JOHN WAIHEE GOVERNOR



STATE OF HAWAII DEPARTMENT OF HUMAN SERVICES HAWAII HOUSING AUTHORITY P. O. 80X 17907 HONOLULU, HAWAII 96817 JUNE 8, 1993 RECT MITSUD SHITO

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193 JUN -9 A 8 DEPUTY EXECUTIVE DIRECTOR

IFC. OF EN IN REPLY REFER TO:

MEMORANDUM

то:	Brían J.J. Choy, Director Office of Environmental Quality Control
FROM:	Mitsuo Shito, Executive Director
	FINAL ENVIRONMENTAL ASSESSMENT AND NEGATIVE DECLARATION - HONOKAA PUBLIC HOUSING PROJECT

Attached for your appropriate action are the following:

1. One copy of the Document for Publication in the OEQC Bulletin.

2. Four copies of the Final Environmental Assessment and Negative Declaration.

3. One 3 1/2" computer disk with the project description.

If there are any questions, please have your staff call Mr. Wayne Nakamoto, Project Coordinator, at 832-5920.

Executive Director

Attachments

1993-05-23-HI-FEA- Honokaa Public Housing Project JUN 23 1993

FINAL ENVIRONMENTAL ASSESSMENT AND NEGATIVE DECLARATION HONOKAA PUBLIC HOUSING PROJECT

June 8, 1993

Α.	PROPOSING AGENCY:	Hawaii Housing Authority Department of Human Services
в.	APPROVING AGENCY:	Hawaii Housing Authority Department of Human Services
c.	AGENCIES CONSULTED:	State of Hawaii Department of Accounting and General Services Department of Health Department of Land and Natural Resources Department of Transportation University of Hawaii-Environmental Center <u>County of Hawaii</u> Fire Department Office of Housing and Community Development Parks and Recreation Department Planning Department Police Department Public Works Department Water Supply Department Private
		<u>brindre</u>

The Gas Company Hawaii Electric Light Company GTE Hawaiian Telephone

D. <u>PURPOSE</u>:

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The Hawaii Housing Authority (HHA) has prepared this final environmental assessment and negative declaration for the purpose of evaluating the suitability of this parcel of raw land prior to acquisition from a private landowner. According to Chapter 343-5(a)(1), Hawaii Revised Statutes, an environmental assessment is not required for the acquisition of raw land. However, the HHA proposes to acquire this land for the eventual construction of low income housing units, and wishes to determine the feasibility and potential impact of this proposed action.

E. <u>TECHNICAL</u>:

The Honokaa Public Housing Project proposes to construct low income public housing units on approximately fifteen and seven tenths (15.7) acres of overgrown sugar cane land mauka of the town of Honokaa, Island of Hawaii. The project is bounded by Honokaa Hospital to the north, a new subdivision being developed by the seller to the south, Plumeria Street to the east, and Lehua Street to the west (TMK 3nd Division 4-05-10: portion of 121 (Exhibit 1). Current plans call for the construction of approximately 75 elderly and/or family rental units, comprised of a mix of one, two, and three bedrooms units in a multi-family configuration. This proposal is dependent on available funding and housing demand.

This parcel is currently zoned RS-10. The proposing agency may proceed with rezoning and redesignation of this parcel for higher density family rental uses. The project is projected to utilize either a septic tank system with a leaching field on the existing property or a hookup with a sewer line currently under construction from the adjoining Honokaa Hospital. Water service may be provided by a new well being drilled by the Department of Land and Natural Resources. Access is available to the property from either Plumeria Street to the east or Lehua Street to the west. Drainage will follow existing surface runoff patterns. Solid wastes may be taken to the Honokaa Solid Waste Disposal Transfer Station across Plumeria Street.

F. <u>ECONOMIC CONSIDERATIONS</u>:

Total cost for this project has been estimated at \$9 million. Funding for this project has been requested from the U.S. Department of Housing and Urban Development and the Hawaii State Legislature. Funding for preliminary planning, land acquisition, and design has been provided by the Hawaii State Legislature (Act 296, SLH 1991).

Since the property will be owned and operated by the Hawaii Housing Authority, the impact on the tax base is expected to be minimal.

G. <u>SOCIAL</u>:

This project will provide new low income public housing for the people of Honokaa and the Hamakua Coast. These housing opportunities are needed, as there is a critical shortage of the existing rental housing units. No businesses or residential units will be displaced by this action. The housing that will be developed will comply with all handicapped/disability requirements, and all adaptable units can be made accessible for handicapped occupancy if the need arises.

H. <u>ENVIRONMENTAL</u>:

1. Flora/Fauna

No rare, threatened, or endangered species of flora or fauna are known to exist on this site. The natural flora of this area are hilograss, kaimi clover, guava, ohia, and cultivated sugarcane. A site visit reveals that the flora on site are remnants of cultivated sugarcane. On the southwest corner of the site is a grove of ironwood trees probably planted for erosion control and windbreak purposes. In a natural drainage gully, guava and Christmas berry plants are growing. The natural fauna of this area consist of pheasants and wild pigs. A site visit reveals the fauna on site consisting of birds and common insects.

2. Topography

The Honokaa Public Housing Project is located between 1,200 to 1,440 feet above sea level. (Exhibit 2) The property slopes steeply downward toward the sea in a northerly direction.

3. Soils

The Department of Agriculture's Soil and Conservation Service, in cooperation with University of Hawaii Agriculture Extension Station has classified this soil as Kukaiau silty clay loam. (Exhibit 3 and 4) The soil surface layer is a very dark grayish-brown silty clay loam about 10 inches thick. The substratum soil is dark grayish-brown silty clay loam about 40- inches thick underlain by basalt. Permeability is moderately rapid. Runoff is medium. Erosion hazard is moderate. The mean annual soil temperature is 67 to 69 degrees Fahrenheit.

4. Historical/Archeological Significance

Currently, the subject site is a vacant lot. Prior to its purchase from the previous owner in late 1989, the property was in cultivated sugarcane production as part of Hamakua Sugar Plantation for most of this century. No significant historical or archeological features have been determined within this parcel.

5. Climate

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The mean average rainfall in the Hamakua Coast is between 70 to 100 inches per year. This occurs mostly in the fall and winter. Due to its location on the windward side of the island, this area tends to be fairly moist and lush.

I. COMMENTS FROM AGENCIES CONSULTED

In February 1992, and again in October 1992 during the draft environmental assessment phase, comments were requested from the agencies list in section C above. Comments from the various agencies and responses to these comments by the proposing agency are attached. (Exhibit 5) In response to comments received from the State Department of Transportation, a traffic study has been performed to evaluate the impact to the nearby Hawaii Belt Road. (Exhibit 6)

J. DISCUSSION OF THE ASSESSMENT PROCESS:

The following assessments are made to determine whether or not the anticipated effects constitute a "significant effect":

- 1. The proposed action will not cause irrevocable loss or destruction of any natural or cultural resources.
- 2. The proposed action will not curtail the range of beneficial uses of the environment.
- 3. The proposed action will not conflict with the State's long-term environmental policies.
- 4. The proposed action will not substantially affect the economic and social welfare of the community or State.
- 5. The proposed action will not involve substantial secondary impacts, such as significant population changes or effects on public facilities.
- 6. The proposed action will not involve a substantial degradation of environmental quality.
- 7. The proposed action will not substantially affect any rare, threatened or endangered species of flora or fauna or habitat. No endangered species of flora or fauna are known to exist in the project site.
- 8. The proposed action will not detrimentally affect air or water quality or ambient noise levels.

- 9. The proposed action will not be located in any environmentally sensitive area, such as a flood plain, tsunami zone, erosion-prone area, geologically hazardous land, estuary, fresh water, or coastal waters.
- K. <u>SUMMARY OF MAJOR IMPACTS</u>:

From the above assessment, no major adverse environmental impact is anticipated. However, the project will result in the following minor adverse impacts:

- 1. Depletion of labor and material resources for construction.
- 2. Some dust, noise and silting during construction.
- L. <u>ALTERNATIVES CONSIDERED:</u>
 - 1. Alternative Designs

Variations in number and types of units, and in land density are being considered. However, this study will be constrained by funding considerations, the desires for housing opportunities by the residents of the Honokaa Community, and available zoning and infrastructure on the site.

2. No Action

The "no action" alternative was considered but was found to be unacceptable, due to the need for low income rental units in Honokaa and the availability of funding for this project. This would also not meet HHA's mandate to provide safe, decent, and sanitary housing on this available site.

M. <u>PROPOSED MITIGATIVE MEASURES</u>:

The temporary dust, noise and silting which would occur during construction will be controlled by application of appropriate pollution control measures.

N. <u>CONCLUSION AND RECOMMENDATION</u>:

This final environmental assessment indicates that the site is vacant uncultivated land. Based on this review, no immediate environmental concern is in evidence on this site. Based on these findings, no further environmental investigation is recommended at this site.

0. FINDINGS AND REASONS SUPPORTING DETERMINATION:

The project site is free of flood, tsunami, erosion, and landslide hazards. No rare or endangered species of flora are known to exist at the site. No rare of endangered species of fauna are known to inhabit the site. There are no recorded archaeological or historical sites within the existing site.

For the reasons cited above, the proposed action will not have any significant effect in the context of Chapter 343, Hawaii Revised Statutes and Section 11-200-12 of the State Administrative Rules.

P. <u>REFERENCES</u>

Excerpts from the preliminary environmental site assessment for the Honokaa Knolls project prepared by Masa Fujioka & Associates were used in this document, courtesy of Pheasant Ridge Corporation.



EXHIBIT 1

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EXHIBIT 4

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COMMENTS RECEIVED FROM AGENCIES

State of Hawaii	Department of Accounting and General Services Department of Health Department of Land and Natural Resources Department of Transportation University of Hawaii-Environmental Center
County of Hawaii	Fire Department Office of Housing and Community Development Planning Department Police Department Public Works Department Water Supply Department
Community	Telephone Conversation with Captain Rapoza, Honokaa Police Station, member Honokaa Business Council
	Telephone Conversation with Ivan Yamamoto, Honokaa Hospital, member Honokaa Development Council

Exhibit 5

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RUSSEL S. NAGATA COMMROLLER ROBERT P. TAKUSHI

LETTER NO.PM-1054.2

FEB JISTATE AFFYHAWAII DEPARTMENT OF ACCOUNTING AND GENERAL SERVICES DIVISION OF PUBLIC WORKS P. O. BOX 119, HONOLULU, HAWAII 96810

FEB | 4 |992

Mr. Mitsuo Shito Executive Director Hawaii Housing Authority P. O. Box 17907 Honolulu, Hawaii 96817

Dear Mr. Shito:

Subject: Proposed Honokaa Low Income Public Housing Project TMK (3) 4-05-10: portion of 1 & 121

Thank you for providing us an opportunity to provide ' comments on your proposed project. We are presently finalizing our design for the Honokaa Health Care Facility and will be out to bid shortly. This project is adjacent to your proposed project.

We have construction drawings, a traffic study, an environmental assessment, etc. that may contain information that would be helpful for your planning purposes. We would be happy to share this information with you.

If you have any questions, please have your staff call Roy Kimura of our Project Management Branch at 586-0463.

Very truly yours, _

TEUANE TOMINAGA State Public Works Engineer

RK/si

OHN WAIHEE

September 22, 1992

MEMORANDUM

TO: The Honorable Russel Nagata, Comptroller Department of Accounting and General Services

ATTN: Gordon Matsuoka, State Public Works Engineer Public Works Division

- FROM: Mitsuo Shito, Executive Director Hawaii Housing Authority
- SUBJECT: Proposed Honokaa Low Income Public Housing Project, TMK (3) 4-05-10: portion of 121

Thank you for your letter of February 14, 1992, responding to our request to provide comments for the above project.

Your offer to share information regarding the Honokaa Health Care Facility, such as drawings, studies, and your environmental assessment has been invaluable in helping us plan our project. We wish to recognize Mr. Roy Kimura from your office in making this information available and answering our questions on basic infrastructure in the Honokaa area.

The attached draft environmental assessment for this project will be published in the OEQC Bulletin on September 23, 1992. Should you have any additional comments and concerns regarding this project, please respond by October 23, 1992.

Your attention and expeditious action in this matter is appreciated. Should you have any questions, please contact Mr. Wayne Nakamoto, Project Coordinator, at 832-5920.

> MITSUO SHITO Executive Director

WN:lt

Enclosure

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STATE OF HAWAII DEPARTMENT OF HEALTH P. O. BOX 3378 HONOLULU. HAWAII 96801

March 13, 1992

In reply, please refer to: 92-056/epo

JOHN C. LEWIN, M.D.

DIRECTOR OF HEALTH

TO: The Honorable Mitsuo Shito, Executive Director Hawaii Housing Authority

FROM:

JOHN WAIHEE

GOVERNOR OF HAWAII

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AUTHORIT

John C. Lewin, M.D. Frunchadman for Director of Health

SUBJECT: Proposed Honokaa Low Income Public Housing Project TMK: (3)4-05-10: portion of 1 and 121

We have reviewed the subject project and have the following comments to offer:

<u>Wastewater</u>

The subject project is located in the noncritical wastewater disposal area, as determined by the Hawaii County Wastewater Advisory Committee. Also, a public sewer system is not available.

The proposed public housing project shows that the total number of low income rental units is approximately fifty-five (55) units. Under the current Department of Health (DOH) Administrative Rules, Chapter 11-62, "Wastewater Systems," in order to utilize individual wastewater systems (IWSs), the total development of an area cannot exceed fifty (50) single family residential lots or exceed fifty (50) dwelling units. Therefore, a treatment works must be constructed to serve this development.

The proposed new Honokaa Medical Care Facility is in the process of developing a new sewerage system for the disposal of wastewater. The DOH recommends the developers of the subject project consult with the developers of the Honokaa Medical Care Facility to work out a plan to share the Medical Care Facility's proposed sewerage system. Otherwise, we would have to recommend denial of this project at its present size.

If you should have any questions on this matter, please contact Ms. Lori Kajiwara of the Wastewater Branch at 586-4290, or Mr. Harold Matsuura of our Hilo District Health Office at 933-4371.

c: Wastewater Branch

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Hilo District Health Office (Harold Matsuura)

September 22, 1992

MEMORANDUM

TO: The Honorable John C. Lewin, Director Department of Health

ATTN: Dennis Tulang, Chief Wastewater Treatment and Construction Grants Branch

FROM: Mitsuo Shito, Executive Director Hawaii Housing Authority

SUBJECT: Proposed Honokaa Low Income Public Housing Project, TMK (3) 4-05-10: portion of 121

Thank you for your letter of March 13, 1992, responding to our request to provide comments for the above project.

Your concern regarding wastewater treatment for 50 or more dwelling units is noted. We have discussed a possible sharing of sewer system with the Honokaa Health Care Facility or possibly limiting the number of units to below 50 in order to address your concerns.

The attached draft environmental assessment for this project will be published in the OEQC Bulletin on September 23, 1992. Should you have any additional comments and concerns regarding this project, please respond by October 23, 1992.

Your attention and expeditious action in this matter is appreciated. Should you have any questions, please contact Mr. Wayne Nakamoto, Project Coordinator, at 832-5920.

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MITSUO SHITO Executive Director

WN:lt

Enclosure

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STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES STATE HISTORIC PRESERVATION DIVISION 33 SOUTH KING STREET. 6TH FLOOR HONOLULU, HAWAII 14613

February 28, 1992

CLAD OF LAND AND HETURAL RESOURCES

DEPUTIES JACK P. KEPPELER, II DONA L. HANAKE

AQUACULTURE DEVELOPMENT PROGRAM AQUATIC REDOURCES CONSERVATION AND ENVIRONMENTAL AFFAIRS CONSERVATION AND RESOURCES ENFORCEMENT CONVEYANCES FORS STRY AND WILDUFE HISTORIC PRESERVATION DIVISION LAND MANAGEMENT STATE PARKS WATER AND LAND DEVELOPMENT

LOG NO.: 4630 DOC NO.: 0107x

Mr. Mitsuo Shito, Executive Director Department of Human Services, Hawaii Housing Authority P.O. Box 17907 Honolulu, Hawaii 96817

Dear Mr. Shito:

SUBJECT: Chapter 6E Compliance--Proposed Honokaa Low Income Public Housing Project, Honokaa (Hawaii Housing Authority) Haina and Namoku, Hamakua, Island of Hawaii TMK: 3-4-5-10: portion 001 & 121

According to our records and available aerial maps, the subject parcels were under intensive sugar cane cultivation as late as 1975. Such intensive land use would have destroyed all surface significant historic sites in the area. Hence, a determination of "no effect" by the proposed housing project on significant historic sites in the parcels can be made.

If you should have any further questions, please contact Kanalei Shun at 587-0007.

Sincerely,

Reas Conclup

DON HIBBARD, Administrator State Historic Preservation Division

KS:aal

c: County of Hawaii, Planning Department

September 22, 1992

MEMORANDUM

- TO: The Honorable William Paty, Chairperson Department of Land And Natural Resources
- ATTN: Don Hibbard, Administrator State Historic Preservation Division
- FROM: Mitsuo Shito, Executive Director Hawaii Housing Authority
- SUBJECT: Proposed Honokaa Low Income Public Housing Project, TMK (3) 4-05-10: portion of 121

Thank you for your letter of February 28, 1992, responding to our request to provide comments for the above project.

The attached draft environmental assessment for this project will be published in the OEQC Bulletin on September 23, 1992. Should you have any additional comments and concerns regarding this project, please respond by October 23, 1992.

Your attention and expeditious action in this matter is appreciated. Should you have any questions, please contact Mr. Wayne Nakamoto, Project Coordinator, at 832-5920.

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MITSUO SHITO Executive Director

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Enclosure

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DIRECTOR

DEPUTY DIRECTORS JOYCE T. OMINE AL PANG JEANNE K. SCHULTZ CALVIN M. TSUDA

IN REPLY REFER TO:

HWY-PS 2.0841

TO:

JOHN WAIHEE

Mitsuo Shito, Executive Director Department of Human Services Hawaii Housing Authority

80 FROM:

Rex D. Johnson, Director Department of Transportation, ENVIRONMENTAL ASSESSMENT PREPARATION,

SUBJECT:

HONOKAA LOW-INCOME PUBLIC HOUSING PROJECT, HONOKAA, HAMAKUA, HAWAII, TMK: 4-5-10: POR. 1 & 121

Thank you for your memorandum of February 4, 1992, requesting our comment on the subject project.

please include a traffic assessment for this project in the Environmental Assessment. We reserve further comment until we can review the assessment.



STATE OF HAWAII DEPARTMENT OF TRANSPORTATION 669 PUNCHBOWL STREET HONOLULU, HAWAII 96813-5097

February 25, 1992

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September 22, 1992

MEMORANDUM

TO: The Honorable Rex D. Johnson, Director Department of Transportation

ATTN: Tetsuo Harano, Administrator Highways Division

FROM: Mitsuo Shito, Executive Director Hawaii Housing Authority

SUBJECT: Proposed Honokaa Low Income Public Housing Project, TMK (3) 4-05-10: portion of 121

Thank you for your letter of February 28, 1992, responding to our request to provide comments for the above project.

In response to your concerns, we are planning to include a traffic assessment in our final environmental assessment. \checkmark

The attached draft environmental assessment for this project will be published in the OEQC Bulletin on September 23, 1992. Should you have any additional comments and concerns regarding this project, please respond by October 23, 1992.

Your attention and expeditious action in this matter is appreciated. Should you have any questions, please contact Mr. Wayne Nakamoto, Project Coordinator, at 832-5920.

> MITSUO SHITO Executive Director

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Enclosure

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OEPUTY DIRECTORS JOYCE T. OMINE AL PANG JEANNE K. SCHULTZ CALVIN M. TSUDA

IN REPLY REFER TO:

HWY-PS 2.4202

OCT LI IU UD AN STATE OF HAWAII 869 PUNCHBOWL STREET HONOLULU, HAWAII 96813-5097 October 20, 1992

TO:

JOHN WAIHEE

Mitsuo Shito, Executive Director Hawaii Housing Authority

FROM: - BREAREN D. Johnson, Director ______ Department of Transportation / , Janco

DRAFT ENVIRONMENTAL ASSESSMENT, PROPOSED HONOKAA LOW INCOME PUBLIC HOUSING PROJECT, HONOKAA, HAMAKUA, HAWAII, TMK: 4-5-10: POR. 121 SUBJECT:

Thank you for your letter of September 22, 1992, responding to our letter of February 28, 1992, and requesting our review of the subject draft environmental assessment.

We will reserve comment until we have had the opportunity to review the traffic assessment.

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DHS 4309 (5/92)

Wayne

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May 20, 1993

MEMORANDUM

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TO: The Honorable Rex D. Johnson, Director Department of Transportation

FROM: Mitsuo Shito, Executive Director Hawaii Housing Authority

SUBJECT: Draft Environmental Assessment, Proposed Honokaa Low Income Public Housing Project, Honokaa, Hamakua, Hawaii; TMK: 4-5-10: Por. 121

Thank you for your letter of September 22, 1992, responding to our draft environmental assessment for the above project. Please excuse the delay in responding to your letter, as we required additional time in retaining a traffic consultant for this project.

As requested, attached are two (2) advanced copies of our prefinal traffic impact analysis for the proposed project for your review and comment.

Should you have any questions, please contact Wayne Nakamoto, Project Coordinator, at 832-5920.

Original Signed

MITSUO SHITO Executive Director

WN:lt

cc: C. Ching, Pheasant Ridge Corporation/w attachment

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HANALI -O. I NO AUI-OR

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Oct 20 H 22 M '52 University of Hawaii at Manoa

Environmental Center A Unit of Water Resources Research Center Crawford 317 • 2550 Campus Road • Honolulu, Hawaii 96822

Telephone: (808) 956-7361 Facsimile 956-3980

> October 21, 1992 EA:00004

Mr. Wayne Nakamoto Hawaii Housing Authority 1002 North School Street Honolulu, Hawaii 96817

Dear Mr. Nakamoto:

Draft Environmental Assessment Honokaa Public Housing Project Honokaa, Hawaii

The referenced project proposes to construct low income public housing units on approximately 15.7 acres adjacent to the Honokaa Hospital. Approximately 75 elderly and/or family rental apartments, comprised of a mix of one, two, and three bedroom units in a multi-family configuration will be built dependent on available funding and housing demand. Our review of the Draft Environmental Assessment (EA) was prepared with the assistance of Peter Flachsbart, Urban and Regional Planning; Terry Hunt, Anthropology; Jon Matsucka, School of Social Work; and Elizabeth Gordon, Environmental Center.

General Comments

Pursuant to the Environmental Impact Statement (EIS) Rules (Section 11-200-9; 11-200-10; 11-200-12, H.A.R.), Environmental Assessments are intended to provide sufficient information to evaluate the significance of potential impacts. Although we concur that a negative declaration is appropriate, our reviewers have noted a number of areas in which additional information would contribute to a better basis for decision making, and we suggest that the present EA be expanded to accommodate these concerns.

<u>Social</u> (G)

Although intended as an affordable housing project, it is unclear whether there are any conditions of eligibility for purchase of these homes. Will these housing units be limited to the people of Hawaii or the

An Equal Opportunity/Affirmative Action Institution

Mr. Wayne Nakamoto October 21, 1992 Page 2

people of Honokaa and the Hamakua Coast? If not, what are the potential socio-economic impacts? For example in Puna and Kau, affordable housing was bought by people outside of Hawaii, creating conflicts with long-term residents in areas of economic development and community relations.

Historical/Archaeological Significance (H-4)

The project area is described as former sugar cane land and if <u>all</u> of the project area was cultivated, the potential for archaeological sites is very low. However, there remains the possibility that deeply buried archaeological deposits and human burials may be present. The EA should stipulate that appropriate mitigative measures will be taken and coordinated with the Department of Land and Natural Resources if the project is found to impact upon archaeological resources.

Thank you for the opportunity to review this EA. We hope that our comments are helpful.

Sincerely

John T. Harrison, Ph.D. Environmental Coordinator

'cc: OEQC

Roger Fujioka Peter Flachsbart Terry Hunt Jon Matsucka Elizabeth Gordon

92:ENG/1506

November 2, 1992

Dr. John T. Harrison Environmental Coordinator Environmental Center University of Hawaii at Manoa 2550 Campus Road Honolulu, Hawaii 96822

Dear Dr. Harrison:

Subject: Draft Environmental Assessment Honokaa Public Housing Project, Honokaa, Hawaii

Thank you for your letter of October 21, 1992, expressing your concerns for the above project.

Regarding your socio-economic concern, please be informed that the Hawaii Housing Authority constructs rental units only. Affordable housing built for the Hawaii Housing Authority is owned and operated by the State of Hawaii. Selection of tenants are made via an application process. As a governmental entity, we are prohibited from discriminating by origin or residency. However, it is our practice to encourage rental housing opportunities to people residing within the area of the project.

As stated in your letter, the potential for significant historical or archaeological sites is very low. However, it is our practice to instruct our consultants and contractors to work closely with the Department of Land and Natural Resources, Historic Preservation Division in assuring that mitigative measures are taken should historic and/or archaeological sites are uncovered. Your concern is noted, and will be included in the final environmental assessment. Л,

Dr. John T. Harrison November 2, 1992 Page 2

We appreciate your careful review of the draft environmental assessment and the valuable comments made to improve the final environmental assessment. Should you have any questions, please call Mr. Wayne Nakamoto, Project Coordinator, at 832-5920.

> Sincerely, Mitsuo Shito Original Signed

MITSUO SHITO Executive Director

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County of Hawaii • 466 Kinoose Street • Hilo, Hawaii 96720-2983 • (808) 961-8297

February 14, 1992

Mr. Mitsuo Shito Executive Director Hawaii Housing Authority Department of Human Services P. O. Box 17907 Honolulu, Hawaii 96817

Fire Department

Dear Mr. Shito:

Subject: Proposed Honokaa Low Income Public Housing Project, TMK (3) 4-05-10: Portion of 1 & 121

We have no comments or concerns regarding the above-referenced project as it will fall under the Subdivision Code.

Sincerely,

DANIEL Fire Chief

DA/mo

92:ENG\1300

Harrier-

September 22, 1992

Mr. Daniel Ayala Fire Chief Fire Department County of Hawaii 466 Kinoole Street Hilo, Hawaii 96720

Dear Chief Ayala:

SUBJECT: Proposed Honokaa Low Income Public Housing Project, TMK (3) 4-05-10: portion of 121

Thank you for your letter of February 14, 1992, responding to our request to provide comments for the above project.

The attached draft environmental assessment for this project will be published in the OEQC Bulletin on September 23, 1992. Should you have any additional comments and concerns regarding this project, please respond by October 23, 1992.

Your attention and expeditious action in this matter is appreciated. Should you have any questions, please contact Mr. Wayne Nakamoto, Project Coordinator, at 832-5920.

Sincerely,

Minuto Shito

MITSUO SHITO Executive Director

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Enclosure

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Honolulu, Hawaii 96817		HOMELESS COORDINATOR				
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Dear Mr. Shito:	FILE	92'ENG	40	69		
Subject: Proposed Honokaa Low Income Public Housing TMK (3) 4-05-10: Portion of 121	Pr	oject,				

In response to your request of September 22, 1992, we have no additional comments regarding the proposed Honokaa Low Income Public Housing Project at this time.

Sincerely,

DANIEL AVALA Fire Chief

DA/mo

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Office of Housing management and Community Development

Brian T. Nishimura Housing Administrator

County of Hawaii • 50 Walluku Drive • Hilo, Hawaii 96720 • (808) 961-8379 • Fax (808) 935-4725 FEB LU | 25 Fli '5L

February 14, 1992

Mr. Mitsuo Shito Executive Director Department of Human Services Hawaii Housing Authority P.O. Box 17907 Honolulu, Hawaii 96817

SUBJECT: Proposed Honokaa Low-Income Public Housing Project <u>TMK: (3) 4-05-10: Portion of 1 & 121</u>

Thank you for your letter dated February 4, 1992, regarding your proposed public housing project in Honokaa. The Hawaii County Office of Housing and Community Development (OHCD) has no objections to your proposed project. The proposed project seems to fit in with the others proposed for the Honokaa area.

However, other proposed projects in the area have noted some concerns in obtaining water commitments. Therefore, we are recommending that you contact the County Department of Water Supply for their review and comments.

Please do not hesitate to call me if we can assist you with this project.

P. 1

Brian T. Nishimura Administrator



Alb yet

92:ENG\1296

September 22, 1992

Mr. Brian T. Nishimura Administrator Office of Housing and Community Development County of Hawaii 50 Wailuku Drive Hilo, Hawaii 96720

Dear Mr. Nishimura:

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SUBJECT: Proposed Honokaa Low Income Public Housing Project, TMK (3) 4-05-10: portion of 121

Thank you for your letter of February 14, 1992, responding to our request to provide comments for the above project.

In response to your concerns regarding a water commitment for the above site, the Hawaii Housing Authority has contacted both the Department of Water Supply and the Department of Land and Natural Resources, Division of Water and Land Development regarding this matter.

The attached draft environmental assessment for this project will be published in the OEQC Bulletin on September 23, 1992. Should you have any additional comments and concerns regarding this project, please respond by October 23, 1992.

Your attention and expeditious action in this matter is appreciated. Should you have any questions, please contact Mr. Wayne Nakamoto, Project Coordinator, at 832-5920.

Sincerely,

MITSUO SHITO Executive Director

WN:csg

Enclosure

ATTINK CHED2



AUTHOR Planning Department

nAWA

25 Aupuni Selet, Room 109 • Hilo, Hawaii 96720 • (808) 961-8288

Lorraine R. Inouye Mavor Norman K. Hayashi Director Tad Nagasako Deputy Director

len i

October 22, 1992

LEGAL PLANNING PUBLIC INFORMATION RESIDENT SERVICES HOMELESS ALDHA HOMELESS COORDINATOR

FILE 92' ENG

the second se

Mr. Mitsuo Shito Executive Director Hawaii Housing Authority P. O. Box 17907 Honolulu, HI 96817 Dear Mr. Shito: Draft Environmental Assessment (EA) Proposed Honokaa Fublic Housing Project TMK: 4-5-10:Portion of 121 Thank you for the opportunity to review the above-referenced draft EA for the proposed Honokaa Low Income Public Housing project. We have no comments to offer on the project. OHS 4309 (5/92) Suspense Rt Into Coord Act 1 EXECUTIVE DIRECTOR 2 DEP. EXECUTIVE DIRECTOR -NORMAN K. HAYASHI Planning Director ADMINISTRATIVE SVC. OFC. DATA PROCESSING AK:ska PERSONNEL 9637J (1) PURCHASING 3 ENGINEERING & INSPECTION HEARINGS OFFICER HOUSING COMPLIANCE HOUSING MARAGEMENT UHAO NEIGHBOR ISLAND CENTRAL MAINTENANCE

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Dear Mr. Shito:

SUBJECT: PROPOSED HONOKAA LOW INCOME PUBLIC HOUSING PROJECT, TMK (3) 4-05-10: PORTION OF 1 & 121

The above proposed project has been reviewed and we foresee no adverse effect should it be granted.

Sincerely,

VICTOR ÉÈRRA OLICE

JD:sk

cc: Hamakua Police



92:ENG\1302

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Jumet

September 22, 1992

Mr. Victor V. Vierra Chief of Police Police Department County of Hawaii 349 Kapiolani Street 96720-3998 Hilo, Hawaii

Dear Chief Vierra:

SUBJECT: Proposed Honokaa Low Income Public Housing Project, TMK (3) 4-05-10: portion of 121

Thank you for your letter of February 20, 1992, responding to our request to provide comments for the above project.

The attached draft environmental assessment for this project will be published in the OEQC Bulletin on September 23, 1992. Should you have any additional comments and concerns regarding this project, please respond by October 23, 1992.

Your attention and expeditious action in this matter is appreciated. Should you have any questions, please contact Mr. Wayne Nakamoto, Project Coordinator, at 832-5920.

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Sincerely,

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MITSUO SHITO Executive Director

WN:csg

Enclosure

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92:ENG\1302

September 22, 1992

Mr. Victor V. Vierra Chief of Police Police Department County of Hawaii 349 Kapiolani Street Hilo, Hawaii 96720-3998

Dear Chief Vierra:

SUBJECT: Proposed Honokaa Low Income Public Housing Project, TMK (3) 4-05-10: portion of 121

Thank you for your letter of February 20, 1992, responding to our request to provide comments for the above project.

The attached draft environmental assessment for this project will be published in the OEQC Bulletin on September 23, 1992. Should you have any additional comments and concerns regarding this project, please respond by October 23, 1992.

Your attention and expeditious action in this matter is appreciated. Should you have any questions, please contact Mr. Wayne Nakamoto, Project Coordinator, at 832-5920.

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Sincerely,

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MITSUO SHITO Executive Director

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Enclosure



	N.S.	92 8-00 75 Fuspinse. 4/14/92
	HA# TEHORIT	Bruce C. McClure Chief Engineer
·	Department of Public Works	Laurence E. Capellas Deputy Chief Engineer
	County of Hawaii · 25 Aupuni Street, Room 202 · Hild Hawaii 96720 · (808)) 961-8321 · Fax (808) 969-7138

March 27, 1992

~ -----

MR MITSUO SHITO EXECUTIVE DIRECTOR HAWAII HOUSING AUTHORITY P O BOX 17907 HONOLULU HI 96817

SUBJECT: PROPOSED HONOKAA LOW INCOME PUBLIC HOUSING PROJECT TMK: 4-5-10: por. 1 & 121 Hamakua, HI

This is in response to your (92:ENG/154) letter to us. We have the following comments:

TRAFFIC

- 1. The EIS should address:
 - a. The access to the site.
 - The traffic impact of the project upon the area.
 - b. The traffic impact of the project upon the area.c. Any mitigating measures that the developer will construct or fund.
- 2. Other concerns are:
 - That safe sight-distance be maintained for the ingress and egress a. to the site.
 - That adequate street lighting be installed at the entrance/exit Ь. of the project.

SOLID WASTE

In light of recent state legislation which requires the development of a county integrated waste management plan, we believe that the solid waste management plan should be developed for this project. The plan should address as a minimum the following:

- a. Analysis of anticipated solid waste volume and composition.
- Proposed disposal and/or transportation methods to be employed for various components of the waste stream. Ь.
- c. Impacts to existing/proposed county solid waste facilities, including financial impacts, and appropriate mitigating measures.
- d. A waste reduction component which analyzes techniques to be employed to help the County achieve a reduction goal of 25% by 1995 and 50% by
Ltr to Mitsuo Shito Page 2 March 27, 1992

ROADWAY

Will roadway be dedicated to County? How will these roadways contribute to the circulation system in this area? Provide for connections to mauka property.

DRAINAGE

Prepare a drainage study. The intersection of Mamane Street and Plumeria Road floods because of runoff from this area.

for ROBERT K. YANABU, Division Chief Engineering Division

DHM:sah

çc: SWD TRF BLD ENG

92:ENG/473

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April 15, 1992

Mr. Bruce C. McClure Chief Engineer Department of Public Works County of Hawaii 25 Aupuni Street, Room 202 Hilo, Hawaii 96720

Attention: Robert K. Yanabu, Engineering Division

Dear Mr. McClure:

SUBJECT: Proposed Honokaa Low Income Public Housing Project, TMK 4-5-10: por. 1 & 121

Thank you for your letter of March 27, 1992, providing comments to our proposed environmental assessment for the above project.

In response to your concerns, we have prepared the following responses:

- Traffic: The Hawaii Housing Authority shall retain a traffic engineer to conduct a traffic study prior to filing the environmental assessment. We will instruct the traffic engineer to address concerns regarding access, traffic impact, mitigating measures, ingress and egress distances, and street lighting.
- Solid Waste: During the planning and engineering part of the project, we will request that our consultants develop a solid waste management plan for the project, along with a waste reduction plan.

Roadways: During the planning and engineering part of the project, our consultants will develop the roadway and circulation system for the project. Normally roadways within our housing projects are not dedicated to the County in order to provide security, and control traffic within our project. For the same reason, we do not anticipate connecting to any roads within the mauka properties. Mr. Bruce C. McClure April 15, 1992 Page 2

Drainage: A drainage study will be prepared during the planning and engineering part of the project. We shall make our consultants aware of the flooding at Mamane Street and Plumeria Road.

The Hawaii Housing Authority appreciates your comments and concerns regarding this project. Should you have any questions, please contact Mr. Wayne Nakamoto, Project Coordinator, at 848-3281.

Sincerely,

Original Signed

MITSUO SHITO Executive Director

WN:lt

Subject

92:ENG/1302

September 22, 1992

Mr. Bruce C. McClure Chief Engineer Department of Public Works County of Hawaii 25 Aupuni Street, Room 202 Hilo, Hawaii 96720

Attention: Robert K. Yanabu, Engineering Division

Dear Mr. McClure:

SUBJECT: Proposed Honokaa Low Income Public Housing Project, TMK (3) 4-05-10: portion of 121

Thank you for your letter of March 27, 1992, responding to our request to provide comments for the above project. Our letter of April 15, 1992 provided responses to each of your concerns.

The attached draft environmental assessment for this project will be published in the OEQC Bulletin on September 23, 1992. Should you have any additional comments and concerns regarding this project, please respond by October 23, 1992.

Your attention and expeditious action in this matter is appreciated. Should you have any questions, please contact Mr. Wayne Nakamoto, Project Coordinator, at 832-5920.

> Sincerely, Mibuo Shite Contract City of

MITSUO SHITO Executive Director

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Enclosure

October 9, 1992

MEMORANDUM

To: Chief Engineer

From: Wayne Nakamoto wh

Re:

: Honokaa Public Housing Project - Conversation with Captain Rapoza of the Honokaa Police Station

Today, at 8:00 a.m., I had a conversation with Captain Rapoza of the Honokaa Police Station. He was calling about the draft environmental assessment for the above project.

Captain Rapoza said that he was representing the Honokaa Business Council, a group of community leaders. He was concerned that HHA may not be serious or interested in the project; since it was his organization and others in the Honokaa community who convinced Pheasant Ridge Corporation to set aside 15.7 acres for affordable housing opportunities.

He also heard from the project realtor that other agencies are not interested, and the parcel will be subdivided and sold at market prices. I assured him that HHA was interested in acquiring the property, and development of the parcel would take place depending on funding availability and market demand.

Captain Rapoza mentioned that he will sending a letter to HHA in support of housing on the 15.7 acre parcel. He also mentioned that Mr. Ivan Yamamoto, administrator of Honokaa Hospital, will be contacting the HHA Big Island Manager to convey the same message.

For your information and file.

cc: VExecutive Director

October 26, 1992

MEMORANDUM

ر To: Chief Engineer	H_
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From: Wayne Nakamoto w-

Re: Honokaa Public Housing Project - Conversation with Ivan Yamamoto of Honokaa Hospital

Today I had a conversation with Mr. Ivan Yamamoto of Honokaa Hospital. He called the seller of the above project, and was referred to me.

Speaking for DOH, Mr. Yamamoto wanted to know how serious HHA was in acquiring the 15.7 acres. He mentioned that he was thinking of requesting that the State Health Planning and Development Agency of the Department of Health acquire this property if HHA was not interested. I assured him that HHA was serious about acquisition of the property, and had received Commission approval to negotiate the acquisition of the parcel subject to certain conditions.

Mr. Yamamoto was pleased with this information, and stated that he was also part of the Honokaa Development Council, which reviews all new development proposals in the Honokaa area. I provided several details regarding the property, and informed him that development of the parcel would take place depending on funding availability and market demand.

Mr. Yamamoto mentioned that he will sending a letter to HHA in support of housing on the 15.7 acre parcel. I also mentioned to him that I was still waiting for Captain Rapoza of the Honokaa Police Station to convey the same message.

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For your information and file.

cc: Executive Director

PRE-FINAL TRAFFIC IMPACT ANALYSIS REPORT FOR THE PROPOSED

HONOKAA PUBLIC HOUSING PROJECT

PREPARED FOR OKAHARA & ASSOCIATES, INC. MAY 7, 1993



PREPARED BY

THE TRAFFIC MANAGEMENT CONSULTANT

RANDALL S. OKANEKU, P. E., PRINCIPAL + 1188 BISHOP STREET, SUITE 1907 + HONOLULU, HAWAII 96813

EXHIBIT 6

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PRE-FINAL TRAFFIC IMPACT ANALYSIS REPORT FOR THE PROPOSED

HONOKAA PUBLIC HOUSING PROJECT

I. Introduction

A. Purpose and Scope of Study

The purpose of this study is to identify and analyze the traffic impacts resulting from the proposed Honokaa Public Housing Project in Honokaa, Hawaii. This study also presents traffic improvements that would mitigate the traffic impacts identified in this study. This report presents the findings and recommendations of the study.

The scope of the study includes the following:

- 1. Description of the proposed project.
- 2. Description of the study area and surrounding land uses.
- 3. Evaluation of existing roadway and traffic conditions.
- 4. Estimation of future traffic without the project.
- 5. Development of trip generation characteristics for the proposed project.
- 6. Identification and analysis of traffic impacts resulting from the proposed project.
- 7. Recommendation of improvements that would mitigate the traffic impacts identified in this study.

B. Project Description

The project site is identified as TMK 4-5-10: Portion of 121. Access to the site is proposed on the west side of Lehua Street, south of the Honokaa Hospital. Figure 1 shows the location map.

The proposed project would consist of up to 75 multi-family dwelling units. Full build out and occupancy is expected in 1996. Figure 2 shows the parcel map.

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Figure 1 - Location Map

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II. Existing Conditions

A. Study Area

The limits of the study area are generally defined between the project access driveway and Mamalahoa Highway. The intersections under study include:

- ^o Mamalahoa Highway at Plumeria Street
- ^o Mamalahoa Highway at Lehua Street
- ° Lehua Street at Plumeria Street
- ° Lehua Street at Pakalana Street

B. Existing Use and Anticipated Future Development

The project site is currently undeveloped. A proposed 102 dwelling unit single family residential subdivision is located immediately to the south of the project site. According to its developer, Honokaa Knolls is expected to be built out and occupied by 1995.

North of the proposed project site is the Honokaa Hospital and Clinic. The Honokaa Health Care Facility, located next to the Hospital, is under construction at this writing. The Clinic activities will be transferred to the new Health Care Facility and the Clinic will be converted into office space. A traffic impact study was prepared for the Honokaa Health Care Facility by Wilbur Smith Associates, dated December 3, 1991.

III. Existing Conditions

A. Site Accessibility

1. Area Roadway System

Mamalahoa Highway is a two lane, two way arterial highway, providing regional access to the Honokaa area. Mamalahoa Highway is posted at 55 miles per hour (mph) in the vicinity of the project. Mamalahoa Highway is unsignalized at Plumeria Street and signalized at Lehua Street. East bound Mamalahoa Highway provides an exclusive left turn lane at Plumeria Street. Exclusive left turn lanes are not provided on Mamalahoa Highway at Lehua Street. Plumeria Street is a two way, two lane collector roadway that extends from Mamalahoa Highway to Lehua Street. Plumeria Street continues northward as Lehua Street to Mamane Street in the commercial center of Honokaa.

Lehua Street forms a four-legged intersection with Mauna Loa Street and Mamalahoa Highway. Lehua Street continues northward to Mamane Street as Pakalana Street. Lehua Street, between Pakalana Street and Plumeria Street, is a narrow, winding roadway. This narrow, winding section of Lehua Street is planned by the County for realignment to intersect Pakalana Street. No schedule for the road improvement is available at this writing.

Pakalana Street provides access to Honokaa Elementary and High Schools. Between 7:30 AM and 8:15 AM and between 1:00 PM and 2:30 PM, Pakalana Street becomes a one way street in the mauka bound direction, between Honokaa Elementary and High Schools and Lehua Street.

B. Existing Traffic Volumes and Operating Conditions

1. General

a. Field Investigation

A manual traffic count survey was conducted in the project vicinity in April, 1993, during the peak periods of traffic between the hours of 6:00 AM to 8:30 AM, and 3:30 PM to 5:30 PM. Additional traffic count data were obtained from the State Department of Transportation and other studies conducted in the vicinity.

b. Capacity Analysis Methodology

The highway capacity analysis performed for this study is based upon procedures presented in the "Highway Capacity Manual" (HCM), Special Report 209, Transportation Research Board, 1985 and the "Highway Capacity Software", Federal Highways Administration.

Level of Service (LOS) is "defined as a qualitative measure describing operational conditions within a traffic stream". Several factors are included in determining LOS such as: speed, delay, vehicle density, freedom to maneuver, traffic interruptions, driver comfort, and safety. LOS "A", "B", and "C" are considered satisfactory levels of service. LOS "D" is generally considered a "desirable minimum" operating level of service. LOS "E" is an undesirable condition and LOS "F" is an unacceptable condition.

"Volume-to-capacity" (v/c) ratio is another measure indicating the relative traffic demand to the road's traffic carrying ability. A v/c ratio of 0.50 indicates that the traffic demand is utilizing 50% of the roadway's capacity.

2. AM Peak Hour Traffic Analysis

The AM peak hour of traffic in the vicinity of the project occurs between 7:15 AM and 8:15 AM. Lehua Street at Mamalahoa Highway operates at LOS "D" during the existing AM peak hour of traffic. The remaining intersections and roadways in the study area operate at satisfactory LOS during existing AM peak hour of traffic. Figure 3 shows the existing AM peak hour traffic volumes and operating LOS.

3. PM Peak Hour Traffic Analysis

The PM peak hour of traffic generally occurs between 3:45 PM and 4:45 PM. The intersections and roadways in the study operate at satisfactory LOS during the existing PM peak hour of traffic. Figure 4 shows the PM peak hour traffic volumes and operating LOS.

IV. Projected Traffic

A. Site Traffic

1. Trip Generation

The trip generation methodology used in this study is based upon generally accepted techniques developed by the Institute of Transportation Engineers (ITE) and published in "Trip Generation", 5th Edition, 1991. The ITE trip rates for a residential condominium are developed by correlating the vehicle trip generation data with various land use characteristics, such as vehicle trips per dwelling unit.





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Figure 4 - Existing PM Peak Hour Traffic

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The proposed 75-unit multi-family housing project is expected to generate a total of 41 vehicles per hour (vph) during the AM peak hour of adjacent street traffic, 7 vph entering the site and 34 vph exiting the site. During the PM peak hour, the proposed project is expected to generate 49 vph, 33 vph entering the site and 17 vph exiting the site.

B. External Traffic

1. Future Off-Site Traffic In Study Area

Honokaa Knolls is a 102-lot single family residential subdivision located immediately to the south of the project site. Honokaa Knolls is expected to be completed by 1995. Honokaa Knolls is expected to generate a total of 82 vph during the AM peak hour and 110 vph during the PM peak hour. The traffic generated by Honokaa Knolls is included in the background traffic without the proposed project.

The traffic impacts for the Honokaa Health Care Facility were analyzed in the Wilbur Smith study. The analysis is adopted for use in this study. The traffic generated by the Honokaa Health Care Facility is included in the background traffic without the proposed project.

2. Projected Through Traffic

In addition to the traffic generated by the projects discussed previously, an overall growth in traffic is projected for the Year 1996, based upon the historical growth in traffic in the study area. The historical growth rates in traffic vary from 3.5% to 5.5% in the study area.

3. Total Traffic Volumes Without Project

During the AM peak hour of traffic without the proposed project, Lehua Street at Mamalahoa Highway is expected to operate at LOS E. The remaining intersections and roadways in the study area operate at satisfactory LOS during projected 1996 AM peak hour of traffic. Figure 5 shows the 1996 AM peak hour traffic volumes and operating LOS, without the proposed project.

By 1996, Mamalahoa Highway, west of Plumeria Street, is expected to operate at LOS "D" and a v/c ratio of 0.34, during the PM peak hour without the proposed project. Lehua Street at Mamalahoa Highway is expected to operate at LOS "D". The remaining intersections and roadways in the study

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Figure 5 - 1996 AM Peak Hour Traffic Without Project

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area operate at satisfactory LOS during 1996 PM peak hour of traffic without the proposed project. Figure 6 shows the projected PM peak hour traffic without the proposed project, respectively.

C. Total Traffic With Project

The site-generated traffic is superimposed over the projected 1996 background traffic. Figures 7 and 8 show the AM and PM peak hour traffic with the proposed project, respectively. The traffic impact analysis is discussed in the following section.

V. Traffic Impact Analysis

A. AM Peak Hour With Project

During the cumulative AM peak hour with the proposed project, Lehua Street at Mamalahoa Highway is expected to operate at LOS "F". Traffic crossing or turning onto Mamalahoa Highway can be expected to experience long delays. The Levels of Service at the remaining intersections in the study area either remain the same as the projected conditions without the project or operate at satisfactory Levels of Service. The project access is expected to operate at LOS "A" during the AM peak hour. The site-generated traffic is expected to utilize about 1% of capacity on Mamalahoa Highway.

B. PM Peak Hour With Project

Lehua Street at Mamalahoa Highway is expected to operate at LOS "E" during the cumulative PM peak hour with the proposed project. The remaining Levels of Service in the study area either remain the same as the projected conditions without the project or operate at satisfactory LOS during the cumulative PM peak hour of traffic with the proposed project. The project access is expected to operate at LOS "A" during the PM peak hour. The site-generated traffic is expected to utilize between 1% and 2% of capacity on Mamalahoa Highway.

VI. Recommended Road Improvements

A. Improvements to Accommodate Future Traffic Without Project

Exclusive left turn lanes are expected to be warranted on Mamalahoa Highway at Lehua Street by the Year 1996 without the proposed project, based upon the American Association of State Highway and Transportation Officials



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Figure 6 - 1996 PM Peak Hour Traffic Without Project

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Figure 7 - Cumulative AM Peak Hour Traffic With Project

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Figure 8 - Cumulative PM Peak Hour Traffic With Project

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(AASHTO) guidelines. An alternative to widening Mamalahoa Highway would be to lower the operating speed on Mamalahoa Highway to 40 mph. The posted speed limit is 55 mph. Under the lower operating speed, exclusive left turn lanes would not be warranted. The lower operating speed also would improve the Levels of Service on the side street access.

B. Improvements to Accommodate the Site Generated Traffic

- The mauka bound approach of Lehua Street at Mamalahoa Highway should be widened to provide an exclusive left turn lane. The separate left turn lane would improve the left turn movement from LOS "F" to LOS "E" during the AM peak hour. During the PM peak hour, the left turn movement from Lehua Street to Mamalahoa Highway would improve from LOS "E" to LOS "D".
- 2. Clear lines of sight from the project access driveway to Lehua Street, in both directions, should be established to accommodate adequate driveway sight distances. Appropriate sight distances should be determined at the design stage of the project.

VII. Conclusions

The traffic impact analysis, contained herein, is based upon the development of other projects in the vicinity within the time frame of this project, and an additional background growth in traffic based upon historical trends.

Based upon the analysis and with the implementation of the recommendations discussed herein, the proposed Honokaa Public Housing Project is not expected to have a significant impact on traffic operations in the study area.