### DRAFT ENVIRONMENTAL ASSESSMENT

# PROPOSED CONSTRUCTION OF AN AIRCRAFT HANGAR AT HANA AIRPORT

Ka'eleku, District of Hana, Maui

Prepared in Partial Fulfillment of the Requirements Of Chapter 343, Hawaii Revised Statutes and Title 11, Chapter 200, Hawaii Administrative Rules, Department of Health, State of Hawaii

### Prepared for:

Armin Engert, President Hang Gliding Maui 32 Ku'ukama Street Kahului, HI 96732

Prepared by:

Jon A. Sakamoto 746 Makawao Ave. Makawao, HI 96768

March 10, 2009

### PROJECT PROFILE

Proposed Action: Construct hangar building for the storage of

An aircraft and related equipment at Hana Airport,

Ka'eleku, Hana, Maui

Applicant:

Mr. Armin Engert, President

Hang Gliding Maui 32 Ku'ukama Street Kahului, HI 96732

Need for Assessment:

Condition of tenancy required by the State

Department of Transportation, Airports Division

Tax Map Key:

(1)-3-003-022-0000 (por.)

Land Area:

6,192 sq. ft.

Structure Size:

2,580 sq. ft.

Approx. Cost:

\$100,000.00

Land Owner:

State Department of Transportation, Airports

Division by Executive Order 2992

Existing Use:

Vacant parcel within airport property

Sub zone:

General

Community Plan:

Hana

Land Use:

Agricultural

Special Management Area:

Within SMA

[Anticipated] Determination:

Finding of No Significant Impact

Approving Authority:

Department of Transportation,

Airports Division

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### A. Project

Hana Airport is owned and operated by the State of Hawaii, Department of Transportation, Airports Division, who has appointed the Maui District Manager to direct airport management and provide the necessary operating procedures, facilities and tenant guidelines consistent with administrative rules promulgated by the Airports Division.

The project site is located on 4,392 sq. ft. of leased area within the boundaries of the airport. For purposes of this assessment, the scope of the details will be limited to the leased parcel.

The project consists of land preparation and construction of a new 50'-2" x 51'-6" metal building on concrete slab. The 2,580 sq. ft. structure will *not* include electrical power, communications, or plumbing. The overall height of the building will be 23', with exterior walls and roof painted a sand-colored earth tone. Although the applicant intends to limit use to aircraft/equipment storage and client servicing, he is amenable to the use of the facility by authorities in cases of emergency. His aircraft will also be made available for emergency medical transport.

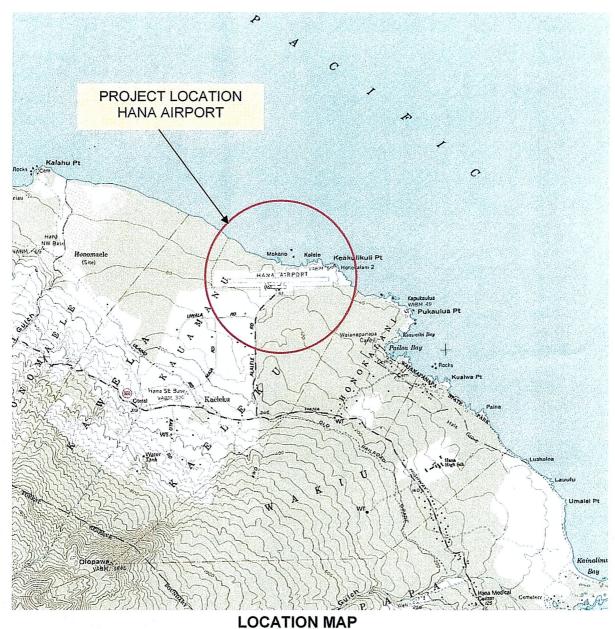
The applicant intends to comply with all airport rules, regulations and guidelines issued by the Airports Division to enhance safety and security.

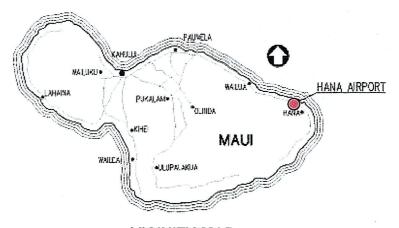
### **B.** Economic Characteristics

The cost of the improvements is estimated at \$100,000. It is understood that the applicant will underwrite all costs associated with the improvements. Construction will proceed once all appropriate permits are secured.

### C. Social Characteristics

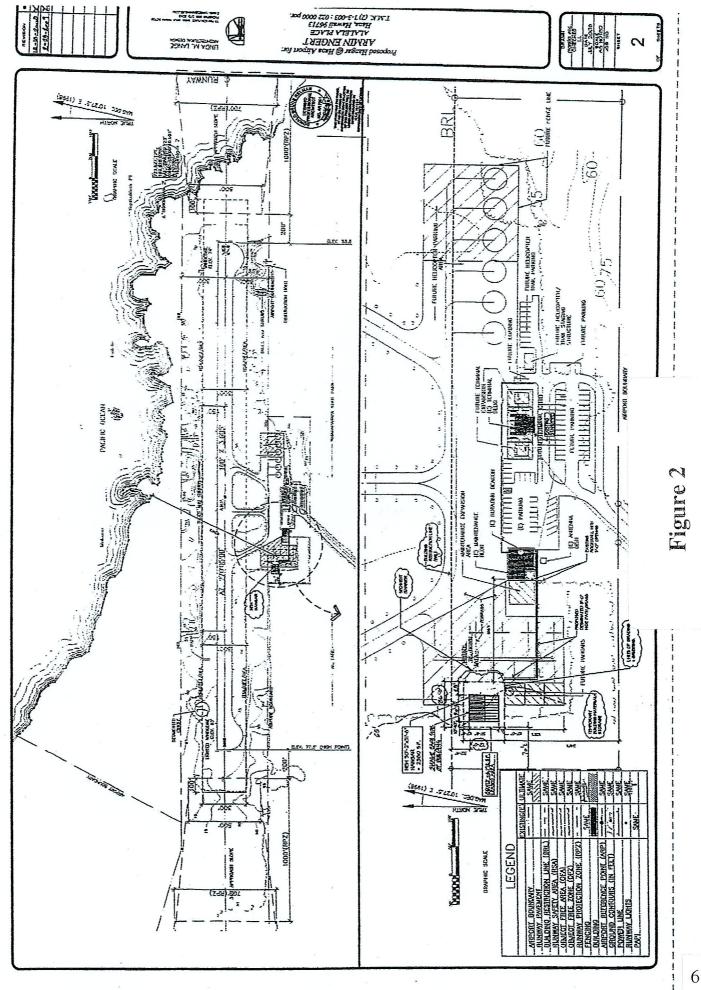
The property described herein is currently vacant with no adjoining tenants or structures.

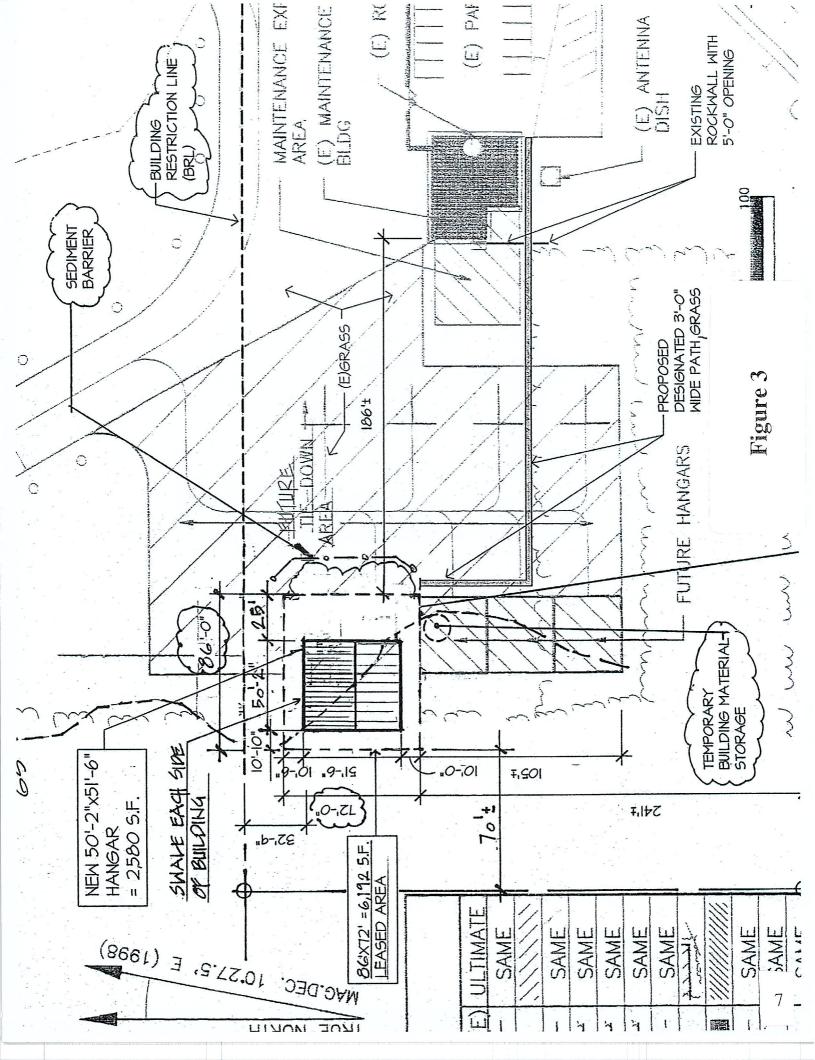




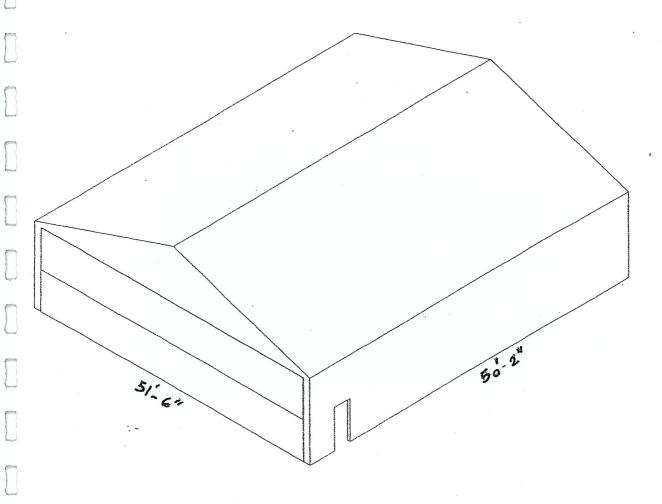
VICINITY MAP

**FIGURE 1 – PROJECT LOCATION** 





# ISOMETRIC DRAWING



Building Width: 51'-6" Building Length: 50'-2" Nom inal Eave Ht: 14'-0" Total Ht: 23'-0" +/- 2,580 SF TOTAL AREA

Figure 4

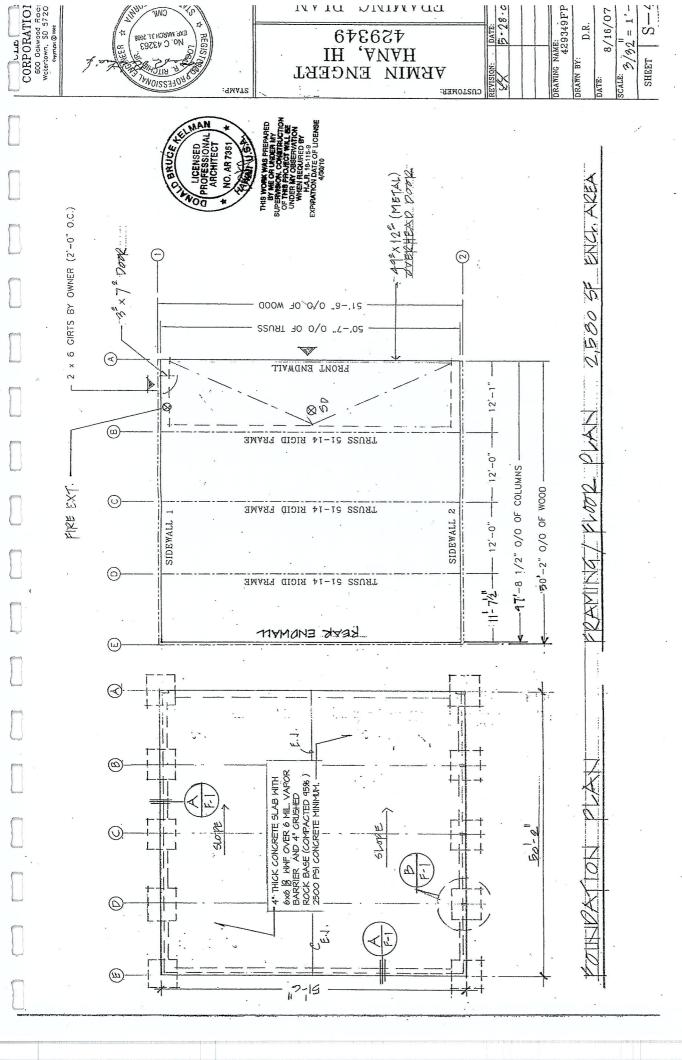
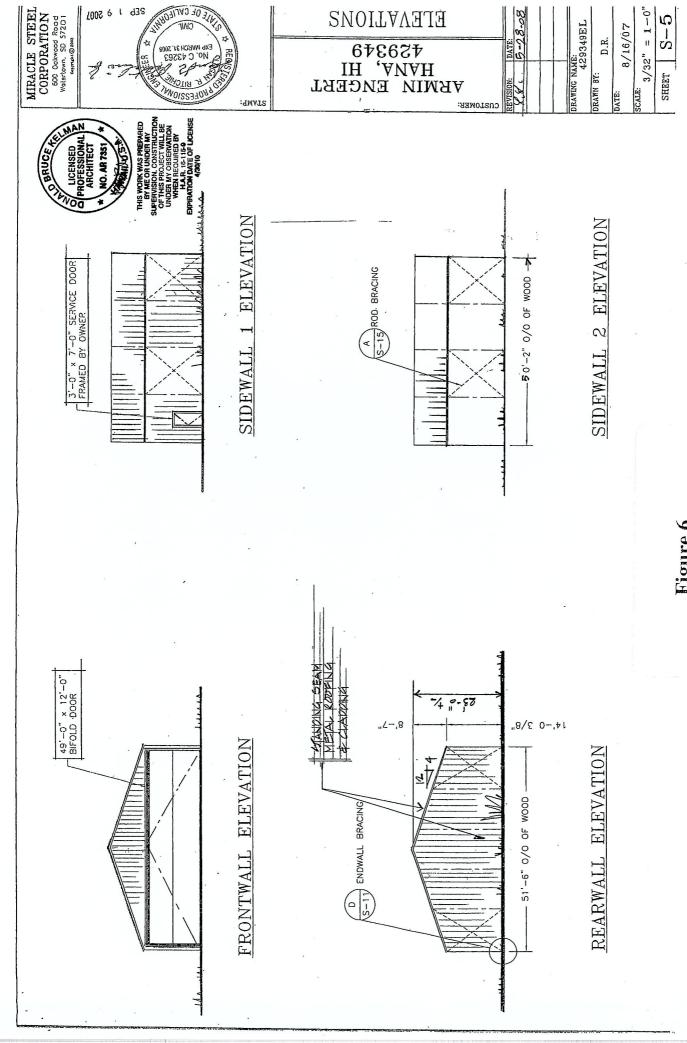


Figure 5



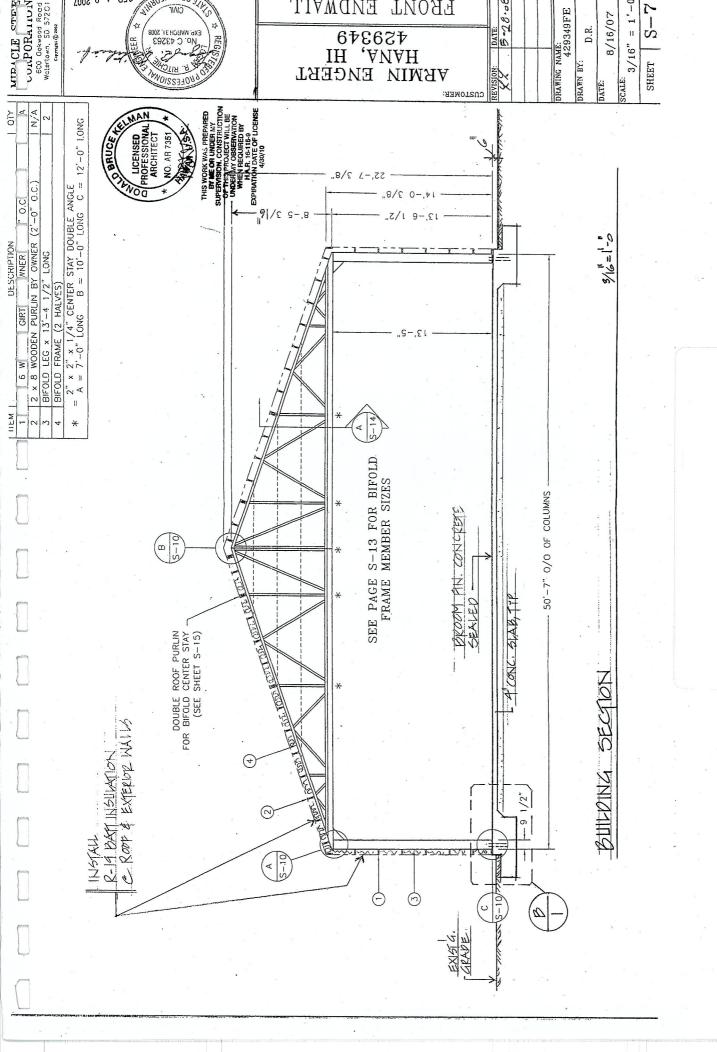


Figure 7



### A. Existing Uses and Improvements

The construction site is located at the Hana Airport, within an area dedicated for fixed-wing aircraft, as opposed to rotor aircraft (helicopters) to maintain separation for safety reasons, as recommended by the Federal Aviation Administration and implemented by the State Airports Division.

The site is consistent with the Hana Airport Master Plan, published by 1998 and recent meetings with the Maui District Airport staff, State Airports Division officials and other airport users confirm agreement with the applicant's proposal.

The hangar location is to the west or Keanae side of the Maintenance Building and Terminal Facility (see Images B and C). The site is grassed and bordered by brush tangle and assorted plant material (see Images D and E). There are no structures on the adjacent parcels and this will be the first privately financed improvement on a leased lot at the airport.

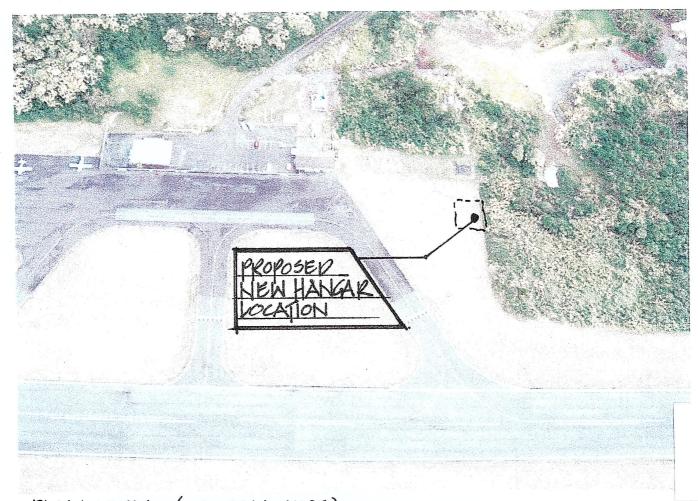
#### **B.** Environmental Conditions

Climate conditions at the airport can be described as warm and moderately wet. Northeasterly trade winds prevail for the majority of the year with average wind speeds between 13-24 miles per hour. The average annual temperature is estimated to be approximately 80°F with seasonal lows within the 60°F range during December through March and highs in the 90s during June through August. The average annual rainfall is about 75 inches with the winter months being the wettest.

The airport topography is relatively flat at about 78' mean sea level.

The Airports Division authorized a contract for wildlife hazard management by the United States Department of Agriculture Wildlife Services (USDA-WS) which will be implemented in early 2009.

This service will enhance the safety of aircraft operations during landing and takeoffs. The airport environs is a natural habitat for feral pigs which represents both a threat to aircraft operations as well as the potential damage they can cause to runway shoulders, as they root for food. Currently, the airport employees are advised by the USDA-WA as to various traps and snares which may be employed to manage the animals. The contract will also allow for organized data collection of bird life as to species and populations. Currently, there are no known endangered species that inhabit the area.



PLAN VIEW (OCEAN SIDE)

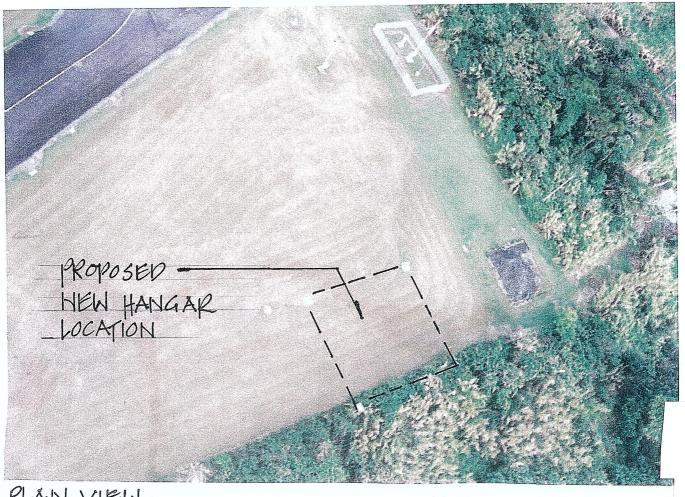


B

DI AKT MENA (KAUIIIIII SIDE) 14



VIEW FROM OCEAN



 $\mathbf{E}$ 

 $\mathbf{D}$ 

PLAN VIEW

15

The Natural Resources Conservation Service (NRCS) Soil Map (Fig. 8) identifies the soil around the project site as being of the Malama type, which is a stony, rapidly permeable with slight erosion. The soil is not flooded or ponded.

There are no streams, ponds, wetlands or other fresh water bodies on the premises.

The Flood Insurance Rate Map (Fig. 9) designates the property Zone C, which is defined as an area of minimal flooding.

### C. Land Use Plans and Controls

The airport operations area, within which the construction site is located, is zoned Agriculture and is situated in a Special Management Area (see Figures 10 and 11).

The Hana Community Plan affirms that land designated as Agriculture be maintained for a mixture of small farms as well as low density single-family residential lots. The airport and its ancillary operations are included in this category. The applicant's proposal for construction of an aeronautical improvement is in keeping with the Community Plan.

#### D. Public Facilities

Vehicle traffic to the property will be serviced by Alalele Place which connects Hana Highway to the airport. This 2-lane, 2-way paved roadway is under the jurisdiction of the Airports Division, Department of Transportation. Pavement repairs and shoulder maintenance is conducted by airport maintenance employees.

Electrical power, communication lines or water line will not be extended to the site.

Since the site is located on airport property, the tenant will be subject to the Hana Airport Emergency Plan effective 6/9/06:

```
Fire – County of Maui Fire Department/Hana –(808) 248-7525; 3 mi. SW of airport; Emergency 911
```

Ambulance Service – American Medical Response/Hana -(808) 248-8201; 3 mi SW of airport; Emergency 911

Law Enforcement – Maui Police Department/Hana -(808) 248-8311; 3 mi SW of airport; Emergency 911

### Map Unit Symbol Soils Map Legend S S

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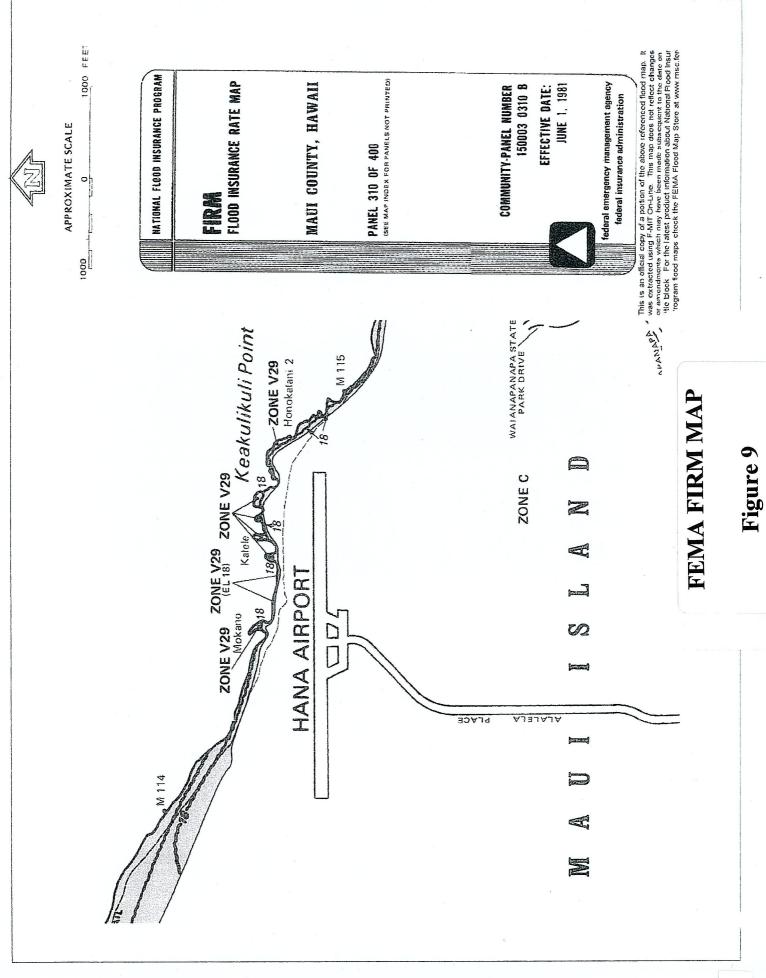
PROJECT SITE

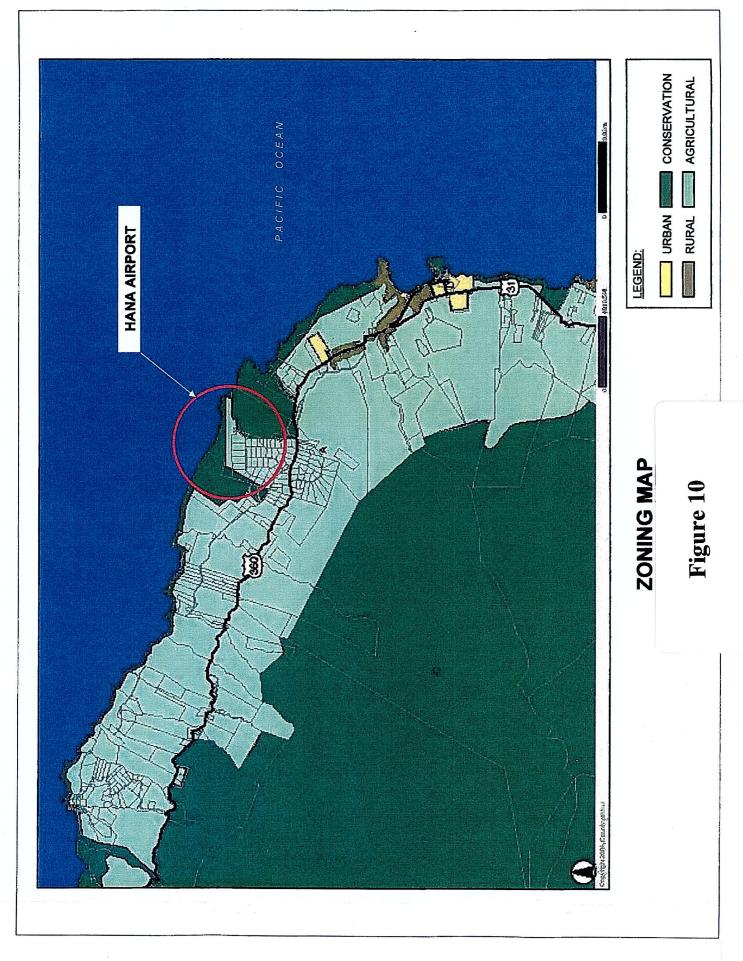


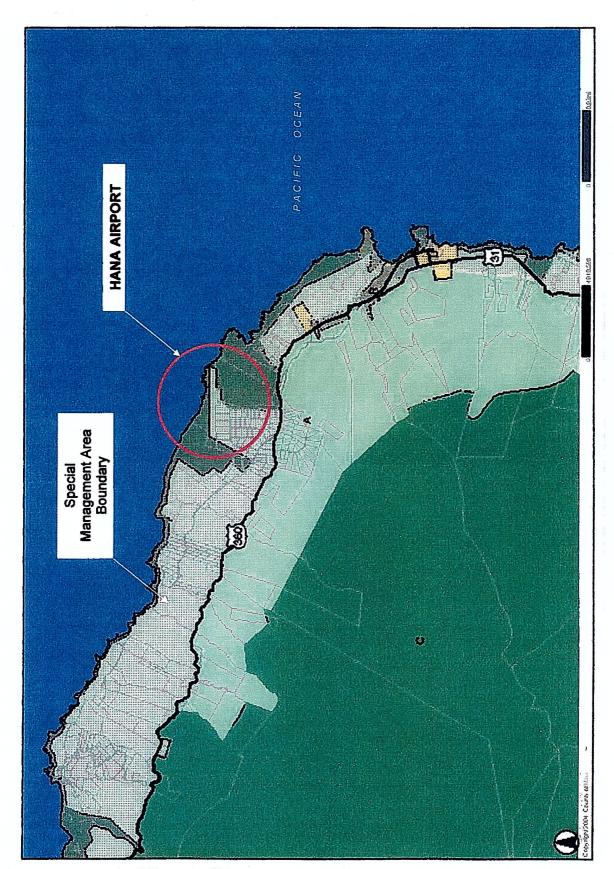


Map unit: OPD - Opihikao extremely rocky muck, 3 to 25 percent slopes Map unit: MYD - Malama extramely stony muck, 3 to 25 percent slopes 3,300 1,100

Soils Map: Hana Airport







SPECIAL MANAGEMENT AREA - HANA AIRPORT

Figure 11

### SUMMARY OF ENVIRONMENTAL IMPACTS AND MEASURES TO MITIGATE ADVERSE EFFECTS

### **SECTION THREE**

The scope of the project was discussed with Airport Division officials including the Maui Airports District Manager, Acting Maui District Engineer, Engineering Program Manager, Head Construction Engineer, Property Manager, Head Planner and General Aviation Officer. It is important to point out that the Airports Division, Department of Transportation, is the approving agency for the Draft Environmental Assessment.

Helicopter operators and other users of the Hana Airport met separately to confirm site selection and safety issues.

In addition, as part of the scoping phase, a brief profile of the project was transmitted to certain County Council members and State Legislators are involved in community planning or represent the Hana District.

Existing conditions within the airport area preclude any immediate negative impact to the surrounding environs:

- There are no rare, threatened or endangered flora or fauna on the property;
- There are no recorded archaeological or cultural resources on the property;
- The property is not located in a flood hazard zone;
- There are no streams, ponds, wetlands or surface water features on the property;

Airport improvements and maintenance have included best management practices and standards based on a concern for the environment.

### A. Short-Term Impacts

The State Airports Division, Engineering Branch approve plans and specifications for construction work at the airport. Pre-construction meetings are held between the contractor and airport management to ensure compliance with FAA and Airport Division guidelines to avoid interference with public access and airport operations.

Should subsurface archaeological or cultural features be unearthed, work in the immediate area will cease and the State Historic Preservation Division notified immediately for disposition of the findings. If burials are unearthed, the State Historic Preservation Division and Maui County Police Department will be notified immediately.

Plant material to be graded at the site is limited to grass so that no adverse effects are anticipated.

### **B.** Long-term Impacts

Construction will be limited to the site designated by the Airports Division and leased to the applicant.

A swale within each of the 10' set-backs (north and south) will direct roof run off away from the adjoining parcels.

No utility hook-ups are planned; some consideration for a photo-voltaic system may be included in the future.

One *positive* long-term impact is that the applicant will make both hangar and aircraft available for catastrophic emergencies which may arise at the airport. Both assets may be included for emergency planning purposes by airport management.

### A. No Action

To take no action would deny the applicant use of airport facilities master planned, designed and constructed to foster aeronautical purposes.

This assessment has, in fact, identified a beneficial use of the applicant's assets which would contribute to emergency resources if the need should arise.

Permits and approvals required for the project are listed below:

**Authority** 

Permit(s)/Approval(s)

State of Hawaii

State Department of Transportation

Draft Environmental Assessment

Approval

Land Board/State Department of Land

and Natural Resources

Lease Approval

County of Maui

Department of Planning

Special Management Area

**Assessment Permit** 

Department of Public Works and

**Environmental Management** 

**Building Permit** 

Chapter 200 (Environmental Impact Statement Rules) of Title 11 Administrative Rules of the State Department of Health, establishes criteria for determining whether an action may have significant effects on the environment (11-200-12). The relationship of the proposed project to these criteria is discussed below:

1) Involves an irrevocable commitment to loss or destruction of any natural or cultural;

The landscaped area where improvements are proposed is devoid of archaeological and cultural resources.

2) Curtails the range of beneficial uses of the environment:

The project does not curtail the beneficial uses of the environment. The proposed improvement will afford the applicant appropriate aeronautical use of the property in keeping with the mission of the Airports Division.

3) Conflicts with the State's long-term environmental policies or goals and guidelines as expressed in chapter 343, Hawaii Revised Statutes and any revisions thereof and amendments thereto, court decisions, or executive orders;

The project does not conflict with long-term environmental policies, goals and guidelines of the State of Hawaii.

4) Substantially affects the economic or social welfare of the community or State;

The project will have no affect on the social welfare of the community or State.

5) Substantially affects public health;

Public health will neither be affected during or after construction of the project.

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

Substantial secondary impacts are not anticipated.

7) Involves a substantial degradation of environmental quality;

No degradation of environmental quality is anticipated.

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

The project does not involve a commitment for larger actions.

9) Substantially affects a rare, threatened or endangered species, or its habitat:

Both flora and fauna are common to the island of Maui and are neither threatened or endangered.

10) Application of water to control dust during construction;

Minimal fugitive dust will be raised during the grading phase of construction, however, wind direction will be included in the timing of the process and water will be applied to the site as required for additional dust control.

11) Affects or is likely to suffer damage by being located in an environmentally sensitive area such as a flood plain, tsunami zone, beach, erosion-prone area, geologically hazardous land, estuary, fresh water or coastal waters;

The proposed area is not located in an environmentally sensitive area.

12) Substantially affects scenic vistas and view planes identified in county or State studies;

The improvements will not substantially affect scenic vistas and view planes from public viewing places such as roads and scenic lookouts.

13) Requires substantial energy consumptions;

Substantial energy consumption is not anticipated.

- Airports Division, Department of Transportation, State of Hawaii. October 1998. Hana Airport Master Plan.
- Planning Department, County of Maui. 1994. Hana Community Plan.
- Federal Emergency Management Agency. June 1981. Flood Insurance Rate Map, County of Maui. Community Panel No. 15003 0319B.
- Airports Division, Department of Transportation, State of Hawaii, June 2005. Airport Certification Manual – Hana Airport.
- Airports Division, Department of Transportation, State of Hawaii. 2004. Hawaii Airports and Flying Safety Guide.
- Airports Division, Department of Transportation, State of Hawaii. December 1991 *Tenant Improvement Guidelines*.
- U.S. Department of Transportation, Federal Aviation Administration, *Advisory Circular 150/5300-13*
- U.S. Department of Agricultural, Soil Conservation Service, August 1972. Soil Survey of Islands of Kauai, Oahu, Maui, Molokai and Lanai, State of Hawaii.

### Websites

http://www.oeqc@doh.hawaii.gov http://www.fema.gov/business/nfip http://www.librarieshawaii.org

### APPENDIX A – CONSULTATION DATA

### SECTION EIGHT

LINDA LINGLE





#### STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES

STATE HISTORIC PRESERVATION DIVISION 601 KAMOKILA BOULEVARD, ROOM 555 KAPOLEI, HAWAII 96707

LAURA H. THIELEN BOARD OF LAND AND NATURAL RESOURCES MMISSION ON WATER RESOURCE MANAGEMENT

RUSSELL Y. TSUJI

KEN C. KAWAHARA DEPUTY DIRECTOR - WATER

AQUATIC RESOURCES
BOATING AND OCEAN RECREATION
BUREAU OF CONVEYANCES
COMMISSION ON WATER RESOURCE MANAGEMENT
CONSERVATION AND COASTAL LANDS CONSERVATION AND RESOURCES ENFORCEMENT ENGINEERING
FORESTRY AND WILDLIFE
HISTORIC PRESERVATION
KAHOOLAWE ISLAND RESERVE COMMISSION LAND STATE PARKS

October 31, 2008

Mr. Armin Engert Hang Gliding Maui LLC 32 Kuukama Street Kahului, Hawai'i 96732

LOG NO: 2008.0657 DOC NO: 0810JP20 Archaeology

Dear Mr. Engert:

SUBJECT:

Chapter 6E- Historic Preservation Review [County/EA] -

Information Request (Environmental and Special Management Area Assessment)

For the Proposed Hana Airport Hangar

Kawela/Kauamanu/Kaeleku Ahupua'a, Hana District, Island of Maui

TMK: (2) 1-3-003:022 (Portion)

The subject action consists of an information request regarding plans to create a 52 x 60 foot metal hangar at the existing Hana Airport. We appreciate your patience in waiting for our response. Thank you for including the details of your proposed project, which also included photographs. While conducting research for the subject parcel, it came to our attention that an informal field inspection was previously completed for the Hana Airport Fenceline project (LOG NO: 2007.3753/ DOC NO: 0711NM22). We note that the above cited documents (on file) contain a TMK parcel error [(2) 2-1-003:022-040] and our previous documentation should reflect the accurate parcels as TMK (2) 1-3-003: 022-040. We understand the correct Parcel 022 involved in the former review, includes the current subject area.

we	believe i	io historic properties will be attected by this project because:		
	Intensive cultivation has altered the land Residential development/urbanization has altered the land			
$\boxtimes$	Previous grubbing/grading has altered the land			
$\overline{\boxtimes}$	An informal archaeological field inspection found no historic properties			
	SHPD p	SHPD previously reviewed this project and mitigation has been completed		
$\boxtimes$	Other:	Archaeological field inspection letter report on file (CSH), dated September 26, 2006,		
		indicates no historic properties are present in the subject area. We concurred with the		
		evaluation (LOG NO: 2007.3753/ DOC NO: 0711NM22). We understand the current		
		request involves a small area within the previously surveyed area. Proposed plans include		
		creating a space to store a powered Hang glider and one single engine Aircraft. No waste		
		water, waterlines, or electric (infrastructure) is needed for the project. The proposed		
		hangar will be constructed on a 3-inch thick concrete slab.		

In the event that any historic resources including bottles, ceramics, rock alignments, terraces, walls, petroglyphs, artifacts, charcoal, shell midden, or skeletal remains (etc.) are identified on the subject parcel, all work needs to cease in the immediate vicinity of the find, the find needs to be protected from additional disturbance, and the State Historic Preservation Division, Maui Section, needs to be contacted Mr. Armin Engert Page 2

immediately at (808) 243-1285 or (808) 243-4640. Please feel free to contact Jenny Pickett at (808) 243-4641 with any concerns about this review letter.

Aloha,

Nancy McMahon

Historic Preservation Manager

Pancy a. MMahon

State Historic Preservation Division

JP

c: Jon Sakamoto email address: jonalan@hawaiiantel.net

Dr. Allison Chun email address: allisons@hawaii.edu

Dept of Planning, FAX (808) 270-7634

Maui Cultural Resources Commission, Dept. of Planning, 250 S. High Street, Wailuku, HI 96793

## APPENDIX B – PRE-APPROVAL SCOPING DATA SECTION NINE

CHARMAINE TAVARES
Mayor

JEFFREY S. HUNT Director

KATHLEEN ROSS AOKI Deputy Director



### DEPARTMENT OF PLANNING

January 7, 2009

Mr. Jon A. Sakamoto 746 Makawao Avenue Makawao, Hawaii 96768

Dear Mr. Sakamoto:

SUBJECT:

PRE-CONSULTATION COMMENTS IN PREPARATION OF A DRAFT ENVIRONMENTAL ASSESSMENT (DEA) FOR PROPOSED CONSTRUCTION OF AN AIRCRAFT HANGAR AT THE HANA AIRPORT LOCATED AT HANA, ISLAND OF MAUI, HAWAII, TMK: (2) 1-3-003:022 (EAC 2008/0047)

The Department of Planning (Department) would like to acknowledge that on December 15, 2008, Mr. Jon A. Sakamoto on behalf of Mr. Armin Engert, President of Hang Gliding Maui (Applicant), presented to the Hana Advisory Committee in a public forum, the proposed plans for a 2,500 square feet hangar structure to be located at the Hana Airport, Hana, Maui.

It shall be noted that there was only favorable testimony regarding the proposed project and no objections from the community.

Thank you for the opportunity to comment. Should you require further clarification, please contact Staff Planner Paul Fasi via email at <a href="mailto:paul.fasi@mauicounty.gov">paul.fasi@mauicounty.gov</a> or at 270-7814.

Sincerely,

CLAYTON I. YOSHIDA, AICP Planning Program Administrator

For: JEFFF

JEFFREY S. HUNT, AICP

Clay I, yould

Planning Director

XC:

Paul F. Fasi, Staff Planner

2008 EAC File

General File

JSH:CIY:PFF:vb

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**CHARMAINE TAVARES** Mayor

MILTON M. ARAKAWA, A.LC.P. Director

MICHAEL M. MIYAMOTO Deputy Director



RALPH M. NAGAMINE, L.S., P.E. **Development Services Administration** 

> CARY YAMASHITA, P.E. **Engineering Division**

BRIAN HASHIRO, P.E. Highways Division

### **COUNTY OF MAUI** DEPARTMENT OF PUBLIC WORKS

### **DEVELOPMENT SERVICES ADMINISTRATION**

250 SOUTH HIGH STREET WAILUKU, MAUI, HAWAII 96793

February 6, 2009

Mr. Marvin A. Moniz STATE OF HAWAII DEPARTMENT OF TRANSPORTATION Airports Division - Maui District Kahului Airport 1 Kahului Airport Road, Unit 5 Kahului, Hawaii 96732

SUBJECT:

EXEMPTION FROM BUILDING PERMIT

HANA AIRPORT HANGER

400 ALALELE PLACE, HANA, MAUI, HAWAII

TMK (2) 1-3-003:022

Dear Mr. Moniz:

This is in response to your December 15, 2008, letter (reference AIR-M 09,0028) requesting to withdraw Building Permit Application #B T2008-1640 for construction of an airplane hangar, and exemption from building permit requirements for the structure at the Hana Airport.

We are, therefore, canceling the building permit application, and advising Mr. Armin Engert, by copy of this letter, to pick up the application and three sets of plans at the Building Permit Office by February 27, 2009, or they will be discarded.

Pursuant to §16.26.106.2(12) of the Maui County Code, we also acknowledge that the proposed work is exempt from permitting requirements in the County's building code. Since building permits will not be issued, the County will not be obligated to inspect the project for building code requirement, and a Certificate of Occupancy will not be issued upon completion of the proposed work.

Please submit another letter if you wish exemptions from electrical and plumbing permits.

If you have any questions regarding this letter, please call Sharon Norrod at (808) 270-6186.

Milton M. Arakawa, A.I.C.P.

Director of Public Works

sn C:

S:\DSA\Admin\Scn\13003022\_HanaAirport\_exemption\_2009.wpd

Planning Department

State Department of Health

Fire Prevention Bureau

Armin Engert

Hang Gliding Maui 32 Ku'ukama Street Kahului, HI 96732

March 1, 2009

Mr. Marvin A. Moniz
Airports District Manager
Airports Division – Maui District
Department of Transportation
Kahului Airport
1 Kahului Airport Road, Unit 5
Kahului, HI 96732

SUBJECT: EXEMPTION FROM BUILDING PERMIT

HANA AIRPORT HANGAR

400 ALALELE PLACE, HANA, MAUI, HAWAII

TMK (2) 1-3-003:022

Dear Mr. Moniz:

We appreciate your proposal to the Maui County Planning Department that an exemption be considered for the construction of the abovementioned aircraft hangar at Hana Airport, based on the rural nature and limited infrastructure available within the Ka'eleku District of Hana, Maui.

The subsequent approval by the County and support of the recommendation by both the Maui District and Mr. Matsushige of the Airports Division is also greatly appreciated and will expedite the initiation of the project.

As the process for Department approval of the Draft Environmental Assessment and lease, moves toward completion, we will advise your office of our construction schedule so as to enhance coordination and mitigate any interruption of operations at the Hana Airport.

Again, we are grateful for your support and understanding.

Sincerely,

Armin Engert, President Hang Gliding Maui

c: Mr. Gene Matsushige, Project Engineer, Airports Division