

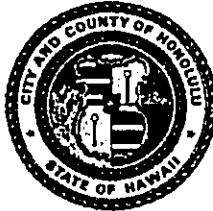
DEPARTMENT OF PUBLIC WORKS  
**CITY AND COUNTY OF HONOLULU**

650 SOUTH KING STREET  
HONOLULU, HAWAII 96813

RECEIVED

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OFC. OF ENVIRONMENTAL  
QUALITY CONTROL



FRANK F. FASI  
MAYOR

SAM CALLEJO  
DIRECTOR AND CHIEF ENGINEER

IN REPLY REFER TO:

90-11-0034

January 24, 1990

Dr. Marvin T. Miura, Director  
Office of Environmental Quality Control  
State of Hawaii  
465 South King Street, Room 104  
Honolulu, Hawaii 96813

Dear Dr. Miura:

Subject: Negative Declaration for the Proposed Land Acquisition for  
the Moanalua Earth Movement Area, Honolulu, Oahu, Hawaii  
TMK: 1-1-44

This letter constitutes a notice of Negative Declaration by the proposing agency after the subject action has been assessed according to Title 11, Chapter 200, Environmental Impact Statement Rules, and Chapter 343, HRS. The acquisition of certain improved parcels in the Moanalua Earth Movement area will involve the use of City funds. A determination has been made that an environmental impact statement is not required based on an environmental assessment which was prepared by the Department of Public Works. Four (4) copies of the environmental assessment are attached.

The pertinent information for this notice of determination is summarized below:

1. Proposing Agency. Department of Public Works, City and County of Honolulu, Hawaii.
2. Description of the Proposed Action. The proposed action is to acquire easements and lands in fee in the earth movement area in Moanalua, Honolulu, Hawaii, identified as Tax Map Key: 1-1-44 which will be utilized in the construction of improvements to alleviate the earth movement in the area. After construction is completed, the parcel will be regraded as needed.

The anticipated cost of land acquisition is estimated to be approximately \$800,000 and will be assumed by the City and County.

3. Determination. After completing an environmental assessment (and consulting with other agencies and individuals), we have determined that the proposed acquisition will not have significant impact on the environment, and an environmental impact statement is not required.

Dr. Marvin T. Miura  
Page 2  
January 24, 1990

4. Reasons Supporting the Determination. Reasons supporting the determination are based on the following criteria.
- a. The proposed action will, indirectly, minimize social and economic impacts on the affected residents from the earth movement.
  - b. The proposal does not change the existing land uses and zonings. After acquisition, parcels may be used for construction of drainage, structural or other improvements or may be left vacant.
  - c. No rare or endangered wildlife exists in the affected area.
  - d. No archaeological or cultural sites will be affected by the proposed land acquisition.
  - e. There is no conflict with the State's long-term environmental policies, goals and guidelines.
5. Contact Person: Michael Street, Deputy Director  
Department of Public Works  
Honolulu Municipal Building, 11th Floor  
650 South King Street  
Honolulu, Hawaii 96813
- Telephone: 523-4641

Very truly yours,

*C. Michael Street*

*for* SAM CALLEJO  
Director and Chief Engineer

Attach.

cc: Dept. of Land Utilization

1990-02-08-0A-FAA

FILE COPY

DEPARTMENT OF PUBLIC WORKS  
CITY AND COUNTY OF HONOLULU  
ENVIRONMENTAL ASSESSMENT

FOR THE

\*LAND ACQUISITION OF IMPROVED RESIDENTIAL HOUSE PARCELS  
WITHIN THE MOANALUA EARTH MOVEMENT AREA  
OF MOANALUA, HONOLULU, OAHU, HAWAII \*  
TAX MAP KEY: 1-1-44

This document is prepared pursuant to Chapter 343, HRS.

PROPOSING AGENCY: DEPARTMENT OF PUBLIC WORKS  
CITY AND COUNTY OF HONOLULU  
650 SOUTH KING STREET  
HONOLULU, HAWAII 96813

RESPONSIBLE OFFICIAL: C. Michael Street 4/29/90  
by SAM CALLEJO Date  
Director and Chief Engineer

PREPARED BY  
STRUCTURAL SECTION  
DIVISION OF ENGINEERING

## TABLE OF CONTENTS

	<u>Page</u>
I. Description of Proposed Action and Statement of Objective	1
II. Description of Affected Area	2
III. Agencies Consulted in Making This Assessment	3
IV. Summary of Impact and Proposed Mitigating Measures	3
V. Alternatives Considered	4
VI. Determination	4
VII. Reasons for Supporting Determination	4
Appendix A - Location Map	
Appendix B - Soil Classification Map	
Appendix C - Land Use Map	
Appendix D - Comments	

## I. DESCRIPTION OF PROPOSED ACTION AND STATEMENT OF OBJECTIVES

### A. Introduction

The Moanalua site is located within the northwesterly half of Moanalua Valley (See Appendix A). It includes Ala Lani and Ala Aolani. The area is subject to earth movement which may affect the structural stability of municipal infrastructures.

The land in Moanalua Valley ranges in slope from 0 to 1 1/2:1.

The ground elevations in the valley vary from 94 to 325 feet above Mean Sea Level.

The area is a residential subdivision constructed in the early 1960's.

A series of underground utility lines, such as water and sewer, were probably constructed at about the same time the roads were constructed. Other utilities may have been added later.

The earth movement is believed to have been caused by water infiltration into the subsurface soil and removal of local lateral support by displacement and net removal of soil material from its toe. The water infiltration will decrease the shear strength of the soil and also increase its unit weight. These factors will affect the stability of the existing slopes by reducing the resisting force and inducing an additional driving force.

The City plans to acquire easements or lands in fee for certain selected parcels within the affected area in order to construct improvements which will reduce both the load at the head of the slide and the amount of water infiltration into the subsurface soil.

### B. Proposed Actions and Objectives

The proposed action consists of the acquisition of easements or lands in fee of selected parcels in Moanalua Valley (Tax Map Key: 1-1-44) with the general objective of mitigating the adverse effect of the earth movement. The land acquisition will cost approximately \$600,000.00. It will be funded by the City Capital Improvement Program budget in FY 1989-90.

C. Basis of the Proposed Action

Earth movement in the Moanalua area is primarily caused by water infiltration into the subsurface soil which decreases the shear strength of the soil and increases its unit weight. The stability of the existing slopes is affected by a reduction in the resisting force and the presence of additional driving forces. The acquisition of certain land parcels is needed to protect City facilities subject to damage when the slide progresses, alleviate a potentially hazardous condition affecting the safety of the surrounding area, reduce the load at the head of the slide and facilitate improvements which will attempt to reduce the amount of water infiltration into the subsurface soil.

II. DESCRIPTION OF AFFECTED AREA

A. Location

Parcels in fee will be acquired for the earth movement area in Moanalua Valley. The City will obtain easements within the area as necessary. The area is in the vicinity of Ala Lani and Ala Aolani.

B. Population

The affected area is part of Census Tract (CT) 67.01. This census tract had a resident population of 7,514 in 1985 in 3,400 residential units. There are nine housing units in the affected area. The number of lots to be acquired has not been determined at this time.

C. Climate

Temperature and precipitation are recorded at Honolulu International Airport. The average temperature ranged from 72.6 degrees fahrenheit during the winter to 81 degrees fahrenheit during the summer. Average annual precipitation was 23 inches.

D. Land Use

The major land uses of the immediate area are residential. Any related construction improvements are consistent with the Primary Urban Center Development Plan Public Facilities Map.

E. Historic or Cultural Sites

The closest historic site is Pohaku Ka Luahine (80-10-93), part of the Samuel M. Damon Estate. It is listed

in the 1988 edition of the Hawaii Register of Historic Places and is approximately 2000 feet northeast of the area involved.

F. Wildlife and Flora

Within the affected area, domesticated and feral wildlife, and ornamental flora are known to exist.

III. AGENCIES CONSULTED IN MAKING THIS ASSESSMENT

The following agencies of the City and County of Honolulu were consulted in the preparation of this assessment.

1. Board of Water Supply
2. Department of General Planning
3. Department of Transportation Services
4. Department of Land Utilization

Appendix D contains comments on the environmental assessment.

IV. SUMMARY OF IMPACT AND PROPOSED MITIGATING MEASURES

A. Acquisition Impact

The acquisition of certain land parcels within the Moanalua Valley Movement Area will not have an adverse impact on the environment. The parcels will be used in conjunction with proposed improvements which are intended to mitigate the earth movement problems in the affected area. Structures on the parcels will be demolished and removed. Thereafter, the parcel will be regraded as needed. Property owners will be compensated.

B. Other Impact

The proposed land acquisition related to the construction of improvements is expected to reduce the earth movement in the area, thereby minimizing the potential adverse economic and social impact on residents in the affected area.

C. Long-Term Impact

It is believed that there will be no long-term adverse effect on the community by the City's acquisition. Other residential lots in the area may benefit from the proposed improvements.

## V. ALTERNATIVES CONSIDERED

Several alternatives were considered. They included the alternatives of No Action and the Proposed Action.

### A. No Action Alternative

Under this alternative, proposed improvements, designed to mitigate earth movement, cannot be implemented because of the inadequate public right-of-way. Hence, earth movement may continue to grow and possibly accelerate. This will result in more damage to existing homes and possibly spread to adjacent areas.

### B. Proposed Action

Under the alternative, certain parcels will be acquired to facilitate the construction of improvements which are intended to reduce the adverse effects of the earth movement in the affected area.

## VII. DETERMINATION

After preparing an environmental assessment, we have determined that the proposed project will not have a significant impact on the environment, and an environmental impact statement will not be prepared.

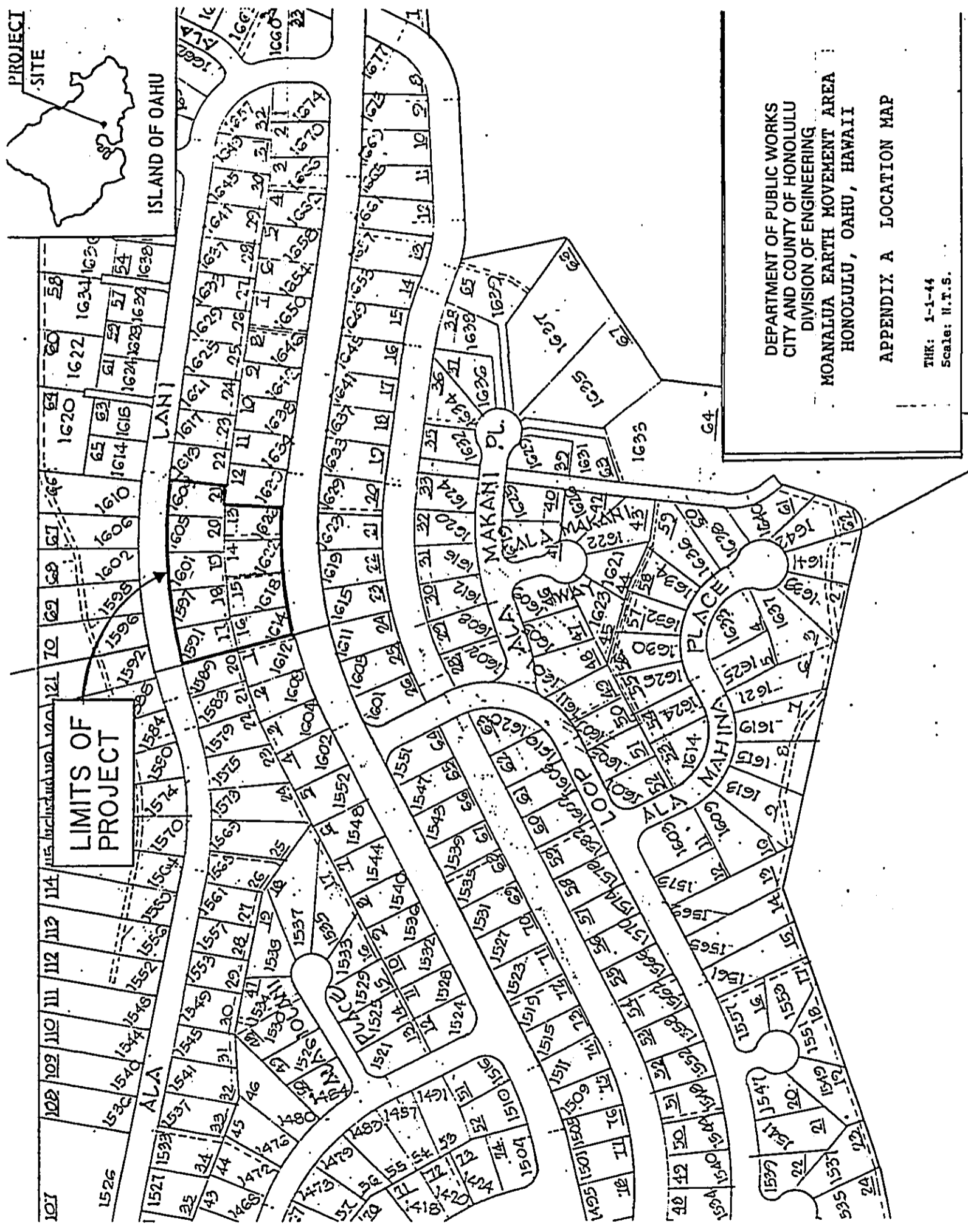
## VIII. REASONS FOR SUPPORTING DETERMINATION

Based on the criteria, the policies, guidelines, and provisions of Chapters 342, 343 and 344, HRS, the reasons supporting the Negative Declaration determination are that the proposed project will not:

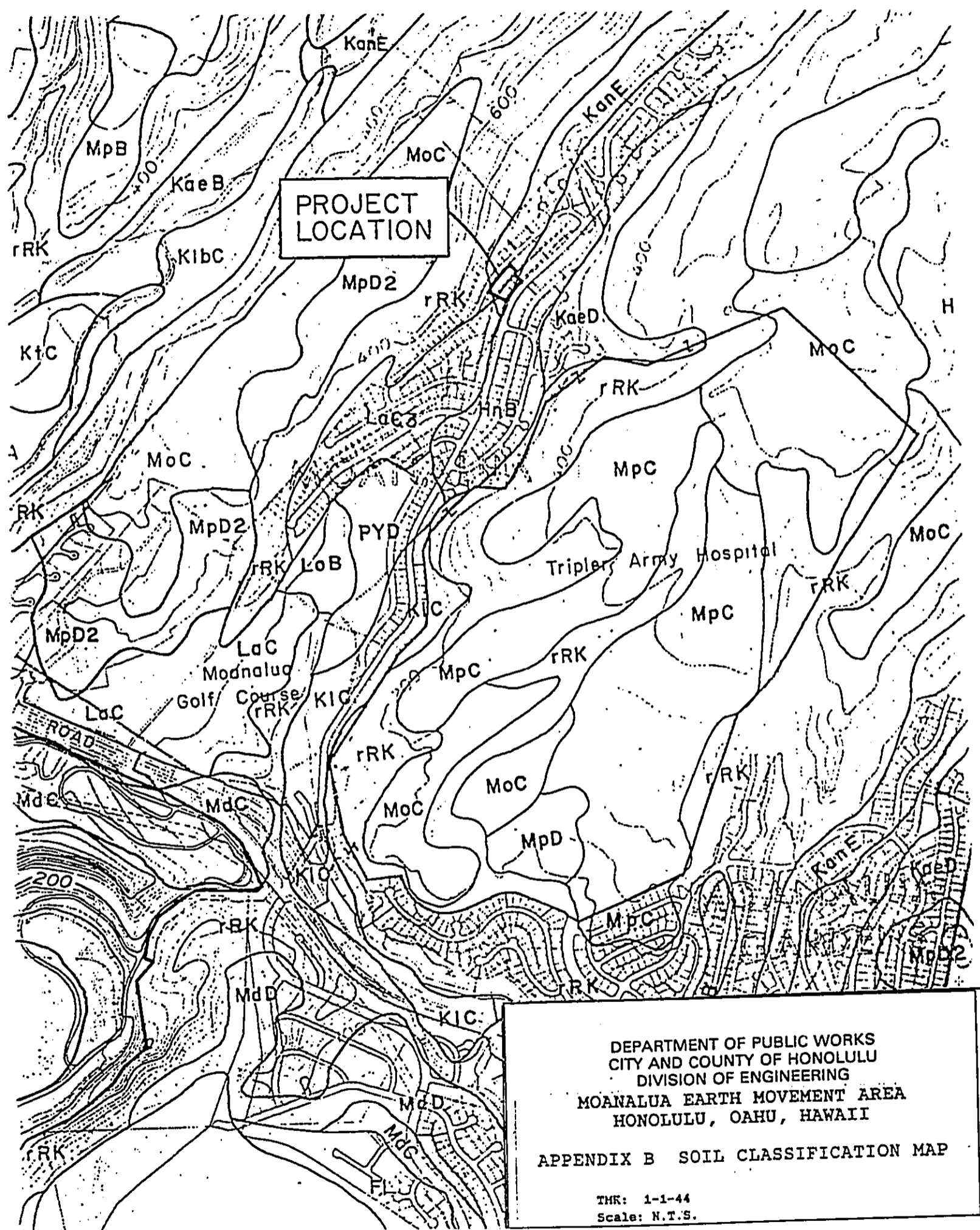
- affect rare or endangered species of flora or fauna.
- affect any natural or cultural resources.
- affect undeveloped lands.
- conflict with existing land use and development plans.
- have significant long term effect on air quality, water quality or ambient noise levels.
- be located in close proximity to any known natural, historic, or archaeological sites.



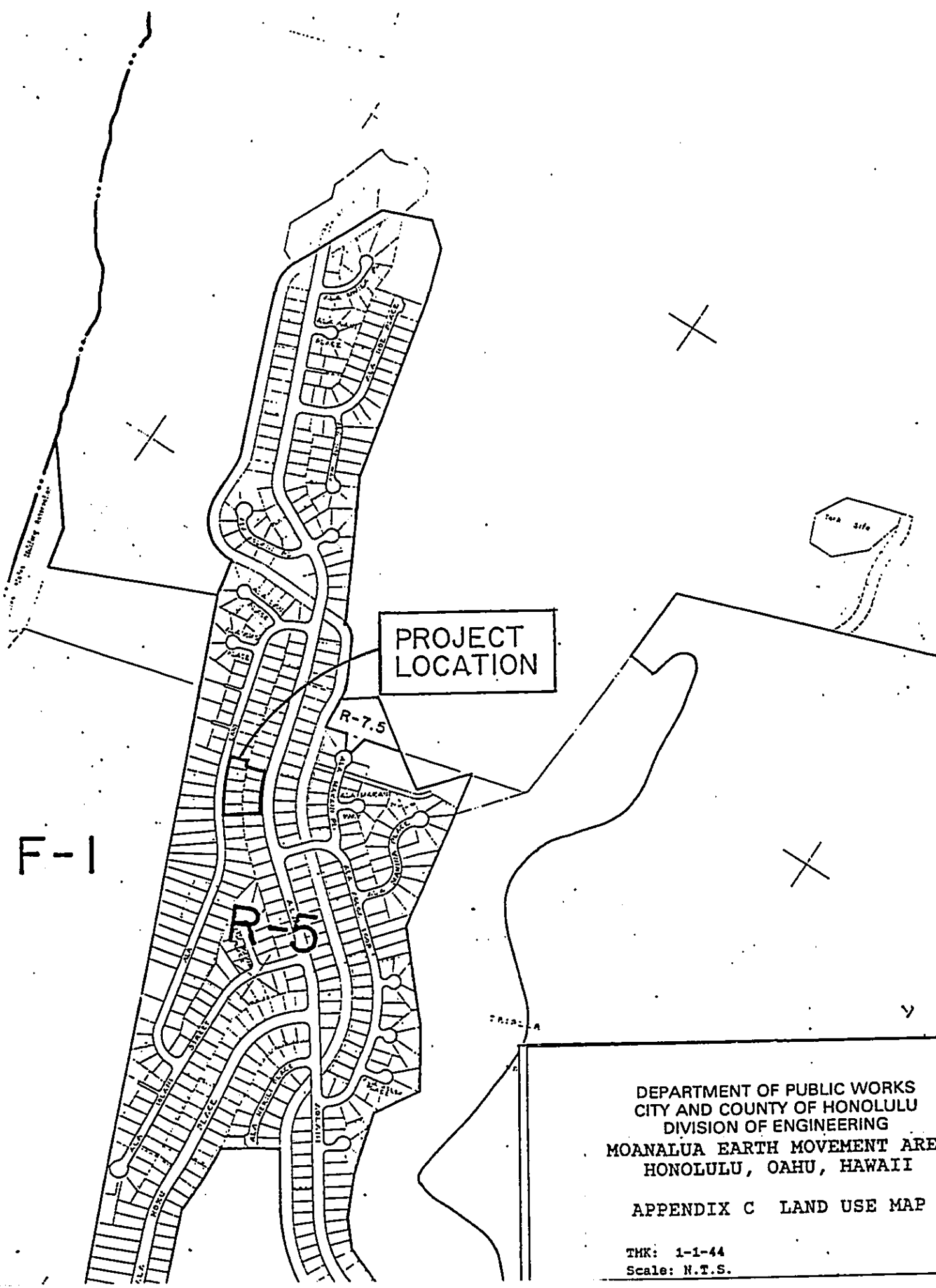
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DEPARTMENT OF PUBLIC WORKS  
 CITY AND COUNTY OF HONOLULU  
 DIVISION OF ENGINEERING  
 MOANALUA EARTH MOVEMENT AREA  
 HONOLULU, OAHU, HAWAII

APPENDIX C LAND USE MAP

THR: 1-1-44  
 Scale: N.T.S.

MOANALUA EARTH MOVEMENT AREA  
HONOLULU, OAHU, HAWAII

APPENDIX D COMMENTS

BOARD OF WATER SUPPLY

CITY AND COUNTY OF HONOLULU

131 SOUTH BERETANA STREET

HONOLULU HAWAII 96813

RECEIVED  
DEPT. OF PUBLIC WORKS  
JAN 10 1990

12/22/89 M.S. DIV. DIR. ENV. CC: ENV 89-6751

FRANK HAS MAW  
DONNA S. COLE, Chairman  
JOHN A. TAYLOR, Chief Engineer  
EDITH W. SAMPSON, Chief Engineer  
SAM CALLEJO  
EDWARD T. MATA  
WALTER C. RAYSON, JR.  
WALTER W. TAMASATO  
ALAN M. HARRIS  
Manager and Chief Engineer

December 22, 1989

SAM CALLEJO, DIRECTOR AND CHIEF ENGINEER  
DEPARTMENT OF PUBLIC WORKS

FROM: KAZU HAYASHIDA, MANAGER AND CHIEF ENGINEER  
BOARD OF WATER SUPPLY

SUBJECT: YOUR MEMORANDUM (89-11-0482) OF DECEMBER 5, 1989  
REGARDING THE ENVIRONMENTAL ASSESSMENT FOR THE LAND  
ACQUISITION OF IMPROVED RESIDENTIAL HOUSE LOTS  
WITHIN THE MOANALUA EARTH MOVEMENT AREA OF MOANALUA,  
HONOLULU, OAHU, HAWAII, TMN: 1-1-44

We have no objections to the proposed acquisition of the improved residential lots. The construction plans for future improvements to mitigate earth movement problems which may affect our water system in that area should be coordinated and submitted for our review and approval.

If you have any questions, please contact Lawrence Whang at 527-6138.

DEPARTMENT OF PUBLIC WORKS  
CITY AND COUNTY OF HONOLULU

131 SOUTH BERETANA STREET  
HONOLULU HAWAII 96813



SAM CALLEJO  
DIRECTOR AND CHIEF ENGINEER  
DEPARTMENT OF PUBLIC WORKS  
89-11-0023

January 16, 1990

MEMORANDUM

TO: MR. KAZU HAYASHIDA, MANAGER AND CHIEF ENGINEER  
BOARD OF WATER SUPPLY

FROM: SAM CALLEJO, DIRECTOR AND CHIEF ENGINEER

SUBJECT: ENVIRONMENTAL ASSESSMENT FOR THE LAND ACQUISITION  
FOR THE MOANALUA EARTH MOVEMENT AREA OF  
MOANALUA, HONOLULU, OAHU, HAWAII  
TMN: 1-1-44

Thank you for your letter dated December 22, 1989 regarding the subject environmental assessment. We will coordinate any related construction improvements with your staff.

*Mein T. Fukuzawa*  
For SAM CALLEJO  
Director and Chief Engineer

AK:c1

# CORRECTION

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

DOCUMENT CAPTURED AS RECEIVED

BOARD OF WATER SUPPLY

CITY AND COUNTY OF HONOLULU

430 SOUTH BERTANA STREET

HONOLULU HAWAII 96813

12/22/89 M.S. D.K. ENG. 12/22/89 cc: ENUV 89-6751

FRANK PAB MANE  
DONNA E. GOIN, Chairman  
JOHN A. TSU, Vice Chairman  
ESTER M. DAVILA, M.D., M.P.H., C.S.P.  
SAM CALLEJO  
EDWARD Y. HATA  
WALTER C. HAYSON, JR.  
WALTER T. YAMASATO  
WALTER T. YAMASATO  
Manager and Chief Engineer

December 22, 1989

89-11-0482  
12/22/89  
11:10 AM

SAM CALLEJO, DIRECTOR AND CHIEF ENGINEER  
DEPARTMENT OF PUBLIC WORKS

FROM: KAZU HAYASHIDA, MANAGER AND CHIEF ENGINEER *K.H.*  
BOARD OF WATER SUPPLY

SUBJECT: YOUR MEMORANDUM (89-11-0482) OF DECEMBER 5, 1989  
REGARDING THE ENVIRONMENTAL ASSESSMENT FOR THE LAND  
ACQUISITION OF IMPROVED RESIDENTIAL HOUSE LOTS  
WITHIN THE MOANALUA EARTH MOVEMENT AREA OF MOANALUA,  
HONOLULU, OAHU, HAWAII. TRK: 1-1-44

We have no objections to the proposed acquisition of the improved residential lots. The construction plans for future improvements to mitigate earth movement problems which may affect our water system in that area should be coordinated and submitted for our review and approval.

If you have any questions, please contact Lawrence Khang at 527-6138.

DEPARTMENT OF PUBLIC WORKS  
CITY AND COUNTY OF HONOLULU

430 SOUTH BERTANA STREET  
HONOLULU HAWAII 96813



SAM CALLEJO  
DIRECTOR AND CHIEF ENGINEER  
DEPARTMENT OF PUBLIC WORKS  
50-11-0023

January 16, 1990

MEMORANDUM

TO: MR. KAZU HAYASHIDA, MANAGER AND CHIEF ENGINEER  
BOARD OF WATER SUPPLY

FROM: SAM CALLEJO, DIRECTOR AND CHIEF ENGINEER

SUBJECT: ENVIRONMENTAL ASSESSMENT FOR THE LAND ACQUISITION  
FOR THE MOANALUA EARTH MOVEMENT AREA OF  
MOANALUA, HONOLULU, OAHU, HAWAII  
TRK: 1-1-44

Thank you for your letter dated December 22, 1989 regarding the subject environmental assessment. We will coordinate any related construction improvements with your staff.

*Mein T. Fujigawa*  
For SAM CALLEJO  
Director and Chief Engineer

SK:cl

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CITY AND COUNTY OF HONOLULU  
HONOLULU MUNICIPAL BUILDING  
500 SOUTH KING STREET  
HONOLULU HAWAII 96813



DEPT OF PUBLIC WORKS

JAN 5 7 47 AM '90

JOSEPH W. CALLEJO, JR.  
DIRECTOR

TE-7898  
PL1.1891  
89-11-0482

ENVDL  
90-6575  
ENG

January 4, 1990

MEMORANDUM

TO: SAM CALLEJO, DIRECTOR AND CHIEF ENGINEER  
DEPARTMENT OF PUBLIC WORKS

FROM: ALFRED J. THIEDE, DIRECTOR

SUBJECT: MOANALUA VALLEY, EARTH MOVEMENT AREA  
ENVIRONMENTAL ASSESSMENT FOR LAND ACQUISITION  
TMA: 1-1-44

JAN 10 11 00 AM '90

This is in response to your memorandum of December 5, 1989, requesting review and comments on the subject project.

Our traffic concerns during the construction phase of this project are as follows:

1. All dirt and debris must be cleaned or kept off the roadways and sidewalks.
2. The roadways and sidewalks must be kept open for the passage of vehicles and pedestrians at all times.

Should you have further questions, please contact Wayne Nakamoto of my staff at 523-4190.

*Alfred J. Thiede*  
ALFRED J. THIEDE

DEPARTMENT OF PUBLIC WORKS  
CITY AND COUNTY OF HONOLULU  
500 SOUTH KING STREET  
HONOLULU HAWAII 96813



SAM CALLEJO  
DIRECTOR AND CHIEF ENGINEER  
MEMO REFER TO  
90-11-0022

January 16, 1990

MEMORANDUM

TO: MR. ALFRED J. THIEDE, DIRECTOR  
DEPARTMENT OF TRANSPORTATION SERVICES

FROM: SAM CALLEJO, DIRECTOR AND CHIEF ENGINEER

SUBJECT: ENVIRONMENTAL ASSESSMENT FOR THE LAND ACQUISITION  
FOR THE MOANALUA EARTH MOVEMENT AREA OF  
MOANALUA, HONOLULU, OAHU, HAWAII  
TMA: 1-1-44

Thank you for your letter dated January 4, 1990 regarding the subject environmental assessment. We will conform to the requirements outlined in your letter.

*e. Michael Steub*  
for SAM CALLEJO  
Director and Chief Engineer

AK:cl



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CITY AND COUNTY OF HONOLULU

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OFFICE OF THE CITY CLERK  
JAN 19 3 32 AM '90



91-0224 Dep/Dia  
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ENR

DONALD A. CLEGG  
LORETTA K.C. CHEE  
DEPUTY DIRECTOR

January 18, 1990

MEMORANDUM

TO: SAM CALLEJO, DIRECTOR  
DEPARTMENT OF PUBLIC WORKS

FROM: DONALD A. CLEGG, DIRECTOR  
DEPARTMENT OF LAND UTILIZATION

SUBJECT: ENVIRONMENTAL ASSESSMENT FOR THE LAND ACQUISITION OF IMPROVED  
RESIDENTIAL HOUSE LOTS WITHIN THE MOANALUA EARTH MOVEMENT AREA OF  
MOANALUA, HONOLULU, OAHU, HAWAII  
TAX MAP KEY: 1-1-44 VARIOUS PARCELS

We have reviewed the Environmental Assessment (EA) for the subject project and offer the following comments:

- The document does not clearly describe the project. Section B, "Proposed Actions and Objectives," is limited to land acquisition while other sections of the report indicate that the existing structures will be demolished and that "construction improvements" will be undertaken.
- The EA should clearly describe all of the actions that are being considered under the project. If the project is limited to land acquisition, then the EA that you have prepared is adequate.
- If the project includes stabilization measures, it is advisable that the title of the document be revised to reflect that.
- In our opinion, an Environmental Impact Statement will not be required.

Thank you for the opportunity to comment on the subject project. Should you have any questions regarding the above, you may call Ardis Shaw-Kim of our staff at x4648.

Very truly yours,

*Donald A. Clegg*  
DONALD A. CLEGG  
Director of Land Utilization

DAC:s1  
0231N/20

January 22, 1990

MEMORANDUM

TO: MR. DONALD A. CLEGG, DIRECTOR  
DEPARTMENT OF LAND UTILIZATION

FROM: SAM CALLEJO, DIRECTOR AND CHIEF ENGINEER  
DEPARTMENT OF PUBLIC WORKS

SUBJECT: ENVIRONMENTAL ASSESSMENT FOR THE LAND ACQUISITION  
OF IMPROVED RESIDENTIAL HOUSE LOTS WITHIN THE  
MOANALUA EARTH MOVEMENT AREA OF MOANALUA,  
HONOLULU, OAHU, HAWAII. TMK: 1-1-44

Thank you for your letter dated January 18, 1990 regarding the subject environmental assessment. As discussed with your staff, the subject environmental assessment is limited to land acquisition.

*Sam Callejo*  
SAM CALLEJO  
Director and Chief Engineer

HK:pio

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CITY AND COUNTY OF HONOLULU

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93-6522

DONALD A. CLEGG

MH/DGP 12/89-4555

December 27, 1989

MEMORANDUM

TO: SAM CALLEJO, DIRECTOR AND CHIEF ENGINEER  
DEPARTMENT OF PUBLIC WORKS

FROM: DONALD A. CLEGG, CHIEF PLANNING OFFICER  
DEPARTMENT OF GENERAL PLANNING

SUBJECT: ENVIRONMENTAL ASSESSMENT FOR THE LAND ACQUISITION OF  
IMPROVED RESIDENTIAL HOUSE LOTS WITHIN THE MOANALUA  
EARTH MOVEMENT AREA OF MOANALUA, HONOLULU, OAHU.  
HAWAII TMK: 1-1-44: 13-21

Thank you for the opportunity to review and comment on the subject environmental assessment. We have the following comments to offer for your consideration.

1. We understand that a subsurface soil assessment is being prepared by STV Liance. This subsurface soil assessment should determine the extent of the area that may be susceptible to earth movement with respect to the selected parcels in the "LIMITS OF PROJECT" on Figure 1. The results of this assessment should be included in the environmental assessment.
2. With regards to the technical aspect of the proposed action and mitigative measures, more specific information should be provided for any future construction improvements.
3. List all agencies that were consulted in preparing the environmental assessment.

Sam Callejo, Director and Chief Engineer  
Department of Public Works  
Page 2  
December 27, 1989

We hope these comments are helpful in preparing the Notice of Determination. Based on the preliminary information provided, it appears that a Negative Declaration for the proposed action would be appropriate. If you have any questions regarding our comments, please contact Matthew Higashida at 527-6056.

Sincerely,

*Donald A. Clegg*  
DONALD A. CLEGG  
Chief Planning Officer

DAC:lh

DEPARTMENT OF PUBLIC WORKS  
CITY AND COUNTY OF HONOLULU

200 SOUTH KING STREET  
HONOLULU, HAWAII



Sam Callejo  
Director and Chief Engineer  
408-211-0024  
40-11-0024

January 16, 1990

MEMORANDUM

TO: MR. BENJAMIN B. LEE, CHIEF PLANNING OFFICER  
DEPARTMENT OF GENERAL PLANNING

FROM: SAM CALLEJO, DIRECTOR AND CHIEF ENGINEER

SUBJECT: ENVIRONMENTAL ASSESSMENT FOR THE LAND ACQUISITION FOR  
THE HOANALUA EARTH MOVEMENT AREA OF  
HOANALUA, HONOLULU, OAHU, HAWAII  
DATE: 1-1-90

Thank you for your letter dated December 27, 1989 regarding the subject environmental assessment. As discussed with Mr. Matthew Higashida of your staff, due to the urgency of the land acquisition, we will not incorporate the completed subsurface report in the environmental assessment.

*Sam Callejo*  
SAM CALLEJO  
Director and Chief Engineer

ml:cl

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