Stephen K. Yamashiro Mayor



Lanikaula-Manono Traffic Signal Imp. Donna Fay K. Kiyosaki

Chief Engineer Jiro A. Sumada Deputy Chief Engineer

County of Habraii

DEPARTMENT OF PUBLIC WORKS 2:59
25 Aupuni Street, Room 202 • Hillo, Hawali 96720-3252

(808) 961-8321 • Fax (808) 961-8630

August 26, 1997

QUALITY CONTE

MR GARY GILL DIRECTOR OFFICE OF ENVIRONMENTAL CONTROL 235 SOUTH BERETANIA STREET SUITE 702 HONOLULU HI 96813

SUBJECT: FINDING OF NO SIGNIFICANT IMPACT FOR THE

LANIKAULA-MANONO TRAFFIC SIGNAL IMPROVEMENTS

South Hilo, Hawaii

TMK: (3) 2-2-27, 36 and 50

The County of Hawaii Department of Public Works has reviewed the comments received during the 30-day public comment period, which began on June 8, 1997. The agency has determined that this project will not have significant environmental effect and has issued a "Finding of No Significant Impact." Please publish this notice in the next OEQC Bulletin.

We have enclosed a complete OEQC Bulletin Publication Form and four (4) copies of the final EA. Should you have any questions, please contact Ben Ishii of our Engineering Division at (808) 961-8327.

DONNA FAY K. KIYOSAKI, P.E. Chief Engineer

Enclosures

cc: Engineers Surveyors Hawaii, Inc

ENG (B. Ishii)

1997-09-23-HI-FEA-Lanikaula-Manono Traffic Signal Improvements

SEP 23 1997

FINAL ENVIRONMENTAL ASSESSMENT CHAPTER 343, HAWAII REVISED STATUTUES (HRS)

FOR THE PROPOSED

LANIKAULA / MANONO INTERSECTION TRAFFIC SIGNAL IMPROVEMENTS

PREPARED FOR THE DEPARTMENT OF PUBLIC WORKS HAWAII COUNTY



PREPARED FOR ENGINEERS SURVEYORS HAWAIL INC. BY ENVIRONMENTAL COMMUNICATIONS

L SUMMARY INFORMATION

Project Name:

Lanikaula/Manono Intersection Traffic

Signal Improvements

Proposing Agency:

County of Hawaii

Department of Public Works

Engineering Division

Accepting Authority:

Federal Highway Administration

State Dept. of Transportation

Highways Division

Agencies to be Consulted:

(Listed in Section VI.)

Project Location:

The project area is located at the

intersection of Lanikaula Street and

Manono Street.

TMK: 3rd District 2-2-27, 36 & 50

Landowner:

County of Hawaii

Existing Use:

County Streets

State Land Use:

Urban

Zoning:

RS-10; ML-20

Project Description:

The proposed project consists of a new traffic signalization plan for the subject intersection. The plan will consist of providing and installing all traffic control devices in conformance with the "Manual of Uniform Traffic control devices for

streets and highways".

At the present time, there is a signal system installed earlier at the intersection of Kekuanaoa and Manono streets that is complementary to this proposed action.

This study addresses the new traffic signal system and the potential environmental impacts associated with the system.

Lanikaula/Manono Intersection Traffic Signal Improvements Draft Environmental Assessment September, 1997

Page I-1

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4.	PROPOSED DESIGN	
	EXHIBITS	
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II. PROJECT DESCRIPTION

Background

The proposed project involves the construction of a new traffic signal improvement system at the intersection of Lanikaula and Manono Streets in the Waiakea Houselots 1st Series, South Hilo, Hawaii. The new traffic signal system is in response to the increased traffic flowing through the sector from Kilauea Avenue and Kanoelehua Avenue. A previous traffic signalization system has been installed nearby at Kekuanaoa and Manono Streets to accommodate the increased traffic flow from the airport and adjacent airport commercial districts.

The installation of the traffic system is in an existing urban-residential district and the right-of-way may result in some taking of private lands. The engineering design for the traffic signalization is under way, and will be finalized by the Engineering Division, Department of Public Works, County of Hawaii.

This assessment will focus on the proposed design and will provide opportunity for both public agencies and private citizenry to comment on the proposed action. The project's effect and anticipated environmental impacts with proposed mitigation measures will be discussed in the Final E. A.

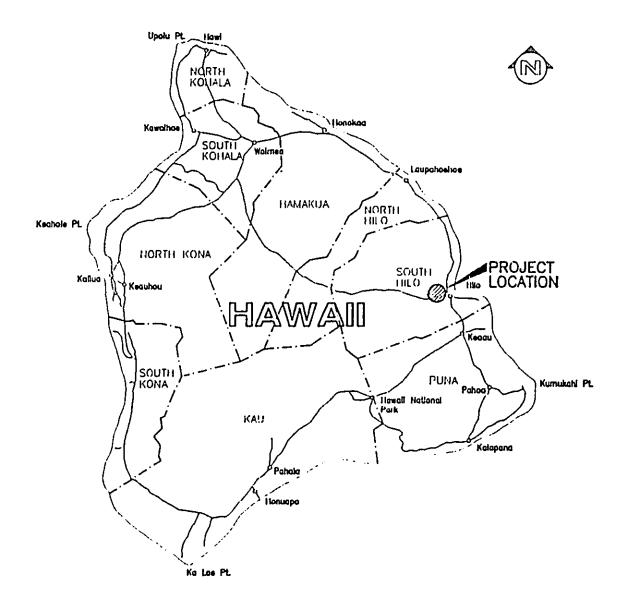
The project area, location map and the general project limits are shown in figures 1 to 3.

Existing Conditions

The existing intersection presently provides a direct route to the Lyman Field and adjacent airport industrial areas on Kanoelehua Avenue. Also, there is a direct connection to Kilauea Avenue which leads to Waianuenue Avenue. Residential zoned lands prevail in the South Hilo Waiakea Houselots, 1st Series.

Within the town of Hilo, increased traffic flowing through established residential neighborhoods has resulted in the need and demand for traffic intersection signalization.

Lanikaula/Manono Traffic Signal Improvements



Lanikaula/Manono Intersection Traffic Signal Improvements Figure 1 Vicinity Map

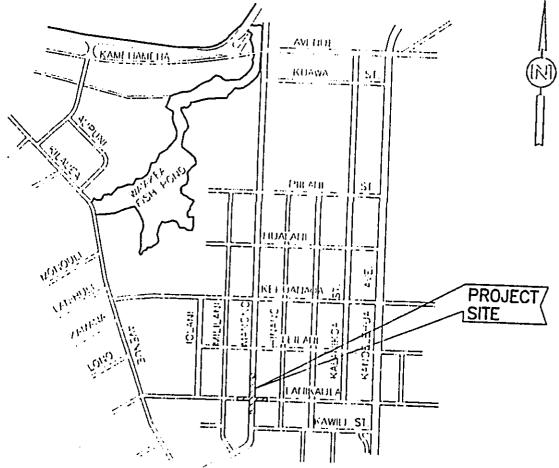
November, 1996

Lanikaula/Manono Traffic Signal Improvements

Draft Environmental Assessment September, 1997

Page II-2

LOCATION PLAN



TMK 3RD DIV.: 2-2-27 & 36

NOT TO SCALE

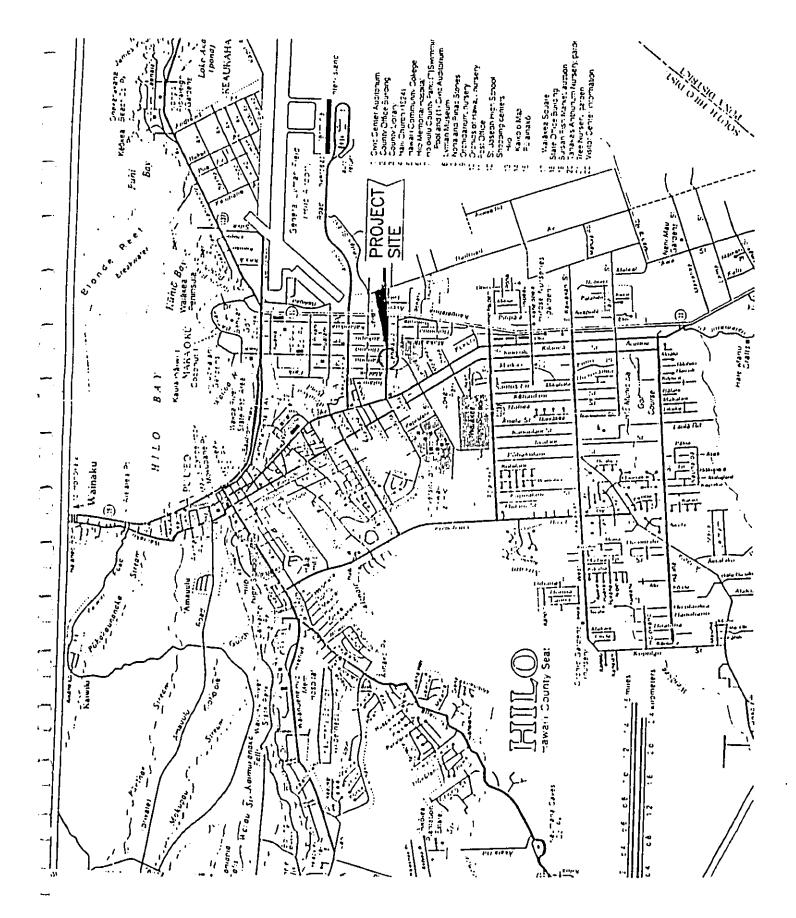
Lanikaula/Manono Intersection Traffic Signal Improvements Figure 2 Project Location Map

November, 1996

Lanikaula/Manono Traffic Signal Improvements

Draft Environmental Assessment September, 1997

Page II-3



Lanikaula/Manono Intersection Traffic Signal Improvements Figure 3 Project Site Map

Lanikaula/Manono Traffic Signal Improvements November, 1996

Draft Environmental Assessment September, 1997

Page II-4

Technical Characteristics

Description of Original and Proposed Design Alternatives

The existing traffic intersection does not have a traffic signal system at the present time. The proposed design alternative will involve widening of the Lanikaula Street and Manono Street intersection corners to provide additional laneage for left turn storage and queuing space. New curbs, gutters, sidewalks, pedestrian ramps, concrete steps, and chain link fencing to replace fencing taken for right-of-way space will be designed and installed. Where required, smooth transitional driveways to connect to existing driveways will be installed; landscaping will be planned for replacement wherever existing landscaping has been removed; and if structures, i.e. garages are removed, then replacement parking for private vehicles will need to be addressed.

Traffic Operation

- All left-turn movements will be at grade and will provide storage lanes.
- The signal plan will be an 8 phase dual ring, quad left turn design. Exclusive left turn for all approaches will be included in the design, together with an intersection controller. Intersection striping and signing, phase assignments with diagrams and overlaps, pedestrian and vehicular detection assignments and types, street lights, power requirements, and communications requirements.

Cost Factors

Estimated construction costs are \$500,00.00 dollars.

Figure 4 Project Design

Lanikaula/Manono Traffic Signal Improvements

Constructability

- Manono and Lanikaula Streets are planned secondary arterials having extended 60-ft.wide right-of-ways. Land acquisition to widen the r-o-w from the existing 50 ft. width, for approximately 300 ft. either side of the intersection, will be included as part of this project. The acquisitions will be completed via condemnation processes, and are necessary for the project construction. The project design will be based on 60-ft.r-o-w at the intersection with transitions to the existing 50-ft. r-o-w. Environmental issues are not considered to be significant in terms of negative impact, and should not require major mitigative measures.
- Detours between the hours of 0830-1530 hours will be required. The general contractor will be responsible for the maintenance of smooth traffic movements, with a minimum of disruptions.

Visual Impact

The project will not result in a negtive visual impact during or after completion.

Socio-economic Characteristics

Economic Concerns for Local Businesses

The proposed action will result in the relocation due to acquisition of certain residences and businesses; consequently, there will be direct property related impacts. Perhaps, the concerns for local businesses adjacent to the project site are better determined after land acquisition is defined and impacts identified, such as reconstructing or relocating existing structures, driveways, etc. The proposed signalization will result in a smoother flow of traffic after completion of the proposed improvements.

Employment and Materials

Construction of the proposed traffic signalization will require additional labor employment which will result in additional tax revenues and increased spending. Additional materials will also be required for the temporary bypass if needed.

Project Costs

It is projected that construction of the proposed improvements will be \$500,000.00.

Lanikaula/Manono Traffic Signal Improvements

Environmental Characteristics

The proposed project will result in a minor change in environmental conditions from the original at-grade intersection. Traffic conditions will improve; however moderate visual impacts may result from implementation of the proposed alternative. Traffic, air and noise conditions will not vary significantly from impacts expected from the original at-grade condition.

Lanikaula/Manono Traffic Signal Improvements

III. AFFECTED ENVIRONMENT

The social, economic, and environmental context of the project area has not changed significantly. The proposed project is located in the South Hilo District in the Waiakea Houselots. A similar traffic signalization project was recently completed two blocks north at Manono and Kekuanao'a Streets.

The project area consist of fully improved urban standard streets in a residential single family area. The topography of the project site is level. Additional grading may be required for the adjacent areas that may be taken for street widening.

No hydrological resources are located on the project site. The project area is naturally drained and is not subject to flooding. No built structures exist on the project site with the exception of the existing road system.

The proposed roadway is included in the Hilo District development plan and is consistent with the land use and transportation plans for the area.

Lanikaula/Manono Intersection Traffic Signal Improvements

IV. SUMMARY OF MAJOR IMPACTS AND ALTERNATIVES CONSIDERED

Generally, there are virtually no changes in the minor and primarily construction related impacts anticipated with the proposed design. Contractor's responsibility will resolve the typical impacts due to Noise, Air Quality, Drainage, and basic housekeeping.

Scenic Impacts

The scenic impact of the proposed improvements may be greater than the original intersection design. However, the visual impact will not be significant since there are little structural improvements beyond the traffic signal light standards, the new curbs, gutters, sidewalks, and replacement private citizen structures, i.e. garages, accessory sheds, etc.

Economic Impacts

The revised intersection will lessen the potentially negative impact on Lanikaula Street. Traffic traveling east on Lanikaula Street to connect to Kilauea Avenue will be able to continue directly into the downtown sector of old Hilo town.

An appraisal report to evaluate the potential economic impacts to the affected landowners involved in the project's metes and bounds was conducted in February, 1997 by David Matsunami Appraisals. The Assignment and Summary is attached as Exhibit A. In brief, the report identifies the affected parcels by Tax Map Key numbers, the square footage to be taken, and the fair market value appraisal for the square footage to be taken. The affected landowners will be advised of the proposed improvements and how the project will affect their holdings.

Policy Revisions

No significant changes have been made to the project description in terms of the social, economic or environmental context of the project.

Coastal Zone Management Program

The proposed project alignment is located outside of the Special Management Area (SMA). It is within the State Coastal Zone Management Area and is subject to Act 91, Session Laws of Hawaii, which provides that the Coastal Zone Management Area now includes all land areas as well as marine waters extending to the limits of the State's Police power and management authority.

Act 258 amended Chapter 205A by adding two additional sets of objectives and policies, bringing the total to nine objectives and policies that must be addressed by the proposed project. They are:

Lanikaula/Manono Intersection Traffic Signal Improvements

Recreational Resources

The closest receiving waters would be Hilo Bay. Once completed, impacts from surface runoff resulting from the construction of the connection would be non-existent or negligible.

Historic Resources

No known historic or archaeological resources of significance are located within the project location. If during construction, any previously unidentified archaeological sites are encountered, the work shall be stopped and the State DLNR Historic Sites Office shall be contacted.

Coastal Ecosystems

It is anticipated that the nature of the traffic signalization will not significantly impact the Coastal Zone.

Coastal Hazards

There are no known hazards due to the subject action. The project site is located in Zone X, an area determined to be outside of the 500 year flood plain, according to the National Flood Insurance Program Flood Insurance Rate Map of September 16, 1988, panel 880 of 1900.

Public Participation

The existing E.A. review process for this will be required before construction can commence. The permits will require in their right, public participation to the extent that the concerns of the various publics are not addressed.

Beach Protection

The subject action will not result in an adverse impact to any beaches.

Alternatives Considered

No alternatives have been considered beyond the "No Action" alternative. This is due to the straight forward proposed action.

Lanikaula/Manono Intersection Traffic Signal Improvements

V. MITIGATION MEASURES

As discussed above under economic impacts, the traffic signalization design is proposed to mitigate potential adverse effects in the town of Hilo . There are no other changes from the proposed mitigation measures.

Construction related impacts will be mitigated by appropriate construction measures as prescribed by Department of Health regulation, construction standards and Hawaii County Police Department notification requirements. Traffic diversion may be required during the construction period and may cause some inconvenience but will only last until project completion. Noise and dust impacts should not be significant to residences due to the relatively small size of the construction site to the nearest residential sites.

VI. LIST OF AGENCIES CONSULTED IN THE PREPARATION OF THE ENVIRONMENTAL ASSESSMENT

ORGANIZATIONS AND AGENCIES

Agency Date of Consultation Date Comment Received

Comment Response

Federal

U.S. Army Corps of Engineers Operations Branch

U.S. Dept. of Agriculture Soil Conservation Service

U.S. Geological Survey Water Resources Division

State of Hawaii

Dept. of Land and Natural Resources
Division of Land Management

Dept. of Health Environmental Mgt. Division

Dept. of Transportation, Highways Division

Office of the Governor Office of State Planning Coastal Zone Management

Dept. of Agriculture Planning/Development

UH-Manoa - Environmental Center

UH-Manoa - Water Resources Research Center

Office of Environmental Quality Control

June 4, 1997

August 1, 1997

County of Hawaii

Date Comment Received

Planning Dept.

Dept. of Public Works

Office of Housing & Community Development

Department of Water Supply

Transit Agency

Fire Department

Police Department

Mr. Harry Eliason

August 8, 1997

August 26, 1997

Mr. William V. Brilhante

August 13,1997

August 26, 1997

Stephen K. Yamashiro Mayor



County of Nawaii

DEPARTMENT OF PUBLIC WORKS

25 Aupuni Street, Room 202 • Hito, Hawaii 96720-4252 (808) 961-8321 • Fax (808) 961-8630 Donna Fay K. Kiyosaki Chief Engineer

Jiro A. Sumada Deputy Chief Engineer

DEGEIVED

ENGINEERS SURVEYORS HAWAII, INC.

August 1, 1997

MR GARY GILL DIRECTOR
OFFICE OF ENVIRONMENTAL QUALITY CONTROL
235 S BERETANIA STREET SUITE 702
HONOLULU HI 96813

SUBJECT:

DRAFT ENVIRONMENTAL ASSESSMENT FOR THE PROPOSED LANIKAULA-MANONO TRAFFIC SIGNAL IMPROVEMENTS, SOUTH HILO, HAWAII TMK 2-2-27 AND 36

Your agency comments dated June 4, 1997 have been reviewed by our Public Works staff and also our engineering consultants, and we respond as follows:

- 1. Circulation of the subject Draft Environmental Assessment to affected property owners did not take place. We have corrected that oversight by printing and circulating the DEA to the subject property owners. The listing of owners is in the DEA in the Appraisal Report prepared by David Matsunami Appraisals, February, 1997. Your staff will be pleased to note that the DEA has been mailed to the property owners on July 14, 1997 and they will have thirty (30) days to respond not later than August 18, 1997. Comments received will be responded to if necessary. We appreciate your concern on this matter.
- 2. The proposed improvements at the Lanikaula-Manono intersection are predicated on the basis of safety for vehicles as well as pedestrians. Please examine the proposed improvements as shown on page II-6 to see how new signals for both traffic and pedestrians are depicted.
- 3. This response to your letter of June 4, 1997 will be included in the Final E.A. presently under revision and printing. This will be completed at the conclusion of the 30-day review period granted the subject property owners.

Thank you for your timely comments.

DONNA FAY K. KIYOSAKI, RE Chief Engineer

cc:

Engineers Surveyors Hawaii, Inc.



GARY GILL DIRECTOR

STATE OF HAWAII

OFFICE OF ENVIRONMENTAL QUALITY CONTROL

236 SOUTH BERETANIA STREET SUITE 702 HONOLULU, HAWAII 96813 TELEPHONE (808) 528-4186 FACSIMILE (808) 586-4186

June 4, 1997

The Honorable Donna Fay K. Kiyosaki, P.E., Director Department of Public Works, County of Hawai'i 25 Aupuni Street, Room 202 Hilo. Hawai'i 96720-4252

Dear Ms. Kiyosaki:

Thank you for your May 20, 1997, letter transmitting a draft environmental assessment for the Lanikaula-Manono Traffic Signal Improvements, South Hilo, Hawai'i, TMK 2-2-27 and 36. Page II-1 of the DEA states in part that "[t]he installation of the traffic system is in an existing urban-residential district and the right-of-way may result in some taking of private lands."

Section 11-200-9(a)(1), Hawai'i Administrative Rules, requires, among other things, that the proposing agency consult, prior to preparation of the draft environmental assessment, with "other agencies having jurisdiction or expertise as well as those citizen groups and individuals which the proposing agency reasonably believes to be affected." [Underscoring supplied]

The fact that the proposed action proposes taking portions of privately-owned property for rights-of-way for the project reasonably indicates to us that the owners of such properties will be affected by the proposed action. The list of organizations and agencies on page VI-1 of the DEA does not indicate that such consultations took place.

Also, state policy (HRS Chapters 26, 226, 264, 344) requires the promotion of alternative forms of transportation systems that reduce reliance on the private automobile, conserve energy, reduce pollution and provide safe accommodations for their users. Pursuant to this policy, please discuss what provisions are being made to: create bicycle lanes or facilities; promote pedestrian safety; and/or encourage other non-motorized modes of transportation.

Please submit a copy of the DEA to the owners of the properties to be affected by the project. Please also actively solicit their input and submit the results of this solicitation along with your response to this letter in the final environmental assessment. If there are any questions, please call Mr. Leslie Segundo, Environmental Health Specialist, at 586-4185.

Sincerely,

GARY GILL

Director of Environmental Quality Control

c: Eric Hee, Engineers Surveyors Hawaii, Inc.

Pred Rodriguez, Environmental Communications, Inc.

Stephen K. Yamashiro Mayor



Donna Fay K. Kiyosaki Chief Engineer

Jiro A. Sumada Deputy Chief Engineer

County of Hawaii DEPARTMENT OF PUBLIC WORKS

25 Aupuni Street, Room 202 • Hilo, Hawaii 96720-4252 (808) 961-8321 • Fax (808) 961-8630

August 26, 1997

ENGINEERS SURVEYORS HAWAII, INC.

MR WILLIAM V BRILHANTE 1342 KILAUEA AVENUE HILO HI 96720

SUBJECT:

DRAFT ENVIRONMENTAL ASSESSMENT FOR THE PROPOSED TRAFFIC SIGNAL IMPROVEMENTS AT LANIKAULA/MANONO INTERSECTION

TMK: (3) 2-2-27:9

We have received your comments on the subject EA dated August 13, 1997, and respond in the following.

Since you expressed objections and concerns regarding the acquisition of a portion of your parcel for the project, we have redesigned the intersection such that the traffic signal system can be constructed within the existing right-of-way fronting your parcel. There will be no acquisition of your property for this project.

Thank you for your comments.

DONNA FAY K. KIYOSAKI, P.E.

Chief Engineer

Engineers Surveyors Hawaii, Inc. cc:

ENG (B. Ishii)

WILLIAM V. BRILHANTE 1342 Kilauea Avenue Hilo HI 96720

96-67 EH

August 13, 1997

Mr. Galen Kuba Dept. of Public Works County of Hawaii 25 Aupuni St., Room 202 Hilo, HI 96720

> Re: Lanikaula-Manono Traffic Signal Improvements TMK: 3/2-2-36-92

Dear Mr. Kuba:

In response to a memo I received from your office dated July 14, 1997, I am not in favor of the proposed acquisitions of private lands to accomodate the traffic light project.

My original intention for my property on Lanikaula Street was to subdivide the parcel into two 10,000 sq. ft. lots or eventually attempt to rezone the property into the Industrial-Commercial Mixed District Classification (MCX). As you know in both cases, I would need to have a minimum of 20,000 sq. ft. which is my present lot size.

I am opposed to this condemnation process as it would jeopardize my ability to develop my property in the future. I strongly feel in all fairness some consideration should be given to the major devaluation I would encounter. Unless my property would be "exempt" or "grandfathered" to be allowed for the uses I had intended for this parcel, I cannot be in favor of proposal.

Galen, as always, I appreciate all the help you've given us in the past and I thank you for allowing me to respond to your proposal. Please feel free to call me should you have any questions.

Sincerely,

William V. Brilhante

Owner

Stephen K. Yamashiro Mayor



County of Nawaii DEPARTMENT OF PUBLIC WORKS

25 Aupuru Street, Room 202 • Hilo, Hawaii 96720-4252 (808) 961-8321 • Fax (808) 961-8630

August 26, 1997

Donna Fay K. Kiyosaki Chief Engineer

Jiro A. Sumada Deputy Chief Engineer

ENGINEERS SURVEYORS HAWAII, INC.

MR HARRRY ELIASON 155 WAILUKU DRIVE HILO HI 96720

SUBJECT:

DRAFT ENVIRONMENTAL ASSESSMENT FOR THE PROPOSED TRAFFIC SIGNAL IMPROVEMENTS AT LANIKAULA/MANONO INTERSECTION

TMK: (3) 2-2-036:77

We have received your comments on the subject EA dated August 8, 1997, and respond in the following.

Since your clients expressed objections and concerns regarding the acquisition of a portion of their parcel for the project, we have redesigned the intersection such that the traffic signal system can be constructed within the existing right-of-way fronting your clients parcel and removal of their landscaping will not be required. There will be no acquisition of their property for this project.

Also, there will be no construction of curbs and gutters fronting their parcel. The new asphalt concrete pavement will match into the existing elevations of the street fronting their property. Thus your clients' driveway will not be touched and the drainage situation fronting your clients' parcel will remain unchanged. There is an existing drainage drywell near the corner of your lot. We will adjust the grating to intercept storm runoff from the new curb and gutter fronting your neighbor's lot. At the improved intersection, drywells will be constructed to dispose of storm runoff.

We would like to clarify that the David Matsunami appraisal is limited to the fee portion of the anticipated taking for the improvements. It is our intention to negotiate with owners the value of any landscaping or improvements that would be removed for this project. However, there will be no removal of landscaping or improvements from your clients' lot.

Thank your for your comments.

DONNA FAKK. KIYOSAKI, P.E.

Chief Engineer

Engineers Surveyors Hawaii, Inc cc:

ENG (B. Ishii)

August 8, 1997

Mr. Galen Kuba Department of Public Works County of Hawaii 25 Aupuni Street Room 202 Hilo, Hawaii 96720-4252 155 Wailuku Drive Hilo, Hawaii 96720 808-934-0461 808-934-0532 fax



ENGINEERS SURVEYORS HAWAII, INC

SUBJECT:

LANIKAULA-MANONO TRAFFIC SIGNAL IMPROVEMENTS

TMK: (3) 2-2-036: 0

Dear Mr. Kuba:

I represent Lou and Gail Rhoades, homeowners in the above project area. This letter is in response to the Draft Environmental Assessment. My clients are homeowners in the South Hilo Waiakea Houselots, 1st series, their home is identified in your papers as Parcel 6. They have several objections to and concerns about this project as presented.

Mr. and Mrs. Rhoades purchased their home approximately one and one-half years ago. They were not put on notice that any plans were being considered for construction or repair of streets near their home. They purchased the home primarily due to the large lot the home was built upon. In their investigation of the property prior to purchase they were told that due to the lot having frontage of 100 feet and depth of 220 feet, this property could be sub-divided into two lots and a second residence built upon the second lot. The high price paid for the house was in large part due to the ability to sub-divide. Their reserve plan was that if the house proved to be too expensive for their incomes, they could save their home by sub-dividing the lot. The proposal to remove five feet from the front of their lot puts that plan in jeopardy and impairs the entire value of their investment.

After they purchased the house they spent a large sum of money and countless hours of work landscaping and planting trees on the portion of the lot that borders Manono Street. Most of their improvements fall within the proposed five foot taking by the county or so near to it that the end result will be that the value of those improvements will be totally lost. Prior to planting the trees they carefully researched various plants and trees in order to determine which plants and trees were suitable for Hawaiian climate and in accord with Hawaiian concepts of appropriate house landscaping. Many people have remarked that the landscaping has improved not only their lot but also the entire street. Each tree was planted into a hole dug three feet into the ground and three feet wide. The hole was back-filled with cinder soil mix in order to assist the trees to properly root. They carefully cared for the trees and they have thrived. The David Matsunami Appraisal values the proposed taking from their lot at the sum of \$2,100. That amount is only a fraction of the value of the landscaping, plants and trees that will be destroyed. We

believe it is very likely that the Appraiser viewed the property prior to the landscaping work being initiated. We request a new appraisal be performed for their lot in order to have the value of the plantings and landscaping included in the appraisal.

My clients are also very concerned about the water drainage problem this project is likely to cause for their property. A very similar project was carried out by the county at the intersection of Manono Street with Kekuanaoa, approximately one block from their home. This intersection now has major flooding problems during even moderate rains. The elevation of the street in front of their home as compared to their lot makes it obvious that the proposed project will redirect rain run-off from the Lanikaula-Manono intersection into their yard and cause flooding of their basement.

The new curb and gutter that is proposed will, if installed, cause a problem with their existing driveway. The curb will be higher than the existing driveway causing a nasty bump as they drive from the street onto their property. They have spoken to other people who have experienced projects like the one that you propose and discovered that after construction ruined their driveways the construction companies working on the project charge the home owners money to repair the damage. If the homeowner refused to pay, the driveway damage was not repaired.

My clients like their home and yard the way it is today. The lot is large and can be subdivided in the future. The yard is attractively landscaped and planted with beautiful and healthy plants and trees. The lot has good drainage and there has never been a problem with water in the basement. Their driveway is in great condition. If this project goes forward each one of these positive features of their home will be damaged. My clients accept the fact that they will not be able to stop the project, however, they do not accept the fact the county proposes to pay them a sum of money far less than the value of the property taken.

My clients request that this letter be included in the Final Environmental Assessment to document their resolute opposition to the county proposal as it pertains to their property.

Very truly yours,

Harry/Éliason

cc: Lou and Gail Rhoades

Engineers Survevors Hawaii, Inc.

APPRAISAL REPORT OF THE PARTIAL TAKINGS AFFECTING NINETEEN LOTS COMPRISING THE LANIKAULA-MANONO TRAFFIC SIGNAL IMPROVEMENTS

Located at Various Tax Map Keys In Hilo, Hawaii

Prepared for Engineers Surveyors Hawaii, Inc. 1020 Auahi Street Honolulu, Hawaii 96814

DAVID MATSUNAMI APPRAISALS February 1997

Exhibit A.

ASSIGNMENT AND SUMMARY

Assignment

Our assignment has been to estimate the market value of the fee simple interest in the proposed takings located near the intersection of Lanikaula and Manono Streets. The function of this report is to provide real property information, market data and an informed value conclusion for roadway condemnation purposes. The date of valuation is February 13, 1997.

Summary of Conclusions

Our conclusions based on our inspection of the subject properties and an analysis of market data, are summarized as follows:

- The subject takings are located in Hilo near the intersection of Lanikaula and Manono Streets. The neighborhood is primarily comprised of residential properties.
- 2) The County is proposing to take approximately five feet of the existing frontage off each of the affected lots.

David Matsunami Appraisals

Real Estate Valuation

91-942 Kuae'ewa Place * Ewa Beach, HI 96706 * Phone : (808) 683-0712

February 21, 1997

Mr. Eric Hee Engineers Surveyors Hawaii, Inc. 1020 Auahi Street Honolulu, Hawaii 96814

Dear Mr. Hee:

We have completed the appraisal of the fee simple interest in the proposed takings located near the intersection of Lanikaula and Manono Streets. The sites underlying the proposed takings are identified on Hawaii Tax Maps as being Third Division Tax Map Keys 2-2-27, Parcels 8, 9, 10, 42, 43, 44, 55, 76, 84, 2-2-36, Parcels 76, 77, 91, 92, 136, 2-2-50, Parcels 2, 4, 5, 9, and 102. The subject parcels are currently zoned Residential RS-10. Three of the lots are currently being utilized as industrial/commercial properties. At your request, we have valued these properties in accordance with their current non-conforming uses. Since this assignment required the affected land value only, the structures contributory values have been ignored in this assignment.

Our analysis and the data disclosed by our research and investigation are set forth in the following report. It is our opinion that as of February 13, 1997, subject to the assumptions and limiting conditions outlined within the report, that the market values of the fee simple interest in the proposed takings are as follows:

Parcel 1:	2-2-27-84	500sf	4.0000
Parcel 2:	2-2-27-44		\$ 3,900
_		500sf	\$ 2,300
- ·	2-2-27-55	1,168sf	\$ 9,100
Parcel 4:	2-2-27-43	500sf	\$ 3,800
Parcel 5:	2-2-27-42	500sf	
Parcel 6:	2-2-36-77	500sf	\$ 2,500
Parcel 7:	2-2-36-76		\$ 2,100
Parcel 8:		1,731sf	\$21,100
	2-2-36-92	563sf	\$ 2,500
Parcel 9:	2-2-36-136	79sf	\$ 50 <u>0</u>
Parcel 10:	2-2-36-91	483sf	\$ 3,400
Parcel 11:	2-2-50-102	70sf	
Parcel 12:	2-2-50-9	493sf	\$ 400
Parcel 13:	2-2-50-5		\$ 3,500
Parcel 14:		40sf	\$ 200
-	2-2-50-4	523st	\$ 7 ,30 0
Parcel 16:	2-2-50-2	693sf	\$ 8,500
Parcel 17:	2-2-27-76	429sf	¢ 2,200
Parcel 18:	2-2-27-10	1,668sf	•
Parcel 19:	2-2-27-9		\$ 8,500
Parcel 20:		500sf	\$ 2,300
	2-2-27-8	500sf	\$ 2300

I appreciate the opportunity to have worked on such an interesting assignment. If you have any further questions or concerns, please feel free to call me on Oahu at 683-0712.

Yours Sincerely,

David K. Matsunami, CGA Certified General Appraiser #CGA-45 Exp. 12/31/97

Tris work was prepared by under my direct supervision SCALS : 1 IN. = 200 FT.	
SUBMITTED BY:	Gr. 12141 ×: Gr. 12140 Lot 15 VI Lot 6 Gr. 12814 Cr. 12672 Lot 14 Co Lot 7 Gr. 12209 Gr. 12185 Lot 13 Lot 8 Gr. 12258 Co Lot 8-A Lot 8-B KAWILI STREET

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STREET	B L O C K LOT 14-	J 4	True North SCALE: 1 IN. = 40 FT.
J. LOT 13 3,438.00 8,791.00 8,791.00 8	270' 00' — 00'001 G LOT 14 9,500 SO. 90' 00' — 90' 00' — PAR 500	5.00 100.00 100.00	Grant 8754 LOT 15-A
Grant 87 LOT 1 This work was prepared by me or under my direct supervision. Kendall Ni, m. mee		;	-3RCE' 19 Grant 8677 LOT 3−A
_censed Professional Land Surveyor Certificate Number 5649 ENGINEERING DIVISION		ORKS ~ COUNTY	
UBMITTED BY: ONGINEERING DIVISION CHEF PPROVED BY OMEF ENGINEER	Being	a-Manono Traffic Si Project Number PARCEL 1 and LO g portions of LOT 1 (Grant 8753 to daiakea House Lots, S. Hilo, Island	x-xxxx OT 14-A1 4-A, Block 34 x y) 1st Series

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Grant 9427 LOT 11-B	270' 00' — 100	Grant 8751 LOT 12-A	PARCEL 3
4	B:LOCK	3:4	14h 10 FF.
LOT 14-B		<u>.</u> _	TIN
81 53 88	815	* 500.000 * 500.000	SCALE:
	8 LOT 15-A 19,500 SQ. FT.	0.5	
, o ,	, ,	50,00	0 N O
) LOT 14–A1 281		0.00	WANON
3,438.00 S_	PARCEL 2 - 500 SQ. FT. or 0.011 ACR	:\	
8,891.00 E "HALA" \(\triangle \)		DO SURCEL 3	
	90°00' — 100.00	5.00	
	LANIKAULA	STREE	7
:	2180 <u>6</u> .3	⊃aRO£i .8	
This work was prepared by me a under my direct supervision.	ır		
	Grant 8677 LOT 3-A	Grant 8980 LOT 4-A	
Cendali N. H. Hee Scensed Professional Land Survey Certificate Number 5649		. 43	
ENGINEERING D			OF HAWAII
		Lanikaula-Manono Traffic Sigr	nal Improvements
AITTED BY:		Project Number x	
ENGINEERING D	IVISION CHEF	PARCEL 2 and LO Being portions of LOT 1	
ROVED BY:	GNEER CAFE	(Grant 8754 to :	ку) [
- H -	····	Waiakea House Lots, Waiakea, S. Hilo, Island of	Hawaii, Hawaii
Man your rains, " 11		Figh by: For no Drawn by: 55H inc.	

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	1	্ %	· .		SCALE
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	270° 00'	<u> </u>	,]		"
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	00.00	•	1 8	~	133
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	8,832	SQ. FT.	180	E	Grant 8785 LOT 13-A
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=2RCH_2	7 270 00'	65.00			
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			└ PAR	CEL 3 'SQ. FT.	
	LANIK	AULA	or 0.0	127 ACRE	STREET
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This work was prepared by me or	Genet	8980		≥	C+ 880C
under my direct supervision,		4-A	•	₹	Grant 8806 LOT 1-A
	<u> </u>				
Kenadii N. H. Hee Licensed Professional Land Surveyor Certificate Number 5649	A		÷		
	BLOCK	4 3	ı ,		BLOCK 4
ENGINEERING DIVISION	ON ~ DEPT. OF		RKS ~	COUNTY	OF HAWAII
		Lanikaula-	-Manono	Traffic Sig	nal Improvements
UBMITTED BY:		_		Number x	
ENGINEERING DIVISION	CHIEF			and LO	
PPROVED BY:		Denig	(Grant	8718 to	5-A, Block 34
CHEF ENGINEER		Wai	akea Hou	se Lots,	1st Series
		Waiakea,	S. Hilo,	Island of	f Hawaii, Hawaii
ax Vap Kev: 2-2-27 : 55		100 DV 138	rc Drawn		T. 4 OF 19 SHT

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LOT 12-A 270 00' - 100.00 35.00 SO. FT. 500 SO. FT			Grant 8751	? ?		EL 6	
### PROVED BY				PARCI		PARC	
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Grant 8754 LOT 15-A STREET LANIKAULA STREET LANIKAULA STREET AND 11-A LOT 16-A1 STREET Consum only origination Lind Surveyor Certificate humber 3549 ENGINEERING DIVISION ~ DEPT. OF PUBLIC WORKS ~ COUNTY OF HAWAII SUBMITTED BY: SUBMITTED BY: STREET LOT 16-B1 Being portions of LOT 16-B, Black 34 (Grant 8718 to x y) Waickea D. S. T. S. Series Woinkea, S. Hillo, Island of Hawaii, Hawaii		700		100	=	:	E
Grant 8754 LOT 15-A STREET LANIKAULA STREET LANIKAULA STREET ARCEL 75 Grant 8886 LOT 1-A LOT 16-A1 STREET Considering order accordance by rea or under my order accordance humber 5549 Reconsider by order accordance by rea or under my order accordance humber 5549 Reconsider by order accordance by rea or under my order accordance humber 5549 Reconsider by order accordance by rea or under my order accordance by read a			IOT 16-B1	1	~		Nort!
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STREET LANIKAULA LOT 16-A1 LOT 16-B1 Being portions of LOT 16-B1		180.	. ^	180			7
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LANIKAULA STREET LANIKAULA STREET LANIKAULA STREET ARCEL 15 LANIKAULA STREET ARCEL 15 Grant 8806 LOT 14-A LOT 14-A LOT 14-A BLOCK 4 4 ENGINEERING DIVISION ~ DEPT. OF PUBLIC WORKS ~ COUNTY OF HAWAII LORINGUL BY: SUBMITTED BY: SUBMITTED BY: SUPPROVED BY: SUPPROVED BY: SUPPROVED BY: SUBMITTED SUBMITTED BY: SUPPROVED BY: SUPPROVED BY: SUBMITTED		1	3,34	3.00 S	:	.7	
LANIKAULA STREET LANIKAULA STREET This work was prepared by me or under my direct substrated by me	[0] 15 ⁻ A	<u> </u>	, \$ 9,08 *HA	6.00 E . *LA!	!	RCEL	
LANIKAULA STREET LANIKAULA STREET ARCEL 15 Canat 8980 LOT 14-A LOT 14-A LOT 14-A LOT 14-A LOT 14-A BLOCK 4 3 BLOCK 4 4 ENGINEERING DIMSION ~ DEPT. OF PUBLIC WORKS ~ COUNTY OF HAWAII EUBMITTED BY: SHAPEROVED BY: SHAPEROVED BY: SHAPEROVED BY: SHAPEROVED BY: STREET ARCEL 15 Canat 8980 LOT 1-A BLOCK 4 4 BLOCK 4 3 BLOCK 4 3 BLOCK 4 4 BLOCK 4 3 BLOCK 4 4 BLOCK 4 4 BLOCK 4 4 Country OF HAWAII Being portions of LOT 16-B, Block 34 (Grant 8718 to x y) Waiakea House Lots, 1st Series Waiakea, S. Hilo, Island of Hawaii, Hawaii		;		;	0	a i	
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LANIKAULA STREET LANIKAULA STREET LANIKAULA STREET ARCEL 15 Grant 8980 LOT 1-A B L O C K 4 4 ENGINEERING DIVISION ~ DEPT. OF PUBLIC WORKS ~ COUNTY OF HAWAII SUBMITTED BY: SPPROVED BY: DHEF ENGINEER DHEF ENGINEER LANIKAULA STREET ARCEL 15 Grant 8806 LOT 1-A B L O C K 4 4 B L O C K 4 4 Lanikaula—Manono Traffic Signal Improvements Project Number x—xxxx PARCEL 4 and LOT 16—B1 Being portions of LOT 16—B, Block 34 (Grant 8718 to x y) Waiakea House Lots, 1st Series Waigkea, S. Hilo, Island of Hawaii, Hawaii		! :	LOT 16-A1		. ≥		
This work was predated by me or under my direct supervision. Grant 8980 LOT 4-A LOT 1-A B L O C K 4 4 ENGINEERING DIVISION ~ DEPT. OF PUBLIC WORKS ~ COUNTY OF HAWAII SUBMITTED BY: SU						1	
This work was predated by me or under my direct supervision. Grant 8980	PARCEL 2	·	PARCEL 3		_	; !	
This work was predated by me or under my direct supervision. Grant 8980 LOT 4-A BLOCK 43 ENGINEERING DIVISION ~ DEPT. OF PUBLIC WORKS ~ COUNTY OF HAWAII Lanikaula—Manono Traffic Signal Improvements Project Number x-xxxx PARCEL 4 and LOT 16-B1 Being portions of LOT 16-B, Block 34 (Grant 8718 to x y) Waiakea House Lots, 1st Series Waiakea, S. Hilo, Island of Hawaii, Hawaii							
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ENGINEERING DIVISION ~ DEPT. OF PUBLIC WORKS ~ COUNTY OF HAWAI Lanikaula-Manono Traffic Signal Improvements Project Number x-xxxx PARCEL 4 and LOT 16-B1 Being portions of LOT 16-B, Block 34 (Grant 8718 to x y) Waiakea House Lots, 1st Series Waiakea, S. Hilo, Island of Hawaii, Hawaii	censed Professional Land	Surveyor		43	•	- <u>- </u>	BLOCK 44
Lanikaula—Manono Traffic Signal Improvements Project Number x—xxxx PARCEL 4 and LOT 16—B1 Being portions of LOT 16—B, Block 34 (Grant 8718 to x y) Waiakea House Lots, 1st Series Waiakea, S. Hilo, Island of Hawaii, Hawaii				PUBLIC	works ~		
PARCEL 4 and LOT 16—B1 Being portions of LOT 16—B, Block 34 (Grant 8718 to x y) Waiakea House Lots, 1st Series Waiakea, S. Hilo, Island of Hawaii, Hawaii				Lanika	Project	i Number	x-xxxx
Grant 8/18 to x y) PPPROVED BY:	SUBMITTED BY:	ERING CEVISION CHIEF	378	-	PARCEL	4 and L	OT 16-B1
APPROVED BY:			7.*TF	Bei	(Gran	1t 8/18 t	0 X Y)
	PPROVED BY:	CHIEF ENGINEER		— Waiake	Waiakea Ho ea. S. Hilo	ouse Lots Island	of Hawaii, Hawaii
Glob But the Drawn Ey, 128 inc. Drawn Ey, 128 inc. Drawn Ey, 128 inc.						wn Ey: IEH.	inc. Date: Jelloury 22

-	Grant 8.07 6 107 270' 00' 195.0		·	True North	SCALB: 1 IN. = 40 FT. To Leilani Avenue	Grant 8805 LOT 9
	276 June 195.00 SO 195.00	8 7 ^{5 1}	5.0000 .00100 .00100 .00100 .00100 .00100 .00100 .001001 .001	,00 b		Grant 9812 B L O C K 3 5 LOT 11-A
	Grant 8754 LOT 15-A This work was prepared by me or under my direct supervision. Kendali N. H. Hee Ucensed Professional Land Surveyor	LOT 1	6-B1 8 ¹	PARCIT 3	MANONO To tanikaula Street	PARCEL 7 Crant 8785 LOT 13-A
	ENGINEERING DIVISION ~ DEPT. SUBMITTED BY: ENGINEERING DIVISION CHEF ENGINEERING DIVISION CHEF APPROVED BY: CHEF ENGINEER	Lanik	Project N Project N PARCEL 5 Being portions (Grant 8 Waiakea House	affic Sigrumber xond LO of LOT 13751 to be Lots,	-xxxx T 12-A 2, Block x y) 1st Serie f Hawaii.	vernents

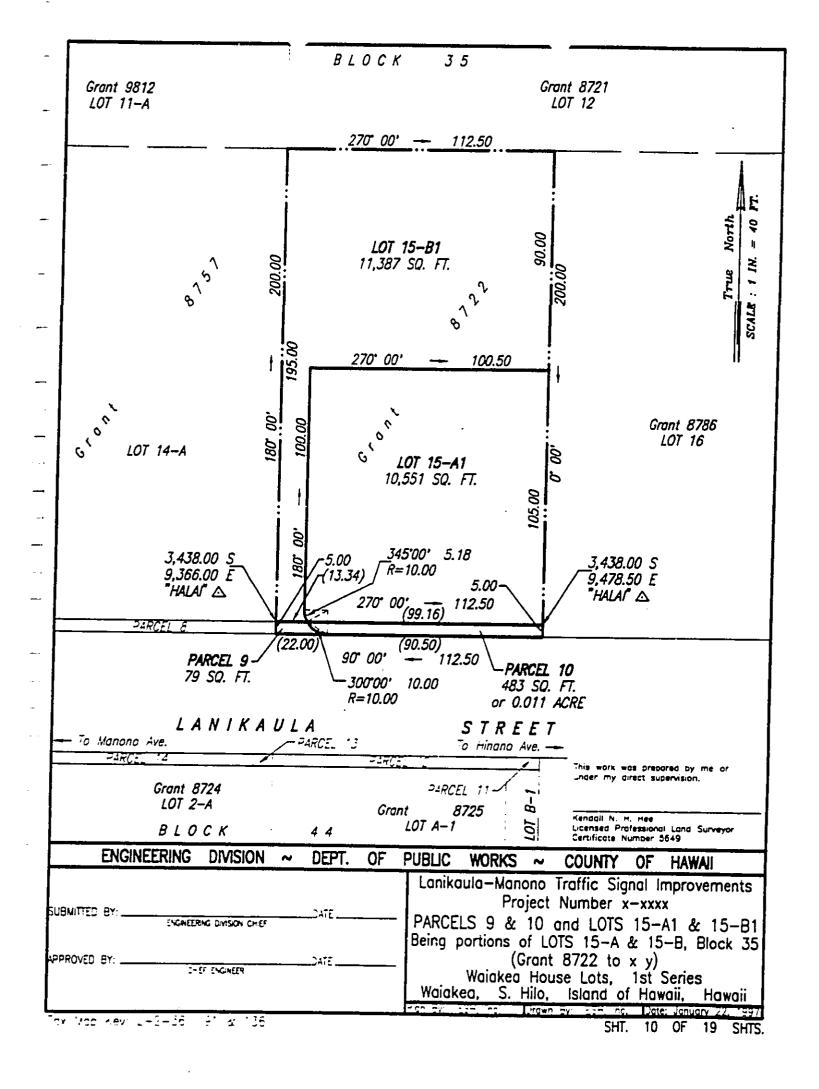
True North SCALE: 1 IN. = 40 FT. Io Leilani Avenue	Grant 8805 LOT 9 270' 00' — 225.00 220.00	Grant 8756
S T R	220.00 0.00 0.00 1.07 11-A 22,000 SQ. FT. 5.00 220.00	Grant 8721 LOT 12
PARCEL 6- 500 SQ. FT. or 0.011 ACRE	90° 00° — 225.00 3,243.00 S 9,146.00 E "HALAI" △	Grant 8722 LOT 15-81
M No Lunikaula Street	Kendali h. n. nee Licensed Professional Land Surveyor Certificate Number 5649	
ENGINEERING	DIMSION ~ DEPT. OF PUBLIC WORKS ~ COUNTY OF HAWAII Lanikaula-Manono Traffic Signal Improvem Project Number x-xxxx	ents
IRROPOSED BY:	PARCEL 6 and LUI 11-A Being portions of LOT 11, Block 35 (Grant 9812 to x y) Waisken House Lots, 1st Series	woii 2. 33 SHT

Grant 8751 LOT 12-A		3,243.00 S 9,146.00 E "HALA" \(\triangle \)	Grant 98 LOT 11-	BLOCK 35	
PARCEL 3 4 PARCEL 3 PARCEL 3 PARCEL 3 PARCEL 3	MANONO	5.00 00.001 -5.00 -5	7.50 7.50 7.50 7.50 7.50 7.50 7.50 7.50	50	True North SCALE: 1 IN 40 FT.
LANIKAUL	PARCEL 7- 1,731 SQ. F or 0.040 ACI A		E T	"his work was preban under my direct sube	
Grant 8980 LOT 4-A ENGINEERIN	g division		Grant 8806 K LOT 1-A PUBLIC WORK	S ~ COUNTY OF	HAWAII
	INEERING DVISION CHIEF CHIEF ENGINEER	CAVE	PAF Being (anono Traffic Signal In Project Number x—xxxx RCEL 7 and LOT 13 portions of LOT 13, Bl (Grant 8785 to x y) (ea House Lots, 1st S S. Hilo, Island of Haw	k I–A ock 35 Series Pail, Hawaii

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Cont. 9812 LOT 13-A S LOT 14-A LOT 15-B1 S LOT 15-A1	- [B L 0	
270' 00' — 112.50. LOT 15-B1 SE LOT 15-B1 SE LOT 15-B1 SE LOT 15-A1 PARCEL 10 PARCEL 10 PARCEL 10 PARCEL 9 SS J SD. FT. OF 00' — 112.50 PARCEL 9 SS J SD. FT. OF 00.013 AGRE L A N I K A U L A ST R E E T To Mannon Ave. DERCEL 15 ST RE T To Mannon Ave. This war, was prepared by me or under my orrect supervision. Grant 8724 LOT 15-B1 LOT			Grant 8721 LOT 12
LOT 15-B1 SE LOT 15-B1 SE LOT 15-B1 SE LOT 15-B1 SE LOT 15-A1	-		440.50
LOT 15-B1 See LOT 15-A1	ļ		112.50
LOT 15-B1 Section	-		
Solution	İ		45 64
Second	-	·	
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S S S S S S S S S S		300.	
LOT 13-A S LOT 14-A 21,937 SO. FT. S LOT 15-A1			8
LOT 13-A S LOT 14-A 21,937 SO. FT. S LOT 15-A1		00	
JARCEL 8 PARCEL 8 S T R E E T To Manono Ave. DARCEL 15 STANDER 15 STANDE	-		
JARCEL 8 PARCEL 8 S T R E E T To Manono Ave. DARCEL 15 STANDER 15 STANDE			
JARCEL 8 PARCEL 8 S T R E E T To Manono Ave. DARCEL 5 STANDEL 10 STANDEL 10 STANDEL 10 STANDEL 10 AND I KAULA STANDE 10 STANDEL 10 STANDEL 10 This work was prepared by me or under my direct supervision. Grant 8724 LOT 15-A1 LOT 15-A1 PARCEL 10 STANDEL 10 STANDEL 10 This work was prepared by me or under my direct supervision. Grant 8724 LOT 2-A Kendali N. F. Hee Licensed Professional Land Surveyor	-	LOT 13-A S 21,937 SG	- A D. FI. 8
3,438.00 S 9,253.50 E "HALAT \(\triangle \) 270' 00' - 112.50 PARCEL 8 563 SQ. FT. or 0.013 ACRE L A N I K A U L A STREET To Manono Ave. SARCEL 'S Grant 8724 LOT 2-A Kendali N. F. Hee Licensed Professional Land Surveyor		881	o
3,438.00 S 9,253.50 E 75.00 5.00 PARCEL 8 90° 00° — 112.50 PARCEL 9 FARCEL 9 PARCEL 9 STREET To Manano Ave. STREET To Hinano Ave. STREET To Hinano Ave. This work was prepared by me or under my direct supervision. Grant 8806 Grant 8724 LOT 2-A Kendall N. F. Hee Licensed Professional Land Surveyor	-		
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9,253.50 E "HALAI" \(\triangle \) 270" 00" - 112.50 PARCEL 8 563 SQ. FT. or 0.013 ACRE LANIKAULA STREET To Manono Ave. PARCEL 15 STREET To Hinano Ave. This work was prepared by me or under my direct supervision. Grant 8724 LOT 2-A Kendali N. F. Mee Licensed Professional Land Surveyor		3.438.00 S	
PARCEL 8 563 SQ. FT. or 0.013 ACRE LANIKAULA STREET TO Manono Ave. DARCEL 9 STREET To Hinano Ave. DARCEL 15 Grant 8724 LOT 2-A Kendali N. F. Hee Licensed Professional Land Surveyor		9,253.50 E \	
PARCEL 8— 563 SQ. FT. or 0.013 ACRE LANIKAULA STREET TO Manono Ave. DARCEL 15 DARCEL 15 STREET To Hinano Ave. This work was prepared by me or under my direct supervision. Grant 8724 LOT 2-A Kendall N. F. Hee Licensed Professional Land Surveyor		DARCEI	
563 SQ. FT. or 0.013 ACRE LANIKAULA STREET To Manono Ave. DARCEL '5 Grant 8724 LOT 2-A Kendall N. H. Hee Licensed Professional Land Surveyor		l /	
LANIKAULA STREET To Manono Ave. DARCEL '5 Grant 8724 LOT 2-A Kendall N. F. Hee Licensed Professional Land Surveyor		563 SQ. FT.	
To Manono Ave. DARCEL '5 Grant 8724 LOT 2-A Kendall N. F. Hee Licensed Professional Land Surveyor			STREET
Grant 8724 LOT 2-A Kendall N. F. Hee Licensed Professional Land Surveyor		— To Manono Ave.	
Grant 8806 LOT 2-A Kendall N. H. Hee Licensed Professional Land Surveyor	. i		under my direct supervision.
			LOT 2-A
COUNTY OF HAMAN		LOT 1-A BLOCK	4 4 Certificate Number 5849
ENGINEERING DIVISION ~ DEPT. OF PUBLIC WORKS ~ COUNTY OF HAWAII Lanikaula—Manono Traffic Signal Improvements		ENGINEERING DIVISION ~ DEPT. OF	1 OBEIG HOIMS
Project Number x-xxxx			Project Number x-xxxx
SUBMITTED BY: ENGINEERING DATSION CHIEF PARCEL 8 and LOT 14-A Being portions of LOT 14, Block 35			PARCEL 8 and LOT 14-A Reing portions of LOT 14, Black 35
[Grant 8/5/ to x y)		LOGROUED BY:	(Grant 8/5/ to x y)
Waiakea House Lots, 1st Series Waiakea S. Hilo. Island of Hawaii, Hawaii		EDPRIIVIT ET	Waiakea House Lots, 1st Series Waiakea S. Hilo. Island of Hawaii, Hawaii
Fig. by: -30 inc. Drawn by: -37 inc. Date: Johnsty 22, 397			Figh By: 13H, Inc - Drawn By: 13H, Inc Date: January 22, 1997

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	•	5 B L O	CK 35		
ł	Grant 8757	16-81 B T O	Grant 8722	i	Grant 8786
	LOT 14-A	101	LOT 15-A1	ŀ	LOT 16
-	PARCEL 8		PARCEL 10		
_	To Manono Ave.				To Hinano Ave. —
	LANIK	PARCEL .	-	STREET	
ł	LAHIN	NULN			
		PARCEL 12-		PARCEL 11	
ł		493 SQ. FT. \ or 0.011 ACRE\ 270° 0	0' 112.50	/ 70 SQ. FT.	
	PARCEL 1.	or 0.011 ACRE\ 270° 0	(98.50)	(14.00)	
	DINCET .S		(0.000)	47	<u> </u>
ł	7 400 00		(98.50) 5.00 D' - 112.50	3,498.00	S
1	3,498.00 9,366.00		(14.00)—/	9,478.50 14 HALAS	
1	"HALAI" 2	7_	(11.00)		. L
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	Grant 8724	:	•		II
	LOT 2-A	:			
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		90 00	98.50	0 00.	LOT B
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	<u> </u>	00:00:	112.50		 -
		90 00	112.50		s prepared by me or rect supervision.
	Grant 10682			2,022, 11,7, 21	
	LOT A		4	Kendali N. H	
		BLOCK	4		Pessional Land Surveyor
	ENCINICEDIMO D	IVISION ~ DEPT. (F PUBLIC WOR		OF HAWAII
	ENGINEERING D	IVISION ~ DEPI. C	فالتحارب والمراجع والم والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراج	Manono Traffic Sig	
				Project Number x	
SUBMIT	TED BY:		PARCEIS 1	1 & 12 and 10	OTS A-1 & B-1
	ENGINEERING I	DYISON CHEF	Being po	ortions of LOTS A	& B. Block 44
מפפט.	WED 84:			(Grant 8725 to	x y)
HERV	CHIEF E	NGINEER	Waia	kea House Lots.	1st Series
				S. Hilo, Island of	Hawaii, Hawaii
بيا	San anu	à 112	- GC	: Drawn dv: 12d inc SHT.	11 OF 19 SHTS
Y	7dd Hevril—2-50 - 9	SAL LA		J1117	

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-	To Manond Ave.	LANIKA	11 1 A	270' 0 <u>0'</u> 8.00	STR	E E T
		LANINA	-18CE	47	=ARCE	
th	24RCEL :5		(5. PARCEL 40 SQ. F 90	00)	3,498.00 S 9,366.00 E "HALAI" △	PARCEL 11—
True North	SCALR : 1 IN. = .	; ;		195.00) 200.00	LOT A-	4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
	Grant 8β06 LOT 1-A		Grant 8724 LOT 2-A	ø 00'	300.00 6 - 0 0 1	LOT B-1
	BLOC	κ	4 4 00' 104.			
	G r ^{a n t}	100.001	8 2 LOT A 12,810 SQ. FT. 10° 00° — 11		This work _nder my	was prepared by me or girect supervision.
		LOT 7-		12258	Ucensed	Professiona: Land Surveyor Number 5649
-	ENGINEERING				rks ~ county	
	atten av.	NEERING DIVISION CHIEF		Being a por	Project Number PARCEL 13 and rtion of Block 44 and Grant 1068	d LOT A Grants 8724 to : 2 to x y

		BLOCK	•	3 5 8 Grai	-1 0700
	Grant 8785 LOT 13-A		Grant 8757 LOT 14-A	<u> </u>	nt 8722 15-A1
	PARCEL	24,6	RCEL 8		PARCEL 10
- To Man	ono Ave.		PAR	CEL 9	To Hinano Ave. —
	LANIKAUL	or 0.012 ACI	r. RE	STREET	3
		270 00'	104.50		PARCEL 12
SCALE: 1 IN. = 40 FT.			7 2-A 7 SQ. FT.	3,498.00 9,358.00 "HALAI" 2	S
ENG	BLOCK Grant INEERING DIMSION	90.00.		This work we under my di Kendali N. Hicensed Pro Certificate N CS ~ COUNTY Ianono Traffic Sig	oF HAWAII
EUBMITTED BY: _	ENGINEERING DIVISION CHIEF CHIEF ENGINEER		PAI Being Waiak	Project Number > RCEL 14 and L portions of LOT (Grant 8724 to kea House Lots, S. Hilo, Island o	OT 2—A 2, Block 44 × y) 1st Series f Hawaii, Hawai

CORRECTION

THE PRECEDING DOCUMENT(S) HAS
BEEN REPHOTOGRAPHED TO ASSURE
LEGIBILITY
SEE FRAME(S)
IMMEDIATELY FOLLOWING

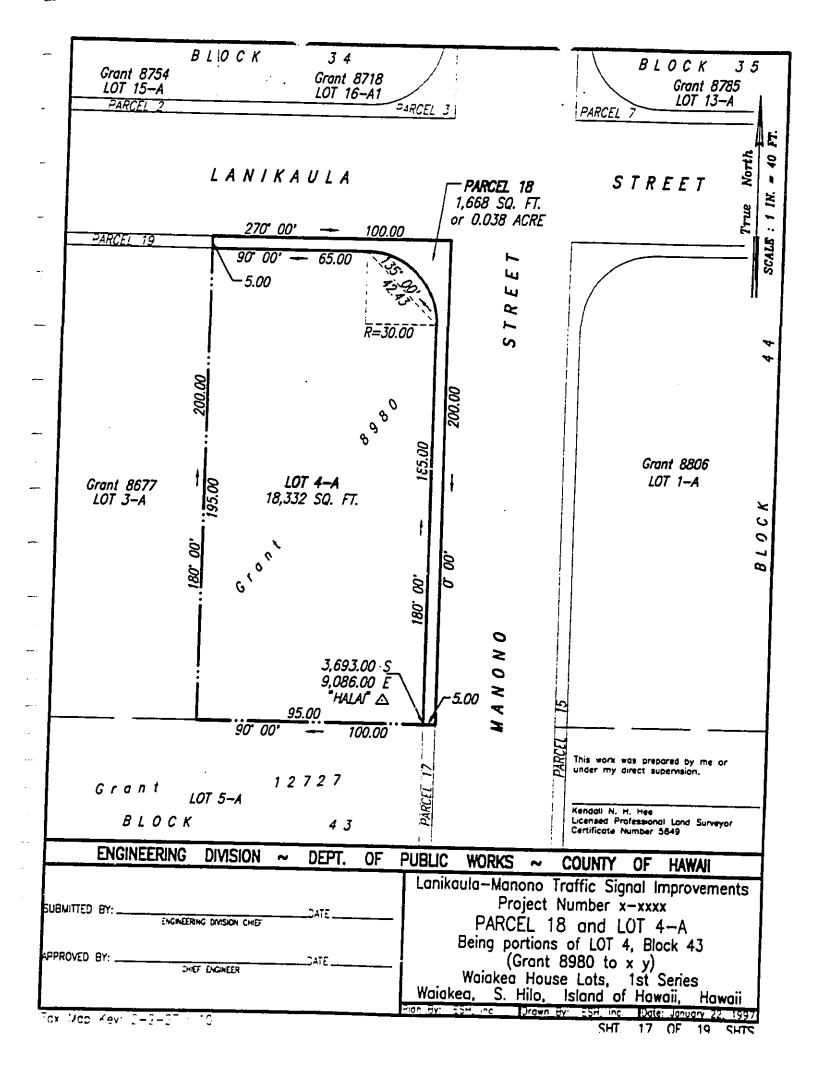
APPROVED SY:		ENGHEER				being p	Grant	8724	to x y	lock 44)
EUBMITTED BY:	ENGNEERING	OMSION CHEF				Pr PAR(oject CEL 1	Numbe 4 and	r x—xx: I LOT	2-A
ENGI	NEERING	DIMSION	~ DEPT.	OF	PUBLIC	WORKS		COUNT		HAWAII
	g rar	, t		L	OT A		:	Licensed	N. H. Hee Profession te Number	iai Land Surveyor 5649
			1 0 6	g 2				under m	y direct su	uggi viaiGN.
			90°	00'	104.	.50	 :			oared by me of
	B L	OCK		4	4					
		,								
	Grant 8806 LOT 1-A	180° 00°	G'O				0.00.	G'on	LO	T B-1
	Creat BONE	, .	6,00	`			-	<u>η</u>	1	:
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SCALE			6	LOT	T 2-A	1				8125
Tru 158 : 1		200.00			8,		200.00			
8 .×.					87	v*	8		LOT	A-1
North = 40 I										
E								9,358. *HALA	^r A	
1			90° 6 -5.00	00' -	- 104.	.50 5.00-/	$\langle \rangle$	3,498.	00 S	
	PARCEL 15		270			4.50	⋥			ARCEL 12
	EARII	, ,, ,, ,, ,,	1 020	SQ. FT. 012 ACH	RE			PARCEL	13	
	1 A N I I	KAULA		CEL 14		S	TR	EET		
- To Mano					<u> </u>	PARCE	ر و ر	7	Te	o Hinano Ave.
	LOT 1			218	201 14- CEL 8			<u>101</u>		PARCEL 10
		<i>8785</i>			Grant 87 LOT 14-		. !	<u> -</u>	OT 15-	AI

LANIKAULA	270' 00'	<u> </u>	TREET
PARCEL 15- 2,231 SQ. FT. or 0.051 ACRE	5 N. 15 90 R=30.00	5.00-2	3,498.00 S 9,253.50 E "HALA!" △
True North SCALE: 1 IN. = 40		8806	\$\lambda^2^*
4 3 SO.00	265.00		LOT 2-A
Grant 8980 S	10	T 1-A 9 SQ. FT. 00:562	•
7 O C K		B L O C K	<u>4 4</u>
N O N O N O 180' 00'	o. 00,	₁ 0 6	8 2
Grant 12727 (₹ ₹ LOT 5-A ₹	Gr ^{ont}		
Grant 12140 LOT 6 PARCEL 16	7-5.00 90 00'	7.50 112.50 Grant 12258 LOT 7-A	This work was prepared by me or under my direct supervision. Kenadii N. H. Hee Ucensed Professional Land Surveyor Certificate Number 3649
ENGINEERING DIMSION	~ DEPT. OF F	PUBLIC WORKS ~	
SUBMITTED BY: ENGINEERING DIVISION CHIEF APPROVED BY: CHIEF ENGINEER		Projec PARCEL Being portic (Grant 8806 to Waiakea H	Traffic Signal Improvements of Number x-xxxx 15 and LOT 1-A ons of LOT 1, Block 44 x y & Grant 10682 to x y) ouse Lots, 1st Series o, Island of Hawaii, Hawaii
Tax Map New 1-2-50 : 3	- Andrews	<u> </u>	SHT. 14 OF 19 SHTS

 -			
- E T	Grant	10682	North = 40 PT.
STR	Grant Grant	LOT A	1 IN.
-· ·	B L O C	K 4 4	SCALE
-	270 00	220.00	
100.00	5.00 00:02		100.00
, 5	.00	LOT 7-A	1203
M A N O N	Grant R=30.00	21,807 SQ. FT.	Grant 101
180.	TE B.		0. 00.
PARCEL 16- 693 SQ. FT.	35.00	190.00	İ
_ or 0.016 ACRE	90° 00° 3,893.00 S 9,176.00 E "HALAJ" △	225.00	
	KAWILI	STREET	
	·		
		This work under my	was prepared by me or direct supernsion,
		Kenagli N. Ucensed Procedificate	H. Hee ofessional Land Surveyor Number 5649
ENGINEERI	NG DIVISION ~ DEPT. OF	PUBLIC WORKS ~ COUNTY	OF HAWAII
SUBMITTED BY:	IGNEERING CMISION CHIEF	Lanikaula—Manono Traffic Si Project Number PARCEL 16 and	gnal Improvements x-xxxx OT 7-A
APPROVED BY:		Being portions of LOT (Grant 12258 to Waiakea House Lots, Waiakea, S. Hilo, Island o	- 1st Series f Hawaii - Hawaii i
Tax Map Kev: 2-2-5	50 : 2	is du da. 194 us - Gramu SA. 194 ius	Date: January 22, 1997

5.00—08:58 6 r a n t LOT 5-A 16,731 SQ. FT. 195.00 195.00 195.00 PARCEL 17
727 101 101 101 101 101 101 101 101 101 10
195.00

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ı	\cdot BLOCK	34'
-	Grant 8753 Grant 8754	Grant 8718
	LOT 14-A1 LOT 15-A PARCEL 1 34RCEL 2	LOT 16-A1 PARCEL 3
1		
	North # 40	
1	≥ IANIVAIIIA	PARCEL 19 STREET
	TANIA DEA	500 SQ. FT.
		or O.011 ACRE
1	270° 00° — 100.	00
ļ	90° 00° - 100.00	PARCEL 18
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	s work was prepared by me or ser my direct supervision.	
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Ken	Grant Li	OT 5-A
Lice	ensed Professional Land Surveyor tificate Number 5649	4 3
	ENGINEERING DIVISION ~ DEPT. OF	PUBLIC WORKS ~ COUNTY OF HAWAII
1		Lanikaula-Manono Traffic Signal Improvemen
SUAN	NITTED BY:	Project Number x-xxxx
	ENGINEERING CHISSION CHIEF	PARCEL 19 and LOT 3-A
	A. 60 Ou	Being portions of LOT 3, Block 43 (Grant 8677 to x y)
:PPR	OVED BY:	Waiakea House Lots, 1st Series
		Waiakea, S. Hilo, Island of Hawaii, Hawa
		Figh Hy 15H inc. Drawn By: 15H, inc. Date: January 22

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1			BIL O	C K	34		
	Gi	rant 8752 LOT 13	,	Grant	<i>8753</i>	Grant	8754
]		LUI IJ	<i></i>		14-A1 . EL 1	LOT	15-A
↓E		·	·		<u>4</u>	PAKO	4EL /
True North: 1 IN. = 40		LANIKA	- 1	PARCEL 20 500 SQ. FT. r 0.011 ACRE 270' 00' —		STREE1	•
SCALE					100.00	PARC	EL 19
STREET		8 ¹ 2 ³	200.002	90° 00'	100.00 5.00	3,498.00 S 8,991.00 E "HALA!" △	
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MILILANI	<u></u>			G (o n'	00 0	. · · · · · · · · · · · · · · · · · · ·	
; ;	under my direct		•		3 2 4	rant	12727
	Kendall N. H. H. Licensed Profess Certificate Numb	Honol Land Surveyor		BLOCK			5-A
EN	NGINEERING	DIVISION ~	DEPT. OF	PUBLIC WOR	KS ~ COU	VTY OF HA	WAII
			· · · · · · · · · · · · · · · · · · ·		Manono Traffic Project Numb	: Signal Impro	
SUBMITED BY:	ENCINEER	ng DMSON CHEF	DATE	Being - Waia	RCEL 20 and portions of L (Grant 8900 kea House Lo S. Hilo, Island	nd LOT 2-A LOT 2, Block to x y) ts. 1st Serie	43 es

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Donna Fay K. Kiyosaki Chief Engineer

> Jiro A. Sumada Deputy Chief Engineer

County of Hawaii DEPARTMENT OF PUBLIC WORKS

25 Aupuni Street, Room 202 • Hilo, Hawaii 96720-4252 (808) 961-8321 • Fax (808) 961-8630 July 14, 1997

ENGINEERS SURVEYORS HAWAII, INC

SADAO & TSUNEO TANAKA 1084 MANONO STREET HILO HI 96720

SUBJECT:

LANIKAULA - MANONO TRAFFIC SIGNAL IMPROVEMENTS

TMK: (3) 2-2-036: 092

Attached for your review is a Draft Environmental Assessment (EA) for the Lanikaula –Manono Traffic Signal Improvements, South Hilo, Hawaii, TMK: 2-2-27, 2-2-36 and 2-2-50. This EA was prepared pursuant to the EIS law (Hawaii Revised Statutes, Chapter 343) and the EIS rules (Administrative Rules, Title II, Chapter 200).

The proposed project involves the construction of a new traffic signal improvement system at this intersection. The installation of the Traffic System is in an existing urban -- residential district and this project may result in some acquisitions of private lands.

We are actively soliciting your input. Your comments must be received or postmarked by August 18, 1997.

Please send your original comments to:

Department of Public Works County of Hawaii 25 Aupuni Street, Room 202 Hilo, Hawaii 96720-4252 Attn: Mr. Galen Kuba

Copy of your comments should be sent to:

Engineers Surveyors Hawaii, Inc. 1020 Auahi Street, Bldg. 6, Room I Honolulu, Hawaii 96814 Attn: Mr. Eric Hee

Your comments will be published in the final environmental assessment.

DONNA FAY K. KIYOSAKI, P.E. Chief Engineer

Cuter Engineer

Attachment



Donna Fay K. Kiyosaki Chief Engineer

> Jiro A. Sumada Deputy Chief Engineer

County of Hau aii DEPARTMENT OF PUBLIC WORKS

25 Aupuni Street, Room 202 • Hilo, Hawaii 96720-4252 (808) 961-8321 • Fax (808) 961-8630

July 14, 1997

MR WILLIAM V BRILHANTE 1342 KILAUEA AVENUE HILO HI 96720

SUBJECT:

LANIKAULA – MANONO TRAFFIC SIGNAL IMPROVEMENTS

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> Jiro A. Sumada Deputy Chief Engineer

County of Hawaii

DEPARTMENT OF PUBLIC WORKS
25 Aupuni Street, Room 202 • Hilo, Hawaii 96720-4252
(808) 961-8321 • Fax (808) 961-8630

July 14, 1997

FRANCES K CHANG TRUST 1046 MANONO STREET HILO HI 96720

SUBJECT:

LANIKAULA - MANONO TRAFFIC SIGNAL IMPROVEMENTS

TMK: (3) 2-2-036: 092

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Chief Engineer

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Jiro A. Sumada Deputy Chief Engineer

County of Nawaii

DEPARTMENT OF PUBLIC WORKS

25 Aupuru Street, Room 202 • Hilo, Hawaii 96720-4252 (808) 961-8321 • Fax (808) 961-8630

July 14, 1997

SEISHO & NATSUKO OSHIRO 2500 KILAUEA AVENUE HILO HI 96720

SUBJECT:

LANIKAULA - MANONO TRAFFIC SIGNAL IMPROVEMENTS

TMK: (3) 2-2-036: 092

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DONNA FAY K. KIYOSAKI, P.E.

Chief Engineer

Attachment



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Jiro A. Sumada Deputy Chief Engineer

County of Hainaii DEPARTMENT OF PUBLIC WORKS 25 Aupuni Street, Room 202 • Hilo, Hawaii 96720-4252

(908) 961-8321 • Fax (808) 961-8630

July 14, 1997

AGASA FURNITURE & MUSIC LTD 30 PONAHAWAI STREET HILO HI 96720

SUBJECT:

LANIKAULA – MANONO TRAFFIC SIGNAL IMPROVEMENTS

TMK: (3) 2-2-036: 092

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Donna Fay K. Kiyosaki Chief Engineer

Jiro A. Sumada Deputy Chief Engineer

County of Nawaii

DEPARTMENT OF PUBLIC WORKS

25 Aupuni Street, Room 202 • Hilo, Hawaii 96720-4252 (808) 961-8321 • Fax (808) 961-8630

July 14, 1997

GAIL J RHOADS 1045 MANONO STREET HILO HI 96720

SUBJECT:

LANIKAULA – MANONO TRAFFIC SIGNAL IMPROVEMENTS

TMK: (3) 2-2-036: 092

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OONNA FAY K. KIYOSAKI, P.E.

Chief Engineer

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Donna Fay K. Kiyosaki Chief Engineer

Jiro A. Sumada Deputy Chief Engineer

County of Nawaii DEPARTMENT OF PUBLIC WORKS

July 14, 1997

25 Aupuni Street, Room 202 • Hilo, Hawaii 96720-4252 (808) 961-8321 • Fax (808) 961-8630

WALLACE & VALERIE KAWAKONE 373 E LANIKAULA STREET HILO HI 96720

SUBJECT:

LANIKAULA – MANONO TRAFFIC SIGNAL IMPROVEMENTS

TMK: (3) 2-2-036: 092

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Jiro A. Sumada Deputy Chief Engineer

County of Nawaii

DEPARTMENT OF PUBLIC WORKS

25 Aupuni Street, Room 202 • Hilo, Hawaii 96720-4252 (808) 961-8321 • Fax (808) 961-8630

July 14, 1997

SANTIAGO B & JUANITA A GOSE 17-296 MEAULU STREET KEAAU HI 96749

SUBJECT:

LANIKAULA - MANONO TRAFFIC SIGNAL IMPROVEMENTS

TMK: (3) 2-2-036: 092

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DONNA FAY K. KIYOSAKI, P.E.

Chief Engineer

Attachment



Donna Fay K. Kiyosaki Chief Engineer

> Jiro A. Sumada Deputy Chief Engineer

County of Namaii

DEPARTMENT OF PUBLIC WORKS

July 14, 1997

25 Aupuru Street, Room 202 • Hilo, Hawaii 96720-4252 (808) 961-8321 • Fax (808) 961-8630

UNITED PUBLIC WORKERS 646 362 E LANIKAULA STREET HILO HI 96720

SUBJECT:

LANIKAULA – MANONO TRAFFIC SIGNAL IMPROVEMENTS

TMK: (3) 2-2-036: 092

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GOONNA FAY K. KIYOSAKI, P.E. Chief Engineer

Attachment



Donna Fay K. Kiyosaki Chief Engineer

Jiro A. Sumada Deputy Chief Engineer

County of Nawaii DEPARTMENT OF PUBLIC WORKS

July 14, 1997

25 Aupuru Street, Room 202 • Hilo, Hawaii 96720-4252 (808) 961-6321 • Fax (808) 961-8630

MR FRANK WILLIAM FARIAS JR 364 E LANIKAULA STREET HILO HI 96720

SUBJECT:

LANIKAULA – MANONO TRAFFIC SIGNAL IMPROVEMENTS

TMK: (3) 2-2-036: 092

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DONNA FAY K. KIYOSAKI, P.E. Chief Engineer

Attachment

Stephen K. Yamashiro Мауот



Donna Fay K. Kiyosaki Chief Engineer

Jiro A. Sumada Deputy Chief Engineer

County of Hawaii

DEPARTMENT OF PUBLIC WORKS

July 14, 1997

25 Aupuru Street, Room 202 • Hilo, Hawaii 96720-4252 (808) 961-8321 • Fax (808) 961-8630

FRANCES C & KAI V TONGREN 53 WAINOHIA STREET HILO HI 96720

SUBJECT:

LANIKAULA – MANONO TRAFFIC SIGNAL IMPROVEMENTS

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Chief Engineer

Attachment



Donna Fay K. Kiyosaki Chief Engineer

Jiro A. Sumada Deputy Chief Engineer

County of Nawaii

DEPARTMENT OF PUBLIC WORKS

July 14, 1997

25 Aupuni Street, Room 202 · Hilo, Hawaii 96720-4252 (808) 961-8321 • Fax (808) 961-8630

H & G HAWAII INC 2150 AMAOLA DRIVE HILO HI 96720

SUBJECT:

LANIKAULA – MANONO TRAFFIC SIGNAL IMPROVEMENTS

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Chief Engineer

Attachment



Donna Fay K. Kiyosaki Chief Engineer

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County of Nawaii DEPARTMENT OF PUBLIC WORKS

25 Aupuni Street, Room 202 • Hilo, Hawaii 96720-4252 (808) 961-8321 • Fax (808) 961-8630

July 14, 1997

THOMAS R WOLFF ETAL 1081 MANONO STREET HILO HI 96720

SUBJECT:

LANIKAULA - MANONO TRAFFIC SIGNAL IMPROVEMENTS

TMK: (3) 2-2-036: 092

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County of Nawaii

DEPARTMENT OF PUBLIC WORKS

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July 14, 1997

RICHARD J & LOUISE M ARELLANO 372 E LANIKAULA STREET HILO HI 96720

SUBJECT:

LANIKAULA - MANONO TRAFFIC SIGNAL IMPROVEMENTS

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Chief Engineer

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> Jiro A. Sumada Deputy Chief Engineer

County of Nawaii

DEPARTMENT OF PUBLIC WORKS

25 Aupuni Street, Room 202 • Hilo, Hawan 96720-1252 (808) 961-8321 • Fax (808) 961-8630

July 14, 1997

MS ANGELINA C ANDAYA 1072 MANONO STREET HILO HI 96720

SUBJECT:

LANIKAULA – MANONO TRAFFIC SIGNAL IMPROVEMENTS

TMK: (3) 2-2-036: 092

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Chief Engineer

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Donna Fay K. Kiyosaki Chief Engineer

Jiro A. Sumada Deputy Chief Engineer

County of Hawaii

DEPARTMENT OF PUBLIC WORKS

July 14, 1997

25 Aupuni Street, Room 202 • Hilo, Hawaii 96720-4252 (808) 961-8321 • Fax (808) 961-8630

TENRIKYO KILAUEA KYOKAI 330 LANIKAULA STREET HILO HI 96720

SUBJECT:

LANIKAULA – MANONO TRAFFIC SIGNAL IMPROVEMENTS

TMK: (3) 2-2-036: 092

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Jiro A. Sumada Deputy Chief Engineer

County of Hawaii DEPARTMENT OF PUBLIC WORKS

July 14, 1997

25 Aupuru Street, Room 202 - Hilo, Hawaii 96720-4252 (808) 961-8321 • Fax (808) 961-8630

MS VIOLET T MARKIEWITCH PO BOX 1364 HILO HI 96721

SUBJECT:

LANIKAULA – MANONO TRAFFIC SIGNAL IMPROVEMENTS

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County of Hawaii

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July 14, 1997

25 Aupuru Street, Room 202 • Hilo, Hawaii 96720-4252 (808) 961-8321 • Fax (808) 961-8630

MS ANN JU TAMURA 3224 MONSARRAT AVENUE HONOLULU HI 96815

SUBJECT:

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Deputy Chief Engineer

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July 14, 1997

JOCK PURINTON ETAL 287 E LANIKAULA STREET HILO HI 96720

SUBJECT:

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ISAMU OSAKO 286 E LANIKAULA STREET HILO HI 96720

SUBJECT:

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