

LINDA CROCKETT LINGLE
Mayor

CHARLES JENCKS
Director

AARON SHINMOTO, P.E.
Chief Staff Engineer



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COUNTY OF MAUI
DEPARTMENT OF PUBLIC WORKS
AND WASTE MANAGEMENT

200 SOUTH HIGH STREET
WAILUKU, MAUI, HAWAII 96793

February 8, 1995

RALPH NAGAMINE, L.S., P.E.
Land Use and Codes Administration

EASSIE MILLER, P.E.
Wastewater Reclamation Division

LLOYD P.C.W. LEE, P.E.
Engineering Division

DAVID WISSMAR, P.E.
Solid Waste Division

BRIAN HASHIRO, P.E.
Highways Division

Mr. Gary Gill, Director
Office of Environmental Quality Control
Central Pacific Plaza
220 South King Street, Suite 400
Honolulu, Hawaii 96813

SUBJECT: NEGATIVE DECLARATION FOR KANAKANUI ROAD IMPROVEMENT PROJECT FROM
KEONEKAI ROAD TO ROAD "F", TMK 3-9-13, 19 AND 43, KIHEI, MAUI, HAWAII

Dear Mr. Gill:

During the 30-day comment period which began on January 8, 1995, the Department of Public Works and Waste Management, County of Maui, received no comments on the draft environmental assessment for the subject road improvement project. This department has determined that the subject project will not have significant environmental effects and has issued a negative declaration.

Attached are four (4) copies of the Final Environmental Assessment (Negative Declaration) and a completed OEQC Bulletin Publication Form. Please publish this notice in the earliest OEQC Bulletin possible.

Should you have any questions, please contact Mr. Joseph Krueger, P.E., of our Engineering Division at (808) 243-7745.

Thank you for your cooperation.

Very truly yours,

CHARLES JENCKS
Director of Public Works
and Waste Management

Attachment
LL/ch(ED95-187)
KanakaO.EQC

xc: Joseph Krueger, P.E.
Interstate



1995-03-08-MA-FA-Kanakani Road Improvement Project
from Keonekai Road to Road F MAR - 8 1995

FINAL
ENVIRONMENTAL ASSESSMENT
[NEGATIVE DECLARATION]

FOR

KANAKANUI ROAD IMPROVEMENTS

FROM KEONEKAI ROAD TO ROAD "F"
KIHEI, MAUI, HAWAII
JOB NO. 93-76
T.M.K. 3-9-13, 19, and 43

Prepared for:

February, 1995

Department of Public Works
& Waste Management
County of Maui

Interstate Maui Realty

I. PROPOSING AGENCY

County of Maui
Department of Public Works
& Waste Management
Mr. George Kaya, Director
200 South High Street
Wailuku, HI 96793
Telephone No. (808) 243-7845

Agency Contact: Mr. Joseph Krueger, P.E.
Engineering Division
200 South High Street
Wailuku, HI 96793
Telephone No. (808) 243-7745

II. PARTIES CONSULTED IN PREPARING ASSESSMENT

The following parties have reviewed and commented on the proposed project or have been consulted in the preparation of this environmental assessment:

COUNTY OF MAUI

Mr. Brian Miskae, Director
Department of Planning
250 South High Street
Wailuku, HI 96793

Mr. David Craddick, Director
Department of Water Supply
P.O. Box 1109
Wailuku, HI 96793

Mr. George Kaya, Director
Department of Public Works
& Waste Management
200 South High Street
Wailuku, HI 96793

County of Maui
Police Department
55 Mahalani Street
Wailuku, HI 96793
Attn: Howard Tagamori, Chief

County of Maui
Department of Fire Control
Wailuku, HI 96793
Attn: Ronald Davis, Chief

STATE OF HAWAII

Department of Transportation
Highways Division - Maui District
650 Palapala Drive
Kahului, HI 96732
Attn: Bob Siarot

Department of Health
Environmental Management Division
919 Ala Moana Blvd., 3rd Floor
Honolulu, HI 96814
Attn: Thomas Arizumi, Chief

Department of Land & Natural Resources
State Historic Preservation Division
33 South King Street, 6th Floor
Honolulu, HI 96813
Attn: Don Hibbard, Administrator

Department of Land & Natural Resources
Water & Land Development Division
1151 Punchbowl Street
Honolulu, HI 96813

OTHERS

Maui Electric Company
Engineering Division
P.O. Box 398
Kahului, HI 96732

Chronicle Cablevision
350 Hoohana Street
Kahului, HI 96732

Hawaiian Telephone Company
Engineering Division
60 South Church Street
Wailuku, HI 96793

Kihei Community Association
P.O. Box 662
Kihei, HI 96753

FEDERAL

U.S. Army Corps of Engineers
Pacific Ocean Division, Bldg. 230
Fort Shafter, HI 96858

**III. GENERAL DESCRIPTION OF THE ACTION'S TECHNICAL, ECONOMIC,
SOCIAL AND ENVIRONMENTAL CHARACTERISTICS**

Project Description

The proposed project (Kanakanui Road Improvements) is located in Kihei, Maui. The project area is further identified as being in Tax Map Key Second Division, 3-9-13, 19, and 43. Refer to Figures 1 and 2.

Anticipated work for approximately 3,600± lineal feet of improvements to Kananui Road include:

1. New asphaltic concrete pavement with roadway widening to include two 12-foot travel lanes with 6-foot paved shoulders on both sides of Kananui Road.

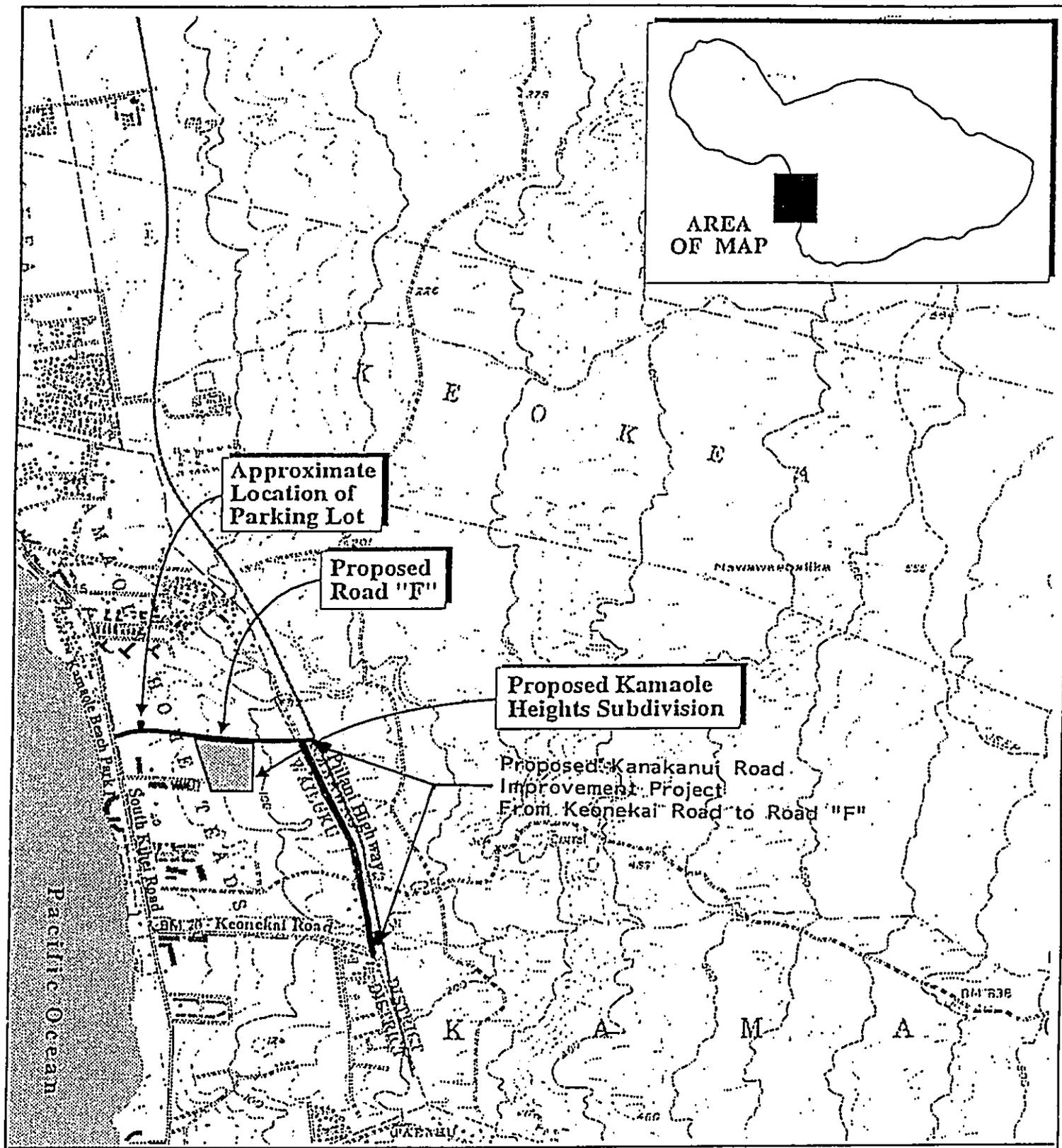
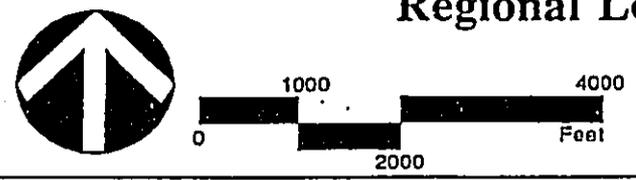


Figure 1 Proposed Project Regional Location Map



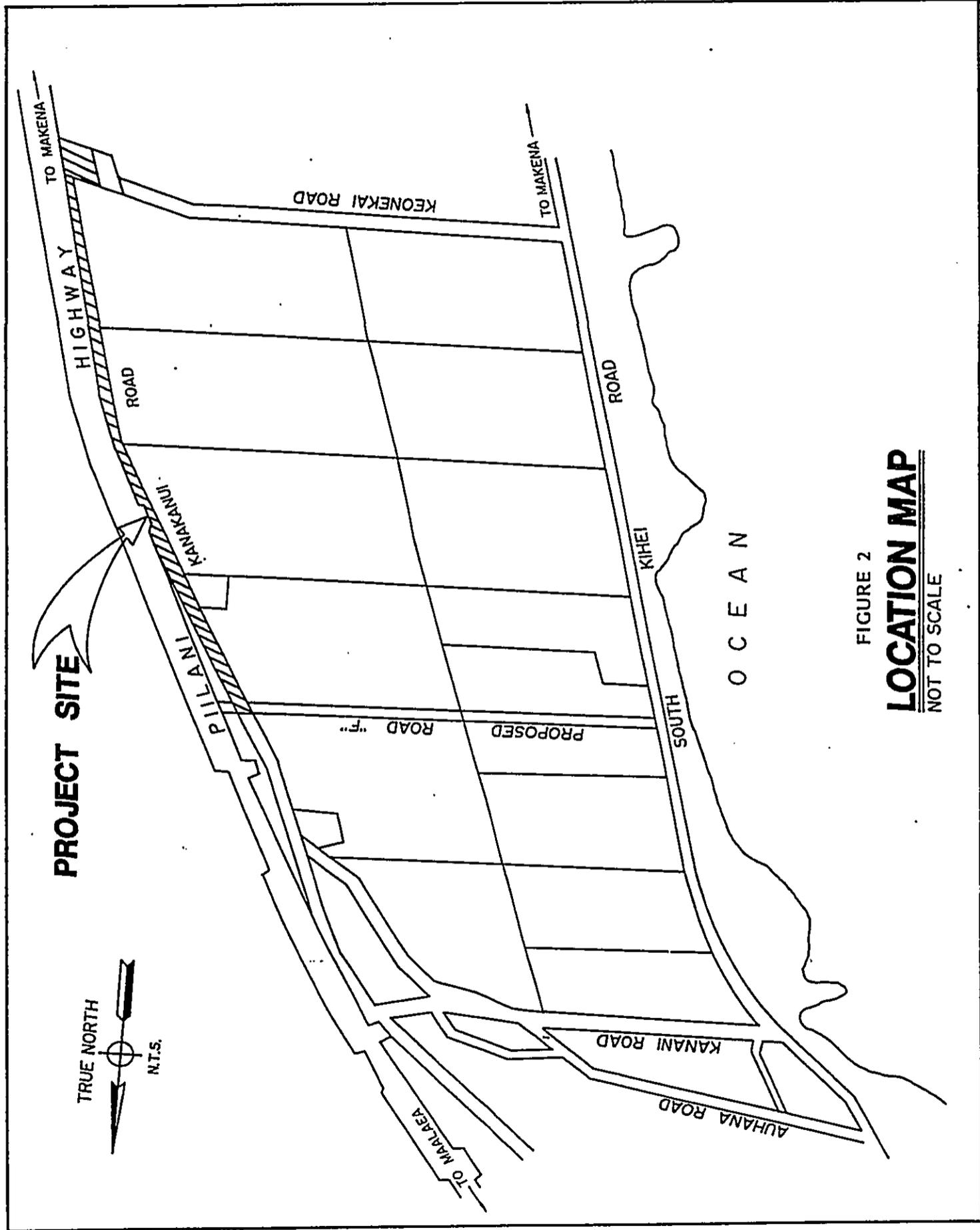
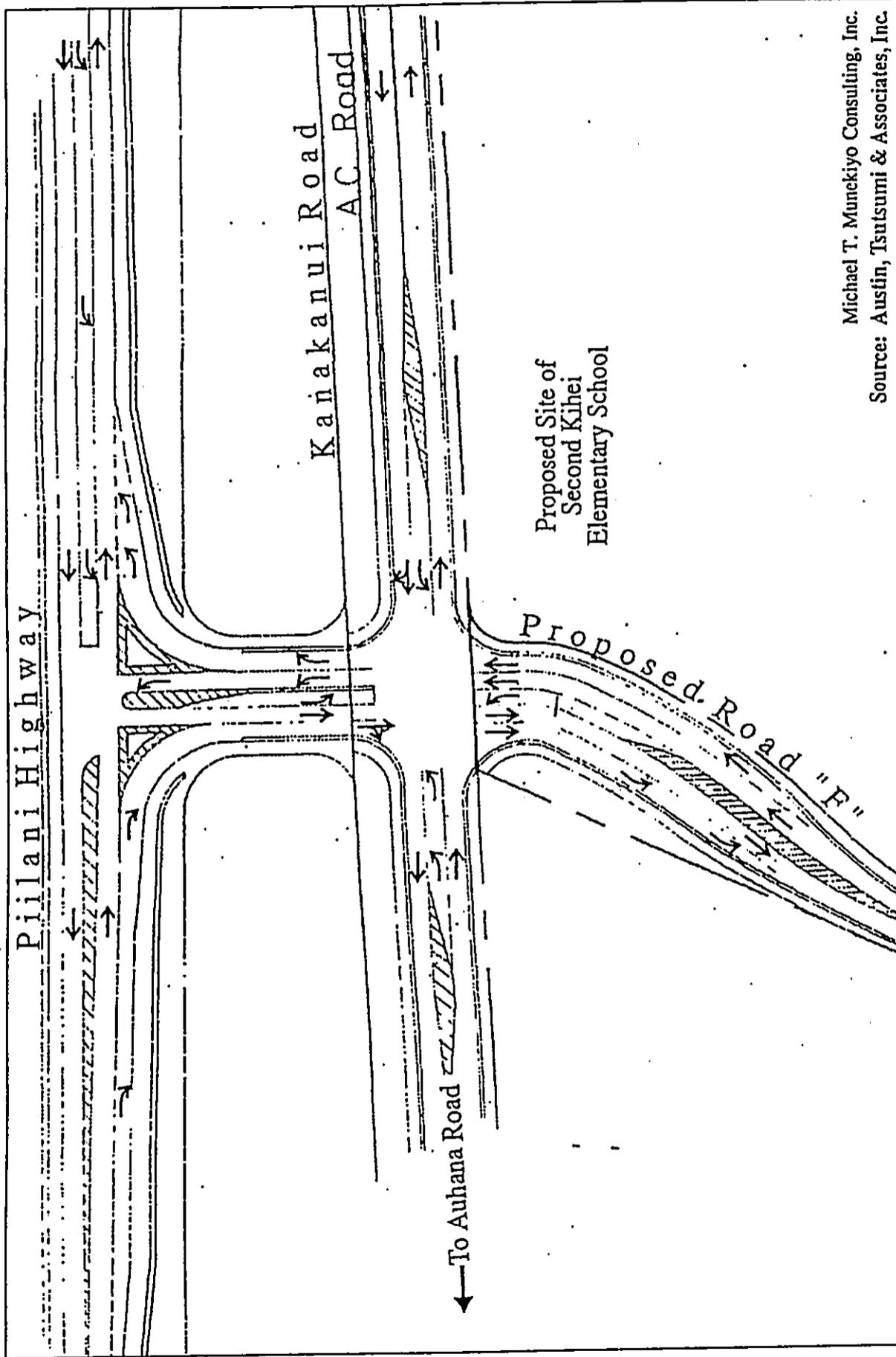


FIGURE 2
LOCATION MAP
 NOT TO SCALE

2. Realignment of Kananui Road at the Keonekai Road intersection to further increase the safe sight distance along Kananui Road near the Lilioholo Gulch crossing.
3. Construction of a concrete ford crossing in the area where Kananui Road crosses Lilioholo Gulch. Drainage culverts will not be constructed at the Lilioholo Gulch crossing at Kananui Road.
4. A left turn vehicle storage lane will be provided at the Kananui Road/Alaku Place intersection.
5. The two 32-inch culverts crossing Kananui Road at a site immediately north of the Keonekai Heights Subdivision will be replaced with two 72-inch culverts. The existing open channel leading from the outlet of the two 72-inch culverts at Piilani Highway to the new Kananui Road culverts will not be altered.
6. Improvements at the northern end of the proposed project, where Kananui Road intersects with the proposed Road "F", will be done to match the improvements to Road "F" to be done by the KOAHE Limited Partnership. See Figure 3, Intersection Detail Plan.

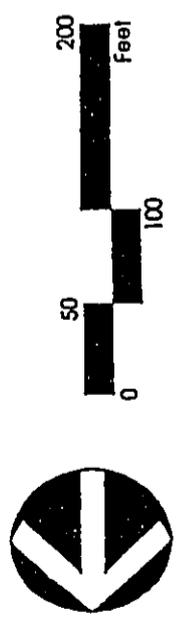
The profile of the road improvement project, as much as possible, will match the existing grade of Kananui Road. Interior drainage improvements are not contemplated and surface runoff will be diverted to existing drainage systems. No curbs, gutters or sidewalks will be constructed as part of this project. Other improvements call for adjusting existing utility lines and poles, pavement striping and the installation of traffic control signages.

Figures 1 and 3 used in this environmental assessment were copied from a draft environmental assessment prepared by Michael T. Munekiyo Consulting, Inc. for KOAHE Limited Partnership's Road "F"/Kamaole Heights proposed project. Figure 1 shows the location



Michael T. Munkiyō Consulting, Inc.
Source: Austin, Tsutsumi & Associates, Inc.

Figure 3
Kananui Road/Road "F"
Proposed Intersection Detail



of the Road "F"/Kamaole Heights project in relation to the Kananui Road Improvement Project. The Kananui Road Project starts at Keonekai Road to the south and ends at Road "F" to the north. Figure 3 shows the proposed improvements at the Kananui Road/Road "F" intersection and the Connection to Piilani Highway proposed by KOAHE Limited Partnership.

Kihei-Makena Community Plan

The proposed project is located in the Kihei-Makena Community Plan region. Presently, land located west (makai) of the project is designated single family. Lands located east (mauka) are designated Open Space and Agriculture. The proposed project is not contrary to the Kihei-Makena Community Plan goals and objectives.

Special Management Area

Kananui Road is located in the County of Maui Special Management Area. The proposed project will be reviewed by the Maui Planning Commission with respect to Chapter 202, Special Management Area Rules for the Maui Planning Commission adopted on December 7, 1993 and Chapter 205-A Hawaii Revised Statutes relating to Coastal Zone Management.

The Maui Planning Commission review of projects within the Special Management Area takes into consideration the overall significant environmental and ecological effects a project may have within the coastal area. Section 12-202-12 (e) (2) lists twelve criteria on which a proposed project's significant effect on the environment is measured, these include:

1. Involves an irrevocable commitment to loss or destruction of any natural or cultural resources;
2. Significantly curtails the range of beneficial uses of the environment;
3. Conflicts with the County's or the State's long-term environmental policies or goals;
4. Substantially affects the economic or social welfare and activities of the community, County or State;
5. Involves substantial secondary impacts, such as population changes and increased effects on public facilities, streets, drainage, sewage, and water systems, and pedestrian walkways;
6. In itself has no significant adverse effects but cumulatively has considerable effect upon the environment or involves a commitment for larger actions;
7. Substantially affects a rare, threatened, or endangered species of animal or plant, or its habitat;
8. Is contrary to the state plan, county's general plan, appropriate community plans, zoning and subdivision ordinances.
9. Detrimentially affects air or water quality or ambient noise levels;
10. Affects an environmentally sensitive area, such as flood plain, shoreline, tsunami zone, erosion-prone area, geologically hazardous land, estuary, fresh waters, or coastal waters;

11. Substantially alters natural land forms and existing public views to and along the shoreline; or
12. Is contrary to the objectives and policies of HRS Chapter 205.

The Kananui Road Improvement Project will not adversely affect any part of the twelve significant criteria listed above. The objectives and policies listed in Chapter 205-A, Section 205A-2, Coastal Zone Management program; objectives and policies, will not be adversely compromised by the proposed road improvement project.

IV. AFFECTED ENVIRONMENT

Existing Land Use

Kananui Road is an existing unstriped roadway extending from Keonekai Road on the South to Auhana Road to the north. Pavement width varies from 12 feet to 23 feet with no curbs, gutters or sidewalks existing along Kananui Road.

The Kihei-Makena Community Plan designates land located makai (west) of Kananui Road for single-family residential use. These lands are all located within the State Land Use Urban District. Land uses mauka (east) of Kananui Road include the Piilani Highway generally running parallel (north-south) with Kananui Road and lands that are used for limited cattle grazing in the State land use Agricultural District.

The Kananui Road Improvement Project ends at the intersection of the proposed Road "F" and the site of the second Kihei Elementary School.

Soils and Topography

According to the United States Department of Agriculture, Soil Conservation Service, "Soil Survey of the Islands of Kauai, Oahu, Maui, Molokai and Lanai,

State of Hawaii", August, 1972, the project area soils type is in the Puuone Series and classified as Puuone sand, 7 to 30 percent slopes (PZUE). These soils developed in material derived from coral and seashells and generally used as pasture and residential homesites.

In profile Puuone sand is grayish-brown calcareous sand about 20 inches thick which is underlain by grayish-brown cemented sand. Permeability is rapid above the cemented layer. Runoff is slow and the hazard of wind erosion is moderate to severe.

The Land Study Bureau Bulletin No. 7, May 1967, entitled "Detailed Land Classification - Island of Maui" assigns an overall productivity rating of E (area of lowest productivity) for the area that includes the project site.

Flora and Fauna

The Kananui Road Improvement Project will not affect any endangered or rare species of plants or animals.

Vegetation within the project area consists mainly of scattered kiawe trees, haole koa and buffel grass.

Flood Hazard

Kananui Road is in an area designed Zone C (areas of minimal flooding) by the Federal Emergency Management Agency on its Flood Insurance Rate Maps. See Figure 4 and 4-A.

Archeological Resources

Review of documents and maps at the County of Maui Planning Department indicates that there are no known archaeological resources within the right-of-way limits of Kananui Road. However, in the unlikely event that archaeological discoveries are made during the construction of the Kananui Road Improvement

KEY TO MAP

100-year Flood Boundary	ZONE B
100-year Flood Boundary	ZONE AS
100-year Flood Boundary	ZONE B
Flood Elevation Line (Elevation in Feet)**	513
Flood Elevations in Feet Unknown Within Zone**	ICL 9871
Sea Reference Mark	RM7x
Scale	1:50,000

Based on the National Geodetic Vertical Datum of 1929

EXPLANATION OF ZONE DESIGNATIONS

EXPLANATION

- Area of 100-year flood; base flood elevations and flood hazard factors not determined.
- Area of 100-year shallow flooding where depths are between one (1) and three (3) feet; average depths of inundation are shown, but no flood hazard factors are determined.
- Area of 100-year shallow flooding where depths are between one (1) and three (3) feet; base flood elevations are shown, but no flood hazard factors are determined.
- Area of 100-year flood; base flood elevations and flood hazard factors determined.
- Area of 100-year flood to be protected by flood protection system under construction; base flood elevations and flood hazard factors not determined.
- Area between limits of the 100-year flood and 500-year flood; at certain areas subject to 100-year flooding with average depths less than one (1) foot or where the contributing drainage area is less than one square mile; or areas protected by levees from the base flood. (Medium shading)
- Area of minimal flooding. (No shading)
- Area of undetermined, but possible, flood hazards.
- Area of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors not determined.
- Area of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors determined.

NOTES TO USER

NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP

MAUI COUNTY, HAWAII

PANEL 265 OF 400
(SEE MAP INDEX FOR PANELS NOT PRINTED)

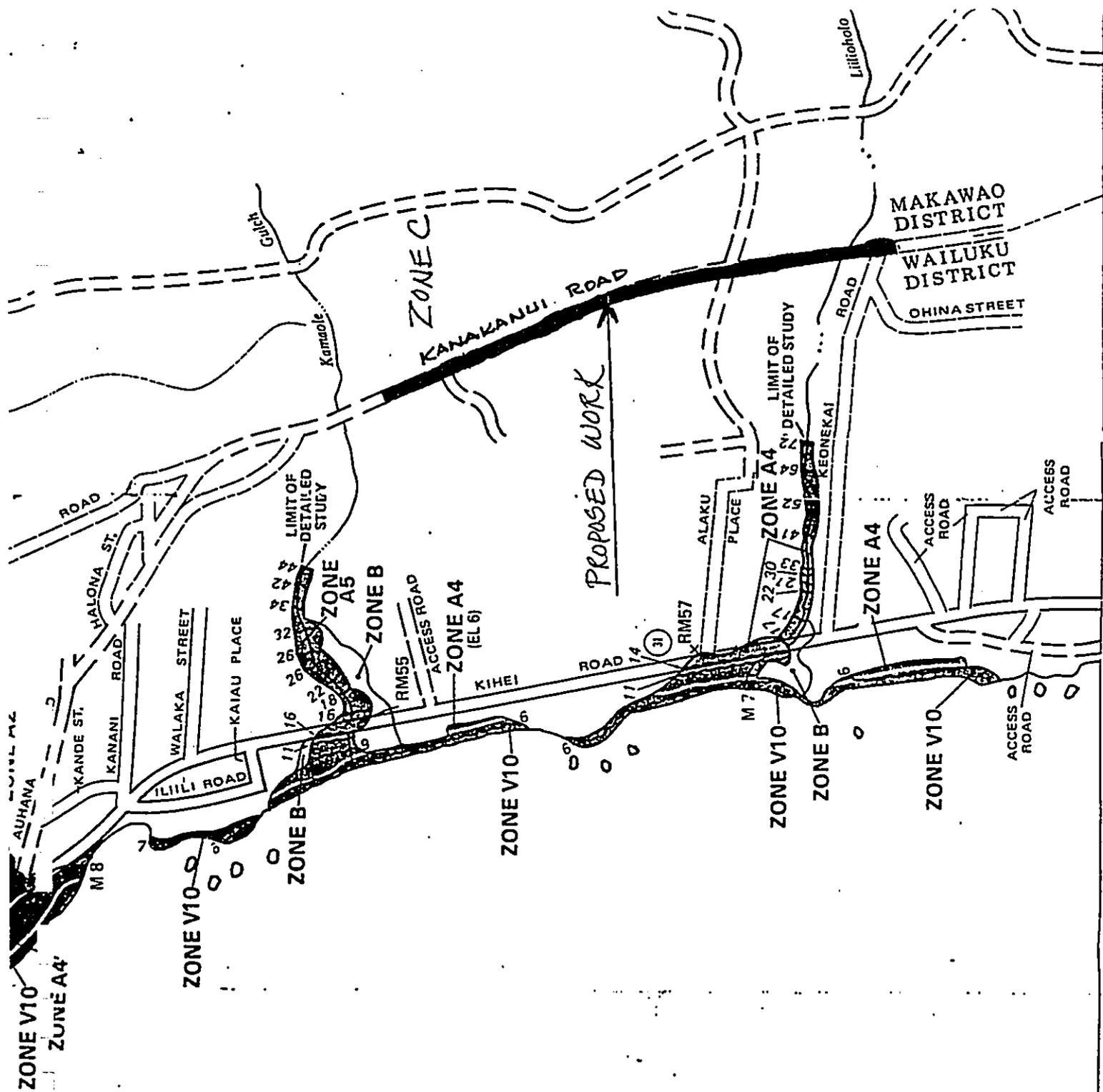
COMMUNITY-PANEL NUMBER
150003 0265 C

MAP REVISED:
SEPTEMBER 6, 1989



Federal Emergency Management Agency

FLOOD INSURANCE RATE MAP
FIGURE 4



FLOOD INSURANCE RATE MAP
KAKANUI ROAD AREA
FIGURE 4-A

Project, the Historic Preservation Division of the Department of Land and Natural Resources and the County of Maui Planning Department will be notified.

Air Quality

Temporary adverse impacts on air quality will occur during the project's construction period. Heavy construction equipment will produce dust and airborne exhaust particulates. These short term impacts will be reduced through the use of approved mitigative measures discussed in Section VI.

Long term impact on air quality is not expected to increase beyond what is being experienced in the Kihei area presently. Most of the Kihei area airborne particulates (automobile exhaust, dust and smoke) are dissipated and dispersed by prevailing tradewinds.

Noise Impact

Temporary noise impact will also occur during the construction of the proposed project. Noise impact created by road paving equipment, graders, rollers, trucks and other construction equipment can be minimized through the use of approved mitigative measures required of the contractor.

Traffic Circulation

Traffic circulation on Kananui Road will improve with the completion of the project. Travel lane width will be increased and the blind one-lane curve at the Lilioholo Gulch crossing area will be realigned to provide for a safer crossing.

V. MAJOR IMPACTS AND ALTERNATIVES

Major Impacts

No major impacts are anticipated as a result of this proposed road improvement project. Temporary short-term adverse impacts on the area's visual

character, air quality, ambient noise level and traffic circulation will occur during the project's construction period. Mitigative measures to reduce these short-term construction related impacts are addressed in Section VI of this environmental assessment.

Alternatives

No Action Alternative

The no action alternative would not be a viable alternative. The objective of the proposed project is to improve Kananui Road to provide a safer roadway for vehicles and pedestrian passage. No action will not serve or benefit the general public.

Improve Entire Length of Roadway Alternative

Initial plans of the County was to improve Kananui Road to its intersection with Alaku Place. However, due to the pending construction of Road "F" by the KOAHE Limited Partnership, additional construction funds were made available to improve Kananui Road to the Road "F" intersection. Funding to improve the remainder of Kananui Road may be available in the near future.

VI. MITIGATING MEASURES

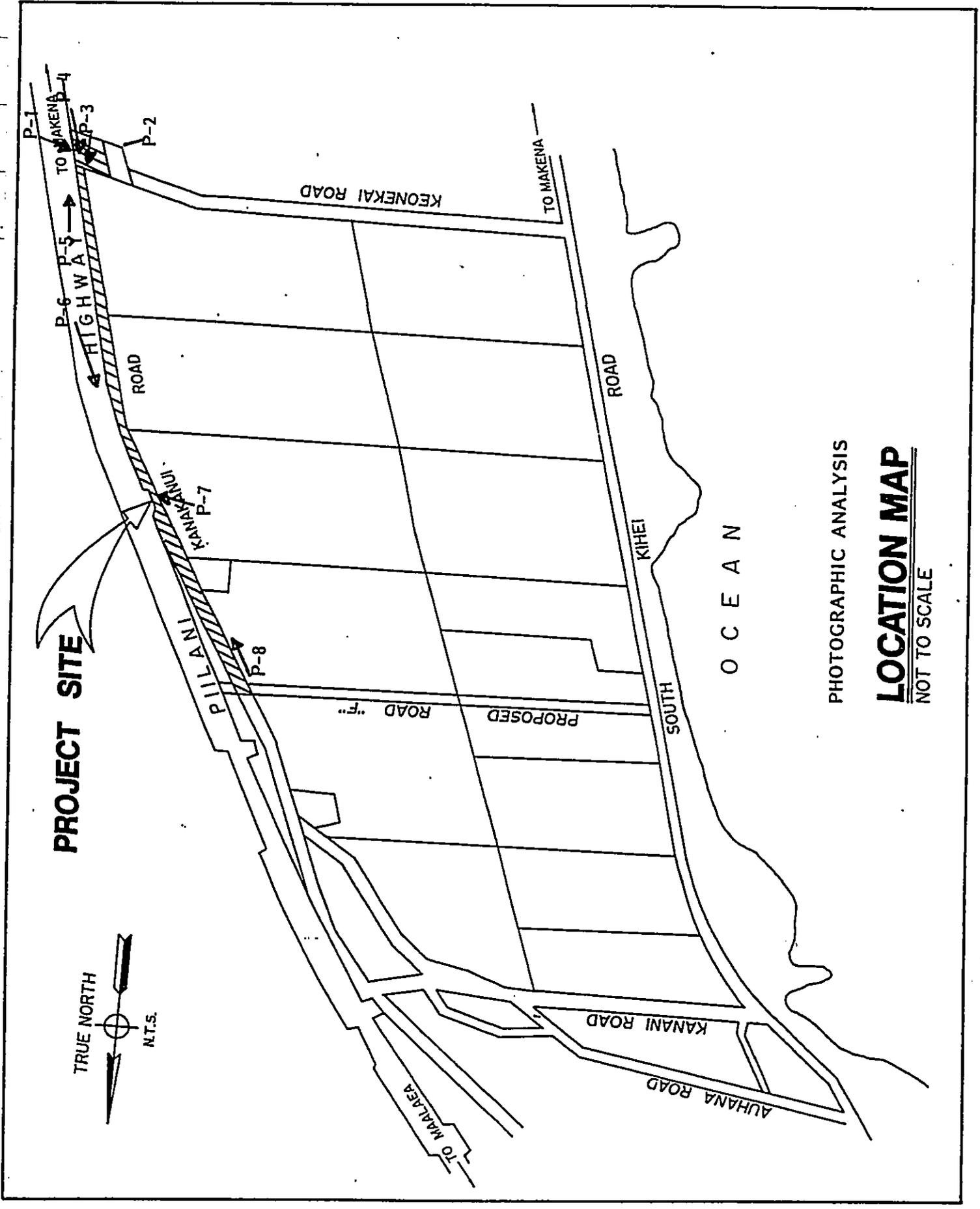
Impacts generated by the proposed project will be construction related and short-term. These temporary construction impacts are dust, noise, erosion and traffic.

To minimize air quality impacts caused by dust generated during grading, grubbing, utility and roadway construction, water wagons will be utilized by the contractor.

Ambient noise levels will be impacted by construction equipment work on the project. Construction activity will be limited to normal daylight working hours to minimize noise problems.

The use of traffic control devices, flagmen and off-duty police officers will control vehicular movement for the duration of the project.

**PHOTOGRAPHIC ANALYSIS
KANAKANUI ROAD IMPROVEMENT PROJECT**



PHOTOGRAPHIC ANALYSIS

LOCATION MAP

NOT TO SCALE



PHOTO P-1 KEONEKAI ROAD APPROACHING KANAKANUI ROAD
Keonekai Road (looking west) approach to Kanakanui Road on right.



PHOTO P-2 KEONEKAI ROAD - KANAKANUI ROAD INTERSECTION
Keonekai Road eastbound and Kanakanui Road at left of photo. Pili Highway in background.



PHOTO P-3 **KANAKANUI ROAD ENTRY FROM KEONEKAI ROAD**
Blind curve leading to one-lane road crossing at Lilioholo Gulch. Culverts under Piilani Highway in background. Keonekai Road to be re-aligned in this area.

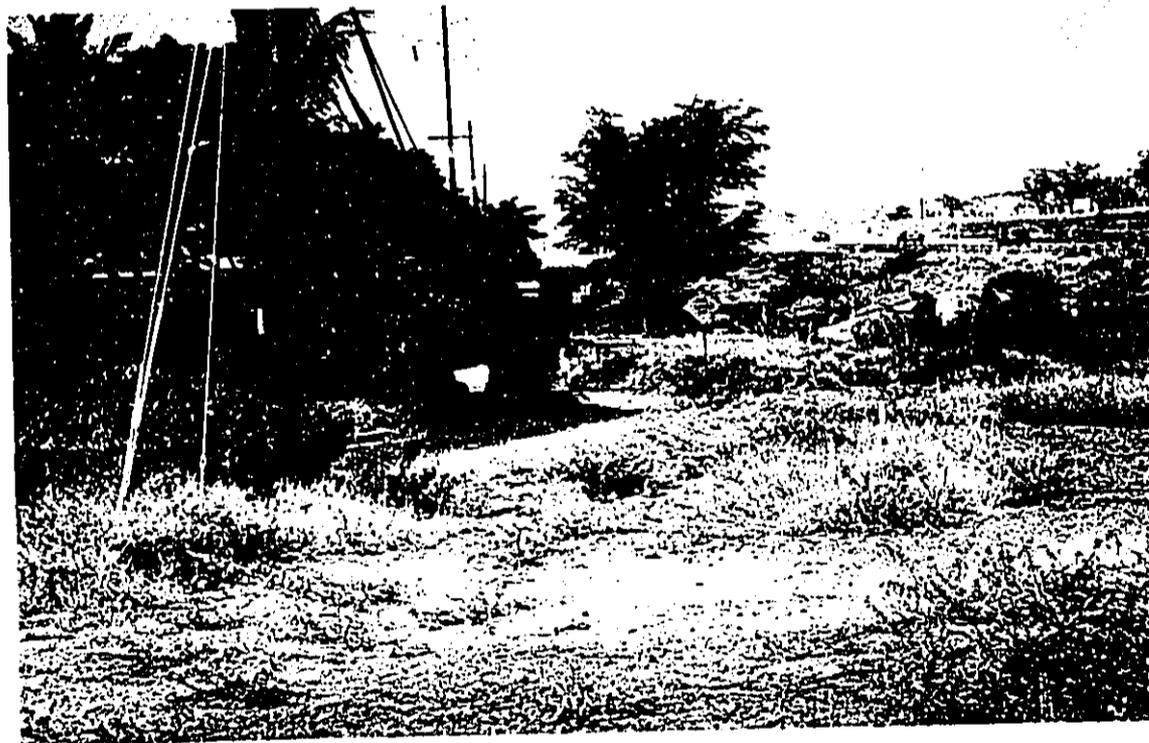


PHOTO P-4 **KEONEKAI ROAD AREA OF REALIGNMENT**
Proposed realignment area to eliminate blind curve. Concrete apron will be constructed at the Lilioholo Gulch crossing in the background.



PHOTO P-5 KANAKANUI ROAD - LIILIOHOLO GULCH CROSSING
Photo shows one-lane road and dip at Lilioholo Gulch crossing and culverts. Roadway will be widened and concrete apron constructed at crossing.



PHOTO P-6 KANAKANUI ROAD
Photo of existing condition of Kananui Road. Pili Highway right side of photo. Looking north. Kananui Road will be widened to provide for two twelve-foot vehicular travel lanes and six-foot paved shoulders.



PHOTO P-7

EXISTING CULVERTS UNDER KANAKANUI ROAD

The two 32-inch culverts shown will be replaced with two 72-inch culverts. The open channel from the two 72-inch culverts from Piilani Highway to Kananui Road will remain as existing.



PHOTO P-8

KANAKANUI ROAD

Looking south from proposed area of intersection with Road "F" and second Kihei School site. End of Kananui Road Improvements Project.

REASONS SUPPORTING DETERMINATION

FINDINGS AND REASONS SUPPORTING DETERMINATION

The following findings and reasons support the determination that the Kananui Road Improvement Project will not have a significant effect on the environment.

1. Adverse impacts associated with the proposed project are temporary and short-termed. Construction activities are limited to minimal grading and earthwork. All short-term impacts such as dust and windblown emissions will be *mitigated and minimized in accordance with applicable County and State regulations*. All construction activities will occur during normal daylight working hours.
2. No rare or endangered flora or fauna will be affected by the proposed project.
3. No known archaeological, cultural or historical sites are located on the proposed project limit. Should any archaeological discoveries occur during construction work, the Department of Land and Natural Resources, Historic Preservation Office and the County Planning Department will be notified and appropriate measures will be taken.

DETERMINATION

This environment assessment shows that the proposed project is expected to have no significant adverse impact on the environment and an Environmental Impact Statement is not required. Therefore, in accordance with the provisions of Chapter 343, HRS, a Negative Declaration is determined to be in order.

REFERENCES

REFERENCES

Austin, Tsutsumi & Associates, Inc., Kihei Traffic Master Plan, prepared for Department of Public Works, County of Maui, October, 1989.

County of Maui, Kihei-Makena Community Plan, July, 1985.

Land Study Bureau, University of Hawaii, Detailed Land Classification - Island of Maui, 1967.

Michael T. Munekiyo Consulting, Inc., Draft Environmental Assessment, Road "F"/Kamaole Heights, prepared for KOAHE Limited partnership, October, 1993.

Soils International, Report Soils Investigation Proposed Kananui Road Improvements, Kihei Maui, Hawaii, prepared for Otomo Engineering, October 14, 1994.

U. S. Department of Agriculture, Soil Conservation Service, Soil Survey of Islands of Kauai, Oahu, Maui, Molokai, and Lanai, State of Hawaii, 1972.