

Kekaha to Waimea
Booster Pump Station

DEPARTMENT OF WATER

County of Kauai

"Water has no Substitute -- Conserve It!"

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May 22, 1998

'98 MAY 26 P2:45

Mr. Gerry Gill, Director
Office of Environmental Quality Control
State of Hawaii
235 South Beretania Street, Suite 702
Honolulu, HI 96813

OFFICE OF ENVIRONMENTAL
QUALITY CONTROL

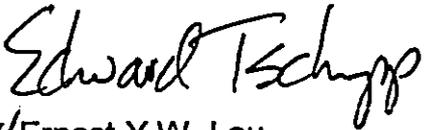
Dear Mr. Gill:

RE: Job No. 95-3, Kekaha - Waimea Booster Pump Station, Kekaha - Waimea
Water System, Kauai, Hawaii

Enclosed is an OEQC Publication Form, four (4) sets of the Final Environmental Assessment for the subject project, a Project Description and one DOS disk. Please publish the notice of availability for this project in the June 8, 1998 issue of the "Environmental Notice." The enclosed Final EA includes a Finding of No Significant Impact. ✓

Please direct any comments or questions to Mr. William Eddy of my staff at (808) 245-5412.

Sincerely,


for Ernest Y.W. Lau
Manager and Chief Engineer

enclosures

WE

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1998-06-08- KA- FEA- Kekaha to
Waiimea Booster Pump Station

JUN 8 1998

FILE COPY

DEPARTMENT OF WATER
COUNTY OF KAUAI
STATE OF HAWAII

**FINAL
ENVIRONMENTAL ASSESSMENT**

for

**JOB NO. 95-3
KEKAHA - WAIMEA BOOSTER PUMP
STATION**

MAY, 1998

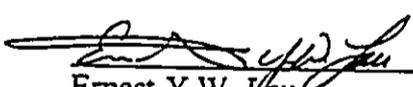
FINAL
ENVIRONMENTAL ASSESSMENT

JOB NO. 95-3
KEKAHA - WAIMEA BOOSTER PUMP STATION

MAY 1998

Approving Agency: Department of Water, County of Kauai

Proposing Agency: Department of Water, County of Kauai


Ernest Y.W. Lau
Department of Water, County of Kauai
Manager and Chief Engineer

5/21/98
Date

Prepared by
Department of Water
County of Kauai

TABLE OF CONTENTS

	Page
1.0 INTRODUCTION	1
1.1 Project Information Summary	1
1.2 Overview of the Proposed Project	2
1.3 Agencies Consulted	2
1.4 Required Permits	2
2.0 PROJECT DESCRIPTION	2
2.1 Description of Affected Area	2
2.2 Purpose and Need for the Proposed Project	3
2.3 Proposed Work	3
3.0 RELATIONSHIP OF THE PROPOSED PROJECT TO LAND USE PLANS AND CONTROLS	4
4.0 DESCRIPTION OF THE ENVIRONMENTAL SETTING, POTENTIAL IMPACTS, AND MITIGATIVE MEASURES	5
4.1 Climate	5
4.2 Topography	5
4.3 Soils and Grading	5
4.4 Surface Water and Drainage	6
4.5 Flora and Fauna	6
4.6 Archaeological-Cultural Resources	7
4.7 Land Use-Development Patterns	7
4.8 Roadways, Access, and Traffic Conditions	7
4.9 Noise	8
4.10 Air Quality	9
4.11 Socio-Economic Characteristics	9
4.12 Visual Resources	10
4.13 Utilities	10
5.0 ALTERNATIVES TO THE PROPOSED ACTION	11
5.1 No Project	11
5.2 Water Conservation	11
5.3 Develop New Water Source (Well or Surface Water)	11
5.4 Alternative Site Selection	12

6.0 DETERMINATION 12

7.0 FINDINGS AND REASONS SUPPORTING
DETERMINATION 12

APPENDIX

Figure 1 A-1

Figure 2 A-2

Figure 3 A-3

Figure 4 A-4

Figure 5 A-5

Figure 6 A-6

Draft E.A. Comments and Responses A-7

1.0 INTRODUCTION

This Environmental Assessment (EA) discloses information on the potential impacts of the proposed project on the natural and human environment. This document has been prepared in accordance with the requirements of Chapter 343, HRS and Hawaii Administrative Rules, Title 11, Department of Health, as the proposed action involves the use of County of Kauai, Department of Water funds.

The proposing agency is the Department of Water, County of Kauai. The accepting authority is the Department of Water, County of Kauai.

1.1 Project Information Summary

<u>Applicant:</u>	County of Kauai, Department of Water P.O. Box 1706 Lihue, HI 96766 Contact: Ernest Y.W. Lau, Manager and Chief Engineer (808) 245-5408
<u>Accepting Authority:</u>	County of Kauai, Department of Water
<u>Project Location:</u>	Waimea, Kauai, Hawaii
<u>Tax Map Key:</u>	(4) 1-2-06:41
<u>Landowner:</u>	Kikiaola Land Company, Ltd.
<u>Land Area:</u>	81.169 acre
<u>Request:</u>	The applicant proposes to construct, operate and maintain a potable water booster pump station on a 50 ft. by 50 ft. portion of the described property.
<u>Existing Use:</u>	Agriculture
<u>State Land Use District:</u>	Agriculture
<u>County of Kauai Zoning:</u>	Agriculture
<u>County of Kauai General Plan:</u>	Urban

1.2 Overview of the Proposed Project

The proposed project is identified by the Department of Water as, "Job No. 95-3, Kekaha to Waimea Booster Pump Station." The Department proposes to construct, operate and maintain a potable water booster pump station on a 50 ft. by 50 ft. portion of the property described as TMK: 1-2-06:41. The purpose of the proposed project is to provide the capacity to pump potable water between the Kekaha and Waimea portions of the interconnected Waimea and Kekaha Water Systems.

The proposed pump station site is located on the makai side of Kaumualii Highway between the towns of Kekaha and Waimea. The site is near the place locally referred to as the "Old Waimea Dairy." The proposed pump station consists of above and below ground piping, two pumping units, an above ground electrical enclosure, valves, fittings and other appurtenant equipment. The pump station area will be fenced to provide security and landscaped to minimize the visual impact of the project. Access to the project will be from Kaumualii Highway by way of an existing driveway.

1.3 Agencies and Organizations Consulted

State of Hawaii, Department of Transportation, Highways Division
County of Kauai, Planning Department
County of Kauai, Department of Public Works
Kauai Electric Company
Kikiaola Land Company, Ltd.

1.4 Required Permits

County of Kauai, Planning Department: Special Management Area Use Permit, Use Permit, Class IV Zoning Permit (all approved on 2/26/98)

County of Kauai, Department Public Works, Building Division: Building Permit
(plans have not yet been submitted for permit)

No state or federal permits are required

2.0 PROJECT DESCRIPTION

2.1 Description of the Affected Area

The proposed pump station site is located within an 81.169 acre lot on the makai side of Kaumualii Highway between the towns of Kekaha and Waimea. The site is near the place locally referred to as the "Old Waimea Dairy." The proposed project location is shown in Figures 1 and 2 which may be found in the Appendix.

The property is owned by the Kikiaola Land Company, Ltd. The Kikiaola Land Co. owns over 600 acres in the Waimea area and has prepared a draft master plan for the redevelopment of their lands. The master plan's proposed uses for the remainder of the 81.169 acre lot include residential and resort uses.

The Department of Water has obtained a Right-of-Entry agreement from the Kikiaola Land Co. to construct, operate, and maintain a booster pump station at the subject site. A Grant of Easement for the subject project will be made after the project is complete. The work within Kaumualii Highway right-of-way will not require an easement.

2.2 Purpose and Need for Proposed Project

The purpose of the proposed project is to provide the capacity to pump potable water between the Kekaha and Waimea portions of the interconnected Waimea and Kekaha Water Systems. Presently, the Waimea Water System is in need of an additional source of water in part because a former source, the Waimea Shaft No. 9, has been taken out of service. The Department of Health has defined Waimea Shaft No. 9 as a water source which is groundwater under the influence of surface water and requires that the water be treated prior to use as potable water.

The proposed booster pump station will facilitate use of excess source capacity presently available in the Kekaha Water System to address the short-term needs of the Waimea side of the system, and will provide long-term reliability to the entire Waimea-Kekaha Water Systems. The Kekaha and Waimea Water Systems are interconnected by a single 8-inch pipeline. Water can flow between the two water systems; however, the quantity of flow is restricted by the pipe diameter and by system hydraulics. Currently, water has been pumped between Kekaha and Waimea, when needed, using a portable gasoline-powered pump.

The water delivered from the proposed pumping station to Waimea is needed most critically during the dry summer months. The project is planned to be constructed in two phases in order to have an operable pump station before next summer. The first phase will consist of temporary pumps to be controlled manually. The second phase will consist of a permanent, automatically controlled, pump station.

The Department of Water has long range plans to develop new water sources in the Waimea-Kekaha area, and have tentatively selected a well site located between Waimea and Kekaha. In the long term, the proposed booster pump station may be used to pump water from either direction towards an area of need (for example, for supplemental fire flow), providing greater reliability for both water systems.

2.3 Proposed Work

The proposed pump station consists of above and below ground piping, two pumping units, an above ground electrical enclosure, valves, fittings and other appurtenant equipment. The pump station area will be fenced to provide security. Landscaping will be used to minimize the visual impact of the project. Access to the project will be from Kaumualii Highway by way of an existing driveway. Figures 3, 4, and 5 in the Appendix show sketches of the proposed booster pump station.

The portion of the project within the Kaumualii Highway right-of-way consists entirely of underground piping. An existing 8-inch diameter pipe parallels the highway between the towns of Kekaha and Waimea. Two new 8-inch diameter pipes will be installed perpendicular to the highway and will connect the new booster pump station to the pipeline which parallels the highway.

The project is planned to be constructed in two phases. Phase I will consist of some site engineering work including piping installation and temporary pump installation. Construction of Phase I is anticipated to begin by June 1998 and be completed by August 1998.

Phase II will consist of additional site engineering and construction of the permanent mechanical and electrical components. Grading, fencing, placing of concrete slab, and landscaping are included in the site work of Phase II. Installation of permanent electrical equipment, pumps, and the electrical enclosure are included in the electrical and mechanical work of Phase II. Construction of Phase II is anticipated to begin by May 1999 and be completed by June 1999.

The total cost of the project is estimated to be \$200,000. The project is funded entirely by the Department of Water. Figure 6 in the Appendix shows the Engineer's Cost Estimate.

3.0 RELATIONSHIP OF THE PROPOSED PROJECT TO LAND USE PLANS AND CONTROLS

The project site lies within an area designated by the State Land Use Commission for use as "Agriculture." The booster pump station is permissible under the rules of practice and procedure, State Land Use District Regulations, Part III Section 3-3 paragraph 7 which reads as follows:

"Public, private, and quasi-public utility lines, and roadways, transformer station, solid waste transfer station, etc., and appurtenant small buildings such as booster pump stations, but not including offices or yards for equipment, material, vehicle storage, repair or maintenance, treatment plants and major storage tanks not ancillary to agricultural practices, or corporation yards or other like structures."

The General Plan for the County of Kauai, dated March 1970 and the General Plan Update dated June 21, 1984, provide information on the surrounding communities and land use designations. Also provided are generalized statements regarding transportation, sewer and water systems, storm drainage, etc. Section 7-2.1 of the General Plan Update states as its goal:

"To promote and protect the health, safety and welfare of all residents and visitors, and to promote the improvement and expansion of the island's economy, by recognizing and carefully utilizing land and water resource."

The booster pump is consistent with the General Plan Update and will not require or cause any changes to the County General Plan. Secondary or cumulative impacts, such as influencing land development in either Waimea or Kekaha, are not anticipated. Land

development is controlled by market and economic considerations and conformance with land use and general plan polices that are not influenced by this project. Therefore, the proposed project should not directly result in increased land development in either Kekaha or Waimea.

The proposed project will have little economic or social impact on the surrounding communities. The Kekaha and Waimea Water Systems are already interconnected and the proposed booster pump station will only reinforce this existing link.

4.0 DESCRIPTION OF THE ENVIRONMENTAL SETTING, POTENTIAL IMPACTS, AND MITIGATIVE MEASURES

4.1 Climate

Existing Conditions

The average annual rainfall for Waimea over a 71 year period was 21.6 inches per year. The temperature for the area ranges from a minimum of 66.2 degrees Fahrenheit to a maximum of 84.2 degrees Fahrenheit.

Anticipated Impacts and Mitigative Measures

The proposed action will have no effect on climatic conditions, therefore no mitigative measures are required.

4.2 Topography

Existing Conditions

The proposed site is located within the Mana Plain. The project site has been cultivated in agriculture for nearly a century and is relatively flat. The ground elevation within the project area averages approximately 8 ft. mean sea level.

Anticipated Impacts and Mitigative Measures

The proposed project will not alter the topography of the project site. It is not anticipated that significant grading will be required. No substantial fill or excavation is being proposed for the project. Mitigative measures related to soils and grading are described in the next section.

4.3 Soils and Grading

Existing Conditions

The Soil Survey of Islands of Kauai, Oahu, Maui, Molokai, and Lanai, State of Hawaii (1972) as published by the United States Department of Agriculture Soil Conservation Service was researched to determine the soil in the project area. The soil in the area is classified as Jaucas-Mokuleia Association. It is described as deep, nearly level to moderately sloping, excessively drained and well-drained soils that have coarse-textured underlying material on coastal plains.

Grading of the site will be limited to leveling the existing soil in preparation for the construction of a concrete slab. No mass grading or excavation is anticipated.

Anticipated Impacts and Mitigative Measures

The impact of the proposed action on soils is limited to the potential for erosion during construction. Erosion control mitigation measures include regular watering of exposed soil areas, good housekeeping on the job site, and landscaping or paving of bare soils. Erosion control measures will be monitored by the Department of Water, Engineering Division.

4.4 Surface Water and Drainage

Existing Conditions

The existing flood zones were reviewed using the National Flood Insurance Program (NFIP), Flood Insurance Rate Maps (FIRM). The FIRM indicates that the project site is within "Zone AH (EL. 8)." This zone is described on the FIRM as "Flood depths of 1 to 3 feet (usually areas of ponding); base flood elevations determined."

According to NFIP regulations, structures built within Zone AH must have their lowest horizontal member above the flood level. Fill and embankments with Zone AH are allowed.

Anticipated Impacts and Mitigative Measures

According to the most recent topographic surveys of the area, the existing ground surface elevation at the project site is above elevation 8 ft mean sea level. All components of the proposed pump station, except for the underground piping will be above the flood elevation. The structures will be designed and constructed in accordance with NFIP regulations.

The existing surface water drainage patterns in the area of the pump station will not change significantly. Grading of the site will be limited to leveling the existing soil in preparation for the construction of a concrete slab. No mass grading or excavation is anticipated. The impacts of the project on drainage conditions are expected to be minimal and no mitigation measures are proposed.

4.5 Flora and Fauna

Existing Conditions

The project site and the area to the west have been in sugarcane cultivation dating back to the early 1900's. Currently, the vegetation at the project site is mainly seed corn which is being cultivated by a seed company. The vegetation within the State Highway Right of Way is limited to grasses and weeds.

Birds which are common to the island are presumed to frequent the site. Other animals found within the project area may include domestic pets and strays, rats, and mice. No rare, endangered, or threatened plant or animal species are presently known to exist on the project site.

Anticipated Impacts and Mitigative Measures

The project includes some landscaping which may serve as habitat for birds in the area. It is expected that during construction, birds that frequent the site will move to nearby undisturbed areas and will return when disturbances cease. No adverse impacts are anticipated, and no mitigative measures are proposed.

4.6 Archaeological - Cultural Resources

Existing Conditions

There are no known archaeological sites, cultural features, or ongoing cultural practices at the project site. The cultivation of sugarcane over many decades has likely disturbed any prior surface archaeological sites.

There are several historical structures in Waimea that are on the State and /or National Register of Historic Places, however, none of them are located within or adjacent to the project site.

Anticipated Impacts and Mitigative Measures

No impacts to archaeological, cultural, or historical resources are anticipated. In the event that any previously unidentified sites or remains are encountered during site work and construction phases, work in the immediate area will cease. An archaeologist from the State Historic Preservation Division will be notified and work in the area will be suspended until further recommendations are made for appropriate treatment.

4.7 Land Use-Development Patterns

Existing Conditions

The current land zoning by both the State and the County is Agricultural. The current use of the land is agricultural. The project is located within a designated "Special Management Area" (SMA) area according to the County of Kauai, Planning Department. An SMA permit application has been submitted.

The County of Kauai General Plan designation of the project site is Urban Residential. These lands can be developed for medium to higher density residential development and may also contain commercial and appropriate light industrial and public service facilities. The proposed project is consistent with the General Plan designation.

A master plan for the Kikiaola Lands is in preparation; however, it has not been submitted to government agencies for review. Discussions with the Kikiaola Land Company, Ltd. indicate that the proposed project is consistent with the conceptual Kikiaola Land Master Plan.

Anticipated Impacts and Mitigative Measures

There will be no change in the existing land use classification or in the amount of land designated for development. Land use patterns in the area will not change as a result of the proposed action. No mitigative measures are required.

4.8 Roadways, Access and Traffic Conditions

Existing Conditions

The project site is adjacent to Kaunualii Highway and does not have a cross street. Access to the site will be from an existing driveway which is currently being used by the seed corn farmers. No new driveway within the State Highway Right of Way will be needed for this project.

Kaumualii Highway fronting the project site is a two-lane rural highway with a posted speed limit of 35 mph. The pavement width is approximately 28 feet and the lane width is approximately 11 feet. The width of the State Highway right-of-way is 80 feet.

The State Department of Transportation's (DOT) Kauai Long-Range Land Transportation Plan does not recommend widening of Kaumualii Highway to four-lane roadway in between Waimea and Kekaha. The DOT does plan to extend the paved shoulders to a width of 8 feet. A clear zone of 30 from the edge of pavement is required on all properties adjacent to a State Highway.

Anticipated Impacts and Mitigative Measures

The booster pump station was setback from the highway edge of pavement a distance of 45 feet to allow for future expansion of the highway. No improvements to the State Highway are proposed in this project.

The existing access driveway is unpaved and no improvements are planned. Approach to the driveway from the highway may be made from either the east or west direction. The driveway will provide access to a sliding gate at the pump station perimeter.

During the construction phase, traffic levels on Kaumualii Highway will increase slightly near the project site. Heavy vehicles will transport construction equipment and material to and from the site. The traffic generated during the construction phase will occur throughout the day during normal working hours.

A construction crew will be working within the State right-of-way to install the connections to the existing water main and to install the new pipelines to the pump station. One lane may be coned and closed to traffic during the installation of the connection to the water main. Any work which requires closing of a traffic lane will be scheduled during non-peak hours of the day. Traffic control personnel will be on duty to direct traffic as efficiently as possible through the area.

Negligible increases in traffic levels are expected during the pump station's operational stage. Periodic maintenance will be made by the Department of Water personnel approximately once a week. The anticipated impacts of the project during its normal operational stage are negligible and therefore no mitigative measures are proposed.

4.9 Noise

Existing Conditions

The primary noise sources in the area of the project site are related to traffic, agricultural production, and agricultural equipment. The relatively rural character of the area does not generate extended periods of unacceptable levels of noise.

Anticipated Impacts and Mitigative Measures

Short term increases in the noise level near the project area are to be expected. The noise will be limited to those generated by the construction activities and traffic associated with the construction activities. The construction related activities will be temporary and will occur only in the daytime during regular working hours.

The noise associated with the operation of the pump station will be limited to the noise of the additional traffic generated and the noise generated by the pumping units. The other components of the pump station such as the valves, motor control center, and piping will not generate significant levels of noise. The landscape buffer will help reduce any noise emitted from the pump station.

The noise created by the operation of the motor/pump units will be kept to a minimum by using submersible pumps. The electric motors and turbine pumps will be encased in steel cylinders which are completely full of water and installed below the ground surface (see Figures 4 and 5). Submersible pumps cause the least amount of noise to be produced of any motor/pump assembly available.

Due to the undeveloped, rural nature of adjacent property and due to the mitigative measures mentioned above, no population will be subjected to unacceptable noise levels from the proposed project.

4.10 Air Quality

Existing Conditions

The project site and surrounding area are rural in nature and the air quality at the project site is expected to be very good. The air quality may be influenced by Kaunualii Highway, agricultural activity, and the Kekaha Sugar Mill.

Anticipated Impacts and Mitigative Measures

Construction activities are expected to generate short-term impacts to air quality primarily from fugitive dust emissions. The impact of construction activities on air quality will be mitigated by wetting down loose soil areas and good housekeeping on the job site.

The air pollution generated from construction equipment emissions is expected to be minimal as only minimal grading of the site is anticipated.

The anticipated impacts on the air quality of the area due to the project during its operational phase are negligible. No degradation of air quality conditions in the region is anticipated, and no mitigative measures are proposed.

4.11 Socio-Economic Characteristics

Existing Conditions

According to public records, the total population of the Waimea District has grown approximately 17 percent over the past two decades from 7,569 in 1970 to 8,888 in 1990.

Agriculture has historically been a major island-wide employer, however, the agricultural work force has declined significantly in the past two decades. The Waimea-Kekaha area benefits economically from its close proximity to the Pacific Missile Range Facility and the related defense and technology research business. Recently, development in the Waimea area has been limited by the availability of potable water, due to the removal of Waimea Shaft No. 9 from service.

Anticipated Impacts and Mitigative Measures

The principle socio-economic impact of this project will be the short-term increased availability of potable water in the Waimea area and the long-term improvement in reliability of water service for the entire Waimea-Kekaha area. There are no anticipated short-term socio-economic impacts on the Kekaha area due to this project and no mitigative measures are proposed.

4.12 Visual Resources

Existing Conditions

The project site was recently actively cultivated agricultural land and does not contain any structures. The views from the project site are of the mountain ranges and canyons rising mauka, agricultural fields, nearby residences, and Kaumualii Highway. The vast majority of the area surrounding the project site is open space.

Anticipated Impacts and Mitigative Measures

The project's scale and design will not significantly impact area views. The change in the visual condition of the surrounding area will be minimized by designing the above ground features to be as aesthetically pleasing as possible. The project site will be landscaped with plants which are compatible with the surrounding environment. The grounds will be regularly maintained by the Department of Water personnel.

The loss of open space at the site will be minimized by making the pump station as small as possible. The pump station will be setback 45 feet from Kaumualii Highway.

4.13 Utilities.

Existing Conditions

3.13.1 Water. The Kekaha and Waimea Water Systems are owned and operated by the County of Kauai, Department of Water. The sources of water in Kekaha consist of Kekaha Shaft No. 12 with a capacity of 200 gallons per minute (gpm), Waipao Valley Well (700 gpm), and Paua Valley Well (650 gpm). Storage in Kekaha is provided by two 0.5 million gallon (MG) tanks.

Waimea sources consist of Waimea Well A (180 gpm) and Waimea Well B (200 gpm). Storage in Waimea is provided by the 0.1 MG Waimea Heights Tank, the 0.25 MG steel tank, and the 0.5 MG concrete tank.

The two water systems are connected by a single 8-inch diameter asbestos-cement pipeline. The booster pump will be located in between the two systems and will draw water from Kekaha and pump it to Waimea. The proposed design capacity of the pump station is approximately 400 gpm.

4.13.2 Sewer. There are no sewage collection or disposal needs for the project. Thus, there will be no impact on the County sewer system.

4.13.3 Electricity. Electrical power will be required to operate the pump station. Power to the site will be provided by the existing overhead power lines that run along Kaumualii Highway. Electrical service will be requested from Kauai Electric Company.

4.13.4 Telephone. There are no telephone needs for the project, thus, there will be no impact on the telephone system.

Anticipated Impacts and Mitigative Measures

The project will facilitate the supplementation of water supplies to the Waimea area and will improve the reliability of the Waimea and Kekaha Water Systems. The Kekaha Water System currently has excess source water. No adverse conditions are expected to occur in the Kekaha area due to the short-term pumping water at the design rates to Waimea. The Department of Water currently has plans and funding to provide an additional water source in the Waimea-Kekaha area in the near future.

There are no anticipated adverse impacts on utilities including water, sewer, electrical, or telephone, and thus, no mitigative measures are proposed.

5.0 ALTERNATIVES TO THE PROPOSED PROJECT

5.1 No Projects

If the proposed project is not completed, there will be no alterations to the current situation and conditions. The Waimea Water System will not have the benefit of the additional water supply, and the Waimea area will continue to have a deficit of available source water. Continued operation of the portable booster pump is labor intensive and not efficient.

5.2 Water Conservation

The Department of Water encourages water conservation and a conceptual alternative to this project would be to increase promotion of conservation measures. The current deficit of source water in Waimea, however, could not be made up by conservation measures without placing an extreme burden on the Waimea community. Conservation alone, without adding new water sources, is an unacceptable alternative.

5.3 Develop a New Water Source (Well or Surface Water)

A possible alternative to constructing a booster pump station is to develop a new well or surface water source for the Waimea Water System. The time required for an alternative source is estimated to be several years longer than the time to construct the proposed booster pump station.

The long term need for new water sources in the Kekaha-Waimea Water System is apparent. The Department of Water intends to add new water sources to the system in the future, however, the short term need for the booster pump is critical. The project also has long-term benefits with respect to reliability for both Waimea and Kekaha that are not fully achieved by development of a new water source (well).

5.4 Alternative Site Selection

The proposed site was chosen because of its favorable land conditions and location in relation to the existing piping network. The booster pump station must be located near the 8-inch pipeline which runs along Kaumualii Highway in between the towns of Kekaha and Waimea. Another site could be chosen along this pipeline, however, the Department of Water and Kikiaola Land Company have found the proposed site to be the most logical place to construct and operate the pump station.

6.0 DETERMINATION

This environmental assessment shows the proposed action will have no significant adverse impact on the environment, and consequently, an Environmental Impact Statement is not warranted. Therefore, in accordance with the provisions of Chapter 343, Hawaii Revised Statutes, a Finding of No Significant Impact is in order.

7.0 FINDINGS AND REASONS SUPPORTING DETERMINATION

In considering the significance of potential environmental effects, the applicant has considered the sum of effects on the quality of the environment and evaluated the overall cumulative effects of the proposed action. The applicant has considered every phase of the proposed action, the expected consequences, both primary and secondary, and the cumulative as well as the short- and long-term effects of the proposed action. As a result of these considerations, the applicant has determined that:

7.1 The proposed project does not involve an irrevocable commitment to loss or destruction of any natural or cultural resources;

There are no significant wildlife, archaeological, or historical resources known to exist within the project area.

Scenic views of the ocean or any ridge lines in the area will not be impacted. The visual character of the area will change from the current agricultural land to a water works facility which is compatible with the surrounding land use plans and programs being developed for the region.

7.2 The proposed project does not curtail the range of beneficial uses of the environment;

Although the subject project site is suitable for agricultural uses, the land area is also suited and ideally located for a booster pump station. There is abundant land in the vicinity available for other beneficial uses, and the land area used by the project is very limited (50 ft. x 50 ft.). Furthermore, the proposed project is consistent with the County's General Plan and the Department of Water General Plan.

- 7.3 The proposed project does not conflict with the State's long-term environmental policies or goals and guidelines as expressed in Chapter 344, HRS; and any revisions thereof and amendments thereto, court decisions, or executive orders;**

The proposed project is consistent with the State Land Use Designation which is in concert with all applicable policies, goals and guidelines. No long-term environmental conflicts are foreseen.

- 7.4 The proposed project does not substantially affect the economic or social welfare of the community or state;**

The proposed project will have little economic or social impact on the surrounding communities. The Kekaha and Waimea Water Systems are already interconnected and the proposed booster pump station will only reinforce this existing link.

- 7.5 The proposed project does not substantially affect public health;**

Construction activities will be regulated to minimize noise, dust and erosion concerns. The proposed project will improve water service to both the Kekaha and Waimea communities.

- 7.6 The proposed project does not involve substantial secondary impacts, such as population changes or effects on public facilities;**

Land development is controlled by market and economic considerations and conformance with land use and general plan policies that are not influenced by this project. Therefore, the proposed project should not directly result in increased population or land development in the area. The proposed project provides needed infrastructure for the area's present and future population.

- 7.7 The proposed project does not involve a substantial degradation of environmental quality;**

The project site has been altered from its natural state and used for agricultural purposes since the early 1900's. The proposed booster pump station will not result in substantial degradation of environmental quality (air, noise, water, etc.), or produce or require any environmental degrading products such as pesticides, herbicides, or fertilizers.

- 7.8 The proposed project is individually limited and cumulatively, does not have a considerable effect upon the environment or involve a commitment for larger actions;**

The effect on the environment will be limited to the loss of agricultural land only within the project footprint, and will not affect the environment of any off-site areas. No larger actions are associated or required by the proposed project.

7.9 The proposed project does not substantially affect rare, or threatened or endangered species or habitats;

No rare, endangered, or threatened plant or animal species are known to exist at the project site. The State Department of Land and Natural Resources, Division of Forestry and Wildlife has reviewed the Draft Environmental Assessment and found it to be adequate and complete with respect to potential impacts to wildlife resources.

7.10 The proposed project does not detrimentally affect air or water quality or ambient noise levels;

Short-term impacts on air quality and noise will occur during the construction period. The impacts will be minimized by good construction practices which will be regulated by the Department of Water.

Development of the site will not significantly increase ambient noise levels, by use of electrically powered submersible pumps.

7.11 The proposed action does not affect or is likely to suffer damage by being located in an environmentally sensitive area such as a flood plain, tsunami zone, beach, erosion-prone area, geological hazardous land, estuary, freshwater, or coastal waters;

The pump station will be constructed in accordance with the requirements of the National Flood Insurance Program. Development of the property is compatible with the above criteria because environmentally sensitive areas are not associated with the project site and the physical character of the site has been previously disturbed by agricultural uses. Shoreline, valleys, or ridges will not be impacted by the development.

7.12 The proposed project does not substantially affect scenic vistas and view planes identified in county or state plans or studies;

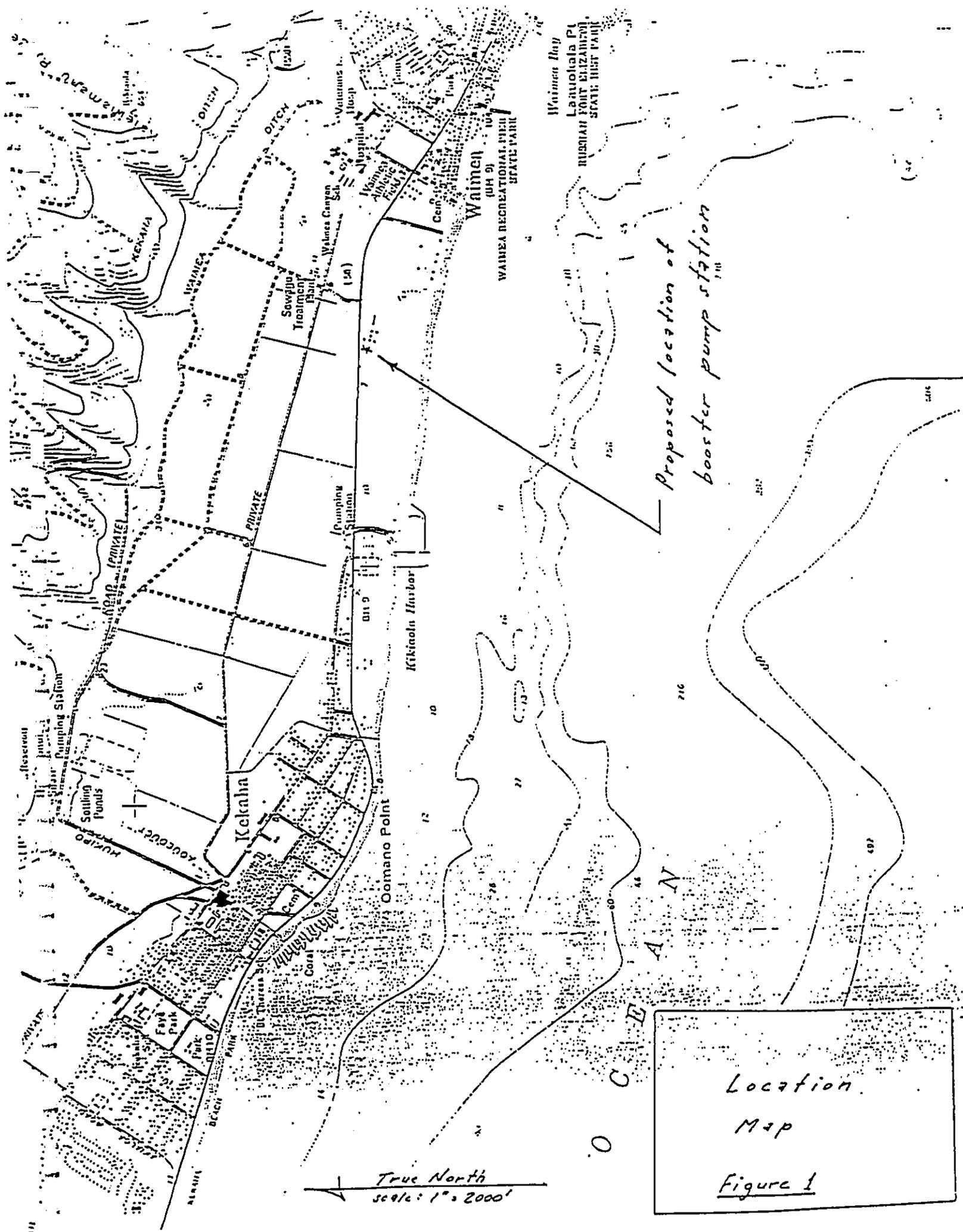
Scenic vistas and view planes identified in County or State plans or studies will not be substantially affected by the project. The change in the visual condition of the surrounding area will be minimized by landscaping of the above-ground features.

7.13 The proposed project does not require substantial energy consumption;

The proposed project will utilize electric motors rated at approximately 25 horsepower. The electric power consumption for this project will not be substantial relative to the available capacity of the Kauai Electric Company system, and will be consistent with energy consumption of other similar size pumping facilities routinely used by the Department of Water. The Kauai Electric Company does not object to the installation of such electrical motors.

APPENDIX

JOB NO. 95-3
KEKAHA TO WAIMEA BOOSTER PUMP STATION



Proposed location of
booster pump station

True North
scale: 1" = 2000'

Location
Map
Figure 1

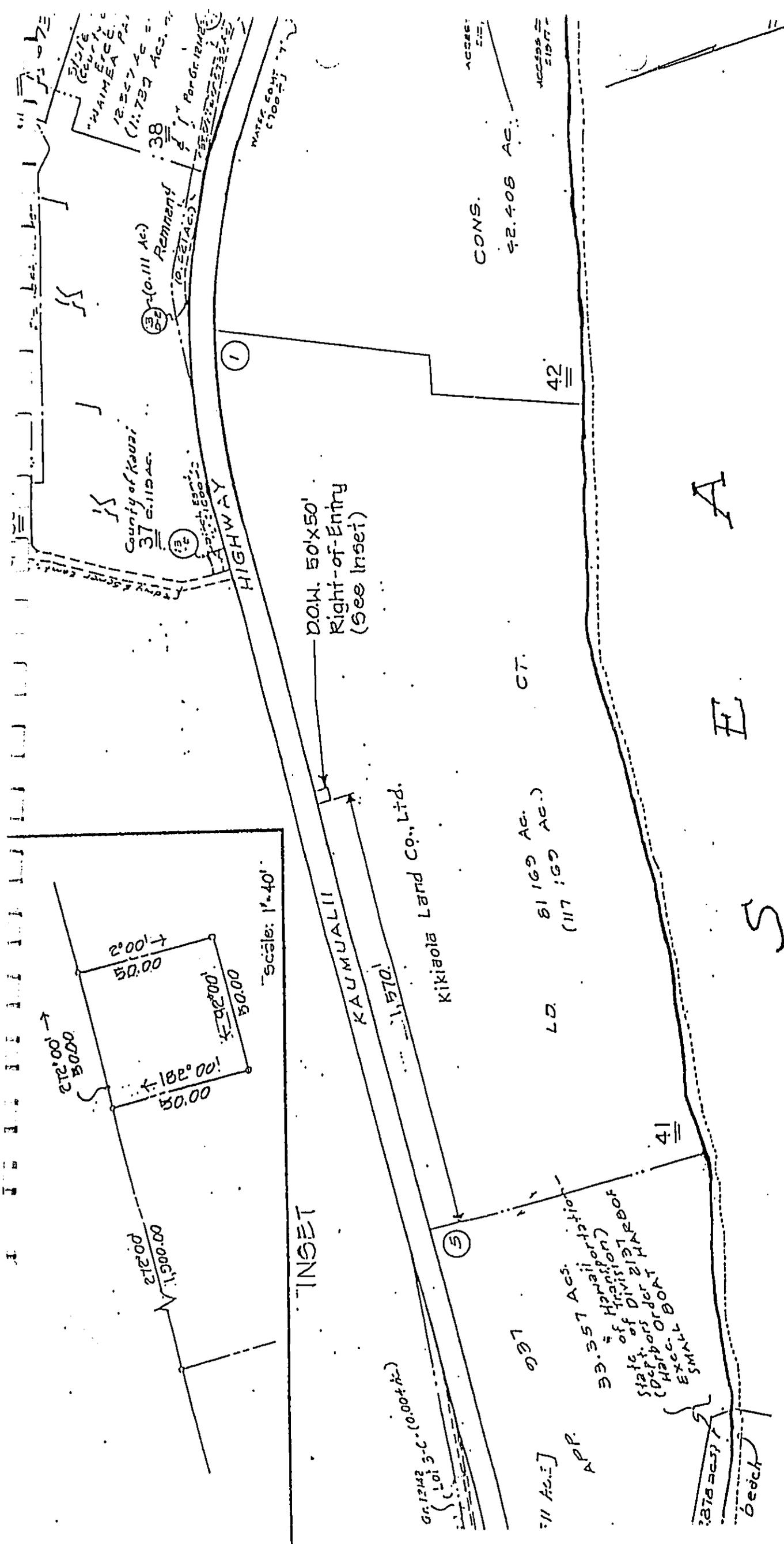
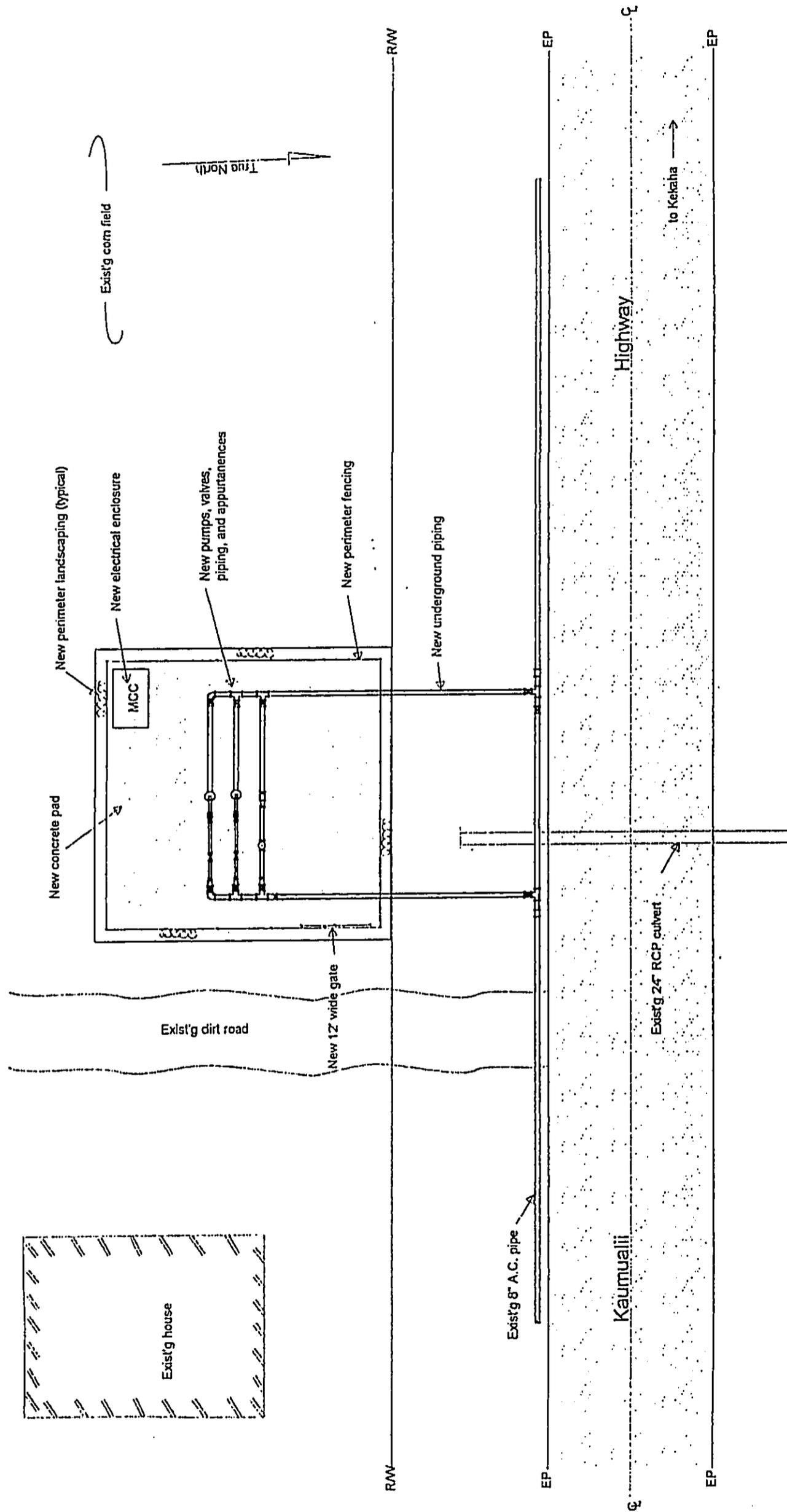
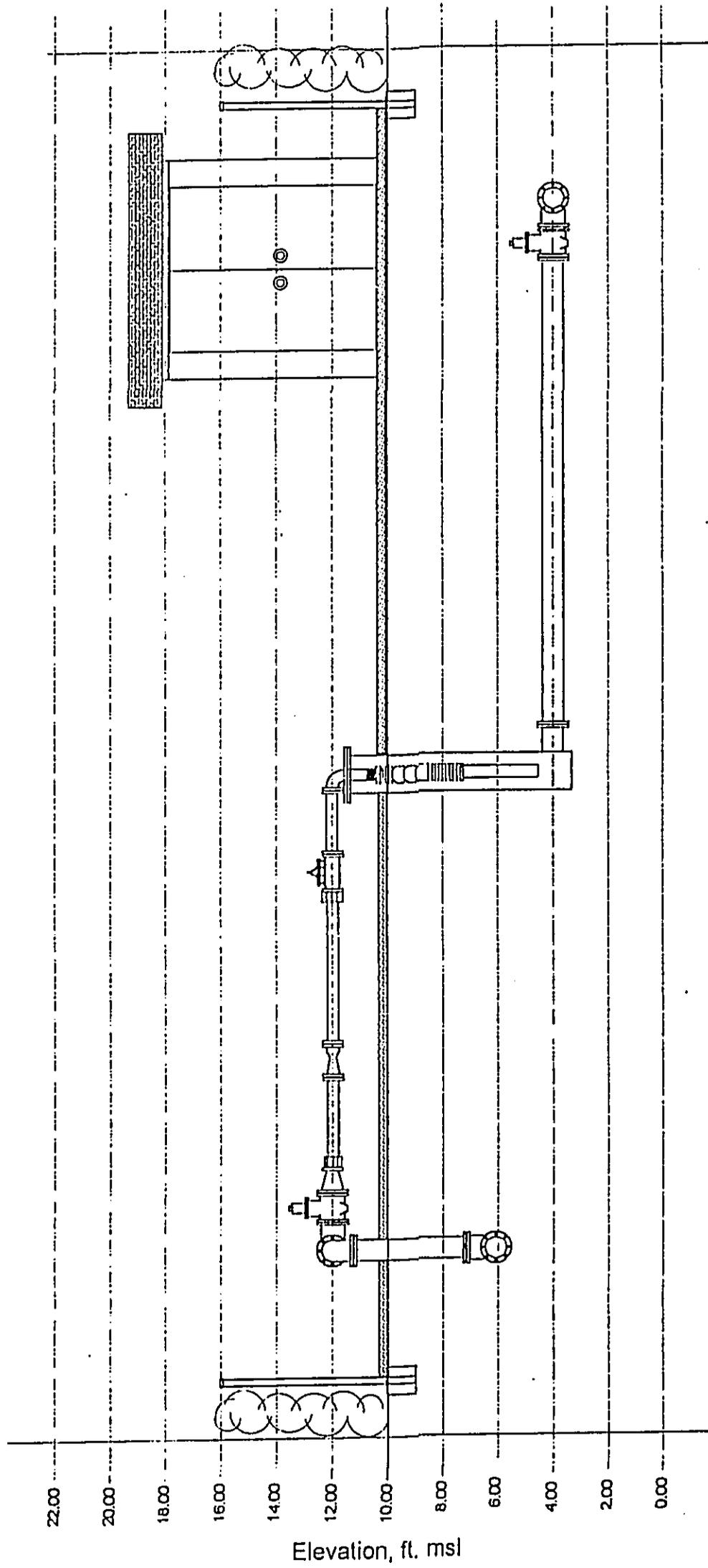


Figure 2



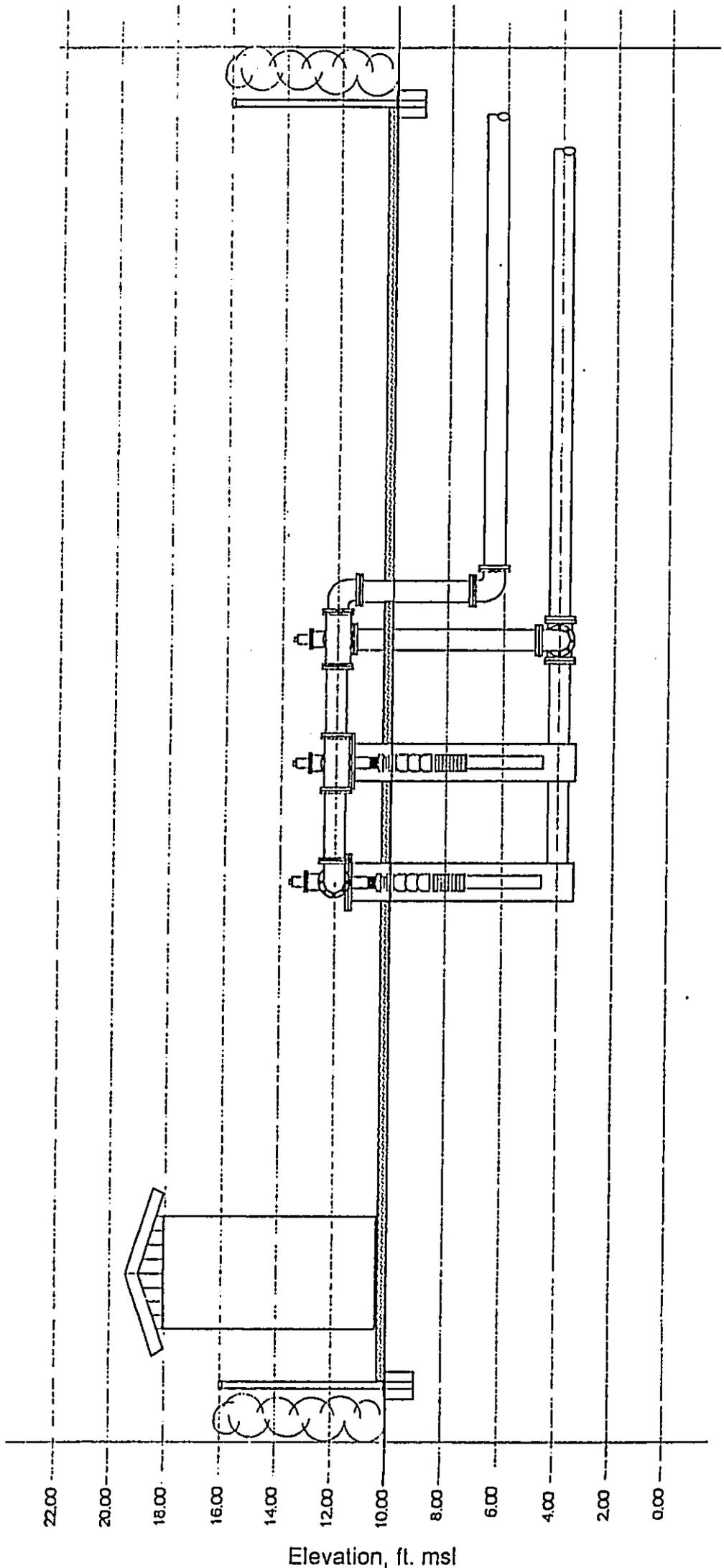
Kekaha to Waimea Booster Pump Station
 SITE PLAN
 scale: 1" = 20'

Figure 3



Kekaha to Waimea Booster Pump Station
 FRONT ELEVATION
 scale: 1" = 5'

Figure 4



Kekaha to Waimea Booster Pump Station
 SIDE ELEVATION
 scale: 1" = 5'

Figure 5

Kekaha to Waimea Booster Pump Station
ENGINEER'S COST ESTIMATE

1. Pumps, valves, piping, etc.....	\$100,000
2. Earthwork.....	\$10,000
3. Fencing.....	\$7,500
4. Landscaping.....	\$5,000
5. Concrete pad, footings, and thrust blocks.....	\$10,000
6. Electrical enclosure.....	\$20,000
7. Electrical controls and telemetry.....	\$30,000

Total = \$182,500

say \$200,000

Figure 6

DRAFT E.A. COMMENTS AND RESPONSES

The following agencies and organizations were mailed a copy of the Draft Environmental Assessment for review and comment for the proposed project. The parties that responded are indicated below and a copy of their correspondence with a response from the Department of Water is attached to this section. Comments from these agencies, organizations and individuals have been incorporated into this Final Environmental Assessment, where necessary.

<u>Agency of Organization</u>	<u>Responded to Draft EA</u>
State of Hawaii,	
Department of Transportation, Highways Division, Kauai District	yes
Office of Hawaiian Affairs	yes
Department of Land and Natural Resources,	
Chairperson (forwarded to the Land Division)	yes
State Historic Preservation Division	yes
Division of Forestry and Wildlife, Kauai District	yes
Department of Health, Office of Environmental Health	no
Office of Environmental Quality Control	yes
Waimea Public Library	no
Waimea High School	no
County of Kauai,	
Planning Department	no
Department of Public Works	yes
Fire Department	no
Police Department	no
Kauai Electric Company	no
Kikiaola Land Company	no
The Garden Isle Newspaper	no
The Honolulu Advertiser, Kauai News Bureau	no
Honolulu Star-Bulletin, Kauai News Bureau	no
KUAI Radio Station	no
West Kauai Main Street Association	no
West Kauai Business and Professional Association	no
West Kauai Community Development Corporation	no
West Kauai Rotary Club	no
Pacific Missile Range Facility	no

ADJUTANT GENERAL



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
KAAUI DISTRICT
3380 ENWA STREET, ROOM 205
LIIHUE, HAWAII 96766

KABUHANASO
DIRECTOR
DEPUTY DIRECTOR
BRUCE L. GARDNER
OLENIE C. GARDNER

3:30
IN REPLY REFER TO

HWY-KE 4.980153

HWY-KE 4.980153

Mr. Ernest Y.W. Lau
Page 2
February 23, 1998

February 23, 1998

Mr. Ernest Y.W. Lau
Manager and Chief Engineer
Department of Water
County of Kauai
4398 Pua Loke Street
Lihue, Hawaii 96766

Dear Mr. Lau:

Subject: Job No. 95-3 - Kekaha to Waimea Booster Pump
Station
Waimea, Kauai, Hawaii
TMK: (4)1-2-06:41

Sincerely,

STEVEN KONO, P.E.
District Engineer
SM-65

If you have any questions, please call Steve Monikawa at 274-3118.

Thank you for the opportunity to review and comment on the DRAFT ENVIRONMENTAL ASSESSMENT for the project.

Other than our normal roadway resurfacing, shoulder & guardrail improvements and general highway maintenance work, we have no major highway improvement projects scheduled for the area in the near future. Also, between now and the year 2020, the Kauai Long Range Land Transportation Plan does not foresee the need for any major highway improvements between Waimea and Kekaha. This situation may change if and when, Kikialoa Land Co. follows through on implementing their redevelopment plans for 81.169 acres.

The proposed booster pump station is unlikely to significantly impact traffic in the area. There is a possibility that sometime in the future, the existing drainage structure and culvert located adjacent to the pump site may be reconstructed, and/or replaced. However, the pump and waterline facilities should not be impacted by the drainage improvement project.

DEPARTMENT OF WATER
County of Kauai

MAILED
MAY 21 1998

"Water has no Substitute - Conserve It!"

May 15, 1998

Mr. Steven Kyono, District Engineer
Department of Transportation
Highways Division
3060 Ewa Street, Room 205
Lihue, HI 96766

Dear Mr. Kyono:

Subject: Draft Environmental Assessment - Job No. 95-3,
Kekaha to Waimea Booster Pump Station

Thank you for your letter of February 23, 1998 regarding the
Draft Environmental Assessment for the subject project. We
appreciate your review and comments.

Sincerely,



Ernest Y.W. Lau
Manager and Chief Engineer

ME:et

W:\MAY15\98

98-082



STATE OF HAWAII
OFFICE OF HAWAIIAN AFFAIRS
711 KAPULANUI BOULEVARD, SUITE 500
HONOLULU, HAWAII 96813-5219
PHONE (808) 584-1888
FAX (808) 584-1885
March 19, 1998

Mr. Ernest Y.W. Lau
Department of Water
County of Hawaii
P.O. Box 1706
Lihue, HI 96766

Doc. EIS 154

Subject: Draft Environmental Assessment (DEA) for Kekaha to Waimea Booster Station, Island of Kauai

Dear Mr. Lau:

Thank you for the opportunity to review the Draft Environmental Assessment (DEA) for Kekaha to Waimea Booster Station. The County of Kauai proposes to construct, operate, and maintain a water booster pump station on a location adjacent to Kaunaulii Highway between Kekaha and Waimea.

The Office of Hawaiian Affairs has no objections at this time to the proposed pump station. Based on information contained in the DEA, the pump station apparently bears no adverse impacts on the Kaunaulii highway or adjacent lands nor upon existing flora or fauna and no known archaeological remains exist. The station will be located 45 feet from the highway edge of pavement and will not apparently preclude future expansions of the highway.

But OHA is concerned with the lack of studies or surveys substantiating the absence of adverse effects on flora, fauna, and archaeological resources. OHA views this kind of baseline information essential in ascertaining potential impacts and determining mitigation measures.

Letter to Ernest Y.W. Lau
March 19, 1998
Page 2

Please contact Colin Kippen (594-1938), Officer of the Land and Natural Resources Division, or Luis A. Manrique (594-1758), should you have any questions on this matter.

Sincerely yours,

Rainald Ogata
Administrator

cc Board of Trustees
CAC, Island of Kauai

Colin Kippen
Officer, LNR

DEPARTMENT OF WATER
County of Kauai

"Water has no Substitute - Conserve It!"

May 15, 1998

Mr. Randall Ogata Administrator
Office of Hawaiian Affairs
711 Kapiolani Boulevard, Suite 500
Honolulu, HI 96813-5249

Dear Mr. Ogata:

Subject: Draft Environmental Assessment - Job No. 95-3. Kekaha to
Waimea Booster Pump Station

Thank you for your letter of March 19, 1998 regarding the Draft EA for the subject project. In the third paragraph of your letter, you expressed concern regarding the lack of studies or surveys substantiating the absence of adverse effects on flora, fauna, and archaeological resources. The Department of Water has submitted the subject project Draft EA to both the Division of Forestry and Wildlife and the State Historic Preservation Division of the Department of Land and Natural Resources for review and comments.

We received responses (copy attached) from both the Division of Forestry and Wildlife and the State Historic Preservation Division with no objections to the proposed project. As requested by the State Historic Preservation Division, if archaeological/historic sites are found during the construction activities, all work in the vicinity of such finds will stop and the appropriate measures will be taken.

We appreciate your review and comments on the proposed project. Should you have any questions, please do not hesitate to contact William Eddy, Project Engineer, at (808)245-5412.

Sincerely,



Ernest Y.W. Lau
Manager and Chief Engineer

WE:et
Attachments
ENCLOSURE



STATE OF HAWAII
 DEPARTMENT OF LAND AND NATURAL RESOURCES
 LAND DIVISION
 3060 EIWA STREET, 4TH FLOOR
 LIHUE, HAWAII 96766

AGRICULTURE DEVELOPMENT
 PROGRAMS
 ADMIN. SERVICES
 BUREAU OF CONSERVATION
 LAND DIVISION
 CONSTRUCTION AND REPAIRS
 CONTRACTS
 ENVIRONMENTAL SERVICES
 HISTORIC PRESERVATION
 LAND DIVISION
 STATE PLANS
 WATER RESOURCE MANAGEMENT

DWC

DEPARTMENT OF WATER

County of Kauai

"Water As a Substratum - Conserve It!"

MAILED
 MAY 21 1998

KD-98:1317

March 4, 1998

May 15, 1998

Ernest Y.W. Lau, Manager
 County of Kauai, Department of Water
 P.O. Box 1706
 Lihue, Hawaii 96766

Mr. Sam Lee
 Dept. of Land & Natural Resources
 Land Division
 3060 Eiwa Street, Room 306
 Lihue, HI 96766

Subject: Job No. 95-3, Kekaha to Waimea Booster Pump
 Station, Waimea, Kauai

Dear Mr. Lau:

We have had the opportunity to review the draft environmental assessment for the above referenced subject matter and have no comments or recommendations to offer at this time.

Thank you for the opportunity to review this matter.

Very truly yours,

Sam Lee

SAM LEE
 Kauai District Land Agent

c: Dean Uchida, Land Division Administrator
 Lynn McCrory, Kauai Land Board Member

HL:ml

Dear Mr. Lee:

Subject: Draft Environmental Assessment - Job No. 95-3,
 Kekaha to Waimea Booster Pump Station

Thank you for your letter of March 4, 1998 regarding the Draft Environmental Assessment for the subject project. We appreciate your review and comments.

Sincerely,

Ernest Y.W. Lau

Ernest Y.W. Lau
 Manager and Chief Engineer

WE:et

MAILED
MAY 21 1998

DEPARTMENT OF WATER
County of Kauai

"Water has no Substitute - Conserve It"

MANAGEMENT SERVICES DIVISION
DIVISION OF LAND AND NATURAL RESOURCES
DEPARTMENT OF WATER
COUNTY OF KAUAI
33 SOUTH KING STREET, 6TH FLOOR
HONOLULU, HAWAII 96813



STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
STATE HISTORIC PRESERVATION DIVISION
33 SOUTH KING STREET, 6TH FLOOR
HONOLULU, HAWAII 96813

March 9, 1998

Mr Ernest Lau, Manager and Chief Engineer
Department of Water/County of Kauai
P O Box 1706
Lihue, Kauai, Hawaii 96766

LOG NO: 21443 ✓
DOC NO: 9803NA101

Dear Mr. Lau:

SUBJECT: Chapter 6E-42, Historic Preservation Review --Job No. 95-3
(Department of Water, County of Kauai)
TMK: 1-2-06: 41
Kekaha, Waimea, Kauai

A review of our records indicates the absence of historic sites on this property. Although, burial have been found in the near by area in the sand substrate (Waimea Plantation Cottages), this parcel is quite small (50 x 50 feet, approx.) and it seems to be in the road right-of-way and may have had its land surface altered, making the likelihood of significant sites being present unlikely. Thus, we believe that your application will have "no effect" on significant historic sites with the following condition attached to this permit, as a contingency:

- 1) If historic sites, including human burials, are uncovered during the construction activities, all work in the vicinity of such finds must stop and the State Historic Preservation Division must be contacted at 742-7033

If you have any questions, please call Nancy McMahon at 742-7033

Aloha,

DON HIBBARD, Administrator
State Historic Preservation Division

c KIRC

May 15, 1998

Mr. Don Hibbard, Administrator
Dept. of Land & Natural Resources
State Historic Preservation Division
33 South King Street, 6th Floor
Honolulu, HI 96813

Dear Mr. Hibbard:

Subject: Draft Environmental Assessment - Job No. 95-3,
Kekaha to Waimea Booster Pump Station

Thank you for your letter of March 9, 1998 regarding the Draft Environmental Assessment for the subject project. We appreciate your review and comments.

Sincerely,

Ernest Y.W. Lau
Manager and Chief Engineer

HE:et

4/15/98 10:03 AM



DEPARTMENT OF WATER
County of Kauai

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HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF FORESTRY AND WILDLIFE

KAHUA DISTRICT
3060 EIWA STREET, ROOM 205
LIHUE, KAUAI, HAWAII 96766

RECEIVED 5:21:43

NO REPLY REFER TO

March 23, 1998

Ernest Y. W. Lau
Manager and Chief Engineer
County of Kauai Department of Water
P. O. Box 1706
Lihue, HI 96766

Dear Mr. Lau:

Subject: Job No. 95-3 - Kekaha to Waimea Booster Pump Station, Waimea, Kauai

I have reviewed your draft environmental assessment for the subject job, dated February 1998, and find it to be adequate and complete with respect to potential impacts to wildlife resources.

Thank you for the opportunity to review the document.

Sincerely,

Thomas C. Telfer
District Wildlife Manager

May 15, 1998

Mr. Thomas C. Telfer
District Wildlife Manager
Dept. of Land & Natural Resources
Division of Forestry and Wildlife
3060 Eiwa Street, Room 205
Lihue, HI 96766

Dear Mr. Telfer:

Subject: Draft Environmental Assessment - Job No. 95-3, Kekaha to Waimea Booster Pump Station

Thank you for your letter of March 23, 1998 regarding the Draft Environmental Assessment for the subject project. We appreciate your review and comments.

Sincerely,

Ernest Y.W. Lau
Manager and Chief Engineer

WE:et

96766-1706

98-079

DATE
DELIVERY



STATE OF HAWAII
OFFICE OF ENVIRONMENTAL QUALITY CONTROL

141 SOUTH ELIZABETH STREET
HONOLULU, HAWAII 96813
TELEPHONE 586-4185
FACSIMILE 586-4188

March 20, 1998

BENJAMIN J. LAVETANO
Director

Mr. Ernest Lau
Department of Water
County of Kauai
4398 Pua Loka Street
Lihue, Hawaii 96766

Dear Mr. Lau:

Subject: Draft Environmental Assessment for the Kekaha to Waimea
Booster Pump Station, Kauai

Thank you for the opportunity to review the subject document. We have the following comments.

1. This project will allow water (design capacity of 400 gpm) to be transferred from Kekaha to Waimea. Please analyze how the proposed project may affect land and water uses in both Kekaha and Waimea. The analysis should include a discussion of the following:
 - * Any changes to the County General or Development Plans;
 - * Any secondary or cumulative impacts caused by promoting growth in Waimea and discouraging development in Kekaha;
 - * Any economic, social or cultural impacts associated with transferring water from Kekaha to Waimea.
2. Please list all federal, state and county permits that would be required for this project.
3. Please discuss the findings and reasons for supporting the FONSI determination based on the significant criteria listed in §11-200-12 of the EIS rules. Please see the enclosed example.

Should you have any questions, please call Jeyan Thirugnanam at 586-4185.

Sincerely,

Gary Gill
Director

Enclosure

DEPARTMENT OF WATER

County of Kauai

"Water has no Substitute - Conserve It!"

May 14, 1998

Mr. Gerry Gill, Director
State of Hawaii
Office of Environmental
Quality Control
235 South Beretania Street, Suite 702
Honolulu, HI 96813

Dear Mr. Gill:

Subject: Draft Environmental Assessment - Job No. 95-3, Kekaha to
Waimea Booster Pump Station

This letter is in response to your letter of March 20, 1998 regarding the Draft EA for the subject project. Your concerns, along with others received, will be addressed in the forthcoming Final Environmental Assessment. Listed below are your comments along with the Department of Water's responses:

OEQC COMMENT NO. 1

This project will allow water (design capacity of 400 gpm) to be transferred from Kekaha to Waimea. Please analyze how the proposed project may affect land and water uses in both Kekaha and Waimea. The analysis should include a discussion of the following:

- Any changes to the County General or Development Plans;
- Any secondary or cumulative impacts caused by promoting growth in Waimea and discouraging development in Kekaha;
- Any economic, social or cultural impacts associated with transferring water from Kekaha to Waimea.

DOW RESPONSE TO COMMENT NO. 1

The General Plan for the County of Kauai, dated March 1970 and the General Plan Update dated June 21, 1984, provide information on the surrounding communities and land use designations. Also provided are generalized statements regarding transportation, sewer and water systems, storm drainage, etc. Section 7-2.1 of the General Plan Update states as its goal:

"To promote and protect the health, safety and welfare of all residents and visitors, and to promote the improvement and expansion of the island's economy, by recognizing and carefully utilizing land and water resource."

The proposed booster pump station is consistent with the General Plan Update and will not require or cause any changes to the County General Plan.

Secondary or cumulative impacts, such as influencing land development in either Waimea or Kekaha, are not anticipated. Land development is

Mr. Gerry Gill
Page 2
May 14, 1998

controlled by market and economic considerations and conformance with land use and general plan policies that are not influenced by this project. Therefore, the proposed project should not directly result in increased land development in either Kekaha or Waimea.

The proposed project will have little economic or social impact on the surrounding communities. The Kekaha and Waimea Water Systems were interconnected by an 8-inch diameter pipeline during the 1960's. Water has been transferred between the two towns since the two systems were connected; the proposed booster pump station will only reinforce this existing link.

OEQC COMMENT NO. 2

Please list all Federal, State and County permits that would be required for this project.

DOW RESPONSE TO NO. 2

County of Kauai, Planning Department: Special Management Area Use Permit, Use Permit, Class IV Zoning Permit (all approved on 2/26/98).

County of Kauai, Department of Public Works, Building Division: Building Permit (plans have not yet been submitted for permit).

No State or Federal permits are required.

OEQC COMMENT NO. 3

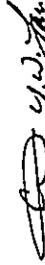
Please discuss the findings and reasons for supporting the FOHSI determination based on the significant criteria listed in §11-200-12 of the EIS Rules. Please see the enclosed example.

DOW RESPONSE TO COMMENT NO. 3

The significance criteria is discussed in Section 7.0. "Findings and Reasons Supporting Determination" of the forthcoming Final Environmental Assessment. A copy of Section 7.0 is attached.

We trust that our response adequately addresses your concerns regarding the proposed project. Should you have any questions, please do not hesitate to contact William Eddy, Project Engineer, at (808) 245-5412.

Sincerely,



Ernest Y.W. Lau
Manager and Chief Engineer

WEL:et
Enclosure

MAILED
MAY 21 1998

DEPARTMENT OF WATER
County of Kauai

"Water has no Substitute - Conserve It!"

CESAR C. PORTUGAL
COUNTY ENGINEER
TELEPHONE 241-9500

RUSSELL SIUGANO
ACTING DEPUTY COUNTY ENGINEER
TELEPHONE 241-9531



AN EQUAL OPPORTUNITY EMPLOYER
COUNTY OF KAUAI
DEPARTMENT OF PUBLIC WORKS
4444 RICE STREET
MOIENA BUILDING SUITE 273
LIHUE, KAUAI, HAWAII 96766

February 24, 1998

Department of Water
County of Kauai
P.O. Box 1706
Lihue, Hawaii 96766

Attention: Mr. Ernest Lau
Gentlemen:

SUBJECT: JOB NO. 95-3 KEKAHA TO WAIMEA BOOSTER
PUMP STATION, DRAFT ENVIRONMENTAL ASSESSMENT

We reviewed the subject Draft Environmental Assessment and have no comments.
Thank you for the opportunity to review and offer our comments. Should you have any questions, please feel free to contact Mr. Wallace Kudo of my staff at 241-6620.

Very truly yours,

[Signature]
CESAR C. PORTUGAL
County Engineer

WK/cu
attachment

May 15, 1998

Mr. Cesar C. Portugal
County Engineer
Dept. of Public Works
4444 Rice Street, Suite 273
Lihue, HI 96766

Dear Mr. Portugal:

Subject: Draft Environmental Assessment - Job No. 95-3,
Kekaha to Waimea Booster Pump Station

Thank you for your letter of February 24, 1998 regarding the Draft Environmental Assessment for the subject project. We appreciate your review and comments.

Sincerely,

[Signature]

Ernest Y.W. Lau
Manager and Chief Engineer

WE:et
04/21/98