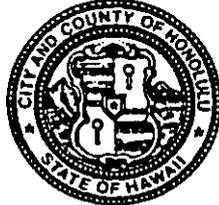


DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY AND COUNTY OF HONOLULU

650 SOUTH KING STREET, 11TH FLOOR
HONOLULU, HAWAII 96813
Phone: (808) 523-4564 • Fax: (808) 523-4567
Web site: www.co.honolulu.hi.us

JEREMY HARRIS
MAYOR



RECEIVED

TIMOTHY E. STEINBERGER, P.E.
ACTING DIRECTOR

GEORGE T. TAMASHIRO, P.E.
ASSISTANT DIRECTOR

03 MAR -5 P12:51

OFFICE OF ENVIRONMENTAL QUALITY CONTROL
February 27, 2003

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

Dear Ms. Salmonson:

Subject: Finding of No Significant Impact (FONSI) for
Nanakuli Beach Park Improvements
Tax Map Key: 8-9-001: 002

The Department of Design and Construction (DDC) has reviewed the comments received during the 30-day public comment period, which began on November 23, 2002. DDC has determined that this project will not have significant environmental effects and has issued a FONSI. Please publish this notice in the March 8, 2003, OEQC Environmental Notice.

We have enclosed a completed OEQC Publication Form and four copies of the final Environmental Assessment. Please call Mr. Harold Mau at 527-6330 if you have any questions.

Sincerely,

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

TIMOTHY E. STEINBERGER, P.E.
Acting Director

TES:gt

Enclosures
NANAKULI OEQC

MAR 23 2003

FILE COPY

Final Environmental Assessment

2002-03-23-OA-FEA-

(Nanakuli Beach Park Improvements)
Nanakuli, Oahu, Hawaii

Prepared Pursuant to Chapter 25
Revised Ordinances of Honolulu

Prepared for:

Department of Design and Construction
City and County of Honolulu

Prepared by:

Engineers Surveyors Hawaii, Inc. and
Environmental Communications, Inc.

February 2003

Final Environmental Assessment

Nanakuli Beach Park Improvements
Nanakuli, Oahu, Hawaii

Prepared Pursuant to Chapter 25
Revised Ordinances of Honolulu

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City and County of Honolulu

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February 2003

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APPENDICIES

Appendix A Archaeological Monitoring Plan prepared by Aki Sinoto Consulting

I. PROJECT SUMMARY

APPLICANT: Dept. of Design and Construction
City and County of Honolulu
650 South King Street
Honolulu, Hawaii 96813

AGENT: Engineers Surveyors Hawaii, Inc.
900 Halekauwila Street
Honolulu, Hawaii 96814

PROJECT NAME: Nanakuli Beach Park Improvements

PROJECT LOCATION: Nanakuli Beach Park
Nanakuli, Oahu, Hawaii

TAXMAPKEY/ OWNERSHIP: 8-9-001: 002 City and County of Honolulu and
State of Hawaii

LOT AREA: 30.001 acres

ZONING: P-2, General Preservation

DEVELOPMENT PLAN: Parks and Recreation

DEVELOPMENT PLAN AREA: Waianae

STATE LAND USE: Urban

CURRENT LAND USE: Existing City and County Park with improvements
including a recreation building and restroom
facility, picnic tables and on-site parking.

NATURE OF DEVELOPMENT: The proposed action consists of comprehensive park
improvements that will include reconstruction of
roadways and parking areas, road extension, wall
repairs, new paving for unimproved areas and
general park improvements.

PROJECT COST: The total cost of the proposed improvements is
approximately \$400,000. The scope of work will be
conducted in a single continuous phase.

II. PROPOSED PROJECT AND STATEMENT OF OBJECTIVES

A. Project Location

The proposed improvements are located on the existing Nanakuli Beach Park, Nanakuli, Oahu, Hawaii. The project site is also identified as TMK: 8-9-001: 002

The project parcel consists of lands located east, south and west of the Nanaikapono Elementary and Intermediate School. This continuous shoreline parcel includes sandy beach areas east and westerly of the school site. The shoreline are fronting the school parcel is rocky and is not park of the school site. The sandy area west of the school site is known as Ulehawa Beach Park and the sandy area east of the school is known as Nanakuli Beach Park.

The project improvement area is located along the western end of the beach park parcel known as Nanakuli Beach Park. Improvements will begin east of the existing parking lot and will extend to the Nanakuli Stream. The park is accessed via Farrington Highway to the north.

B. Project Description

The proposed improvements are initiated as a community-visioning project by the Nanakuli community. These improvements are limited to the Nanakuli Beach Park portion of the project parcel. The proposed action is limited to basic park repair and improvements and will not change the nature of the park use nor the intensity and capacity of the park. Rather, the proposed improvements enhance the park for existing users and the surrounding community. The proposed improvements reflect the intent of this community initiative and are described in detail as follows.

1. Reconstruction of Paved Areas

All existing paved areas, including roadways and parking areas will be repaved. The reconstructed pavement section will typically consist of 2- inches of asphalt concrete pavement over a 12-inch base course. Presently, the existing paved areas are in severely deteriorated in many areas and will likely erode further rendering the road surfaces hazardous and unsuitable for vehicular and pedestrian use.

2. Improved Access and Security to Overflow Parking

Access to an existing overflow parking area will be improved by relocating the existing chain fence and metal posts that are located west of the existing parking area. Removal of the access control will improve access along the interior access road and will allow overflow parking along the road to the existing overflow

parking area. A new security chain gate closure will be located at the entrance of the existing overflow parking area. These two improvements will facilitate a smoother flow of traffic into the park while securing the existing overflow parking area for specific event use. The improvements are not intended to allow for significant park use increases but are proposed to better organize parking within the park.

Accessible parking stalls with access aisles and a walkway system to the improved horseshoe pitching area will also be provided. Signage posting park regulations will also be installed.

3. Repair Fencing Along Railway

Existing chain and metal post fencing located between the interior access road and the former railroad right-of-way will be repaired as necessary.

4. Repair Rock Wall and Install Barrier

The existing rock wall and chain link fence located along the pedestrian walkway from the interior access road to Nanakuli Stream will be repaired as necessary. New chain fencing will also be added from the western end of the walkway to the marshy area to protect the area from pedestrians and vehicles attempting to access these natural drainage areas. Access to the eastern most campsites is still conveniently accessible along the improved road.

5. Speed Bumps

Speed bumps and/or humps will be added throughout the park roadway system as a means to control vehicular speed. Signage posting speed limits will also be provided.

6. Rock Wall Repairs and Wheel Stops

Individual campsite areas will be provided with raised wheel stops to prevent vehicles from hitting the rock walls identifying the individual campsites. The rock walls will also be repaired as necessary. Raised concrete walkways and ramps will be constructed for pedestrian access to the campsites from the parking stalls.

7. Roadway Extension

The makai most portion of the interior road along the eastern most portion of the site will be extended by approximately 20 feet beyond the end of the edge of the roadway pavement. The halau roadway extension (approximately 140 linear feet) will be constructed under a separate phase of the park improvements.

8. Pave Dirt Parking Area

The existing dirt parking area located along the western terminus of the interior circulation road will be paved to prevent erosion and to ensure effective and safe utilization of the area. Existing trees will be removed and disposed as necessary to prevent pavement uplifting. This improvement is not intended to increase park capacity but are provided to prevent erosion, improve space utilization and improve the park's appearance.

9. Chain Gate

A removable chain barrier or post barrier at the western terminus of the interior circulation road will be added to restrict automobile access to the beach. This improvement is intended to keep vehicles off the sand beach. No campsites are located beyond this terminus.

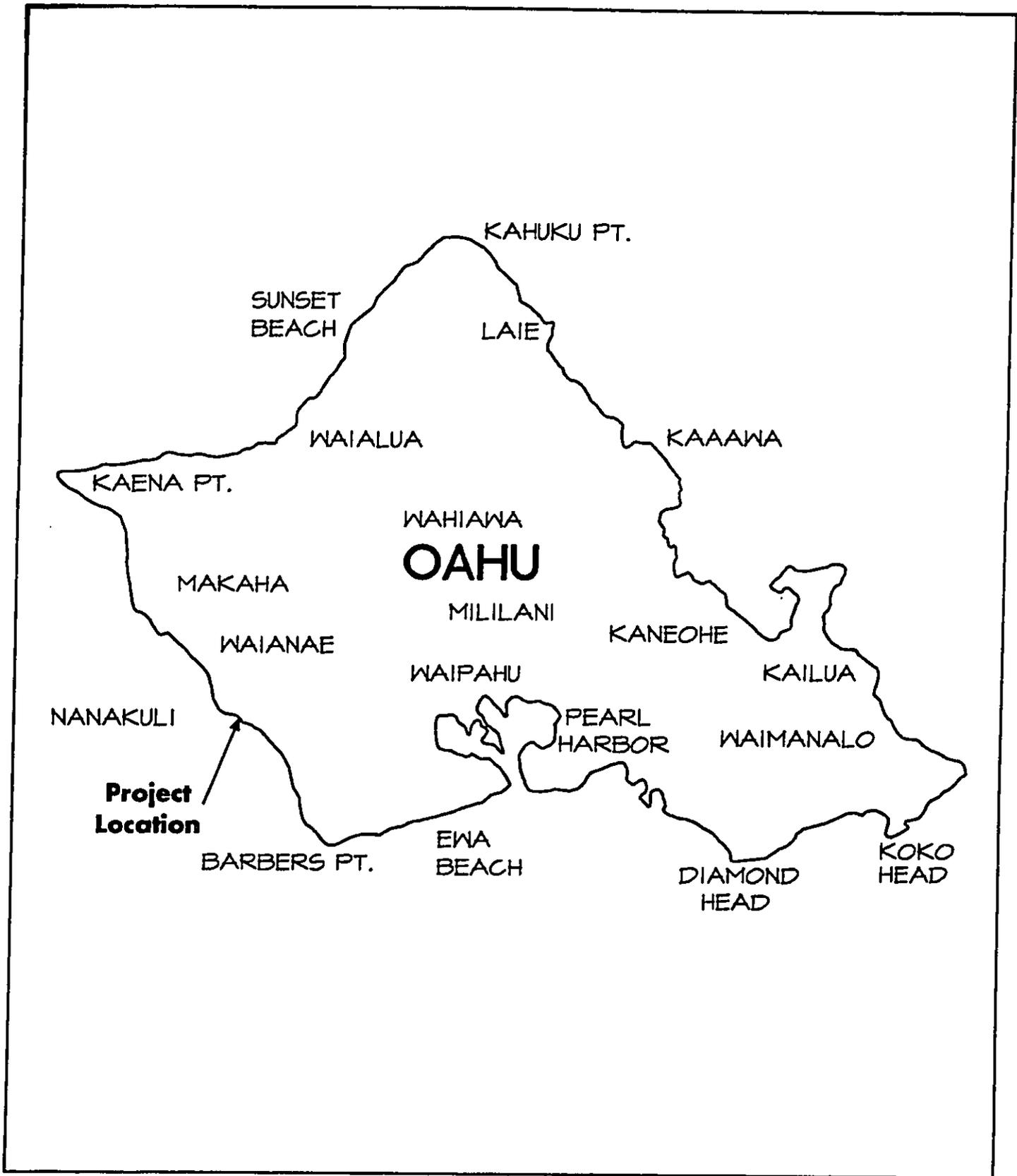
10. Horseshoe Pitching Area

The three existing horseshoe-pitching areas will be reconfigured and reconstructed in accordance with National Horseshoe Pitchers Association regulations. In addition, a fourth pit that features an extra-wide perimeter walkway will be added for wheelchair accessibility.

C. Project Objective

The proposed improvements are aimed at providing park users with a more accessible and pleasant park experience. The proposed improvements will provide a healthier environment for park users, as well as enhance recreational opportunities.

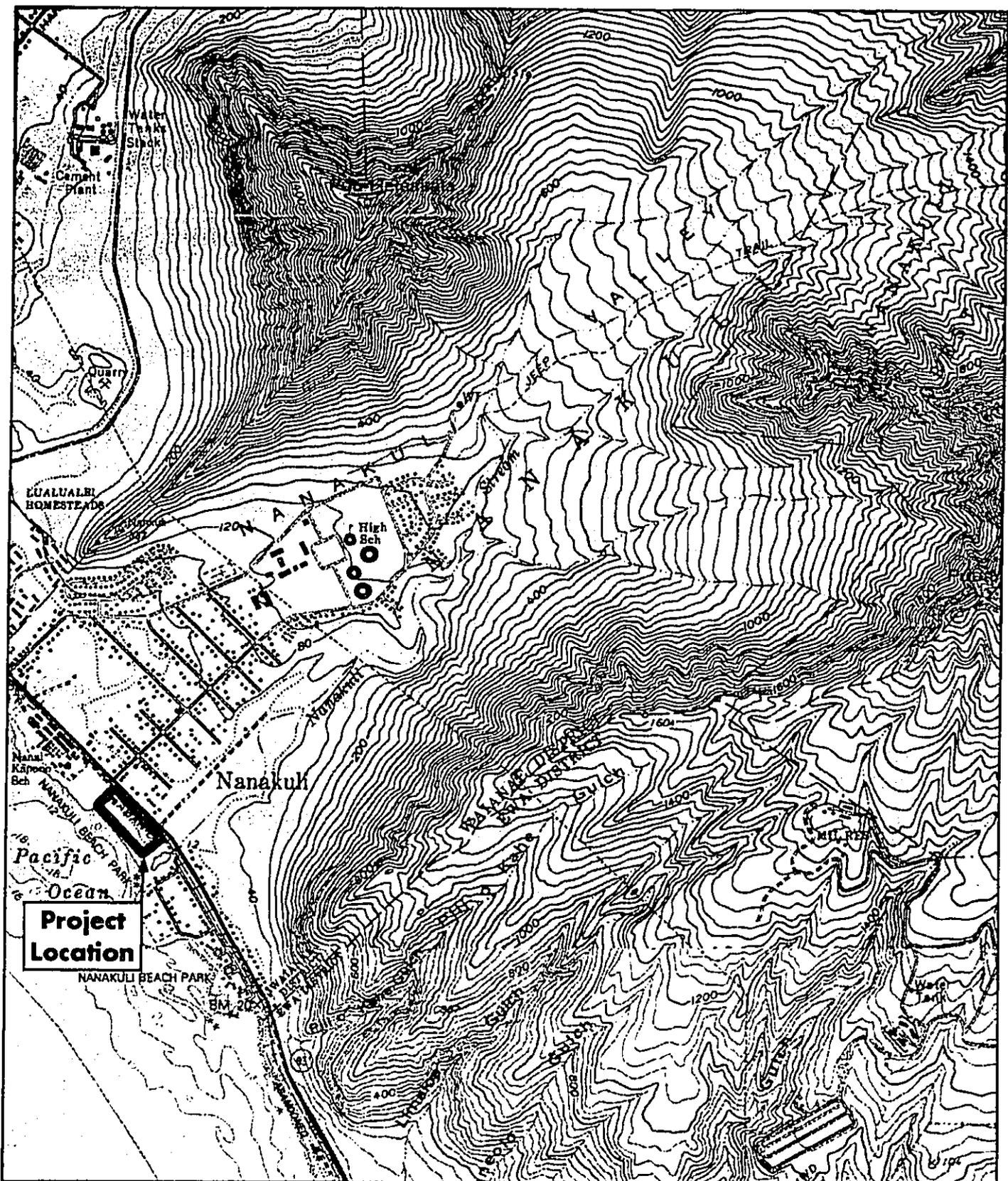
Site improvements will significantly improve the physical environment and will transform the Nanakuli Beach Park into a new community centerpiece. Safety, convenience and sound environmental mitigation will provide the park with the necessary improvements to create a highly desirable community asset.



Nanakuli Beach Park Improvements
 Final Environmental Impact Statement
 Environmental Communications, Inc.



Figure 1
Vicinity Map
 Not to scale



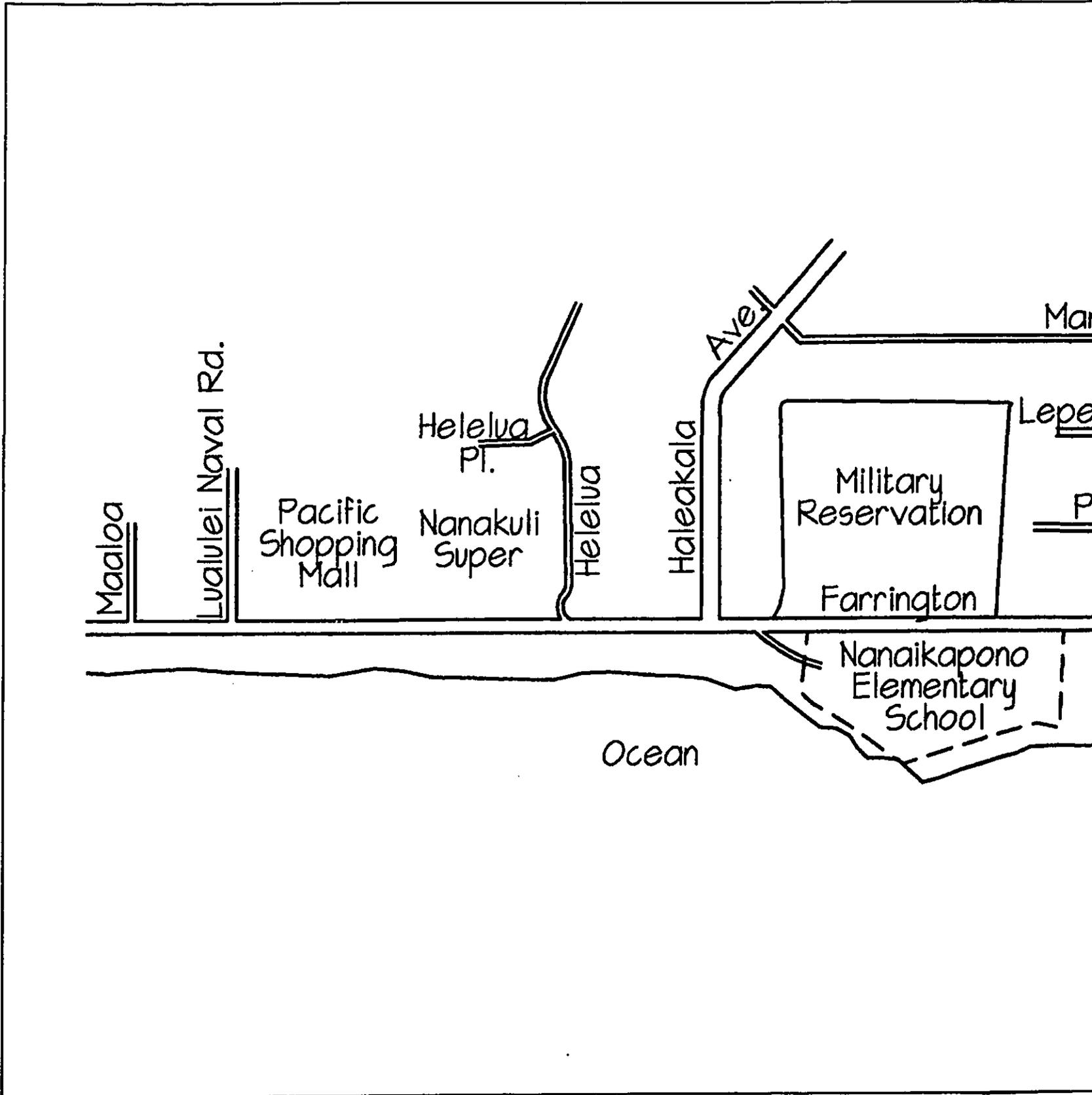
Nanakuli Beach Park Improvements
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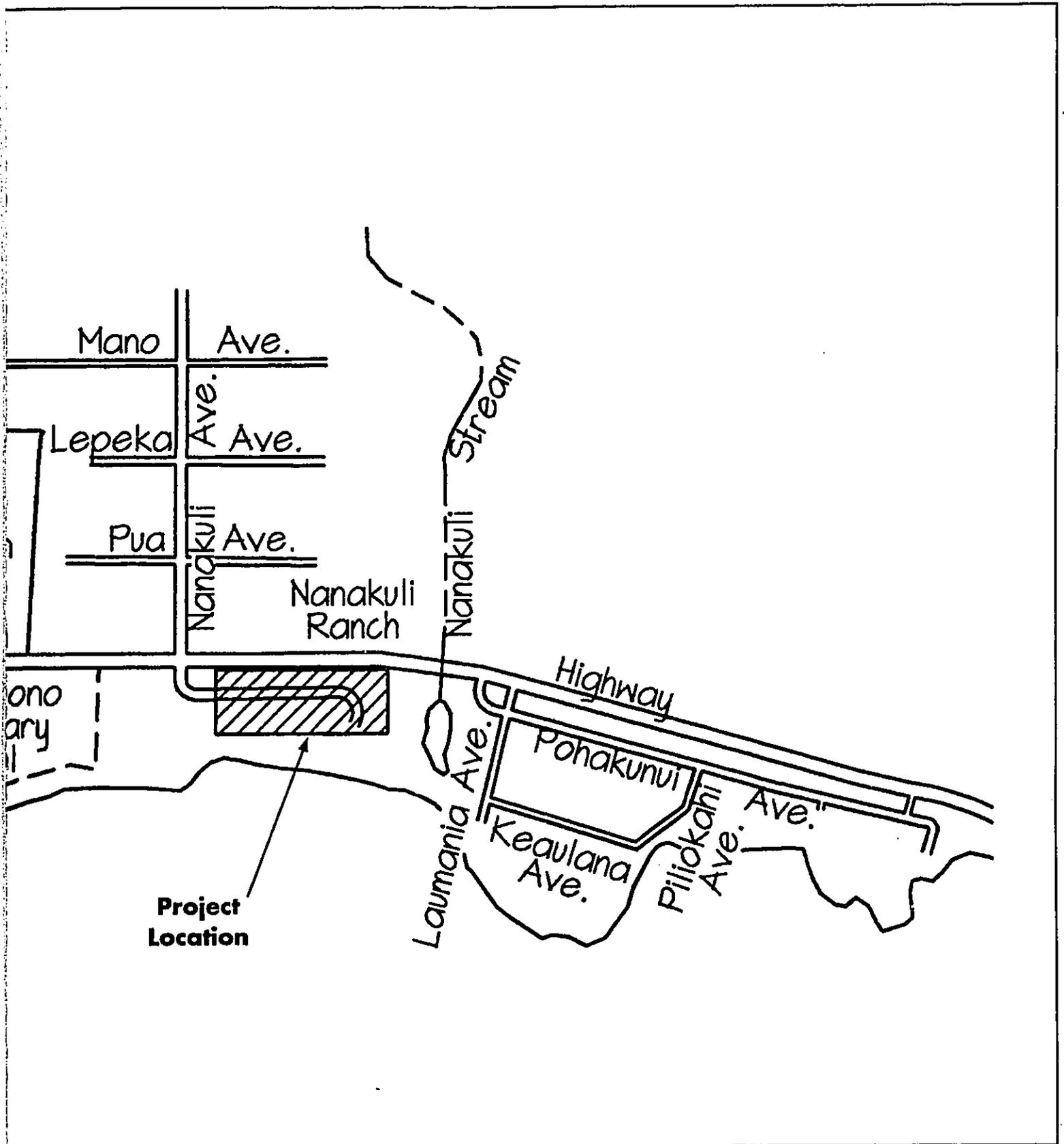


Figure 2
Location Map

Scale: 1:24000

Source: U.S. Geological Survey



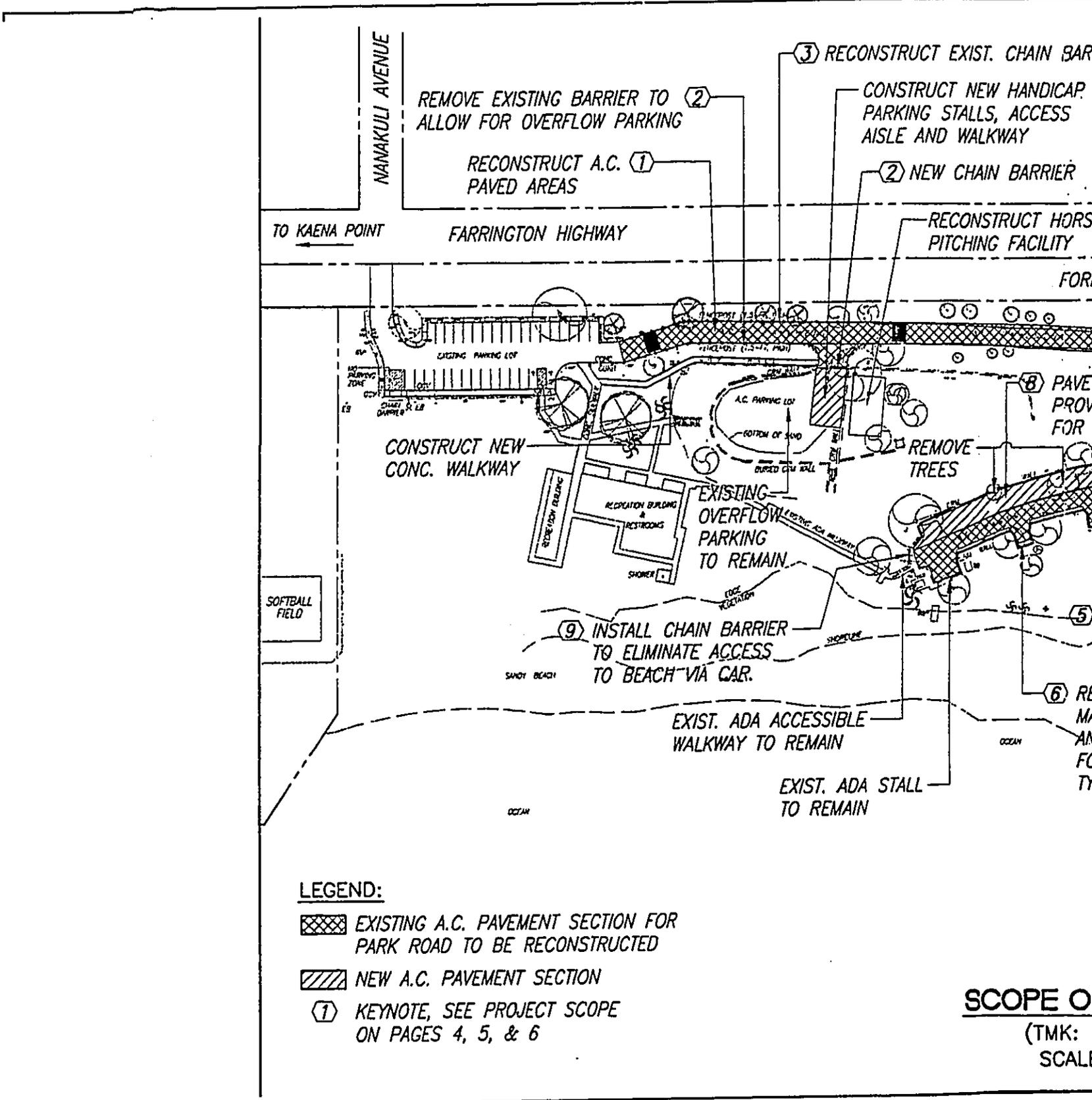


Project Location



Figure 3
Site Plan
 Not to scale

Source: Engineers Surveyors Hawaii, Inc.



Nanakuli Beach Park Improvements
 Final Environmental Impact Statement
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ST. CHAIN BARRIER AS NECESSARY

EW HANDICAP
LS, ACCESS
LKWAY

AIN BARRIER

STRUCT HORSESHOE
NG FACILITY

TO HONOLULU

FORMER 40' RAILROAD ROW

REMOVE TREE

8 PAVE DIRTY PARKING LOT
PROVIDE TREE WELLS
FOR EXISTING TREES.

4 RECONSTRUCT ROCK WALL TO
MAINTAIN STRUCTURAL INTEGRITY.
INSTALL BARRIER TO BLOCK THE
DIRT ROAD TO CAMP SIDE AND BEACH.

5 ADD SPEED BUMPS
ALONG ROADWAY;
TYPICAL.

7 NEW CHAIN BARRIER

FUTURE ROADWAY
IMPROVEMENTS

6 RECONSTRUCT ROCK WALL TO
MAINTAIN STRUCTURAL INTEGRITY
AND INSTALL CONCRETE WALKWAYS
FOR CAMPSITE PARKING AREA,
TYPICAL.

7 EXTEND ROADWAY FOR
FUTURE CANOE HALAU.

NANAKULI STREAM

COPE OF WORK PLAN

(TMK: 8-9-01:02)

SCALE: 1"=100'

100 50 0 100 200



Graphic Scale in Feet

Figure 4
Scope of Work Plan

III. DESCRIPTION OF ANTICIPATED IMPACTS

A. Environmental Setting

The project site is located on a relatively flat grassed area flanked by a sandy and rocky shoreline that changes with seasonal surf. The park is 30 acres in size, and consists of approximately 2,000 linear feet of shoreline frontage. A parking lot, recreation building, comfort station and campsite improvements are presently available on-site however the existing internal circulation system is in need of improvement. Better utilization of the park site is also desirable to allow the natural drainage area to recover and to provide access for a future canoe halau.

A former 40-foot railroad right-of-way is located along the northern boundary of the park site between Farrington Highway and the improved park area. This serves as a transitional buffer area that provides the park with some relief from the high levels of traffic along the Farrington Highway arterial.

The shoreline fronting the park varies from expansive sand area with minimal turf to grassed areas that abruptly drop into rocky shoreline. Exposed reef is found throughout the length of the beach. The Nanakuli Stream estuary is intermittently open to the ocean during heavy rains and large surf conditions. Most of the year, the estuary remains closed by accreted sand which creates a sand depression or ponding of stormwater runoff.

An existing recreation complex and comfort station is located along the western side of the improvement area, makai of the existing parking lot. Sidewalks provide access from the parking lot to the recreation building and the overflow parking area. Handicap parking is available in the existing parking lot and sidewalks allow for handicap access to the main park structures.

Existing vegetation is limited to a Banyan, Hau, Keawe and Coconut trees, Koa Haole, grass and weeds.

Picnic tables and trash receptacles are found throughout the site in proximity to the camp areas.

B. Surrounding Uses

The Nanakuli Beach Park is located a highly urbanized portion of Nanakuli. The intersection of Nanakuli Avenue and Farrington Highway is a central point within the Nanakuli community. While the park is zoned for general preservation use at the County level, surrounding uses are zoned for residential use. Nanaikapono School lies immediately to the west of the improvement area, while Nanakuli Avenue, which is located across the park, leads to the Nanakuli High School.

C. Environmental Considerations

1. Geological Characteristics

Topography

Turfed portions of the park are relatively flat with less than 5% variation in slope. Minor grade changes towards Nanakuli Stream. Larger topographic variations occur beyond the grassed areas toward the shoreline. Along the shoreline, variations in topography range from gradual sand slopes to the ocean to abrupt transitions where erosion from surf results in a drop-off of approximately 4 feet.

Climate

While Hawaii is generally characterized as being temperate, the geography of the Waianae/Nanakuli District is notable for its prevailing dry, warm climate. Rainfall in this area is the lowest of all coastal regions on Oahu. Prevailing tradewinds are diminished by the Waianae mountain range, contributing to the general arid feeling of the coast.

According the *Atlas of Hawaii, Second Edition*, the Waianae District typically experiences less than 5 inches of rainfall during peak rainfall months. Average mean temperatures on the Waianae coast range from mean highs between 80 and 90 degrees to mean lows between 60 and 75 degrees Fahrenheit.

USDA Soil Survey Report

According to panel 43 of the *Soil Survey of Islands of Kauai, Oahu, Maui, Molokai, and Lanai, State of Hawaii* by the US Department of Agriculture Soil Conservation Service, the project site is located on soils classified as BS beach and MnC Mamala stony silty clay loam. Beach sand is typical of shoreline areas. Mamala stony silty clay loam is consists of coral rock fragments and well-drained soils typically found along the coastal plains.

2. Water Resources

The project site is located along the western coast of Oahu. Surf conditions along this coast are generally calm except during the winter high surf season. The shoreline fronting the project site consists of sandy and rocky shoreline and is well suited for recreational use. The non-perennial Nanakuli Stream crosses the along the eastern project boundary. This stream also serves as a major drainage source for the mauka Nanakuli area and abuts a marshy basin that is created by retained drainage that has not yet breached the shoreline. While generally dry, this area is not suitable for recreational use and is not a wildlife habitat nor as a scenic resource.

Hydrologic Hazards and Resources

According to Panel 150001 0100 C of the Federal Emergency Management Agency Flood Insurance Rate Map, the project site is located in Zones VE and AE. Areas in Zones VE and AE have been determined to have coastal base flood elevations of 12 to 13 feet above mean sea level.

Tsunami Inundation

The Civil Defense Tsunami Inundation Maps indicate that the project site is vulnerable to tsunami inundation (GTE Hawaiian Tel).

Special Management Area

The project site is located within the Special Management Area (SMA) and is consequently subject to the provisions of Chapter 205A Hawaii Revised Statutes and Chapter 25, Revised Ordinances of Honolulu. This environmental assessment will be used to fulfill the requirements for a Special Management Area Use Permit (SMP), which will be filed under separate cover.

3. Archaeological, Botanical and Faunal Resources

Archaeological Resources

The Department of Land and Natural Resources (DLNR) has conducted a preliminary review of the project improvements and noted that the area consists primarily of Beach Sand deposits which are known to contain significant historic sites. Consequently, DLNR recommends that prior to any ground disturbance, consultation with knowledgeable individuals and organizations should be conducted to determine if any culturally sensitive sites are in the area.

The department also noted that the site has been extensively altered and it is unlikely that surface historic sites remain. The one exception is a portion of the OR&L railway (site 50-80-12-9714) that runs between Farrington Highway and the park.

DLNR typically recommends that an archaeological inventory survey of the proposed project be performed to determine if any historic sites are present within the park area. Due to the extensive and intensive use of the park, it was also suggested that an archaeological monitoring plan may suffice for the proposed scope of improvement. If this work is conducted by a qualified archaeologist, in accordance with an approved monitoring plan, DLNR has stated that the proposed improvements will have "no adverse effect" on significant historical sites.

A copy of the archaeological monitoring plan for the proposed action is attached as Appendix A.

Flora

The project site is presently covered with grass and various weedy species, as well as trees and shrubs such as Banyan, Keawe, Koa Haole, Coconut and Hau, all of which are common in beach areas. No rare or endangered species of flora were identified on the park site, and no adverse impacts will occur to flora as a result of the implementation of park improvement plan objectives.

Fauna

The site does not serve as a wildlife habitat although avifauna, feral cats, dogs and rodents may be found on-site.

4. Infrastructure and Utilities

The proposed improvements are not expected to have a significant impact on existing infrastructure and utilities. The proposed improvements are intended to provide a healthier environment and convenience with only minimal infrastructure expansion.

Vehicular Access and Traffic Conditions

No vehicular access improvements to the park entry are planned within the current scope of work. As recommended by the Department of Transportation Services, the project will be coordinated with the State Department of Transportation to ensure that no impacts will occur on Farrington Highway. Vehicular circulation with the park will be significantly improved by the proposed action. All paved areas in need of repair will be reconstructed while unpaved roads and parking areas will be paved. These measures will minimize erosion, provide stable pavement sections for traffic loading, and will provide improved roadway definition. Speed bumps and/or humps will be added throughout the park roadway system to control traffic speed. Redirection of traffic past the overflow parking area will eliminate any confusion within the site and will be provided for an organized parking scheme.

Water

The project will continue to be serviced by existing waterlines. No plumbing fixtures will be added in the proposed scope of work therefore demand for water service will not increase.

Wastewater

The Department of Wastewater Management has indicated that the municipal wastewater system will not be affected by the proposed project since no additional water fixtures will be incorporated into the project. Drainage

The site is presently naturally drained. Storm runoff will not run into the City's storm runoff system. Because the site largely consists of sand and coral, the site is well drained. The East Makaha Stream serves as a collector for Makaha Valley storm runoff and outflows through the park. In addition, a second storm drain channel is located on the western portion of the site. All storm water runoff from the proposed improvements will be reviewed for conformance with City and County of Honolulu Ordinance 96-34 regarding peak runoff.

Solid Waste

It is expected that City and County refuse collection service will continue to be used to service the project location.

Telephone and Electrical Services

Telephone and electrical services are presently provided to the site. The proposed improvements do not include lighting or telephone service expansion. In the event that such services are deemed appropriate for the site, connections can be readily made to service lines located at the recreation building.

5. Public Facilities

The proposed project is not expected to have any impact on public facilities including schools, police, and fire or emergency medical services.

Nanakuli Fire Station Number 28 provides fire protection service to the project area. The station is located at 89-334 Nanakuli Avenue and is located 2 blocks from the project site. Response time to the park is less than 5 minutes.

Ambulance service for the project vicinity is located at the Waianae Fire Station Number 26. Response time to the project site is approximately 10 minutes.

Police service is provided by the Honolulu Police Department Waianae Station located at 85-939 Farrington Highway. Response time to the Beach Park is approximately 5 minutes or less, depending on the location of patrol units. Beats 860 and 863 patrol the project area.

D. Relationship to Plans, Codes and Ordinances

The project site is zoned P-2 General Preservation according the City and County of Honolulu Zoning Map. Park uses are consistent with this designation. The Development Plan Designation for the site is Parks and Recreation, which is also consistent with the existing and proposed use.

The State Land Use Commission Boundary Maps identify the project site as being within the Urban area. This is consistent with the surrounding uses that include commercial uses and single-family to medium density residential units. The site is owned by the State of Hawaii according to the City and County of Honolulu Real Property Assessment Division.

Due to its location within the Special Management Area (SMA) boundaries, a Special Management Area Use Permit (SMP) is required for this project.

E. Probable Impact on the Environment

It is anticipated that the proposed project will significantly improve the existing site conditions to provide a healthier environment. These improvements and public benefits will occur as a result of the additional amenities, safety improvements, parking, conveniences and park beautification.

Positive environmental impacts are expected to enhance park use and desirability. As stated in the project description, the proposed improvements are based on a community input process that identified salient needs, major concerns, and long-term goals. Each of these areas has been addressed by the proposed improvements, as have other initiatives not part of this specific improvement plan.

F. Adverse Impacts Which Cannot be Avoided

Adverse impacts that cannot be avoided are generally related to short-term construction impacts. These impacts can be minimized by sound construction practices, adherence to applicable construction regulations as prescribed by the Department of Health, and coordination with applicable County agencies.

G. Alternatives to the Proposed Action

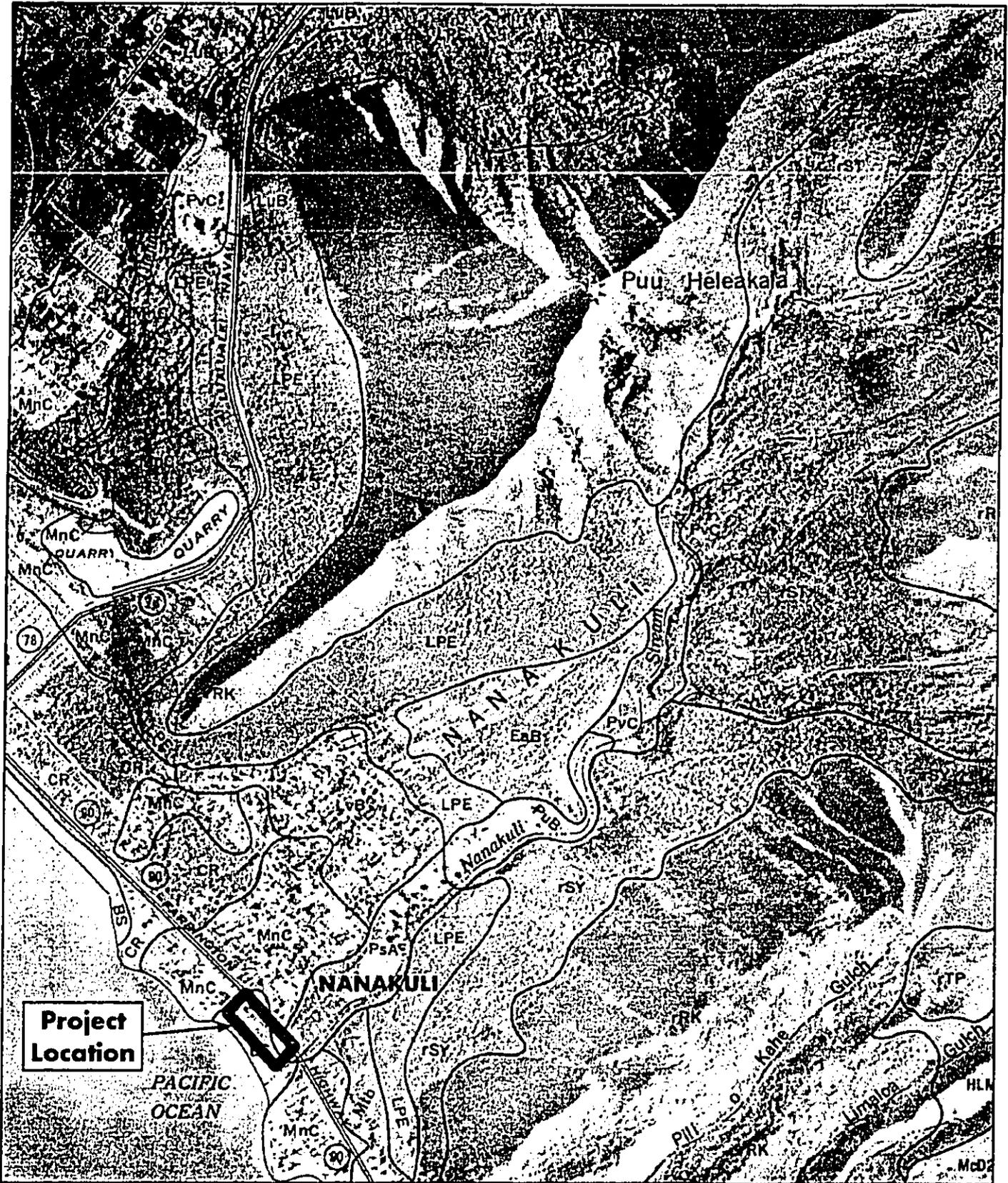
No other use alternatives beyond the non-action alternative were considered for this project. Non-action was considered and rejected since no benefit to the community would be provided. Within the scope of proposed improvements, alternative circulation configurations were considered and rejected.

H. Mitigation Measures

Long-term impacts resulting from the proposed improvements are expected to be minimal or non-existent based upon the subject environmental assessment. Long-term traffic, air and noise impacts are not expected to change significantly after improvements are completed. Short-term construction related noise and air quality impact mitigation measures include general good housekeeping practices and scheduled maintenance to avoid a prolonged construction period. The contractor will be directed to use best management practices (BMP) wherever applicable.

I. Irreversible and Irretrievable Commitment of Resources

Implementation of the proposed project will result in the irreversible and irretrievable commitment of resources in the use of non-recyclable energy expenditure and labor. Materials used for new construction may have salvage value; however, it is unlikely that such efforts will be cost-effective. The expenditure of these resources is offset by gains in construction-related wages, increased tax base and tertiary spending.

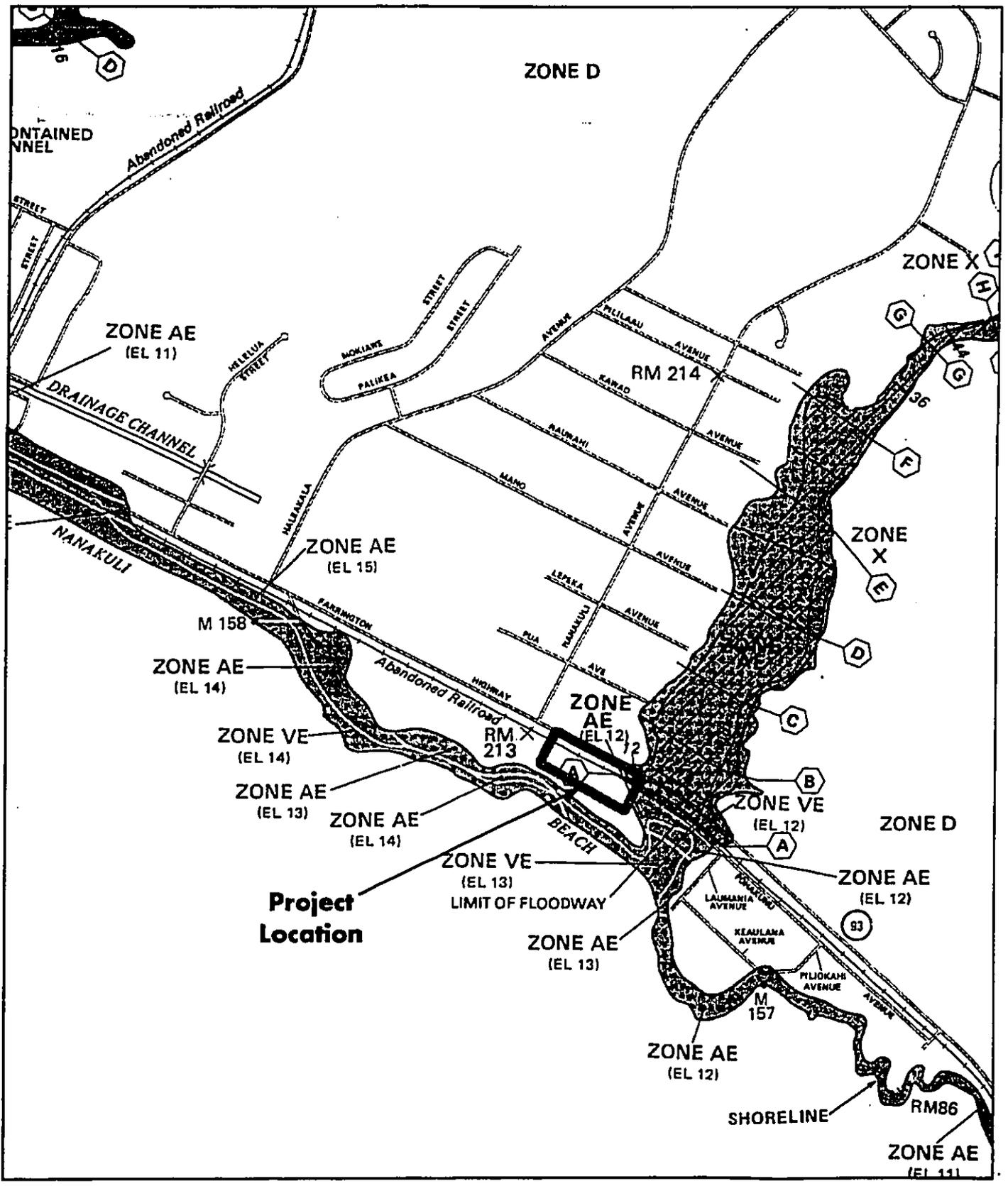


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Figure 5
Soils Map

Scale: 1.2 = 28800



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APPROXIMATE SCALE IN FEET
 1000 0 1000

Figure 6
Flood Insurance
Rate Map

page 19 Source: U.S. Department of Agriculture Soil Survey

DOCUMENT CAPTURED AS RECEIVED

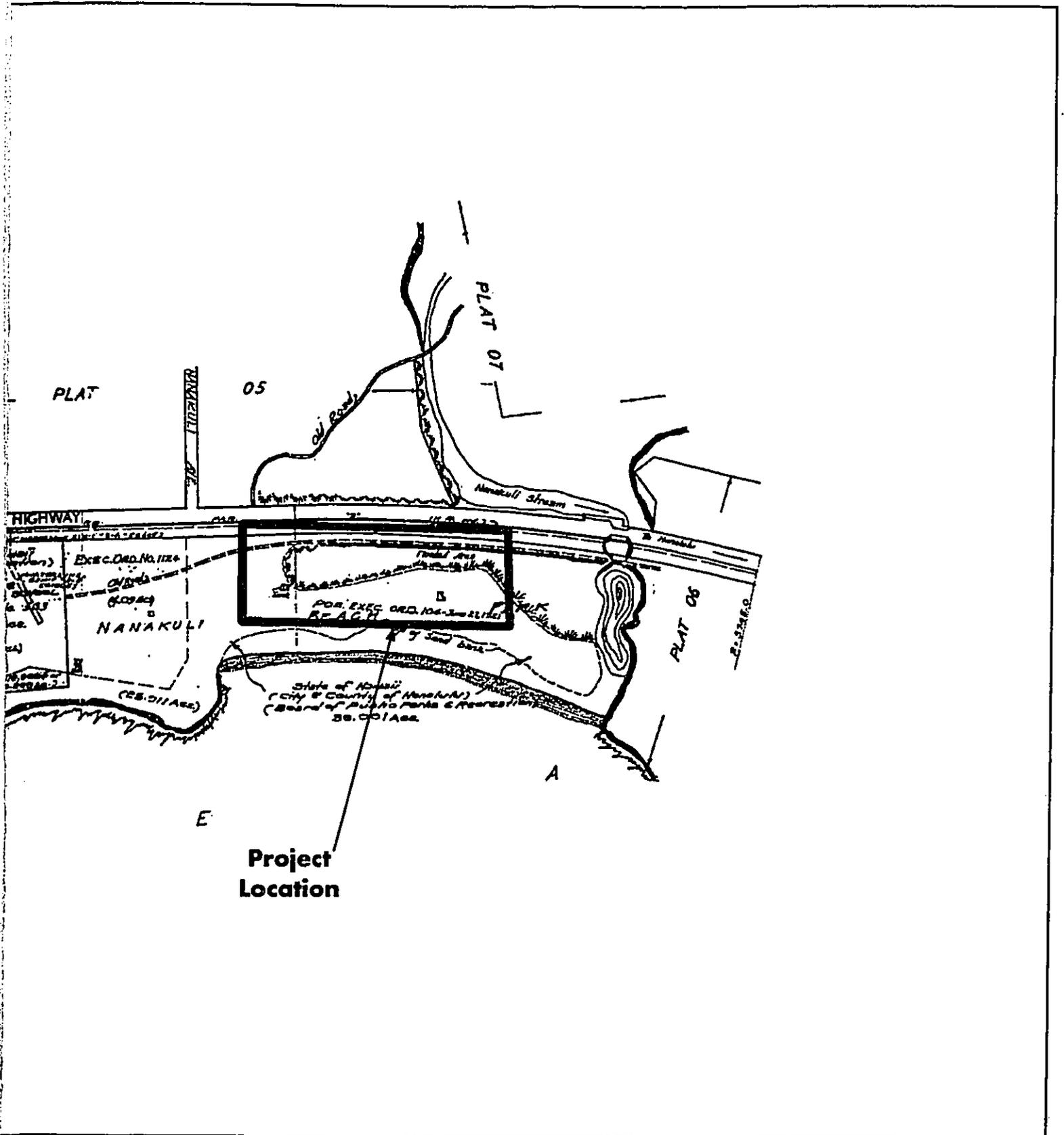
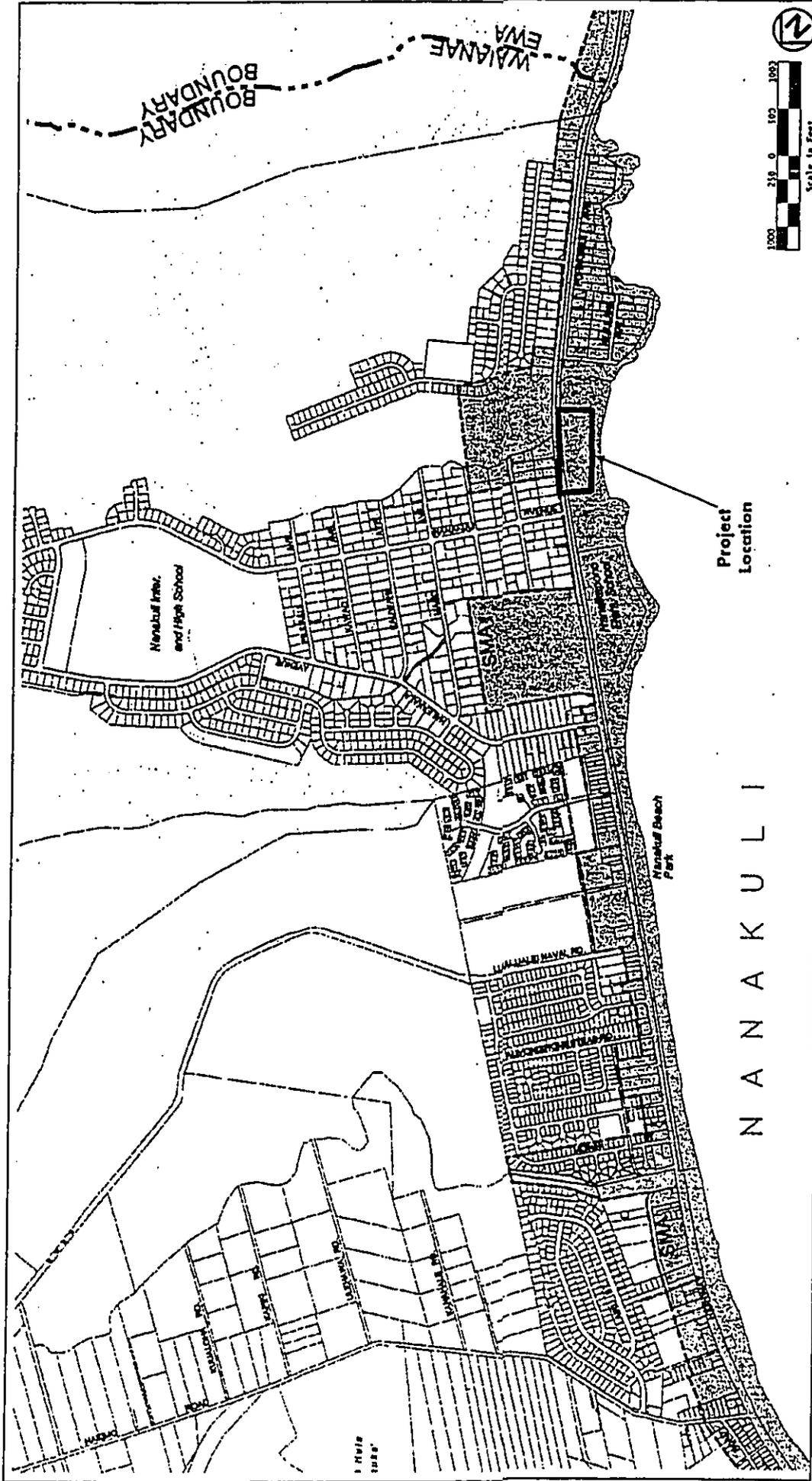


Figure 7
Tax Map
1" = 200'



Nanakuli Beach Park Improvements
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 Environmental Communications, Inc.

Figure 8
Special Management Area

Source: City & County of Honolulu; Department of Land Utilization

IV. FINDINGS AND REASONS SUPPORTING DETERMINATION

As stated in Section 11-200-12, EIS Rules, Significance Criteria: in determining whether an action may have a significant effect on the environment, every phase of a proposed action shall be considered. The expected consequences of an action, both primary and secondary, and the cumulative as well as the short-term and long-term effects must be assessed in determining if an action shall have significant effect on the environment. Each of the significance criteria is listed below and is followed by the means of compliance or conflict (if extant).

- Involves the loss or destruction of any natural or cultural resource.

The proposed action will occur on an existing developed site and will not impact any natural areas or cultural resources. The project will require the removal of a few Keawe trees however this impact is not considered significant.

- Curtails the range of beneficial uses of the environment.

The proposed use will result in additional benefit to the environment in its consistency with existing zoning regulations and in its improvement to existing site conditions.

- Conflicts with the State's long-term goals or guidelines as expressed in Chapter 343, Hawaii Revised Statutes.

The proposed action is consistent with the goals and guidelines expressed in Chapter 343, Hawaii Revised Statutes. The proposed action is triggered by the location of the proposed project within the Special Management Area. The subject Environmental Assessment has been developed in compliance with the Chapter 343.

- Substantially affects the economic or social welfare of the community or state.

The proposed action will make a positive contribution to the welfare of the City and State by providing an improved park with safety, accessibility and general amenities that will result in a desirable and more productive park.

- Substantially affects public health.

The proposed improvements are not expected to have any direct impact on public health. The proposed action does however represent a substantial improvement over existing site conditions and associated liabilities. Improvements that will result in greater safety include an improved parking area, improved roadways, speed bumps for speed control, paving of unpaved parking areas, rock wall repair and fencing to limit access to unsafe areas.

- Involves substantial or adverse secondary impacts, such as population changes or effect on public facilities.

The proposed action will not produce substantial secondary impacts resulting in population changes or significant increase in public facilities.

- Involves substantial degradation of environmental quality.

The proposed action will improve environmental quality through the creation of an improved park site. Paving of the unpaved parking areas and fencing to limit vehicular access to the beach and marsh areas will prevent erosion and will allow natural resource areas to remain undamaged by vehicles.

- Cumulatively have a considerable effect upon the environment or involve a commitment for larger actions.

The proposed action is not a first phase of, or related to, any larger action. The cumulative effect of the project is disclosed in this document (and associated figures) and does not involve any planned future actions that will cumulatively impact the environment. A canoe halau and roadway that are the subject of a separate funding and planning action will be required to prepare a separate environmental impact assessment.

- Affect rare, threatened or endangered species, or their habitats.

The proposed action will not affect any rare, threatened or endangered species of flora or fauna, nor is it known to be near or adjacent to any know wildlife sanctuaries.

- Detrimentially affect air or water quality or ambient noise levels.

The proposed action will not impact air or water quality. Noise levels may increase slightly due to an increase in use; however, this increase is not expected to exceed levels typically associated with park use.

Minimal impacts on air quality and noise are anticipated during construction, but will be limited by normal construction practices and Department of Health construction mitigation standards.

- Affect scenic vistas and viewplanes identified in County or State plans or studies.

The proposed action will not affect any scenic vistas or viewplanes. The project can be viewed as a beautification effort and will result in a more aesthetically pleasing environment.

- Require substantial energy consumption.

The project will not increase energy consumption.

Based on the above stated criteria, the accepting authority has determined that the subject action warrants a Finding of No Significant Impact (FONSI).

**V. LIST OF PARTIES CONSULTED PRIOR TO DEVELOPMENT OF THE
DRAFT ENVIRONMENTAL ASSESSMENT**

Agencies with ministerial or specific interests regarding the proposed project were contacted for their early comments regarding the proposed project. Parties responding to contact are listed below and their comments are attached in the following section.

Department of Parks and Recreation
City and County of Honolulu

Department of Planning and Permitting
City and County of Honolulu

Department of Transportation Services
City and County of Honolulu

Honolulu Fire Department
City and County of Honolulu

Honolulu Police Department
City and County of Honolulu

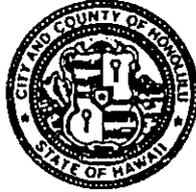
Department of Defense
Civil Defense Office
State of Hawaii

Department of Land and Natural Resources
Historic Preservation Division
State of Hawaii

DEPARTMENT OF PARKS AND RECREATION
CITY AND COUNTY OF HONOLULU

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

JEREMY HARRIS
MAYOR



WILLIAM D. BALFOUR, JR.
DIRECTOR

EDWARD T. "SKIPPA" DIAZ
DEPUTY DIRECTOR

October 4, 2001

Mr. Taeyong M. Kim, Principal Planner
Environmental Communications, Inc.
1188 Bishop Street, Suite 2210
Honolulu, Hawaii 96813

Dear Mr. Kim:

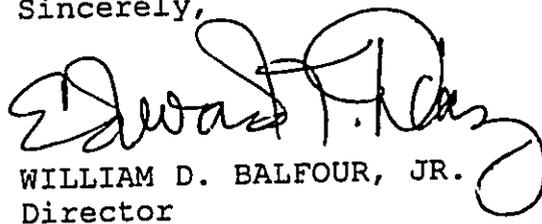
Subject: Nanakuli Beach Park Improvements
Draft Environmental Assessment

Thank you for the opportunity to review and comment on the Draft Environmental Assessment relating to the Nanakuli Beach Park Improvements.

The Department of Parks and Recreation has no comments other than to express our support for the proposed improvements.

Should you have any questions, please contact Mr. John Reid, Planner, at 547-7396.

Sincerely,


WILLIAM D. BALFOUR, JR.
Director

WDB:cu (4095)

cc: Mr. Don Griffin, Department of Design and Construction

DEPARTMENT OF PLANNING AND PERMITTING
CITY AND COUNTY OF HONOLULU

650 SOUTH KING STREET • HONOLULU, HAWAII 96813
TELEPHONE: (808) 523-4414 • FAX: (808) 527-6743 • INTERNET: www.co.honolulu.hi.us

JEREMY HARRIS
MAYOR



RANDALL K. FUJIKI, AIA
DIRECTOR

LORETTA K.C. CHEE
DEPUTY DIRECTOR

2001/ELOG-3963 (ask)

November 16, 2001

Mr. Taeyong M. Kim
Environmental Communications, Inc.
P. O. Box 536
Honolulu, Hawaii 96809

Dear Mr. Kim:

Environmental Assessment Consultation
Improvements at Nanakuli Beach Park
Tax Map Key 8-9-1: 02

We have reviewed the preliminary information that was transmitted regarding the preparation of an environmental assessment and offer the following comments:

1. The project site is within the Special Management Area and is subject to the requirements of Chapter 25, Revised Ordinances of Honolulu.
2. All improvements are subject to a 40-foot shoreline setback.

Should you have any questions, please contact Ardis Shaw-Kim of our staff at 5427-5349.

Sincerely yours,

A handwritten signature in cursive script, appearing to read "Ardis Shaw-Kim".

for RANDALL K. FUJIKI, AIA
Director of Planning
and Permitting

RKF:nt

cc: DDC

doc 122481

DEPARTMENT OF TRANSPORTATION SERVICES
CITY AND COUNTY OF HONOLULU

PACIFIC PARK PLAZA • 711 KAPIOLANI BOULEVARD, SUITE 1200 • HONOLULU, HAWAII 96813
TELEPHONE: (808) 523-4529 • FAX: (808) 523-4730 • INTERNET: www.co.honolulu.hi.us



JEREMY HARRIS
MAYOR

CHERYL D. SOON
DIRECTOR

GEORGE "KEOKI" MIYAMOTO
DEPUTY DIRECTOR

October 16, 2001

TPD9/01-04163R

Mr. Taeyong M. Kim, Principal Planner
Environmental Communications, Inc.
1188 Bishop Street, Suite 2210
Honolulu, Hawaii 96813

Dear Mr. Kim:

Subject: Nanakuli Beach Park Improvements

In response to your September 14, 2001 letter, the project information provided was reviewed. The following comments are the result of this review:

1. Farrington Highway is under the jurisdiction of the State Department of Transportation (SDOT). As such, the SDOT should review the subject proposal. The increase in vehicular volume due to the proposed additional parking may in turn necessitate modifications to the traffic signals.
2. The off-street parking areas for Nanakuli Beach Park should be designed whereby all of the parking needs of the park users are provided for off-street and on park grounds. The draft environmental assessment (EA) should describe all of the proposed park activities, such as the future canoe halau, and address the adequacy of the parking provided. Should the parking prove to be inadequate, parking problems and related traffic safety concerns would likely occur along Farrington Highway and the surrounding City-jurisdiction (e.g., Nanakuli Avenue, etc.) streets.

The draft EA should clarify whether Improvement No. 2, Remove existing barrier to allow for overflow parking, would add more parking for park users. The impact of Improvement Nos. 4 and 9, which block off access to the camp side and beach, on the provision of adequate off-street parking should also be discussed in the draft EA.

3. The subject project must comply with the Americans with Disabilities Act accessibility requirements. It is recommended that the subject project include provisions to allow

Mr. Taeyong, M. Kim
October 16, 2001
Page 2

access by TheHandi-Van or similar type paratransit vehicle, i.e., adequate turnaround space.

4. There are no bus stops located in the project area.

We look forward to reviewing the draft EA. Should you have any questions regarding these comments, please contact Faith Miyamoto of the Transportation Planning Division at 527-6976.

Sincerely,



CHERYL D. SOON
Director

cc: Department of Design and Construction
Department of Parks and Recreation

FIRE DEPARTMENT
CITY AND COUNTY OF HONOLULU

3375 KOAPAKA STREET, SUITE H425 • HONOLULU, HAWAII 96819-1869
TELEPHONE: (808) 831-7761 • FAX: (808) 831-7750 • INTERNET: www.co.honolulu.hi.us



JEREMY HARRIS
MAYOR

ATTILIO K. LEONARDI
FIRE CHIEF

JOHN CLARK
DEPUTY FIRE CHIEF

October 11, 2001

Mr. Taeyong M. Kim, Principal Planner
Environmental Communications, Inc.
1188 Bishop Street, Suite 2210
Honolulu, Hawaii 96813

Dear Mr. Kim:

Subject: Preparation of Draft Environmental Assessment
Nanakuli Beach Park Improvements
Tax Map Key: 8-9-001: 002

We received your letter dated September 14, 2001, regarding the above-mentioned project. The proposed project will not have an adverse impact on services provided by the Honolulu Fire Department.

Should you have any questions, please call Battalion Chief Kenneth Silva of our Fire Prevention Bureau at 831-7778.

Sincerely,

A handwritten signature in black ink, appearing to read "Attilio K. Leonardi".

ATTILIO K. LEONARDI
Fire Chief

AKL/SD:jo

POLICE DEPARTMENT
CITY AND COUNTY OF HONOLULU

801 SOUTH BERETANIA STREET
HONOLULU, HAWAII 96813 - AREA CODE (808) 529-3111
<http://www.honolulu-pd.org>
www.co.honolulu.hi.us

JEREMY HARRIS
MAYOR



LEE D. DONOHUE
CHIEF
MICHAEL CARVALHO
ROBERT AU
DEPUTY CHIEFS

OUR REFERENCE CS-KP

October 8, 2001

Mr. Taeyong M. Kim
Principal Planner
Environmental Communications, Inc.
1188 Bishop Street, Suite 2210
Honolulu, Hawaii 96813

Dear Mr. Kim:

Thank you for the opportunity to review and comment on the proposal for improvements to the Nanakuli Beach Park.

This project should have no significant impact on the facilities or services provided by this department

If there are any questions, please call Ms. Carol Sodemani of the Support Services Bureau at 529-3658.

Sincerely,

LEE D. DONOHUE
Chief of Police

By 
EUGENE UEMURA
Assistant Chief of Police
Support Services Bureau

Serving and Protecting with Aloha

BENJAMIN J. CAYETANO
GOVERNOR

MAJOR GENERAL EDWARD L. CORREA, JR.
DIRECTOR OF CIVIL DEFENSE

EDWARD T. TEIXEIRA
VICE DIRECTOR OF CIVIL DEFENSE



PHONE (808) 733-4300

FAX (808) 733-4287

STATE OF HAWAII
DEPARTMENT OF DEFENSE
OFFICE OF THE DIRECTOR OF CIVIL DEFENSE
3949 DIAMOND HEAD ROAD
HONOLULU, HAWAII 96816-4495

November 28, 2001

Mr. Taeyong M. Kim
Environmental Communications, Inc.
1188 Bishop Street, Suite 2210
Honolulu, Hawaii 96813

Dear Mr. Kim:

Preparation of Draft Environmental Assessment (EA);
Nanakuli Beach Park Improvements

We appreciate the opportunity to review and comment on the subject proposal.

We do not have any comment or recommendation with regard to this project. Our State Civil Defense (SCD) planners and technicians are available to discuss this further if there is a future requirement.

Should you have any questions, please contact Mr. Norman Ogasawara at 733-4300, extension 531.

Sincerely,

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

EDWARD T. TEIXEIRA
Vice Director of Civil Defense

c: Oahu Civil Defense Agency (OCDA)
Deputy Adjutant General (DOD)

BENJAMIN J. CAYETANO
GOVERNOR OF HAWAII



GILBERT S. COLOMA-AGARAN, CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES

DEPUTIES
JANET E. KAWALO
LINNIE NISHIOKA

STATE OF HAWAII

DEPARTMENT OF LAND AND NATURAL RESOURCES

HISTORIC PRESERVATION DIVISION
Kakuhihewa Building, Room 665
601 Kamokila Boulevard
Kapolei, Hawaii 96707

AQUATIC RESOURCES
BOATING AND OCEAN RECREATION
COMMISSION ON WATER RESOURCE
MANAGEMENT
CONSERVATION AND RESOURCES
ENFORCEMENT
CONVEYANCES
FORESTRY AND WILDLIFE
HISTORIC PRESERVATION
LAND
STATE PARKS

March 5, 2001

Mr. Eric N. S. Hee, P. E.
Engineers Surveyors Hawaii, Inc.
900 Halekauwila Street
Honolulu, Hawaii 96814

LOG NO: 27037 ✓
DOC NO: 0101EJ19

Dear Mr. Hee:

**SUBJECT: Chapter 6E-8 Historic Preservation Review – City & County of
Honolulu Nanakuli Beach Park Site Improvements
Nanakuli, Wai`anae, O`ahu
TMK: 8-9-001:002**

Thank you for the opportunity to provide comment on the proposed Nanakuli Beach Park site improvements. According to the site plan provided, the City and County has proposed rehabilitation of existing dirt roads and parking with new pavement as well as the installation of chain barrier poles at access points. Ground disturbance for the project is limited to 1.5 to 2 feet in depth for the roadway/parking lot paving and 2.5 feet deep for the installation of the chain barrier poles.

Although no archaeological survey has been conducted for this parcel the previous grading of dirt roads and parking areas makes it unlikely that surface historic sites remain. The one exception is a portion of the OR&L railway (site 50-80-12-9714) that runs between Farrington Highway and the beach park. The City and County has proposed improvements which require ground disturbance of 1.5 to 2 feet deep for the roadway and parking improvements and up to 2.5 feet deep for the installation of the chain barriers.

Although surface historic sites are not expected to be found (except for the OR&L site) during the proposed improvements, we are unsure of the existence of subsurface deposits. Normally we would request that an archaeological inventory survey be conducted of the parcel. However, since the beach park has been extensively altered, and the proposed improvements are limited to chain barriers and the rehabilitation of the existing roads and parking areas, we believe that archaeological monitoring would be the most efficient method of mitigating any "adverse effect" this project may have on significant subsurface historic site. Consequently, we believe that if an acceptable archaeological monitoring program is instituted, in accordance with an approved plan,

Mr. Eric N. S. Hee, P. E.
Page Two

the proposed beach park improvements will have "no adverse effect" on significant historic sites.

Normally an acceptable monitoring plan would be prepared and submitted to this office for review and acceptance prior to beginning any ground disturbance. An archaeological monitoring plan must contain the following eight specifications: 1) the kinds of resources that are anticipated and where in the construction area the resources are likely to be found; 2) how the expected types of resources will be documented; 3) how the expected types of resources will be treated; 4) the archaeologist conducting the monitoring has the authority to halt construction in the immediate area of a find in order to carry out the plan; 5) a coordination meeting between the archaeologist and construction crew is scheduled, so that the construction team is aware of the plan; 6) what laboratory work will be done on resources that are collected; 7) a schedule for report preparation; and 8) details concerning the archiving of any collections that are made.

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

Aloha,



Don Hibbard, Administrator
State Historic Preservation Division

EJ:jk

BENJAMIN J. CAYETANO
GOVERNOR OF HAWAII



GILBERT S. COLDMA-AGARAN, CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT

DEPUTIES
JANET E. KAWELO
LINNEL NISHIOKA

STATE OF HAWAII

DEPARTMENT OF LAND AND NATURAL RESOURCES

HISTORIC PRESERVATION DIVISION
Kakuhikewa Building, Room 555
601 Kamokila Boulevard
Kapolei, Hawaii 96707

AQUATIC RESOURCES
BOATING AND OCEAN RECREATION
COMMISSION ON WATER RESOURCE
MANAGEMENT
CONSERVATION AND RESOURCES
ENFORCEMENT
CONVEYANCES
FORESTRY AND WILDLIFE
HISTORIC PRESERVATION
LAND
STATE PARKS

October 25, 2001

Mr. Taeyong M. Kim, Principal Planner
Environmental Communications, Inc.
P.O. Box 536
Honolulu, Hawaii 96809

LOG NO: 28387 ✓
DOC NO: 0110SC20

Dear Mr. Kim:

**SUBJECT: Chapter 6E-8 Historic Preservation Review of Proposed Improvements to Nanakuli Beach Park
Nanakuli, Wai`anae, O`ahu
TMK: 8-9-001:002**

Thank you for the opportunity to comment on the proposed improvements to Nanakuli Beach Park in Wai`anae, O`ahu by the City and County of Honolulu. Your client plans to make general improvements that include reconstruction, repair, and expansion of existing roadways and parking areas, and repair to existing walls and fences. Our review is based on historic maps, aerial photographs, records, and reports maintained at the State Historic Preservation Division; no field inspection was made of the subject parcel.

Judging from soils maps prepared in the early 1970s, the project area is largely underlain by Beach Sand deposits, which are known to contain significant historic sites such as cultural layers and human burials. Consequently, we believe that portions of the vision team project, as described, that include ground disturbance, such as grading or grubbing, have the potential to adversely affect significant historic sites.

Therefore, we recommend that, prior to beginning any ground disturbance consultation should occur with knowledgeable Native Hawaiians and Native Hawaiian organizations to determine if any culturally sensitive sites are in the area. Also, an acceptable archaeological monitoring plan shall be submitted to our office for review and approval. An archaeological monitoring plan must contain the following eight specifications: (1) The kinds of remains that are anticipated and where in the construction area the remains are likely to be found; (2) How the remains and deposits will be documented; (3) How the expected types of remains will be treated; (4) The archaeologist conducting the monitoring has the authority to halt construction in the immediate area of a find in order to carry out the plan; (5) A coordination meeting between the archaeologist and construction crew is scheduled, so that the

Mr. Taeyong M. Kim, Principal Planner
Page Two

construction team is aware of the plan; (6) What laboratory work will be done on remains that are collected; (7) A schedule for report preparation; and (8) Details concerning the archiving of any collections that are made.

Thus, we believe that if monitoring of ground disturbance is conducted by a qualified archaeologist, in accordance with an approved plan, the proposed Nanakuli Beach Park improvements will have "no adverse effect" on significant historic sites.

Should you have any questions about archaeology, please feel free to contact Sara Collins at 692-8026. Should you have any questions about burial matters, please feel free to contact Kai Markell at 587-0008.

Aloha,



DON HIBBARD, Administrator
State Historic Preservation Division

SC:jk

c: Mr. A. Van Horn Diamond, Chair, O`ahu Island Burial Council
Mr. Kai Markell, Burial Sites Program

VI. Comments Received Regarding the Draft Environmental Assessment

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) 586-4185
Facsimile (808) 586-4185
Email: oeqc@health.state.hi.us

December 23, 2002

Mr. Harold Mau
Department of Design and Construction, City and County of Honolulu
650 South King Street
Honolulu, Hawai'i 96813

Mr. Taeyong Kim
Environmental Communications, Inc.
1188 Bishop Street, Suite 2210
Honolulu, Hawai'i 96813

Dear Messrs. Mau and Kim:

The Office of Environmental Quality Control has reviewed the October 2002, draft environmental assessment for Nanakuli Beach Park Improvements, Tax Map Key No. 8-9-001, parcel 2 in the judicial district of Wai'anae and offers the following comments for your consideration and response.

1. NANAKULI STREAM ESTUARY. Please describe the environmental setting for the mouth of the Nanakuli Stream.
2. EAST MAKAHA STREAM. Page 15 makes reference to an "East Makaha Stream." Please show the location of this stream on the topographic map on page 8.
3. SUSTAINABLE BUILDING GUIDELINES, USE OF NATIVE PLANTS, AND GLASSPHALT. We respectfully refer you to our website at <http://www.state.hi.us/health/oeqc/index.html> for guidance documents on sustainable building and the use of native plants in landscaping. Also, please plan to use glassphalt aggregate for proposed paving at the project site.

Thank you for the opportunity to comment. If there are any questions, please call Leslie Segundo of my staff at (808) 586-4185.

Sincerely,

A handwritten signature in cursive script, appearing to read "Genevieve Salmonson".

GENEVIEVE SALMONSON
Director

ENVIRONMENTAL COMMUNICATIONS, INC.

February 24, 2003

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

Dear Ms. Salmonson:

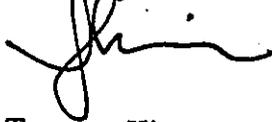
Subject: Nanakuli Beach Park Improvements
TMK: 8-9-001: Parcel 2
Draft Environmental Assessment

Thank you for your comments regarding the subject project. We have reviewed your comments and offer the following:

1. A description of the Nanakuli Stream Estuary has been added to the environmental setting section of the Final Environmental Assessment.
2. The reference to the East Makaha Stream was inadvertent. This resource is located several miles from the project site and does not affect the project site. This reference will be deleted from the Final Environmental Assessment.
3. Thank your for your reference to the sustainable building guidelines regarding the use of native plants in landscaping and the use of glassphalt. No landscaping with plant material is included in the project scope however in the event that plantings are added to the project, the use of native plant material will be considered. The use of glassphalt is not being considered for the project due to safety concerns. Roads and parking will be paved with conventional asphalt as a wearing material.

We appreciate your review of this project and will include your letter in the Final Environmental Assessment.

Sincerely,



Taeyong Kim
Environmental Communications, Inc.

Appendix A
Archaeological Monitoring Plan

ASC026-3

ARCHAEOLOGICAL MONITORING PLAN
FOR THE PROPOSED SITE IMPROVEMENTS
NANAKULI BEACH PARK
NANAKULI, WAI'ANAE, O'AHU
(TMK 8-9-01:2)

for:

The City and County of Honolulu
c/o Engineers Surveyors Hawaii, Inc.
900 Halekauwila Street
Honolulu, Hawaii 96814

by:

Aki Sinoto
And
Jeffrey Pantaleo, M.A.

June 2002

Aki Sinoto Consulting
2333 Kapiolani Blvd., No. 2704
Honolulu, Hawai'i 96826

INTRODUCTION

At the request of Engineers Surveyors Hawaii, Inc. of Honolulu, Aki Sinoto Consulting of Honolulu proposes to undertake archaeological monitoring procedures in conjunction with the various improvements being proposed by the City and County of Honolulu at Nanakuli Beach Park. The project area (TMK8-9-01:2), *makai* of Farrington Highway and immediately southeast of the existing Nanaikapono Elementary School, occupies a portion of the shoreline of Nanakuli *ahupua`a*, Wai`anae District, O`ahu Island (Fig. 1). The traffic signal for Nanakuli Avenue is located adjacent to the park entrance.

Besides the reconstruction of all paved areas including roadways and parking areas, the proposed improvements include; removal of existing chain fence and installation of new chain fence in selected areas, repair existing damaged rock wall at the pedestrian walkway, add speed bumps along entire roadway, repair existing rock walls in parking areas and install wheel stops in parking spaces, extend the southeast end of the camp site roadway, pave dirt parking lot along the northwest segment of the camp site roadway, install chain gate at northwest end of camp site roadway, and reconstruct the existing horseshoe pits (Fig. 2). The archaeological procedures shall meet the State Historic Preservation Division (SHPD) guidelines for archaeological monitoring under Section 6E of the Hawaii Revised Statutes. Concurrence and approval of this monitoring plan by the SHPD shall be required prior to commencement of any construction activities.

PREVIOUS ARCHAEOLOGY

Only two archaeological studies have previously been conducted in the vicinity of the current project area and no investigations are known to have taken place within the boundaries of Nanakuli Beach Park.

In 1994, the area across Farrington Highway, formerly known as Camp Andrews, a Naval Reservation used during WWII, was included in an archaeological assessment of five alternative sites for the proposed Nanakuli Public Library (Sinoto and Pantaleo 1994) and a related historical study (Nakamura and Pantaleo 1994). No surface remains were located.

In 2001, an archaeological inventory survey was conducted in conjunction with the proposed new Nanakuli IV Elementary School in the former Camp Andrews area (Shidler 2001). This survey resulted in the discovery of historic remains attributed to Camp Andrews (Site 50-50-7-5946) and traditional Hawaiian cultural deposits and a human burial within two limestone sinkholes (Site 50-50-7-5947). Avifaunal skeletal remains were also recovered from the sinkholes. Site 5947 is slated to be capped and preserved *in-situ*.

EXPECTABILITY OF SUBSURFACE REMAINS

Although no archaeological remains have been recorded within the current project area, the occurrence of human burials and other buried deposits have been reported from the neighboring areas. In view of the fact, that structural or other occupational surface features are not likely to be found in the current project area due to evidence of extensive previous disturbances, the remains most likely to be encountered during monitoring, would be subsurface cultural deposition, primary or secondary in context.

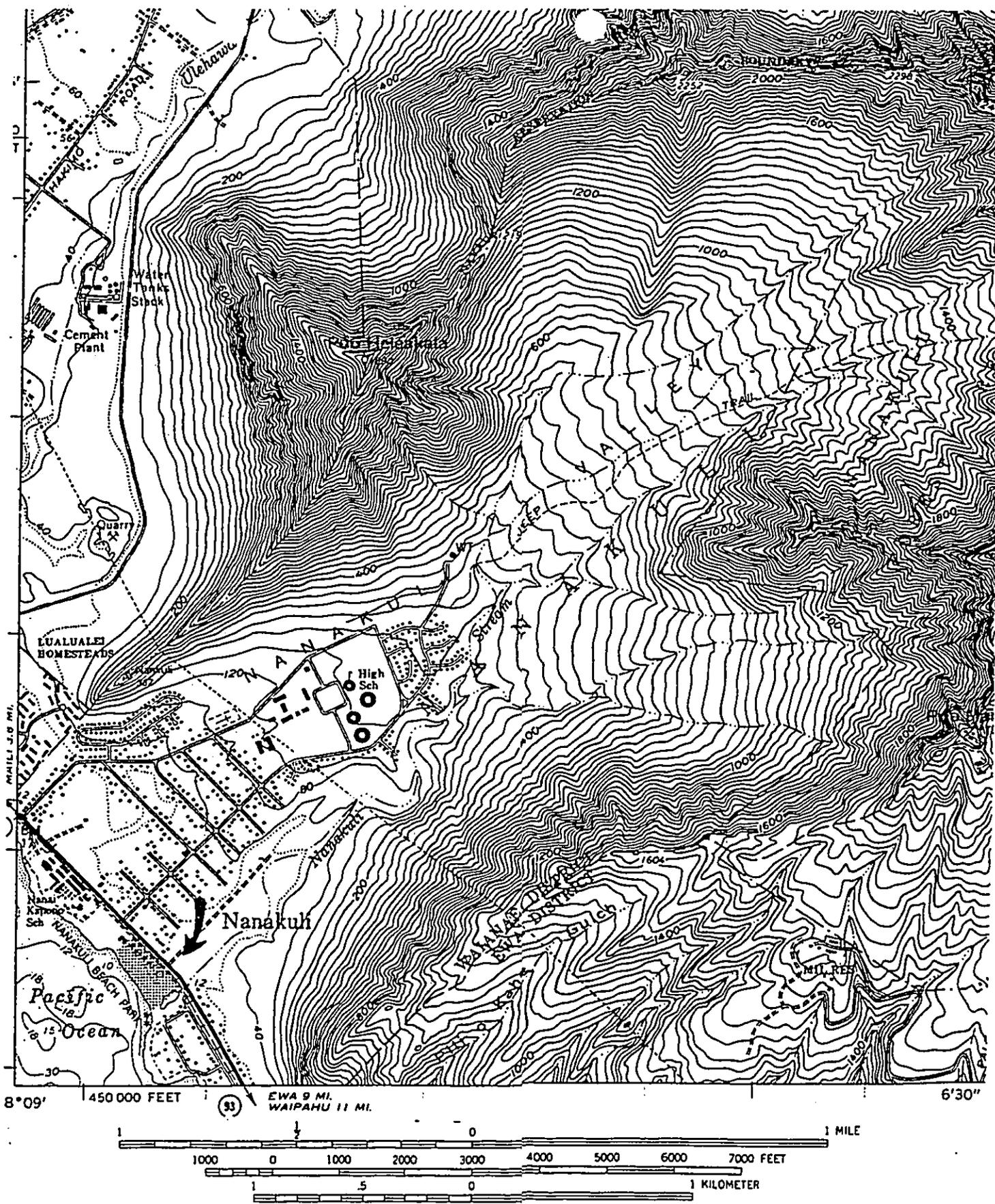
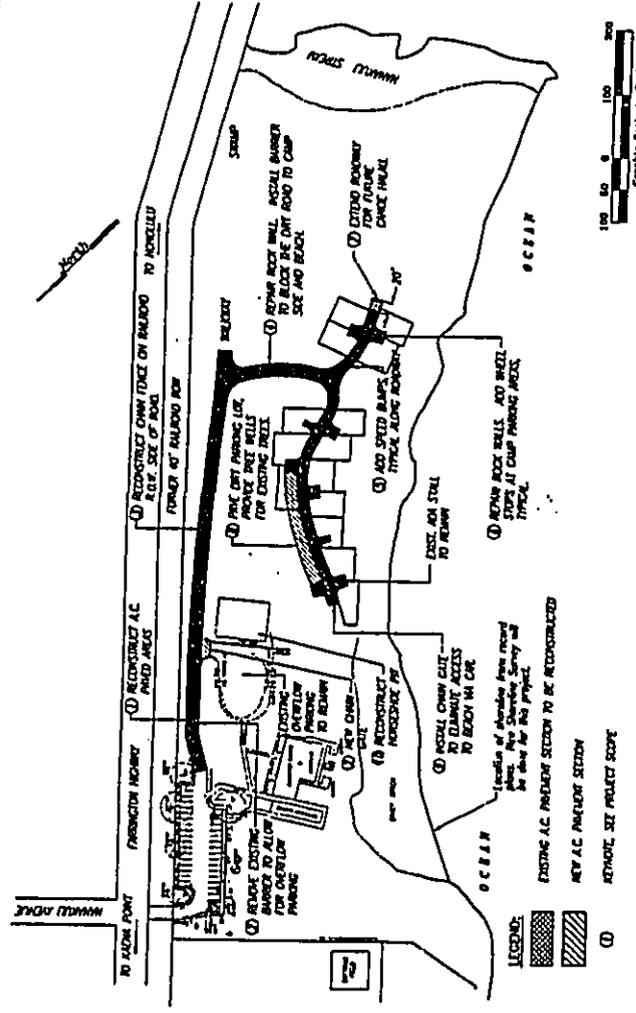
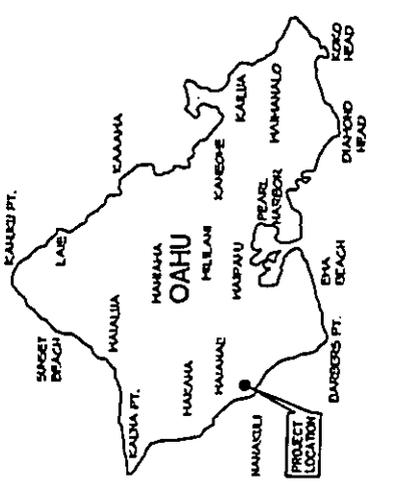
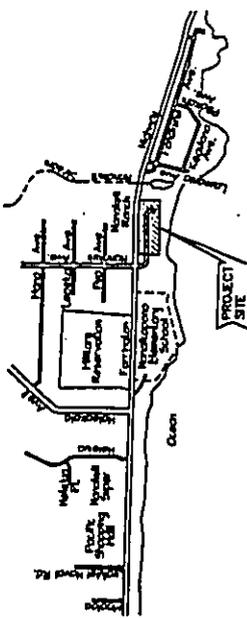


Figure 1. Project Area on USGS Schofield Barracks Quadrangle

DEPARTMENT OF DESIGN AND CONSTRUCTION CITY & COUNTY OF HONOLULU		PROJECT NO. _____	FILE NO. _____
CONSTRUCTION OF SITE IMPROVEMENTS AT NAWAKULI BEACH PARK		DATE: _____	SCALE: _____
SCHEMATIC PLAN		ENGINEER'S SURVEYING H. HALL, INC.	DATE: _____
		THE SEAL AND SIGNATURE OF THE ENGINEER SHALL BE VALID ONLY IF THE PROJECT IS SUBMITTED TO THE BOARD OF SUPERVISORS.	

- PROJECT SCOPE - IMPROVED BEACH PARK**
- The project consists of the edge of the existing and parking lot (in part of the existing and parking lot) and the improvements of the existing and parking lot.
1. Reconstruction of all paved areas, including roadways and parking areas.
 2. Installing utility lines and manholes in line of existing roadways and parking areas. Add utility lines and manholes in line of existing roadways and parking areas. Add utility lines and manholes in line of existing roadways and parking areas.
 3. Reconstruct the curb, gutter and sidewalk along the edge of the road.
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 9. Reconstruct the curb, gutter and sidewalk along the edge of the road.
 10. Reconstruct the curb, gutter and sidewalk along the edge of the road.



SCHEMATIC PLAN
(MAP: 8-9-0100)
SCALE: 1"=100'

Figure 2. Plan of Proposed Improvements (Map by ESH, Inc.)
Note Numbered Scope Items

MONITORING PLAN

The construction plans call for minimal ground disturbance for removal of existing pavements and limited excavations for wall foundations and fence posts. Roughly a maximum of two feet is estimated for the deepest excavations, thus, most likely not exceeding the depths of the previous disturbances and fill materials. In view of the potential presence of secondarily deposited remains in fill, all construction-related excavations will be monitored in accordance to State Historic Preservation Regulations contained in Chapter 6E of the Hawaii Revised Statutes.

Prior to commencement of construction and monitoring activities, a coordination meeting shall be held with representatives of all pertinent parties. The procedures to be followed for monitoring, authority of the monitor to halt work in the immediate vicinity of a discovery, and the kinds of expected remains will be discussed.

All construction-related excavation work shall initially be monitored by one full-time monitor, until the nature and extent of subsurface cultural sensitivity and the contingent appropriate scoping can be determined. Following this initial period, the appropriate scope of monitoring; whether full-time, part-time, spot check, or on-call; shall be determined and implemented in consultation with SHPD.

If grubbed material is planned to be taken off-site, to the extent feasible, all inspections shall be completed within the project area prior to transporting.

If any significant remains are encountered during the course of monitoring, all construction activities in the immediate area shall be temporarily halted until the monitor can record and mitigate the remains or determine if additional procedures are needed. All archaeological methods, standards, and techniques for recording and collection of data will be followed.

Representative stratigraphic profiles shall be regularly recorded and any depositional anomalies shall also be documented. Photographic record of monitoring activities will be retained. No additional data recovery procedures shall be implemented without prior approval by the SHPD and consent of the Owner.

All inadvertent finds of human remains shall be treated in accordance with the provisions of Chapter 6E-43.6, HRS and HAR 13-300. Should any human remains be inadvertently discovered during the course of this undertaking, all construction activities shall be halted in the immediate vicinity. The Owner shall be consulted to assess the possibility of avoiding the findings. Whenever possible, avoidance shall be implemented. If possible, without further disturbance to the remains, the determination of the temporal and ethnic origins of the burial shall be attempted. If following these procedures, the remains are determined to be or suspected to be Native Hawaiian, measures shall be taken to ensure temporary *in situ* protection of the remains. The SHPD of the Department of Land and Natural Resources shall be contacted and a decision shall be made in coordination with the O'ahu Island Burial Council (OIBC) regarding *in situ* preservation or removal and re-interment. A burial treatment plan shall be prepared for approval by SHPD and the OIBC.

Following the field phase of this project, all necessary laboratory procedures shall be undertaken. This may include; processing, cataloging, and analysis of artifacts; analyses of any collected samples as warranted; and outside consultant analysis of radiocarbon samples. The collected data shall be synthesized and compiled into a final report to be submitted no later than 90 calendar days following completion of fieldwork.

All records, notes, photographs, and maps shall be archived at the facilities of Aki Sinoto Consulting in Honolulu. All recovered human skeletal materials shall be turned over to the SHPD Burials Program for temporary curation until final disposition can be determined in consultation with the OIBC. The final disposition of artifactual and sample materials shall be determined in coordination with the landowner and SHPD.

REFERENCES CITED

- Nakamura, Barry and Jeffrey Pantaleo
1994 *Aspects of the History of Lualualei and Nanakuli, Wai`anae District O`ahu.*
Prepared for DHM, Inc. Aki Sinoto Consulting. Honolulu.
- Sinoto, Aki and Jeffrey Pantaleo
1994 *An Archaeological Assessment of Five Alternative Site Areas for the Proposed Nanakuli Public Library.* Prepared for DHM, Inc. Aki Sinoto Consulting.
Honolulu.
- Shidler, David
2001 *An Archaeological Inventory Survey of the Proposed New Nanakuli IV Elementary School, Nanakuli, Wai`anae, O`ahu.* Prepared for DAGS. Cultural Surveys Hawaii. Honolulu.