due to new Hawaiian Home Lands residential development. There is a strong connection to ocean related recreation by many residents of the Waianae Coast. The specific project site is among the world's most famous surfing beaches. The impact of the actual construction upon the beach front has been minimized by locating the building on the *mauka* side of the highway.

Nature of the cultural practices, beliefs and cultural resources affected by the project: The greatest effect of the project is upon the cultural practice of canoe paddling. The project has no effect upon the cultural practice of surfing due to its location away from Makaha Beach. During the interview/meeting process, there was no indication from community participants that any other cultural practices, beliefs and resources will be affected by the project.

Explanation of confidential information withheld from public disclosure: Confidentiality was not a concern during the consultation process. Instead, the prevailing spirit was that of sharing knowledge and experience to develop a practical project to support the cultural practice of canoe paddling.

Any conflicting information: Initial discussions sometimes wavered on the actual use of the canoe halau – with a minority initially favoring, in the spirit of sharing, extended use for hula and other practices. Ultimately, it was decided that canoe halau are only for canoe storage.

Potential effect of any proposed physical alteration that might result in isolation of cultural resources, practices, or beliefs. Potential for introducing elements that may alter the setting in which cultural practices take place: The relatively small size of the project, which is an accessory building to the existing Makaha Beach Park, has small effect on the overall physical setting. The intentional use of ancient Hawaiian architectural form for this ancient building type may be considered a beneficial alteration of the park setting. The ocean front will not be altered because the building is on the *mauka* side of Farrington Highway.

Bibliography of references and records of interviews: See Section 7 References.

## **E. Traffic Impact**

In the long term, traffic patterns will change at Makaha Beach Park. New Parking areas shown in Figure 1 will be provided for visitors to park. During surfing season and competition events, parking will be in high demand. The 1997 Park Master Plan Figure 1 shows a vacant area located at the corner of Kili Drive and Farrington Highway that is planned as an overflow parking area.

During popular surfing meets or community events, traffic monitors may be required of the meet sponsors by the Department of Parks and Recreation to control ingress and egress from the new parking areas. Some parking spaces lost to the Canoe Halau may be regained during events by parking in the canoe maneuvering area using permits issued to event organizers or meet officials.

A bus line runs on Farrington Highway with a Honolulu bound stop at the south end of the park. A Kaena bound stop is proposed at the north end of the park to encourage an alternative mode of transportation. Currently the park is served by large articulated buses.

Beach users may continue to use the right of way along Farrington Highway for parking. The new parking areas in Figure 1 will help alleviate the parking along the highway.

The following are several alternatives to facilitate the safe crossing of Farrington Highway recommended in the 1997 Environmental Assessment:

1. Provide a marked crosswalk adjacent to the future parking lot driveway and Kili Drive for safe crossing.
2. Designating the area in which pedestrians are expected to cross, thereby reducing the possible locations of pedestrian-vehicle conflict and providing a clear indication for drivers that pedestrians crossing can be expected.
3. Provide warning signs to supplement markings to improve the visibility of crosswalks.
4. Designate areas to prohibit parking to maintain sight light lines and conflicts between pedestrians and vehicles - implemented where necessary.
5. Provide a fence fronting the 1997 comfort station to direct pedestrians to use the crosswalk. This has been implemented.

## SECTION 4      ALTERNATIVES TO THE PROPOSED ACTION

---

### Alternate Oceanfront Location for Canoe Halau

When project planning began for the Canoe Halau the site selected by the Community Vision Team was on the *makai* side of Farrington Highway. That site is designated as "Alternate Oceanfront Site for Canoe Halau" shown on Figure 1. That alternate site is designated for canoe usage in the 1997 park master plan.

As part of locating the Canoe Halau, the project architects overlaid the Storm Damage of 1983 Map Figure 6 and the Seasonal Sand Movement Map Figure 5. A shore line survey was also conducted by a licensed land surveyor. When a location outside all of these constraints was found, the project architects had this site explored for geological features to support foundations for a permanent canoe halau.

Geological subsurface exploration was done by drilling 50 feet down into the beach. No earth material other than beach sand was found. This meant that an extensive heavy concrete foundation, such as 4-foot diameter concrete piers, would be required to prevent a canoe halau from being washed away by heavy storm wave scouring.

In addition to foundation challenges, the alternate oceanfront site presented traffic problems. Like many beach parks on Oahu, the Makaha Park road shoulder used for casual parking and canoe maneuvering is actually the road shoulder of the state highway. The canoe maneuvering space, comprised of a pick-up truck and canoe trailer totaling about 80 feet long, required that size of setback from the state highway. This placed the canoe halau rather deep into the beach area – using ocean front recreation space for what is actually limited to being a storage building by city ordinance. Thus the actual beach area impacted by a typical canoe halau is more than twice as much as the building footprint.

The ocean front site also blocked some views of Makaha Beach and Pacific Ocean from Farrington Highway. The only other *makai* site not vulnerable to seasonal sand movement is on the north end of the park next to the Makaha Shore Condominium. This small area is already devoted to passive recreation such as picnics and playground equipment. A canoe halau in this location would also block ocean views from neighboring properties.

### Recommended Canoe Halau Location

Foundation problems and traffic considerations led the design team and the Department of Design & Construction to consider a site on the *mauka* side of Farrington Highway. This *mauka* site has a new toilet built in 1997 to replace the storm-damaged toilet on the *makai* side of the highway. A large under-utilized parking lot was large enough to contain the canoe halau and still provide overflow beach parking.



The site had the advantage of higher ground elevation away from seasonally shifting sands. The site had the advantage of not blocking views of the ocean from Farrington Highway. The site already had a two-lane driveway approved by the State of Hawaii Department of Transportation for perpendicular connection to Farrington Highway. This is the recommended site for the Canoe Halau. See Figure 1.

#### **No Action Alternative**

The **No Action** alternative is the only reasonable alternative to the proposed action. A no action alternative would leave the canoes vulnerable to sun damage and possible vandalism because no secure storage would be regularly available during the canoe paddling off-season. The relatively small size of Makaha beach front that is not vulnerable to seasonal shifting sands or already devoted to passive recreation lacks sufficient area to store 18 canoes on a year round basis.

**SECTION 5      AGENCIES AND ORGANIZATIONS TO BE  
CONSULTED DURING THE ENVIRONMENTAL  
ASSESSMENT PROCESS**

---

Federal

United States Army Corps of Engineers  
United States Department of Commerce  
(National Marine Fisheries Services)  
United States Fish and Wild Life  
United States Department of Transportation  
(Federal Aviation Administration)

State of Hawaii

Department of Accounting & General Services  
(Planning Branch)  
Office of Environmental Quality Control  
Department of Agriculture  
Department of Business, Economic Development & Tourism  
State Historic Preservation Division -DLNR  
Department of Health (DOH)  
DOH Environmental Management Division  
Office of State Planning  
Office of Hawaiian Affairs  
State of Hawaii Department of Transportation  
University of Hawaii Water Resource Research Center  
University of Hawaii Environmental Center

City & County of Honolulu

Board of Water Supply  
Department of Planning & Permitting  
Department of Parks & Recreation  
Department of Transportation Services  
DPR Ocean Safety Division  
Waianae Neighborhood Board

Private

AT&T Substation Makaha  
Makaha Shores Condominium Association  
Makaha Canoe Club

## SECTION 6

## DETERMINATION OF SIGNIFICANCE

---

Chapter 200 (Environmental Impact Statement Rules) of title 11, Administrative Rules of the State Department of Health, establishes criteria for determining whether an action may have significant effects on the environment (11-200-12). The relationship of the proposed Canoe Halau to these criteria is discussed below.

1. *Would the proposed action result in... irrevocable commitment to loss or destruction of any natural or cultural resources?*

No irrevocable commitment to loss or destruction of any natural or cultural resources would result. Most of the surface area of the Canoe Halau site has had its land surface excavated to construct the existing parking lot. The proposed landscaping is largely indigenous Hawaiian or Polynesian introduced vegetation designed to enhance natural resources. As an important enhancement for Hawaiian canoe paddling, the project will support cultural activities.

2. *Would the proposed action curtail the range of beneficial uses of the environment?*

The proposed action would not curtail the range of beneficial uses of the environment. The Canoe Halau enhances recreational opportunities and will serve the local and island wide communities of Oahu.

3. *Would the proposed action conflict with the state's long term environmental policies or goals or guidelines?*

The proposed action would not conflict with the state's long term environmental policies and guidelines are set forth in Chapter 344, Hawaii Revised Statutes, "State Environmental Policy." Two broad policies are espoused:

- a. Conservation of Natural Resources
- b. Enhancement of Quality of Life

The Canoe Halau conforms to these two broad policies. It enhances and expands the park facilities, while it avoids disruption of the park's natural resources.

4. *Does the proposed action substantially affect the economic or social welfare of the community or state?*

The proposed action's effects on the economic and social welfare of the community will be positive in nature. The proposed plan will provide short-term employment opportunities for the construction trades during

implementation of the plan. The community will benefit from enhanced recreational opportunities.

The existing parking lot proposed as the Canoe Halau site is already entirely fenced for closure during park curfew hours to minimize crime opportunities.

5. *Does the proposed action substantially affect public health?*

No, the proposed action does not adversely affect public health. Noise, dust and minor inconveniences are expected during normal construction operations. Construction will comply with all guidelines recommended by the State of Hawaii Department of Health.

6. *Are substantial secondary impacts, such as population change or effects on public facilities anticipated?*

No significant secondary impacts on public facilities are anticipated. The Canoe Halau is a storage building for existing canoes. The Canoe Halau is an enhancement and not an expansion of current activities.

7. *Is substantial degradation of the environment quality anticipated?*

No substantial degradation of environmental quality is anticipated. The Canoe Halau will be located away from beach areas prone to seasonal high waves, shifting sands, and storm damage as shown in Figure 6.

The higher architectural roof forms, shown in Figure 13, associated with traditional Hawaiian canoe halau are placed against the high backdrop of the Waianae mountains instead of blocking ocean views.

8. *Is the proposed action individually limited, but involves a commitment to larger actions, or would cumulative impacts result in considerable effects on the environment?*

The proposed action does not involve a commitment to larger actions. The proposed Canoe Halau can exist with or without Farrington Highway being realigned inland. The cumulative impacts will not result in considerable effects on the environment. The Canoe Halau is considered an enhancement to existing canoe activities and not an expansion of activities.

9. *Are rare, threatened or endangered species or their habitats affected?*

The existing site is mostly a parking lot. There are no naturally occurring indigenous or protected plant species at the existing project site. No rare, threatened or endangered species or their habitats will be substantially affected by the proposed improvements since construction with a barrier and adjacent areas distributed by construction will be landscaped and

maintained. Existing *wiliwili* (*Erythrina sandwicensis*) in the parking lot landscaping will be relocated to other park areas during construction. Additional *wiliwili* trees will be planted as final landscaping. See Figure 12.

10. *Are air quality, water or ambient noise levels detrimentally affected?*

The proposed project will create only minimal impact to the site during construction period. Noise, some dust and minor inconveniences that a normal construction site create is expected, this may be controlled by application of appropriate pollution control measures such as blanketing the construction area. Construction activities will comply with provisions of Hawaii Administrative Rules, Chapter 11-60.1, "Air Pollution Control," Section 11-60-33 on Fugitive Dust and Chapter 11-46, "Community Noise Control." The completed Canoe Halau will not affect air quality, water quality, or ambient noise. City ordinance limits canoe halau use to boat storage.

11. *Would the project affect environmentally sensitive areas, such as flood plains, tsunami zones, erosion-prone areas, geological hazardous land, estuaries, fresh water or coastal water?*

No environmentally sensitive areas will be affected. Wetlands, identified and confirmed by the Department of Army U.S. Army Engineer District, are in proximity to this project but will not be affected.

The proposed Canoe Halau site is located within the Special Management Area (SMA Figure 9) and in Flood Zones A (no base flood elevations determined), AE (base flood elevations determined) and VE (coastal flood with velocity hazard, wave hazard and base flood elevations determined).

The Canoe Halau will be located on higher grounds on the mountain side of Farrington Highway from the beach to avoid the hazards of Figures 5 and 6. This *mauka* side site with a higher elevation was finally selected to avoid the environmentally sensitive areas cited above.

12. *Does the proposed action substantially affect scenic vistas and view planes identified in county or state plans or studies?*

Locating the Canoe Halau against a backdrop of high mountains affects scenic vistas much less than the original ocean front location would have. The indigenous Hawaiian architecture reference makes the project appear more suitable for the rural Waianae Coast.

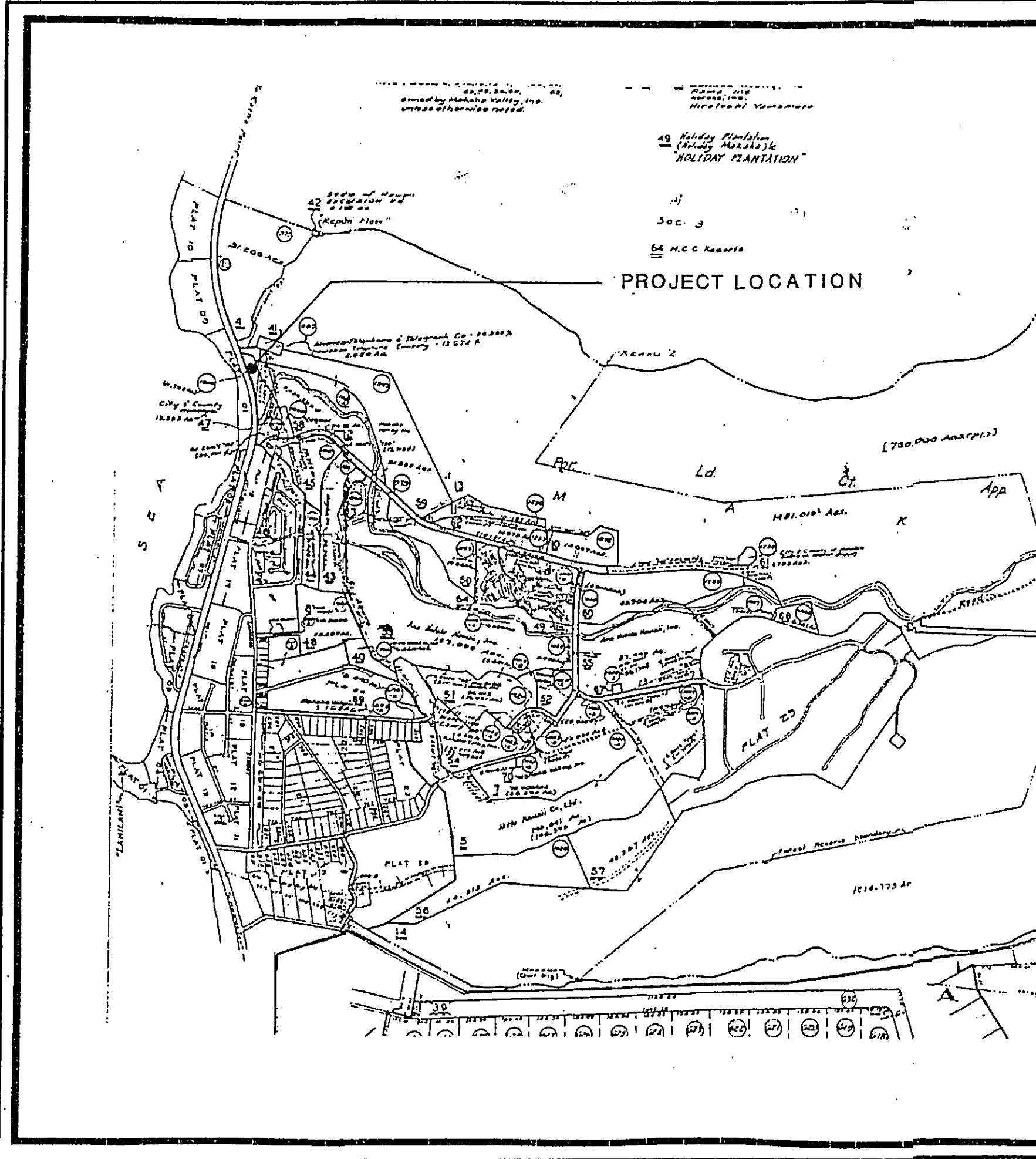
13. *Does the proposed action require substantial energy consumption?*

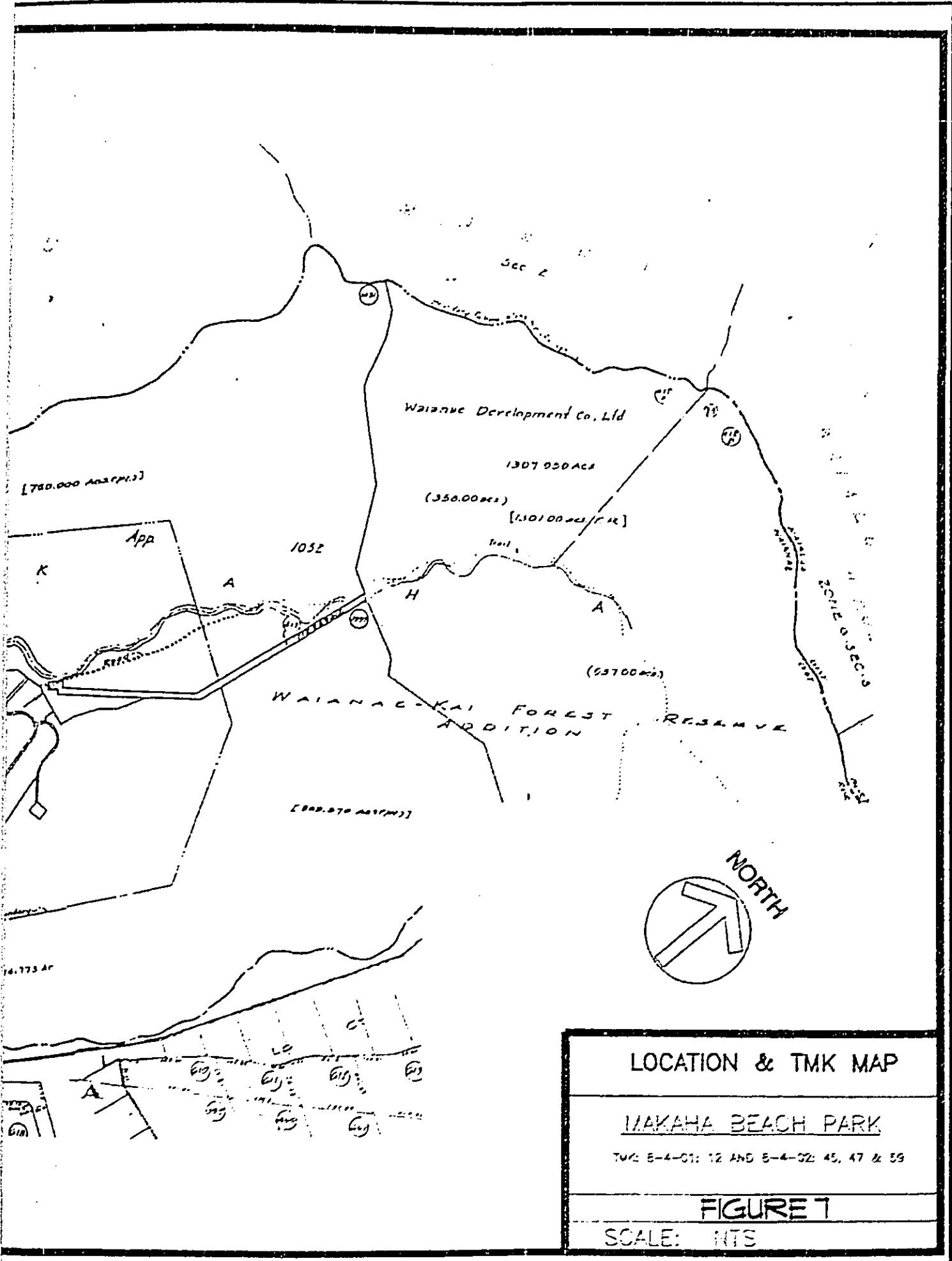
The Canoe Halau is naturally ventilated and requires no substantial energy consumption.

## SECTION 7 REFERENCES

---

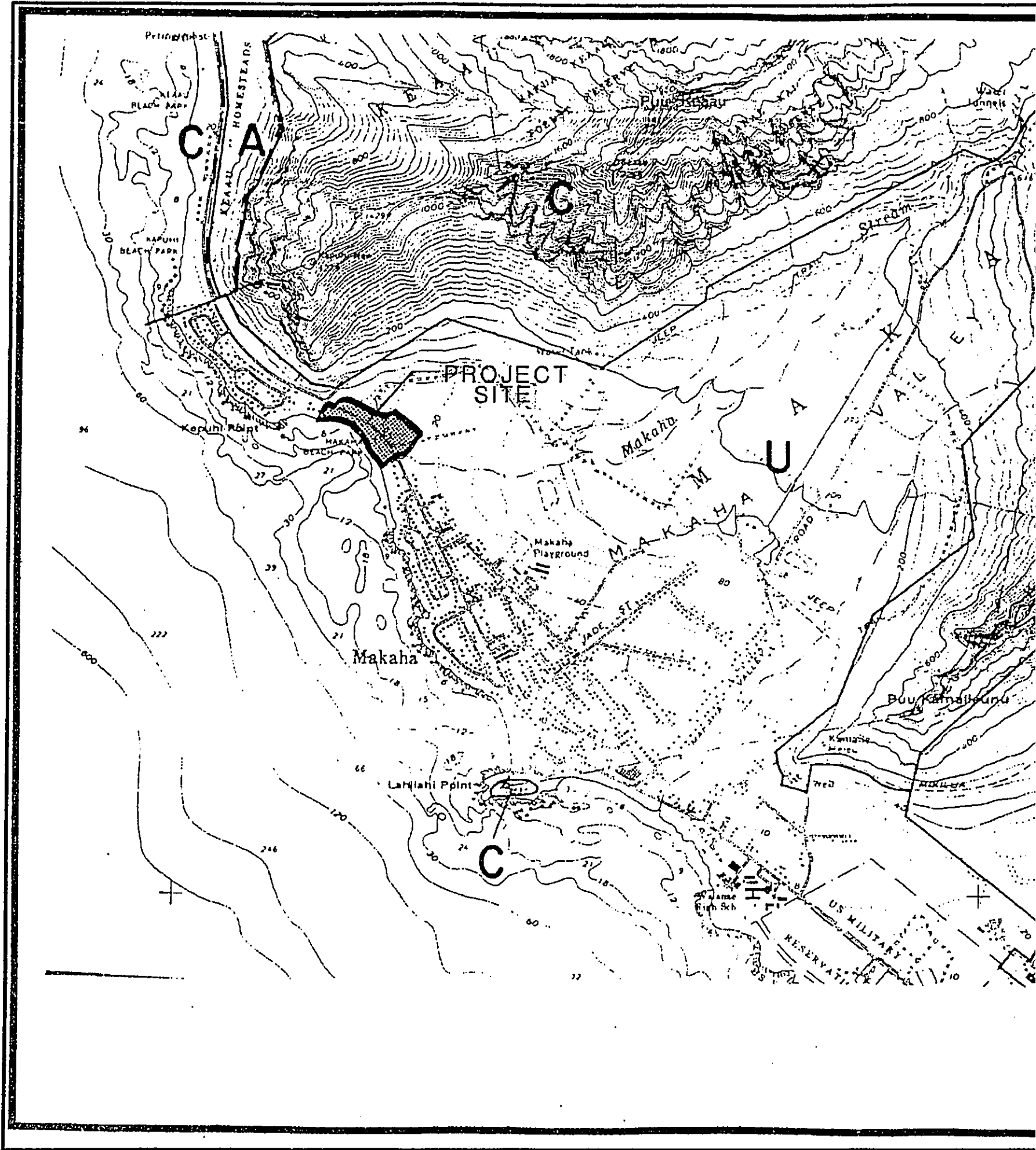
- Cleghorn, Paul. *The Results of An Archaeological Inventory Survey in Coastal Makaha, Waianae, Oahu, Hawaii*. prepared for the City & County of Honolulu Department of Parks & Recreation, September 1997.
- Feher, Joseph. Joesting, Edward. Bushnell, O.A. *Hawaii : A Pictorial History* (Bernice Pauahi Bishop Museum Special Publication 58) Honolulu: Bishop Museum Press, 1969.
- Hagmann, Marnie. *Hawaii Parklands* Helena: Falcon Press, 1981.
- Holmes, Tommy. *The Hawaiian Canoe* Honolulu: Editions Unlimited, 1981, 1993.
- Kamakau, Samuel. *The Works of the People of Old* (Bernice Pauahi Bishop Museum Special Publication 61) Honolulu: Bishop Museum Press, 1976.
- Kane, Herb Kawanui. *Ancient Hawaii Captain Cook*: Kawanui Press, 1997.
- Makaha Canoe Club Meeting Notes. June 4, 2002 meeting. September 17, 2002 meeting. Other meetings held May 2, 2002 and May 29, 2002 with representatives from several Waianae Coast canoe clubs.
- Malo, David *Mo'olelo Hawai'i* (Bernice Pauahi Bishop Museum Special Publication 2) Honolulu: Bishop Museum Press, 1951.
- Mitchell, Donald D. Kilolani. *Resource Units in Hawaiian Culture* Honolulu: Kamehameha Schools Press, 1992 edition.
- Pacific Architects Inc. *Makaha Beach Park Master Plan Final Environmental Assessment* prepared for the City & County of Honolulu Department of Parks & Recreation August 1997. Includes Traffic Assessment Report.
- Pukui, Mary Kawena. Elbert, Samuel H. Mookini, Esther. *Place Names of Hawaii* Honolulu: University of Hawaii Press, 1984 edition.
- Te Rangi Hiroa (Peter H. Buck) *Arts and Crafts of Hawaii – Section II Houses* (Bernice Pauahi Bishop Museum Special Publication 45) Honolulu: Bishop Museum Press, 1964.
- Waianae Coast Visioning Team #16 meeting notes, November 21, 2002.



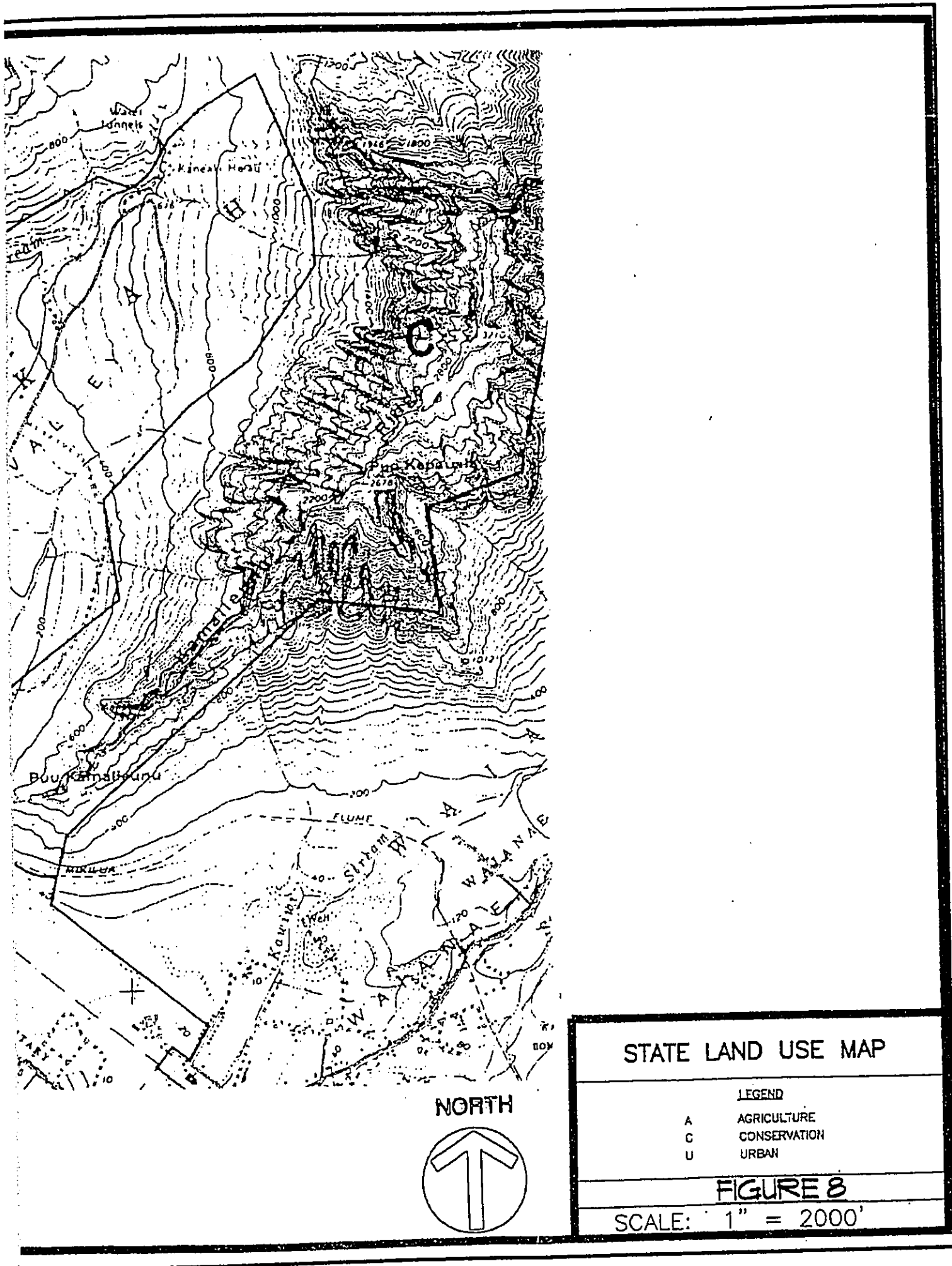




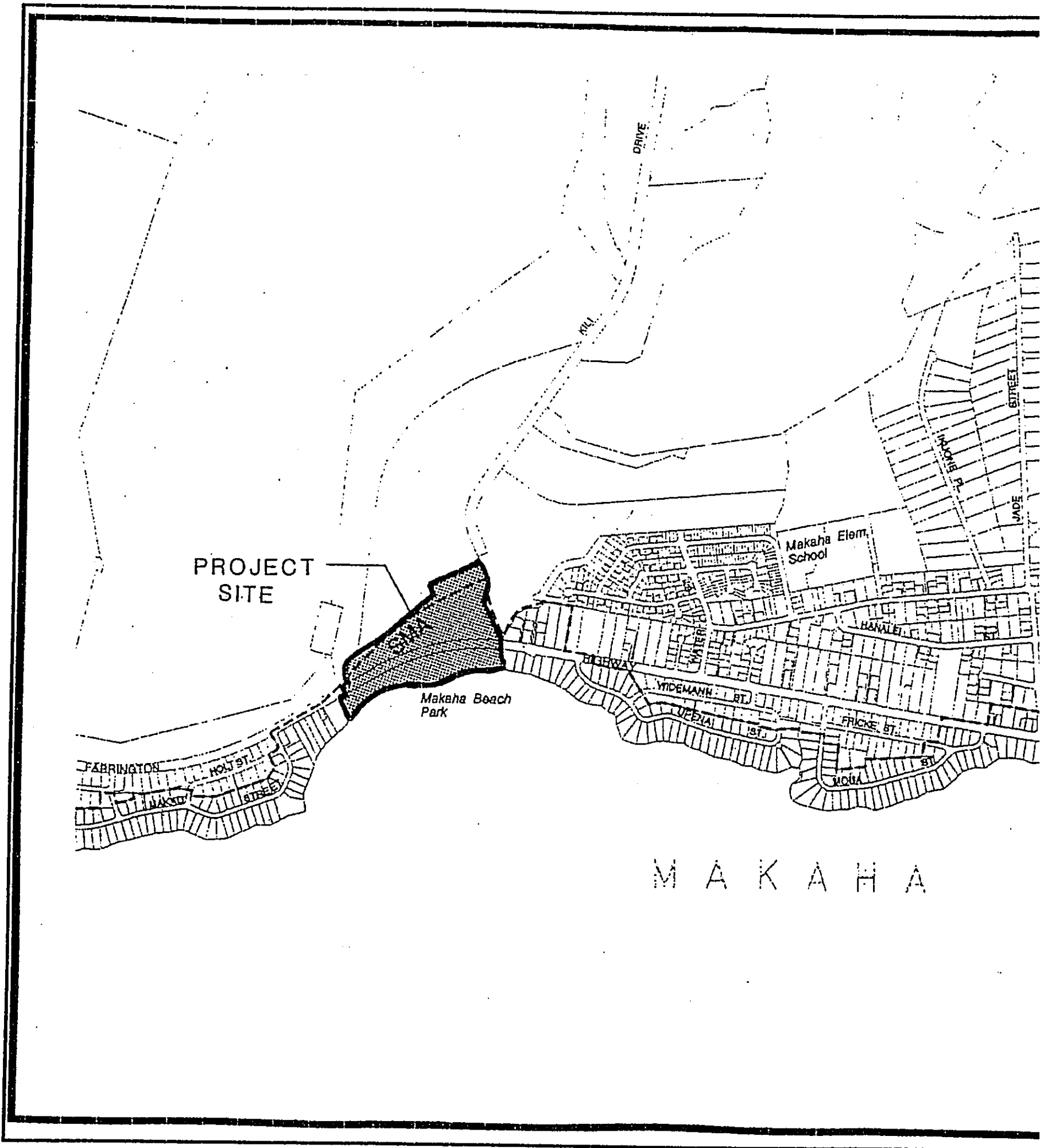
DOCUMENT CAPTURED AS RECEIVED



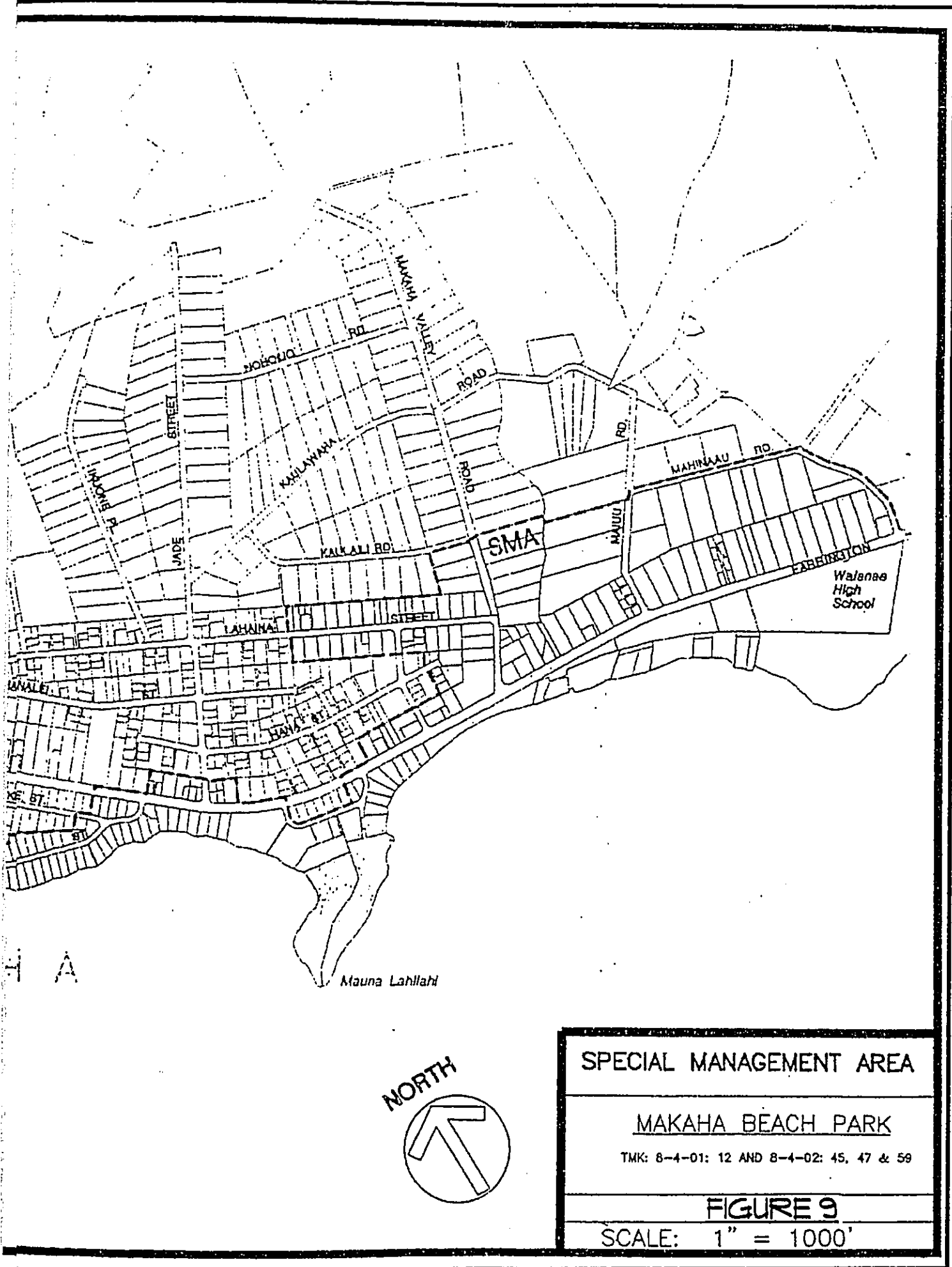
DOCUMENT CAPTURED AS RECEIVED



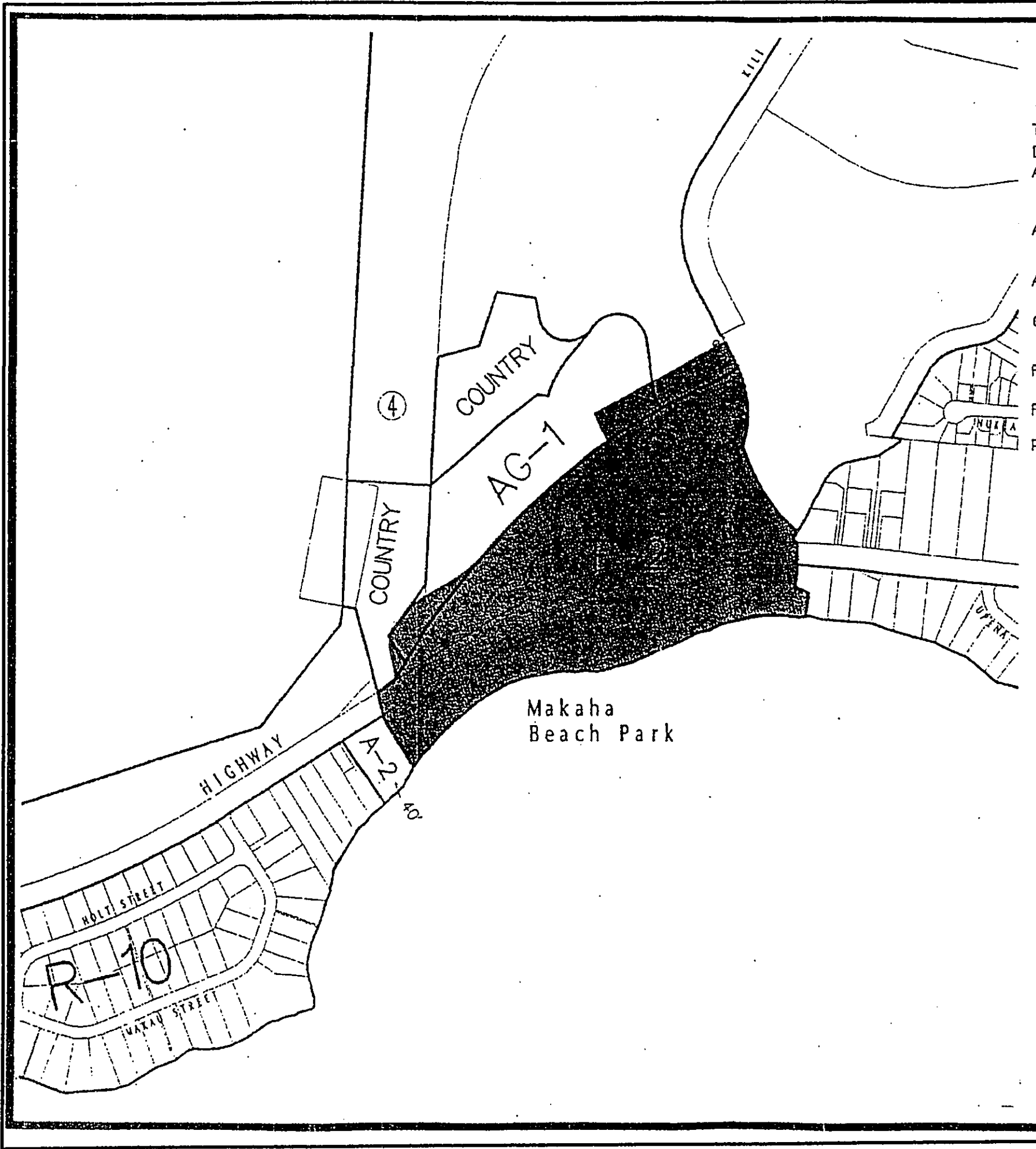
DOCUMENT CAPTURED AS RECEIVED



DOCUMENT CAPTURED AS RECEIVED



DOCUMENT CAPTURED AS RECEIVED

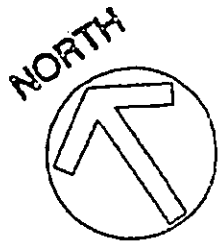
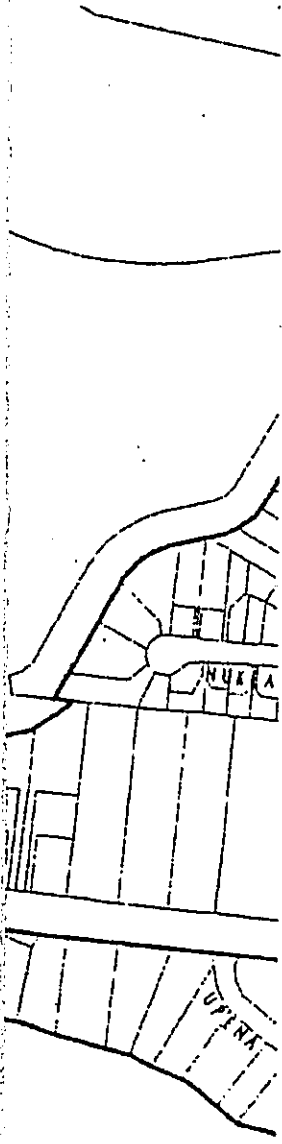


**DOCUMENT CAPTURED AS RECEIVED**

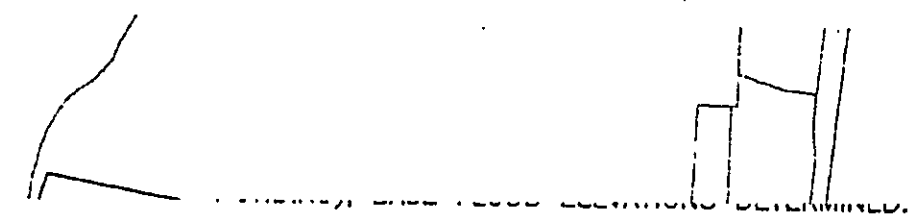
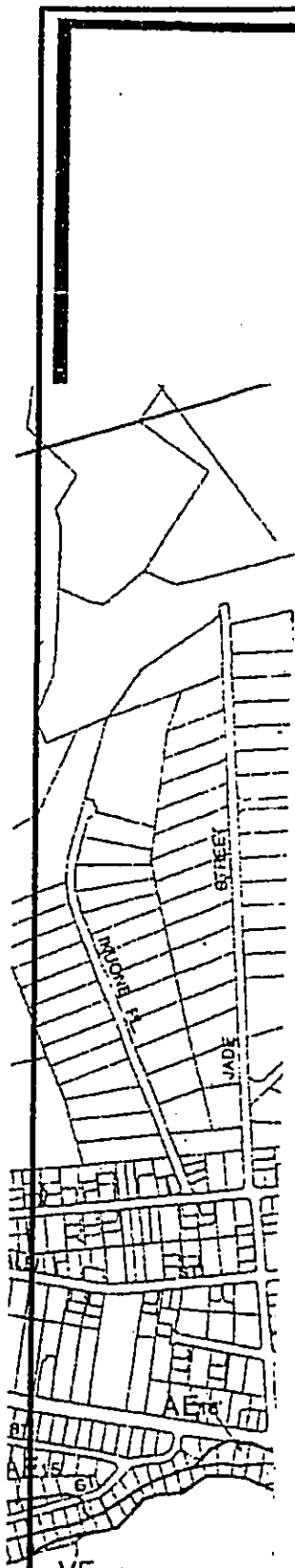
LEGEND

THE FOLLOWING IS A SUMMARY FROM LAND USE ORDINANCE  
DEPARTMENT OF LAND UTILIZATION, CITY & COUNTY OF HONOLULU  
AUGUST 1993

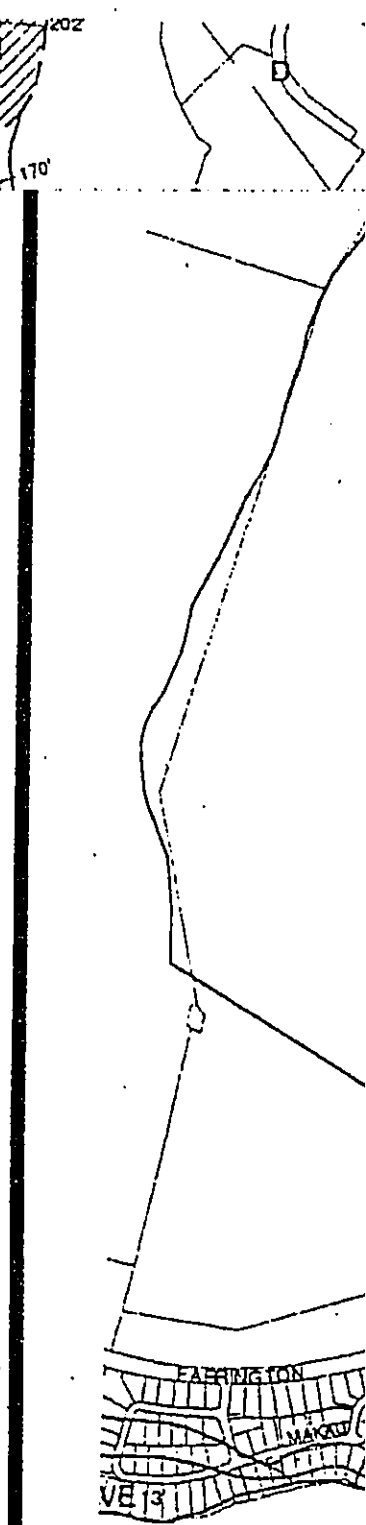
- AG-1      AGRICULTURAL LAND MORE THAN 5 ACRES IN SIZE
- AG-2      AGRICULTURAL LAND LESS THAN 5 ACRES IN SIZE
- COUNTRY      AGRICULTURAL ACTIVITIES WITH OPEN SPACE AND  
RURAL QUALITY OF AGRICULTURAL LANDS IS DESIRED
- R-5      RESIDENTIAL DISTRICT WITH AREAS FOR URBAN DEVELOPMENT
- R-10      RESIDENTIAL DISTRICT AREAS WITH LARGE DEVELOPMENTS
- P-2      PRESERVATION DISTRICT TO PRESERVE AND MANAGE MAJOR  
OPEN SPACE AND RECREATION LANDS AND LANDS OF SCENIC  
AND OTHER NATURAL RESOURCE VALUE



ZONING MAP
<u>MAKAHA BEACH PARK</u>
TMK: 8-4-01: 12 AND 8-4-02: 45, 47 & 59
FIGURE 10
SCALE: 1" = 400'



- ZONE AO FLOOD DEPTHS 1 TO 3 FEET (USUALLY SHEET FLOW ON SLOPING TERRAIN); AVERAGE DEPTHS DETERMINED. FOR AREAS OF ALLUVIAL FAN FLOODING VELOCITIES ALSO DETERMINED.
- ZONE A99 TO BE PROTECTED FROM 100 YEAR FLOOD BY FEDERAL FLOOD PROTECTION SYSTEM UNDER CONSTRUCTION; NO BASE ELEVATION DETERMINED.
- ZONE V COASTAL FLOOD WITH VELOCITY HAZARD (WAVE FEDERAL FLOOD PROTECTION SYSTEM UNDER CONSTRUCTION; NO BASE ELEVATION DETERMINED.
- ZONE VE COASTAL FLOOD WITH VELOCITY HAZARD (WAVE ACTION); BASE FLOOD ELEVATIONS DETERMINED.
- FLOODWAY AREAS IN ZONE AE
- OTHER FLOOD AREAS
- ZONE X AREAS OF 500 YEAR FLOOD; AREAS OF 100-YEAR FLOOD WITH AVERAGE DEPTHS OF LESS THAN .1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 100-YEAR FLOOD.
- OTHER AREAS
- ZONE X AREAS DETERMINED TO BE OUTSIDE 500-YEAR FLOOD PLAIN.
- ZONE D AREAS IN WHICH FLOOD HAZARDS ARE UNDETERMINED.



VE 15'  
A



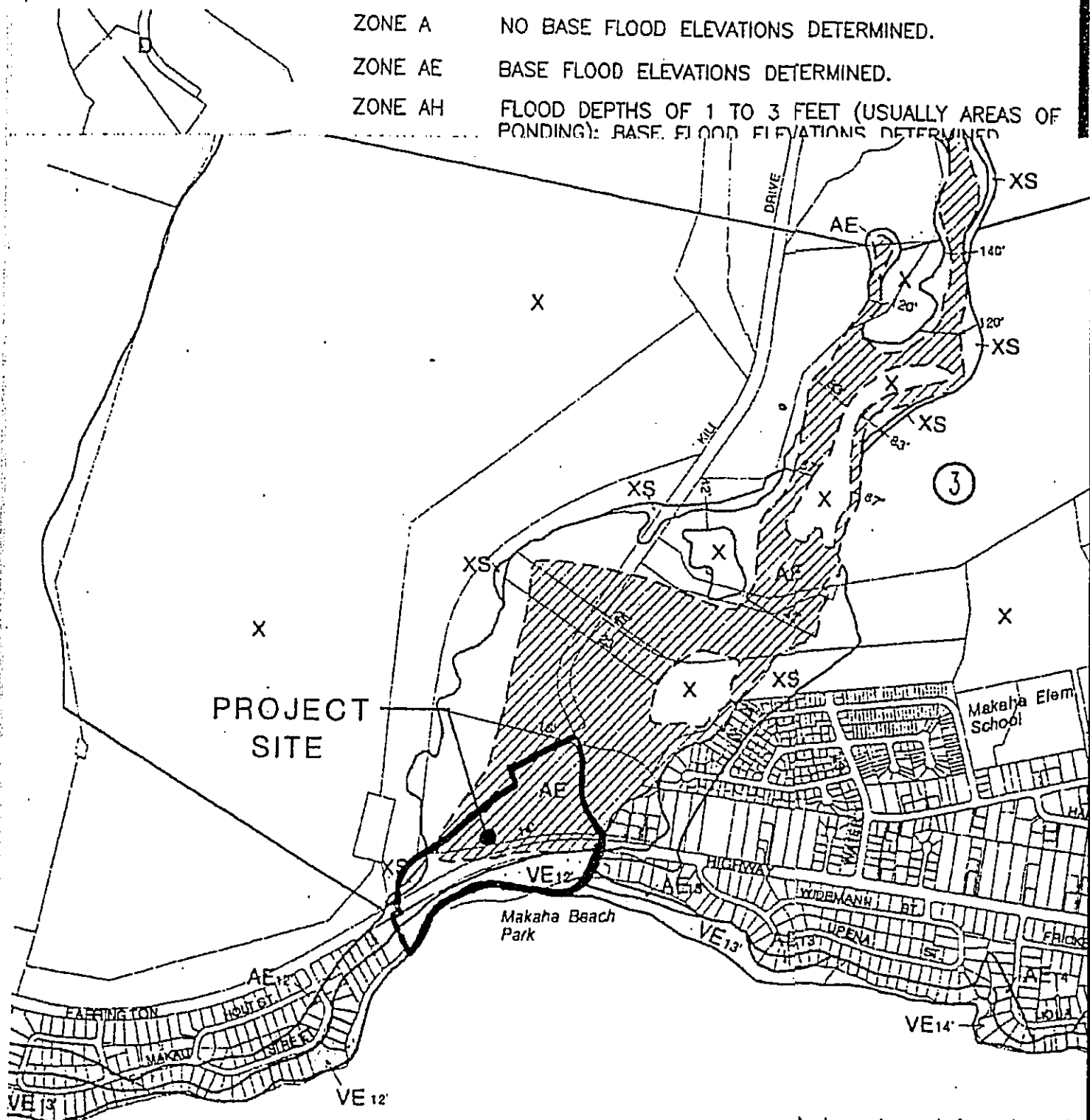
<b>FLOOD ZONE MAP</b>
<b>MAKAHA BEACH PARK</b>
TMK: 8-4-01: 12 AND 8-4-02: 45, 47 & 59
SCALE: 1" = 1000'

**DOCUMENT CAPTURED AS RECEIVED**

**LEGEND**

SPECIAL FLOOD HAZARD AREAS INUNDATED BY 100-YEAR FLOOD

- ZONE A NO BASE FLOOD ELEVATIONS DETERMINED.
- ZONE AE BASE FLOOD ELEVATIONS DETERMINED.
- ZONE AH FLOOD DEPTHS OF 1 TO 3 FEET (USUALLY AREAS OF PONDING); BASE FLOOD ELEVATIONS DETERMINED



M A K A H

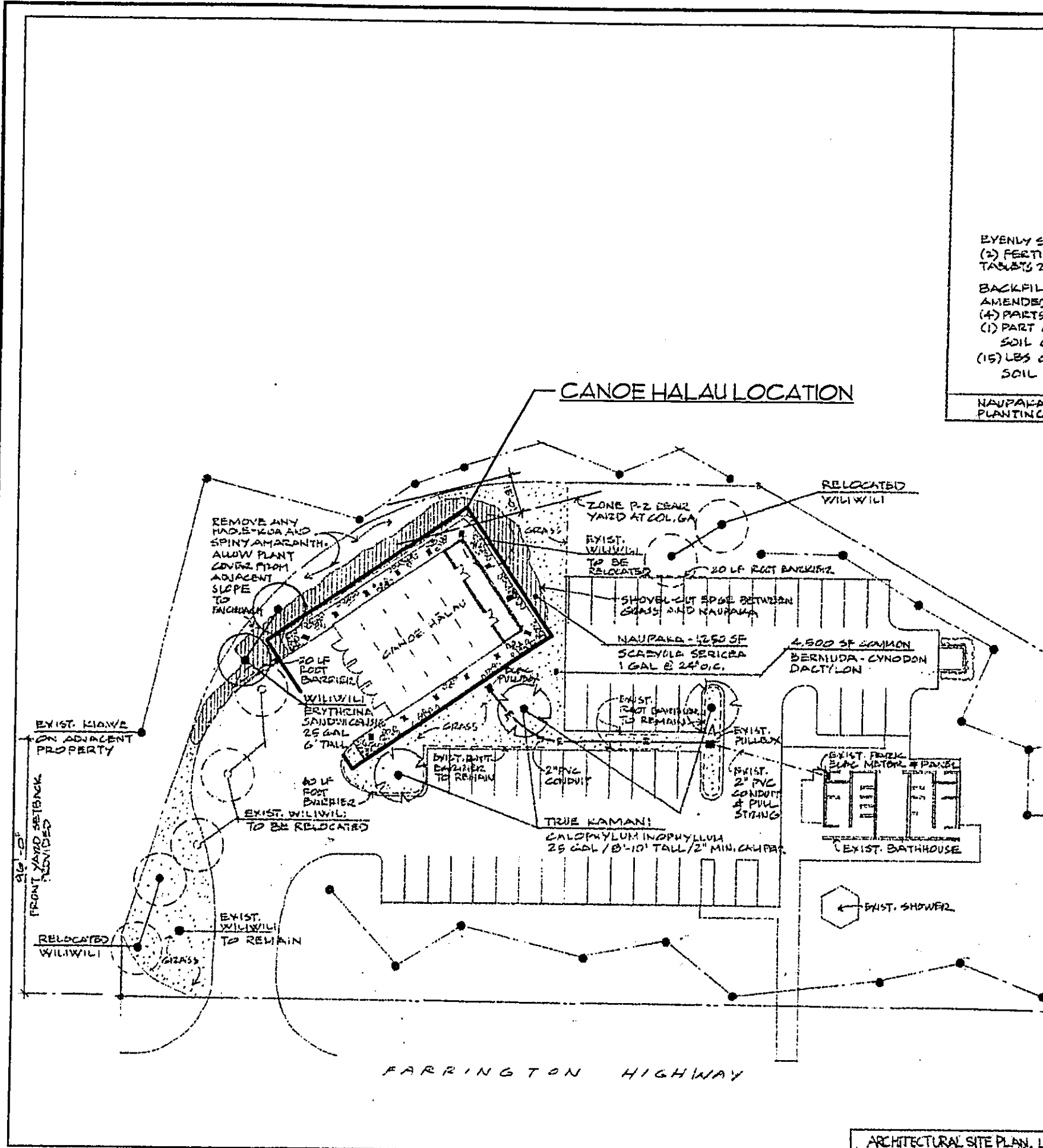
**FIGURE II**



EVENLY SP  
(2) FERTIL  
TABLETS 2L

BACKFILL  
AMENDED  
(4) PARTS  
(1) PART C  
SOIL C  
(15) LBS O  
SOIL C

NAUPAKA  
PLANTING



ARCHITECTURAL SITE PLAN, L

DOCUMENT CAPTURED AS RECEIVED

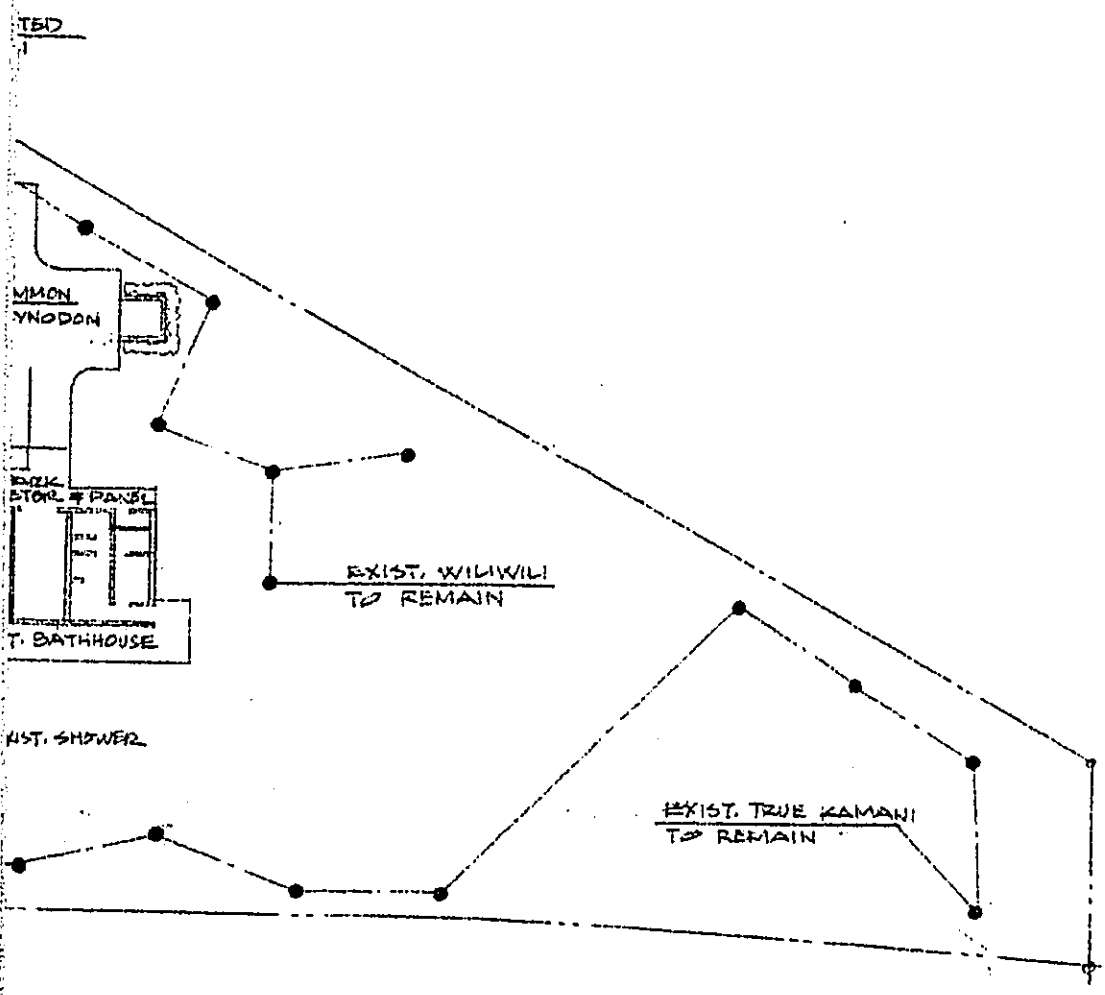
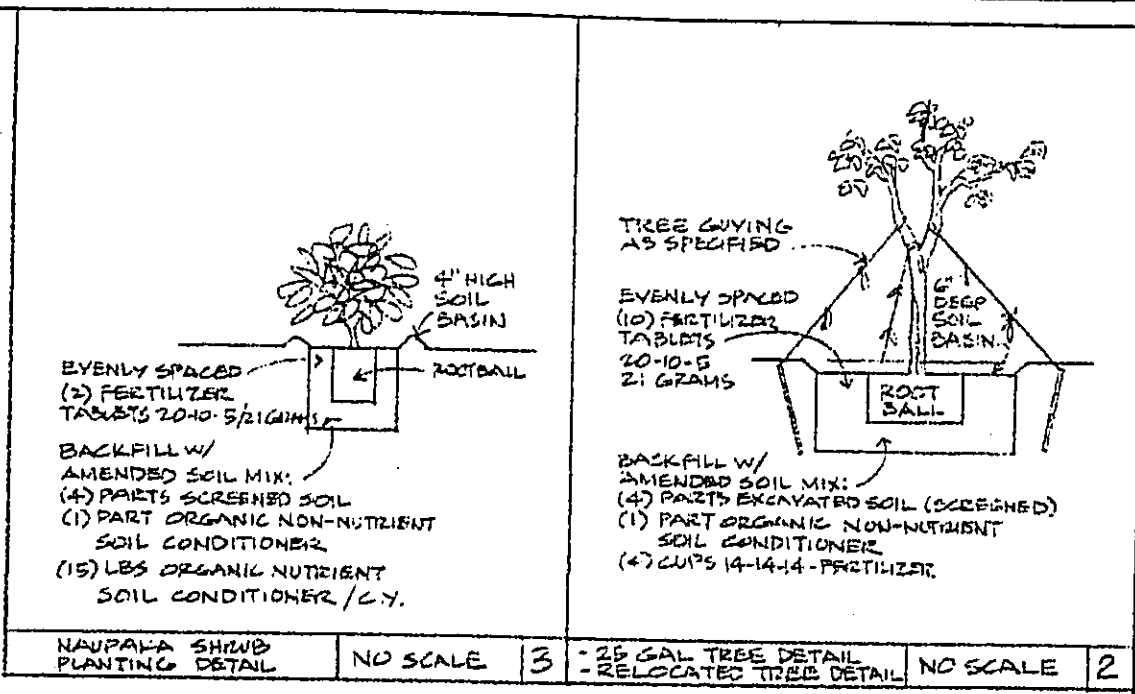
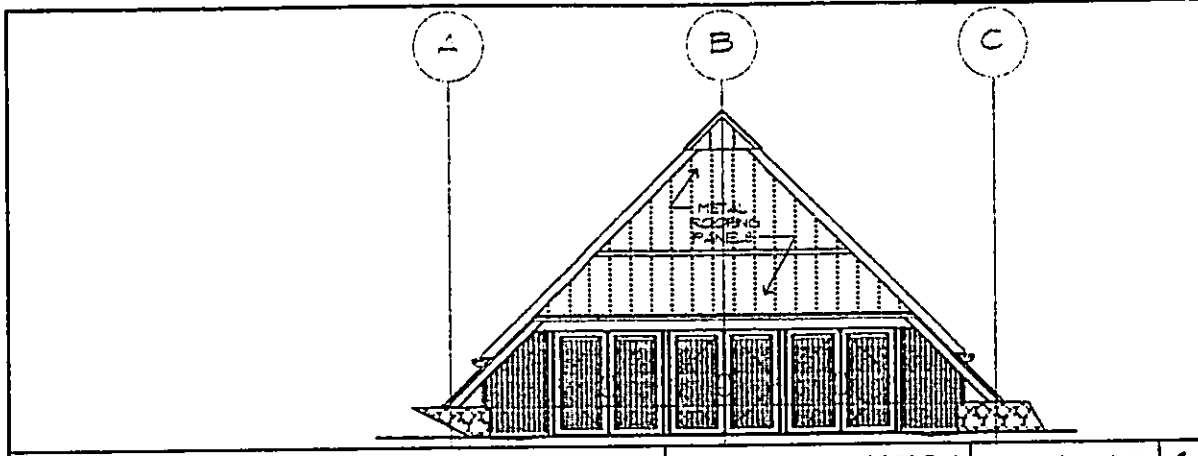


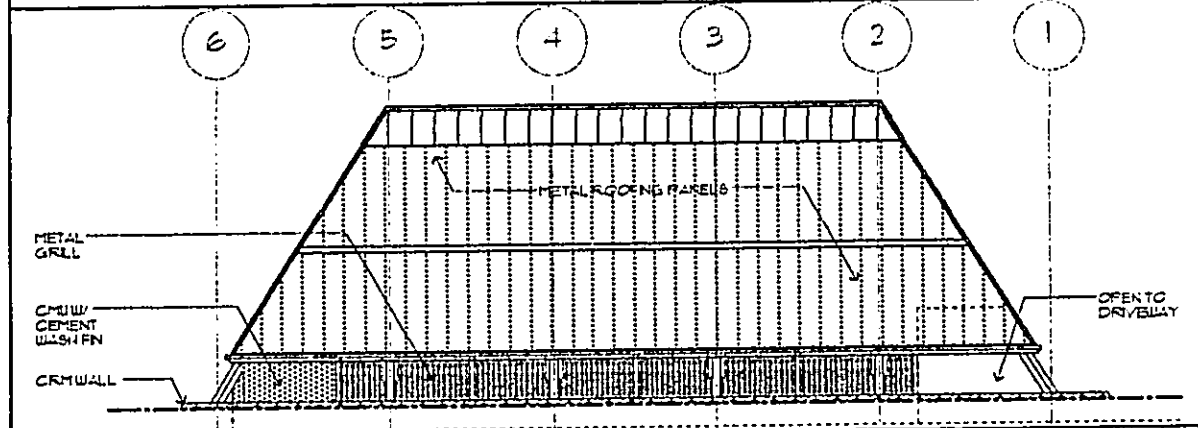
FIGURE 12

ARCHITECTURAL SITE PLAN, LANDSCAPE MODIFICATION PLAN, ELECTRIC SITE UTILITY PLAN SCALE: 1"=20' 1

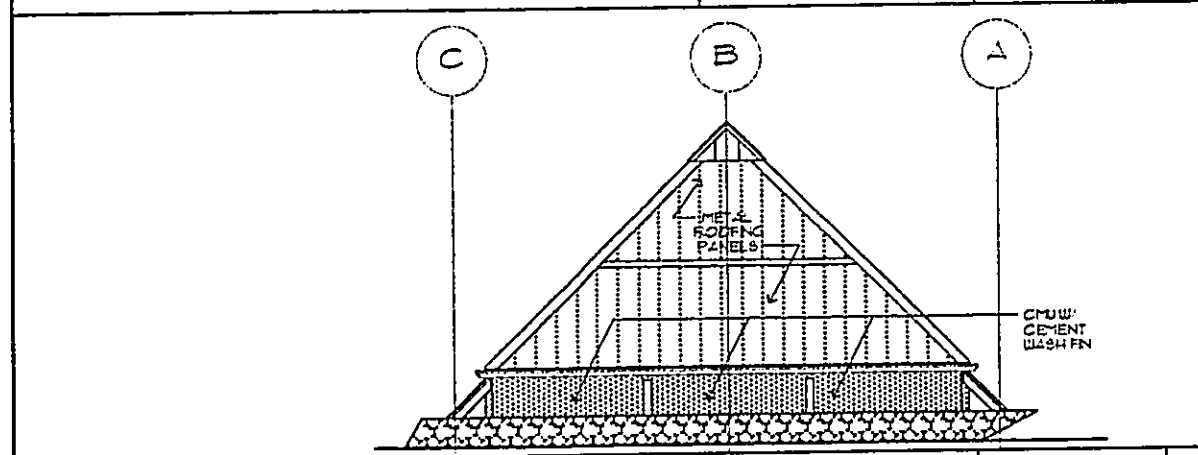
DATE	DATE	DATE
NOVEMBER 2002		
DEPARTMENT OF DESIGN AND CONSTRUCTION CITY AND COUNTY OF HONOLULU		
CANOE HALAU AT MAKAHA BEACH PARK		
JOB NO.	02-P-59	
DRAWING NO.	A-1	
SHEET NO.	7	OF 24
FILE NO.	71-G/3	



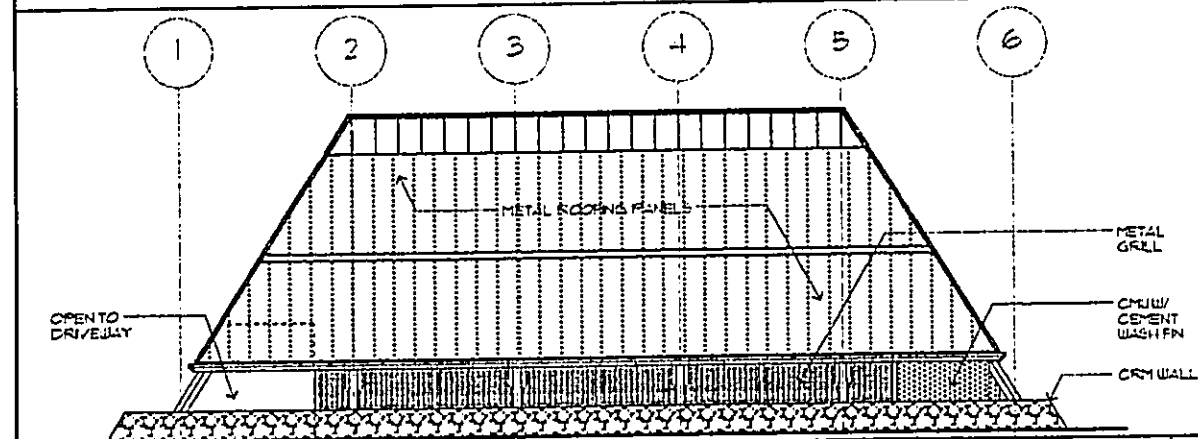
NORTH ELEVATION SCALE 1/8" = 1'-0" 6



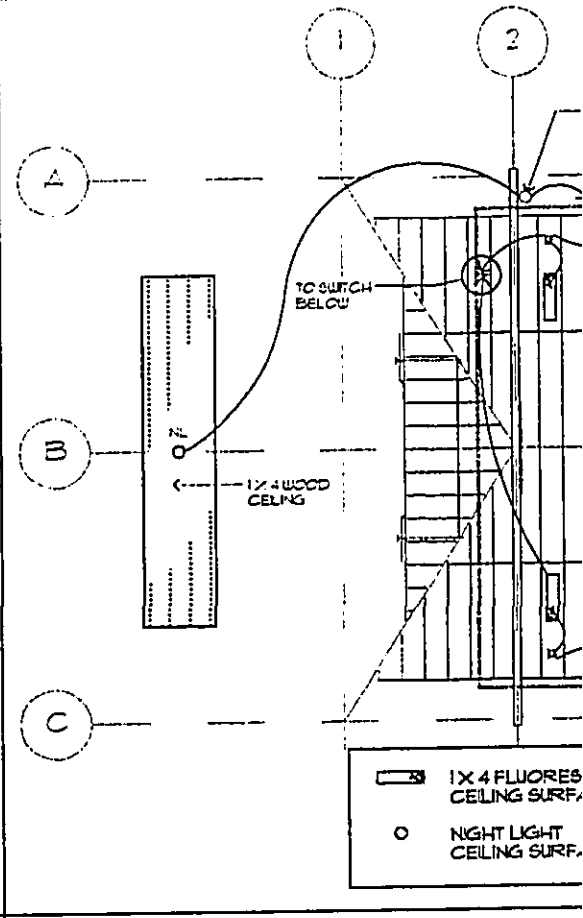
EAST ELEVATION SCALE 1/8" = 1'-0" 5





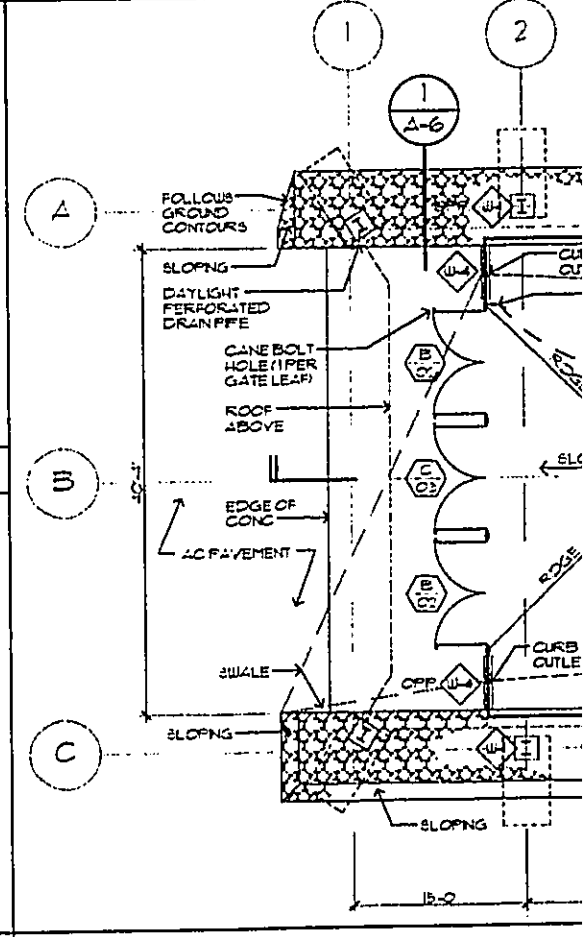
SOUTH ELEVATION SCALE 1/8" = 1'-0" 4

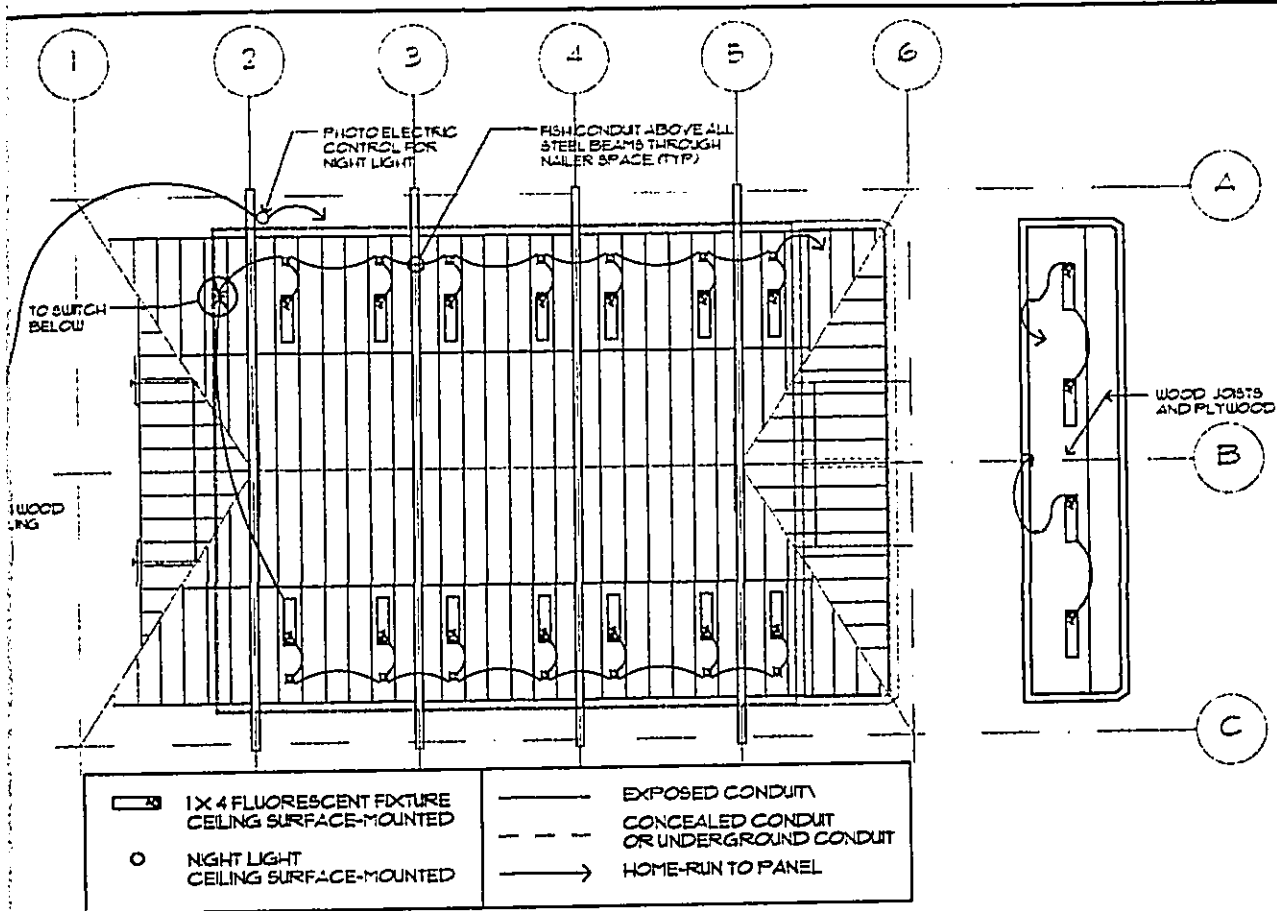


WEST ELEVATION SCALE 1/8" = 1'-0" 3

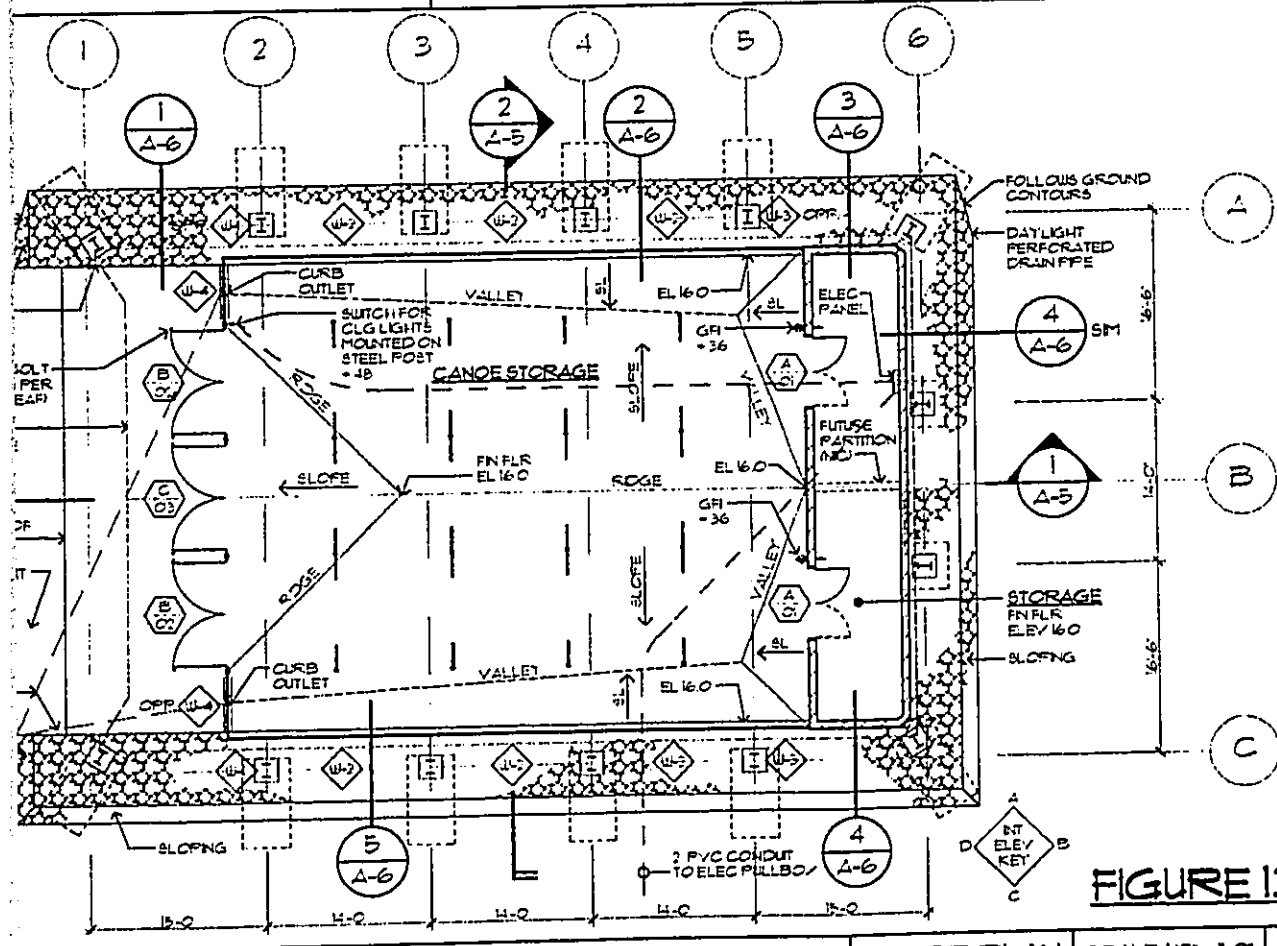


-  1x4 FLUORESC. CEILING SURF.
-  NIGHT LIGHT CEILING SURF.



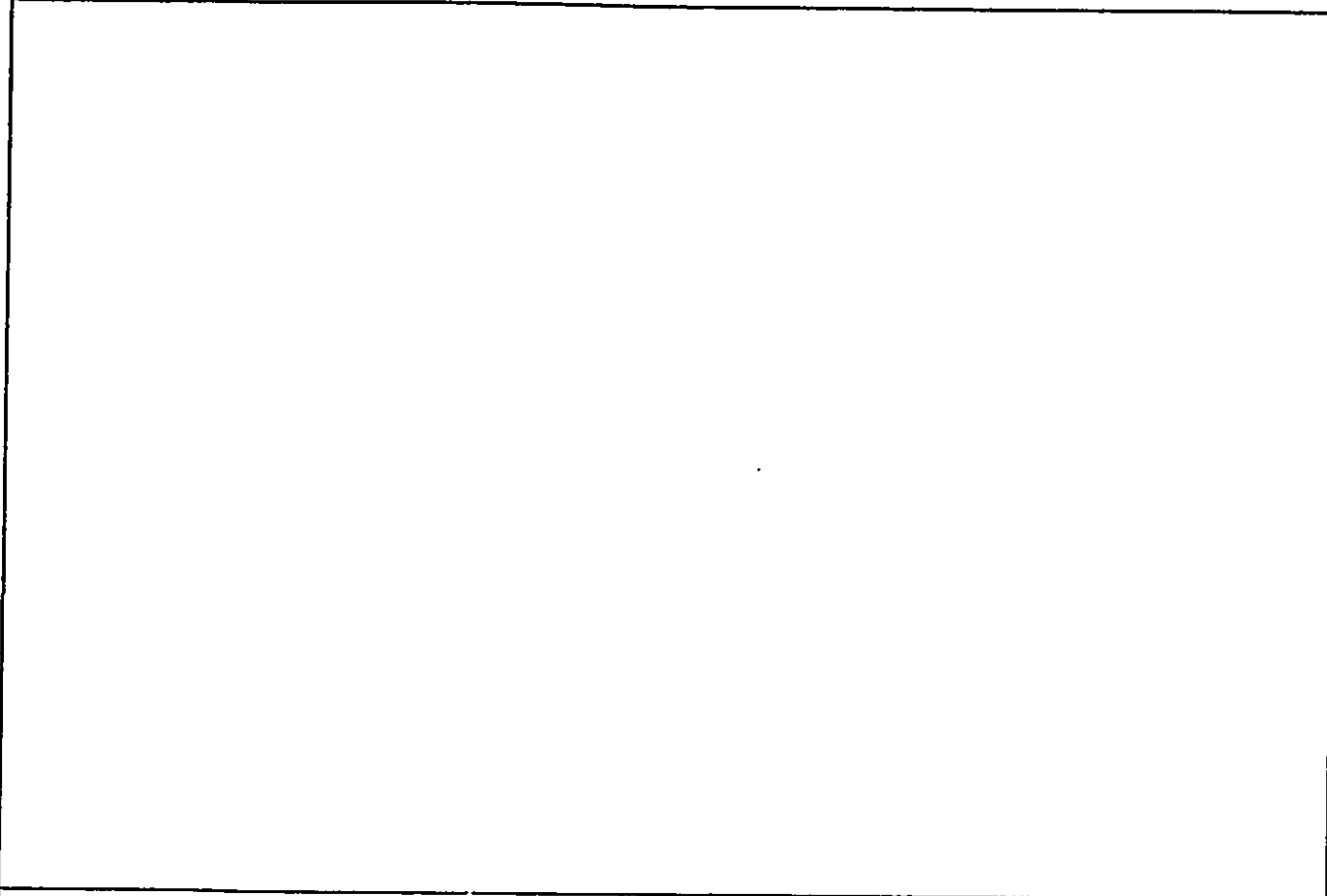


REFLECTED CEILING/ ELECTRICAL PLAN SCALE 1/8" = 1'-0" 2

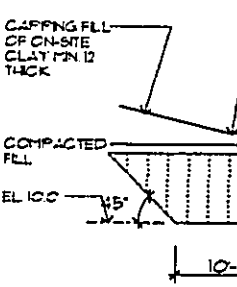


FLOOR PLAN SCALE 1/8" = 1'-0" 1

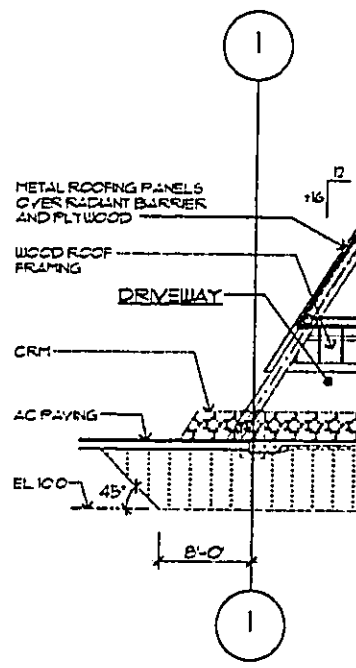
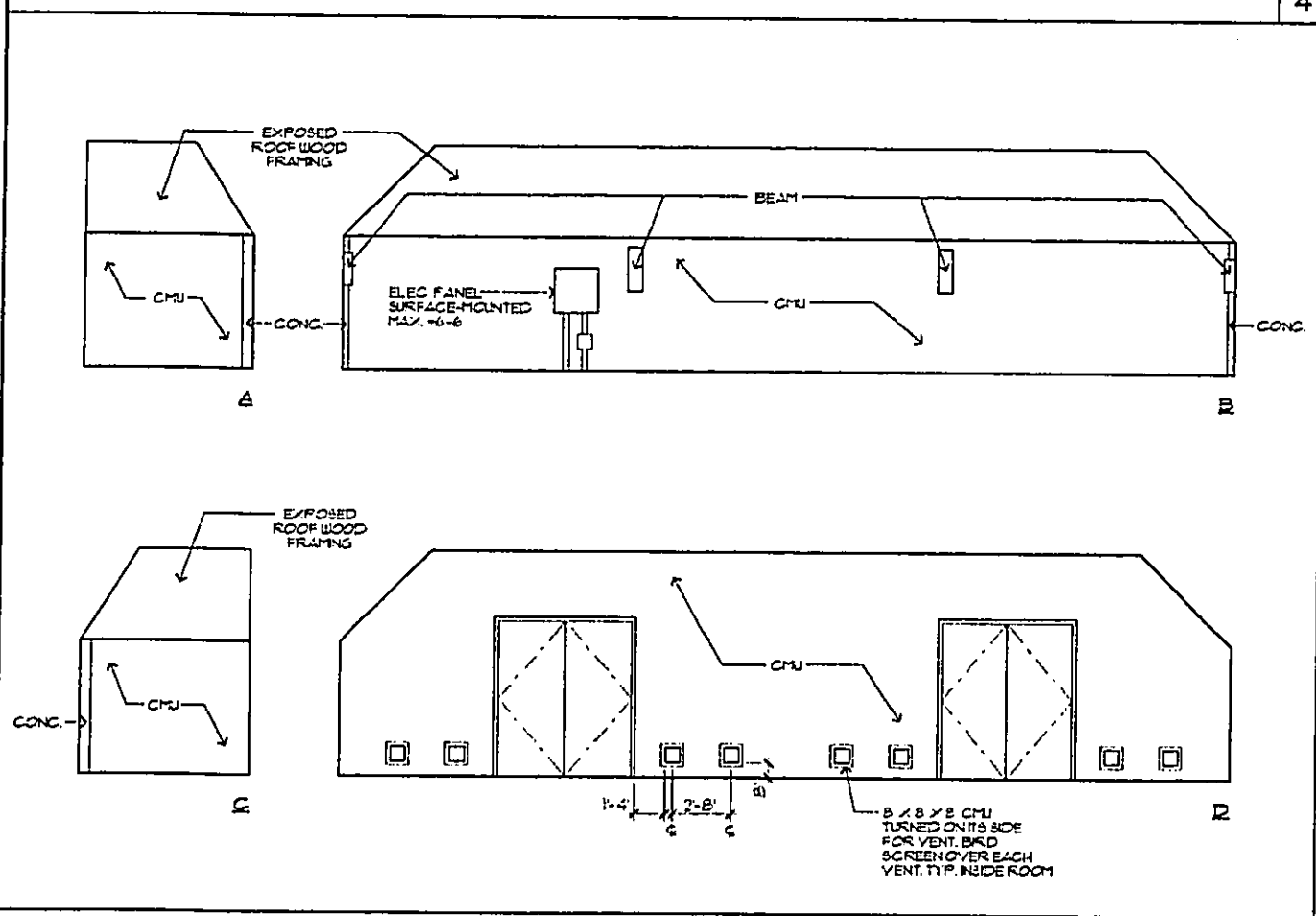
APPROVED	
DATE	
REVISION	
DATE	
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION	
EXPIRATION DATE OF LICENSE: APRIL 30, 2004	
ISSUED	MAY 2002
PROJECT	
BY	
DATE	
DEPARTMENT OF DESIGN AND CONSTRUCTION CITY & COUNTY OF HONOLULU	
KAHALUU MULTI-PURPOSE BUILDING	
FLOOR & ELECTRICAL PLAN EXT. ELEVATIONS	
JOB NO.	02-P-59
DRAWING NO.	A-3
SHEET NO. OF 24	FILE NO. 71-G/3



SCALE



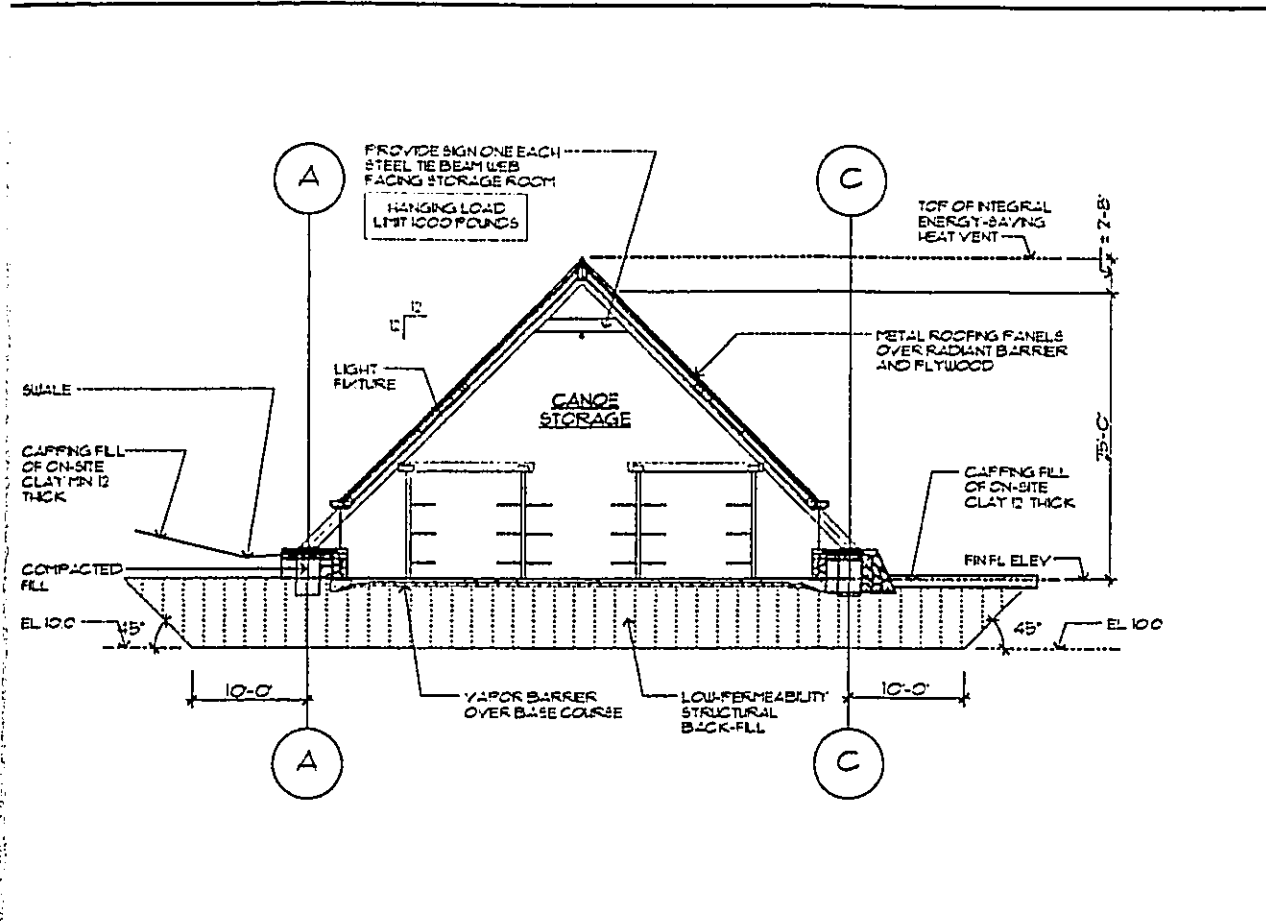
4



INTERIOR ELEVATIONS

SCALE 1/4" = 1'-0"

3



BUILDING SECTIONS SCALE 1/8" = 1'-0" 2

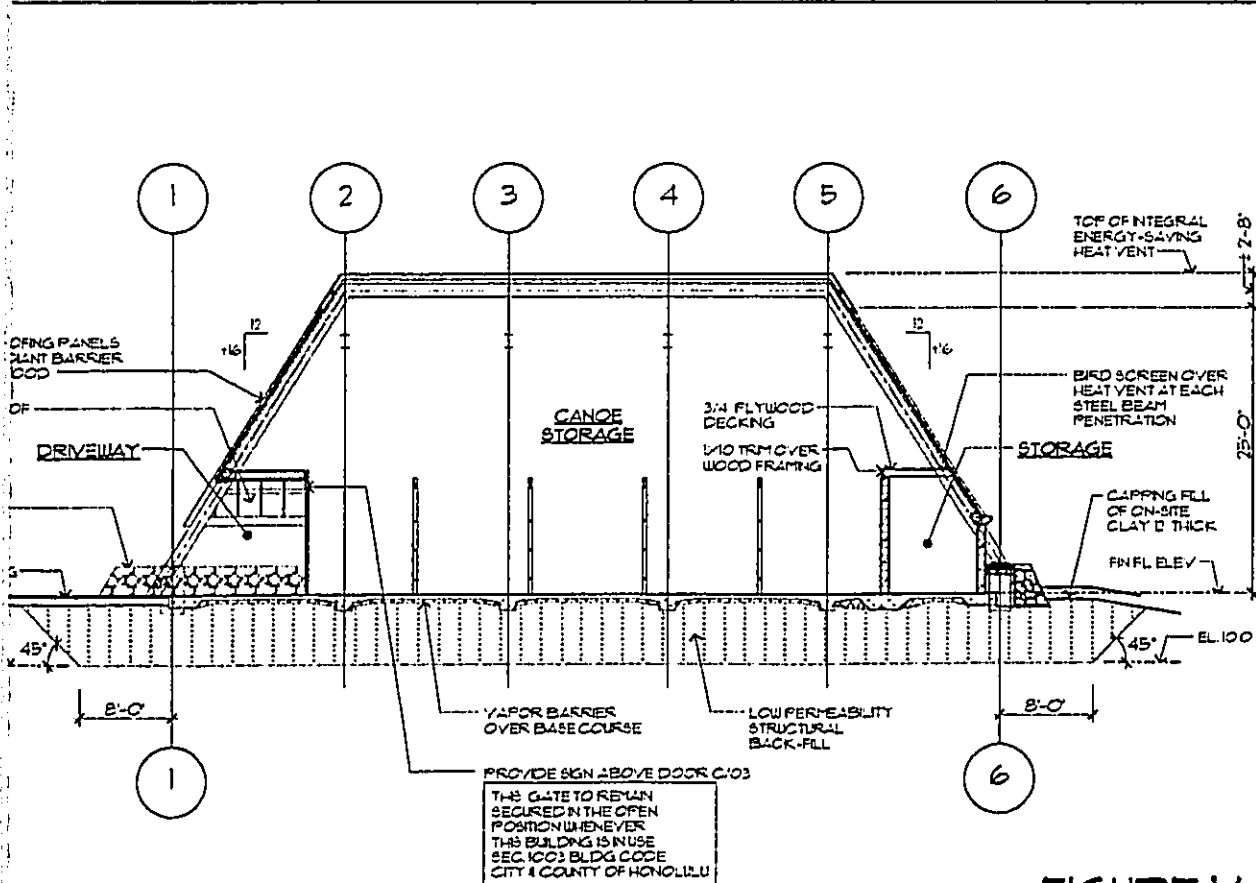


FIGURE 14

BUILDING SECTIONS SCALE 1/8" = 1'-0" 1

DATE	BY	CHKD BY	APP'D BY
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION			
EXPIRATION DATE OF LICENSE: APRIL 30, 2004			
DESIGNED BY	NO. DRAWN BY	PLANNED BY	DATE
			MAY 2002
DEPARTMENT OF DESIGN AND CONSTRUCTION CITY & COUNTY OF HONOLULU		KAHALUU MULTI-PURPOSE BUILDING	
BUILDING SECTIONS, INTERIOR ELEVATIONS			
JOB NO. 02-P-59			
DRAWING NO. A-5			
SHEET NO. OF 24	FRAME NO. 71-G/3		

## APPENDIX

---

The following permits and approvals are required for the project:

### City & County of Honolulu:

- Special Management Area Use Permit (SMA) Major
- Department of Parks & Recreation, Approval of Location
- Grading Permit
- Building Permit

The following agencies were consulted in making this assessment:

### Federal

United States Army Corps of Engineers  
United States Department of Commerce (National Marine Fisheries Services)  
United States Fish and Wild Life  
United States Department of Transportation (Federal Aviation Administration)

### State of Hawaii

Department of Accounting & General Services (Planning Branch)  
Office of Environmental Quality Control  
Department of Agriculture  
Department of Business, Economic Development & Tourism  
State Historic Preservation Division -DLNR  
Department of Health (DOH)  
DOH Environmental Management Division  
Office of State Planning  
Office of Hawaiian Affairs  
State of Hawaii Department of Transportation  
University of Hawaii Water Resource Research Center  
University of Hawaii Environmental Center

### City & County of Honolulu

Board of Water Supply  
Department of Planning & Permitting  
Department of Parks & Recreation  
Department of Transportation Services  
DPR Ocean Safety Division  
Waianae Neighborhood Board

### Private

AT&T Substation Makaha  
Makaha Shores Condominium Association  
Makaha Canoe Club

**MAKAHA BEACH PARK**  
**CANOE HALAU**

**ENVIRONMENTAL ASSESSMENT DISTRIBUTION LIST**

• **FEDERAL**

AGENCY	PHONE/FAX	DATE EA REPORT MAILED	DATE EA RESPONSE RECEIVED	REMARKS
U.S. Army Engineering District Honolulu Building 230 Fort Shafter, HI 96858-5440 Attention: Mr. George P. Young, Regulatory Branch	(P) 438-8416	6/2/03	6/11/03	Refer to comments on letter dated June 11, 2003. A response letter to agency's comments was mailed on July 11, 2003.
U.S. Department of Commerce National Marine Fisheries Service Pacific Area Office 2570 Dole Street Honolulu, HI 96822 Attention: Mr. John Naughton	(P) 973-2937	6/2/03	NONE	NO RESPONSE LETTER RECEIVED
U.S. Department of the Interior Fish and Wildlife Service 300 Ala Moana Boulevard Honolulu, HI 96825 Attention: Ms. Phyllis Ha	(P) 541-1201 (F) 541-1216	6/2/03	NONE	NO RESPONSE LETTER RECEIVED
U.S. Department of Transportation Federal Aviation Administration 300 Ala Moana Boulevard Honolulu, HI 96825 Attention: Ms. Darice Young	(P) 541-1236 (F) 541-3462	6/2/03	6/24/03	The Federal Aviation Administration has no objections or comments on the proposed project. Refer to letter dated June 23, 2003.



**MAKAHA BEACH PARK  
CANOE HALAU**

**• STATE OF HAWAII**

AGENCY	PHONE/FAX	DATE EA REPORT MAILED	DATE EA RESPONSE RECEIVED	REMARKS
Department of Agriculture 1428 South King Street Honolulu, HI 96814 Attention: Ms. Sandra Lee-Kimimoto, Chairperson	(P) 973-9600 (F) 973-9613	6/2/03	NONE	NO RESPONSE LETTER RECEIVED
Department of Business, Economic Development & Tourism P.O. Box 2359 Honolulu, HI 96804 Attention: Mr. Ted Liu, Director	(P) 586-2335 (F) 586-2377	6/2/03	NONE	NO RESPONSE LETTER RECEIVED
State Historic Preservation Division Department of Land and Natural Resources 601 Kamakilo Boulevard, Room 555 Kapolei, HI 96707 Attention: Ms. P. Holly McEldowney	(P) 692-8015	6/2/03	7/7/03	Expand Section 2.B Cultural Features. Project will have "no effect" on significant historic sites. Refer to letter dated July 3, 2003
Department of Health 1251 Punchbowl Street Honolulu, HI 96813 Attention: Dr. Chiyome Fukino	(P) 586-4400 (F) 586-4444	6/2/03	6/11/03	No staff to comment beginning March 31, 2003. Refer to DOH memo dated 3/31/03.
Department of Health Environmental Management Division 919 Ala Moana Boulevard, Suite 300 Honolulu, HI 96813 Attention: Mr. Thomas Arizumi	(P) 586-4304 (F) 586-4352	6/2/03	NONE	NO RESPONSE LETTER RECEIVED

**MAKAHA BEACH PARK**  
**CANOE HALAU**

AGENCY	PHONE/FAX	DATE EA REPORT MAILED	DATE EA RESPONSE RECEIVED	REMARKS
Office of Hawaiian Affairs 711 Kapiolani Boulevard, Suite 500 Honolulu, HI 96813 Attention: Peter L. Yee	(P) 594-1888 (F) 594-1865	6/2/03	6/24/03	There are no comments except those related to unlikely burials or cultural deposits. Refer to letter dated June 17, 2003.
State of Hawaii Department of Transportation 869 Punchbowl Street Honolulu, HI 96813 Attention: Mr. Rodney K. Haraga	(P) 587-2150	6/2/03	NONE	NO RESPONSE LETTER RECEIVED
Department of Accounting & General Services Planning Branch, Room 430 1151 Punchbowl Street Honolulu, HI 96813 Attention: Mr. Tadashi Yoshizawa	(P) 586-0486 (F) 586-0482	6/2/97	6/25/03	No impact on DAGS projects or existing facilities. Refer to letter dated June 24, 2003
State of Hawaii Office of Environmental Quality Control 235 South Beretania Street, Suite 702 Honolulu, HI 96813 Attention: Ms. Genevieve Salmonson, Director	(P) 586-4185 (F) 586-4186	6/2/03	6/12/03	Use of reclaimed water. Avoid past design flaws. Include cultural impacts assessment. Disclose park master plan. Prohibit hand-carrying canoes. Refer to OEQC letter dated June 9, 2003. Response dated July 10, 2003.
Office of State Planning 235 South Beretania Street, 6th Floor Honolulu, HI 96813 Attention: Ms. Mary Lou Kobayashi	(P) 587-2846	6/2/03	NONE	NO RESPONSE LETTER RECEIVED

MAKAHA BEACH PARK  
CANOE HALAU

• CITY & COUNTY OF HONOLULU

AGENCY	PHONE/ FAX	DATE EA REPORT MAILED	DATE EA RESPONSE RECEIVED	REMARKS
Board of Water Supply 630 South Beretania Street Honolulu, HI 96813 Attention: Mr. Clifford Jamile	(P) 973-9600 (F) 973-9613	6/2/03	6/19/03	Adequacy of fire flow. BWS to fund upgrade to be completed in 2004. Refer to comment letter dated June 16, 2003. Response letter dated July 10, 2003.
Department of Planning & Permitting 650 South King Street Honolulu, HI 96813 Attention: Mr. Eric Crispin, AIA	(P) 523-4713 (F) 523-4950	6/2/03	NONE	NO RESPONSE LETTER RECEIVED
Department of Parks & Recreation 650 South King Street Honolulu, HI 96813 Attention: Mr. William Balfour, Director	(P) 527-6301 (F) 523-4767	6/2/03	6/19/03	No comment on the draft EA. Refer to letter dated June 16, 2003.
Waianae Neighborhood Board P.O. Box 311 Waianae, Hawaii 96792 Albert H. Silva, Chair	N/A	6/2/03	NONE	NO RESPONSE LETTER RECEIVED
Department of Transportation Services 650 South King Street Honolulu, HI 96813 Attention: Ms. Cheryll Soon	(P) 523-4529 (F) 523-4730	6/2/03	NONE	NO RESPONSE LETTER RECEIVED

**MAKAHA BEACH PARK**  
**CANOE HALAU**

AGENCY	PHONE/FAX	DATE EA REPORT MAILED	DATE EA RESPONSE RECEIVED	REMARKS
DPR Ocean Safety Division 3823 Leahi Avenue Honolulu, HI 96815 Attention: Mr. Ralph Goto	(P) 973-9600 (F) 973-9613	6/2/03	NONE	NO RESPONSE LETTER RECEIVED
University of Hawaii Water Resources Research Center 2540 Dole Street, Holmes Hall 283 Honolulu, HI 96822 Attention: Mr. Roger Fujioka	(P) 956-3096	6/2/03	NONE	NO RESPONSE LETTER RECEIVED
University of Hawaii Environmental Center 2550 Campus Road, Crawford 317 Honolulu, HI 96822 Attention: Dr. John Harrison	(P) 956-7361	6/2/03	NONE	NO RESPONSE LETTER RECEIVED
Waianae Neighborhood Board Parks Committee Waianae, HI 96792 Attention: Georgette Jordan	N/A N/A	6/9/03	NONE	Copy of DEA requested by Neighborhood Board Parks Committee. NO RESPONSE LETTER RECEIVED
Makaha Canoe Club  Waianae, HI 96792 Attention: Hensley Lopez	(P) 527-5815	6/2/03	NONE	NO RESPONSE LETTER RECEIVED

MAKAHA BEACH PARK  
CANOE HALAU

• PRIVATE

AGENCY	PHONE/FAX	DATE EA REPORT MAILED	DATE EA RESPONSE RECEIVED	REMARKS
AT&T Substation Makaha 84-250 Farrington Highway Waianae, HI 96792 Attention: Mr. Wade Higa, Supervisor	(P) 696-4732	6/2/03	NONE	NO RESPONSE LETTER RECEIVED
Makaha Shores Condominium 84-265 Farrington Highway Waianae, HI 96792 Attention: Building Manager	N/A	6/2/03	NONE	NO RESPONSE LETTER RECEIVED



DEPARTMENT OF THE ARMY  
U. S. ARMY ENGINEER DISTRICT, HONOLULU  
FT. SHAFTER, HAWAII 96858-5440

REPLY TO  
ATTENTION OF

June 11, 2003

Regulatory Branch

RECEIVED

JUN 11 2003

Mr. Daniel Chun  
Kauahikaua & Chun/Architects  
567 So. King Street, Suite 108  
Honolulu, Hawaii 96817

KAUAHIKAUA & CHUN

Dear Mr. Chun:

This responds to your written request (letter dated June 2, 2003) for review of the Draft Environmental Assessment (DEA) for the proposed Canoe Halau at Makaha Beach Park, Oahu. We have reviewed the document with respect to the Corps' authority to issue Department of the Army (DA) permits under Section 10 of the Rivers and Harbors Act of 1899 (33 USC 403) and Section 404 of the Clean Water Act (33 USC 1344).

The DEA indicates that the proposed canoe halau would be constructed in an existing parking lot on the upland side of Farrington Highway. The DEA indicates that the project would be situated approximately 150 feet north of the closest water body, a wetland associated with Makaha Stream.

Based on the information in the DEA, I have determined that the site of the proposed project does not include any waters of the United States, including adjacent wetlands, which are subject to the regulatory authority of the Corps of Engineers; therefore, a DA permit will not be required.

File No. 200300439 has been assigned to this project. Should you have questions concerning this determination, please contact Mr. Peter Galloway of my staff (telephone (808) 438-8416; fax (808) 438-4060). Mailed correspondence should be addressed to: Regulatory Branch (CEPOH-EC-R/P. Galloway); U.S. Army Engineer District, Honolulu; Building 230; Fort Shafter, Hawaii 96858-5440.

Sincerely,

George P. Young, P.E.  
Chief, Regulatory Branch

# KAUAIKAUA & CHUN / ARCHITECTS

DWIGHT PAUHI KAUAIKAUA, AIA  
DANIEL GARY CHUN, AIA

July 10, 2003

Regulatory Branch (CEPOH-EC-R/P. Galloway)  
U.S Army Engineering District Honolulu  
Building 230  
Fort Shafter, Hawaii 96858-5440

Subject; File No. 200300349 - Canoe Halau at Makaha Beach Park  
Draft Environmental Assessment

Dear Mr. Galloway,

Thank you for the Department of the Army comments on the Draft Environmental Assessment for this project. The City & County of Honolulu Department of Design & Construction is having published a Finding of No Significant Impact (FONSI) determination to be published in the July 23, 2003 OEQC Environmental Notice.

Very truly yours,

  
Daniel Chun, FAIA  
Project Architect

KAWAIAHAO PLAZA HALE MAUKA  
567 SO. KING STREET SUITE 108  
HONOLULU, HAWAII 96813

Phone (808) 526-2283  
Fax (808) 599-4723



U.S. Department  
of Transportation  
Federal Aviation  
Administration

Western-Pacific Region  
Real Estate and Utilities Section, AHNL-54B

P. O. Box 50109  
Honolulu, Hawaii 96850-5000

RECEIVED

JUN 24 2003

Kauahikaua & Chun

June 23, 2003

Mr. Daniel Chun, FAIA  
Project Architect  
Kauahikaua & Chun Architects  
Kawaiahao Plaza Hale Mauka  
567 So. King Street, Suite 108  
Honolulu, HI 96813

Dear Mr. Chun:

Your letter of June 2, 2003, forwarded for our review and comment your Draft Environmental Assessment (DEA) for the Canoe Halau at Makaha Beach Park, Oahu, Hawaii.

The Federal Aviation Administration (FAA) has no objection or further comment on your proposed project.

We appreciate this opportunity to review your project and we wish you every success in your endeavor. Please contact me at 541-1236, if there are any questions.

Sincerely,

Darice B. N. Young  
Realty Contracting Officer



# KAUAHIKAUA & CHUN / ARCHITECTS

DWIGHT PAUHI KAUAHIKAUA, AIA  
DANIEL GARY CHUN, AIA

July 10, 2003

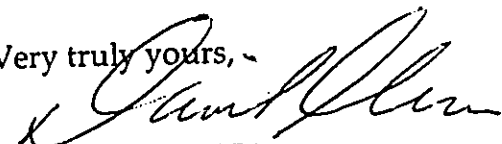
Darice B.N. Young, Realty Contracting Officer  
United States Department of Transportation  
Federal Aviation Administration  
300 Ala Moana Boulevard  
Honolulu, Hawaii 96825

Subject; Canoe Halau at Makaha Beach Park  
Draft Environmental Assessment

Dear Ms. Young,

Thank you for your comments on the Draft Environmental Assessment for this project. The City & County of Honolulu Department of Design & Construction is having published a Finding of No Significant Impact (FONSI) determination to be published in the July 23, 2003 OEQC Environmental Notice.

Very truly yours, ~



Daniel Chun, FAIA  
Project Architect

KAWAIAHAO PLAZA HALE MAUKA  
567 SO. KING STREET SUITE 108  
HONOLULU, HAWAII 96813

Phone (808) 526-2283  
Fax (808) 599-4723

LINDA LINGLE  
GOVERNOR



RUSS K. SAITO  
COMPTROLLER  
KATHERINE H. THOMASON  
DEPUTY COMPTROLLER

STATE OF HAWAII  
DEPARTMENT OF ACCOUNTING AND GENERAL SERVICES  
P.O. BOX 119, HONOLULU, HAWAII 96810

(P)1200.3

JUN 24 2003

RECEIVED  
JUN 25 2003  
Kauahikaua & Chun

Mr. Daniel Chun, Project Architect  
Kauahikaua & Chun Architects  
567 S. King St., Suite 108  
Honolulu, HI 96813

Dear Mr. Chun:

Subject: Canoe Halau at Makaha Beach Park  
Draft Environmental Assessment

Thank you for the opportunity to review the draft environmental assessment. The project does not impact any of the Department of Accounting and General Services' projects or existing facilities. Therefore, we have no comments to offer.

If there are any questions regarding the above, please have your staff call Mr. David DePonte of the Planning Branch at 586-0492.

Sincerely,

A handwritten signature in cursive script, appearing to read "Tadashi Yoshizawa".

TADASHI YOSHIKAWA  
Acting Public Works Administrator

DD:mo

# KAUAHIKAUA & CHUN / ARCHITECTS

DWIGHT PAUHI KAUAHIKAUA, AIA  
DANIEL GARY CHUN, AIA

July 10, 2003

David DePonte  
State of Hawaii Department of Accounting & General Services  
Planning Branch Room 430  
1151 Punchbowl Street  
Honolulu, Hawaii 96813

Subject; Canoe Halau at Makaha Beach Park  
Draft Environmental Assessment

Dear Mr. DePonte,

Thank you for your comments on the Draft Environmental Assessment for this project. The City & County of Honolulu Department of Design & Construction is having published a Finding of No Significant Impact (FONSI) determination to be published in the July 23, 2003 OEQC Environmental Notice.

Very truly yours,



Daniel Chun, FAIA  
Project Architect

KAWAIAHAO PLAZA HALE MAUKA  
567 SO. KING STREET SUITE 108  
HONOLULU, HAWAII 96813

Phone (808) 526-2283  
Fax (808) 599-4723

LINDA LINGLE  
GOVERNOR OF HAWAII



GENEVIEVE SALMONSON  
DIRECTOR

STATE OF HAWAII  
OFFICE OF ENVIRONMENTAL QUALITY CONTROL  
235 SOUTH BERETANIA STREET  
SUITE 702  
HONOLULU, HAWAII 96813  
Telephone (808) 586-4186  
Facsimile (808) 586-4186  
Email: oeqc@health.state.hi.us

June 9, 2003

Timothy Steinberger, Acting Director  
Department of Design & Construction  
650 South King Street  
Honolulu, Hawaii 96813

Attention: Wesley Obata

Dear Mr. Steinberger:

Subject: Draft Environmental Assessment (EA), Makaha Beach Park Canoe Halau

We have the following comments to offer:

1. Two-sided pages: In order to reduce bulk and save on paper, please consider printing on both sides of the pages in the final document.
2. Reclaimed water: We recommend the use of reclaimed, or at least non-potable, water for the canoe washdown.
3. Design flaws: An August 26<sup>th</sup>, 2002 comment letter from the Office of Hawaiian Affairs on the Nanakuli Beach canoe halau recommends avoiding design flaws found in halau in other Oahu beach parks. What are these flaws and how will you avoid them in this halau?
4. Cultural impacts assessment:  
Act 50 was passed by the Legislature in April of 2000. This mandates an assessment of impacts to current cultural practices by the proposed project. In the final EA include such an assessment.  
For assistance in the preparation refer to our *Guidelines for Assessing Cultural Impacts*. Go to our homepage at <http://www.state.hi.us/health/oeqc/guidance/index.html> or contact our office for a paper copy. You will also find the text of Act 50 linked to this section of our homepage.
5. Segmentation:  
The environmental review law prohibits segmentation of larger projects and requires that full disclosure of impacts be made on projects in their entirety, regardless of

Timothy Steinberger  
June 9, 2003  
Page 2

the funding source. If you have a master plan for improvement to this island's beach parks, you must disclose it in its entirety.

A review of our records for the last six months lists Design & Construction environmental assessments for the following parks:

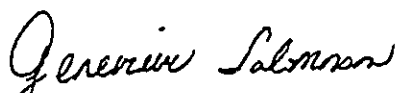
1. Waimanalo Beach Park
2. Kuhio Beach Park
3. Maili Beach Park
4. Keehi Lagoon Beach Park
5. Nanakuli Beach Park (Improvements)
6. Nanakuli Beach Park (Canoe Halau)
7. Kaaawa Beach Park

Is additional improvement or construction planned for any of these locations? Full disclosure needs to be made on these planned activities.

6. Hand carrying of canoes: The draft EA states that, if the preferred alternative location is implemented, hand carrying of canoes across Farrington Highway to the beach park will be prohibited. How will this prohibition be enforced?

If you have any questions, call Nancy Heinrich at 586-4185.

Sincerely,

  
GENEVIEVE SALMONSON  
Director

c: Daniel Chun

# KAUAHIKAUA & CHUN / ARCHITECTS

DWIGHT PAUAHI KAUAHIKAUA, AIA  
DANIEL GARY CHUN, FAIA

July 10, 2003

Genevieve Salmonson, Director  
State of Hawaii Office of Environmental Quality Control  
235 S. Beretania Street Suite 702  
Honolulu, Hawaii 96813

Subject; Canoe Halau at Makaha Beach Park  
Draft Environmental Assessment

Dear Ms. Salmonson,

Thank you for your comments on the Draft Environmental Assessment sent to the City & County of Honolulu Department of Design & Construction. We are responding on behalf of the Department. Items refer to the comments in your letter.

1. Two-sided pages: This is being done where practical.
2. Reclaimed water: The Makaha Beach Park currently has no close source of reclaimed, or non-potable, water. Our canoe halau is primarily for off-season storage so frequent washing of canoes will not occur here. However, our design of the hose bibs is connected to the park irrigation supply lines so that these can be converted when and if the park's landscape irrigation is converted to reclaimed or non-potable water.
3. Design flaws: The Makaha Canoe Halau contains some design features that differ from other canoe halau on Oahu. Portions of the canoe racks are to be wrapped in polyvinyl chloride plastic sleeves to minimize scratching of canoe hulls. The exterior grills are designed several feet away from the canoe racks to prevent stored canoes from being touched through the grills. The roof eaves are lower to the ground to provide more shading from ultra-violet sunlight that damages fiberglass hulls. The storage room doors are fully accessible without moving any stored canoes. The roofing design contains an internal reflective foil barrier to reduce heat transmitted through the roof.
4. Cultural impacts assessment: The final EA contains such an assessment.
5. Segmentation: Figure 1 of the final EA shows the conceptual Master Plan for Makaha Beach Park.

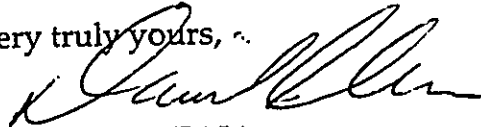
KAWAIAHAO PLAZA HALE MAUKA  
567 SO. KING STREET, SUITE 108  
HONOLULU, HAWAII 96813

Phone (808) 526-2283  
Fax (808) 599-4723

Genevieve Salmonson, Director  
State of Hawaii Office of Environmental Quality Control  
July 10, 2003  
Page 2

6. Hand carrying of canoes: Hand carrying of canoes across Farrington Highway will be prohibited in the license agreement between the Makaha Canoe Club and the City & County of Honolulu.

Very truly yours, ..



Daniel Chun, FAIA  
Project Architect

Cc: City & County of Honolulu Department of Parks & Recreation

LINDA LINGLE  
GOVERNOR OF HAWAII



STATE OF HAWAII  
DEPARTMENT OF LAND AND NATURAL RESOURCES

HISTORIC PRESERVATION DIVISION  
KAKUHIHEWA BUILDING, ROOM 555  
601 KAMOKILA BOULEVARD  
KAPOLEI, HAWAII 96707

PETER T. YOUNG  
CHAIRPERSON  
BOARD OF LAND AND NATURAL RESOURCES  
COMMISSION ON WATER RESOURCE MANAGEMENT

DAN DAVIDSON  
DEPUTY DIRECTOR - LAND

ERNEST Y.W. LAU  
DEPUTY DIRECTOR - WATER

AQUATIC RESOURCES  
BOATING AND OCEAN RECREATION  
BUREAU OF CONVEYANCES  
COMMISSION ON WATER RESOURCE MANAGEMENT  
CONSERVATION AND COASTAL LANDS  
CONSERVATION AND RESOURCES ENFORCEMENT  
ENGINEERING  
FORESTRY AND WILDLIFE  
HISTORIC PRESERVATION  
KAHOOLAWE ISLAND RESERVE COMMISSION  
LAND  
STATE PARKS

July 3, 2003

Daniel Chun, FAIA  
Project Architect  
Kauahikaua & Chun Architects  
Kawajahao Plaza Hale Mauka  
567 So. King Street, Suite 108  
Honolulu, Hawaii 96813

RECEIVED

JUL 7 2003

Kauahikaua & Chun

LOG NO: 2003.1074  
DOC NO: 0306EJ31

Dear Mr. Chun:

SUBJECT: Chapter 6E-8 Historic Preservation Review - Draft Environmental Assessment for the Construction of a Canoe *Halau* at Mākaha Beach Park  
Mākaha, Wai`anae, O`ahu  
TMK: (1) 8-4-001:02, 8-4-002:047

Thank you for the opportunity to comment on the DEA for the proposed construction of a canoe *halau* at Mākaha Beach Park. Our review is based on historic reports, maps, and aerial photographs maintained at the State Historic Preservation Division. Also a field inspection was made of the project area by SHPD staff Sara Collins and Elaine Jourdane and C&C DDC staff Wesley Obata on June 25. We received the DEA from your office on June 4, 2003, and provide the following comments.

Section 2.B Cultural Features should be expanded to include information derived from the archaeological inventory survey conducted in 1996-1997 of the beach park parcel. The draft report (*The Results of An Archaeological Inventory Survey in Coastal Mākaha, Wai`anae, O`ahu, Hawai`i*, Cleghorn, September 1997) documents the results of the surface survey and subsurface testing.

Although the draft report has not been finalized, the results of subsurface testing in the western portion of the park parcel indicated that subsurface historic sites were not likely to be found. Since the parking lot and comfort stations have been built in the western portion and no historic finds were reported during construction of the existing facility, it is unlikely that historic sites would remain in the area proposed for the



Daniel Chun, FAIA  
Page Two

construction of the canoe halau. Therefore, we believe that this project will have "no effect" on significant historic sites.

In the unlikely event that historic sites, including human burials, are uncovered during routine construction activities, all work in the vicinity must stop and the State Historic Preservation division must be contacted at 692-8015.

Should you have any questions, please feel free to call Sara Collins at 692-8026 or Elaine Jourdane at 692-8027.

Aloha,

*P. Holly McEldowney*

P. Holly McEldowney, Acting Administrator  
State Historic Preservation Division

EJ:jk

# KAUAHIKAUA & CHUN / ARCHITECTS

DWIGHT PAUHI KAUAHIKAUA, AIA  
DANIEL GARY CHUN, AIA

July 10, 2003

P. Holly McEldowney, Acting Administrator  
State Historic Preservation Division  
State of Hawaii Department of Land & Natural Resources  
601 Kamokila Boulevard Room 555  
Kapolei, Hawaii 96707

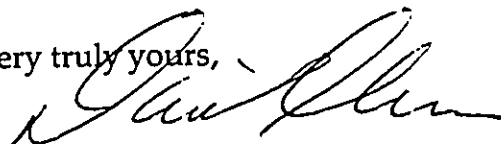
Subject; Canoe Halau at Makaha Beach Park  
Draft Environmental Assessment

Dear Ms. McEldowney,

Thank you for your comments on the Draft Environmental Assessment for this project. The City & County of Honolulu Department of Design & Construction is having published a Finding of No Significant Impact (FONSI) determination to be published in the July 23, 2003 OEQC Environmental Notice.

In response to your comments Section 2.B Cultural Features has been expanded to include findings from the draft inventory report referenced in the DLNR letter of July 3, 2003. We have also expanded the EA to assess cultural impacts. Construction documents already require the construction contractor to cease work and notify proper authorities in the unlikely event that historic artifacts, including human burials, are uncovered during construction.

Very truly yours,



Daniel Chun, FAIA  
Project Architect

KAWAIAHAO PLAZA HALE MAUKA  
567 SO. KING STREET SUITE 108  
HONOLULU, HAWAII 96813

Phone (808) 526-2283  
Fax (808) 599-4723

LINDA LINGLE  
GOVERNOR OF HAWAII



CHIYOME L. FUKINO, M.D.  
DIRECTOR OF HEALTH

STATE OF HAWAII  
DEPARTMENT OF HEALTH  
P.O. Box 3378  
HONOLULU, HAWAII 96801-3378

In reply, please refer to:  
File: EPO

March 31, 2003

RECEIVED

JUN 11 2003

KAUAIKOUA & CHUN

TO: Persons Requesting Department of Health  
Comments on Land use Documents

FROM: June Harrigan-Lum, Manager  
Environmental Planning Office

A handwritten signature in cursive script that reads "June Harrigan-Lum".

Our land use review coordinator position will be vacant beginning March 31, 2003. We will be filling this position as soon as possible. In the meantime, starting March 31, 2003, the Environmental Planning Office (EPO) will not be accepting any land use documents for coordinated replies.

If you would like staff in a specific branch or office (for instance, the Wastewater Branch) to comment on your proposal, you are welcome to contact the staff directly. A list of the Branch/Office names is enclosed for your reference. If you have already sent a copy of the document to the Department of Health (EPO), and wish to have us send it to a specific branch, you may call 586-4337 and ask for the clerical staff to send it to the appropriate branch. Please describe the document and the date of your cover letter.

You may call the above number and check with the clerical staff to see when coordinated responses from this office will resume.

Thank you for your cooperation and patience in this matter.

Enclosure

c: DDEH

# KAUAHIKAUA & CHUN / ARCHITECTS

DWIGHT PAUHI KAUAHIKAUA, AIA  
DANIEL GARY CHUN, FAIA

July 10, 2003

June Harrigan-Lum, Manager  
State of Hawaii Department of Health  
Environmental Planning Office  
P.O. Box 3378  
Honolulu, Hawaii 96801-3378

Subject: Canoe Halau at Makaha Beach Park  
Draft Environmental Assessment

Dear Ms. Harrigan-Lum,

Thank you for your response to the Draft Environmental Assessment for this project. The City & County of Honolulu Department of Design & Construction is having published a Finding of No Significant Impact (FONSI) determination to be published in the July 23, 2003 OEQC Environmental Notice.

The detailed construction documents will be submitted to the appropriate Department of Health branches for review during the future building permit application process.

Very truly yours,

  
Daniel Chun, FAIA  
Project Architect

KAWAIAHAO PLAZA HALE MAUKA  
567 SO. KING STREET, SUITE 108  
HONOLULU, HAWAII 96813

Phone (808) 526-2283  
Fax (808) 599-4723

PHONE (808) 594-1888

FAX (808) 594-1865



STATE OF HAWAII  
OFFICE OF HAWAIIAN AFFAIRS  
711 KAPI'OLANI BOULEVARD, SUITE 500  
HONOLULU, HAWAII 96813

HRD03/961

June 17, 2003

RECEIVED

JUN 24 2003

Kaauhikaua & Chun

Daniel Chun  
Project Architect  
Kaauhikaua and Chun  
Kawaiahao Plaza, Hale Mauka  
567 S. King St. Ste 108  
Honolulu, HI 96813

Re: Draft Environmental Assessment for Canoe Halau at Makaha Beach Park, TMK 8-4-1:12 and 8-4-2:47 Waianae District, Oahu, HI.

Dear Mr. Chun,

OHA in is receipt of your June 2, 2003 request for comments on the above referenced project. OHA has no comments on the project except to note that in the unlikely event that burials or cultural deposits are uncovered during ground excavating activities, we will rely on your assurances that work will cease and the appropriate agencies will be contacted pursuant to applicable law.

Thank you for the opportunity to comment on this project. If you have further questions, please contact Pua Aiu at 594-1931 or e-mail her at [paiu@oha.org](mailto:paiu@oha.org).

Sincerely,

A handwritten signature in black ink, appearing to read "Peter L. Yee".

Peter L. Yee  
Director  
Nationhood and Native Rights

## KAUAHIKAUA & CHUN / ARCHITECTS

DWIGHT PAUHI KAUAHIKAUA, AIA  
DANIEL GARY CHUN, FAIA

July 10, 2003

Peter L. Yee, Director, Nationhood and Native Rights  
Office of Hawaiian Affairs  
711 Kapiolani Boulevard Suite 500  
Honolulu, Hawaii 96813

Subject; Canoe Halau at Makaha Beach Park  
Draft Environmental Assessment

Dear Mr. Yee,

Thank you for your comments on the Draft Environmental Assessment for this project. The City & County of Honolulu Department of Design & Construction is having published a Finding of No Significant Impact (FONSI) determination to be published in the July 23, 2003 OEQC Environmental Notice.

Construction documents already require the construction contractor to cease work and notify proper authorities in the unlikely event that burials or cultural deposits are uncovered during construction.

Very truly yours,

  
Daniel Chun, FAIA  
Project Architect

KAWAIAHAO PLAZA HALE MAUKA  
567 SO. KING STREET, SUITE 108  
HONOLULU, HAWAII 96813

Phone (808) 526-2283  
Fax (808) 599-4723

**BOARD OF WATER SUPPLY**

CITY AND COUNTY OF HONOLULU  
630 SOUTH BERETANIA STREET  
HONOLULU, HI 96843



June 16, 2003

JEREMY HARRIS, Mayor

EDDIE FLORES, JR., Chairman  
CHARLES A. STED, Vice-Chairman  
JAN M.L.Y. AMII  
HERBERT S.K. KAOPUA, SR.  
DAROLYN H. LENDIO

RODNEY K. HARAGA, Ex-Officio  
LARRY J. LEOPARDI, Ex-Officio

CLIFFORD S. JAMILE  
Manager and Chief Engineer

DONNA FAY K. KIYOSAKI  
Deputy Manager and Chief Engineer

RECEIVED

JUN 19 2003

Kauahikaua & Chun

Mr. Daniel Chun, FAIA  
Kauahikaua & Chun/Architects  
Kawaiahao Plaza Hale Mauka  
567 South King Street, Suite 108  
Honolulu, Hawaii 96813

Dear Mr. Chun:

Subject: Your Letter of June 2, 2003 on the Draft Environmental Assessment  
for the Canoe Halau at Makaha Beach Park, TMK: 8-4-1: 12; 8-4-2: 47

Thank you for the opportunity to comment on the proposed project.

The existing water system cannot provide adequate fire protection for the proposed Canoe Halau. Our standards require a fire flow of 2,000 gallons per minute (gpm). The existing water system can only provide a flow of approximately 1,300 gpm. The applicant will be required to install the necessary water system improvements to provide adequate fire flow. The construction drawings should be submitted for our approval.

The availability of water will be confirmed when the building permit is approved. When water is made available, the applicant will be required to pay our Water System Facilities Charges for resource development, transmission and daily storage.

The proposed project is subject to Board of Water Supply Cross-Connection Control and Backflow Prevention requirements prior to the issuance of the Building Permit.

If you have any questions, please contact Joseph Kaakua at 748-5440.

Very truly yours,

CLIFFORD S. JAMILE  
Manager and Chief Engineer

# KAUAHIKAUA & CHUN / ARCHITECTS

DWIGHT PAUHI KAUAHIKAUA, AIA  
DANIEL GARY CHUN, AIA

July 10, 2003

Honorable Clifford Jamile, Chief Engineer  
Board of Water Supply  
630 South Beretainia Street  
Honolulu, Hawaii 96813

Subject; Canoe Halau at Makaha Beach Park  
Draft Environmental Assessment

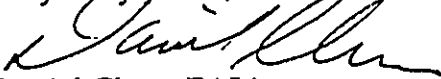
Dear Mr. Jamile,

Thank you for your comments on the Draft Environmental Assessment for this project. The City & County of Honolulu Department of Design & Construction is having published a Finding of No Significant Impact (FONSI) determination to be published in the July 23, 2003 OEQC Environmental Notice.

Based on the latest discussion with your staff, the water system in the area will be upgraded in a BWS-funded construction project that is scheduled to be completed in 2004. This upgrade should bring the fire flow up to current standards.

The construction drawings will be submitted for BWS approval to confirm adequacy of fire flow with respect to this project, confirm availability of water, payments to the Board, and other technical requirements.

Very truly yours,

  
Daniel Chun, FAIA  
Project Architect

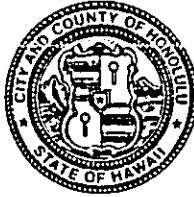
KAWAIAHAO PLAZA HALE MAUKA  
567 SO. KING STREET SUITE 108  
HONOLULU, HAWAII 96813

Phone (808) 526-2283  
Fax (808) 599-4723



DEPARTMENT OF PARKS AND RECREATION  
**CITY AND COUNTY OF HONOLULU**

650 SOUTH KING STREET, 10TH FLOOR • HONOLULU, HAWAII 96813  
TELEPHONE: (808) 523-4182 • FAX: (808) 527-5725 • INTERNET: [www.co.honolulu.hi.us](http://www.co.honolulu.hi.us)



JEREMY HARRIS  
MAYOR

WILLIAM D. BALFOUR, JR.  
DIRECTOR

EDWARD T. "SKIPPA" DIAZ  
DEPUTY DIRECTOR

June 16, 2003

RECEIVED

JUN 19 2003

Kauahikaua & Chun

Mr. Daniel Chun, FAIA  
Kauahikaua & Chun/Architects  
Kawaiahao Plaza  
567 S. King Street, Suite 108  
Honolulu, Hawaii 96813

Dear Mr. Chun:

Subject: Draft Environmental Assessment  
Canoe Halau at Makaha Beach Park

Thank you for the opportunity to review and comment on the Draft Environmental Assessment relating to the Canoe Halau at Makaha Beach Park.

The Department of Parks and Recreation has no comment on the draft.

Should you have any questions, please contact Mr. John Reid, Planner, at 692-5454.

Sincerely,

A handwritten signature in black ink that reads "W.D. Balfour". The signature is written in a cursive, slightly slanted style.

WILLIAM D. BALFOUR, JR.  
Director

WDB:mk  
(27291)

# KAUAHIKAUA & CHUN / ARCHITECTS

DWIGHT PAUHI KAUAHIKAUA, AIA  
DANIEL GARY CHUN, FAIA

July 10, 2003

Honorable William D. Balfour, Director  
City & County of Honolulu Department of Parks & Recreation  
650 South King Street  
Honolulu, Hawaii 96813

Subject; Canoe Halau at Makaha Beach Park  
Draft Environmental Assessment

Dear Mr. Balfour,

Thank you for your comments on the Draft Environmental Assessment for this project. The City & County of Honolulu Department of Design & Construction is having published a Finding of No Significant Impact (FONSI) determination to be published in the July 23, 2003 OEQC Environmental Notice.

Very truly yours, -

  
Daniel Chun, FAIA  
Project Architect

KAWAIAHAO PLAZA HALE MAUKA  
567 SO. KING STREET, SUITE 108  
HONOLULU, HAWAII 96813

Phone (808) 526-2283  
Fax (808) 599-4723