Keange Baseyard Renovations

BZNJAMIN J. CAYETANO GOVERNOR



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MARY PATRICIA WATERHOUSE ACTING DUGGOGGERINGLESS

STATE OF HAWAII

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DEPARTMENT OF ACCOUNTING AND GENERAL SERVICES

. LETTER НО. PM-1060.8

P. O. BOX 119, HONOLULU, HAWA'I 90810

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

Dear Mr. Gill:

Subject:

Department of Transportation - Maui District

Keanae Baseyard Renovations D.A.G.S. Job No. 25-29-7632 TMK: 1-1-02:por. 9 and 1-1-02:10

In accordance with the provisions of Chapter 343, Hawaii Revised Statutes, and Title 11, Chapter 200 of the Administrative Rules of the State Department of Health, a Supplemental Final Environmental Assessment has been prepared for the proposed project. Notice of the availability of the Supplemental Draft Environmental Assessment for the project was published in the February 8, 1998, edition of the Environmental Notice.

As the approving agency, the Department of Accounting and General Services believes that there will be no significant impacts as a result of the proposed action and, accordingly, is filling a Findings of No Significant Impact (FONSI).

Enclosed are one (1) copy of the OEQC Publication form and four (4) copies of the Supplemental Final Environmental Assessment. Also, please note that the Project Summary will be transmitted to you under separate cover via e-mail. We respectfully request that notice of the availability of the

Mr. Gary Gill Letter No. PM-1060.8 Page 2 MR 1 9 1996

Supplemental Final Environmental Assessment be published in the next edition of the Environmental Notice.

Very truly yours,

GORDON MATSUOKA
Public Works Administrator

EN/si Encl.

CC:

Bob Siarot, Department of Transportation (w/o encl.)
Jun Sakauye, Thomas Agawa & Associates (w/o encl.)
Harvey Hida, Hida, Okamoto & Associates, Inc. (w/o encl.)
Glenn Tadaki, Munekiyo, Arakawa & Hiraga, Inc. (w/o encl.)

1998-04-08-MA-FEA-Keanae Baseyard FILE COPY
Renovations

# Supplemental Final Environmental Assessment

# KEANAE BASEYARD RENOVATIONS

Prepared for

State of Hawaii Department of Accounting and General Services March 1998



# Supplemental Final Environmental Assessment

# KEANAE BASEYARD RENOVATIONS

Prepared for

State of Hawaii
Department of Accounting
and General Services

March 1998



# CONTENTS

Preface			
1.	PRO	JECT OVERVIEW	1
<u> </u>	Α.	BACKGROUND	1
	В.	PROPOSED ACTION	2
II.	AFF	ECTED ENVIRONMENT	5
	Α.	FLOOD AND COASTAL HAZARDS	5
	В.	FLORA, FAUNA, AND WETLANDS	5
	C.	AIR AND NOISE QUALITY	5
	D.	SCENIC AND OPEN SPACE RESOURCES	5
	E.	CULTURAL RESOURCES	5
	F.	PUBLIC SERVICES	6
	G.	INFRASTRUCTURE	6
111.		ATIONSHIP TO GOVERNMENTAL PLANS, POLICIES,	8
IV.	ALTERNATIVES TO THE PROPOSED ACTION		9
V.	IRREVERSIBLE AND IRRETRIEVABLE COMMITMENT OF RESOURCES		10
VI.	FIN	DINGS AND CONCLUSIONS	11
VII.	DU	ENCIES, ORGANIZATIONS, AND INDIVIDUALS CONSULTED RING THE PREPARATION OF THE SUPPLEMENTAL DRAFT VIRONMENTAL ASSESSMENT	15

		-	
VIII.	LETTERS RECEIVED DURING THE SUPPLEMENTAL		
	DRAFT ENVIRONMENTAL ASSESSMENT PUBLIC		
	COMMENT PERIOD AND RESPONSES TO SUBSTANTIVE COMMENTS		
IX.	LIST OF PERMITS AND APPROVALS 2		
REFE	RENCES	:	
LIST	OF APPENDICES	-	
	A Preliminary Drain	age Report (October 1997)	
	B Site Photographs	and Photo Reference Map	
		rl Stoner, Jr. dated October 21, 1997 commenting y Drainage Report (October 1997)	
Figur	e 1 Regional Location	n Map	

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### **Preface**

The State Department of Accounting and General Services (DAGS) is proposing modifications to the drainage system improvements which were originally proposed in connection with the redevelopment of the existing State Highways Division baseyard identified by TMK 1-1-02:10 in Keanae, Maui, Hawaii. With the exception of the proposed drainage system modifications, no other changes to the scope of the project are proposed.

The proposed action involves the use of State lands and funds and represents a change in the scope of the project's originally proposed drainage system improvements. Pursuant to Chapter 343, Hawaii Revised Statutes (HRS), and Chapter 200 of Title 11, Hawaii Administrative Rules pertaining to Environmental Impact Statement Rules, this Supplemental Environmental Assessment (EA) documents the technical characteristics and environmental impacts associated with the proposed action and advances findings and conclusions relative to the significance of this action.

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# Chapter I

Project Overview

## I, PROJECT OVERVIEW

### A. BACKGROUND

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A Final Environmental Assessment (EA) and Findings of No Significant Impact (FONSI) for the Keanae Baseyard Renovation project was published in the April 8, 1997 edition of the Environmental Notice.

The proposed action also requires a Special Management Area Use Permit and a State Land Use Commission Special Use Permit. During the processing of these applications, concerns were raised regarding the drainage system discharge characteristics proposed by the original drainage improvements. (The original drainage improvements proposed the conveyance of stormwater to an undeveloped State-owned parcel located makai of Keanae Homestead Road.) Towards addressing these issues, the State Department of Accounting and General Services (DAGS) conducted additional drainage systems evaluations, identifying a drainage system concept which conveyed flows through the neighboring YMCA property. The "YMCA" option was deemed to be technically feasible and was subsequently selected.

While the other components of the project have remained unchanged, the proposed action represents a change in the scope of the project's original drainage system improvements. Accordingly, this Supplemental EA focuses on the proposed drainage system modifications and examines potential impacts and appropriate mitigation measures related to this action.

In addition, this Supplemental EA incorporates the Final EA for the redevelopment project by reference and does not address elements of the project which remained unchanged.

#### B. PROPOSED ACTION

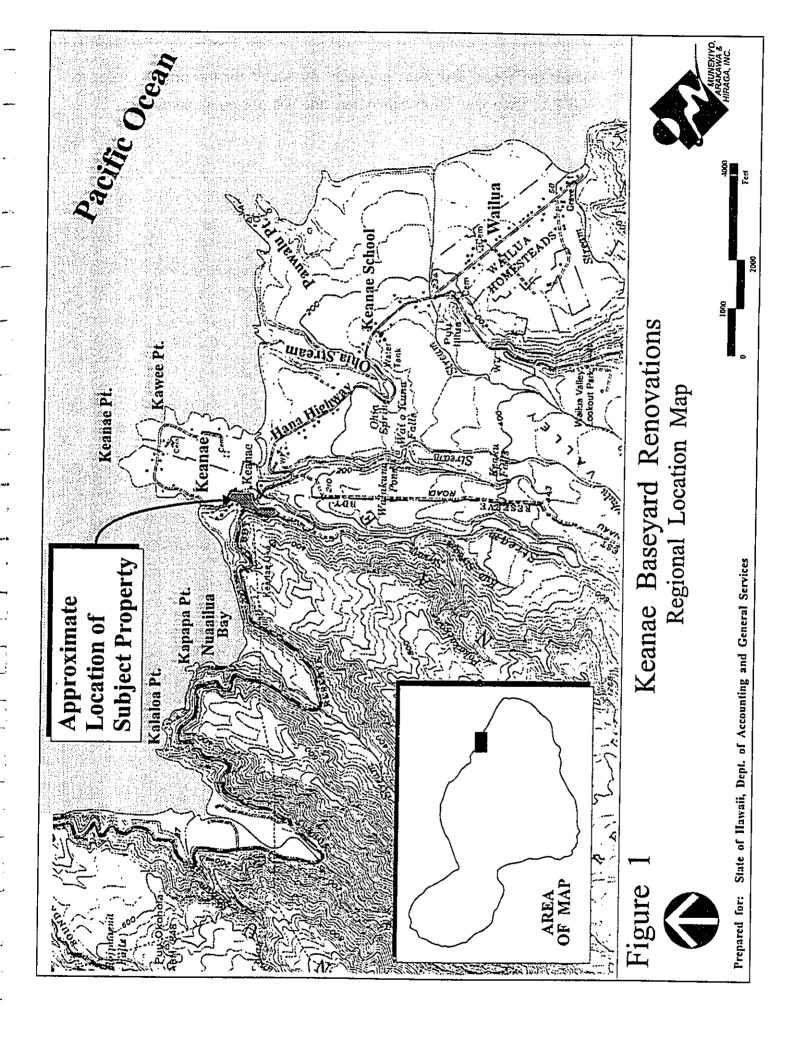
The applicant and approving agency, the State Department of Accounting and General Services (DAGS), is proposing to modify the drainage system improvements that were originally proposed in connection with the redevelopment of the existing State Highways Division baseyard in Keanae, Maui, Hawaii. Owned by the State of Hawaii and identified by TMK 1-1-02:10, this approximately 3.1-acre parcel is occupied by the Keanae Baseyard and is under the control and management of the State Department of Transportation (DOT). See Figure 1.

The proposed drainage system modifications are anticipated to further improve existing drainage conditions in the area, including minimizing the effects of offsite runoff from the adjoining Hana Highway. The proposed drainage system will involve the construction of a new drainline, inlets, and a headwall located on an adjoining State-owned parcel (TMK: 1-1-02: 09) encompassing about 7.7 acres which is leased to the YMCA and occupied by Camp Keanae. See Appendix A and Appendix B.

Onsite, as well as offsite stormwater runoff will be collected by an enlarged Hana Highway drain inlet, and will be conveyed by a new 30-inch underground drainline which runs along the YMCA's existing service road and across an open, grassed area. Current runoff generated by the YMCA site will be collected by three (3) new inlets connecting to the new drainline along the service road. Onsite and offsite runoff will then be discharged by a new headwall located on a lower portion of the YMCA site into a natural, vegetated drainage area where it will either percolate into the ground or evaporate.

Due to these modifications, the drainline along Keanae Homestead Road and the headwall situated on a State-owned parcel makai of the

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Homestead Road that were originally proposed for the project (refer to Final EA) have now been eliminated and will not be implemented.

# Chapter II

Affected Environment

## II. AFFECTED ENVIRONMENT

Potential impacts to the physical and socio-economic environment, public services, and infrastructure, as well as appropriate mitigation measures were described in the Final EA for the Keanae Baseyard Renovation project. This section therefore examines the affected components of the environment relative to the proposed modified drainage improvements.

### A. FLOOD AND COASTAL HAZARDS

The area encompassed by the proposed action is located within Zone C, an area of minimal flooding.

### B. FLORA, FAUNA, AND WETLANDS

There are no rare, endangered, or threatened species of flora, fauna, avifauna or wetlands located within the limits of the proposed action.

#### C. AIR AND NOISE QUALITY

Construction activities may temporarily affect air and noise quality. However, these impacts will be addressed through the mitigation measures described in the Final EA.

#### D. SCENIC AND OPEN SPACE RESOURCES

The proposed improvements will not encroach into scenic corridors or impact open space resources.

## E. CULTURAL RESOURCES

In correspondence dated January 12, 1998, the State Historic Preservation Division (SHPD) indicated that the area encompassed by the proposed improvements was previously disturbed in connection with the construction of Camp Keanae. Accordingly, no adverse impacts to cultural resources are anticipated. See SHPD comment letter in Chapter

VII. Should any cultural remains be located during construction activities, the mitigation measures described in the Final EA will be implemented.

#### F. PUBLIC SERVICES

The proposed action is not anticipated to impact the service capabilities of police, fire, and emergency medical operations nor is it expected to affect educational or recreational resources.

#### G. INFRASTRUCTURE

Roadway, water, and wastewater systems are not expected to be affected by the proposed action. In connection with the proposed action, a site inspection of Camp Keanae was undertaken by DAGS and YMCA personnel on August 6, 1997 to review the area encompassed by the proposed drainage system modifications. In addition, a copy of the Preliminary Drainage Report (refer to Appendix A) was also provided to the YMCA for review and comments. See Appendix C.

Based on a 50-year, one-hour storm, existing stormwater runoff from the project area is approximately 4.12 cubic feet per second (cfs), while post-development runoff is projected to be about 8.70 cfs, an increase of approximately 4.58 cfs. Refer to Appendix A. This increase in runoff, which is attributable to impermeable surface areas, will be mitigated with the underground installation of 200 linear feet of perforated drainline on the baseyard site.

The proposed action is anticipated to improve existing drainage conditions in the area by effectively accommodating the project's onsite runoff, as well as minimize the effects of erosion and standing water from stormwater ponding at the curve of Hana Highway and sheetflowing onto the baseyard and YMCA sites.

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The proposed improvements will be designed in accordance with applicable regulatory standards to ensure that adjoining and downstream properties are not adversely impacted by stormwater runoff.

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# Chapter III

Relationship to Governmental Plans, Policies, and Controls

# III.—RELATIONSHIP TO GOVERNMENTAL PLANS, POLICIES, AND CONTROLS

The land underlying the proposed drainage system modifications is designated "Agricultural" by both the State Land Use Commission and the Hana Community Plan, and "Interim" by Maui County zoning. Permitted uses within the Interim District include publicly owned facilities. As described in the Final EA, the proposed action is in keeping with the objectives and policies of the Maui County Special Management Area (SMA).

# Chapter IV

Alternatives to the Proposed Action

## IV. ALTERNATIVES TO THE PROPOSED ACTION

Drainage system alternatives previously examined in connection with the Keanae Baseyard Renovation project included a detention basin along the eastern extent of the project site, as well as the drainline and headwall described in the project's Final EA. The detention basin was eliminated from consideration due to concerns regarding slope stability in the area, while the drainline and headwall were discounted due to concerns regarding the stormwater discharge characteristics associated with this system.

The proposed action represents a preferred alternative to the drainage system improvements which were previously examined since existing drainage conditions in the area will be further improved. The modified drainage concept will effectively accommodate onsite and offsite runoff and mitigate the effects of ponding and erosion caused by stormwater collecting along Hana Highway and sheetflowing onto the baseyard and YMCA sites.

The "no action" alternative is not considered a viable option since the effects of stormwater runoff from Hana Highway will continue to impact the YMCA site.

The "deferred action" alternative will have similar consequences as the "no action" alternative in that this alternative could result in potentially higher development costs due to increases in labor and material costs.

# Chapter V

Irreversible and Irretrievable Commitment of Resources

# V. IRREVERSIBLE AND IRRETRIEVABLE COMMITMENT OF RESOURCES

The proposed drainage system modifications will involve the use of State funds and lands for improvements which will provide for stormwater runoff to be effectively managed and accommodated. There are no other irreversible and irretrievable commitment of resources anticipated.

# Chapter VI

Findings and Conclusions

## VI. FINDINGS AND CONCLUSIONS

Every phase of the proposed action have been evaluated in accordance with the <u>Significance Criteria</u> of Section 11-200-12 of the Administrative Rules. Based on the analysis, it has been determined that the proposed action will not result in any significant impacts. Discussion of project conformance to the criteria is noted as follows:

## 1. No irrevocable commitment to the loss or destruction of any natural or cultural resource would occur as a result of the proposed project

The proposed action will not result in any adverse environmental impacts. There are no known, rare, endangered or threatened species of flora, fauna, avifauna or wetlands located within the limits of the proposed drainage system modifications.

The area encompassed by the proposed drainage system improvements was previously disturbed in connection with the development of Camp Keanae. Accordingly, no adverse impacts to cultural resources are anticipated.

## 2. <u>The proposed action would not curtail the range of beneficial uses of the environment</u>

The proposed drainage system modifications will not affect or limit uses of the environment.

# 3. The proposed action does not conflict with the State's long-term environmental policies or goals and guidelines as expressed in Chapter 344, Hawaii Revised Statutes

The State Environmental Policy and Guidelines are set forth in Chapter 344, Hawaii Revised Statutes (HRS) and were reviewed in connection

with the proposed project. The proposed action is in consonance with the State's long-term environmental policies and goals of Chapter 344, HRS.

## 4. The economic or social welfare of the community or State would not be substantially affected

The proposed action is intended to improve existing drainage conditions in the area.

The economic and social welfare of the community will not be affected by the proposed action.

## 5. The proposed action does not affect public health

No impacts to the public's health and welfare are anticipated as a result of the proposed action.

# 6. No substantial secondary impacts, such as population changes or effects on public facilities, are anticipated

The proposed action will not affect the Island's population base or place new demands on the Island's public facilities.

## 7. No substantial degradation of environmental quality is anticipated

During construction, appropriate environmental mitigation measures (as described in the Final EA) will be used to ensure that adverse environmental effects are minimized. Such effects are anticipated to be limited to temporary construction-related effects. Accordingly, no substantial degradation of environmental quality resulting from the proposed action is anticipated.

8. The proposed action does not involve a commitment to larger actions, nor would cumulative impacts result in considerable effects on the environment

The proposed modifications to the project's drainage system is not part of a larger action and will not create any significant long-term impacts.

9. No rare, threatened or endangered species or their habitats would be adversely affected by the proposed action

There are no rare, threatened or endangered species of flora, fauna, avifauna or their habitats located within the limits of the proposed drainage system modifications.

10. Air quality, water quality or ambient noise levels would not be detrimentally affected by the proposed project

Construction activities for the proposed project will result in short-term air quality and noise impacts. Appropriate dust control measures (e.g., water application to freshly graded areas, temporary grassing) will be implemented by the contractor to ensure that fugitive dust generated in connection with construction is minimized.

In the long term, the project is not anticipated to have a significant impact on air or noise quality. Additionally, water quality in the immediate area is not anticipated to be adversely affected by the proposed action.

11. The proposed project would not affect environmentally sensitive areas, such as flood plains, tsunami zone, beach, erosion-prone areas, geologically hazardous lands, estuaries, fresh waters or coastal waters

The area encompassed by the proposed drainage system modifications is not located within and would not affect environmentally sensitive areas. This area is not within the limits of a flood plain or tsunami inundation and

the underlying soils are not erosion-prone. There are no geologically hazardous lands, estuaries, or coastal waters within or adjacent to the limits of the proposed action.

# 12. The proposed project does not substantially affect scenic vistas and viewplanes identified in County or State plans or studies.

The proposed action will not adversely affect scenic vistas and viewplanes.

## 13. Does the proposed project require substantial energy consumption

The proposed action involves the installation of drainage system improvements and, therefore, will not require substantial energy consumption activities.

Based on the foregoing findings, it is concluded that the proposed action will not result in any significant impacts.

# Chapter VII

Agencies, Organizations, and Individuals Consulted During the Preparation of the Supplemental Draft Environmental Assessment

# VII. AGENCIES, ORGANIZATIONS, AND INDIVIDUALS CONSULTED DURING THE PREPARATION OF THE SUPPLEMENTAL DRAFT ENVIRONMENTAL ASSESSMENT

The following agencies, organizations, and individuals were consulted during the preparation of the Supplemental Draft Environmental Assessment. Comments received and responses to substantive comments are also included in this section.

- Don Hibbard, Administrator
   State of Hawaii
   Department of Land and Natural
   Resources
   State Historic Preservation Division
   33 South King Street, 6th Floor
   Honolulu, HI 96813
- 2. Gary Gill, Director
  State of Hawaii
  Office of Environmental Quality
  Control
  235 South Beretania Street,
  Suite 702
  Honolulu, Hawaii 96813
- 3. David W. Blane, Director County of Maui Department of Planning 250 South High Street Walluku, HI 96793
- 4. Charles Jencks, Director
  County of Maui
  Department of Public Works
  and Waste Management
  200 South High Street
  Wailuku, HI 96793
- Charles Knoebel, Executive Director Maui Family YMCA 250 Kanaloa Avenue Kahului, HI 96732
- Gladys and Issac Kanoa P.O. Box 330973 Kahului, HI 96732-0973

- 7. Dr. William Kepler 53 Puunene Avenue Kahului, Hl 96732
- 8. Elaine Wender SR 93 Keanae Haiku, HI 96708



December 4, 1997

Munekiyo & Arakawa, INC. 305 High Street, Suite 104 Wailuku, Hawaii, 96793

SUBJECT:

Keanae Baseyard - Drainage System Modifications

Keanae, Maui, Hawaii; TMK 1-1-02: 10

Dear Mr. Tadaki:

In reviewing the currant Project Summary for the Maui Family YMCA, the input we can offer is the same as in the past. Please be advised that the Maui Family YMCA supports this project in its entirety. The revised plan which provides for a 30 inch covered drain line with 12 and 24 inch tributaries and inlet boxes both on the DOT Baseyard property as well as the YMCA Camp Keanae property, will result in a substantial improvement over the previously planned surface drainage for this project.

The project will have the benefit of alleviating the standing drainage waters at the curve on Hana Highway fronting these two properties and will further minimize erosion and standing water, which has plagued both properties historically.

We support the project and will work closely with the design engineers and contractor to assure an efficient and speedy installation of this drainage facility.

Sincerely,

Terry Maly
Associate Director, Properties

Maui Family YMCA

LINDA CROCKETT LINGLE
Mayor
CHARLES JENCKS

Director

DAVID C. GOODE
Deputy Director



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** 

BRIAN HASHIRO, P.E. Highways Division

Solid Waste Division

# COUNTY OF MAUI DEPARTMENT OF PUBLIC WORKS AND WASTE MANAGEMENT

200 SOUTH HIGH STREET WAILUKU, MAUI, HAWAII 96793

December 22, 1997

Mr. Glenn Tadaki Munekiyo & Arakawa, Inc. 305 High Street, Suite 104 Wailuku, Hawaii 96793

Dear Mr. Tadaki:

SUBJECT: EARLY CONSULTATION

**KEANAE BASEYARD - DRAINAGE SYSTEM IMPROVEMENTS** 

STATE DEPARTMENT OF TRANSPORTATION

We reviewed the subject submittal and have the following comments.

1. A detailed and final drainage report and a Best Management Practices Plan (BMP) will be required to be submitted and approved with the grading plans prior to approval of grading permits. The drainage report should include hydrologic and hydraulic calculations and the schemes for disposal of runoff waters. It must comply with the provisions of the "Rules for Design of Storm Drainage Facilities in the County of Maui" and should provide verification that the grading and runoff water generated by the project will not have an adverse effect on adjacent and downstream properties. The BMP plan shall show the location and details of structural and non-structural measures to control erosion and sedimentation to the maximum extent practicable.

If you have any questions, please call David Goode at 243-7845.

incerek

CHARLES JENCKS
Director of Public Works
and Waste Management

DG:co/mt

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kc: Engineering Division

Highways Division

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January 6, 1998

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Charles Jencks, Director Department of Public Works and Waste Management County of Maui 200 South High Street Wailuku, Hawaii 96793

> SUBJECT: Keanae Baseyard - Drainage System Modifications Keanae, Maui, Hawaii; TMK 1-1-02: 10

Thank you for your letter of December 22, 1997 concerning the project's proposed drainage system modifications. On behalf of the State Department of Accounting and General Services, we would like to note that the proposed drainage system improvements will be designed in accordance with applicable regulatory design criteria to ensure that stormwater runoff will not have an adverse effect on adjacent and downstream properties. A detailed drainage report and Best Management Practices Plan will also be provided to the Department of Public Works and Waste Management for review and approval in connection with the submittal of grading plans for the proposed improvements.

Thank you again for providing us with your comments.

Very truly yours,

Glenn Tadaki, Planner

GT:tav

cc: Eric Nishimoto, Department of Accounting and General Services Bob Siarot, Department of Transportation Jun Sakauye, Thomas T. Agawa & Associates

Harvey Hida, Hida, Okamoto & Associates, Inc.

Planning • Environmental Studies • Project Management 305 High Street, Suite 104 • Wailuku, Hawaii 96793 • Phone: (808) 244-2015 • Fax: (808) 244-8729

MICHABL D. WILSON, CHAIRFERSON BOARD OF LAND AND NATURAL RESOURCES

GILBERT COLOMA-AGAMA

AQUATIC RESOURCES
CONSERVATION AND

HISTORIC PRESERVATION

WATER AND LAND DEVELOPMENT

DIVISION LAND DIVISION STATE PARKS

LOG NO: 20827 🗸

DOC NO: 9801BD01

CONVEYANCES
FORESTRY AND WILDUFE

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RESOURCES ENFORCEMENT

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#### STATE OF HAWAII

### DEPARTMENT OF LAND AND NATURAL RESOURCES

STATE HISTORIC PRESERVATION DIVISION 33 SOUTH KING STREET, 6TH FLOOR HONOLULU, HAWAII 96813

January 12, 1998

Mr. David Blane, Director Department of Planning 250 South High Street Wailuku, Hawaii 96793

Dear Mr. Blane:

SUBJECT: Chapter 6E-8 Historic Preservation Review of a Revised EA for Drainage

System Modifications at the DAGS Baseyard Keanae Ahupua'a, Hana District, Island of Maui

TMK 1-1-02: 10

This letter is a Historic Preservation review of a revised Environmental Assessment for drainage system modifications at the DAGS baseyard in Keanae Ahupua'a. Our review is based on reports, maps, and aerial photographs maintained at the State Historic Preservation Division; no field check was conducted of the subject property.

The subject property seems likely to have once been the location of pre-Contact agricultural fields and perhaps scattered housing. Twentieth century construction of the present DAGS baseyard, YMCA camp, and associated landscaping has since altered the landscape, making in unlikely that any historic sites remain intact. We therefore find the proposed construction project to have "no effect" on historic sites.

In the event that unrecorded historic remains (i.e. architecture, artifacts, or bones) are inadvertently uncovered during construction along the road, all work should cease in the vicinity and the contractor should immediately contact the State Historic Preservation Division.

If you have any questions please contact Boyd Dixon at 243-5169.

DON HIBBARD, Administrator State Historic Preservation Division

BD:jen

Aloha,

cc. Ralph Nagamine, Maui County Department of Public Works (fax: 243-7972) Glenn Tadaki, Munekiyo and Arakawa Inc (fax: 244-8729)

# Chapter VIII

Letters Received During the Supplemental Draft Environmental Assessment Public Comment Period and Responses to Substantive Comments

## VIII. LETTERS RECEIVED DURING THE SUPPLEMENTAL DRAFT ENVIRONMENTAL ASSESSMENT PUBLIC COMMENT PERIOD AND RESPONSES TO SUBSTANTIVE COMMENTS

The Notice of Availability of the Supplemental Draft Environmental Assessment (EA) appeared in the February 8, 1998 edition of the Environmental Notice. Copies of the Supplemental Draft EA were distributed to the agencies, organizations, and individuals that were consulted during the preparation of the Supplemental Draft EA, as well as the Hana Public and School Library. The 30-day public comment period on the Supplemental Draft EA expired on March 10, 1998.

Pursuant to the requirements of the environmental review process, comments received during the Supplemental Draft EA public comment period and responses to substantive comments are included in this section.

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GARY GILL DIRECTOR

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#### STATE OF HAWAII

### OFFICE OF ENVIRONMENTAL QUALITY CONTROL

235 SOUTH BERETANIA STREET
SUITE 702
HONOLULU, HAWAII 95813
TELEPHONE (808) \$86-4185
FACSIMILE (808) 586-4186

February 26, 1998

Gordon Matsuoka Department of Accounting and General Services P.O. Box 119 Honolulu, Hawaii 96810

Attention: Eric Nishimoto

Dear Mr. Matsuoka:

Subject:

Supplemental Draft Environmental Assessment (EA) for Keanae

**Baseyard Renovations** 

The total project cost is not given. Please disclose all state or county funds involved, including any federal funds flowing through the state or county.

If you have any questions call Nancy Heinrich at 586-4185.

Sincerely,

Director

c: Glenn Tadaki



Gary Gill, Director Office of Environmental Quality Control 235 South Beretania Street, Suite 702 Honolulu, Hawaii 96813

SUBJECT:

Supplemental Draft Environmental Assessment (EA) for Keanae

Basevard Renovations

Dear Mr. Gill:

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Thank you for your letter of February 26, 1998 concerning the proposed project. On behalf of the State Department of Accounting and General Services, we would like to note that the proposed project involves the use of State funds. While the total estimated project cost (referenced in the project's Final EA) remains unchanged at \$1.3 million, construction of the project is now estimated to commence during the second half of 1998.

Thank you again for commenting on the proposed project.

Very truly yours

Glenn Tadaki, Planner

GT:tav

cc: Eric Nishimoto, Department of Accounting and General Services

Jun Sakauye, Thomas Agawa & Associates Harvey Hida, Hida, Okamoto & Associates Bob Siarot, Department of Transportation

agawa/keanae/gill.003

# Chapter IX

List of Permits and Approvals

### IX. LIST OF PERMITS AND APPROVALS

The following permits and approvals will be required prior to the implementation of the proposed modifications.

#### **County of Maui**

- 1. State Land Use Special Use Permit (SUP)
- 2. Special Management Area (SMA) Use Permit
- 3. Grading Permit
- 4. Building Permit

## References

#### References

Munekiyo & Arakawa, Inc., Final Environmental Assessment, Keanae Baseyard Renovations, March 1997.

# Appendices

# Appendix A

Preliminary Drainage Report (October 1997)

#### PRELIMINARY DRAINAGE REPORT

for

#### D.O.T. MAUI DISTRICT KEANAE BASEYARD Hana, Maui, Hawaii

Tax Map Key: 1-1-02:10 D.A.G.S. Job No. 25-29-7632 HO&A Job No. 94-1059

#### Prepared By:

HIDA, OKAMOTO & ASSOCIATES, INC.

Consulting Engineers

The Commerce Tower Suite 915

1440 Kapiolani Boulevard

Honolulu, Hawaii 96814

October 1997

HRNEY K AIDT

THIS WORK WAS PREPARED BY ME ORUNDER MY SUPERVISION

Signature 10-01-97

D.O.T. MAUI DISTRICT KEANAE BASEYARD Preliminary Drainage Report

#### **GENERAL DESCRIPTION**

The project site is located in Keanae, approximately 500 feet north of the intersection of Hana Highway and Keanae Homestead Road. The location of the project site is shown in Exhibit A. Currently, the project site is occupied by one trailer located near the Hana Highway connection, and gravel parking area and two wooden buildings located in the center of the property, and the majority of the site is covered by heavy vegetation. The existing driveway to the site from Hana Highway will be used as the main two-way driveway.

The subject project will consist of demolition of the existing structures and development of two new structures consisting of an office building and truck storage building. A.C. pavement parking/driveway, landscaping and above-ground fuel/tank and dispenser will also be developed. The total amount of lot coverage by buildings will be approximately 4,380 sq. ft. or little over 3 percent of the 3.096 acre lot. In addition to the building elements, the project will provide approximately 20,600 sq. ft. of paved area for parking and driveway. The total project area will consist of approximately 0.574 acres or 18.5 percent of the lot area.

#### **EXISTING DRAINAGE CONDITION**

The topographic survey map of the existing site and the USGS Keanae Quad Map (7.5 Minute Series) was used to determine the tributary areas for the drainage flow. Analysis was then performed for one-hour for a 50-year storm event.

The tributary areas indicate that the majority of the stormwater runoff sheet flow toward north direction and to the Keanae Homestead Road. The stormwater runoff within the YMCA site sheet flow toward north-west direction and to the sea.

The results of the analysis indicates that there is a total of 4.12 cubic feet per second (cfs) of stormwater runoff from the project area and a total of 34.44 cfs for the tributary area.

#### PROPOSED DRAINAGE CONDITIONS

The proposed layout will retain the basic drainage pattern. As with the existing conditions, the majority of the runoff within the project site will flow toward north direction.

The existing drainage inlet within Hana Highway situated across from the project site will be re-constructed and a new enlarged pipe will be connected to the proposed on-site underground drainage system. The surface runoff generated onsite will be collected by four inlets and directed into the on-site drainage system. The onsite runoff, as well as the

offsite runoff collected by the Hana Highway inlet will then be piped into a new underground drain system which runs along the existing YMCA service road and across an open, grassed area which extends from the service road to a new headwall located on a lower portion of the YMCA property. Existing stormwater runoff generated on the YMCA site will be collected by three new inlets constructed over the new underground drain system. Stormwater will then be discharged at the new headwall located on the lower portion of the YMCA property into a natural depressed area where it will percolate into the ground.

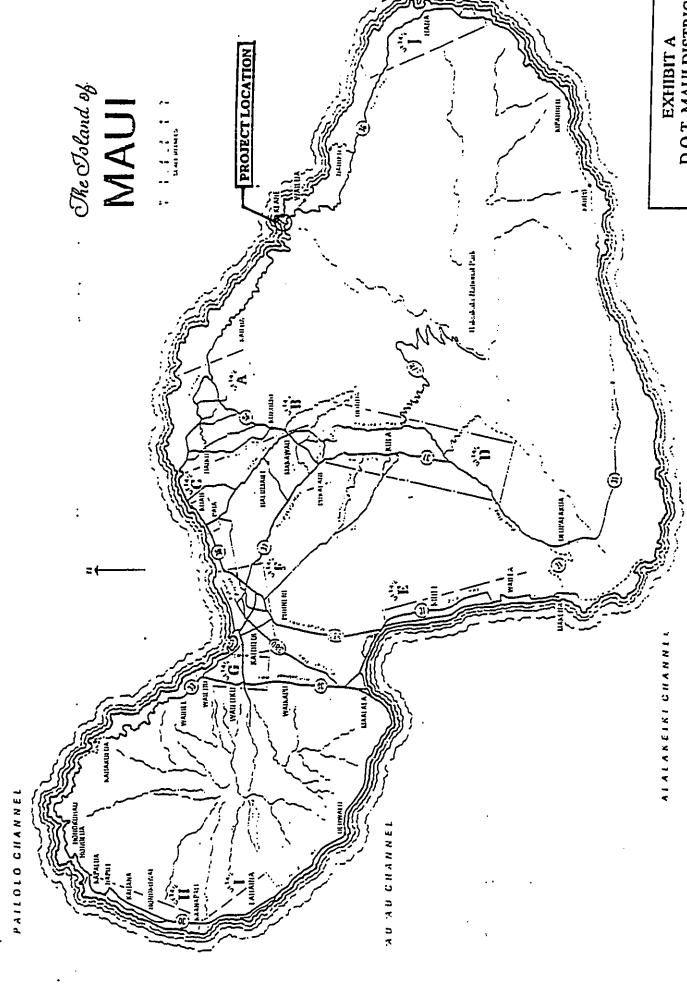
Analysis was performed on the site using the proposed conceptual grading plan to determine the new tributary areas. The results of the analysis for one-hour of a 50-year storm indicates that there will be approximately 8.70 cfs of stormwater runoff generated from the project area, an increase of 4.58 cfs. The total runoff for the entire tributary area will be increased to 41.68 cfs.

#### **ANALYSIS RESULTS**

The project proposes to decrease the area of open space on the site, therefore there will be less permeable area. This decrease in permeability increases the amount of stormwater runoff generated by the project area, thus the overall increase in stormwater runoff. The results of the analysis also indicates, that there will be an increase of 4.58 cfs runoff. This additional runoff due to the increased impermeable surface area will be mitigated by installing approximately 200 lin.ft. of perforated drain pipe for the new drainage system. The required rate of the perforation would be 0.023 cfs/ft which is within the acceptable rate. The new drainage system will convey the stormwater runoff from the tributary areas to a new discharge headwall located on a lower portion of the YMCA property. The runoff from the headwall will then flow into an existing depressed area which acts as a natural detention basin and then percolate into the ground.

#### **CONCLUSION**

There will be an increase in stormwater runoff generated by the development. However, the overall drainage condition of the area will be improved by the construction of the underground drainage system, and since stormwater runoff into down stream properties will be limited to the pre-construction rate, we do not anticipate any adverse effects to downstream properties or the surrounding area.



\*1175 Bessen 1973 1991 Described By the De Copine for reprintation of an whole without the special within promission of SKIPPR PHILIDIA & CATAPHES INC. 240 G Warehn Boach (based

EXHIBIT A
D.O.T. MAUI DISTRICT
KEANAE BASEYARD
Hana, Maui

LOCATION MAP

**RUN-OFF CALCULATIONS** 

HIDA, OKAMOTO & ASSOCIATES, INC.

Project:

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D.O.T. MAUI DISTRICT - KEANAE BASE YARD Hene, Meui Tex Map Key:1-1-02:10

Date: Ву:

10/01/97 HKH/CYO

INLETS DESIGN WORKSHEET

PROPOSED

Tm =	Years One-Hour Rainfall = 6.0 Inches Q=RCIA									
DRAINAGE AREA	Overland Flow Time				R	C		A	1 0	
	Ground Character	Length (Feet)	Slopa (FVFt)	Tc (Min)	Corr Fector	 		(Acres)	(OFS)	
B-1	AC Pavement/Roof	185.	0.030	4.5	2.80	0.91	6.00	0.401	6.13	
B-2	AC Pavement/Roof	130	0.027	5.0	2.70	0.91	6.00	0.154	2.27	
В-3 ∫	Roof	18	0.200	3.0	2.80	0.95	6.00	0.019	0.30	
B-4	Misc. Vegetation	500	0.320	10.5	2.25	0.50	6.00	2.530	17.08	
3.5*	Misc. Vegetation	400	0.200	10.5	2.25	0.50	6.00	0.913	6.16	
3-6*	Misc. Vegetation	400	0.200	10.5	2.25	0.50	6.00	0.548	3.70	
3-7*	Misc. Vegetation	400	0.200	10.5	2.25	0.50	6.00	0.365	2.46	
3-8	Vegetation/A.C.Pavement	500	0,100	7.2	2.55	0.65	6.00	0.360	3.58	
				- !			Totai	5.290	41.68	

<sup>\*</sup> Tributary areas 8-5, 8-6, & 8-7 includes areas 8-1, 8-2, & 8-3 (project areas)

The areas shown for areas 8-5, 8-6, & 8-7 are the effective areas, exclusive of areas 8-1, 8-2, & 8-3.

HIDA, OKAMOTO & ASSOCIATES, INC.

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D.O.T. MAUI DISTRICT - KEANAE BASE YARD Harra, Maui Tax Map Key:1-1-02:10

Date: By:

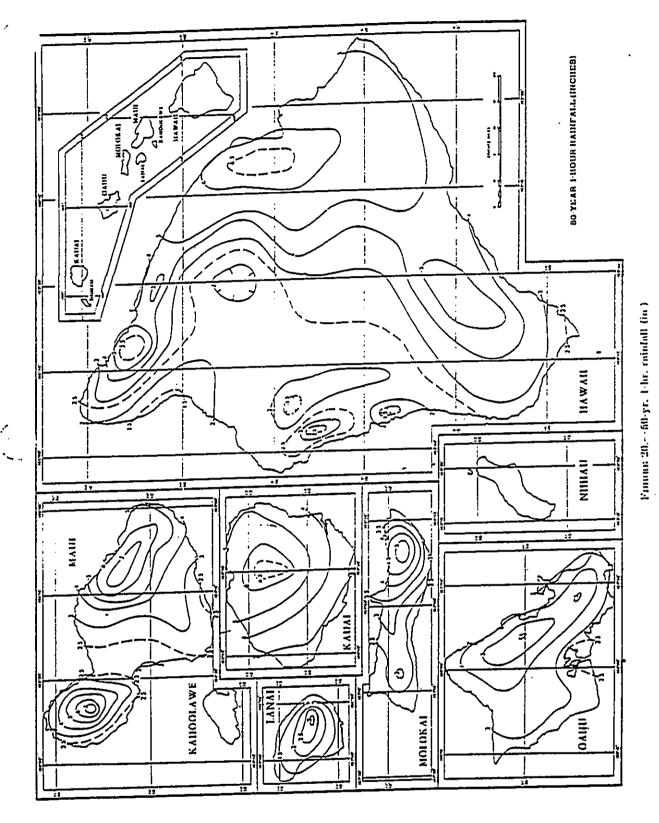
10/01/97 HKH/CYO

INLETS DESIGN WORKSHEET

EXISTING

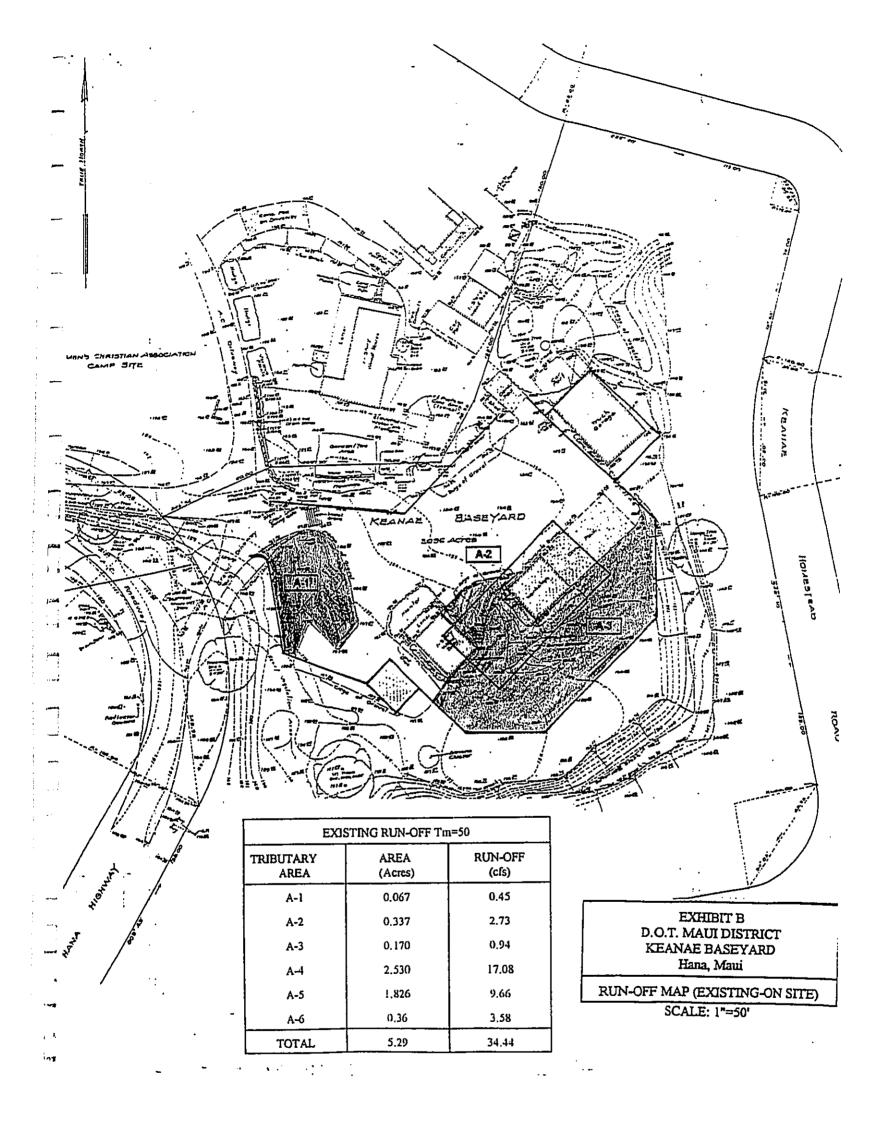
(m=	50 Years	One-Hour Raimail = 6.0 Inches							Q≡RCIA	
DRAINAGE AREA		Overland Flow Time			R	C	,	A	1 0	
	Ground Cherecter	Length (Feet)	Slope (FVF1)	Tc (MIn)	Con Factor			(Acres)	(CFS)	
A-1	Landscape/Trailer	40	0.050	7.5	2.55	0.44	6.00	0.067	0.4	
A-2	Gravel/Roof/Conc.Pad.	175	a.020	10.5	2.25	0.60	6.00	0.337	2.7	
A-3	Lawn	140	0.029	10.2	2.30	0.40	6.00	0.170	0.9	
<b>4-4</b>	Misc. Vegitation	500	0.320	10.5	2.25	0.50	6.00	2.530	17.0	
A-5*	Misc. Vegitation	400	0.200	10.5	2.25	0.50	6.00	1.826	9.6	
-6	Vegitation/A.C.Pavement	500	a. 1 <b>0</b> 0	7.2	2.55	0.65	6.00	0.360	3.5	
							Total	3.464	34.4	

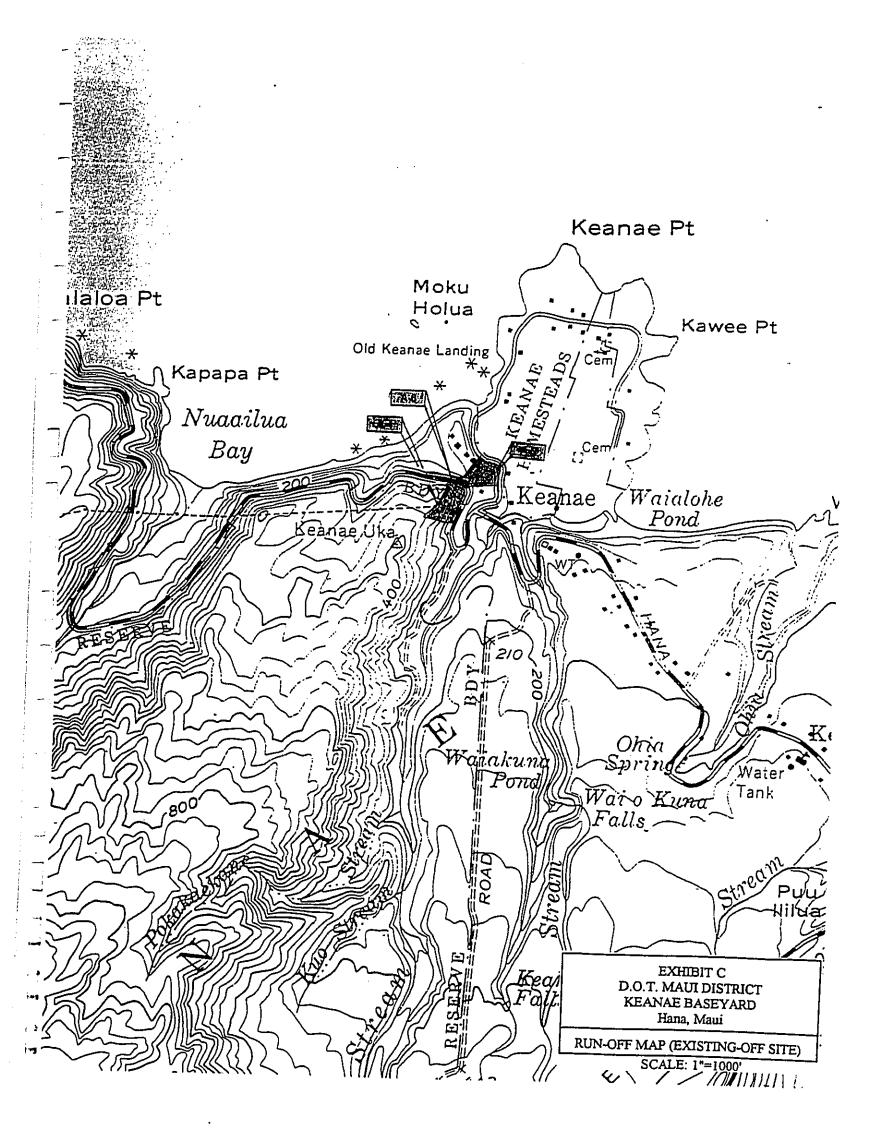
<sup>\*</sup> Tributery area A-5 = 2.4 acres (which includes areas A-1, A-2, A-3) Effective area of A-5 = 1.826 ecres (2.4 acre - (A-1) - (A-2) - (A-3))

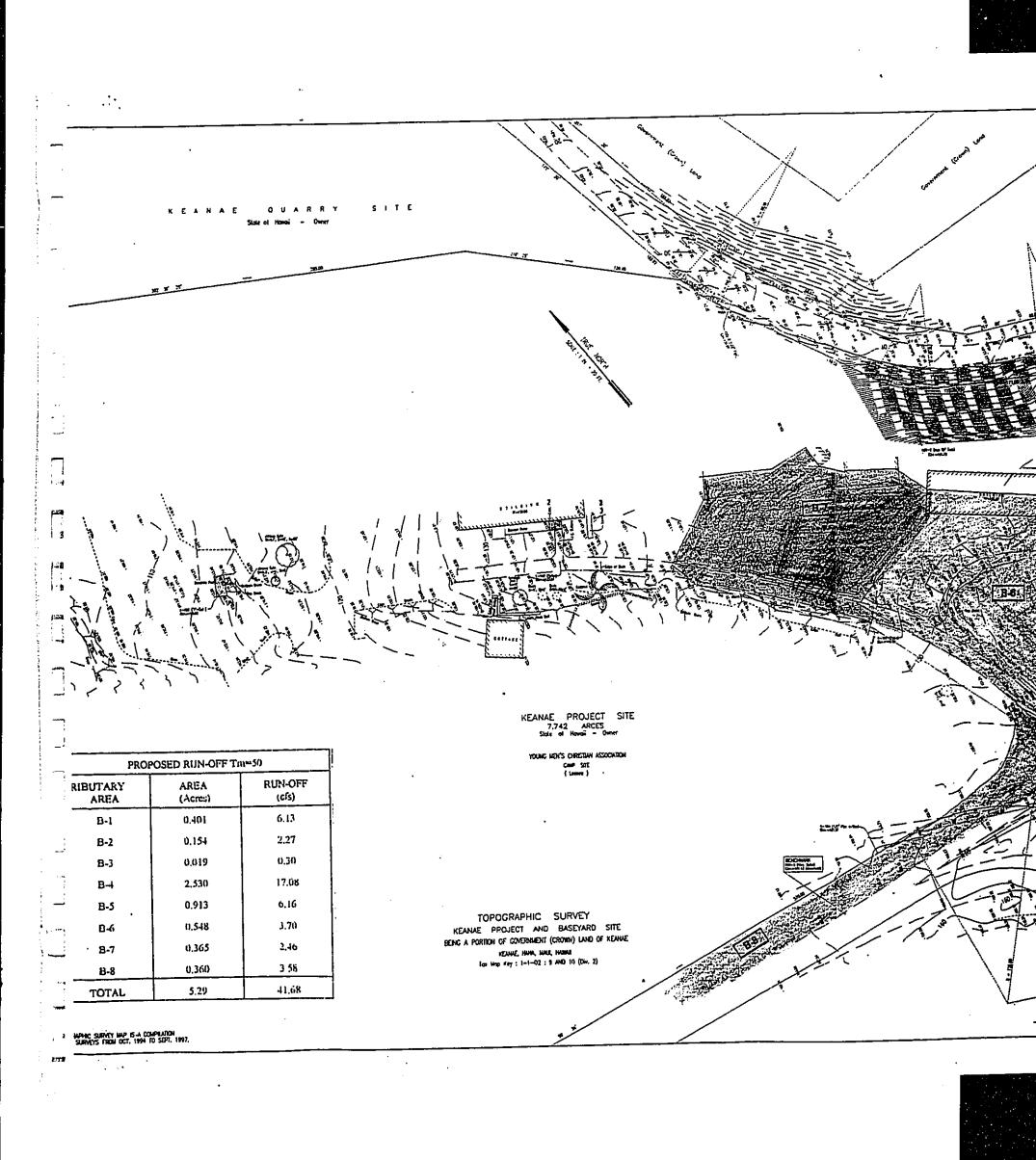


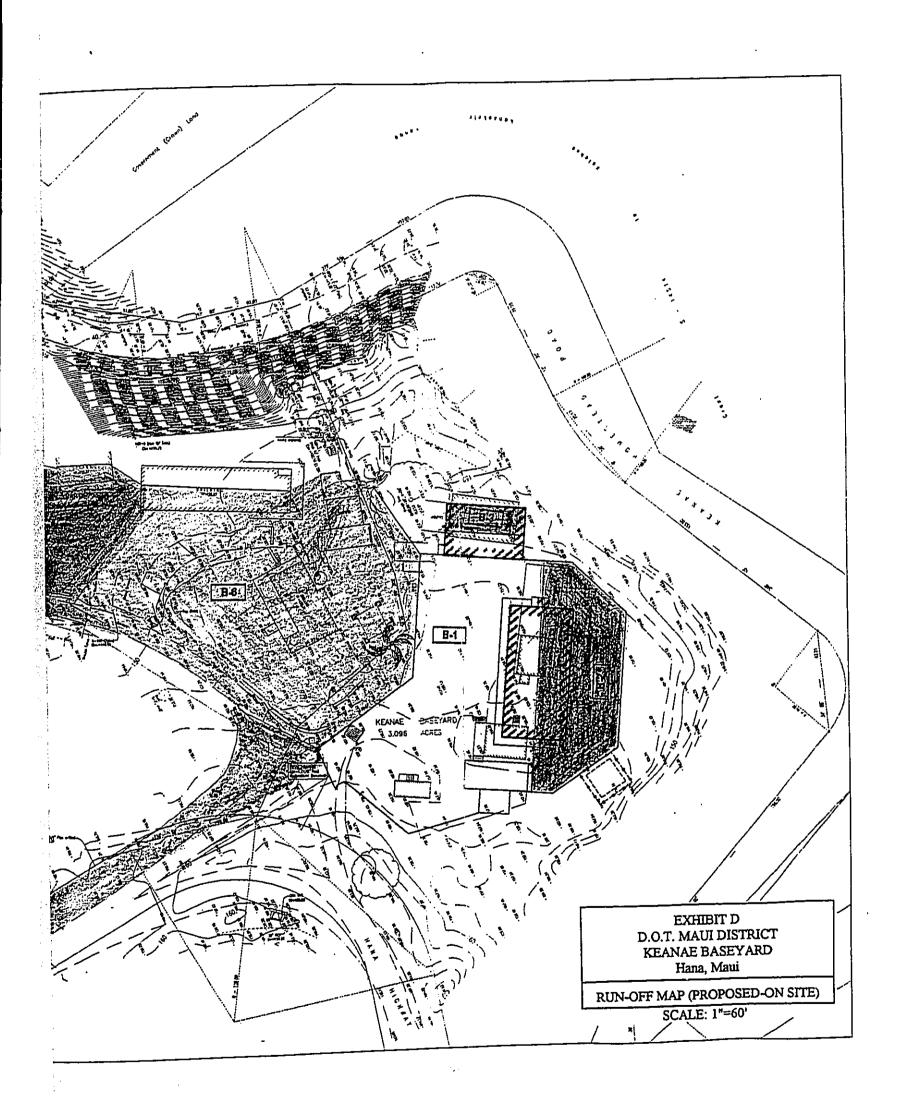
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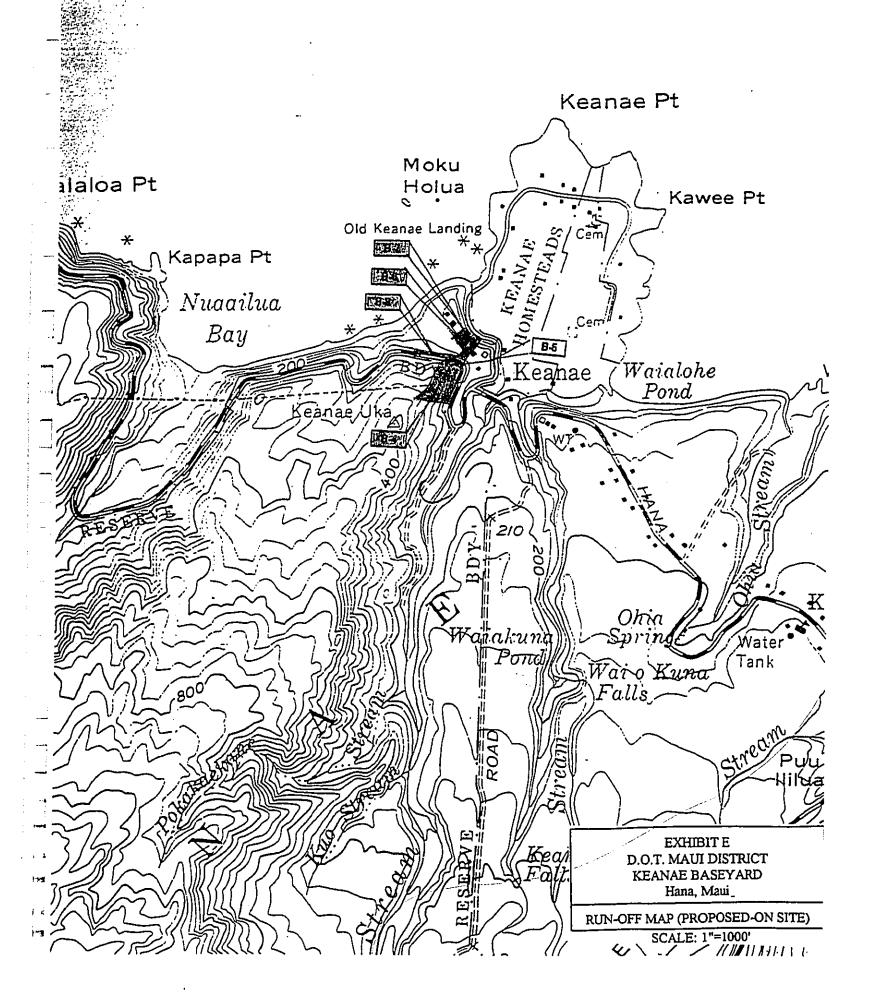
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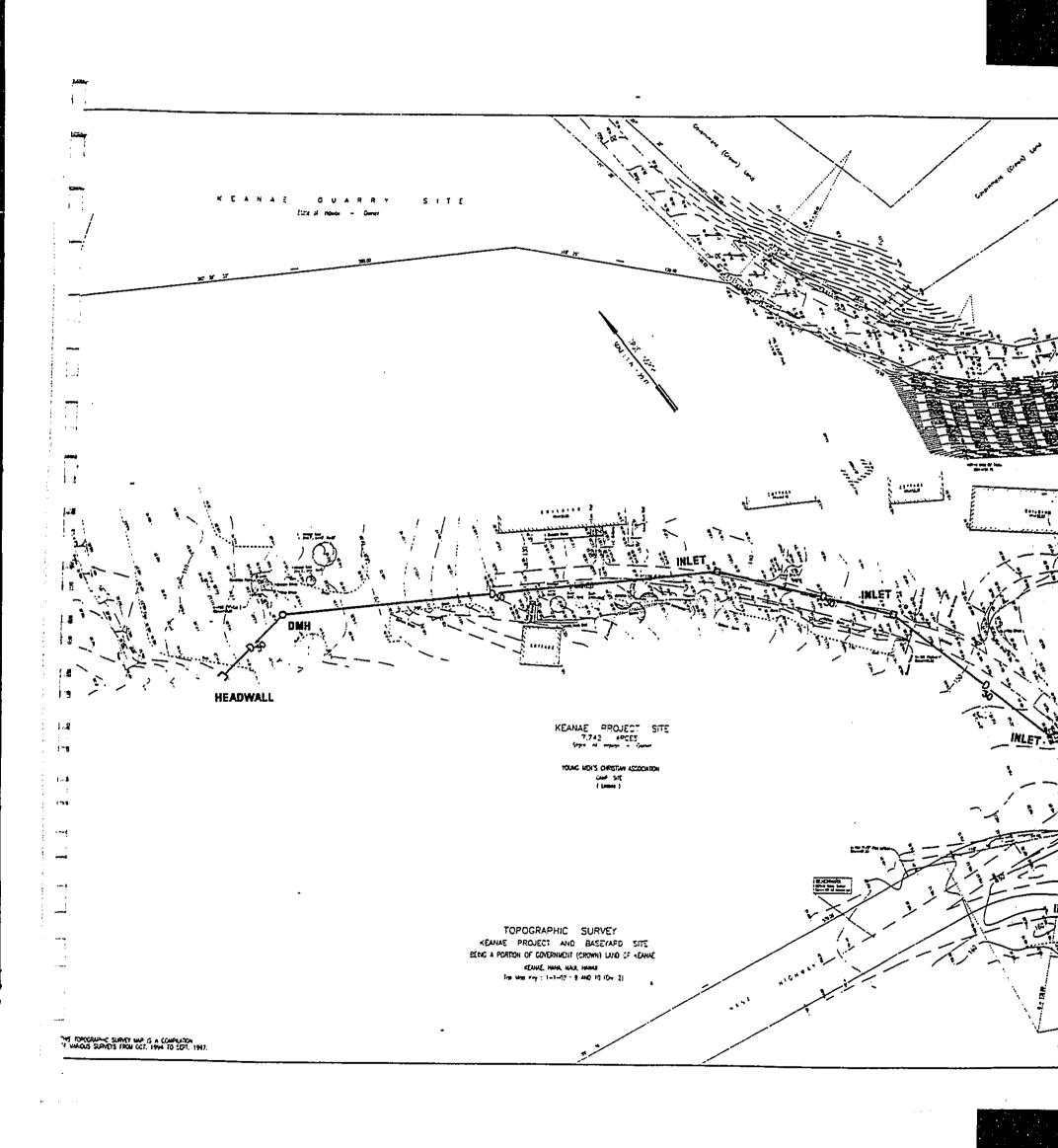


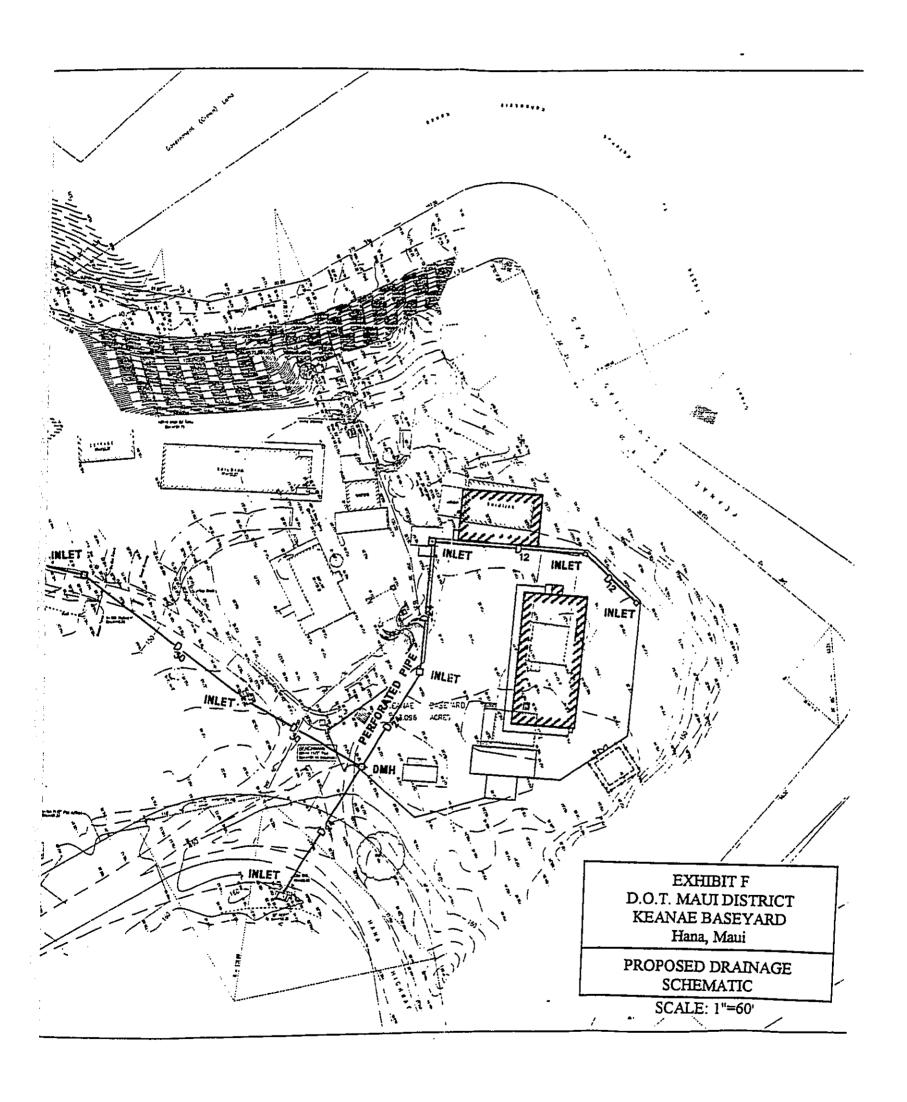






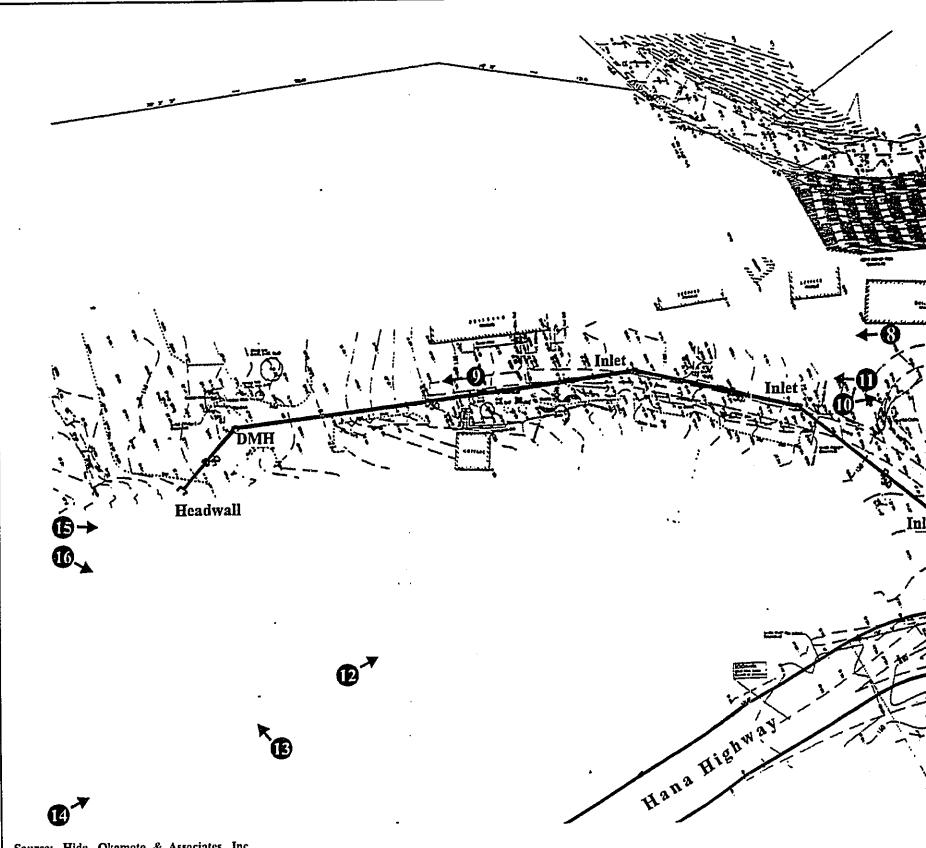




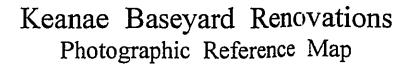


# Appendix B

Site Photographs and Photo Reference Map

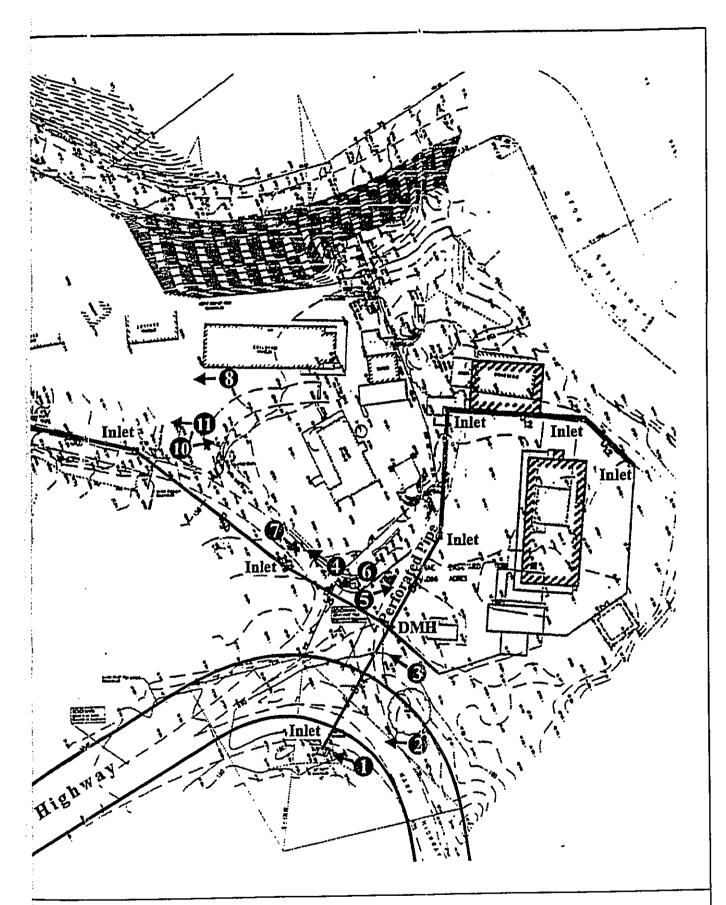


Source: Hida, Okamoto & Associates, Inc.





Prepared for: State of Hawaii, Dept. of Accounting and General Services



Renovations rence Map



NOT TO SCALE



Photo Location No. 1

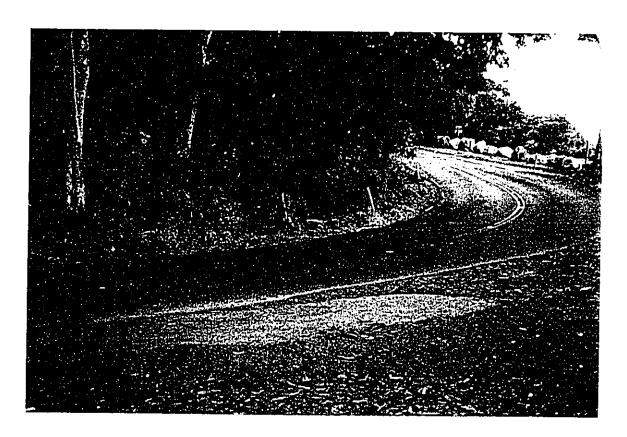


Photo Location No. 2



Photo Location No. 3



Photo Location No. 4



Photo Location No. 5



Photo Location No. 6



Photo Location No. 7



Photo Location No. 8



Photo Location No. 9

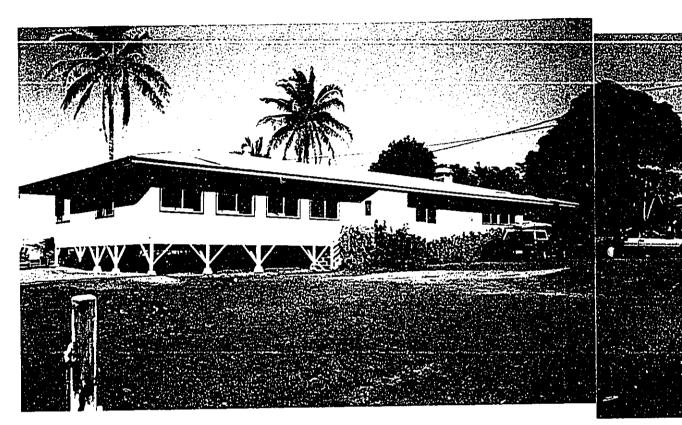


Photo Location No. 10



Photo Location No. 1



cation No. 10

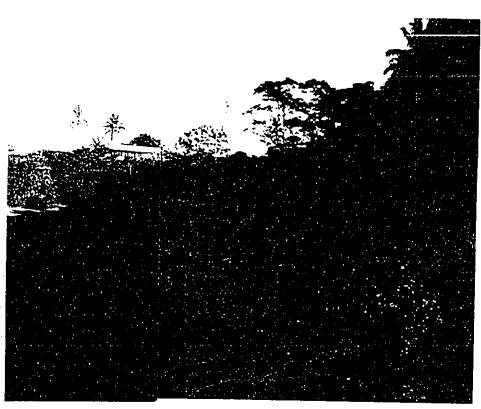


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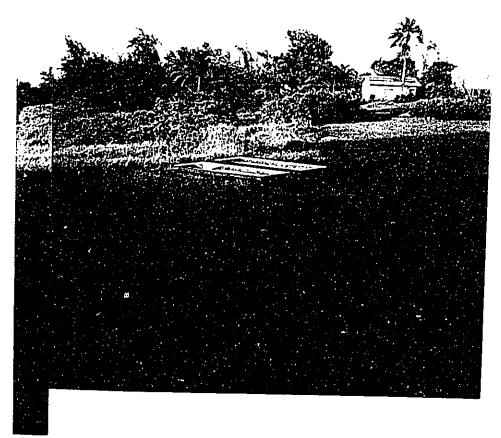


Photo Location No. 12





Location No. 12



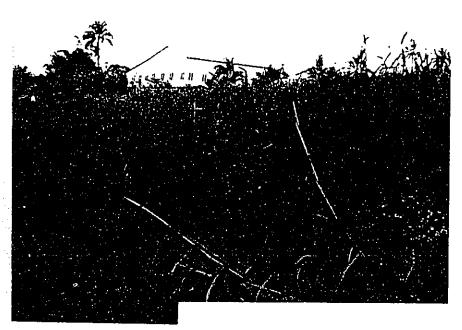
o Location No. 13



Photo Location No. 14



Photo Location No. 15



ocation No. 14



Location No. 15



Photo Location No. 16



Location No. 16

## Appendix C

Letter from C. Earl Stoner, Jr. Dated October 21, 1997 Commenting on the Preliminary Drainage Report (October 1997)



October 21, 1997

#### Gentlemen:

I have been asked by the Maui Family YMCA to review the report from Hida Okamoto & Associates for the preliminary drainage plan for the DOT Maui District Keanae Baseyard. The project bears the dags job number 25-29-7632. Please be advised that the Maui Family YMCA supports this project in its entirety. The revised plan which provides for a 30 inch covered drain line with 12 and 24 inch tributaries and inlet boxes both on the DOT Baseyard property as well as the Maui Family YMCA property, will result in a substantial improvement over the previously planned surface drainage for this project.

The project will have the benefit of alleviating the standing drainage waters at the curve on Hana Highway fronting these two properties and will further minimize erosion and standing water, which has plagued both properties historically. The outfall headwalls is located such that it will allow water to disperse over a relatively large surface area away from the YMCA play field which has been subject to inundation and standing water from heavy storms in prior years.

We support the project and will work closely with the design engineers and contractor to assure an efficient and speedy installation of this drainage facility.

Yours /very /truly

C. Earl Stoner, Jr.

Maui Family YMCA, Board of Directors

CES/kam

CC: Maui District, Keanae Baseyard Hana, Maui, Hawaii



#### **DISTRIBUTION:**

Mr. Gordon Matsuda
State Public Works Director
Dept. of Accounting and General Services
P.O. Box 119
Honolulu, HI 96810

Mr. Louis Wada DLNR Maui Land Management Division 2145 Wells Street, Suite 106 Wailuku, HI 96793

Mr. Fred Cajigal
Department of Transportation
Maui District
650 Palapala Drive
Kahului, HI 96732

Mr. Jun Sakauye Thomas Agawa & Associates, Inc.

Mr. Harvey Hida Hida, Okamoto & Associates, Inc. The Commerce Tower 1440 Kapiolani Blvd., Suite 915 Honolulu, HI 96814

Mr. Glenn Takaki Munekiyo & Arakawa, Inc. 305 S. High Street, Suite 104 Wailuku, HI 96793