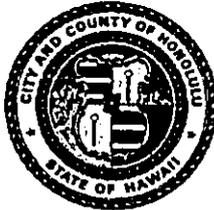


DEPARTMENT OF PUBLIC WORKS
CITY AND COUNTY OF HONOLULU

650 SOUTH KING STREET
HONOLULU, HAWAII 96813

FRANK F. FASI
MAYOR



RECEIVED

SAM CALLEJO
DIRECTOR AND CHIEF ENGINEER

'91 OCT 11 AS 23

IN REPLY REFER TO:
91-11-0262

October 7, 1991

OFF. OF ENVIRON.
QUALITY CON.

Mr. Brian J. J. Choy, Director
Office of Environmental Quality Control
220 South King Street, 4th Floor
Honolulu, Hawaii 96813

Dear Mr. Choy:

Subject: Notice of Negative Declaration for Manoa-Palolo Stream Maintenance Ramp at Koali Road, Honolulu, Oahu, Hawaii, Tax Map Key: 2-8-27

The Department of Public Works has reviewed the environmental assessment for the Manoa-Palolo Stream Maintenance Ramp at Koali Road, and has determined that the project will not have any significant impacts on the environment. Based on our determination, we are filing a Notice of Negative Declaration for this project.

Enclosed are four (4) copies of the Notice of Negative Declaration.

Please contact Jolie Nishikawa at 523-4041 with any questions you may have in regard to this matter. Thank you.

Very truly yours,

Moin T. Fukagawa
for SAM CALLEJO
Director and Chief Engineer

Encl.

185

1991-10-23-OA FEA -

FILE COPY

DEPARTMENT OF PUBLIC WORKS
CITY AND COUNTY OF HONOLULU

NOTICE OF NEGATIVE DECLARATION

FOR THE

* MANOA-PALOLO STREAM MAINTENANCE RAMP

AT KOALI ROAD *

HONOLULU, OAHU, HAWAII

TAX MAP KEY: 2-8-27

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
for SAM CALLEJO
Director and Chief Engineer

10/8/91
DATE

PREPARED BY
DIVISION OF ENGINEERING
DEPARTMENT OF PUBLIC WORKS

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II. Description of Affected Environment	1
III. Agencies Consulted in Making this Assessment	2
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Appendix C - Plan	
Appendix D - Comments	

I. *DESCRIPTION OF PROPOSED ACTION AND STATEMENT OF OBJECTIVE*

The proposed project involves the construction of two reinforced concrete maintenance ramps. The first is from the embankment near Koali Road into Manoa-Palolo Stream and the second is at the velocity drop in the vicinity of Koali Road Bridge (see Appendix B - Site Map).

No permanent access to the stream invert from the roadway or from the lined portion of Palolo Stream to the Manoa-Palolo juncture is presently available. To date, a temporary access ramp of crushed rock is constructed and removed each time in order to perform maintenance work.

The proposed project will provide permanent concrete access ramps to facilitate stream maintenance operations.

II. *DESCRIPTION OF THE AFFECTED ENVIRONMENT*

The proposed project is located in Honolulu, Oahu, Hawaii (TMK: 2-8-27) at the junction of Manoa Stream and Palolo Stream near Koali Road. The project area is approximately 4 miles from the State Capitol in Honolulu (see Appendix A - Location Map). The project area is zoned residential.

The average annual rainfall in this area is 23 inches per year. The average temperature varies from 72.6 degrees to 81 degrees.

Manoa Stream is a perennial stream with unimproved banks and invert. It provides a water habitat for aquatic species such as small freshwater fish, crayfish, tadpoles, and insect and mosquito larvae. There is no vegetation in the stream near the project site. There are homes and a teahouse along its banks.

Palolo Stream is a perennial stream with a lined rectangular channel upstream of the juncture. It provides a water habitat for freshwater fish and insect and mosquito larvae. There is no vegetation in the stream near the project site. There are homes along its banks.

Wildlife in the project area consists of the usual common birds found in built-up areas of Honolulu, and no rare or endangered species are known to frequent the lands adjacent to the proposed project.

There are no known archaeological or historical sites in the immediate project area. A search of the Hawaii Register of Historic Places indicates that the closest historical site is the Church of the Crossroads located approximately 2700 feet west of the project site.

III. *AGENCIES CONSULTED IN MAKING THIS ASSESSMENT*

Copies of this environmental assessment were sent to the following agencies for review:

- A. City and County of Honolulu
 - 1. Department of General Planning
 - 2.* Department of Land Utilization
- B. State of Hawaii
 - 1. Department of Land and Natural Resources
 - 2. Department of Health
 - 3. Office of State Planning
- C. U.S. Government
 - 1. Department of Interior, Fish and Wildlife Service
 - 2. Department of the Army, Corps of Engineers
- D. Other
 - 1. Diamond Head/Kapahulu/St. Louis Heights Neighborhood Board No. 5
 - 2. Manoa Neighborhood Board No. 7
 - 3. The Honorable Andrew Mirikitani

Appendix D contains comments on the environmental assessment. After two months of review time no comments were received from: the Department of the Interior, Fish and Wildlife Service; Diamond Head/Kapahulu/St. Louis Heights Neighborhood Board No. 5; and Manoa Neighborhood Board No. 7. The Department of Land and Natural Resources responded by telephone on September 24, 1991. The Department had no comments on the environmental assessment and did not require an EIS.

IV. *GENERAL DESCRIPTION OF THE PROJECT'S TECHNICAL, ECONOMIC, SOCIAL AND ENVIRONMENTAL CHARACTERISTICS*

The construction of the maintenance ramp will entail the excavation of material from the stream embankment parallel to the stream to provide a 12% ramp slope, construction of concrete retaining walls and ramp slab (see Appendix C - Plan). The ramp will be approximately 150 feet in length.

The ramp will be constructed on land owned by the City and County of Honolulu.

The construction of the ramp in the invert near Koali Road Bridge will entail the excavation of material from the existing cutoff wall to provide a 12% ramp slope, construction of concrete retaining walls and ramp slab (see Appendix C - Typical Ramp Sections).

No adverse hydraulic effects are expected to result from the construction of the new maintenance ramp because the cross-section of the stream will not be reduced.

The project has an estimated construction cost of \$225,000. It is anticipated that construction will begin in the summer of 1992 and will take approximately 90 calendar days to complete. Capital Improvement Program funds will be utilized for the project.

The project will not require the displacement or relocation of any people.

A stream channel alteration permit for the construction of the maintenance ramp will be obtained from the State Department of Land and Natural Resources. Applications will also be filed with the Department of Health (401 Water Quality Certification), Office of State Planning and U.S. Army Corps of Engineers.

V. *IDENTIFICATION AND SUMMARY OF MAJOR IMPACTS AND PROPOSED MITIGATION MEASURES*

The environmental impact of the proposed project will be limited to the construction phase and may include the following temporary, unavoidable, adverse environmental effects:

- A. **Dust and Noise Emission:** The discharge of dust into the atmosphere may occur during the construction period. This is, however, only a short-term effect on the environment. Dust will be reduced and controlled through the application of water and/or other appropriate methods. The specifications will contain provisions that will require the Contractor to prevent dust nuisance at all times and have sufficient equipment and manpower at the job site to accomplish this.

Noise will be generated by construction equipment such as backhoes and trucks. The increase in noise level by construction equipment cannot be avoided, but will be controlled and limited to normal working daylight hours. The Contractor will be required to obtain a Community Noise Permit pursuant to Chapter 43 of the State Public Health Regulations and shall comply with the provisions of Chapter 42, Vehicular Noise Control for Oahu. Individuals that may be adversely affected by the construction noises will be residents of the surrounding community. The sound level from equipment noise has been estimated for locations at various distances from the work area. The results may be summarized as follows:

	<u>Location</u>	<u>Distance from Project</u>	<u>Sound Level dBa</u>
1.	Nearest residence	50 feet	91 dB
2.	Nearest church	2,700 feet	56 dB
3.	Nearest school	800 feet	67 dB
4.	Nearest medical center	5,000+ feet	51 dB
5.	Nearest playground	1,000 feet	65 dB
6.	Nearest library	5,000 feet	51 dB

- B. **Water Pollution:** Construction will be scheduled during the dry season (summer months) and provisions will be made to divert or transfer water around the work area. This may be accomplished through the use of diversion ditches, pumps, sandbags, etc. This will minimize erosion and sedimentation during construction activities.

The Contractor will be required to properly dispose of wash and dust control water and to take other precautionary actions during the course of construction operations to preclude the discharge of petrochemical products from construction equipment into the stream.

Proper construction methods will be used to minimize disturbance to the stream bed, and prevent the entrance of debris and other deleterious materials into the water.

- C. **Archaeological Deposits:** Since the construction involves cutting back the stream bank in an unimproved stream, the possibility that archaeological deposits may be impacted has been recognized. The specifications will require the Contractor to contact the Historic Sites Section of the Department of Land and Natural Resources in the event that such deposits are encountered.
- D. **Disturbance to Marine Life:** Since construction will occur in the summer (low flow months) the fish and wildlife usage of the stream will be limited and the impact is not considered to be significantly adverse.

VI. **ALTERNATIVES CONSIDERED**

The following courses of action were considered: (1) no action and (2) the proposed project.

Alternative 1: If no action is taken, it will be difficult to perform maintenance work in the stream due to lack of vehicular access.

Alternative 2: Completion of the proposed project will enable maintenance personnel to more effectively maintain the channel using vehicles and motorized equipment. As a result, maintenance work may be done at a comparatively lower cost utilizing in-house forces.

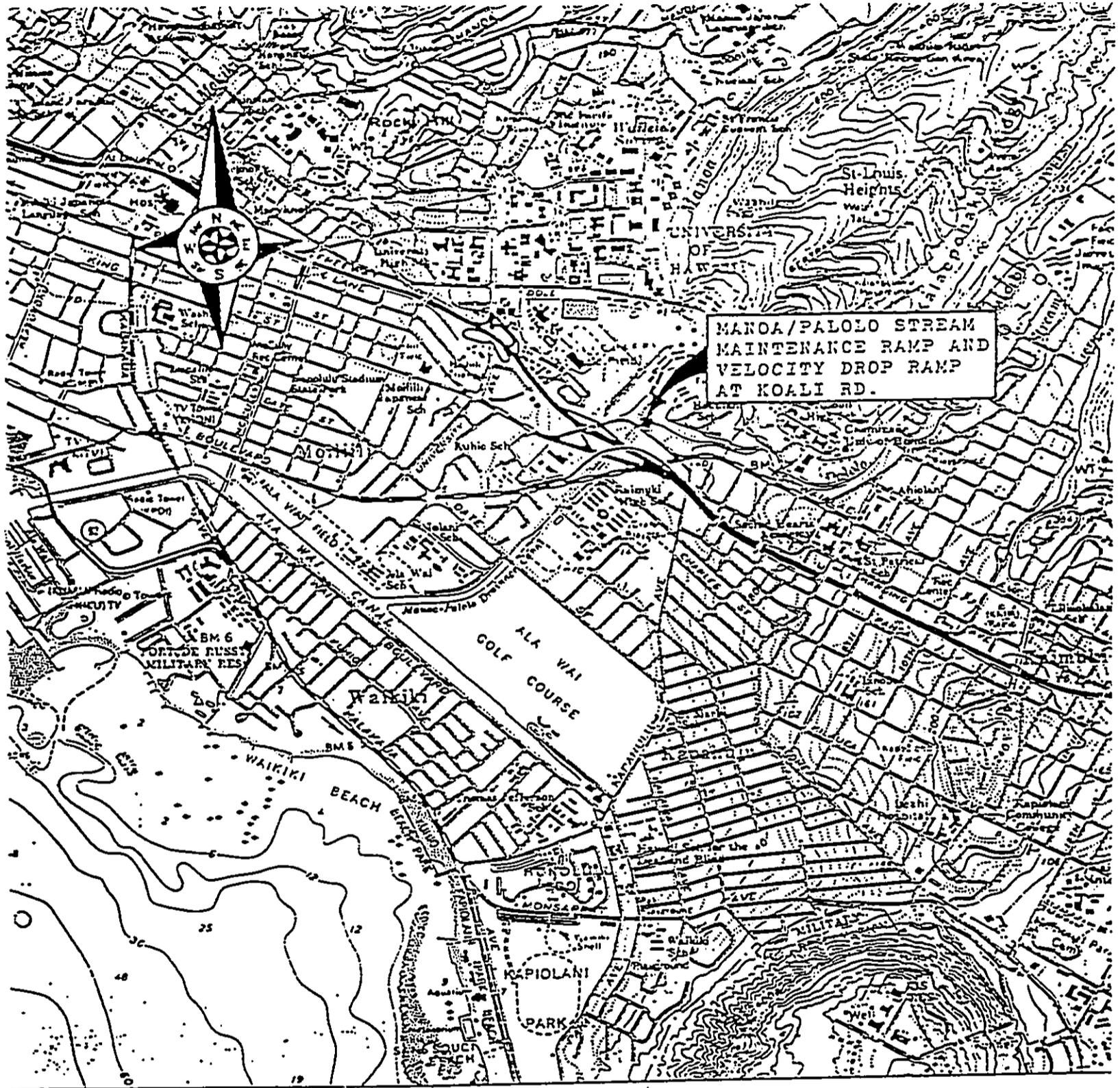
VII. *DETERMINATION*

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.

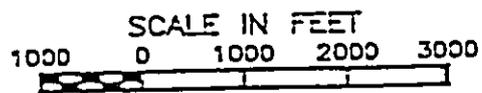
VIII. *REASONS FOR SUPPORTING DETERMINATION*

Based on the criteria, the policies, guidelines, and provisions of Chapters 342, 343, and 344, HRS, the reason supporting the Negative Declaration determination is 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.
- displace any residences or businesses.
- be located in close proximity to any known natural, historic, or archaeological sites.



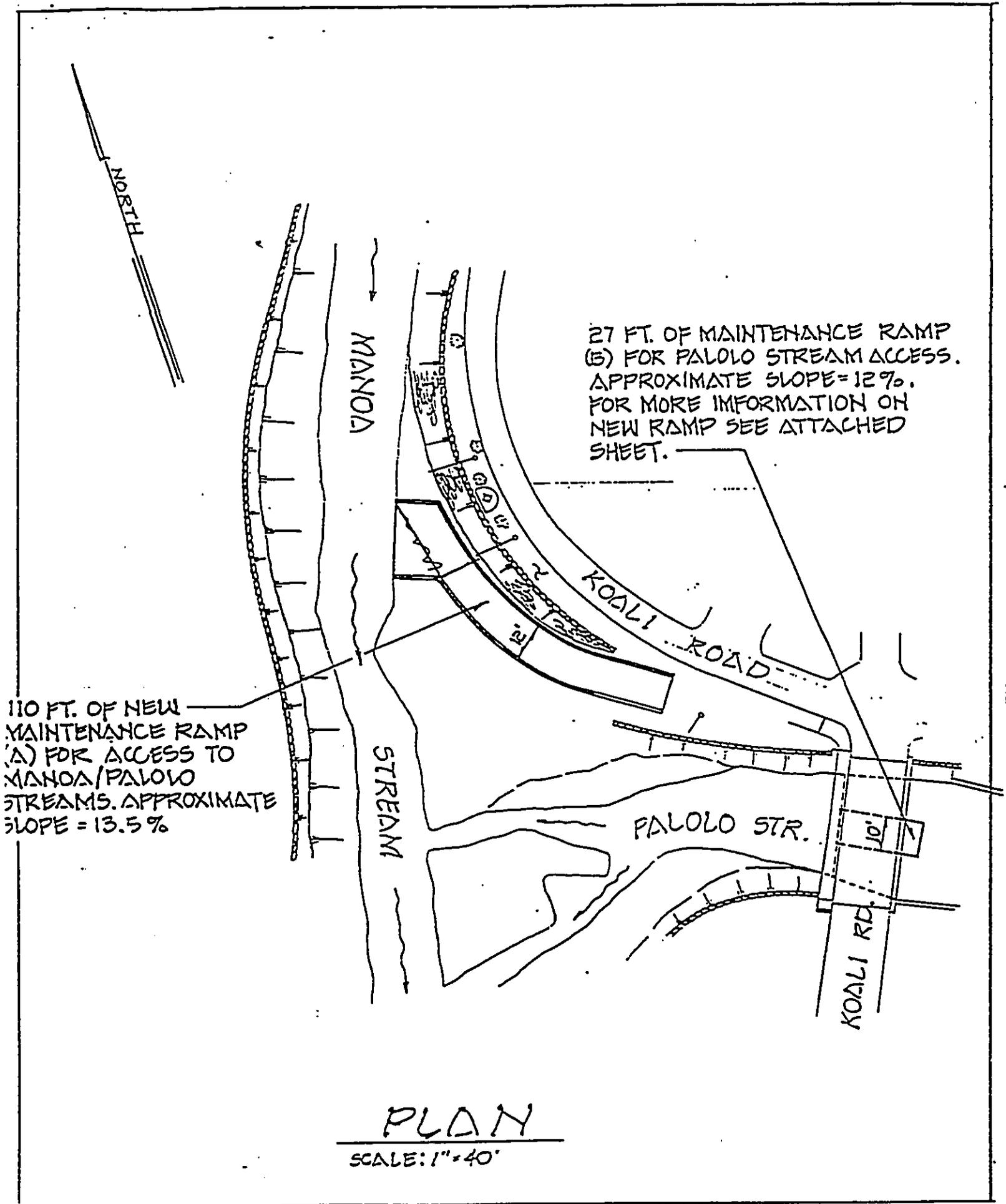
APPENDIX A
LOCATION MAP



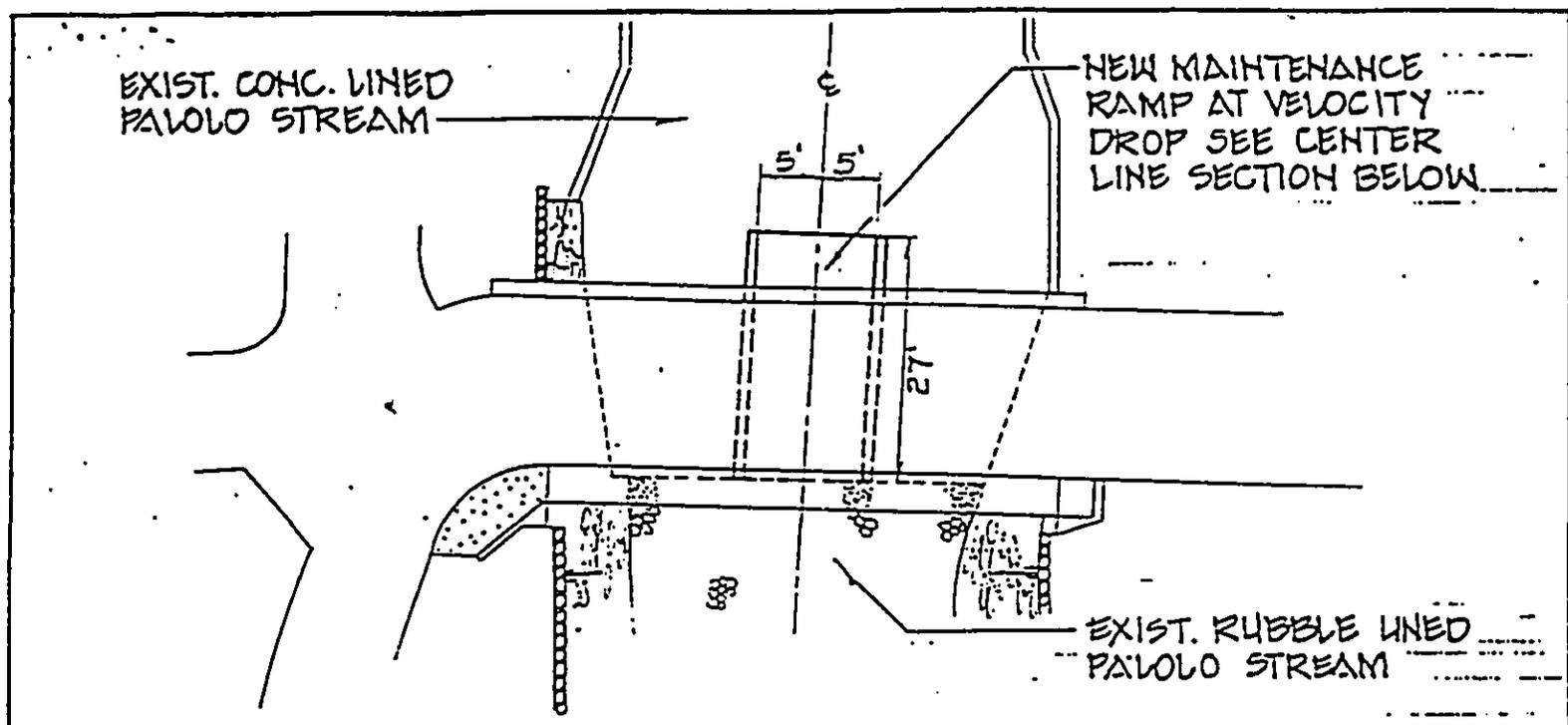
APPENDIX C

PLANS

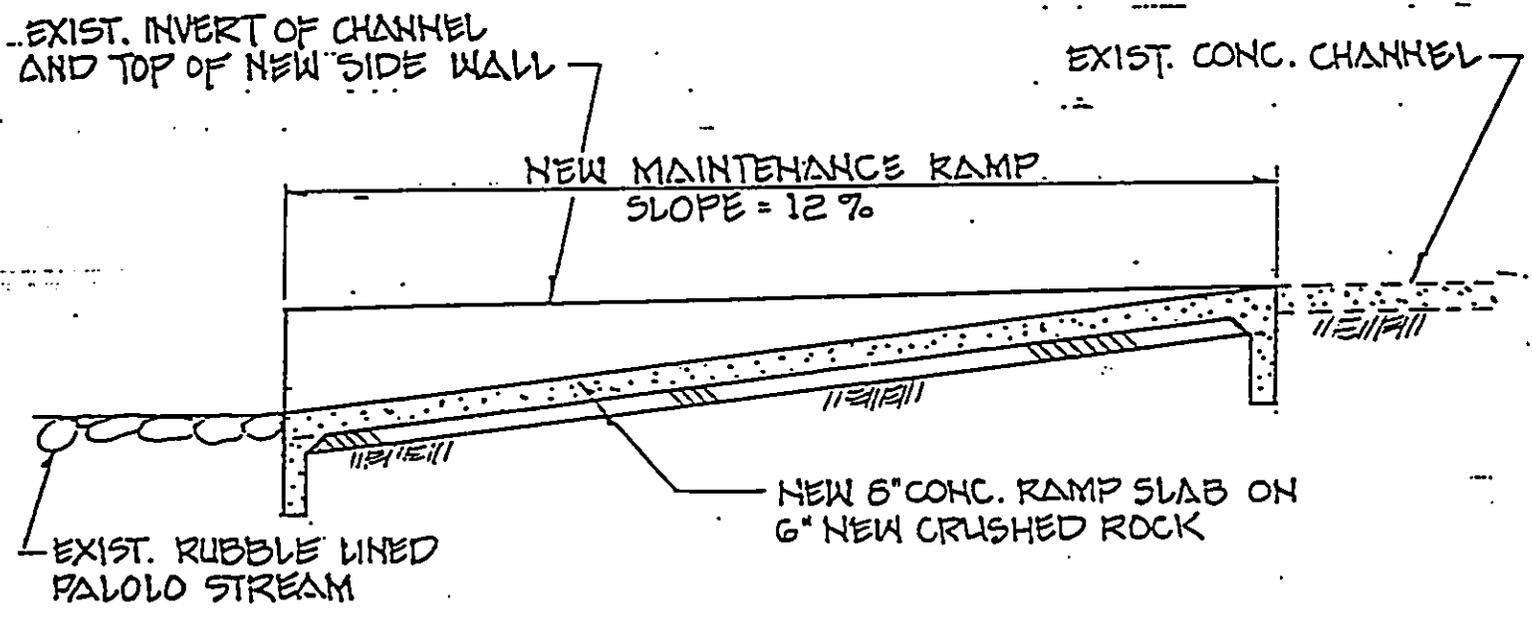
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PLAN
SCALE: 1" = 20'



SECTION
SCALE: 3/16" = 1'-0"

MAINTENANCE RAMP (B)

APPENDIX D
COMMENTS

DEPARTMENT OF GENERAL PLANNING
CITY AND COUNTY OF HONOLULU 91-3380
RECEIVED
DIV. OF ENGINEERING
650 SOUTH KING STREET
HONOLULU, HAWAII 96813
AUG 27 3 18 PM '91

FRANK F. FASI
MAYOR



Benjamin B. Lee
BENJAMIN B. LEE
CHIEF PLANNING OFFICER
ROLAND D. LIEBY, JR.
DEPUTY CHIEF PLANNING OFFICER

ET

August 22, 1991

MEMORANDUM

Sam
TO: SAM CALLEJO, DIRECTOR AND CHIEF ENGINEER
DEPARTMENT OF PUBLIC WORKS
FROM: BENJAMIN B. LEE, CHIEF PLANNING OFFICER
DEPARTMENT OF GENERAL PLANNING
SUBJECT: ENVIRONMENTAL ASSESSMENTS FOR STREAM MAINTENANCE
RAMPS FOR KAMOOALII, KANEOHE, KEAAHALA, MANOA-PALOLO
AND NIU STREAMS, OAHU, HAWAII

This is in response to your letters of July 31, 1991 requesting comment on the Environmental Assessments for stream maintenance ramps along:

- Kamooalii Stream Maintenance Ramp near the end of Apuakea Street
- Kaneohe Stream Maintenance Ramp at Kamehameha Highway
- Keaahala Stream Maintenance Ramp at Kamehameha Highway
- Manoa-Palolo Stream Maintenance Ramp at Koali Road
- Niu Stream Maintenance Ramp Velocity Drops

The anticipated impacts of each of the proposed actions, based on their respective environmental assessments (EA) are not significant enough to warrant preparation of an Environmental Impact Statement (EIS) as determined by the criteria of Section 11-200-12 of the EIS Rules. We, therefore, concur with your determination of a negative declaration for these projects.

Sam Callejo
August 22, 1991
Page 2

We suggest, however, that these projects include landscaping, such as hedges or vines, to soften the appearance of chain link fencing surrounding the improvements where they occur within residential or high visibility areas. In addition, the use of black-painted chain link fabric is also recommended to increase transparency of the fencing.

Thank you for the opportunity to comment on these EA's. Should you have any questions, please contact Eugene Takahashi at 527-6022.



BENJAMIN B. LEE
Chief Planning Officer

BBL:ft

DEPARTMENT OF LAND UTILIZATION
CITY AND COUNTY OF HONOLULU
650 SOUTH KING STREET
HONOLULU, HAWAII 96813 • (808) 523-4432

AUG 19 5 46 PM '91

FRANK F. FASI
MAYOR



91-3269
Emgr

DONALD A. CLEGG
DIRECTOR

LORETTA K.C. CHEE
DEPUTY DIRECTOR

LU 8/91-6456 (DJK)
LU 8/91-6457

August 19, 1991

MEMORANDUM

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

FROM: DONALD A. CLEGG, DIRECTOR

SUBJECT: SPECIAL MANAGEMENT AREA REVIEW

Tax Map Keys : 2-8-27 and 4-5-54
Type of Projects : Manoa-Palolo Stream Maintenance Ramp
and Halenani Place Drainage
Improvement Project

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The proposed projects on the referenced tax map keys have been reviewed. We find that they:

- Are not within the Special Management Area.
- Are within the Special Management Area, but are not defined as "development" and are therefore, exempt.

Should you have any questions, please contact the Environmental Affairs Branch at 523-4077.

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

DAC:dk

JOHN WAINEE
GOVERNOR OF HAWAII

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DIV. OF ENGINEERING
SEP 20 2 22 PM '91



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

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DEPT. OF PUBLIC WORKS
SEP 19 2 24 PM '91

91-3717
JOHN C. LEWIN, M.D.
DIRECTOR OF HEALTH

TO _____
6/10 DIR/DEP ^{MSK} 9/20/91
Eng
In reply, please refer to:
File: EMD/CWB

September 9, 1991

Ref Nos. 91-3-276X
91-3-278X
91-3-279X
91-3-280X
91-3-281X

C0903WW

Mr. Sam Callejo
Director and Chief Engineer
Department of Public Works
City and County of Honolulu
650 South King Street
Honolulu, Hawaii 96813

Dear Mr. Callejo:

Subject: City and County of Honolulu/Department of Public Works
Environmental Assessments for Maintenance Ramps at:
Kamooalii Stream (near end of Apuakea Street), Kaneohe, Oahu (TMK: 4-5-40)
Kaneohe Stream (at Kamehameha Highway), Kaneohe, Oahu (TMK: 4-5-18)
Keaahala Stream (at Kamehameha Highway), Kaneohe, Oahu (TMK: 4-5-15:021)
Niu Stream (at Velocity Drops), Honolulu, Oahu (TMK: 3-7-7:056)
Manoa-Palolo Stream (at Koali Road), Honolulu, Oahu (TMK: 2-8-27)

The Department of Health has reviewed the Environmental Assessments transmitted with your letter of July 31, 1991, for the stream maintenance ramps listed above and has the following comments:

1. The City and County of Honolulu should contact the U.S. Army Corps of Engineers (COE) to determine whether Section 404 permits are required for the construction of maintenance ramps in the Kamooalii, Kaneohe, and Manoa-Palolo Streams. In the event that a Section 404 permit is required for any of these projects, please contact the Clean Water Branch of the State Department of Health to apply for a Section 401 Water Quality Certification (WQC).
2. Due to existing stream improvements in the Keaahala and Niu Streams, construction of these maintenance ramps would be authorized under the General Permit by the U.S. Army COE and would not require a Section 401 WQC from the State Department of Health.

Mr. Sam Callejo
C0903WW
September 9, 1991
Page 2

If you have any questions on this matter, please contact Mr. Walter West of the Engineering Section, Clean Water Branch, at 543-8309.

Very truly yours,



JOHN C. LEWIN, M.D.
Director of Health

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OFFICE OF STATE PLANNING

Office of the Governor

STATE CAPITOL, HONOLULU, HAWAII 96813 TELEPHONE (808) 548-5883

Ref. No. P-2268

RECEIVED
DEPT. OF PUBLIC WORKS

91-3311

AUG 21 11 32 AM '91

TO _____

Eng

August 19, 1991

The Honorable Sam Callejo
Director and Chief Engineer
Department of Public Works
City and County of Honolulu
650 South King Street
Honolulu, Hawaii 96813

RECEIVED
DIV. OF ENGINEERING
AUG 22 2 59 PM '91

Dear Mr. Callejo:

Subject: Environmental Assessments for the Niu Stream Maintenance
Ramps at Velocity Drops and Manoa-Palolo Stream Maintenance
Ramp at Koali Road

We have reviewed the Environmental Assessments for the above-referenced projects and have the following comments. A Coastal Zone Management Program objective is to protect coastal ecosystems from disruption and minimize adverse impacts on all coastal ecosystems. We are concerned that the construction of the maintenance ramps at velocity drops within the streams may have adverse impacts on the water quality of the nearshore coastal waters. The assessment does not adequately describe the methods the contractors will be using to prevent pollution of the nearshore waters. Strong efforts should be made to prevent silt, construction debris, etc., from flowing downstream. The assessment should be expanded to thoroughly discuss additional stream diversion methods and erosion control measures.

Thank you for allowing us the opportunity of reviewing these assessments. If you have any questions, please contact the Coastal Zone Management Program at 548-3961.

Sincerely,

Harold S. Masumoto
Director

cc: Office of Environmental Quality Control

91-11-0215

August 29, 1991

Mr. Harold S. Masumoto, Director
Office of State Planning
Office of the Governor
State Capitol
415 South Beretania Street
Honolulu, Hawaii 96813

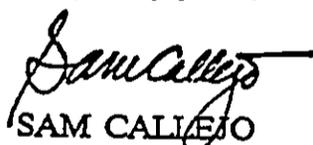
Dear Mr. Masumoto:

Subject: Your Letter of August 19, 1991 Regarding the Environmental Assessments for Stream Maintenance Ramps for Niu Stream and Manoa-Palolo Stream Near Koali Road. Ref. No. P-2268

We appreciate your comments and concerns regarding the proposed project. We will take all reasonable precautions to preclude adverse impacts on water quality.

Please contact Jolie Nishikawa at 523-4041 with any further questions or comments you may have.

Very truly yours,


SAM CALIEJO
Director and Chief Engineer

JN:RN:HK:tt



DEPARTMENT OF THE ARMY
U. S. ARMY ENGINEER DISTRICT HONOLULU
FT. SHAFTER, HAWAII 96854-5440

91-3084

RECEIVED
AUG 7 2 23 PM '91
C. W. A. H.

REPLY TO
ATTENTION OF
Operations Division

06 AUG 1991

ENG

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DIV. OF ENGINEERING
AUG 8 8 19 AM '91

Mr. Sam Callejo
Director and Chief Engineer
Department of Public Works
City and County of Honolulu
650 S. King Street
Honolulu, Hawaii 96813

Dear Mr. Callejo:

In response to your July 31, 1991 letters, we have reviewed the environmental assessments prepared for construction of maintenance ramps at Manoa-Palolo Streams, Kamooalii Stream, and Kaneohe Stream. The streams at the locations of the ramps are perennial and unimproved.

Department of the Army (DA) permits are required for all three projects, subject to processing as individual permits. DA permit applications must be submitted for the three projects. Your application should include complete project descriptions, drawings of the location, plan, and typical sections and environmental assessments for each project. The assessment should address the permanent conversion of portions of the unimproved, natural stream invert into concrete-lined sections. Finally, the quantities of material to be excavated and to be placed for the concrete sections should be included.

Since the actions are similar, but in different locations, you may want to submit a joint application for all three projects to be processed at the same time. File No. POS1-198 has been assigned to these projects. Please refer to this number in future correspondence. If you have any questions on the information required, please contact Ruby Mizue at 438-9258.

Sincerely,

Stanley T. Arakaki
Stanley T. Arakaki
Chief, Operations Division



ANDY MTRIKITANI
Councilmember

07-5277
CITY COUNCIL
CITY AND COUNTY OF HONOLULU
HONOLULU, HAWAII 96813 / TELEPHONE 523-4000

August 12, 1991

Ms. Jolie Nishikawa
Division of Engineering
Department of Public Works
City and County of Honolulu
Honolulu, Hawaii

Via: Mr. Jeremy Harris, Managing Director

Dear Ms. Nishikawa:

Re: Environmental Assessment for Manoa-Palolo
Stream Maintenance Ramp at Koali Road

Thank you for the copy of the Environmental Assessment (EA) for the maintenance ramp for the Manoa-Palolo Streams.

I understand that DPW is proposing to build these stream ramps to better maintain both the Manoa and Palolo streams. Further, I understand that the projected construction cost of the ramps is \$225,000 which has been allocated by the 1991-92 Fiscal Year Capital Improvement Budget. DPW estimates that this project will be completed within 90 days.

Accordingly, please answer the following questions regarding the EA.

- 1) What type of maintenance is required to maintain the streams?
- 2) What type of equipment is necessary for the proper maintenance of the stream?
- 3) What type of maintenance work does DPW plan to commence once the stream ramp is completed?
- 4) What type of maintenance work does DPW currently perform without the stream ramp?
- 5) Please explain how much of an alteration the stream channels will be changed.

Ms. Jolie Nishikawa
August 12, 1991
Page 2

- 6) The EA states the estimated sound levels (in dBs) that will be generated by the construction equipment. I note that the sound level will be 91dB at the nearest resident. Approximately how many days (within the 90-day period) can the community expect to be disturbed by the construction noise? What are the approximate hours of work of construction?
- 7) Because siltation is one of the components of non-point pollution of streams, what actions or procedures will DPW be using in mitigating the amount of siltation which may enter the stream during the construction of the stream ramps?
- 8) Which requirements (Federal, State, City) will be used in precluding the discharge of petrochemical products from the construction equipment? Please cite applicable law.

I look forward to receiving a response to my questions. I appreciate your cooperation in this matter. Please contact my office or Iris at extension 5599 if you have questions about my request.

Very truly yours,

Andy Mirikitani

ANDY MIRIKITANI
Councilmember
District V

AM:iic:mna
cc: Sam Callejo
Michael Street

RETURNS TO
DIVISION OF ENGINEERING

91-11-0209

August 26, 1991

Councilmember Andy Mirikitani
City Council
City and County of Honolulu
Honolulu, Hawaii 96813

RECEIVED
CITY CLERK
C.C.C. OF HONOLULU
08 27 10 58 AM '91

Dear Councilmember Mirikitani:

Subject: Our Letter of August 12, 1991 Regarding the Environmental Assessment for
Manoa-Palolo Stream Maintenance Ramp at Koali Road

Our response to your questions concerning the proposed ramps is as follows:

1. *What type of maintenance is required to maintain the streams?*
2. *What type of equipment is necessary for the proper maintenance of the stream?*
3. *What type of maintenance work does DPW plan to commence once the stream ramp is completed?*
4. *What type of maintenance work does DPW currently perform without the stream ramp?*

Maintenance of the stream is done to reduce the chances of flooding during the rainy season. Accordingly, proper maintenance of the stream involves clearing of the stream bed to remove such items as boulders and vegetation. This work is being done at present using a temporary ramp in the vicinity of the proposed access ramp. The temporary ramp must be removed after the stream cleaning work is completed. Large bulldozers, a rubber tire loader and a truck do the debris removal downstream to Date Street and upstream to Kanewai Park. The same type of work will continue to be done after the maintenance ramp is constructed. The difference will be that the access to the stream will be a permanent one, allowing quicker response when it is needed during emergencies (eliminating the delay for construction of the temporary ramp). In addition, construction of the permanent ramp will eliminate the cost of installing and removing the temporary ramp.

5. *Please explain how much of an alteration the stream channels will be changed?*

This question was not clearly stated. Appendix C of the environmental assessment shows the plan views of the proposed ramps with approximate dimensions. The access ramp is constructed within the embankment area and the velocity drop ramp is constructed by cutting back a section of the existing concrete invert. As mentioned in the environmental assessment, the cross section of the stream will not be reduced. The ramps themselves will not extend above the existing stream walls causing visual disharmony.

6. *The EA states the estimated sound levels (in dBs) that will be generated by the construction equipment. I note that the sound level will be 91 dB at the nearest resident. Approximately how many days (within the 90-day period) can the community expect to be disturbed by the construction noise? What are the approximate hours of work of construction?*

We estimate that the 91 dB sound level will occur during a maximum of 10 working days. The hours of work as allowed by the State Department of Health for construction work with a noise permit are from 7:00 a.m. to 6:00 p.m. except Sundays and Holidays.

7. *Because siltation is one of the components of non-point pollution of streams, what actions or procedures will DPW be using in mitigating the amount of siltation which may enter the stream during the construction of the stream ramps?*

The amount of siltation expected from the construction of the maintenance ramp is minimal. The procedures which may be used are detailed in the "Soil Erosion Standards and Guidelines" published in November 1975 by the Department of Public Works, City and County of Honolulu.

8. *Which requirements (Federal, State, City) will be used in precluding the discharge of petrochemical products from the construction equipment? Please site (cite) applicable law.*

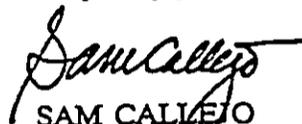
There is only one law of this type at present. It may be found in the Federal Register, 3/21/91, Part IV Environmental Protection Agency 40 CFR Part 122, "National Pollutant Discharge Elimination System Permit Application Regulations for Storm Water Discharge." This law comes into effect if the grading area is more than 5 acres. This does not apply to our project.

Our primary concern is that the marine environment not be disturbed. Since no petrochemicals will be used during construction (other than those contained in the Contractor's vehicles), we are simply requiring that all of the Contractor's vehicles are in proper working order and not leaking oil or gasoline.

Councilmember Andy Mirikitani
August 26, 1991
Page 3

Please contact Jolie Nishikawa at 523-4041 with any further questions or comments you may have in regard to this matter.

Very truly yours,


SAM CALIEJO
Director and Chief Engineer

JN:RN:HK:tt

bcc: Road Division
Drainage Section
Assistant Chief

APPROVED:

Jeremy Harris

JEREMY HARRIS
Managing Director