

DEPARTMENT OF WATER

County of Kauai

"Water has no Substitute - Conserve It"

December 28, 1999

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

Dear Ms. Salmonson:

Subject: Finding of No Significant Impact (FONSI) for Ananalua Road Waterline
TMK: 5-8-06, Wainiha, Kauai, Hawaii

The Department of Water, County of Kauai has reviewed the comments received during the 30-day public comment period, which began on April 23, 1999. The agency has determined that this project will not have significant environmental effects and has issued a FONSI. Please publish this notice in the January 8, 2000 OEQC Environmental Notice. ✓

We have enclosed a completed OEQC Publication Form and four copies of the final EA. Please call Mr. Dennis Esaki of Esaki Surveying & Mapping, Inc. at 808-246-0625 if you have any questions.

Sincerely,



Ernest Y. W. Lau
Manager and Chief Engineer

Enclosure

cc: Mr. Dennis Esaki, Esaki Surveying & Mapping, Inc.

BI/san
A:\Ananalua\lbruce

166

2000-01-08-KA-~~FEA~~-

~~JAN - 6 2000~~

FILE COPY

FINAL

**ENVIRONMENTAL ASSESSMENT
AND
NEGATIVE DECLARATION**

ANANALU ROAD WATERLINE

WAINIHA, KAUAI, HAWAII

**Submitted in Accordance with
Requirements for Chapter 343, HRS and
Chapter 200 of Title II, Administrative Rules
Department of Health, State of Hawaii**

Prepared for the

**Department of Water
County of Kauai**

By

Esaki Surveying and Mapping, Inc.

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AND
FINDING OF NO SIGNIFICANT IMPACT (FONSI)

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December 1999

ENVIROMENTAL ASSESSMENT

Proposed Action: ANANALU ROAD WATERLINE

Applicant: DEPARTMENT OF WATER
COUNTY OF KAUAI

Location: WAINIHA, KAUAI, HAWAII
TMK: 5-8-06

Determination: EIS REQUIRED _____ NOT REQUIRED X

.....
Agencies and Organizations Consulted or Contacted
in Preparing This Assessment

State : OEQC
County : Planning Department
Department of Public Works
Department of Water
Others : GTE Hawaiian Tel
Kauai Electric

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Possible Permits Required

Federal : N/A
State : NPDES – Hydrotesting water
County : Public Works – Road Construction for Right-of-Way

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SECTION I

DESCRIPTION OF THE PROPOSED PROJECT

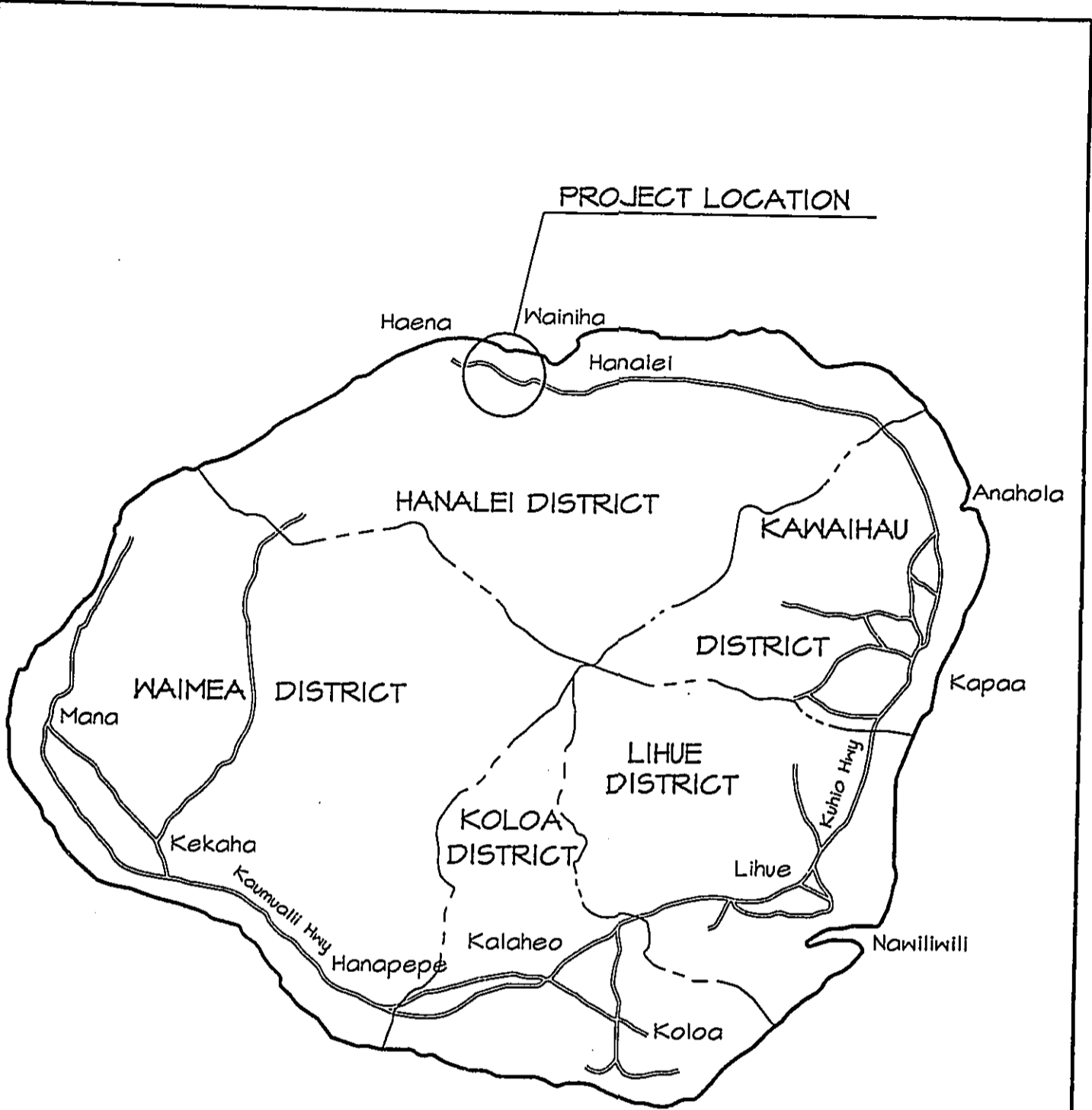
The County of Kauai, Department of Water proposes to develop a 6-inch waterline extension in Wainiha, Kauai in the State of Hawaii. The property is also identified by tax map key as (zone 4) 5-8-06.

The project is located along Ananalu Road in Wainiha approximately one half-mile mauka of the shoreline at Wainiha Bay. The remainder of Ananalu Road extends approximately 1,000 feet to Kuhio Highway and is the primary access to the project. The project is bordered by private properties in the Wainiha Hui Lands. (See Figure 2)

As shown in figure 3 the existing water meters are at the intersection of Ananalu Road and Anahulu Road. Water is transmitted through individual privately owned water lines (consumer piping) along Ananalu Road. Ananalu Road is paved for only the first 210 feet of this project site. The remainder of this Hui Road is unimproved with the centerline of the travelway not necessarily corresponding with the right of way. There are no existing provisions for fire protection along this section of Ananalu Road.

The proposed project calls for installation of 2,247 linear feet of 6" ductile iron waterline along Ananalu Road. In conjunction with the proposed waterline, fire hydrants and individual water meters will be provided at the respective lot frontage.

The total estimated development cost is approximately \$190,000. Funding will be by the Department of Water. Construction is projected to start March 2000 and should be completed July 2000.



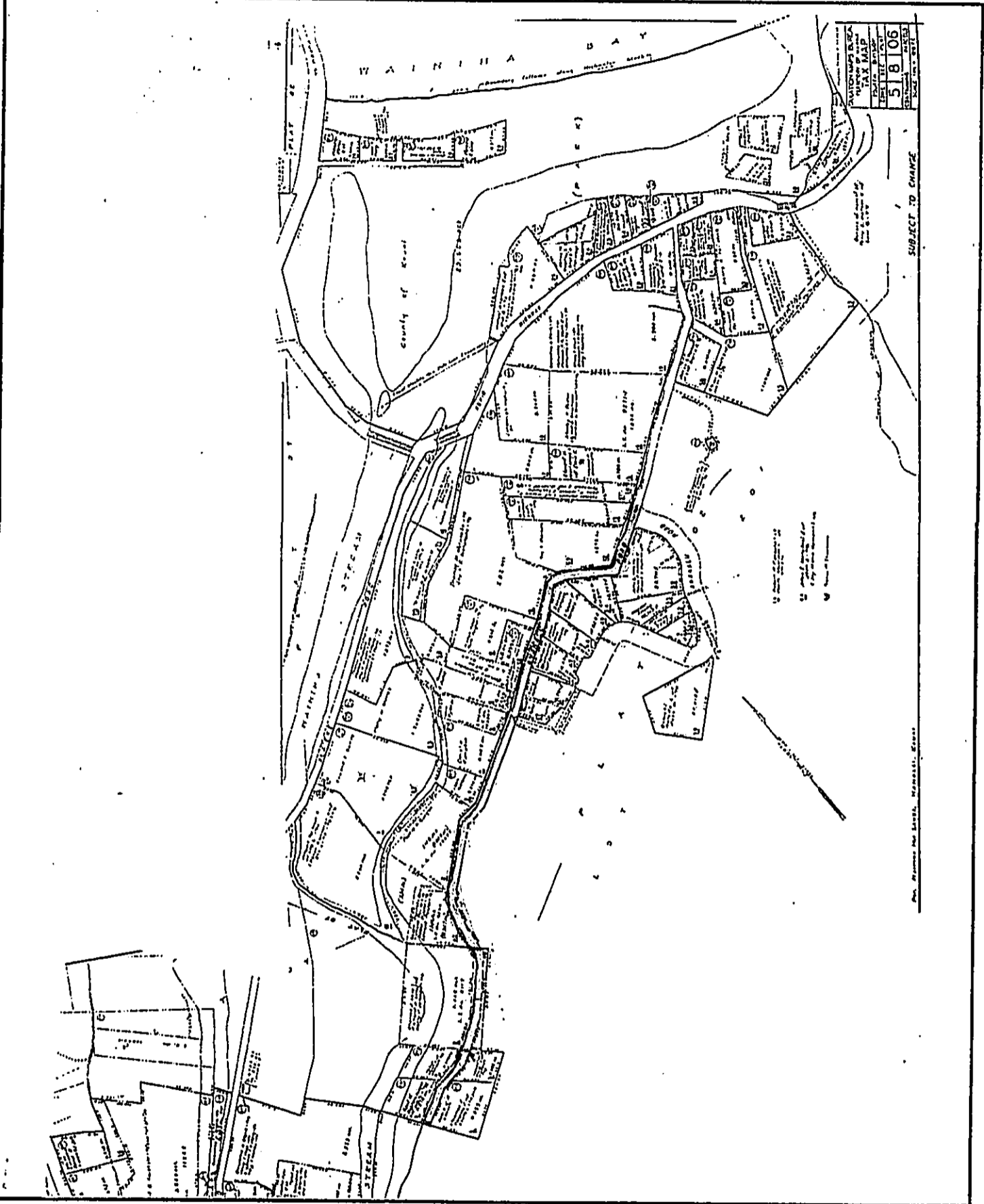
ISLAND OF KAUAI

ESAKI SURVEYING & MAPPING, INC.

Engineers, Land Surveyors & Planners
 1610 Haleukona Street
 Lihue, Kauai, Hawaii 96766

**FIGURE 1
 ISLAND OF KAUAI**

ANANALU ROAD WATERLINE JOB NO. 97-12
 WAINIHA, KAUAI, HAWAII

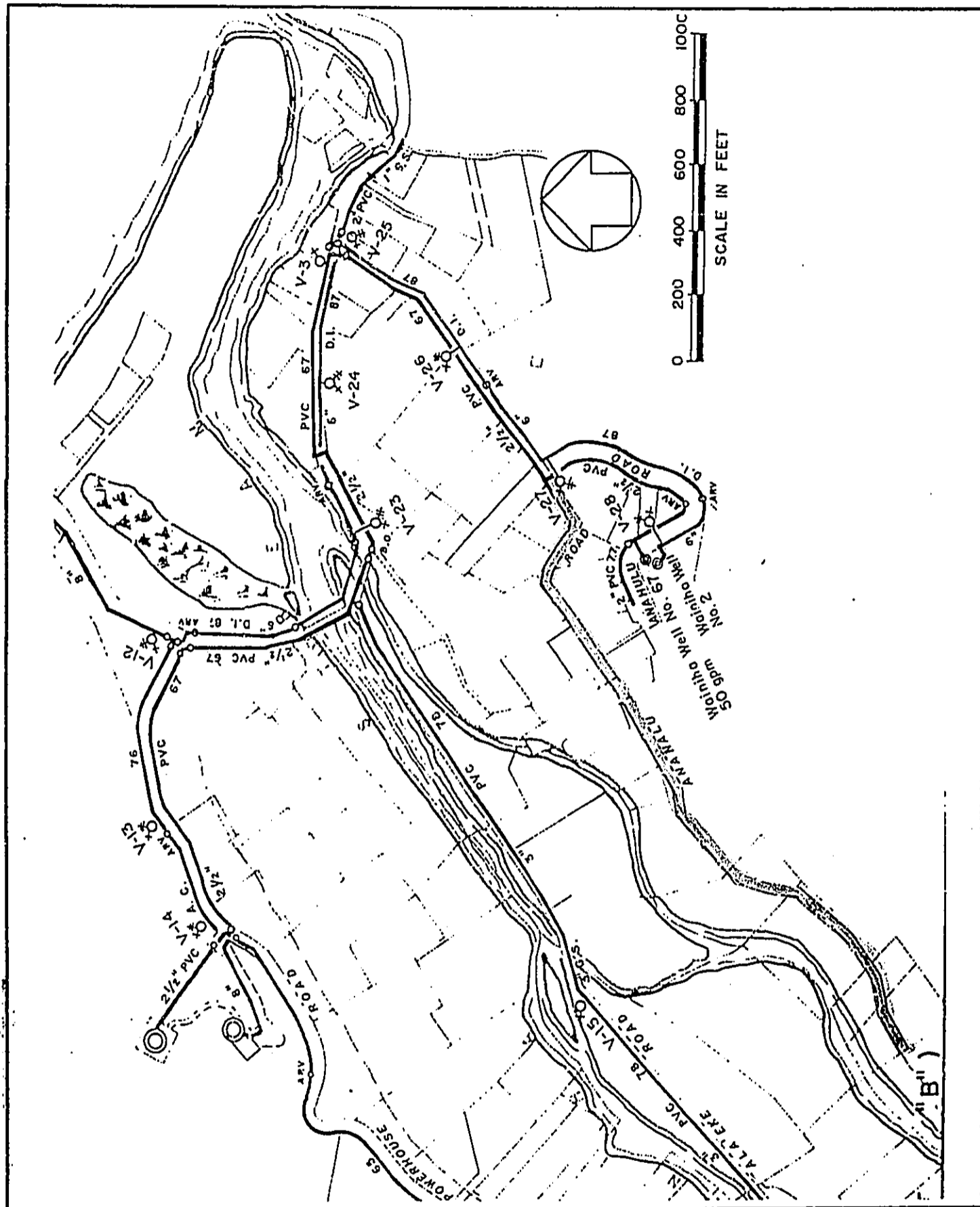


ESAKI SURVEYING & MAPPING, INC.

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 1610 Haleukana Street
 Lihua, Kauai, Hawaii 96766

**FIGURE 2
 LOCATION MAP**

ANANALU ROAD WATERLINE JOB NO. 97-12
 WAINIHA, KAUAI, HAWAII



ESAKI SURVEYING & MAPPING, INC.

Engineers, Land Surveyors & Planners
 1610 Haleukona Street
 Lihua, Kauai, Hawaii 96766

FIGURE 3
WATER FACILITY MAP
 ANANALU ROAD WATERLINE JOB NO. 97-12
 MAINIHA, KAUAI, HAWAII

SECTION II

DESCRIPTION OF THE AFFECTED ENVIRONMENT AND POTENTIAL ENVIRONMENT IMPACTS

A. USES

Existing Conditions: Ananalu Road is a dead end road with paved surface for approximately 210 linear feet of this project site. The remaining 1,840 linear feet is unimproved. There are 19 lots and 9 existing homes with water meters. The water meters are stacked at the intersection of Ananalu and Anahulu Roads. The connections to the homes are through private waterlines along Ananalu Road, the farthest being approximately 2,050 feet. The locations of these lines are not clearly documented and individual repairs are done along the public roadway.

Proposed Actions: See Section 1, Description of the proposed project.

Potential Impacts and Mitigative Measures: New service or repair requires excavating along the roadway. Additional problem is identifying the location of the existing consumer piping.

B. CLIMATE

Existing Conditions: Annual rainfall amounts to 33.87 inches. Three-fourths of it occurs from October through March. Temperature averages 70 degrees Fahrenheit.

Potential Impacts and Mitigative Measures: The project will not affect macro or micro weather conditions.

C. TOPOGRAPHY AND SOILS

Existing Conditions: Ground elevation from a high 32 feet to a low of 14 feet above mean sea level. Cross slope is level. Permeability is moderate. Runoff is slow and the erosion hazard is no more than slight.

Potential Impacts and Mitigative Measures: Impacts occurring on the physical terrain from development of the project site are expected to be minimal. Since the site is relatively flat, minimum grading will be required. To minimize soil erosion during the construction process, erosion control measures will be designed and implemented in accordance with applicable governmental regulations.

D. SURFACE WATER AND DRAINAGE

Existing Conditions: The property is not in an identified flood area and is designated as "Zone X and VE 18" on Kauai County's Flood Insurance Rate Map dated March 4, 1987. Zone X is defined as "Areas determined to be outside 500-year flood plain." "VE 18" is defined as Special Flood Areas inundated by 100-year flood with a base flood elevation of 18 feet above mean sea level.

Proposed Actions: There will be no action that will affect the base flood elevation.

Potential Impacts and Mitigative Measures: No direct impacts on drainage should occur.

E. FLORA AND FAUNA

Existing Conditions: The project site is an existing roadway devoid of any flora. There are no rare, threatened or endangered vertebrate animal species known to exist on the project site.

Proposed Actions: Trenching and backfilling along an existing roadway to install a pipeline.

Potential Impacts: Adverse impacts are not anticipated. The proposed project is not expected to have a significant impact on flora as the site consists of an existing roadway.

F. HISTORIC SITES

Existing Conditions: The subject site was previously excavated and a roadway constructed.

Proposed Action: Re-excavation of portion of roadway to install a pipeline.

Potential Impacts: Should subsurface features or burials be unearthed, work in the immediate area shall cease and professional archaeologists summoned to investigate the find. Applicant also will notify the County of Kauai Planning Department and the State Historic Preservation Officer. Disinterment of gravesites shall comply with Chapter 6E H.R.S.

G. LAND USE CONTROLS

Existing Conditions: The property is classified as Rural by the State Land Use Commission, and has a County General Planned designation of Open. The

proposed project is less than fifteen (15) acres and thus is not required to apply to the Land Use Commission for land use change.

Proposed Action: The proposed use of the property will be consistent with the conditions of the surrounding area.

Potential Impacts: The proposed use should not conflict with the zoning of nearby properties.

H. AIR QUALITY

Existing Conditions: Occasional dust is generated by local traffic.

Potential Impacts and Mitigative Measures: Ambient air quality may be affected by dust raised during site preparation activities and by exhaust fumes from internal combustion engines. Fugitive dust is an inevitable consequence of soil handling/movement but can be controlled by water sprinkling or application of dust suppressants.

Combustion discharges from construction equipment and vehicles are not anticipated to significantly alter ambient air quality and can be minimized by proper operation and maintenance of all petroleum-fueled equipment. In addition, the prevailing winds can be expected to dilute and disperse exhaust emissions away from existing homes.

All activities shall comply with Air Pollution Control Regulations (Chapter 43) of the State Department of Health and all applicable County ordinances.

At completion of the project, air quality for the existing residential community will revert to pre-construction levels.

I. NOISE

Existing Conditions: The property is currently being impacted by noise mainly from local traffic.

Proposed Actions: Noise levels are expected to increase once construction starts on the property. Maximum sound level would fall in the 85-96 dB(A) range with the latter generated by earth moving and pneumatic impact equipment. Noise should be most pronounced during site work followed by reductions in frequency and duration during actual construction and post construction phases.

Potential Impacts and Mitigative Measures: The project abuts an existing residential development and it is possible that residents may be disturbed by construction noises. Although noise cannot be eliminated entirely and may be thought of as a short-term deleterious consequence, the Contractor will be required to have his equipment equipped with mufflers. The hours of operation will also be regulated.

In the long run, it is anticipated that noises emanating from the completed project would be similar to that of the adjoining residential subdivision.

J. HOUSING

Potential Impacts and Mitigative Measures: When completed, the proposed project will allow the abutting landowners to have adequate water facilities and fire protection.

K. PUBLIC UTILITIES AND SERVICES

1. Access:

Existing Conditions: Access to the project site will be from the existing Ananalulu Road. Ananalulu Road has a Right of Way of 30 feet with a paved surface that begins at Kuhio Highway. The last 1,840 feet is unimproved. There will be temporary inconvenience due to roadway excavation while installing the pipeline. This project will not have a permanent effect on the travelway access.

2. Water:

Existing Conditions:

Potential Impacts and Mitigative Measures: The estimated water demand is 4,500 gallons per day. This is based on 9 services at 500 gallons per household per day. Service laterals will be installed by excavating across Ananalulu Road. There is an off-site transmission main, up to the intersection of Ananalulu Road and Anahulu Road. County water is available at the existing source. No additional source or storage is anticipated.

3. Wastewater:

Existing Conditions: There is no existing treatment plant that services the Wainiha area. All homes are serviced by cesspools or septic tanks.

Proposed Actions: No service improvements are planned at this time.

4. Solid Waste:

Existing Conditions: Residential refuse collection services are available at the residential homes immediately adjacent to the proposed project. A truck crew is capable of servicing 600-homes per day. Collected refuse is delivered to a transfer station where the volume of the refuse is reduced by 50% from compaction. The compacted refuse is then hauled to the Kekaha landfill for disposal.

Potential Impacts and Mitigative Measures: No changes in existing service are planned for the proposed project.

5. Fire Protection:

Existing Conditions: Fire protection service for the Wainiha area is currently being provided by the Princeville Fire Station. The Kapaa and Lihue Fire Stations are available under emergency conditions. Four (4) men are assigned to the station with three (3) on duty at all times with Major fire fighting equipment. Response time to the proposed development from the station, a distance of about 6.1 miles, is estimated at 15 minutes.

Emergency medical services (to include an ambulance and emergency medical technician) are provided by the Princeville Fire Station in conjunction with a private firm, which is contracted with the State Department of Health.

6. Police Protection:

Existing Conditions: Police service in the Wainiha area is provided by the Princeville Police Station. The Princeville Police Station is located at Princeville and is approximately 6.1 miles from the proposed project site.

Proposed Actions: None

7. Public Schools:

Existing Conditions: The public schools servicing the Hanalei area are Hanalei Elementary (K-6), Kapaa Intermediate (6-8) and Kapaa High (9-12).

Proposed Action: None

8. Utilities:

Existing Conditions: Electrical power and telephone services are available from overhead distribution lines along Ananalu Road.

Proposed Actions: None.

9. VISUAL EFFECTS:

Existing Conditions: This project involves underground waterline extension. Therefore, there will be no permanent visual effect except for fire hydrants that will be visible only from the immediate vicinity due to lush vegetation on both sides of the roadway

SECTION III

ALTERNATIVES TO THE PROPOSED ACTION

No Action

A no action alternative would prevent the adjacent landowners from receiving any Fire Protection from the fire hydrants. Additionally, any new water service connection would require excavation along the public roadway or through neighboring private property to install a private consumer piping.

SECTION IV
ASSESSMENT PROCESS AND DETERMINATION OF
SIGNIFICANCE

Assessment Process

The scope of the project was discussed with the Applicant and representatives of the Department of Water. Information was collected from the State of Hawaii departments, County of Kauai agencies and offices, and utility companies. Time was spent in the field evaluating the site and observing conditions in the surrounding area.

Based on information obtained from the above references, the Environmental Assessment was prepared.

Determination of Significance and Recommendation

Chapter 200 of Title 11, Administrative Rules of the Department of Health entitled "Environmental Impact Statement Rules" established criteria for evaluating whether and action may have a significant effect on the environment. The relationship of the proposed project to these criteria are discussed below.

1. Involves an irrevocable commitment to loss or destruction of any natural or cultural resources.

None is anticipated. Roadway will be restored to original condition.
2. Curtails the range of beneficial uses of the environment.

The temporary inconvenience during construction should be offset by the provision of water and fire protection for nine (9)

households. Owing to the paucity of significant environment features and the existing residential zoning of the land the proposed development is considered an appropriate use.

3. Conflicts with the State's long-term environmental policies of goals and guidelines are expressed in Chapter 344, Hawaii Revised Statutes, and any revisions thereof and amendments thereto, court decisions or executive orders.

The project enriches the well being of the area residents with no damage to the environment.

4. Substantially affects the economic or social welfare of the community or State.

The estimated construction cost (\$190,000) will not substantially affect the economy while providing a public utility.

5. Substantially affects public health.

The proposed project will not substantially affect economic or sociological activities. It is an implementing action that provides a public utility for a number of residents along Ananalu Road. It is believed that a comfortable home instills psychological and sociological values, which collectively contributes to neighborhood stability and the community at large.

6. Involves substantial secondary impacts, such as population changes or effects on public facilities.

The number of lots and demand for public services and facilities will not be increased due to this project.

7. Involves a substantial degradation of environmental quality.

Environmental quality will remain the same.

8. Is individually limited but cumulatively has considerable effect upon the environment or involves a commitment for larger actions.

The proposed project does not involve a commitment for larger actions in the immediate area.

9. Substantially affects a rare, threatened, or endangered species (plant and animal) or its habitat.

The site is devoid of rare, threatened, or endangered species (plant and animal) or its habitat as it is along an existing roadway.

10. Detrimentially affects air or water quality or ambient noise levels.

Although fugitive dust and noises created during construction cannot be completely eliminated, such conditions can be mitigated by measures identified in this Assessment.

11. Affects on environmentally sensitive area such as a flood plain, tsunami zone, erosion-prone area, geologically hazardous land, estuary, fresh water, or coastal waters.

The waterline project is not in any such zone nor will it affect any such area.

12. Substantially affects scenic vistas and vine plants identified in County or State plans or studies
13. Requires substantial energy consumption.

The only energy consumption will be for construction equipment. After construction, water flow through the pipelines will be by gravity.

Based on the above criteria, the proposed project should not result in significant adverse environmental impacts. Potential environmental impacts are sufficiently disclosed in this Environmental Assessment and therefore it is recommended that Environmental Impact Statement is not required.

SECTION V
COMMENTS AND RESPONSES

ESAKI SURVEYING & MAPPING, INC.

SURVEYING/CIVIL ENGINEERING/PLANNING
1610 HALEUKANA STREET • LIHUE, KAUAI, HAWAII 96766 • TELEPHONE: (808) 246-0625 • FAX: 246-0229

October 28, 1999

Received
11/16/99

Dear Wainiha Resident:

Esaki Surveying and Mapping, Inc. has designed a waterline for the County of Kauai, Department of Water along Ananalua Road. A location map is enclosed.

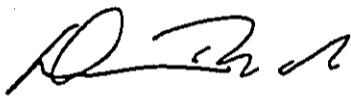
The waterline will extend 2,247 feet mauka from the intersection of Ananalua and Anahulu Roads.

The estimated construction date is March 2000.

We are preparing the Environmental Assessment and would welcome any concerns or input you have.

Should you have any questions or comments, please send them to the above address.

Very truly yours,



Dennis M. Esaki

DME:gt

Enclosure

11/15/99

Dear Persons:

My concern is what happens re: the existing water lines that we as property owners had to install ourselves?

Do they then become disconnected or what?

Sincerely,



Margaret Ferguson
P.O. Box 426 (not 425)
Lawai, HI 96765

ESAKI SURVEYING & MAPPING, INC.

SURVEYING/CIVIL ENGINEERING/PLANNING
1610 HALEUKANA STREET • LIHUE, KAUAI, HAWAII 96766 • TELEPHONE: (808) 246-0625 • FAX: 246-0229

November 22, 1999


Ms. Margaret Ferguson
P. O. Box 426
Lawai, HI 96765

RE: WATERLINE AT ANANALU ROAD

Dear Ms. Ferguson,

Thank you for your letter dated November 15, 1999. In answer to your question regarding the existing waterlines that the owners installed, they will be abandoned "in-place" as new connections and water meters are placed fronting the respective lots.

Very truly yours,



Dennis M. Esaki
PRESIDENT
Esaki Surveying and Mapping, Inc.

ESAKI SURVEYING & MAPPING, INC.

SURVEYING/CIVIL ENGINEERING/PLANNING
1610 HALEUKANA STREET • LIHUE, KAUAI, HAWAII 96766 • TELEPHONE: (808) 246-0625 • FAX: 246-0229

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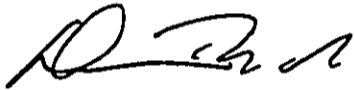
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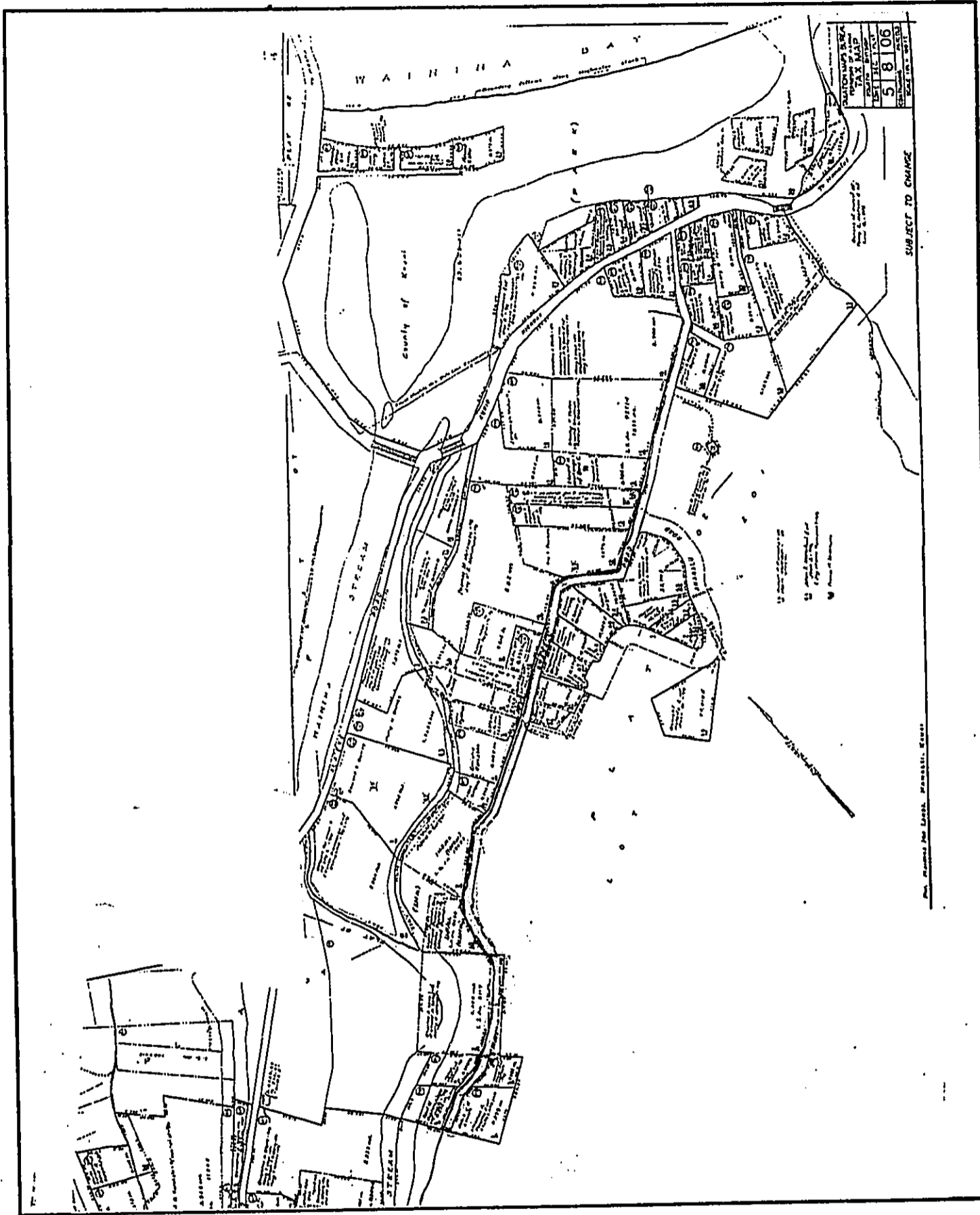
Very truly yours,



Dennis M. Esaki

DME:gt

Enclosure



SUBJECT TO CHANGE

Pub. Drawing No. 58106, Wainina, Kent



Groups and Individuals Affected by the Proposed Project

TMK: (4) 5-8-06

<u>Parcel Numbers</u>	<u>Names and Addresses</u>
02	Neil Marshall 544 Heathcliff Drive Pacifica, CA 94044
03	Margaret Burgess 1311 E. Vanowen Avenue Orange, CA 92867
04	Carroll Sparks P. O. Box 846 Hanalei, HI 96714
05	Margaret Ferguson P. O. Box 426 Lawai, HI 96765
06	Robert Goodell P. O. Box 74 Boonville, CA 95415
07	Christie Kariakin P. O. Box 567 Hanalei, HI 96714
08	Mitchell McPeck P. O. Box 473 Hanalei, HI 96714
10	Gary Capers P. O. Box 835 Hanalei, HI 96714
12	Roy Chambers P. O. Box 1631 Hanalei, HI 96714
13	Allen Marutani 1722 Kumakani Loop Honolulu, HI 96821

Parcel Numbers

Names and Addresses

40

Henry Puulei
1254 Wamala Street
Honolulu, HI 96818

47

Peter Chamberlin
1246 Walker Avenue #308
Walnut Creek, CA 94596

48

William Provost
P. O. Box 1727
Hanalei, HI 96714

49

Glenn Harada
46-134 Aeloa Street
Kaneohe, HI 96744

50

Wayne Harada
P. O. Box 124
Hanalei, HI 96714

51

James Morris
P. O. Box 698
Anahola, HI 96703

52

First Hawaiian Bank TRS/CR
1132 Bishop Street
Honolulu, HI 96813

53

John Haumea
P. O. Box 107
Hanalei, HI 96714

54

Marsha Honnold
7634 Hollister Avenue #256
Goleta, CA 93117

55

Dexter Chung
P. O. Box 129
Hanalei, HI 96714

56

Genichi Harada
P. O. Box 415
Hanalei, HI 96714

Parcel Numbers

57

Names and Addresses

Takeshi Harada
94-443 Kahuanani Street
Waipahu, HI 96797

67

Michael Rowan
P. O. Box 1001
Hanalei, HI 96714

68

Thomas Chamberlin
P. O. Box 111
Hanalei, HI 96714

2000-01-08-KA-~~FEA~~-

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AND
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ANANALU ROAD WATERLINE

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Applicant: DEPARTMENT OF WATER
COUNTY OF KAUAI

Location: WAINIHA, KAUAI, HAWAII
TMK: 5-8-06

Determination: EIS REQUIRED _____ NOT REQUIRED X

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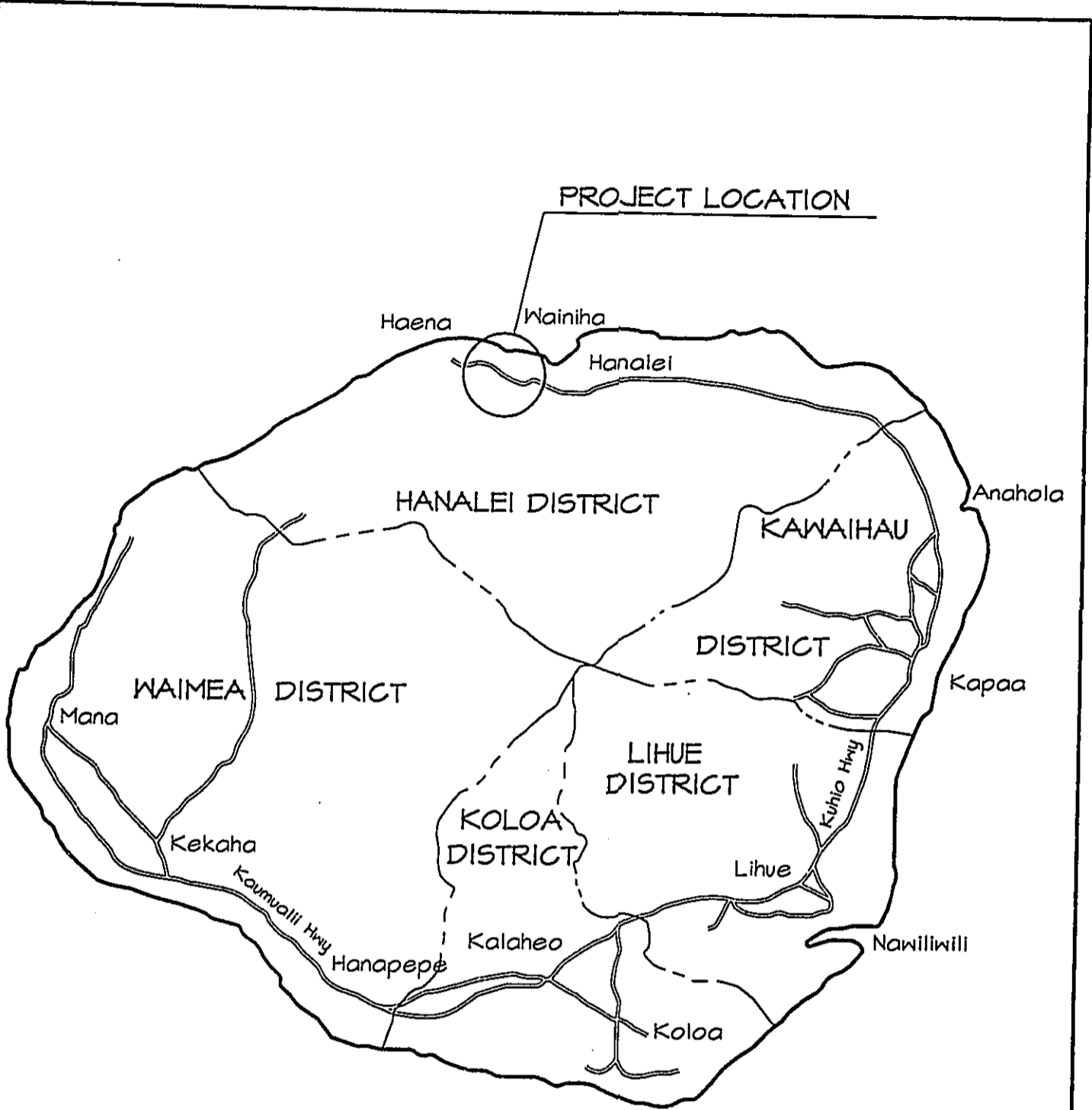
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The proposed project calls for installation of 2,247 linear feet of 6" ductile iron waterline along Ananalu Road. In conjunction with the proposed waterline, fire hydrants and individual water meters will be provided at the respective lot frontage.

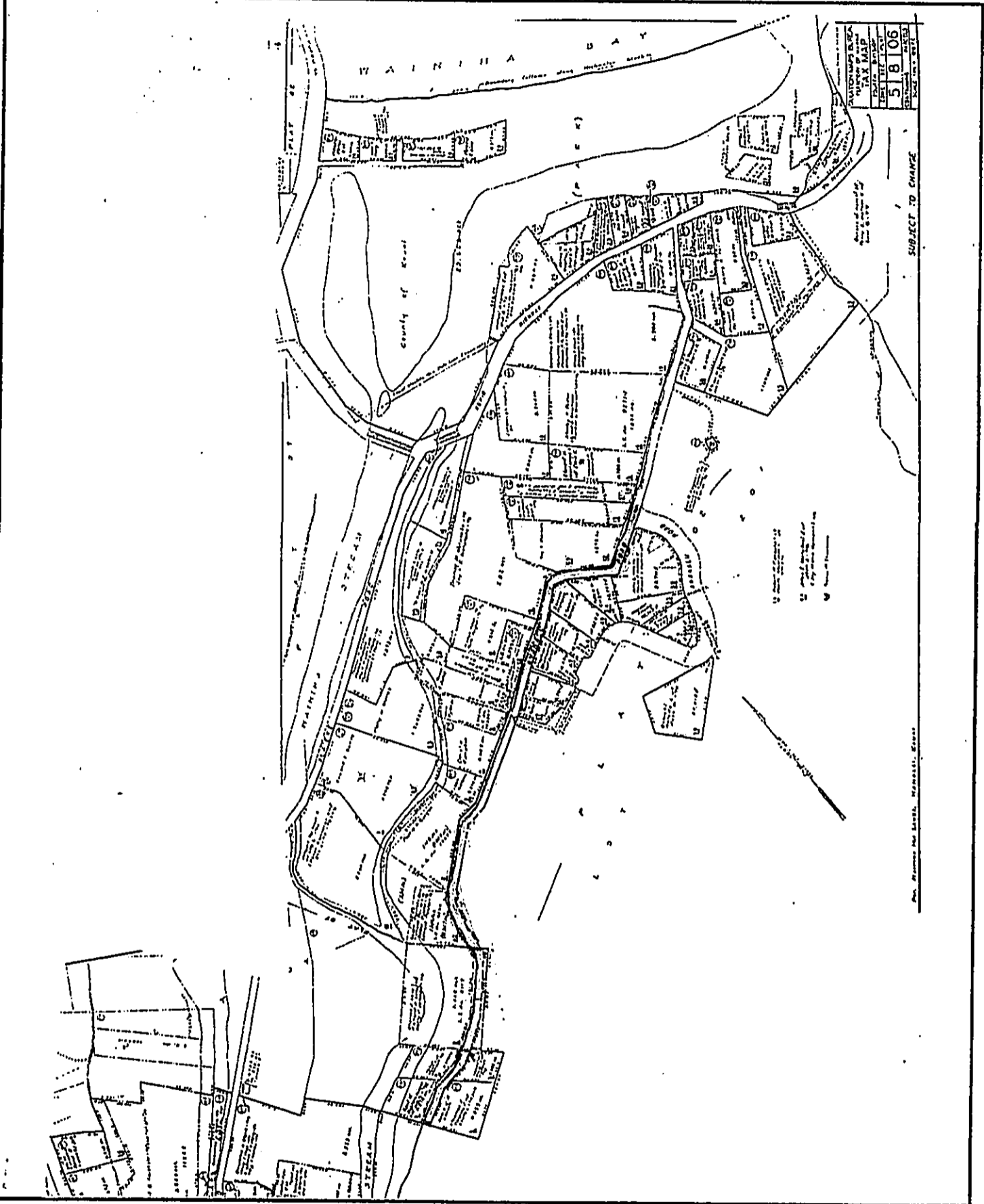
The total estimated development cost is approximately \$190,000. Funding will be by the Department of Water. Construction is projected to start March 2000 and should be completed July 2000.



ISLAND OF KAUAI

ESAKI SURVEYING & MAPPING, INC.
 Engineers, Land Surveyors & Planners
 1610 Haleukona Street
 Lihue, Kauai, Hawaii 96766

FIGURE 1
ISLAND OF KAUAI
 ANANALU ROAD WATERLINE JOB NO. 97-12
 WAINIHA, KAUAI, HAWAII

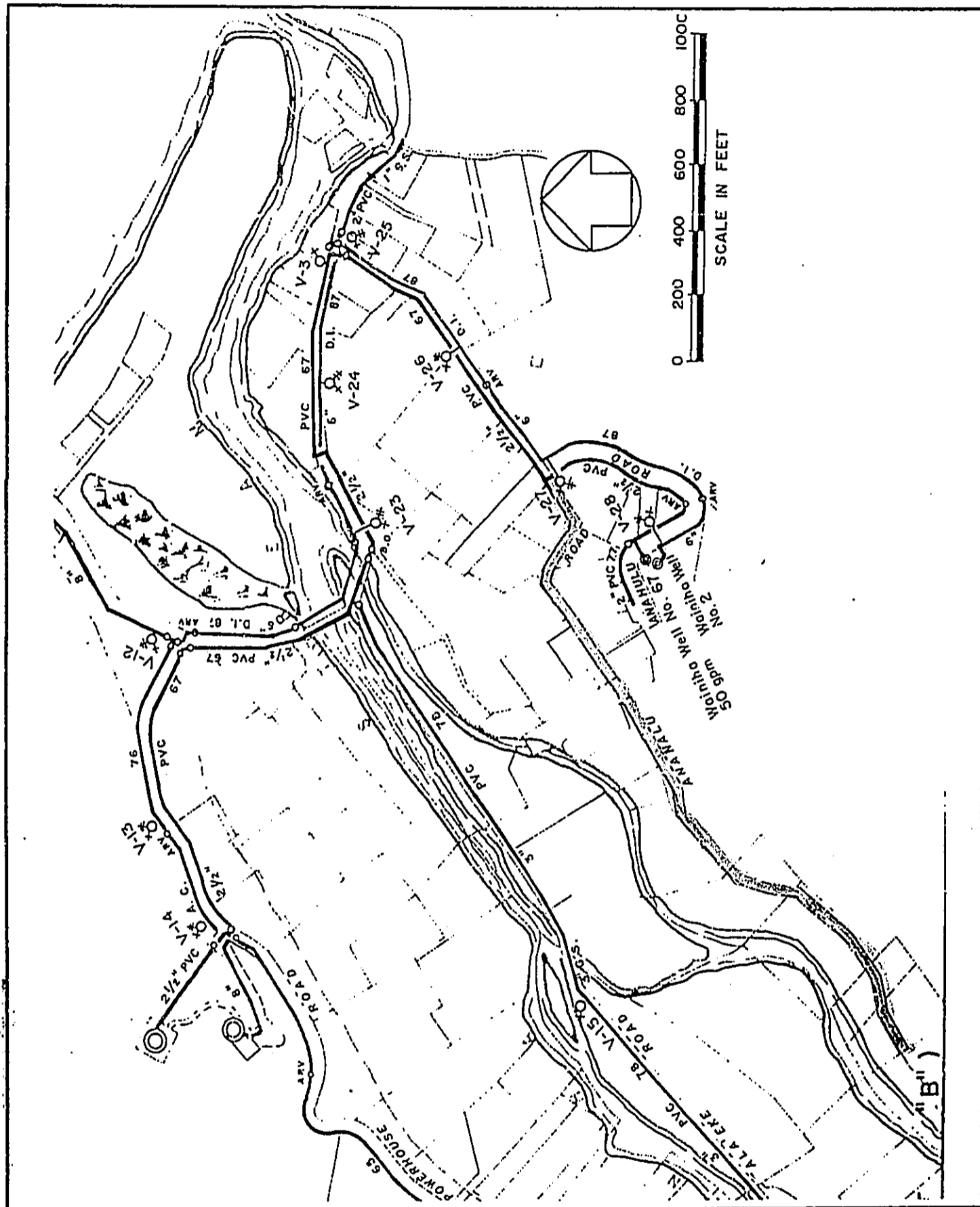


ESAKI SURVEYING & MAPPING, INC.

Engineers, Land Surveyors & Planners
 1610 Haleukana Street
 Lihua, Kauai, Hawaii 96766

**FIGURE 2
 LOCATION MAP**

ANANALU ROAD WATERLINE JOB NO. 97-12
 WAINIHA, KAUAI, HAWAII



ESAKI SURVEYING & MAPPING, INC.

Engineers, Land Surveyors & Planners
 1610 Haleukona Street
 Lihua, Kauai, Hawaii 96766

FIGURE 3
WATER FACILITY MAP
 ANANALU ROAD WATERLINE JOB NO. 97-12
 MAINIHA, KAUAI, HAWAII

SECTION II

DESCRIPTION OF THE AFFECTED ENVIRONMENT AND POTENTIAL ENVIRONMENT IMPACTS

A. USES

Existing Conditions: Ananalu Road is a dead end road with paved surface for approximately 210 linear feet of this project site. The remaining 1,840 linear feet is unimproved. There are 19 lots and 9 existing homes with water meters. The water meters are stacked at the intersection of Ananalu and Anahulu Roads. The connections to the homes are through private waterlines along Ananalu Road, the farthest being approximately 2,050 feet. The locations of these lines are not clearly documented and individual repairs are done along the public roadway.

Proposed Actions: See Section 1, Description of the proposed project.

Potential Impacts and Mitigative Measures: New service or repair requires excavating along the roadway. Additional problem is identifying the location of the existing consumer piping.

B. CLIMATE

Existing Conditions: Annual rainfall amounts to 33.87 inches. Three-fourths of it occurs from October through March. Temperature averages 70 degrees Fahrenheit.

Potential Impacts and Mitigative Measures: The project will not affect macro or micro weather conditions.

C. TOPOGRAPHY AND SOILS

Existing Conditions: Ground elevation from a high 32 feet to a low of 14 feet above mean sea level. Cross slope is level. Permeability is moderate. Runoff is slow and the erosion hazard is no more than slight.

Potential Impacts and Mitigative Measures: Impacts occurring on the physical terrain from development of the project site are expected to be minimal. Since the site is relatively flat, minimum grading will be required. To minimize soil erosion during the construction process, erosion control measures will be designed and implemented in accordance with applicable governmental regulations.

D. SURFACE WATER AND DRAINAGE

Existing Conditions: The property is not in an identified flood area and is designated as "Zone X and VE 18" on Kauai County's Flood Insurance Rate Map dated March 4, 1987. Zone X is defined as "Areas determined to be outside 500-year flood plain." "VE 18" is defined as Special Flood Areas inundated by 100-year flood with a base flood elevation of 18 feet above mean sea level.

Proposed Actions: There will be no action that will affect the base flood elevation.

Potential Impacts and Mitigative Measures: No direct impacts on drainage should occur.

E. FLORA AND FAUNA

Existing Conditions: The project site is an existing roadway devoid of any flora. There are no rare, threatened or endangered vertebrate animal species known to exist on the project site.

Proposed Actions: Trenching and backfilling along an existing roadway to install a pipeline.

Potential Impacts: Adverse impacts are not anticipated. The proposed project is not expected to have a significant impact on flora as the site consists of an existing roadway.

F. HISTORIC SITES

Existing Conditions: The subject site was previously excavated and a roadway constructed.

Proposed Action: Re-excavation of portion of roadway to install a pipeline.

Potential Impacts: Should subsurface features or burials be unearthed, work in the immediate area shall cease and professional archaeologists summoned to investigate the find. Applicant also will notify the County of Kauai Planning Department and the State Historic Preservation Officer. Disinterment of gravesites shall comply with Chapter 6E H.R.S.

G. LAND USE CONTROLS

Existing Conditions: The property is classified as Rural by the State Land Use Commission, and has a County General Planned designation of Open. The

proposed project is less than fifteen (15) acres and thus is not required to apply to the Land Use Commission for land use change.

Proposed Action: The proposed use of the property will be consistent with the conditions of the surrounding area.

Potential Impacts: The proposed use should not conflict with the zoning of nearby properties.

H. AIR QUALITY

Existing Conditions: Occasional dust is generated by local traffic.

Potential Impacts and Mitigative Measures: Ambient air quality may be affected by dust raised during site preparation activities and by exhaust fumes from internal combustion engines. Fugitive dust is an inevitable consequence of soil handling/movement but can be controlled by water sprinkling or application of dust suppressants.

Combustion discharges from construction equipment and vehicles are not anticipated to significantly alter ambient air quality and can be minimized by proper operation and maintenance of all petroleum-fueled equipment. In addition, the prevailing winds can be expected to dilute and disperse exhaust emissions away from existing homes.

All activities shall comply with Air Pollution Control Regulations (Chapter 43) of the State Department of Health and all applicable County ordinances.

At completion of the project, air quality for the existing residential community will revert to pre-construction levels.

I. NOISE

Existing Conditions: The property is currently being impacted by noise mainly from local traffic.

Proposed Actions: Noise levels are expected to increase once construction starts on the property. Maximum sound level would fall in the 85-96 dB(A) range with the latter generated by earth moving and pneumatic impact equipment. Noise should be most pronounced during site work followed by reductions in frequency and duration during actual construction and post construction phases.

Potential Impacts and Mitigative Measures: The project abuts an existing residential development and it is possible that residents may be disturbed by construction noises. Although noise cannot be eliminated entirely and may be thought of as a short-term deleterious consequence, the Contractor will be required to have his equipment equipped with mufflers. The hours of operation will also be regulated.

In the long run, it is anticipated that noises emanating from the completed project would be similar to that of the adjoining residential subdivision.

J. HOUSING

Potential Impacts and Mitigative Measures: When completed, the proposed project will allow the abutting landowners to have adequate water facilities and fire protection.

K. PUBLIC UTILITIES AND SERVICES

1. Access:

Existing Conditions: Access to the project site will be from the existing Ananalulu Road. Ananalulu Road has a Right of Way of 30 feet with a paved surface that begins at Kuhio Highway. The last 1,840 feet is unimproved. There will be temporary inconvenience due to roadway excavation while installing the pipeline. This project will not have a permanent effect on the travelway access.

2. Water:

Existing Conditions:

Potential Impacts and Mitigative Measures: The estimated water demand is 4,500 gallons per day. This is based on 9 services at 500 gallons per household per day. Service laterals will be installed by excavating across Ananalulu Road. There is an off-site transmission main, up to the intersection of Ananalulu Road and Anahulu Road. County water is available at the existing source. No additional source or storage is anticipated.

3. Wastewater:

Existing Conditions: There is no existing treatment plant that services the Wainiha area. All homes are serviced by cesspools or septic tanks.

Proposed Actions: No service improvements are planned at this time.

4. Solid Waste:

Existing Conditions: Residential refuse collection services are available at the residential homes immediately adjacent to the proposed project. A truck crew is capable of servicing 600-homes per day. Collected refuse is delivered to a transfer station where the volume of the refuse is reduced by 50% from compaction. The compacted refuse is then hauled to the Kekaha landfill for disposal.

Potential Impacts and Mitigative Measures: No changes in existing service are planned for the proposed project.

5. Fire Protection:

Existing Conditions: Fire protection service for the Wainiha area is currently being provided by the Princeville Fire Station. The Kapaa and Lihue Fire Stations are available under emergency conditions. Four (4) men are assigned to the station with three (3) on duty at all times with Major fire fighting equipment. Response time to the proposed development from the station, a distance of about 6.1 miles, is estimated at 15 minutes.

Emergency medical services (to include an ambulance and emergency medical technician) are provided by the Princeville Fire Station in conjunction with a private firm, which is contracted with the State Department of Health.

6. Police Protection:

Existing Conditions: Police service in the Wainiha area is provided by the Princeville Police Station. The Princeville Police Station is located at Princeville and is approximately 6.1 miles from the proposed project site.

Proposed Actions: None

7. Public Schools:

Existing Conditions: The public schools servicing the Hanalei area are Hanalei Elementary (K-6), Kapaa Intermediate (6-8) and Kapaa High (9-12).

Proposed Action: None

8. Utilities:

Existing Conditions: Electrical power and telephone services are available from overhead distribution lines along Ananalua Road.

Proposed Actions: None.

9. VISUAL EFFECTS:

Existing Conditions: This project involves underground waterline extension. Therefore, there will be no permanent visual effect except for fire hydrants that will be visible only from the immediate vicinity due to lush vegetation on both sides of the roadway

SECTION III

ALTERNATIVES TO THE PROPOSED ACTION

No Action

A no action alternative would prevent the adjacent landowners from receiving any Fire Protection from the fire hydrants. Additionally, any new water service connection would require excavation along the public roadway or through neighboring private property to install a private consumer piping.

SECTION IV
ASSESSMENT PROCESS AND DETERMINATION OF
SIGNIFICANCE

Assessment Process

The scope of the project was discussed with the Applicant and representatives of the Department of Water. Information was collected from the State of Hawaii departments, County of Kauai agencies and offices, and utility companies. Time was spent in the field evaluating the site and observing conditions in the surrounding area.

Based on information obtained from the above references, the Environmental Assessment was prepared.

Determination of Significance and Recommendation

Chapter 200 of Title 11, Administrative Rules of the Department of Health entitled "Environmental Impact Statement Rules" established criteria for evaluating whether and action may have a significant effect on the environment. The relationship of the proposed project to these criteria are discussed below.

1. Involves an irrevocable commitment to loss or destruction of any natural or cultural resources.

None is anticipated. Roadway will be restored to original condition.
2. Curtails the range of beneficial uses of the environment.

The temporary inconvenience during construction should be offset by the provision of water and fire protection for nine (9)

households. Owing to the paucity of significant environment features and the existing residential zoning of the land the proposed development is considered an appropriate use.

3. Conflicts with the State's long-term environmental policies of goals and guidelines are expressed in Chapter 344, Hawaii Revised Statutes, and any revisions thereof and amendments thereto, court decisions or executive orders.

The project enriches the well being of the area residents with no damage to the environment.

4. Substantially affects the economic or social welfare of the community or State.

The estimated construction cost (\$190,000) will not substantially affect the economy while providing a public utility.

5. Substantially affects public health.

The proposed project will not substantially affect economic or sociological activities. It is an implementing action that provides a public utility for a number of residents along Ananalua Road. It is believed that a comfortable home instills psychological and sociological values, which collectively contributes to neighborhood stability and the community at large.

6. Involves substantial secondary impacts, such as population changes or effects on public facilities.

The number of lots and demand for public services and facilities will not be increased due to this project.

7. Involves a substantial degradation of environmental quality.

Environmental quality will remain the same.

8. Is individually limited but cumulatively has considerable effect upon the environment or involves a commitment for larger actions.

The proposed project does not involve a commitment for larger actions in the immediate area.

9. Substantially affects a rare, threatened, or endangered species (plant and animal) or its habitat.

The site is devoid of rare, threatened, or endangered species (plant and animal) or its habitat as it is along an existing roadway.

10. Detrimentially affects air or water quality or ambient noise levels.

Although fugitive dust and noises created during construction cannot be completely eliminated, such conditions can be mitigated by measures identified in this Assessment.

11. Affects on environmentally sensitive area such as a flood plain, tsunami zone, erosion-prone area, geologically hazardous land, estuary, fresh water, or coastal waters.

The waterline project is not in any such zone nor will it affect any such area.

12. Substantially affects scenic vistas and vine plants identified in County or State plans or studies
13. Requires substantial energy consumption.

The only energy consumption will be for construction equipment. After construction, water flow through the pipelines will be by gravity.

Based on the above criteria, the proposed project should not result in significant adverse environmental impacts. Potential environmental impacts are sufficiently disclosed in this Environmental Assessment and therefore it is recommended that Environmental Impact Statement is not required.

SECTION V
COMMENTS AND RESPONSES

ESAKI SURVEYING & MAPPING, INC.

SURVEYING/CIVIL ENGINEERING/PLANNING
1610 HALEUKANA STREET • LIHUE, KAUAI, HAWAII 96766 • TELEPHONE: (808) 246-0625 • FAX: 246-0229

October 28, 1999

Received
11/16/99

Dear Wainiha Resident:

Esaki Surveying and Mapping, Inc. has designed a waterline for the County of Kauai, Department of Water along Ananalua Road. A location map is enclosed.

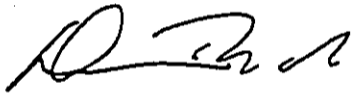
The waterline will extend 2,247 feet mauka from the intersection of Ananalua and Anahulu Roads.

The estimated construction date is March 2000.

We are preparing the Environmental Assessment and would welcome any concerns or input you have.

Should you have any questions or comments, please send them to the above address.

Very truly yours,



Dennis M. Esaki

DME:gt

Enclosure

11/15/99

Dear Persons:

My concern is what happens re: the existing water lines that we as property owners had to install ourselves?

Do they then become disconnected or what?

Sincerely,



Margaret Ferguson
P.O. Box 426 (not 425)
Lawai, HI 96765

ESAKI SURVEYING & MAPPING, INC.

SURVEYING/CIVIL ENGINEERING/PLANNING
1610 HALEUKANA STREET • LIHUE, KAUAI, HAWAII 96766 • TELEPHONE: (808) 246-0625 • FAX: 246-0229

November 22, 1999

Ms. Margaret Ferguson
P. O. Box 426
Lawai, HI 96765

RE: WATERLINE AT ANANALU ROAD

Dear Ms. Ferguson,

Thank you for your letter dated November 15, 1999. In answer to your question regarding the existing waterlines that the owners installed, they will be abandoned "in-place" as new connections and water meters are placed fronting the respective lots.

Very truly yours,



Dennis M. Esaki
PRESIDENT
Esaki Surveying and Mapping, Inc.

ESAKI SURVEYING & MAPPING, INC.

SURVEYING/CIVIL ENGINEERING/PLANNING
1610 HALEUKANA STREET • LIHUE, KAUAI, HAWAII 96766 • TELEPHONE: (808) 246-0625 • FAX: 246-0229

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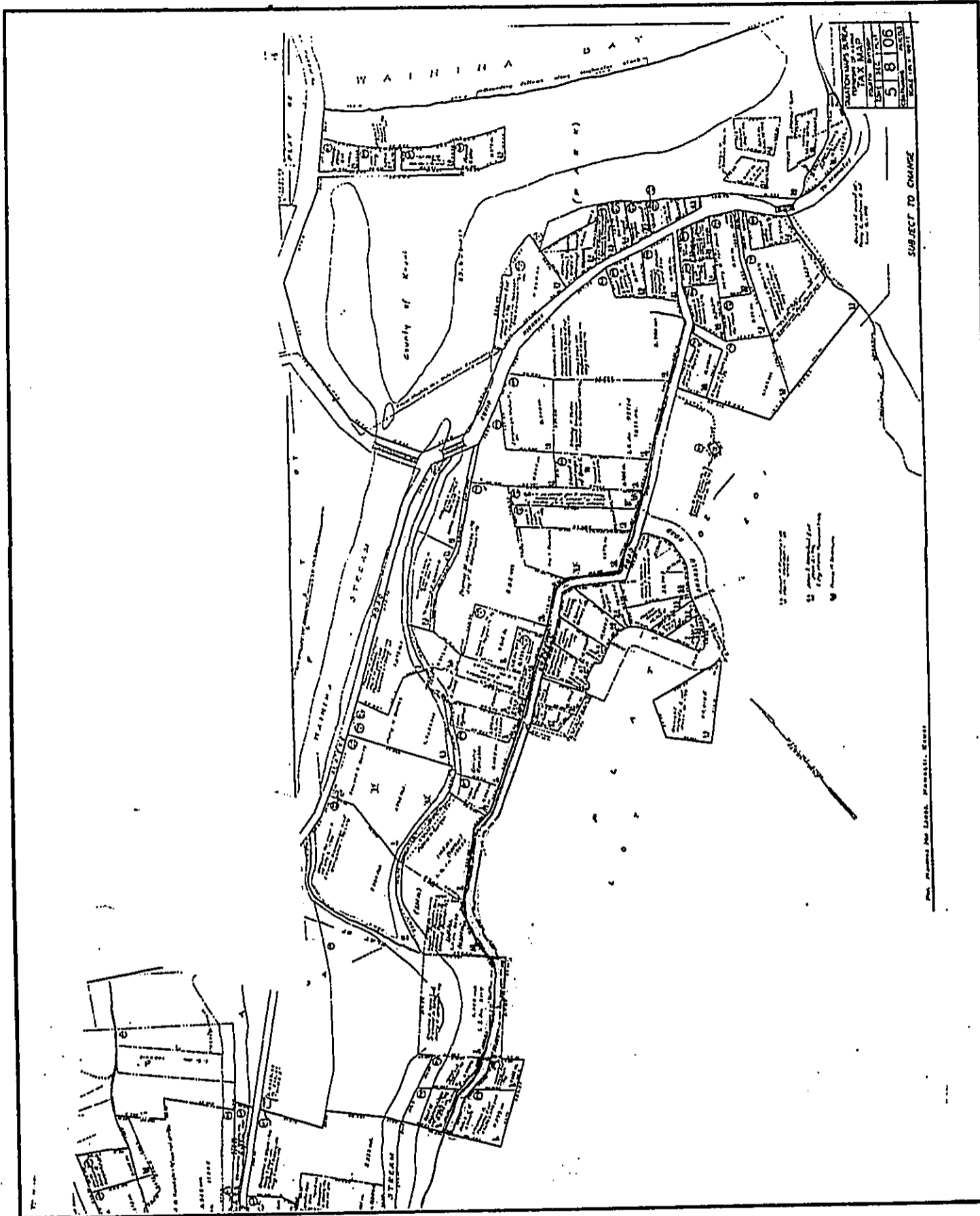
Very truly yours,



Dennis M. Esaki

DME:gt

Enclosure



Groups and Individuals Affected by the Proposed Project

TMK: (4) 5-8-06

<u>Parcel Numbers</u>	<u>Names and Addresses</u>
02	Neil Marshall 544 Heathcliff Drive Pacifica, CA 94044
03	Margaret Burgess 1311 E. Vanowen Avenue Orange, CA 92867
04	Carroll Sparks P. O. Box 846 Hanalei, HI 96714
05	Margaret Ferguson P. O. Box 426 Lawai, HI 96765
06	Robert Goodell P. O. Box 74 Boonville, CA 95415
07	Christie Kariakin P. O. Box 567 Hanalei, HI 96714
08	Mitchell McPeck P. O. Box 473 Hanalei, HI 96714
10	Gary Capers P. O. Box 835 Hanalei, HI 96714
12	Roy Chambers P. O. Box 1631 Hanalei, HI 96714
13	Allen Marutani 1722 Kumakani Loop Honolulu, HI 96821

Parcel Numbers

Names and Addresses

40

Henry Puulei
1254 Wamala Street
Honolulu, HI 96818

47

Peter Chamberlin
1246 Walker Avenue #308
Walnut Creek, CA 94596

48

William Provost
P. O. Box 1727
Hanalei, HI 96714

49

Glenn Harada
46-134 Aeloa Street
Kaneohe, HI 96744

50

Wayne Harada
P. O. Box 124
Hanalei, HI 96714

51

James Morris
P. O. Box 698
Anahola, HI 96703

52

First Hawaiian Bank TRS/CR
1132 Bishop Street
Honolulu, HI 96813

53

John Haumea
P. O. Box 107
Hanalei, HI 96714

54

Marsha Honnold
7634 Hollister Avenue #256
Goleta, CA 93117

55

Dexter Chung
P. O. Box 129
Hanalei, HI 96714

56

Genichi Harada
P. O. Box 415
Hanalei, HI 96714

Parcel Numbers

57

Names and Addresses

Takeshi Harada
94-443 Kahuanani Street
Waipahu, HI 96797

67

Michael Rowan
P. O. Box 1001
Hanalei, HI 96714

68

Thomas Chamberlin
P. O. Box 111
Hanalei, HI 96714