	BENJAMIN J. CAYETANO				
	GOVERNOR OF HAWAII		ATT COT ANT		TIMOTHY E. JOHNS, CHAIRPERSON BOARD OF LAND AND NATURAL RESOURCES
					DEPUTY JANET E. KAWELO
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			STATE OF HAWAII	-	HISTORIC PRESERVATION
		DEPARTM	ENT OF LAND AND NATURAL	RESOURCES	- LAND DIVISION. • ENGINEERING BRANCH • PLANNING BRANCH TECHNICAL & SUPPORT BRANCH STATE PARKS
			P. O. BOX 621 HONOLULU, HAWAII 96809		
			MAY 2 4 1999		24 P1:14
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	0	Department of He	ealth		
	FROM:	Timothy E. Johns	, Chairperson Mut EK	mode	
	۲ SUBJECT:				
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-	We have revie	ewed the comments	received during the 30-day pu	ublic comment per	iod, which
	environmental	effects and have is	ve determined that this project sued a FONSI. Please publish	4	1 0
	OEQC Enviro	nmental Notice.	und an Orion. Fiease publisi	in this notice in the	June 8, 1999,
	We have enclo	sed a completed O	EQC Publication Form and fo		~ .
	Datenormienta	Assessment. Pleas 7-0230 if you have	Se call Mr Andrew Mondon /	ur (4) copies of the Chief Engineer of	e final the Land
			any questions.		
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	FINAL ENVIRONMENTAL ASSESSMENT	
- A	HINA LANI TRANSMISSION LINE AND RESERVOIR MODIFICATIONS	
	State of Hawaii Department of Land and Natural Resources	
	May 1999	

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# FINAL ENVIRONMENTAL ASSESSMENT

# HINA LANI TRANSMISSION LINE AND RESERVOIR MODIFICATIONS

TMK: 7-3-47 (Hina Lani Street), 7-3-09: 19, 29, and 30

**PROPOSING AGENCY:** 

State of Hawaii Department of Land and Natural Resources

Submitted Pursuant to Chapter 343, HRS

Prepared by:

State of Hawaii Department of Land and Natural Resources Land Division, Engineering Branch 1151 Punchbowl Street, Room 221 Honolulu, Hawaii 96813

May 1999

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## I. <u>PROJECT DESCRIPTION</u>

### A. <u>Project Location</u>

The proposed project area is located along Hina Lani Street, which is approximately two miles north of Kailua-Kona town, in the North Kona District on the Island of Hawaii (see Figures 1 and 2).

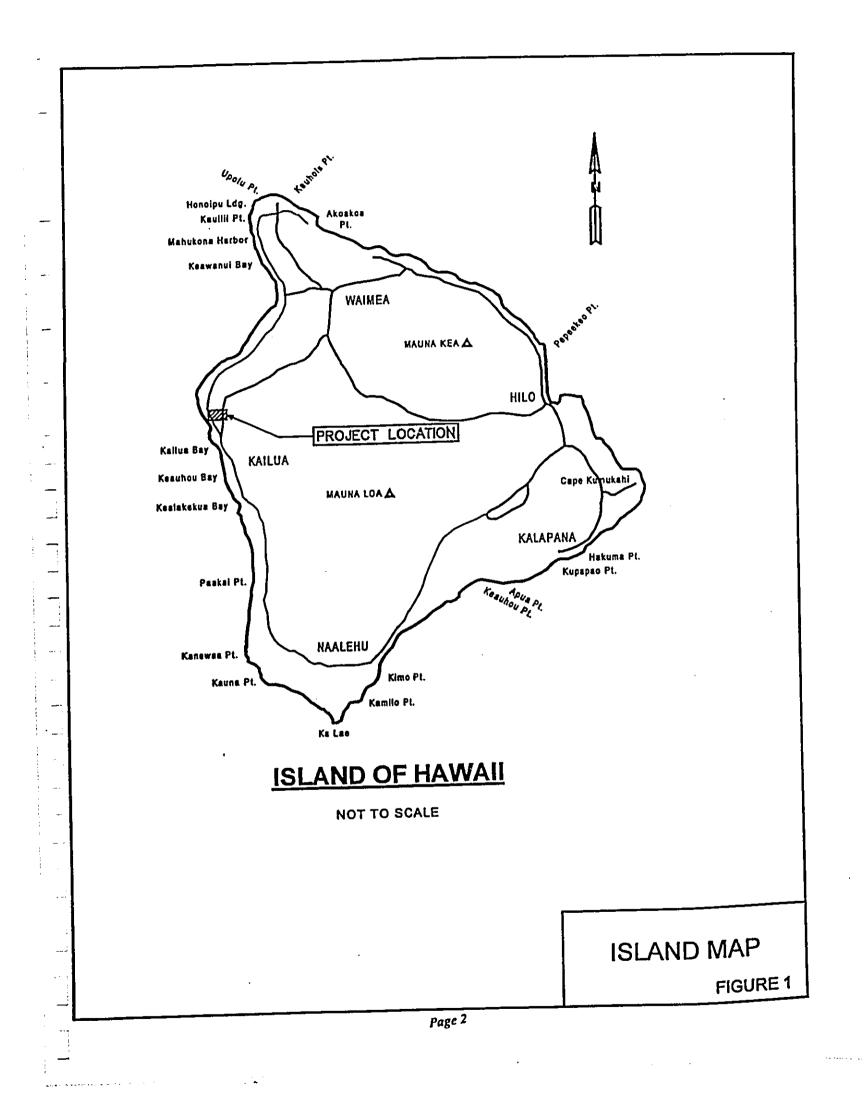
#### B. <u>Purpose of the Project</u>

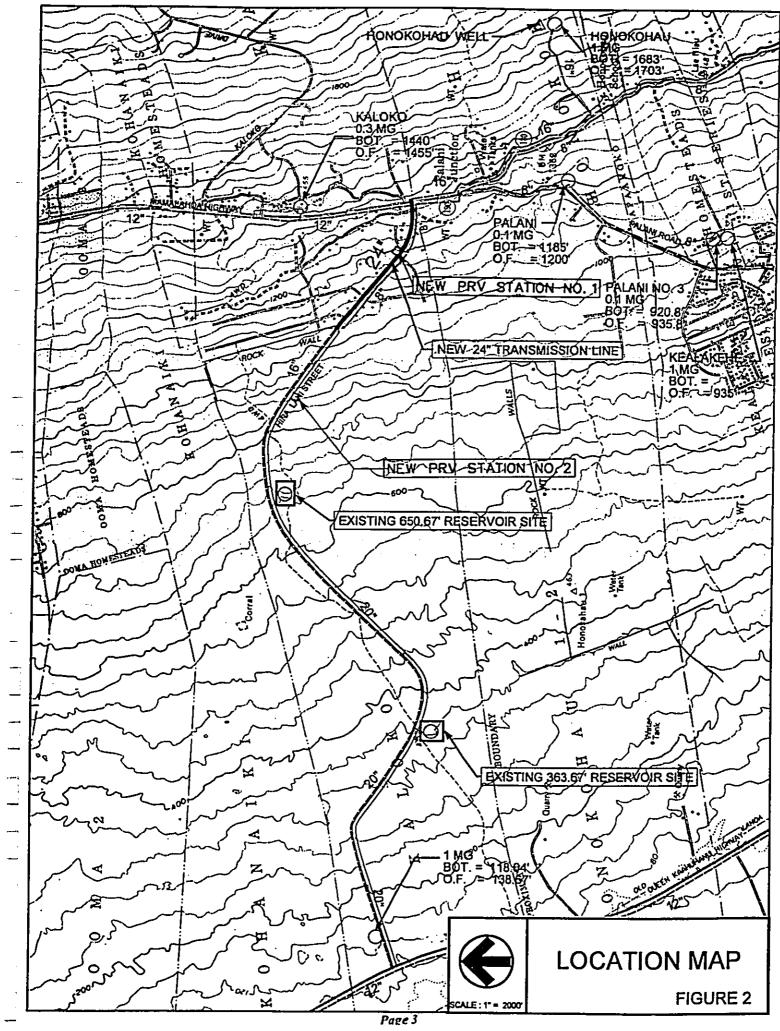
The proposed water improvement project will permit water from existing highlevel well sources, located mauka of Mamalahoa Highway, to be transmitted by gravity to areas along the coast between Keahole-Kona International Airport and Honokohau Harbor. This would relieve the pumping at the Kahaluu Shaft, which currently supplies water to the area via 12, 16, 20, and 24-inch mains along Kuakini Highway and Queen Kaahumanu Highway. Over the years, the chloride levels at the shaft have steadily risen, limiting its pumping capacity.

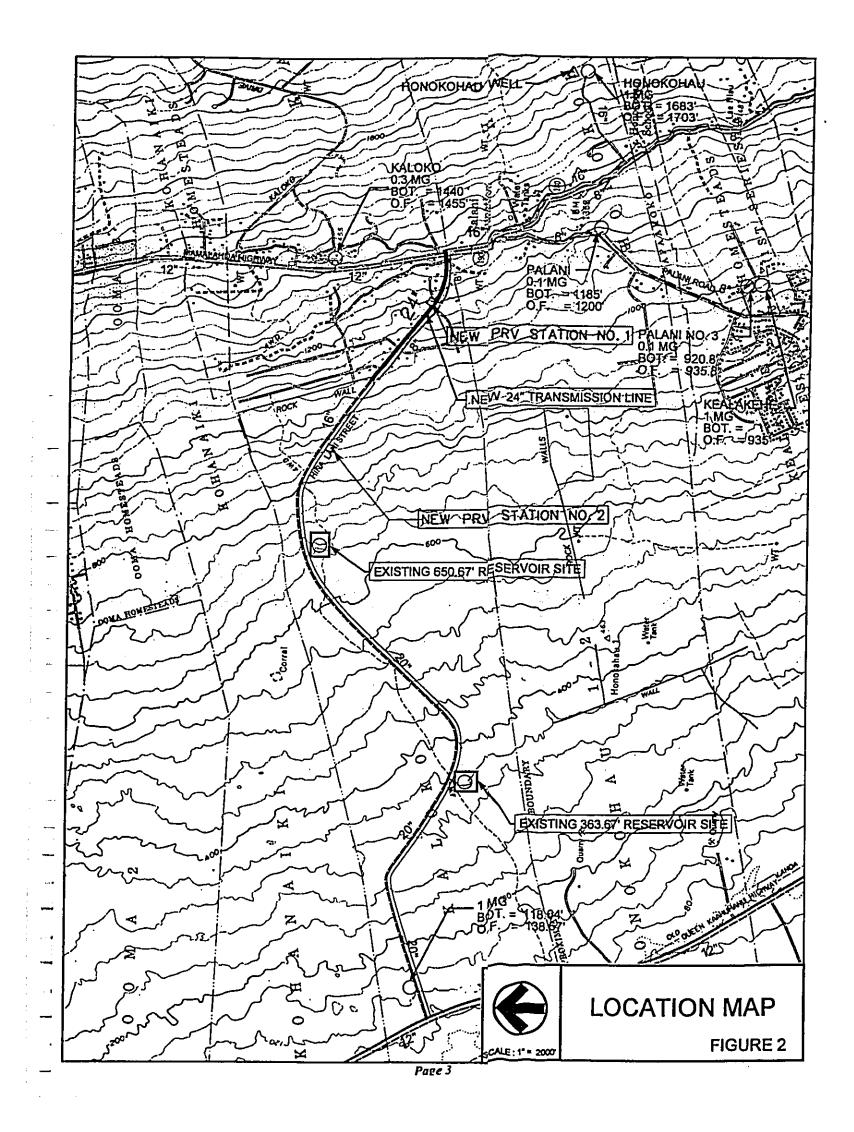
## C. Proposed Project

The main components of the proposed project includes installation of 3,200 lineal feet, 24-inch transmission line along the north shoulder of Hina Lani Street between Mamalahoa Highway and Anini Place; installation of two pressure reducing valve (PRV) stations at the 1190 and 910.5 feet elevations, which will be referred to herein as PRV Station No. 1 and No. 2, respectively; and retrofitting the valving systems at two existing reservoirs along Hina Lani Street, with spillway elevations at 363.67 feet and 650.67 feet (see Figure 2).

The transmission line will connect the Hawaii County, Department of Water Supply's (DWS)12-inch main along Mamalahoa Highway to their 16-inch main along Hina Lani Street. At the two reservoir sites, new above ground level control valves and electrical controls will be installed for a fully automated telemetry system.







PRV Station No. 2 will be built above ground on a small portion of private land owned by Y.O., Ltd., where a grant of easement will be obtained. PRV Station No. 1 will be installed in a manhole below ground along the transmission line. Except for the PRV Station No. 2, all construction work will remain within the paved and grassed portions of the street right-of-way and within the existing reservoir sites.

On the long-term, future improvements to the Hina Lani Street Transmission Line include constructing two reservoirs to replace the PRV stations. Locations of the reservoirs are unknown at this time.

### D. <u>Project Schedule, Cost, and Funding</u>

Construction of the project is expected to begin in early 2000, with an approximate one-year construction period. The construction cost is estimated to be \$1,300,000.00. Funding for the project will be from the Capital Improvement Program funds.

## E. Existing Water System

The DWS owns and operates the existing water system in North Kona. The water system along Hina Lani Street consists of an upper portion near Mamalahoa Highway and the lower portion near Queen Kaahumanu Highway. The upper portion of the system is older and consists of the 8-inch line, which services the Kona Heavens Subdivision. The lower portion consists of the three 1 million gallon (MG) reservoirs (located at the 138.67', 363.67' and 650.67' spillway elevation); three booster pump stations, one located at each of the reservoir site, a 20-inch pipeline connecting the three reservoirs together; and a 16-inch pipeline which connects the 650.67' reservoir to the 8-inch Kona Heaven waterline from Mamalahoa Highway. The 650.67' and 363.67' reservoirs are currently used to provide water storage and fire protection for the Kaloko Industrial Park Subdivision. These two systems are currently separated by a line discontinuity at PRV Station No. 2 site.

The upper system currently receives water by gravity from the Honokohau and Keahuolu high-level wells through 8-inch, 16-inch, and 12-inch lines along Mamalahoa Highway. The lower system receives water from the Kahaluu sources, which is pumped up from the 12-inch main along Queen Kaahumanu Highway to the 363.67' and 650.67' Reservoirs.

## F. <u>Hina Lani Street</u>

Hina Lani Street is a two-lane mauka-to-makai 3.4 mile long roadway connecting Mamalahoa Highway to Queen Kaahumanu Highway. The roadway has an 80 feet right-of-way, with buried water and electric lines. Along both sides of the roadway are A.C. swales for drainage. Located at the mauka and makai ends of the roadway, is the Kona Heavens Subdivision and the Kaloko Industrial Park, respectively. The area between the subdivision and industrial park is currently undeveloped. Traffic along the roadway is moderate and used mostly by the Kona Heavens Subdivision residences and by people traveling to and from the Kaloko Industrial Center.

## II. DESCRIPTION OF THE ENVIRONMENT

## A. <u>Physical Environment</u>

1. Regional Overview

The transmission line alignment is within the developed Kona Heavens Subdivision, whereas the reservoir sites lie predominantly within undeveloped private lands (except for the industrial subdivision located along Queen Kaahumanu Highway). The private lands are owned by Tokyo Green Hawaii. The former owners, TSA International, Ltd. envisioned residential, commercial, and industrial developments.

2. Land Ownership

The proposed transmission line, including PRV Station No. 1, will be constructed along Hina Lani Street, which is a County of Hawaii, public

right-of-way (see Figure 3). The reservoir modifications will be done at the 650.67' and 363.67' Reservoir sites along Hina Lani Street, on property owned by the County of Hawaii. The reservoir sites are designated as TMK: 7-3-09: 29 and 30, respectively. PRV Station No. 2 will be built on land owned by Y.O. Ltd., which is designated as TMK: 7-3-09: por. 19 (see Figure 4).

3. Topography

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The area along Hina Lani Street slopes downward toward the west. Generally, the slope changes from flat to steep as the elevation increases. The slope along the transmission line alignment and PRV stations ranges between 10 to 20 percent and the elevation changes from 1036 feet to 1338 feet above mean sea level (msl).

The reservoir sites have the following elevations and slopes:

<u>363.67' Reservoir Site</u> - The slope of the 1.28-acre site varies from 10 to 40 percent. The elevation ranges from 343 feet to 359 feet (msl).

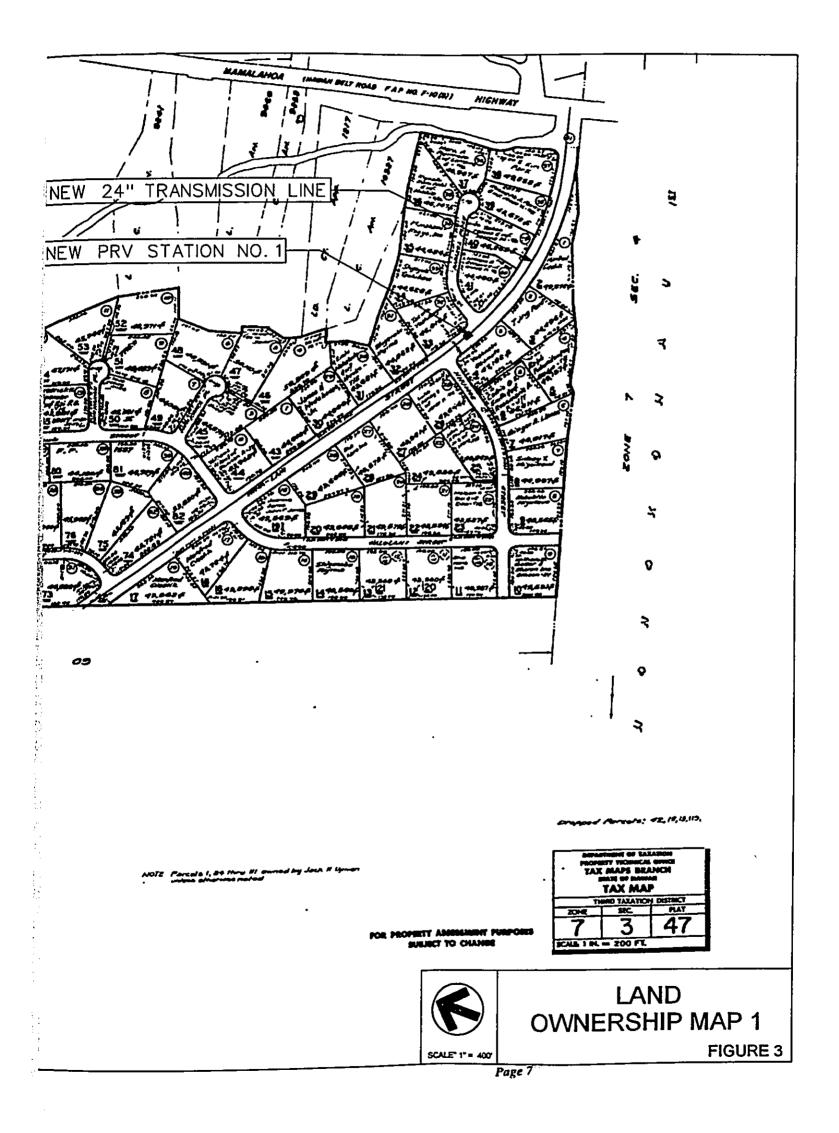
<u>650.67' Reservoir Site</u> - The slope of the 0.96-acre site varies from 15 to 70 percent. The elevation ranges from 894 feet to 944 feet msl.

4. Soils

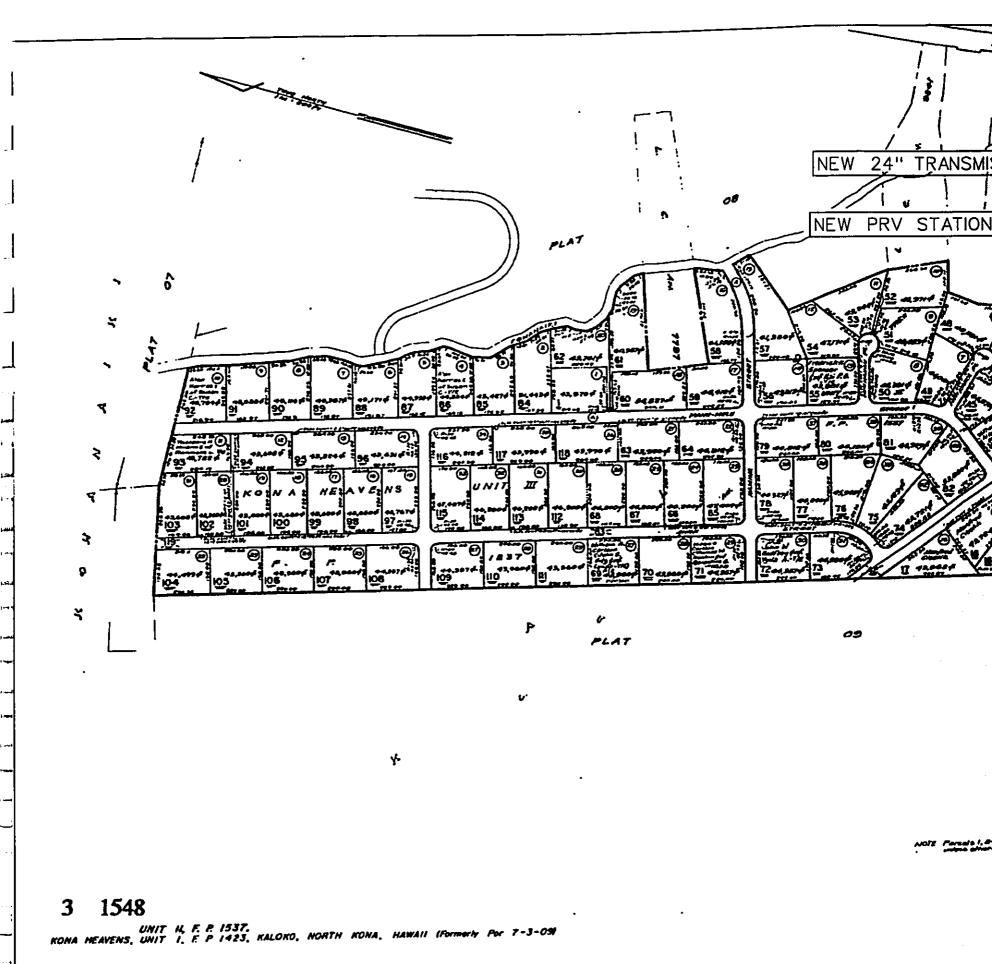
The soil types present in the vicinity of the project areas are shown in Figure 5 and described below:

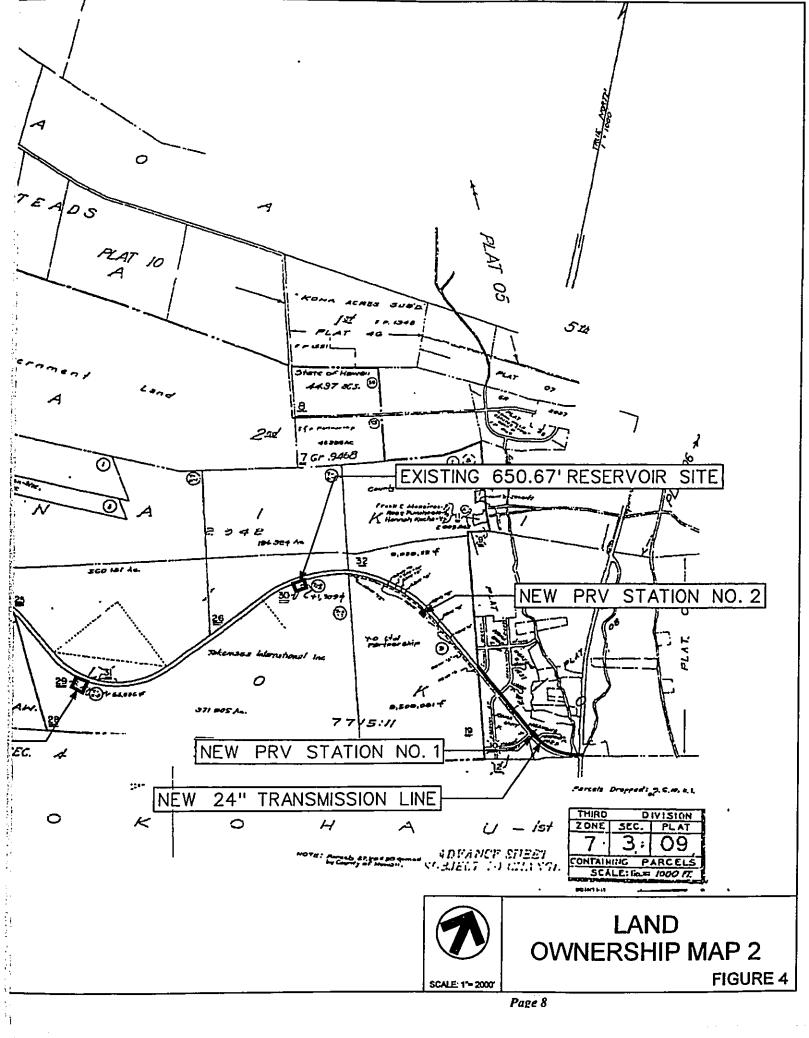
Along the Transmission Line and PRV Station No. 1 - Punaluu extremely rocky peat (rPYD). Rock outcrops occupy 40 to 50 percent of the surface. The surface is black peat underlain by pahoehoe lava bedrock. Runoff is slow and the erosion hazard is high.

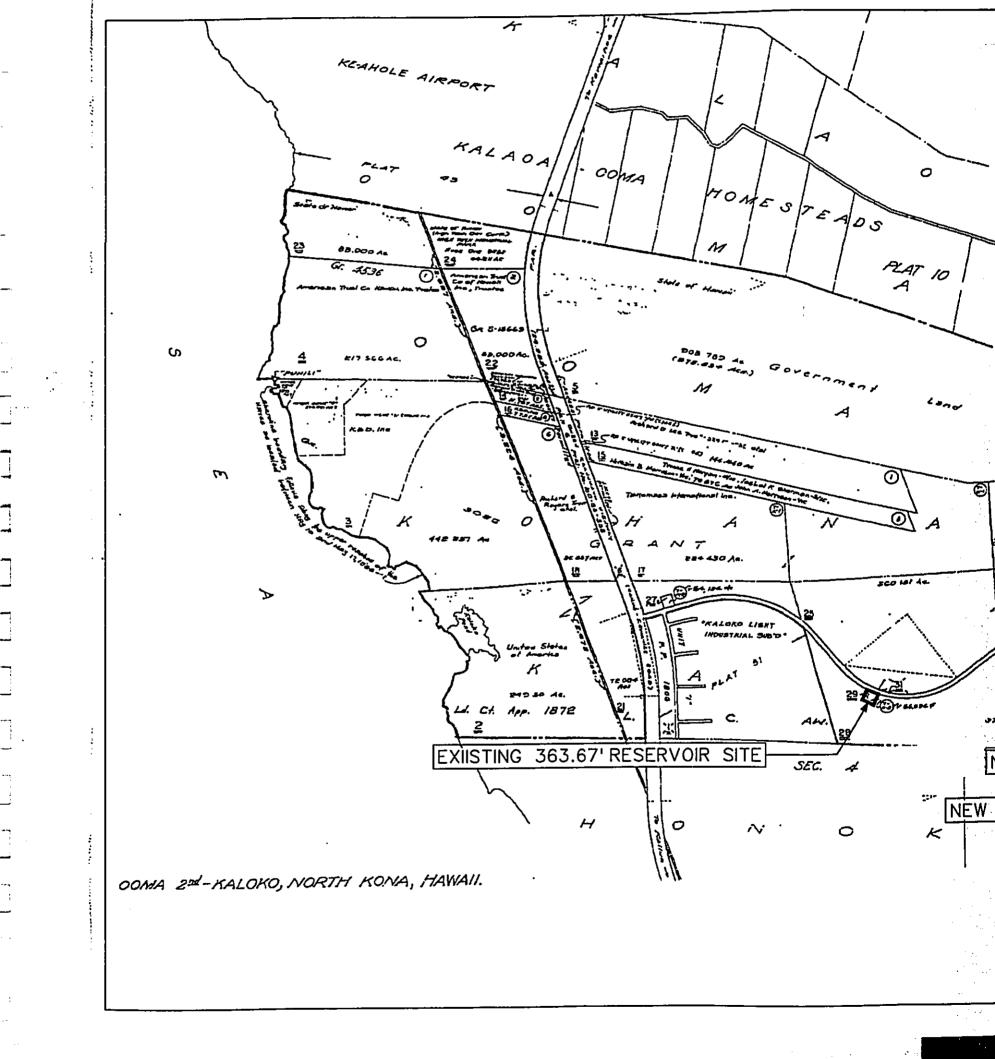
<u>363.67' Reservoir Site</u> - Aa Lava flows (rLV). The lava is rough and broken. It is a mass of clinkery, hard, glassy, sharp pieces piled in tumbling heaps.



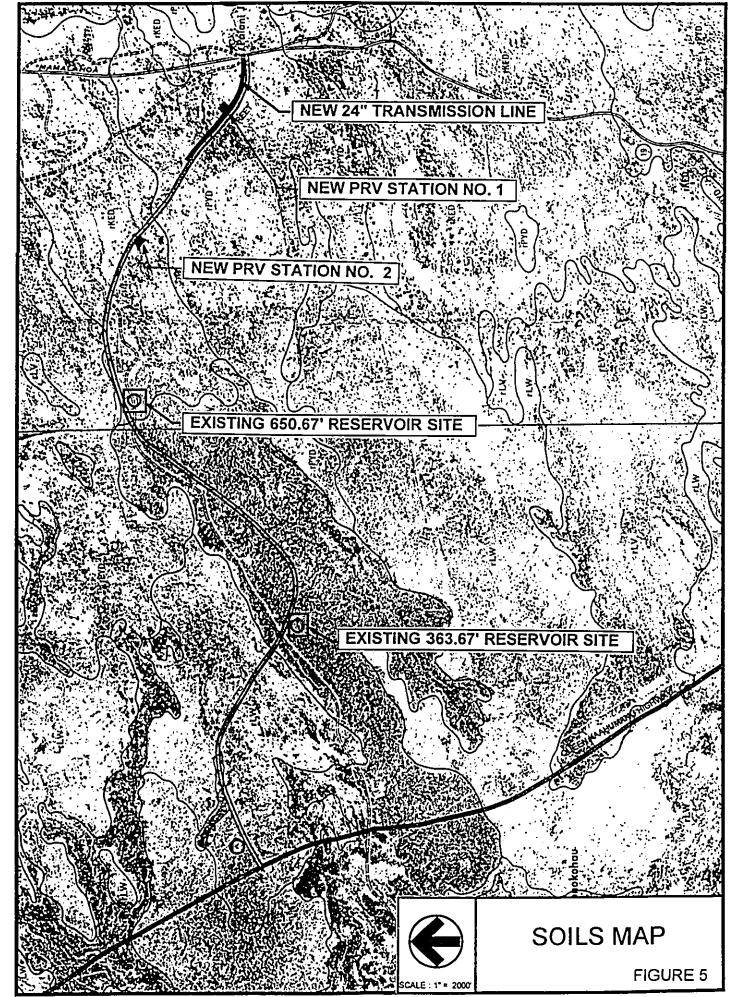








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<u>650.67' Reservoir Site and PRV Station No. 2</u> - Kaimu, extremely stony peat (rKED). The surface layer is very dark brown, extremely stony peat, underlain by fragmental Aa lava. Permeability is rapid, runoff is slow, and erosion hazard is slight.

5. Climate

The project area lies in a semi-tropical region, which is considered to be dry and arid with light rainfall. The average temperature is 75 degrees Fahrenheit, with an average high of 83 degrees Fahrenheit. The median annual rainfall in the area varies from 25 to 40 inches. Land and sea breezes prevail in the area, while the northeasterly tradewinds are blocked by the Mauna Kea, Mauna Loa, and Hualalai mountain<sup>5</sup>.

# 6. Flood/ Tsunami Hazards

The Federal Emergency Management Agency's June 2, 1995 Flood Insurance Rate Map (FIRM) for Hawaii County designates the project site within Zone X, areas determined to be outside the 500-year flood plain. The project area is also outside tsunami inundation areas.

# 7. Archaeological and Historical Features

An environmental document titled, "Environmental Assessment for the Kaloko Water System Improvements", dated June 1990, was prepared for the County of Hawaii, Department of Water Supply and TSA International, Ltd. for the existing Hina Lani Street Reservoirs and connecting pipeline project. The environmental assessment cites two archaeological reconnaissance surveys that were conducted for the three existing reservoir sites prior to the construction of the reservoirs. The earlier survey, done in October 1987, titled "Archaeological Reconnaissance Survey Kaloko Water Tank Sites", included the 363.67' and 650.67' Reservoir sites. No archaeological resources were found within those sites.

The survey also evaluated another site where PRV Station No. 2 is to be located. Only one site was identified, a rock wall, which is located approximately 150 feet from the proposed PRV site. The wall is a corefilled wall measuring 1.0 meter wide by 1.3 meters high and is constructed of Aa boulders, small boulder, and cobble fill. The wall was given a permanent State inventory number 10-28-10, 887 by the Department of Land and Natural Resources, Historic Preservation Division. The survey concluded that the wall was significant solely for its information content. The information collected during the survey was adequate and sufficient to warrant recommending no additional archaeological field work is necessary. A letter dated October 22, 1987, from the State Historic Preservation concurred with the conclusion. The letter also stated that the project will have "no effect" on significant historic sites.

8. Flora

Based on the Kaloko Water System Environmental Assessment, there are two plant species that dominate the project area. They are the koa haole (leucaena leucocephala) and the fountaingrass (Pennisentum). Other vegetation found in the area are the ilima, uhaloa, naio, lantana, and kiawe.

According to the Nature Conservancy's data base and the U.S. Fish and Wildlife Service's records, there are four different endangered species located near the 363.67' Reservoir site and one endangered species located within the vicinity of the 650.67' and 363.67 Reservoir sites.

Three of the four endangered species near the 363.67' Reservoir site are located in one location approximately 800 feet south of the reservoir site on a gently-sloped, relatively recent Aa lava flow. These are: <u>Mariscus fauriei</u> (no common name), Ma'aloa (<u>Neraudia ovata</u>), 'Aiea (<u>Nothocestrum breviflorum</u>).

The fourth endangered species is a solitary Uhiuhi (<u>Caesalpinia</u> <u>kavaiensis</u>) tree located approximately 1800 feet west of the 363.67'

Reservoir site. The fifth endangered species, the Halapepe (<u>Pleomele</u> <u>hawaiiensis</u>), was observed in an area between the 363.67' and 650.67' Reservoir sites.

9. Fauna

The environmental assessment also identified several types of birds and mammals that may be present in the area. The birds identified were the Hawaiian Owl (<u>Asio fammeus sandwichensis</u>), which is an endemic species native to the Hawaiian Islands; the Golden Plover (<u>Pluvialis</u> <u>dominca fulva</u>), Wandering Tattler (<u>Heteroscelus incanus</u>), and Ruddy Turnstone (<u>Arenaria interpres</u>), which are indigenous Hawaiian birds; and the Indian Grey Francolin, Barred Dove, Common Mynah, Japanese White-eye, House Finch, House Sparrow, and Cardinal, which are birds that were introduced to the islands.

The Mongoose (<u>Herpestes auropunctatus</u>), House Mouse (<u>Mus musculus</u> <u>domesticus</u>), Black Rat (<u>Rattus rattus</u>), Polynesian Rat (<u>Rattus exulans</u> <u>hawaiiensis</u>), and Feral Cats (<u>Felis catus</u>) were identified in the environmental assessment as being probable in the general area.

According to the Nature Conservancy and the U.S. Fish and Wildlife Service, two federally endangered mammals, the Hawaiian Hawk (<u>Buteo</u> <u>solitarius</u>), and the Hawaiian Hoary Bat (<u>Lasiurus cinereus semotus</u>) are in the vicinity and may be present in the project area.

10. Air Quality

According to the Department of Health, Clean Air Branch, Monitoring Section, air quality in the Kona area is adversely impacted by the frequent volcanic eruptions at Kilauea. Visibility has decreased and concentrations of sulfur dioxide has increased, due to the volcanic eruptions. Pollution from industrial emissions is small.

The Hawaiian Electric Light Company generation station at Keahole is the only source of industrial emissions in the area.

11. Noise

Noise within the vicinity of the project area is generated primarily from airport and automobile traffic. Queen Kaahumanu Highway, a busy thoroughfare between Kailua-Kona and the resort areas in south Kohala is adjacent to the project area. The Keahole International Airport is located over two miles north of reservoir sites.

# B. <u>Socio-economic Environment</u>

## 1. Population

According to the State of Hawaii Data Book 1996, the estimated resident population for the County of Hawaii in 1995 was 137,291, an average growth of 2.8-percent a year from the 1990 population of 120,317. In North Kona, the resident population increased at the same rate from 22,284 in 1990 to 25,447 in 1995. This growth is slow compared to the rapid growth North Kona experienced between 1980 to 1990, where the population increased an average of 6.2-percent a year. The slower growth in population can be attributed to the downturn of the economy, which began in the early nineties and affected the entire State. The slower growth is expected to continue on until the year 2020, where the population of the County of Hawaii is projected to be 205,400.

2. Economy

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The West Hawaii's economy is based largely on the visitor industry. In the last decade, major resorts have been constructed or planned along the South Kohala and North Kona coasts. Due to the downturn in the economy, planned developments have been scaled down or postponed indefinitely. The recent direct flights from Japan to the Keahole International Airport has slightly revived the tourism industry in West Hawaii.

Other industries in the area include aquaculture, agriculture, and ranching. The crops grown in North Kona include coffee, fruits (bananas and avocados) macadamia nuts, and vegetables.

# C. Infrastructure

1. Roadways

Queen Kaahumanu Highway, which parallels the coast, is the main arterial roadway between the North Kona and South Kohala Districts. The highway is a two-lane, two-way highway with shoulders, Class I State Highway. The Mamalahoa Highway is another major arterial two-lane, two-way roadway, which connects the mauka sections of North and South Kona. Hina Lani Street is a mauka-makai residential collector roadway that connects both highways together.

2. Drainage

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Existing soils consist primarily of Aa and pahoehoe lava, which are extremely permeable. There are no defined channels or streambeds within the project area since rainfall quickly percolates through the lava, disappearing into underground watertables.

# 3. Wastewater System

There are no sewer lines along Hina Lani Street. Kona Heavens Subdivision and the Kaloko Industrial Park are currently using cesspool sewage systems or septic systems. The County of Hawaii's Kealakehe Sewage Treatment Plant (STP) is located over two miles to the south of the reservoir sites on the makai side of Queen Kaahumanu Highway. The STP was constructed in 1993 and has a 20-year design capacity of 2.8 MGD average flow.

4. Solid Waste

Solid waste, collected at the Kealakehe Transfer Station to the south of the project site is disposed at the County's Puu Anahulu landfill. The landfill is located south of Waikaloa and is approximately 18 miles from the project site.

5. Electricity

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Electricity in West Hawaii is provided by the Hawaii Electric Light Co., Inc.

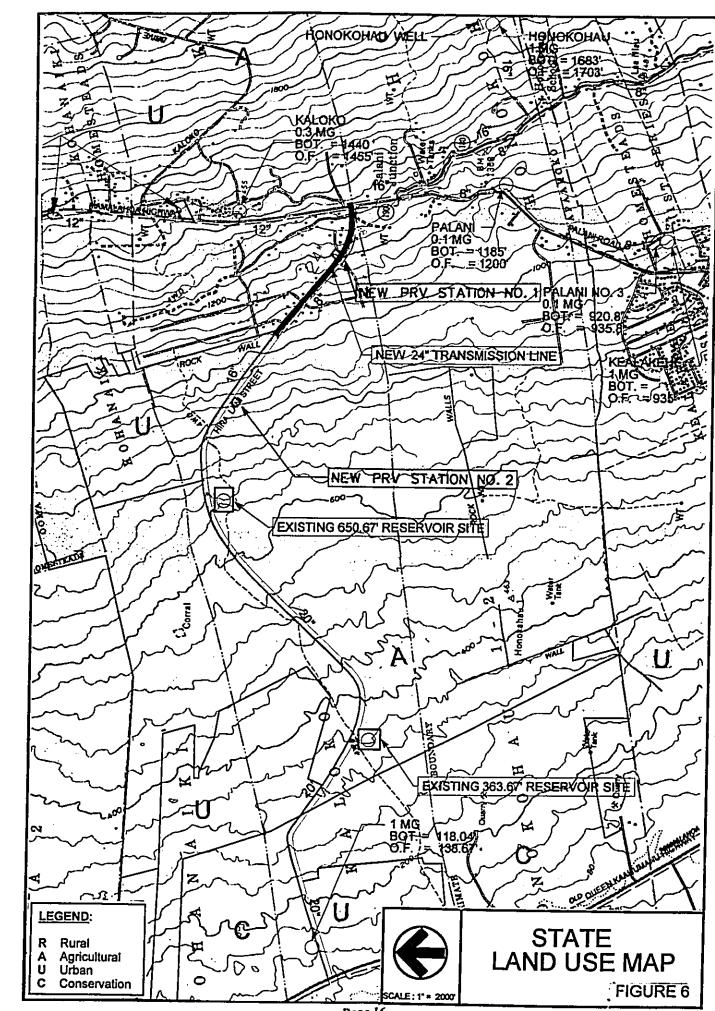
## III. <u>RELATIONSHIP TO PLAN, POLICIES, AND CONTROLS</u>

- A. Land Classification And Zoning
  - 1. State Land Use Designation

The State Land Use Commission regulates the classifications and uses of land to accommodate growth and development, and to retain the natural resources of the area. All lands in the State are classified by the State Land Use Commission as either Urban, Rural, Agricultural or Conservation. For State Land Use designation within the project area see Table 1 and Figure 6.

2. The County of Hawaii General Plan

The Hawaii County General Plan is the policy document for the longrange comprehensive development of the island of Hawaii. The General Plan is adopted by ordinance and provides the direction for the future growth of the County. For the General Plan designation within the project area, see Table 1.





## 3. County Zoning

County zoning districts within the project service area include Residential, Resort, Commercial, Residential, Agricultural, Opened and Unplanned Districts.

Project Description	State Land Use	County General Plan County Zoning Designation	
24" Transmission Main and PRV Stations	Agricultural	Urban Expansion	Agriculture
363.67' Reservoir	Agricultural	Urban Expansion	Agriculture
650.67' Reservoir	Agricultural	Urban Expansion	Agriculture

 Table 1

 Project Land Classification and Zoning

#### B. Keahole to Kailua Development Plan

The "Keahole to Kailua Development Plan", dated April 1991, was prepared for the Hawaii County Planning Department in order to guide future development for the vast tracts of vacant land north of Kailua Town. For water facilities, the plan calls for a water system that will carry water from the mauka high-level sources down to the lower reaches of the system. The project is consistent with the Keahole to Kailua Development Plan, in that it proposes a transmission system along Hina Lani Street.

#### C. North Kona\_Water Master Plan

The "North Kona Water Master Plan", dated 1995, prepared for the State of Hawaii, Department of Land and Natural Resources, specifically proposes that the State transform the existing Hina Lani Street water system into a gravity system to transport water from the high-level wells mauka of Mamalahoa Highway to provide water for projects planned for Keahole-Kona International Airport, Keahole Agricultural Park, Natural Energy Laboratory of Hawaii, and the Hawaii Ocean Science and Technology Park.

# IV. POTENTIAL IMPACTS AND PROPOSED MITIGATION MEASURES

## A. Short Term Impacts

## 1. Air Quality

There will be an increase in dust and vehicular exhaust emission in the vicinity of the project area during construction. Dust control measures will be used to reduce dust if it becomes a problem. Exhaust emission should not have any significant affect on the area because prevailing winds should disperse any exhaust gas concentration.

### 2. Noise

There will be an increase in noise from the construction activity. The noise generated shall conform to the noise regulations established by the State Department of Health.

3. Traffic

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Some disruptions to traffic will occur due to the construction activity along the Hina Lani Street. However, this will be minimized through proper traffic control by the contractor.

4. Excess Water Discharge

Disposal of excess water generated from the hydrotesting and chlorination of the waterline shall comply with all applicable National Pollutant Discharge Elimination System (NPDES) requirements.

B. Long Term Impacts

#### 1. Flora

A portion of the project is located within an area where federally endangered plants are present. Based on information from the Nature Conservancy and the U.S. Fish and Wildlife Service, the endangered plants are located within the vicinity of the the 363.67 and 650.67 Reservoir sites. Construction work will be limited to both reservoir sites and will consist of minor modifications to the existing facilities. No excavation work is required within the reservoir sites. Consequently, no adverse impacts to the endangered plants are anticipated.

### 2. Fauna

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Two federally endangered mammals, the Hawaiian Hawk (<u>Buteo</u> <u>solitarius</u>) and the Hawaiian Hoary Bat (<u>Lasiurus cinereus semotus</u>), may be present in the project area according to the Nature Conservancy and the U.S. Fish and Wildlife Service. No adverse impacts are anticipated to their habitat since most of the construction work will be done within Hina Lani Street and at the existing reservoir sites. Also, only a small portion of vacant private land will be used for PRV Station No. 2.

### 3. Archaeological and Historical Features

Except for the rock wall near the PRV Station No. 2 site, there are no other archaeological features present within or near the project sites. The wall is located approximately 150 feet from the proposed PRV station site and no disturbance to the wall is anticipated. The other project sites have already been previously disturbed by the construction of Hina Lani Street and the reservoir sites. Therefore, it is believed that the project will have "no effect" on historic sites.

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4. Water System

The proposed transmission line and reservoir modifications project will improve the flow of potable water to the Keahole area. Presently, water to the Keahole area is supplied from the Kahaluu Shaft, which has a limited pump capacity due to high chlorides. The new transmission line will allow water from the high-level sources to move makai to the Keahole area reducing the demand for water on the Kahaluu Shaft. Impacts to the existing water system is expected to be positive.

## V. <u>ALTERNATIVES TO THE PROPOSED PROJECT</u>

A. <u>No Project Alternative</u>

The no project alternative would result in no change to the existing conditions. The Keahole area will continually rely on the already taxed Kahaluu Shaft for its water supply.

### B. <u>Alternative Alignment</u>

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An alternative alignment for the transmission main was considered along Kaimi Nani Drive, which is a mauka to makai roadway between Mamalahoa Highway and Queen Kaahumanu Highway north of Hina Lani Street. The Kaimi Nani Drive alignment was found to be more expensive to construct and maintain, and would have more impact to traffic during construction.

#### VI. LIST OF NECESSARY PERMITS AND APPROVALS

The required approvals and permits for the project are:

- A. Permit to perform work upon State highways
- B. Permit to Work in County right-of-way
- C. National Pollutant Discharge Elimination System (NPDES) Permit

<u>Final</u>	Final Environmental Assessment for the Hina Lani Transmission Line and Reservoir Modifications		
VII.			TATION
	А.	Pa	rties Consulted During Preparation of the Draft EA
		1.	Federal Agency
			U.S. Department of the Interior
			Fish and Wildlife Service, Pacific Islands Office
		2.	State Administration/Agencies
			Department of Land and Natural Resources
			Forestry and Wildlife Division
			Historical Preservation Division
			Department of Business, Economic Development and Tourism
			State Land Use Commission
			Department of Transportation
			Highways Division
		3.	County Administration/Agencies
			Department of Planning
			Department of Water Supply
		4.	Private
			The Nature Conservancy of Hawaii
в	•	<u>Parties</u>	s Consulted During the Preparation of the Final EA
		consui	2 lists the nineteen (19) agencies, organization, and other interested parties ted in the review of the Draft EA. A total of six (6) comment letters were ed as of April 8, 1999 (the public comment particular is in the second

received as of April 8, 1999 (the public comment period ended on April 7, 1999). The written comments and responses are presented in Appendix B. Availability of the Draft EA was published in the March 8, 1999 edition of the *Environmental Notice* by the Office of Environmental Quality Control.

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Table 2
List of Agencies and Organization Consulted

	Agency or Organization Consulted	Date	
 		Comments Received	Response
Fee	deral Agencies		
1	Department of the Army, U.S. Army Engineer District	March 15, 1999	April 7, 199
2	U.S. Department of the Interior, Fish and Wildlife Service	None	Not Req'd
Sta	te Administration/Agencies	<u></u>	
3	Senator Lorraine R. Inouye	None	Not Req'd
4	Representative Paul Whalen	None	Not Req'd
5	Office of Environmental Quality Control	None	Not Req'd
6	Department of Business, Economic Development and Tourism (DBEDT), Energy Resource and Technology Division	None	Not Req'd
7	DBEDT, Land Use Commission	March 5, 1999	April 7, 1999
8	Department of Health	None	Not Req'd
9	Department of Land and Natural Resources, Division of Forestry and Wildlife	None	Not Req'd
10	Department of Land and Natural Resources, State Historic Preservation Division	March 17, 1999	May 5, 1999
11	Office of Hawaiian Affairs	None	Not Req'd
Cour	ty Administration/Agencies	I <u></u>	
2	Council Member J. Curtis Tyler	None	Not Req'd
3	Department of Parks and Recreation	None	Not Reg'd
4	Department of Public Works	None	Not Req'd
5	Department of Water Supply	March 8, 1999	April 7, 1999
6	Planning Department	March 3, 1999	April 7, 1999
rivat	e and Community Organization	<u> </u>	
7	Kona Heavens Association	March 8, 1999	May 5, 1999
8	Kona-Kohala Chamber of Commerce	None	Not Req'd
ibrar	у	<u>. 1</u>	<u> </u>
)	Kailua Kona Public Library	None	Not Req'd

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### VIII. <u>DETERMINATION</u>

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After completing a final environmental assessment of the potential environmental impacts of the proposed project, it is believed that an Environmental Impact Statement is not required. Accordingly, this document has been submitted with a Finding of No Significant Impact (FONSI) determination.

# IX. <u>FINDINGS AND REASONS SUPPORTING THE ANTICIPATED</u> <u>DETERMINATION</u>

A. <u>Involves an irrevocable commitment to loss or destruction of any natural or</u> <u>cultural resources;</u>

The proposed project will not cause any loss or destruction of a natural or cultural resource. The project will be constructed in areas that have been previously disturbed. If any archaeological resources are uncovered during the construction of the project, the contractor will be prepared to act in accordance with the requirements of the State Hawaii, Department of Land and Natural Resources.

## B. <u>Curtail the range of beneficial uses of the environment;</u>

The proposed transmission line will be buried and the reservoir modifications will be done within the existing reservoir sites. Except for the excavation along Hina Lani Street for the pipeline installation and a small area of vacant land for PRV Station No. 2, no other disturbances to the natural environment is anticipated.

C. <u>Conflict with the State's long-term environmental policies or goals and guidelines</u> as expressed in Chapter 344, Hawaii Revised Statutes, and revisions thereof and amendments thereto, court decisions or executive orders;

The proposed project is in accordance with the guidelines set forth in the State Environmental Policy Chapter 344, Hawaii Revised Statutes.

	ronmental Assessment for the Hina Lani Transmission Line and Reservoir Modifications
D	Substantially affects the economic or social welfare of the community or state;
	The proposed project will permit water from the high-level sources to flow make to the Keahole area reducing the demand on the overtaxed Kahaluu Shaft source. The project will be a positive impact to the Kona area by improving the water quality and the transmission system.
E.	Substantially affect public health;
	The proposed project will not substantially affect public health in a negative way
F.	Involves a substantial secondary impact, such as population changes or effects on public facilities;
	The proposed project will support existing and future populations as dictated by existing land use patterns. This project alone will not generate new population growth, but, will provide the needed transmission for water to flow from the high-level sources down to the Keahole area.
G.	Involves substantial degradation of environmental quality;
	As evaluated in this environmental assessment, the project will have minimum impact to the surrounding environment.
Н.	Is individually limited but cumulatively has considerable effect upon the environment, or involve a commitment for larger action;
	The proposed project does not have significant impacts or effects upon the environment nor involves a commitment for larger actions.
I.	Substantially affects a rare, threatened, or endangered species or its habitat;
	The proposed project will not adversely affect any endangered species or habitat near the project site. Except for the small vacant area PRV Station No. 2 will use, most of the project will be constructed along Hina Lani Street and within the existing reservoir sites, which are areas that have been previously disturbed.

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Final Enviror	amental Assessment for the Hina Lani Transmission Line and Reservoir Modifications
J.	Detrimentally affects air or water quality or ambient noise levels;
	Impacts to air and water quality, and noise levels resulting from the construction activities, will be mitigated by having the contractor conduct his operations in accordance with applicable rules and regulations of the Department of Health.
K.	Affects 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, geologically hazardous land, estuary, freshwater, or coastal waters;
	The proposed project will not detrimentally affect any environmentally sensitive areas.
L.	Substantially affects scenic vistas and view planes identified in county or state plans or studies;
	The proposed project will not adversely affect scenic vistas and view planes. The transmission line will be buried and work at the existing reservoir sites involves installation of a valve, which will be located close to the ground.
M.	Requires substantial energy consumption;
	Energy consumption will significantly decrease with the proposed project. It will reduce the electricity demand by utilizing a gravity system, rather than a pumping system.
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## **REFERENCES**

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- 1. County of Hawaii, <u>Keahole to Kailua Development Plan</u>, 1991.
- Department of Geography, University of Hawaii, <u>Atlas of Hawaii, Second Edition</u>, University of Hawaii Press, 1983.
- Federal Emergency Management Agency, <u>Flood Insurance Rate Maps</u>, Hawaii County, June 2, 1995.
- 4. Nature Conservancy of Hawaii, Hawaii Natural Heritage Program Database, USGS quadrangle maps depicting the location of the species and Heritage database records printout
- 5. State of Hawaii, Department of Business and Economic Development, <u>The State of</u> <u>Hawaii Data Book 1996</u>.
- State of Hawaii, Department of Land and Natural Resources, <u>North Kona Water Master</u> <u>Plan</u>, June 1995.
- U.S. Department of Agriculture, <u>Soil Conservation Service</u>, <u>University of Hawaii</u> Agricultural Experiment Station, Soil Survey of Islands of Kauai, Oahu, Maui, and Molokai, and Lanai, State of Hawaii</u>, August 1972.
- 8. Wilson Okamoto & Associates, Inc., <u>Environmental Assessment for Kaloko Water</u> Systems Improvements, Kaloko, North Kona, Hawaii, June 1990.

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APPENDIX A Pre-assessment Correspondences Received

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## DEPAK MENT OF LAND & NATURAL RE\_ JURCES Division of Forestry and Wildlife Hawaii District

September 14, 1998

### MEMORANDUM:

TO:	Dean Uchida, Land Administrator	5/2	5	
FROM:	Michael G. Buck, Administrator			
SUBJECT:	Draft Environmental Assessment Pre-Assessment Consult Hina Lani Water Transmission Line & Reservoir Modifica	ation for		
This memora	idum responda to usual a construction	2.20		<u>п</u> п.

This memorandum responds to your request for a pre-assessment consultation for the proposed Hina Lani Water transmission line project in North Kona, Hawaii. You requested information about the presence of endangered plants or animals that may be impacted by the project.

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According to the Nature Conservancy data base, there are five different endangered species located on either side of Hina Lani St. above 100 feet elevation. Additionally, there is one candidate endangered species in this area and one species of concern.

Endangered plant species along Hina Lani St .:

Caesalpinia kavaiensis	-	uhiuhi
Pleomele hawaiiensis	-	halapepe
Mariscus fauriei	-	(no common name)
Neraudia ovata	-	ma'aloa
Nothocestrum brevislorum	-	'aiea
-		

Candidate endangered plant species along Hina Lani St .:

Bidens micrantha ssp. Ctenophylla - ko'oko'olau

Species of concern along Hina Lani St.:

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Fimbristylis hawaiiensis - no common name

We recommend that you consult with a Botanist who is familiar with the area to determine the exact location of any endangered plants.

We have no records of any endangered animal sightings at the project sites. However, the Hawaiian bat (*Lasiurus cinereus semotus*) may be present in this area. Your activities are not expected to impact this species

Thank you for the opportunity to comment on the pre-assessment consultation.

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# United States Department of the Interior

FISH AND WILDLIFE SERVICE Pacific Islands Ecoregion 300 Ala Moana Boulevard, Room 3108 Box 50088 Honolulu, Hawaii 96850

In Reply Refer To: MMB

Mr. Michael D. Wilson Chairperson Department of Land and Natural Resources P.O. Box 621 Honolulu, Hawaii 96809

Re: Information on federally listed, proposed, or candidate endangered or threatened species within the vicinity of the proposed Hina Lani Water Transmission Line and Reservoir Modifications, North Kona, Hawaii

#### Dear Mr. Wilson:

- · .

The U.S. Fish and Wildlife Service (Service) has received your request dated September 10, 1998, for information on the presence of listed, proposed, or candidate endangered or threatened species near the site of the proposed Hina Lani Water Transmission Line and Reservoir Modifications, North Kona, Hawaii. The proposed project involves construction of a 3,200 lineal feet, 24-inch transmission line along Hina Lani Street and retrofitting the valving systems at two existing reservoirs with spillways and a bypass at the lowest reservoir with a spillway. The Service offers the following comments for your consideration.

The Service has reviewed the map of the proposed project site that was provided with your request and pertinent information in our files, including maps and records prepared by the Hawaii Heritage Program of The Nature Conservancy and surveys of the area previously conducted by our staff for the landowner. Several protected species have been documented within the vicinity of the proposed project site, including the following federally endangered plants: *Mariscus fauriei*, *Neraudia ovata*, *Nothocestrum breviflorum*, and *Pleomele hawaiiensis*. All of these species were observed within the 'a'a lava flow through which Hina Lani Street passes within the past year. One federally endangered mammal, the Hawaiian hoary bat (*Lasiurus cinereus semotus*), has also been observed in the vicinity as recently as 1990. One species of plant that is a candidate for listing as endangered, *Bidens micrantha* ssp. *ctenophylla*, has been documented within the vicinity of the site within the past year. Another species, *Capparis sandwichiana*, is a species of concern to the Service that is also found throughout this area.

The Service recommends that a survey be conducted by a botanist along with someone from the engineering branch of Department of Land and Natural Resources, to identify the extent of the

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project and ensure that the proposed project will not impact these species. The Service would like to offer the assistance of one of our staff biologists in conducting these surveys, if needed.

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If you have any questions regarding these comments, please contact our Assistant Field Supervisor for Endangered Species Karen Rosa or Fish and Wildlife Biologist Marie Bruegmann by telephone at (808) 541-3441 or by facsimile message at (808) 541-3470.

Sincerely,

Buten a Mafield, acting

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L. Robert P. Smith C. Ecoregion Manager

morie Bruegmann The Nature Conservance NELLEIVED Hototula, Hawal's 968174 of Hawai Phone (808) 537-4504 Facaimile (808) 545-2019 ]; (\_)Oct\$60+9,,1988; 59 Valerie Suzuki State of Hawaii, Department of Land and Natural Resources Valerie Suzuki Land Division, Engineering Branch Board of Trustees P.O. Box 373 ichey H. Watanabe Honolulu, Hawaii 96809 LIND LEVELOPHENT -Chairman 12 S. Bannani Apoliona Dear Ms. Suzuki, George R. Artyoshi Enclosed is the rare species information you requested from the Hawaii Natural Heritage Program Database. Included are photocopies of our USGS quadrangle maps depicting the locations of the species and Peter D. Baltivint -1-13 Heritage database records. I've included information on both plant and animal species. The information is based by the USGS quad map and dot number. The data are as follows: Meredin J. Ching Dot Number: 131 Kailua Quad. Buteo solitarius, Hawailan Hawk. Listed Endangered. Though not recorded in your project area, it is in the vicinity and may be present. Dot Numbers and boundary lines: 140 Kailua Quad and 38 Keahole Point Quad Bidens micrantha sip. ctenophylla, Ko'oko'olau Hundreds of individuals scattered throughout Kaloko ahupua'a Currently this taxa has a Candidate Federal Status, but it has been identified as to be Listed Endangered within a year or so. Our map shows the population boundary size. A thorough biological survey is needed Dot Numbers and boundary lines: 141 Kailua Quad and 39 Keahole Point Quad Pleomele bawailensis, Halapepe Listed Endangered. Occasional throughout the Kaloko ahupua'a. Our map shows the population boundary size. A thorough biological survey is needed to determine the location of each individual. Dot Number 150 Kailua Quad Lasiarus cinereus semotus Hawaiian Hoary Bat, 'Opca'apc'a Listed Endangered. Along Palani Road. Though not recorded in your project area, it is in the vicinity and Dot Number: 5 Keahole Point Quad. Caesalpinia kavalensis, Uhiuhi Listed Endangered. Solitary Tree in 'a'a field. Dot Number 40 Keahole Point Quad (these 4 plants recorded in same location) Species of Concern. 50 plants in 50 meter area. Mariscus fauriei Listed Endangered, 5 plants. Neraudia ovata, Ma'aloa Listed Endangered. 5-7 plants. Nothocestrum breviflorum, 'Aica Listed Endangered, 2 trees, The Kaloko-Honokohau Historical National Park is below your proposed project area. There are many rare / endangered species and ecosytems there. You may want to address those also. If you need further Thank you, Roin

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Database Coordinator Hawaii Natural Heritage Program

January 8, 1999 MEMORANDUM TO: Dean Uchida, Administrator Land Division FROM: Don Hibbard, Administrator State Historic Preservation Division SUBJECT: Draft Environmental Pre-Assessment Consultation for Hina Lant Street Transmission Line and Reservoir Modifications Kaloko, North Kona, Hawati Island This is in reply to your memo of August 20, 1998 with a request for our assistance in determining if any historic sites might be impacted by the proposed project. We do not know what happened to the original request, which was faked to us again by Valerie Suzuki on January 4, 1999. It is our understanding that the proposed project are will be confined to the existing road right-of-way and reservoir sites. Since both of these have been previously disturbed, it is unlikely that significant historic sites would still exist. We thus believe that the proposed project on significant historic sites. PM:amk		AYETANG YAWAB	STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOUR HISTORIC PRESERVATION DAVISION Katuchilterve Building, Room 555 601 Karvalia Bailoverd Karvalia Bailoverd Karvalia Bailoverd	ACUATC MEDOLICES BOARD OF LAND AND NATURAL RESOURCES DEPUTIES BELETIT COLONA-AGARAN THIOTHY & JEMMS ACUATC MEDOLINCES BOATING AND OCEAN REPRESTION CONSERVATION AND REPORTATION CONSERVATION AND REPORT FORESTRY AND WILDLIFS MEETONIC PRESERVATION LAND STATE PARKS WATER RESOURCE MANAGEMENT
TO:       Dean Uchida, Administrator         Land Division         FROM:       Don Hibbard, Administrator         State Historic Preservation Division         SubJECT:       Draft Environmentäl Pre-Assessment Consultation for Hina Lani         Street Transmission Line and Reservoir Modifications         Kaloko, North Kona; Hawati Island         This is in reply to your memo of August 20, 1998 with a request for our assistance in determining if airy historic sites might be impacted by the proposed project. We do not know what happened to the original request, which was faked to us again by Valerie Suzuki on January 4, 1999, it is our understanding that the proposed project area will be confined to the existing road right-of-way and reservoir/aites. Since both of these have been previously disturbed, it is unlikely that significant historic sites would still exist. We thus believe that the proposed project will have 'no effect' on significant historic sites.         PM:amk       This is in a significant historie sites model by the proposed project area will be confined to the existing road right-of-way and reservoir/aites. Since both of these have been previously disturbed, it is unlikely that significant historic sites would still exist.         PM:amk       To:	-		January 8, 1999	
<ul> <li>Land Division</li> <li>FROM: Dan Hibbard, Administrator.</li> <li>State Historic Preservation Division</li> <li>SUBJECT: Draft Environmental Pre-Assessment Consultation for Hina Lani-Street Transmission Line and Reservoir Modifications Kaloko, North Kona, Hawati Island</li> <li>This is in reply to your memo of August 20, 1998 with a request for our assistance in determining if any historic sites might be impacted by the proposed project. We do not know what hapbened to the original request, which was faked to us again by Valerie Suzuki on January 4, 1999. It is our understanding that the proposed project area will be confined to the existing read right-of-way and reservoir listoric sites would still exist. We thus believe that the proposed project will have "no effect" on significant historic sites.</li> <li>PM:amk</li> </ul>		MEMORANDU	 <u>M</u>  -	
State Historic Preservation Division SUBJECT: Draft Environmental Pre-Assessment Consultation for Hina Lani Street Transmission Line and Reservoir Modifications Kaloko, North Kona, Hawaii Island This is in reply to your memo of August 20, 1998 with a request for our assistance in determining if any historic sites might be impacted by the proposed project. We do not know what happened to the original request, which was faked to us again by Valerie Suzuki on January 4, 1999. It is our understanding that the proposed project area will be confined to the existing road right-of-way and reservoir leites. Since both of these have been previously disturbed, it is unlikely that significant historic sites would still exist. We thus believe that the proposed project will have "no effect" on significant historic sites. PM:amk				
Street Transmission Line and Reservoir Modifications Kaloko, North Kona, Hawali Island This is in reply to your memo of August 20, 1998 with a request for our assistance in determining if any historic sites might be impacted by the proposed project. We do not know what happened to the original request, which was faxed to us again by Valerie Suzuki on January 4, 1999. It is our understanding that the proposed project area will be confined to the existing road right-of-way and reservoir sites. Since both of these have been previously disturbed, it is unlikely that significant historic sites would still exist. We thus believe that the proposed project will have "no effect" on significant historic sites. PM:amk	-	FROM: D	on Hibbard, Administrator	
determining if any historic sites might be impacted by the proposed project. We do not know what happened to the original request, which was faxed to us again by Valerie Suzuki on January 4, 1999. It is our understanding that the proposed project area will be confined to the existing road right-of-way and reservoir aites. Since both of these have been previously disturbed, it is unlikely that significant historic sites would still exist. We thus believe that the proposed project will have historic sites. PM:amk		Ś	treet Transmission Line and Reservoir N	odifications
		determining if a know what hap Suzuki on Janu be confined to have been pre- exist. We thus	by historic sites might be impacted by the pened to the original request, which was fa any 4, 1999. It is our understanding that the the existing road right-of-way and reservoir light disturbed, it is unlikely that significa	proposed project. We do not ked to us again by Valerie s proposed project area will aites. Since both of these nt historic sites would still
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## APPENDIX B

# Comments from and Replies to Agencies and Organizations Consulted During the Draft Environmental Assessment Process

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			istion Line and d 30	g that the flood the Army permit is	a et 587-0260.	
	STATE OF HAWAR DEPARTMENT OF LAND AND MATURAL RESOURCES LAND AND MATURAL RESOURCES ENCOME DEMONSION POINT NUMBER AND ARX -7 1933	Mr. Paul Mizue, P.E. Chief, Civil Worts Branch. Department of the Army U.S. Army Engineer District, Honolulu Fort Shafter, Hawaii 96858-5440	Dear Mr. Mizue: Draft Eavironmental Assessment (DEA) for the Hina Lani Transmitsion Line and Reservoir Modifications, TMR6: 7-3-47, 7-3-09: 19, 29, and 30 North Kouz, Hawaii	Thank you for your comments dated March 15, 1999, on the DEA confirming that the flood hazzed information provided in the DEA is correct and that a Department of the Army permit is not required for the project.	If you have any questions, please call Mr. Himm Young of the Design Section at \$\$7-0260. Sincerely,	Cullus M. Honde- ANDREW M. MONDEN Chief Engineer VSAA
DEPARTMENT OF THE ARMY U. & AMAY DEPARTMENT OF THE ARMY U. & AMAY DESTRUT, HOMOLUU FORT RUNFTER, HAWLI RELEASE Harch 15, 1999 J. F., [5 A 9: 38	Civil Works Branch 	State of Hawais Department of Land and Natural Resources Land Division PO Bcx 373 Honolulu, Hawaii 96809 Dear Mr. Monden:	Thank you for the opportunity to review and comment on the Draft Environmental Assessment (DEA) for the Hina Lani Transmission Line and Reservoir Modifications, North Kona, Hawaii (THKs 7-3-47 and 7-3- 0: 19, 29, and 30). The following comments are provided in accordance with U.S. Army Corps of Engineers, Honolulu District authorities to provide	flood hazard information and to issue Department of the Army (DA) permits. a. Based on the information provided, a DA permit will not be required for the project.	b. The flood hazard information provided on page 10 of the DEA is correct.	Sincerely, MM Paul Hizue, P.E. Chief, Civil Mork Branch

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Raw J. C. Krither         Raw J. Krither </th <th>TO: Eather Udda, Executive Office DBEDT - Laod Use Commission FROM: Andrew Monden, Chief Engineer Cullen, Mark- SUBJECT: Dard Environmental Assessment (DEA) for the Him Lun Transmission Line Rescription Modifications, TMRC: 7:3-47, 7:3-09: 19, 29, and 30, North Kon, Russini: Control March 5, 1999 on the DEA confirming that the presion fullen the State Land Use Agricultural District and that it was incorrectly referred to in the DEA ordition No. 3 of the State Land Use Commission 's approval of a residential audivision to the "Agriculture" District. The correction will be made in the final environmental assessment. Condition No. 3 of the State Land Use Commission's approval of a residential audivision to the state Land Use Commission's approval of a residential audivision proposed by Y-O Limited Partmenkip will be coordinated in the design phase. If you have any questions, phase call Mr. Hiran Young of the Design Socion at \$\$1-0200.</th> <th></th>	TO: Eather Udda, Executive Office DBEDT - Laod Use Commission FROM: Andrew Monden, Chief Engineer Cullen, Mark- SUBJECT: Dard Environmental Assessment (DEA) for the Him Lun Transmission Line Rescription Modifications, TMRC: 7:3-47, 7:3-09: 19, 29, and 30, North Kon, Russini: Control March 5, 1999 on the DEA confirming that the presion fullen the State Land Use Agricultural District and that it was incorrectly referred to in the DEA ordition No. 3 of the State Land Use Commission 's approval of a residential audivision to the "Agriculture" District. The correction will be made in the final environmental assessment. Condition No. 3 of the State Land Use Commission's approval of a residential audivision to the state Land Use Commission's approval of a residential audivision proposed by Y-O Limited Partmenkip will be coordinated in the design phase. If you have any questions, phase call Mr. Hiran Young of the Design Socion at \$\$1-0200.	
Mr Andrew Kondan     Mr Andrew Kondan       Mr Andrew Kondan     Mr 199	<ul> <li>Paperian of induction and Division of induction of induct</li></ul>	

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ELEMENT OF LAND ELEMENT OF LAND STATE OF HAWAI STATE OF HAWAI REPARTMENT OF LAND AND INFORMED UND DATE OF HAWAI REPARTMENT OF LAND AND INFORMED MR - T 100	Mr. Milton Pavao, Managet Department of Water Supply Coursty of Hawaii 25 Aupuni Street, Room 103 Hilo, Hawaii 96720 Dear Mr. Pavao:	Draft Eavironmeatal Assessment (DEA) for the Hina Lani Transmission Line and Reserveir Modifications, TMK: 7-3-47, 7-3-99: 19, 29, and 30 North Kosa, Hawaii Thank you for your letter of March 8, 1999 regarding the DEA. Your comments noted in the DEA will be included in the final environmental assessment.	If you have any questions, please call Mr. Hiram Young of the Design Section in Honolulu at (2003) 587-0260. Sincerely. Cullun M. Monh- ANDREW M. MONDEN Chief Engineer	Asta
Arch 8. 1999 Harch 8. 1999	Mr. Andrew M. Monden, Chief Engineer State of Hawaii Department of Land and Natural Resources Land Division Engineering Branch P.O. Box 373 Honolulu, HI 96809	DRAFT ENVIRONMENTAL ASSESSMENT (EA) HIMA LANI TRANSMISSION LINE AND RESERVOIR HODIFICATIONS NORTH KONA, HAWAII Enclosed is the draft EA with our comments noted in red.	If you have any questions, please contact Mr. Glenn Ahuna of our Mater Resources and Planning Branch at 961-8660. MMM Hilton D. Pavao, P.E. Manager	GGA:gas Enc.

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	Ms. Virginis Goldstein, Director Planning Department County of Hawaii 25 Aupuni Street, Room 109 Hilo, Hawaii 96720 Dear Ms. Goldstein:	Draft Eavironmental Assessment (DEA) for the Hina Lani Transmission Line and Reservoir Modifications, TMK: 7-3-47, 7-3-99: 19, 29, and 30 North Kana, Hawkii	Thank you for your letter of March 3, 1999 regarding the DEA, your letter will be included in the Final Environmental Astessment.	If you have any questions, please call Mr. Hiram Young of the Design Section in Honolulu at (808) 587-0260.	 Sincerely.	aubur Mr. March	ANDREW M. MONDEN VS:ha VS:ha	
March 3, 1999	Mr. Andrew M. Mooden State Department of Land & Natural Resources Land Divition Engineering Branch P. O. Box 373 Henoriulu. HI 96809	Dear Mr. Monden:	Draft Environmental Assessment for the Huna Lani Transmission Line and Reservoir Modifications. Tax Map Key: 7:3-47, 7:3-09:19, 29, & 30, Kalalea, N., Kona, Hawaii	Thank you for your letter dated February 26, 1999, transmitting the above referenced document for our review and comment.	We have completed our review and have no objections or comments to the information contained within the draft environmental assessment, nor it's preliminary findings.	Please contact Daryn Arai if there are any questions. Sincerely.	Ara Mr Mul 9/4 Viedinia Golidstein Planning Director	DSA: Ep E-special/gau/semination

c: OEQC

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Dear Sir,

in regards to your planned Hina Lani Transmission Line. We have received a draft environmental assessment and I have talked to your engineer Owen I am writing you on behalf of the Kona Heavens Homeowners Association be covered with asphalt not grass. The existing shoulder has no irrigation so Nishioka. The project was discussed at our annual meeting. We would like to request that when the shoulder is repaired after the line is installed that it the grass is usually brown. The base material for the grass is mostly gravel, roadway. As well this eroded material fills our drywells regularly. We feel an asphalt cover would be the best solution. Please respond in writing. which ecodes easily and can leave dangerous ruts next to the asphalt

Thank-you for your attention

President 1999

6 Kim A. Maier

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STATE OF HAWAII DEPARTMENT OF LAND AND MATURAL RESOURCES LAND MAD MAD MATURAL RESOURCES LAND MAD MAD MAD MAD HOM - 5 1000 MAY - 5 1000

Kona Heavens Homeowners Association Kailua-Kona, Hawaii 96745 Mr. Kim A. Maier, President P.O. Box 734

Dear Mr. Maier:

Draft Eaviroumental Assessment (DEA) for the filun Lani Transmission Line and Reservoir Modifications. TMK: 7-3-47. 7-3-09: 19.29. and 30 North Kean. Hawali Thank you for your comment letter dated March 2, 1999 on the DEA, which was forwarded to us by the Department of Water Supply, County of Hawaii. We agree that the roadway shoulder should be paved, rather than grassed, after the waterline is installed. Preliminary construction cost estimates for the project show that the funding available for the project is very limited and paving the shoulders, which is more expensive than grassing, may exceed the project's construction budget. We are currently working with the Department of Water Supply to secure additional funds. However, if additional funds are not available, we will restore the shoulders back to its original condition.

If you have any questions, please call Mr. Hiram Young of the Design Section in Honolulu at (202) 587-0260.

Sincerely,

ANDREW M. MONDEN Chief Engineer aule M. Hal

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DEPARTMENT OF LAND AND NATURAL RESOURCES LAND DIVISION Engineering Branch WW -5 839	TO: Doa Hibbard, Administrator		FROM: Andrew Mondon, Chief Engineer (Undle) Monde- SUBJECT: Draft Eavironmental Assessment (DEA) for the Hina Lani Transmission	Line and Reservoir Modifications, TMK: 7-3-47, 7-3-99: 19, 29, and 30, North Kona, Hawaii	Thank you for your memo dated March 17, 1999, regarding the DEA for the subject project. Your memo will be included in the Final Environmental Assessment. If you have any questions, please call Mr. Hiram Youns of the Derion Services at \$57,0750		
Take in the second seco	F	LOG NO: 23063 V	8			1	
LE LA STATE OF HAWAII DEPARTNEHT OF LAND AND MATURAL RESOURCES DEPARTNEHT OF LAND AND MATURAL RESOURCES	March 17, 1999	WINN	Andrew Monden, Chief Engineer Land Division	Don Hibbard, Administrator State Historic Preservation Division	Draft Environmental Assessment for the Hina Lani Transmission Line and Reservoir Modifications Kaloko, North Kona, Hawaii Island, TMK: 7-3-47; 7-3-09:19, 29, and 30	We have nothing new to add to our memo of January 8, 1999 which is included in the Draft EA. In that memo we indicated our belief that the proposed project will have "no effect" on significant historic sites.	
Continued of the second of the		MEMORANDUM		FROM:	SUBJECT:	We have no Draft EA, In effect" on sig	PM:amk

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