Salt-Lake Blvd, 36-Inch Transmission Main

#### BOARD OF WATER SUPPLY

CITY AND COUNTY OF HONOLULU 630 SOUTH BERETANIA STREET HONOLULU, HAWAII 96843 PHONE (808) 527-6180 FAX (808) 533-2714



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RECEIVE JONATHAN K. SHIMADA, PhD BARBARA KIM STANTON

\*98 APR 28 Pagade and Chief Engineer

GFC C QUALIF

Mr. Gary Gill, Director
Office of Environmental Quality Control
State of Hawaii
Leiopapa A. Kamehameha Building
235 South Beretania Street, Suite 702
Honolulu, Hawaii 96813

Dear Mr. Gill:

Subject:

Finding of No Significant Impact for the Board of Water Supply's Proposed Salt Lake

Boulevard 36-Inch Transmission Main from Foster Village to Aliamanu, Honolulu, Oahu, Hawaii,

TMK: 1-1-17, 18, 21 and 71

The Board of Water Supply has reviewed the comments received during the public comment period which began on December 8, 1997. We have determined that the environmental impacts of this project have been adequately addressed as discussed in the final environmental assessment (EA) and are therefore, issuing a finding of no significant impact. We request that the proposed well project be published as finding of no significant impact in the next Office of Environmental Quality Control (OEQC) Bulletin.

Attached are the completed OEQC bulletin publication form and four copies of the final EA for your review.

If you have any questions, please contact Barry Usagawa at 527-5235.

Very truly yours,

RAYMOND H. SATO

Manager and Chief Engineer

Attachments

cc: Sheldon Yamasato, Akinaka and Assoc., Inc.

# 1998-05-08-0A-FEA-Salt Lake Boulevard<sup>MAY</sup> 8 1998 36-Inch Transmission Main FILE COPY

#### FINAL ENVIRONMENTAL ASSESSMENT

For the

SALT LAKE BOULEVARD 36-INCH TRANSMISSION MAIN FOSTER VILLAGE TO ALIAMANU, PHASE II Salt Lake, Oahu, Hawaii

**MARCH 1998** 

Proposing Agency:

BOARD OF WATER SUPPLY City & County of Honolulu 630 South Beretania Street Honolulu, Hawaii 96843

Prepared By:

Akinaka & Associates, Ltd.
Consulting Engineers
250 N. Beretania Street, Suite 300
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#### **SECTION 1 - PROJECT DESCRIPTION**

#### 1.1 PURPOSE OF PROPOSED ACTION

The City & County of Honolulu, Board of Water Supply (BWS) is proposing to construct a 36-inch transmission main along Salt Lake Boulevard from Maluna Street to Ala Lilikoi, in the vicinity of TMK: 1-1-17, 18, 21, and 71, First District. The primary purpose of the proposed main is to provide additional transmission capacity from Pearl Harbor to Honolulu to accommodate the projected growth in Honolulu. The proposed main will also be an integral part of the Moanalua Subarea system.

The Moanalua Subarea includes Fort Shafter, Red Hill, Aliamanu, Salt Lake and the Honolulu International Airport. The Moanalua Subarea is presently serviced by nine (9) wells, six of which are private, and two (2) shafts, one of which is private. The Board of Water Supply has three (3) wells at its Moanalua Station and the Kalihi Shaft.

The existing BWS transmission system within Salt Lake Boulevard consists of one 24-inch and two 36-inch mains, one of which is only partially in place for the planned length. The proposed project will complete the 36-inch transmission system for the area. The parallel mains will ensure the continuity of service during repair activities and reduce system pressures and associated main breaks.

#### 1.2 LOCATION

The proposed water main will be routed through the Salt Lake district as shown in **EXHIBIT 1 - PROJECT VICINITY MAP** and **EXHIBIT 2 - PROJECT LOCATION MAP**. The entire alignment of the new main will be in the Salt Lake Boulevard right-of-way.

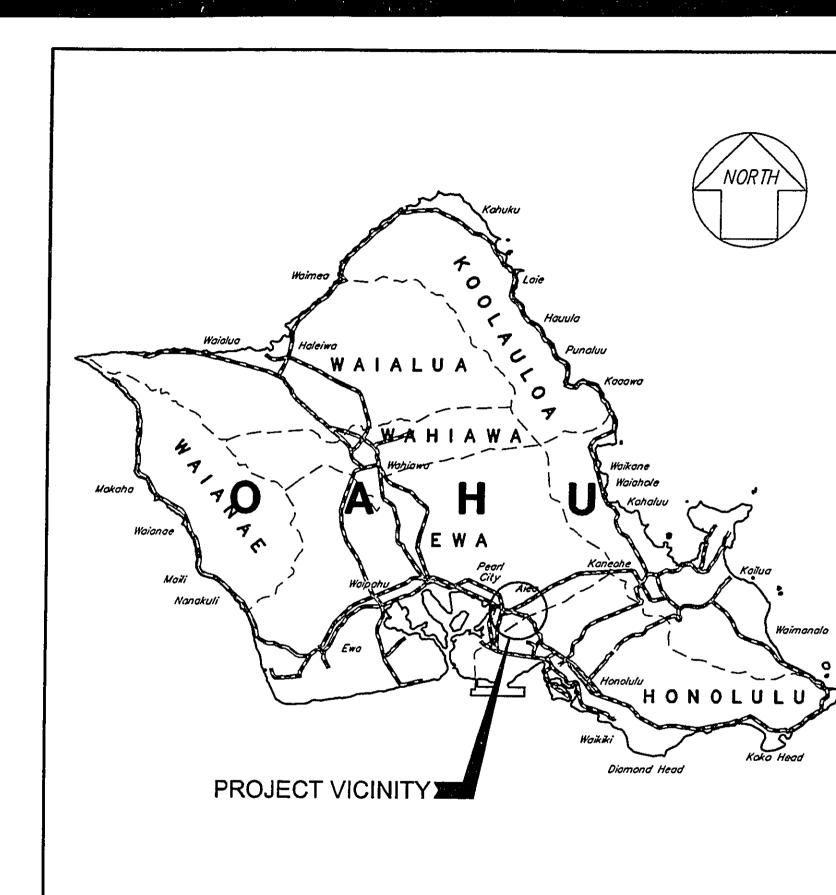
#### 1.3 DESCRIPTION OF THE PROPOSED ACTION

#### 1.3.1 PROPOSED ACTION

The construction of the new main will begin near the intersection of Maluna Street and Salt Lake Boulevard and extend about 4,800 linear feet easterly to near the intersection of Salt Lake Boulevard (SLB) and Ala Lilikoi (see **EXHIBIT 3 - PROPOSED SYSTEM SCHEMATIC LAYOUT**). The new main will connect to existing "stub-outs" at both ends of the project. The new main will be installed within the Salt Lake Boulevard right-ofway.

Construction will be accomplished in two separate sections as follows:

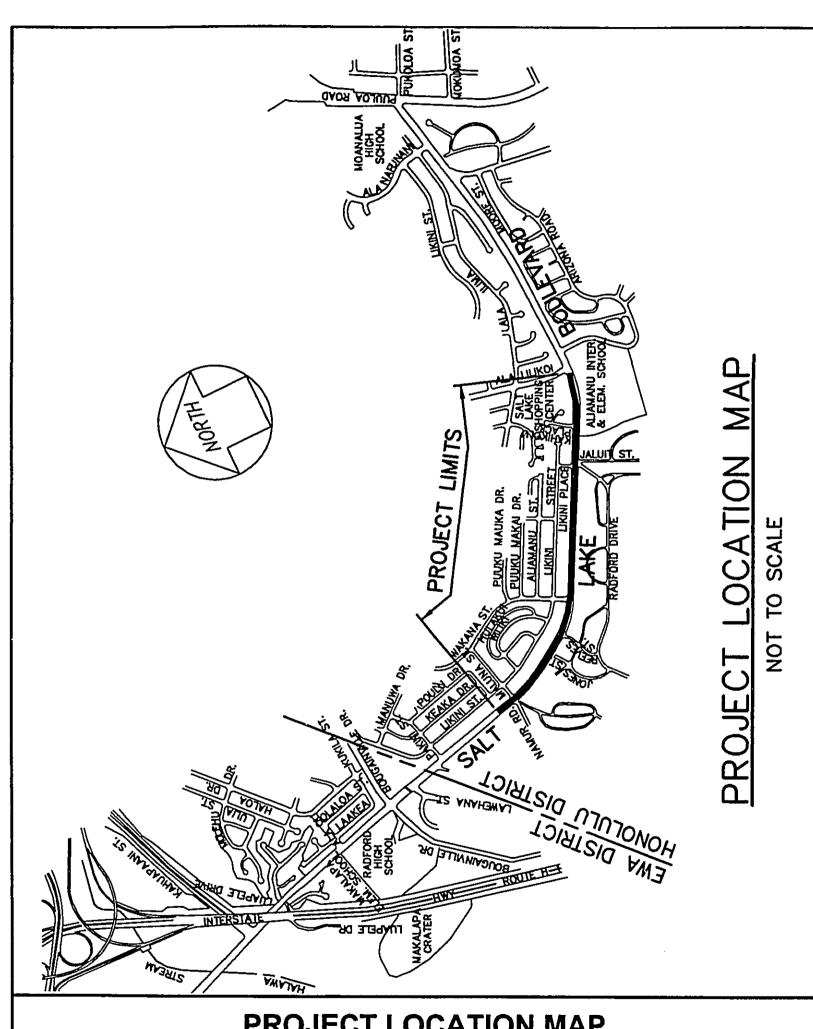
SECTION 1 - About 1,500 linear feet of the new 36-inch main will be constructed with the Department of Public Works' (DPW) project titled "Salt Lake Boulevard Widening, Bougainville Drive to Reeves Street" which is planned for construction in 1999.



4 0 4 8 12 SCALE IN MILES

### PROJECT VICINITY MAP

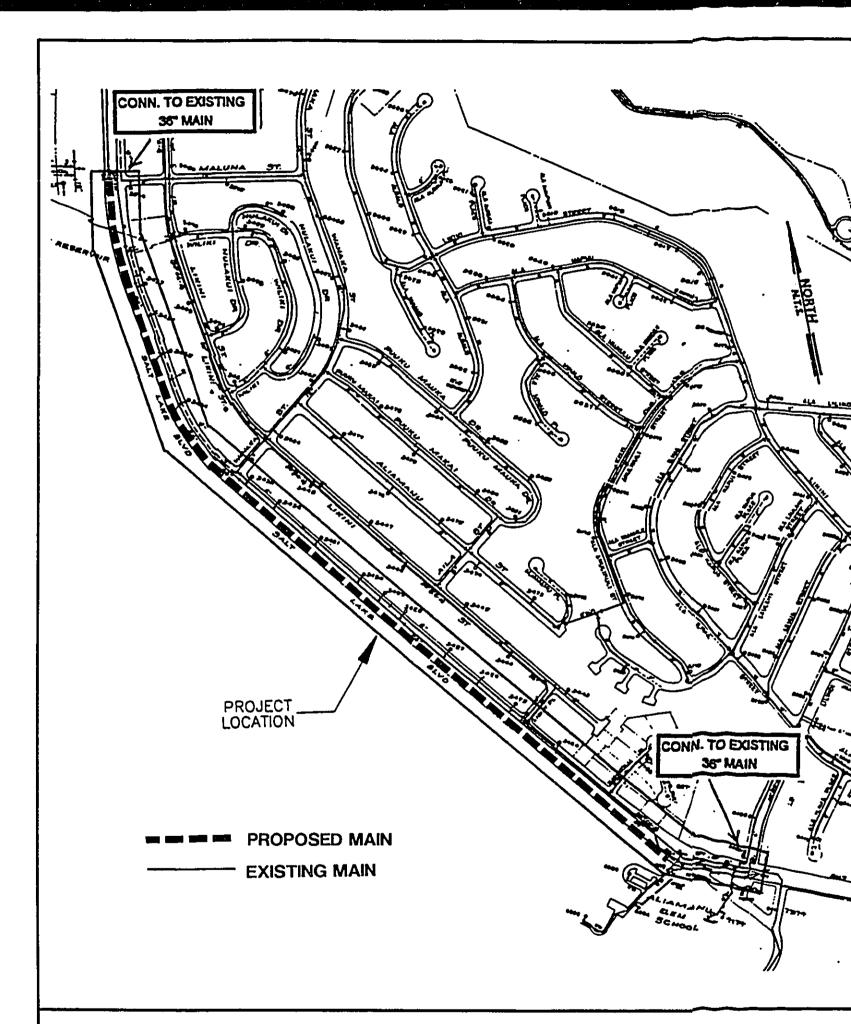
SALT LAKE BLVD. 36-INCH TRANSMISSION MAIN FOSTER VILLAGE TO ALIAMANU, PHASE II EXHIB 1



### PROJECT LOCATION MAP

SALT LAKE BLVD. 36-INCH TRANSMISSION MAIN FOSTER VILLAGE TO ALIAMANU, PHASE II

EXHIBIT 2



### PROPOSED SYSTEM SCHEMATIC LAYOUT

SALT LAKE BLVD. 36-INCH TRANSMISSION MAIN FOSTER VILLAGE TO ALIAMANU, PHASE II

EXHIBIT 3

- 2) SECTION 2 The remaining 3,300 linear feet of the new 36-inch main will be constructed in one of the following scenarios:
  - a) With the DPW's future SLB widening project from Reeves Street to Ala Lilikoi; or
  - b) As a separate BWS project.

The construction of the SECTION 1 will more than likely be completed prior to the start of construction for SECTION 2.

The selected scenario for the implementation of the remaining 3,300 linear feet of the new 36-inch main will depend on the timing of the DPW future Salt Lake Boulevard widening project. If schedules between the DPW and BWS projects cannot be coordinated, the second scenario described above will likely be selected.

#### 1.3.2 PERMITS, COORDINATION AND APPROVALS REQUIRED

Permits anticipated for the proposed action are as follows:

- Dept. of Public Works For work within road right of way and discharge of hydrotesting, disinfection and flushing water into the existing storm sewer system.
- State Dept. of Health National Pollutant Discharge Elimination System (NPDES) General Permit for disposal of hydrotesting, disinfection and flushing water into state waters.

Coordination of the construction plans will be required with the following entities:

- Dept. of Public Works, City & County of Honolulu
- Dept. of Wastewater Management, City & County of Honolulu
- o Dept. of Transportation Services, City & County of Honolulu
- o Fire Department, City & County of Honolulu
- o Commission on Persons with Disabilities
- o Hawaiian Electric Company
- o GTE Hawaiian Telephone Company
- o Oceanic Cable Television
- o AT&T
- o Chevron Oil Company
- o BHP, The Gas Company

Approval of the construction plans will be required by the following agencies:

- Dept. of Public Works, City & County of Honolulu
- Dept. of Wastewater Management, City & County of Honolulu
- o Dept. of Transportation Services, City & County of Honolulu
- o Fire Department, City & County of Honolulu

#### 1.3.3 CONSTRUCTION MATERIALS AND METHODS

The proposed water main will be bid with two alternate pipe material types as follows:

1) concrete cylinder pipe (CCP) or 2) poly-wrapped ductile iron pipe. The material type will be determined during the bid process, as proposed by the selected bidder.

Butterfly valves will be installed at intervals along the length of the water main to facilitate operation, maintenance, and repair. The main will be installed at varying depths to avoid existing utilities. A maximum depth of 8 feet will be maintained as much as possible. A typical trench section in accordance with the BWS design standards is shown in **EXHIBIT 4 - TYPICAL TRENCH & PAVEMENT RESTORATION DETAILS**.

If the new main is installed with the Salt Lake Boulevard widening project, the trenching and installation will be coordinated with the final paving to eliminate the need for pavement restoration.

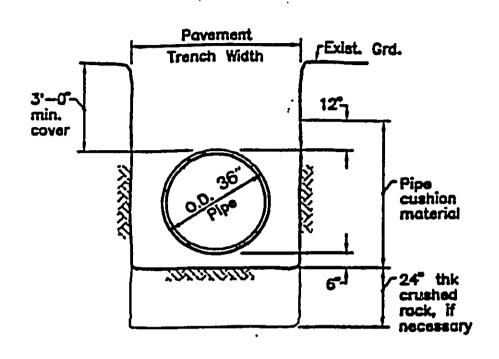
Installation procedures will include removal of pavement, trench excavation, bedding and pipe placement, backfilling & compaction, embankment work, and pavement restoration. Roadway trenches will be about 4'-6" wide. The length of open trench at any one time will be limited to facilitate traffic control during construction. The contractor shall also be responsible for the disposal of unsuitable or unused material. Excavated material will not be stockpiled along the side of the trench, but shall be removed from the site and later returned by the contractor during the backfilling activities. This will mitigate potential siltation problems generated by the project.

It is not anticipated that ground water will be encountered during excavation. However, if it becomes necessary to pump storm water out of any segment of trench, the water will be collected and properly disposed of to preclude the necessity of an NPDES permit.

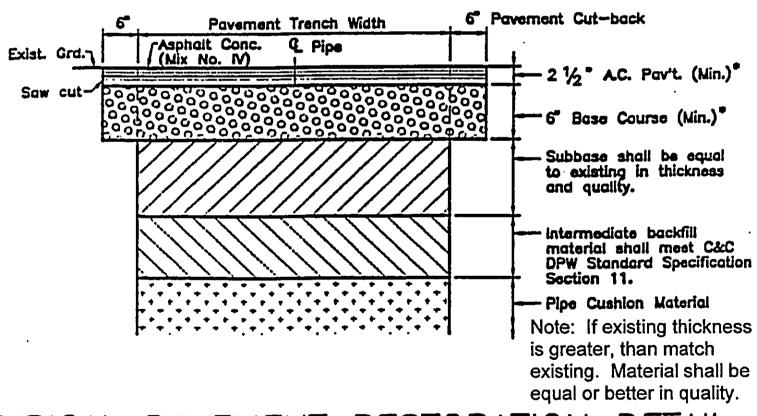
If any contaminated soil is encountered (by fuel oil, etc.) during the trench excavation, proper authorities and entities will be contacted for proper handling and disposal.

As the new transmission main will be incrementally installed, each increment will be hydrotested and disinfected. After the main is hydrostatically tested for leaks and approved, the pipe will then be disinfected with a chlorine solution, which will be disposed of in the partially dug trench for the subsequent increment. Hydrotesting water for the last increment will be collected and trucked away for disposal. This disposal procedure will eliminate the requirement of an NPDES permit for this project.

Traffic control and other activities concerning traffic impacts are discussed in **SECTION 2.13 - ROADWAYS AND TRAFFIC**.



## TYPICAL TRENCH DETAIL Not To Scole



### TYPICAL PAVEMENT RESTORATION DETAIL

### **TYPICAL TRENCH & PAVEMENT RESTORATION DETAILS**

SALT LAKE BLVD. 36-INCH TRANSMISSION MAIN FOSTER VILLAGE TO ALIAMANU, PHASE II EXHIB 4

#### 1.4 ESTIMATED CONSTRUCTION SCHEDULE AND COST

The entire 4,800 linear feet project is estimated at \$5.26 million and will be funded entirely by the Board of Water Supply, City & County of Honolulu.

The first segment from Maluna Street to Reeves Street is scheduled for construction in 1999, together with the Salt Lake Boulevard Widening project.

The implementation of the second and final segment from Reeves Street to Ala Lilikoi Street is not yet determined. However, it should immediately follow the completion of the first segment as a continuation, although basically independent of DPW's final widening schedule.

### SECTION 2 - AFFECTED ENVIRONMENT, POTENTIAL IMPACTS AND MITIGATIVE MEASURES

#### 2.1 EXISTING LAND USE

The area of the proposed project is classified as "Urban" by the State Land Use Commission, as shown in **EXHIBIT 5 - STATE LAND USE MAP**. The existing Salt Lake Boulevard 100-ft. right-of-way and designation for roadway use have been established on the Development Plans, which supplement the General Plan of the City and County of Honolulu. **EXHIBIT 6 - DEVELOPMENT PLAN** shows the majority of the abutting areas to be designated as Residential or Low Density Apartment (LDA). There are also isolated parcels designated as Public Facilities (PF), and one designated as Commercial (COML.).

The majority of the lands abutting the mauka side of Salt Lake Boulevard along the limits of the project are designated as Residential (R-5), as shown in **EXHIBIT 7 - CITY ZONING MAP**. The parcel at the mauka Salt Lake Boulevard-Ala Lilikoi Street intersection, where Salt Lake Shopping Center is located, is designated as Business (B-1). The makai side of Salt Lake Boulevard that is designated as Preservation-Military and Federal (F-1) is owned by the U.S. Navy. The area is used for their family housing facility.

#### Impact and Mitigative Measures

The installation of the proposed water main is not anticipated to hinder the existing land uses. Disruption to the residences will be temporary for the duration of the construction. The contractor will be required to maintain/provide ingress and egress to all existing driveways and public streets at all times.

#### 2.2 TOPOGRAPHY AND SOILS

The existing soils in the project area are classified as Makalapa clay, 2 - 12% slope (MdB, MdC), and Rock (rRK) by the U.S. Dept. of Agriculture, Soil Conservation Service (SCS) in "Soil Survey of Islands of Kauai, Oahu, Maui, Molokai and Lanai, State of Hawaii, August 1972" (see **EXHIBIT 8 - SOIL MAP**).

Makalapa clay is sticky and very plastic, with a high shrink-swell potential. The permeability of this soil is slow. Runoff is described as slow at flatter slopes, and slow to medium at steeper slopes. Thus, the erosion hazard is generally slight, however, it may reach moderate levels at steeper slopes.

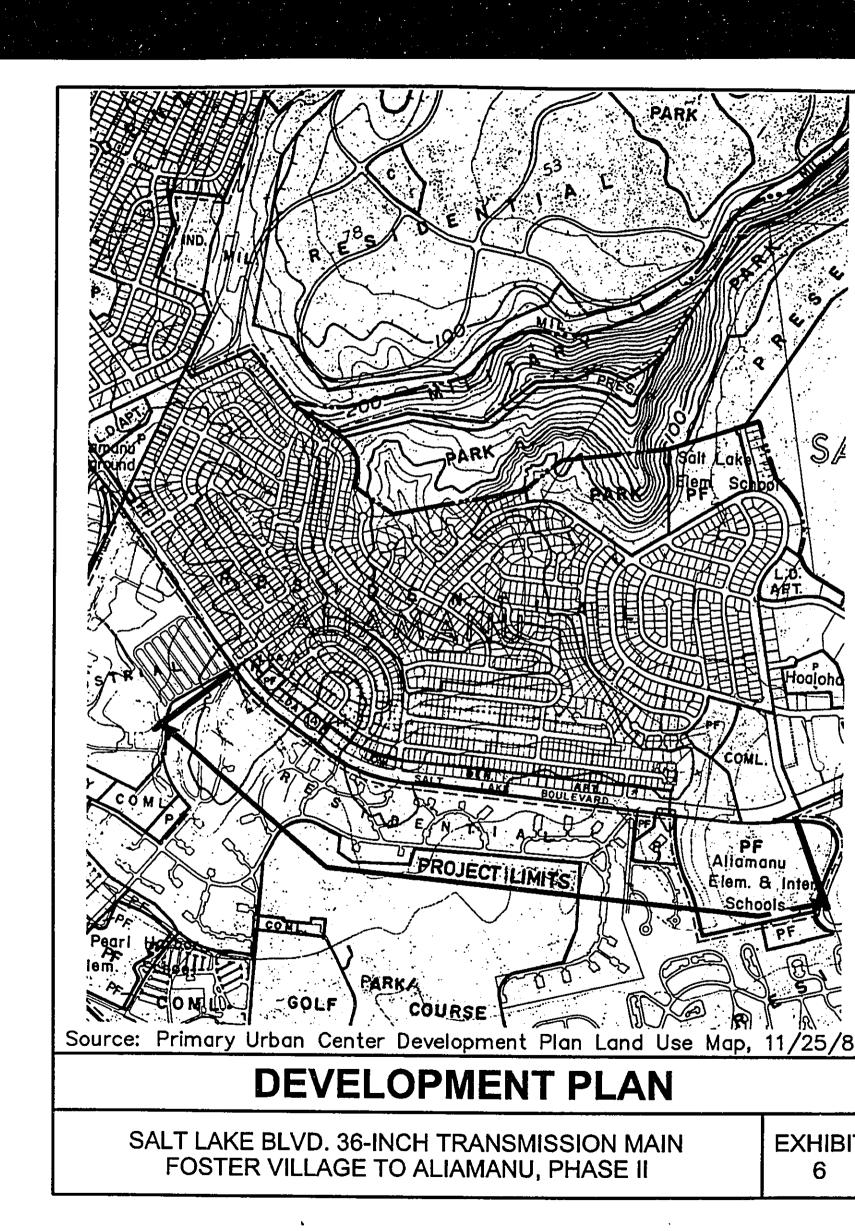
The soil classified as rock is made up of areas where 25 to 90 percent of the surface is covered by exposed rock, with 10 to 75 percent covered by shallow soils. The rock is typically basalt and andesite, while the associated soil is sticky and plastic.

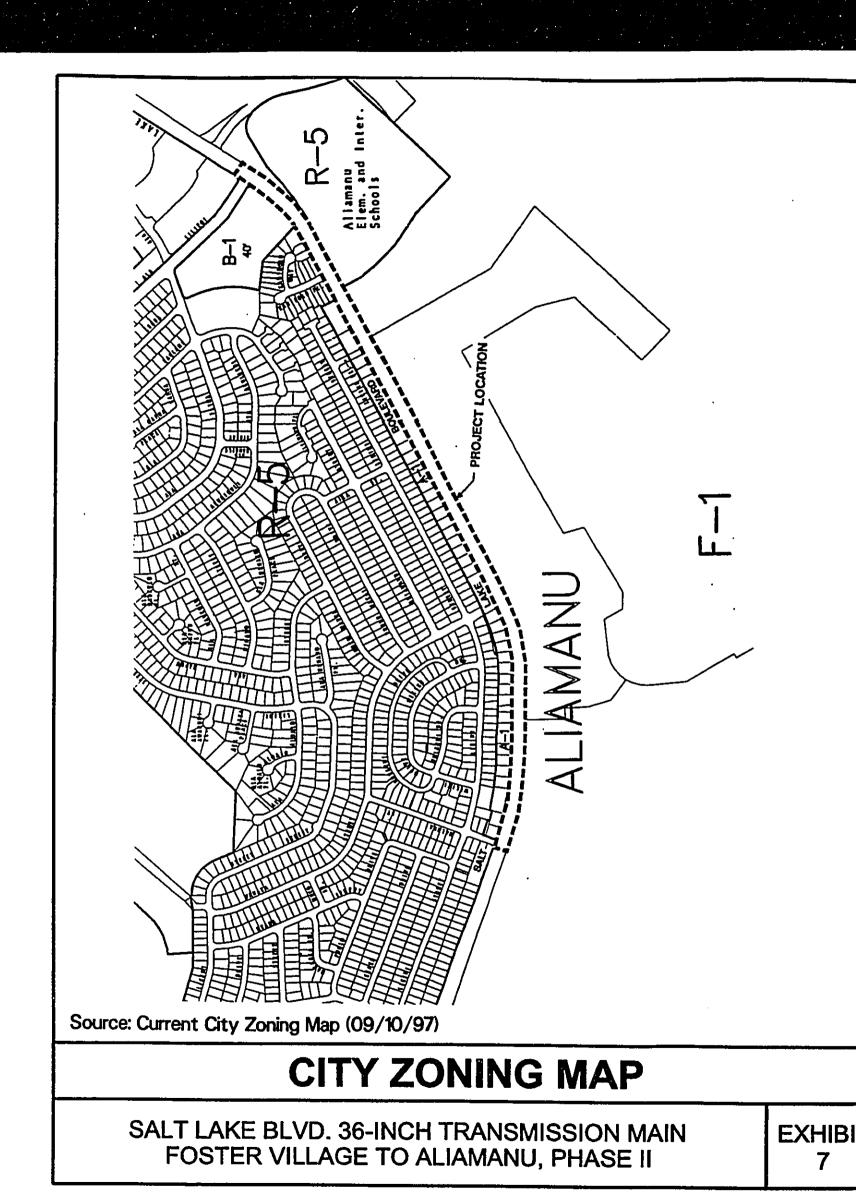


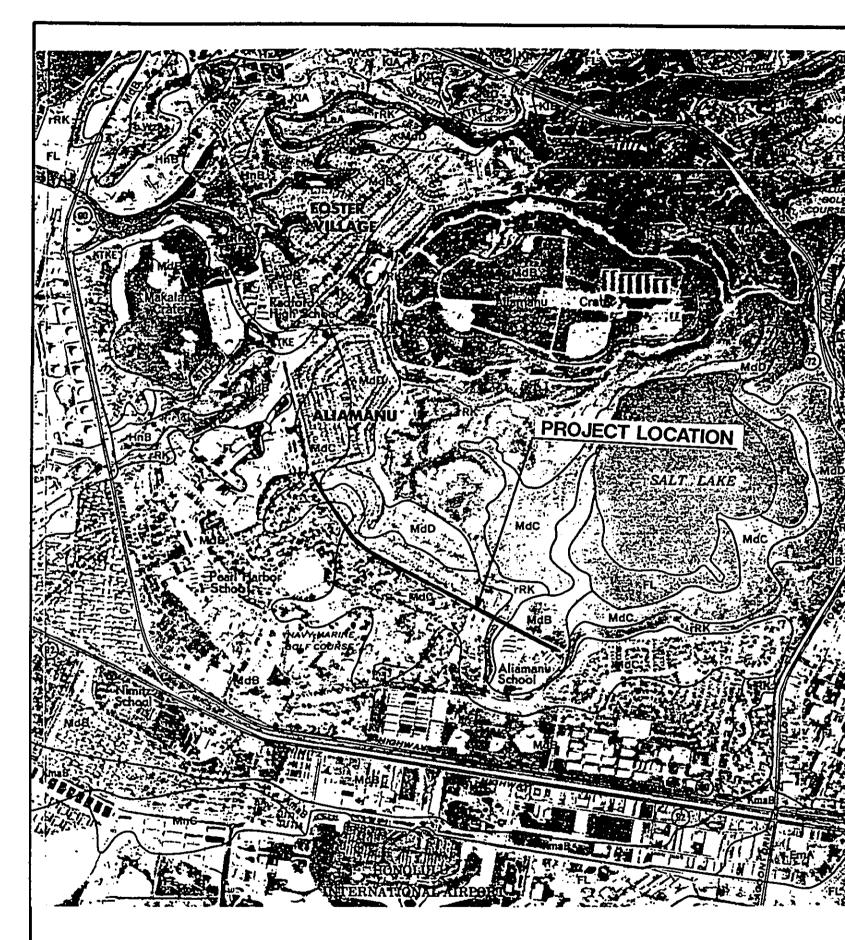
STATE LAND USE MAP

SALT LAKE BLVD. 36-INCH TRANSMISSION MAIN FOSTER VILLAGE TO ALIAMANU, PHASE II

EXHIB 5







Source: Soil Survey of Kauai, Oahu, Maui, Molokai and Lanai, State of Hawaii, U.S. Dept. of Agriculture SCS, August 1972

### **SOIL MAP**

SALT LAKE BLVD. 36-INCH TRANSMISSION MAIN FOSTER VILLAGE TO ALIAMANU, PHASE II EXHIBIT 8

#### Impact and Mitigative Measures

No negative impacts to the topography and soils are anticipated with the installation of the proposed 36-inch water main which will be located entirely within the Salt Lake Boulevard roadway.

Disruption of soils will occur during excavation and backfill activities. Backfill material may be imported if in situ material, such as clay, is unsuitable for backfill use. The imported material for replacement of unsuitable material as well as for embankment work shall not contain any stone, rock, or concrete larger than six inches in its greatest dimension. All work shall be done in accordance with BWS standards. The placement of embankment material and pipe cushion, and replacement of the existing soil with imported material is not expected to pose any adverse conditions. Soil disturbance will be temporary and existing surface conditions will be restored upon completion of construction.

#### 2.3 FLOOD ZONE DESIGNATION

The project area is designated Zone "D" according to the Flood Insurance Rate Maps (FIRM) prepared for the City and County of Honolulu by the Federal Insurance Administration. (See **EXHIBIT 9 - FLOOD INSURANCE RATE MAP**). A Zone "D" designation is described as "Areas of undetermined, but possible flooding."

#### 2.4 SURFACE WATER

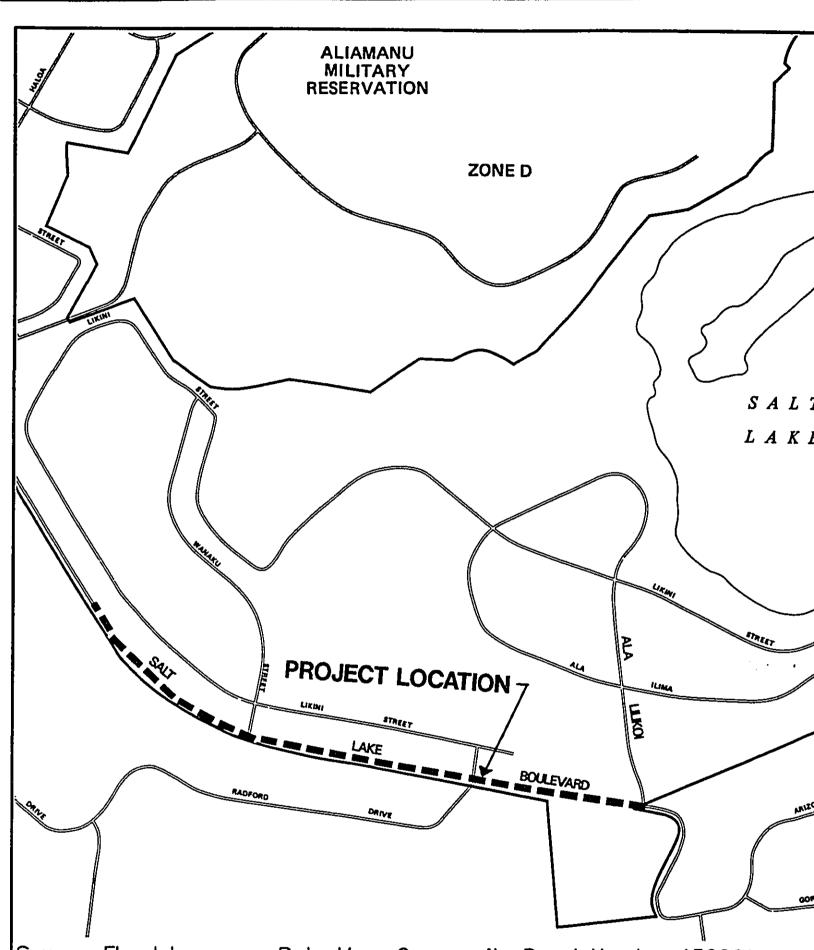
There is no surface water feature in the immediate area within the project limits.

#### 2.5 FLORA AND FAUNA

The vegetation at the project site are identified by the habitat classification system developed by the Jones and Stokes Association and field observation. The project area designation is Urban (Ur) which is used to describe developed areas, according to the final Environmental Impact Statement prepared for the <u>Development of Wells</u>, <u>Reservoirs</u>, <u>Transmission Lines and Appurtenances at Honolulu</u>, <u>Hawaii</u>, by Wilson Okamoto & Associates, dated 9/26/86. There are no rare or endangered wildlife species known to occur at the project sites. The Honolulu District has been extensively developed and because of this, the birds found in the area are those common to areas of urban development.

#### Impact and Mitigative Measures

Impacts to flora and fauna resources are considered negligible due to the fact that the entire Salt Lake Boulevard right of way width of 100 feet has been disturbed to such an extent as the discovery of endangered resources is highly unlikely.



Source: Flood Insurance Rate Map, Community Panel Number 150001 0115 Federal Emergency Management Agency, 9/28/90

### FLOOD INSURANCE RATE MAP

SALT LAKE BLVD. 36-INCH TRANSMISSION MAIN FOSTER VILLAGE TO ALIAMANU, PHASE II

EXHIBI 9

#### 2.6 NOISE

Ambient noise in the areas of the proposed construction are produced primarily by motor vehicular traffic. The Average Daily Traffic (ADT, 1996) for the stretch of Salt Lake Boulevard is 17,000.

Noise will be generated during construction (limited to daylight hours) of the project. Pneumatic equipment will be used along the entire length of the proposed alignment. No blasting shall be allowed.

#### **Impact and Mitigative Measures**

The noise contributed by construction of the project may be a nuisance, however, construction presence in the area is temporary and proper maintenance of construction machines and vehicles should help to reduce unnecessary increase in noise levels.

Construction activities shall comply with the provisions of the Chapter 11-46, Hawaii Administrative Rules, "Community Noise Control."

- The contractor shall obtain a noise permit since the noise level from the construction activities are expected to exceed the allowable levels of the regulation as stated in Section 11-46-6(a).
- Construction equipment and on-site vehicles requiring an exhaust of gas or air must be equipped with mufflers as stated in Section 11-46-6(b)(1)(A).
- The contractor shall comply with the conditional use of the permit as specified in the rules and conditions issued with the permit as stated in Section 11-46-7(d)(4).

#### 2.7 AIR QUALITY

Air quality in the proposed project area is mainly influenced by traffic emissions. During construction, air quality is expected to be degraded by exhaust fumes from construction equipment and automobiles congested in the area. Fugitive dust will also cause concern while trenching, backfilling, and embankment activities are performed.

#### **Impact and Mitigative Measures**

Since the duration of work in any one location is expected to be relatively short, impacts are expected to be negligible. Proper maintenance of construction equipment will help reduce emissions.

Fugitive dust will be controlled by frequent watering of exposed dirt surfaces and immediate paving or landscaping of completed areas of construction. Open

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body trucks will be covered at all times while transporting materials that may generate fugitive dust. Other types of dust controls will be implemented by the contractor as required to minimize air borne particles that may cause health problems and/or property damage. All measures utilized shall comply with the State Department of Health Administrative Rules, Title 11, Chapters 59 and 60 and all applicable City ordinances relating to excavation, embankment, and stockpiling procedures. Strict adherence to approved erosion and dust control plans is expected to minimize negative impacts.

#### 2.8 RECREATION

There are no recreational facilities in the project limits, however, motorists may use Salt Lake Boulevard to travel to the parks in the surrounding area. In addition, the annual "Aloha Fun Walk & Run" held on the Presidents' Day holiday, uses a portion (Bougainville Drive to Aloha Stadium) of Salt Lake Boulevard as a part of the route for the event. The construction in the project limits will probably have very little impact on or to that route.

#### Impact and Mitigative Measures

Park users who travel the project area during construction may experience inconveniences due to delays in travel time, construction related dust and noise. Public notices will be issued to inform the public of the construction period and as an advisory to select alternative routes.

The impact to the Aloha Fun Walk & Run event, although expected to be negligible, will be coordinated with the contractor. Measures to maintain the public safety, such as properly barricading open excavations, will be implemented for the duration of the event.

#### 2.9 HISTORIC SITES AND ARCHAEOLOGICAL RESOURCES

According to the Final Environmental Impact Statement for Salt Lake Boulevard, Puuloa Road to Halawa Heights Road Extension, approved 02/04/77, "The State Department of Land and Natural Resources (DLNR), Division of State Parks, has indicated that there are no known natural, historic, or archaeological sites with the project right of way."

#### **Impact and Mitigative Measures**

Should anything of potential significance, including human burials, be uncovered during the installation of the water main, all work in the area will cease. The State Historic Preservation Division, DLNR and the Oahu Island Burial Council, will then be contacted for further action.

#### 2.10 AESTHETIC VALUES

There are no apparent aesthetic values along the length of the proposed project. The existing Salt Lake Boulevard is a two lane facility, primarily abutted by residences. The land between the edge of the existing two lane asphalt concrete pavement and the right of way is occupied by embankments and shrubbery. In areas fronting private properties, the land is being used for parking of private vehicles.

The Salt Lake Boulevard Widening project by the Dept. of Public Works will enhance the aesthetic value of the corridor by eliminating the blight. Furthermore, it will also provide urban uniformity within the right of way with improvements such as concrete sidewalks and possible landscaping.

#### Impact and Mitigative Measures

It should be noted that the normal construction activities will cause temporary visual pollution which will cease upon completion of construction activities.

#### 2.11 ECONOMIC ACTIVITY

Although there are no businesses along Salt Lake Boulevard within the limits of the proposed project, commercial activity centers are located at each end of Salt Lake Boulevard as follows:

West (Ewa) side of project limits

- o Bougainville Commercial Center (COSTCO)
- o BHP Gas Express
- o Stadium Mall
- o Kmart
- o Aloha Stadium

East (Honolulu) side of project limits

- o Salt Lake Shopping Center
- o Mapunapuna Commercial Complex

#### Impact and Mitigative Measures

During construction, customers of businesses in the area may experience inconveniences due to delays in travel time, construction related dust and noise. Public notices will be issued to inform the public of the construction period and as an advisory to select alternative routes to the commercial centers.

#### 2.12 UTILITIES

The new 36-inch water main is proposed to be aligned in the existing roadway where other water, sewer, gas, fuel oil, drain, electrical, telephone, cable television, and communication lines exist. The underground utilities vary in size from small service conduits to large transmission mains. The telephone and electrical power lines

primarily exist overhead.

#### **Impact and Mitigative Measures**

The new 36-inch water main will be designed to minimize the impact to existing utilities. Coordination with all utility companies will be done to verify existing line locations and to prevent any possible conflicts.

#### 2.13 ROADWAYS AND TRAFFIC

The proposed water main will be aligned along Salt Lake Boulevard which is presently a two-lane asphalt concrete paved roadway. The Department of Public Works, City & County of Honolulu is presently in the process of widening Salt Lake Boulevard in various phases as follows:

1. Luapele Drive to Bougainville Drive - Construction 1996 to 1998

Bougainville Drive to Reeves Street - Design 1996 to 1998
 Construction - 1999 to 2001

3. Reeves Street to Ala Lilikoi - Design & Construction(Future - To be determined)

#### **Impact and Mitigative Measures**

Whether the 36-inch water main is constructed with the DPW Salt Lake Boulevard Widening project or not, the contractor is required to provide a minimum of two lanes of traffic (one in each direction) during construction. Temporary traffic congestion is anticipated during all phases of the construction. This is expected to cause residents, and users of the roadway to experience longer travel times. Mitigative measures include use of traffic controls during working hours, as well as adequate public notices to advise motorist to consider alternate routes and anticipate delays. Additionally, no construction will be allowed during morning and afternoon rush hours, when traffic is usually at its peak. An approved traffic control plan will be used to provide safe and efficient movement through the construction area. Construction warning signs, cones, barricades and police officers will be incorporated within this plan.

Also, to minimize the impact to traffic, BWS proposes to have the new water main installed in phases. Each phase will be completed prior to starting the next phase. The contractor will be required to take all necessary precautions to provide for the protection, convenience and safety of the public. During non-working hours, open trenches shall be covered with non-skid steel plates and all lanes shall be opened to traffic.

All work within the City & County right of way shall be accomplished within the hours of 8:30 a.m. to 3:30 p.m., Monday through Friday. If the contractor

proposes to work outside these hours, he will be required to obtain permission from the City & County Department of Transportation Services for purposes of coordination of the city's bus schedule.

#### 2.14 POLICE, FIRE AND EMERGENCY SERVICES

No police, fire, or emergency service stations are located within the project limits. However, Salt Lake Boulevard is the only collector street serving the numerous private and Navy residences in the area. Therefore, it is assumed that currently, police, fire, and emergency vehicles travel along the project area in order to provide timely service to the public. The project should not prevent the prompt arrival of these vehicles to any location.

#### Impact and Mitigative Measures

Police, fire and emergency services shall be notified of the construction schedule ahead of time so their drivers can plan alternative routes to avoid the areas under construction. Fire apparatus access shall be maintained throughout the duration of the project.

#### 2.15 PUBLIC SERVICES AND FACILITIES

Services such as sanitation/solid waste pick up and mail delivery require access to residences along the project area. Access to Aliamanu Elementary and Intermediate Schools is also located on Salt Lake Boulevard, near the project area.

#### Impact and Mitigative Measures

The Contractor will be required to provide access to all residences as well as the schools at all times. In addition, notices will be issued to inform the public of the construction period and as an advisory to select alternative routes. The construction activities will not prevent the performance of any service to the residences or prevent access to the schools.

#### **SECTION 3 - ALTERNATIVES TO THE PROPOSED ACTION**

#### 3.1 NO ACTION

The No Action alternative is not considered feasible because it would not meet the future needs as envisioned by the planned system improvements for the area. Installation of the new 36-inch water main will provide the needed additional capacity of the transmission system from Pearl Harbor to Honolulu. It will also ensure continuity of service during maintenance and repair of the existing 36-inch and 24-inch mains.

#### 3.2 ALTERNATIVE ALIGNMENTS

No other alignments have been considered as this is a part of BWS' planned improvements of the area. The proposed project will complete the 36-inch transmission system for the area.

#### 3.3 DELAYED ACTION

Delay of the project would initially have the same effect as the "No Action" alternative. Delaying construction until a later date may result in higher costs due to inflation and would not materially alter the environmental impacts.

#### **SECTION 4 - AGENCIES CONSULTED**

#### 4.1 PRE-ASSESSMENT AGENCIES CONSULTED FOR PREPARATION OF DEA

#### 4.1.1 Federal Government

Department of the Navy, Pearl Harbor Naval Base

#### 4.1.2 State Government

Dept. of Health, Environmental Management Division

Dept. of Land & Natural Resources, Land Division

Dept. of Land & Natural Resources, State Historic Preservation Division

Dept. of Transportation, Highways Division

Dept. of Accounting and General Services

Dept. of Education (Aliamanu School)

University of Hawaii, Environmental Center

#### 4.1.3 City & County Agencies

Dept. of Land Utilization

Dept. of Public Works

Dept. of Transportation Services

Dept. of Wastewater Management

Police Department

Fire Department

Civil Defense

Board of Water Supply

Neighborhood Board No. 18

City Councilmember Donna Kim

#### 4.2 DRAFT ENVIRONMENTAL ASSESSMENT CIRCULATION LIST

#### 4.2.1 Federal Government

Department of the Navy, Pearl Harbor Naval Base

#### 4.2.2 State Government

Dept. of Health, Environmental Management Division

Dept. of Land & Natural Resources, Land Division

Dept. of Land & Natural Resources, State Historic Preservation Division

Dept. of Transportation, Highways Division

Dept. of Accounting and General Services

Dept. of Education (Aliamanu School)

University of Hawaii, Environmental Center

Office of Environmental Quality Control

#### Office of Hawaiian Affairs

#### 4.2.3 City & County Agencies

Dept. of Land Utilization
Dept. of Public Works
Dept. of Transportation Services
Dept. of Wastewater Management
Planning Department
Police Department
Fire Department
Civil Defense
Board of Water Supply
Neighborhood Board No. 18
City Councilmember Donna Kim

#### 4.2.4 Other Agencies

Sierra Club

#### **SECTION 5 - DETERMINATION**

A draft assessment indicates that there will not be any significant negative effect on the environment by this project. This Final Environmental Assessment is therefore submitted with "A Finding of No Significant Impact" (FONSI).

#### **SECTION 6 - REFERENCES**

- 1. Final Environmental Impact Statement for Development of Wells, Reservoirs, Transmission Lines and Appurtenances, at Honolulu, Hawaii, by Wilson Okamoto & Associates, Inc. dated 9/26/86.
- 2. Final Environmental Impact Statement for Salt Lake Boulevard, Puuloa Road to Halawa Heights Road (Kahuapaani St.) Extension, City & County of Honolulu, by Federal Highways Administration, State Department of Transportation, and City & County Department of Public Works, dated 2/4/77.
- 3. Planning Study, Salt Lake Boulevard Improvements, Kahuapaani Street to Ala Lilikoi, by Akinaka & Associates, Ltd. dated January 1993.
- 4. Soil Survey of Kauai, Oahu, Maui, Molokai, and Lanai, State of Hawaii, by United States Department of Agriculture Soil Conservation Service in cooperation with the University of Hawaii Agricultural Experiment Station, August 1972.

#### APPENDIX A PRE-ASSESSMENT CONSULTATION COMMENTS

## SALT LAKE BOULEVARD 36-INCH TRANSMISSION MAIN FOSTER VILLAGE TO ALIAMANU, PHASE II

### DRAFT ENVIRONMENTAL ASSESSMENT PRE-ASSESSMENT CONSULTATION COMMENTS

11/10/07

				11/10/97
	REPLIED	REPLY		E.A.
ORGANIZATION	BY	DATE	COMMENTS	COPY
FEDERAL				
Dept. of Navy,				
Pearl Harbor Base				
STATE				
Dept. of Health	Letter	07/03/96	NPDES required?	
Dept. of Land & Natural Resources	Letter	05/29/96	No comments	Yes
Land Division				
Dept. of Land & Natural Resources	Letter	06/05/96	No known historic sites	
State Historic Preservation Div.				
Dept. of Transportation, Hwy. Div.	Letter	06/24/96	No effect on State highway facilities	
Dept. of Acct. & General Services	Letter	05/14/96	No comments	
Dept. of Education (Aliamanu Sch.)				
University of Hawaii,				
Environmental Center				
CITY & COUNTY				
Dept. of Land Utilization				
Dept. of Public Works	Letter	05/21/96	Proposed site is located in Flood Zone "D";	
			Implement BMPs to mitigate erosion; List	
			permits required for effluent discharges	
Dept. of Transportation Services	Letter	06/04/96	Submit construction plans, coordinate with	Yes
			other projects in the area	
Dept. of Wastewater Management	Letter	05/17/96	Note existing sewer lines, submit plans	
Police Department	Letter	05/23/96	No significant impact on HPD operations	
Fire Department	Letter	03/28/96	No adverse impact to HFD facilities/services	No
Civil Defense	Letter	05/23/96	No comments	
Board of Water Supply			·	
Neighborhood Board No. 18				
City Councilmember Donna Kim				
				-

BENJAMIN J. CAYETANO

GOVERNOR OF HAWAII



STATE OF HAWAII

**DEPARTMENT OF HEALTH** 

P.O. BOX 3378 HONOLULU, HAWAII 96801

July 3, 1996

LAWRENCE MIN

DIRECTOR OF HEAD

In reply, please rafe

96-078/epo

Mr. Barry Usagawa Planning Branch, Environmental Unit Board of Water Supply 630 South Beretania Street City & County of Honolulu Honolulu, Hawaii 96813 RECEIVED

JUL 9 1996

AKINAKA & ASSOCIATES, LTD.

Dear Mr. Usagawa:

Subject: Pre-Consultation

Salt Lake Boulevard: 36-Inch Transmission Main

Foster Village to Aliamanu, Phase II

Salt Lake, Oahu

A&A Job No. BWS96-01

Thank you for allowing us to review and comment on the subject project. We have the following comments to offer:

A National Pollutant Discharge Elimination System (NPDES) permit is required for any discharge to waters of the State, including the following:

- Storm water discharges relating to construction activities for projects equal to or greater than five acres;
- Storm water discharges from industrial activities;
- 3. Construction dewatering activities;
- 4. Cooling water discharges less than one million gallons;
- 5. Hydrotesting water.

Any person wishing to be covered by the NPDES permit for any of the above activities should file a Notice of Intent with the Department's Clean Water Branch at least 90 days prior to commencement of any discharge to waters of the State.

Mr. Barry Usagawa July 3, 1996 Page 2 96-078

Any questions regarding this matter should be directed to Mr. Denis Lau of the Clean Water Branch at 586-4309.

Sincerely,

BRUCE S. ANDERSON, Ph.D.

Deputy Director for Environmental Health

c: Akinaka & Associates, Ltd. (Mr. Sheldon Yamasato)

BE: JAMIN J CAYETANO GOVERNOR OF HAWAII



STATE OF HAWAII

DEPARTMENT OF LAND AND NATURAL RESOURCES
LAND DIVISION
ENGINEERING BRANCH
P O BOX 373
HONOLULU, HAWAII 96809

May 29, 1996

**RECEIVED** 

MICHAEL D WILSON, CI

ACUACULTURE DEVELOPMENT ACUATIC RESOURCES BOATING AND OCEAN RECREA CONSERVATION AND RESOUR ENFORCEMENT

ENGINEERING BRANCH PLANNING BRANCH TECHNICAL & SUPPORT BRAN

WATER RESOURCE MANAGEM

CONVEYANCES FORESTRY AND WILDLIFE HISTORIC PRESERVATION

LAND DIVISION

STATE PARKS

GILBERT COLOMA-

MAY 3 0 1996

AKINAKA & ASSOCIATES, LTD.

Mr. Barry Usagawa
Planning Branch, Environmental Unit
Board of Water Supply
630 S. Beretania Street
City & County of Honolulu
Honolulu, Hawaii 96813

Dear Mr. Usagawa:

Salt Lake Boulevard: 36-Inch Transmission Main Foster Village to Aliamanu, Phase II Salt Lake, Oahu, Hawaii A&A Job No. BWS96-01

This is in reference to Akinaka & Associates' letter of May 13, 1996. Thank you for the opportunity to review the subject project.

We have no comments at this time. Please submit a copy of the Draft Environmental Assessment when it becomes available.

Should you have any questions, please contact Mr. Andrew Monden of the Engineering Branch at 587-0227.

Circle M. Moder

for Chief Engineer

DI:ek

c: Akinaka & Associates

BENJAMIN J. CAYETANO GOVERNOR OF HAWAII



#### STATE OF HAWAII

#### DEPARTMENT OF LAND AND NATURAL RESOURCES

STATE HISTORIC PRESERVATION DIVISION 33 SOUTH KING STREET, 6TH FLOOR HONOLULU, HAWAII 96813

June 5, 1996

RECEIVED

JUN 8 1996

AKINAKA & ASSOCIATES, LTD.

Mr. Barry Usagawa
Planning Branch, Environmental Unit
Board of Water Supply
630 S. Beretania Street
City & County of Honolulu
Honolulu, Hawaii 96813

LOG NO: 17224 DOC NO: 9605EJ29

Dear Mr. Usagawa:

SUBJECT:

Historic Preservation Review Salt Lake Boulevard: 36 inch Transmission

Main, Foster Village to Aliamanu, Phase II

Moanalua, Kona, O'ahu

TMK: 1-1

Thank you for the opportunity to comment during the preparation of an Environmental Assessment for the 36-inch Transmission Main from Foster Village to Aliamanu, Phase II along Salt Lake Boulevard. A review of our records shows that there are no known historic sites at the project location. The area has been extensively modified and developed making it unlikely that historic sites remain. Therefore, we believe that this project will have "no effect" on historic sites.

If you have any questions please call Elaine Jourdane at 587-0015.

Aloha,

Don Hibbard, Administrator
 Historic Preservation Division

EJ:jk

✓ cc: Mr. Sheldon Yamasato, Akinaka & Associates, 250 N. Beretania St. Suite 300, Honolulu, Hawaii 96817

AQUACULTURE DEVELOPMENT

MICHAEL D. WILSON, CHAPPERSON

BOARD OF LAND AND NATURAL RESOURCES

DEPUTY GILBERT COLOMA-AGARAN

DIVIRONMENTAL AFFAIRS
CONSERVATION AND
RESOURCES ENFORCEMENT
CONVEYANCES
FORESTRY AND WILDUFE
HISTORIC PRESERVATION

DIVISION
LAND MANAGEMENT
STATE PARKS
WATER AND LAND DEVELOPMENT

BENJAMIN J. CAYETANO GOVERNOR



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
869 PUNCHBOWL STREET
HONOLULU, HAWAII 96813-5097
June 24, 1996

KAZU HAYASHIDA DIRECTOR

DEPUTY DIRECTORS
JERRY M. MATSUDA
GLENN M. OKIMOTO

IN REPLY REFER TO

HWY-PS 2.0791

Mr. Barry Usagawa Planning Branch, Environmental Unit Board of Water Supply 630 South Beretania Street City and County of Honolulu Honolulu, Hawaii 96813 RECEIVED
JUN 25 1996

AXINAXA & ASSOCIATES, LTD.

Dear Mr. Usagawa:

Subject: Preparation of Environmental Assessment, 36-Inch

Transmission Main, Salt Lake Boulevard, Foster Village

to Aliamanu, Phase II, Salt Lake, Oahu

Thank you for consulting with the Department of Transportation, Highways Division, concerning the proposed transmission main.

The proposed project will not affect our State highway facilities. Salt Lake Boulevard is under the City's jurisdiction.

Very truly yours,

HUGH Y. ONO Administrator

Highways Division

c: Akinaka & Associates, Ltd. Attn: Mr. Sheldon Yamasato

(P) 13:

MAY 1 4 1996

RECEIVED

MAY 1 6 1996

Mr. Barry Usagawa Planning Branch, Environmental Unit Board of Water Supply City & County of Honolulu 630 S. Beretania Street Honolulu, Hawaii 96813

AKINAKA & ASSOCIATES, LTD.

Dear Mr. Usagawa:

Subject: Salt Lake Boulevard: 36-Inch Transmission Main

Salt Lake, Oahu, Hawaii

Pre-Consultation Environmental Assessment

Thank you for the opportunity to provide preliminary comments on the subject project. We have no comments to offer at this time.

If there are any questions, please have your staff contact Mr. Ralph Yukumoto of the Planning Branch at 586-0488.

Very truly yours,

GORDON MATSUOKA

State Public Work Engineer

RY:jy

cc: Akinaka & Associates, Ltd.

COCKTY

DEPARTMENT OF PUBLIC WORKS

961502

CITY AND COUNTY OF HONOLULU

650 SOUTH KING STREET, 11TH FLOOR • HONOLULU, HAWAII 96813 PHONE: (808) 523-4341 • FAX: (808) 527-5857

lar 21 2 24 1 1 53

PE

JEREMY HARRIS



May 21, 1996

KENNETH E. SPRAGUE
DIRECTOR AND CHIEF ENGINEER

DARWIN J. HAMAMOTO

ENV 96-112

### MEMORANDUM:

TO:

BARRY USAGAWA

PLANNING BRANCH, ENVIRONMENTAL UNIT

BOARD OF WATER SUPPLY

FROM:

LIVKENNETH E. SPRAGUE

DIRECTOR AND CHIEF ENGINEER

Auth

SUBJECT:

DRAFT ENVIRONMENTAL ASSESSMENT (DEA)

SALT LAKE BOULEVARD 36-INCH TRANSMISSION MAIN

FOSTER VILLAGE TO ALIAMANU, PHASE II

TMK: 1-1-17: 18, 21 & 71

We have reviewed the subject DEA and have the following comments:

- 1. The proposed project site is located in Flood Zone "D".
- The DEA should address implementation of best management practices (BMPs) during construction to mitigate erosion.
- 3. The DEA should also list permits required for effluent discharges.

Should you have any questions, please contact Alex Ho, Environmental Engineer, at 523-4150.



DEPARTMENT OF TRANSPORTATION SERVICES

### CITY AND COUNTY OF HONOLULU

PACIFIC PARK PLAZA
711 KAPIOLANI BOULEVARD, SUITE 1200
HONOLULU, HAWAII 96813

JEREMY HARRIS



June 4, 1996

RECEIVED

JUN 5 - 1998

CHARLES O. SWANS

AKRIANA & ASSOCIATES, 170.

5/96-2177R

### **MEMORANDUM**

TO:

BARRY USAGAWA

PLANNING BRANCH, ENVIRONMENTAL UNIT

BOARD OF WATER SUPPLY

FROM:

CHARLES O. SWANSON, DIRECTOR

SUBJECT:

SALT LAKE BOULEVARD 36-INCH TRANSMISSION MAIN

FOSTER VILLAGE TO ALIAMANU, PHASE III

In response to the May 13, 1996 letter from Akinaka & Associates, we reviewed the project information provided and have the following comments to offer:

- 1. Construction plans, including a traffic control plan, for all work within the City's right-of-way should be submitted to this department for review and approval.
- 2. The scheduling of this project should be coordinated with other agencies to avoid having roadwork occur on streets in close proximity at the same time.

We look forward to receiving a copy of the draft environmental assessment for our review.

Should you have any questions regarding these comments, please contact Faith Miyamoto of the Transportation Systems Planning Division at Local 6976.

CHARLES O. SWAMSON

& Jamanas

cc: Sheldon Yamasato
Akinaka & Associates

DEPARTMENT OF WASTEWATER MANAGEMENT

### CITY AND COUNTY OF HONOLULU

650 SOUTH KING STREET HONOLULU, HAWAII 96813



RECEIVED NAY 1 8 1996

AXIHAKA & ASSOCIATES, LTD.

FELIX B. LIMTIACO DIRECTOR

CHERYL K. OKUMA-SEP.

In reply refer to: WCC 96-57

May 17, 1996

Mr. Barry Usagawa
Planning Branch, Environmental Unit
Board of Water Supply
630 South Beretania Street
City and County of Honolulu
Honolulu, Hawaii 96813

Dear Mr. Usagawa:

EREMY HARRIS

MAYOR

Subject: Consultation of Preparation of Environmental Assessment

Foster Village to Aliamanu, Phase II

Salt Lake Boulevard: BWS 36-inch Transmission Main

TMK: 1-1-17, 18, 21, 71

In response to your letter of May 13, 1996, we have no objection to the construction of the proposed 36-inch water transmission main along Salt Lake Boulevard between Maluna Street and Ala Lilikoi Street. However, please note that there are existing sewer lines within Salt Lake Boulevard. Please submit construction plans for this project to us for our review and approval.

If you have any questions, please contact Ms. Tessa Yuen of the Service Control Branch at 523-4956.

Very truly yours,

FELIX B. LIMTIACO

Director

cc: Mr. Sheldon T. Yamasato

# 0000 0025 267<u>0</u>

POLICE DEPARTMENT

### CITY AND COUNTY OF HONOLULU

801 SOUTH BERETANIA STREET HONOLULU, HAWAII 95813 - AREA CODE (808) 529-3111

JEREMY HARRIS MAYOR



MICHAEL S. NAKAMU CHIEF

LEE DONOHUE DEPUTY CHIEFS

OUR REFERENCE BS-DL

May 23, 1996

RECEIVED

MAY 2 5 1996

AKINAKA & ASSOCIATES, LTD.

TO:

BARRY A. USAGAWA, LONG RANGE PLANNING SECTION

BOARD OF WATER SUPPLY

FROM:

MICHAEL S. NAKAMURA, CHIEF OF POLICE

HONOLULU POLICE DEPARTMENT

SUBJECT:

CONSULTATION OF PREPARATION OF ENVIRONMENTAL ASSESSMENT

SALT LAKE BOULEVARD: 36-INCH TRANSMISSION MAIN

FOSTER VILLAGE TO ALIAMANU, PHASE II

SALT LAKE, OAHU, HAWAII

A&A JOB NO. BWS96-01

This is in response to Mr. Sheldon T. Yamasato's letter of May 13, 1996, requesting comments concerning the subject project.

This project should have no significant impact on the operations of the Honolulu Police Department.

Thank you for the opportunity to comment.

MICHAEL S. NAKAMURA Chief of Police

By

EUGENE UEMURA, Assistant Chief

Administrative Bureau

cc: Mr. Sheldon T. Yamasato Akinaka & Associates, Ltd. FIRE DEPARTMENT

### CITY AND COUNTY OF HONOLULU

3375 KOAPAKA STREET, SUITE H425 HONOLULU, HAWAII 96819-1869

JEREMY HARRIS



ANTHONY J. LOPEZ. . FIRE CHIEF

ATTILIO K. LEONARI

March 28, 1996

**RECEIVED** 

MAY 3 1 1996

AKINAKA & ASSOCIATES, LTD.

TO:

MR. BARRY USAGAWA

PLANNING BRANCH, ENVIRONMENTAL UNIT

BOARD OF WATER SUPPLY

FROM:

ANTHONY J. LOPEZ, JR., FIRE CHIEF

SUBJECT:

SALT LAKE BOULEVARD: 36-INCH TRANSMISSION MAIN

FOSTER VILLAGE TO ALIAMANU, PHASE II

SALT LAKE, OAHU, HAWAII A & A JOB NO. BWS96-01

We have reviewed the subject material provided and foresee no adverse impact in Fire Department facilities or services. Access for fire apparatus shall be maintained.

A copy of the draft Environmental Assessment report is not necessary.

Should you have any questions, please call Assistant Chief Arthur Ugalde of our Administrative Services Bureau at 831-7774.

ANTHONY J. LOPEZ, JR Fire Chief

AJL/PHG:ma

cc: Akinaka & Associates (Sheldon Yamasato)

OAHU CIVIL DEFENSE AGENCY

### CITY AND COUNTY OF HONOLULU

650 SOUTH KING STREET HONOLULU, HAWAII 96813 PHONE: 523-4121

JEREMY MARRIS MAYOR



RECEIVED

JOSEPH D. REI

MAY 2 4 1996

May 23, 1996

AKINAKA & ASSOCIATES, LTD.

MEMO TO:

BARY USAGAWA, PLANNING BRANCH, ENVIRONMENTAL UNIT

**BOARD OF WATER SUPPLY** 

FROM:

JOSEPH D. REED, ADMINISTRATOR

SUBJECT:

CONSULTATION OF PREPARATION OF ENVIRONMENTAL ASSESSMENT

Thank you for the opportunity to provide input on the Salt Lake Boulevard 36 inch Transmission Main Project, A&A Job No. BWS 96-01

.We have no comments and do not have a requirement for the draft Environmental Assessment for the project at this time.

Thanks again for including us in development of this project.

cc: Akinaka & Associates Ltd

APPENDIX B

DRAFT ENVIRONMENTAL ASSESSMENT COMMENTS AND RESPONSES

# DRAFT ENVIRONMENTAL ASSESSMENT REVIEW COMMENTS - SUMMARY

# SALT LAKE BOULEVARD 36-INCH TRANSMISSION MAIN FOSTER VILLAGE TO ALIAMANU, PHASE II

	REPLY		
ORGANIZATION	DATE	COMMENTS	RESPONSE
Federal Government			# A 1 1 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Dept. of the Navy	03/04/98	Keep the Navy utility corridor clear & undisturbed during construction	
State Government			
Dept. of Health	02/26/98	"Community Noise Control." Chapter 11-46 is now applied statewide.	Will revise Final EA accordingly.
Dept. of Land & Natural Resources	01/22/98	No objections	
DLNR, State Historic Preservation Division	01/30/98	No effect on historic sites	No action required
Dept. of Transportation, Highways Division	01/27/98	" will not adversely impact our State highway facilities,"	No action required
Dept. of Accounting & General Services	02/10/98	No comments to offer	No action required
Office of Environmental Quality Control	01/07/98	Please discuss the existing water system in the area and the cumulative	Will revise Final EA accordingly.
		effects (local, regional and island-wide land use, population, etc.) of the	
		proposed improvements	
Office of Hawaiian Affairs	02/20/98	"concurs with the mitigative measures for archaeological resources	Will revise Final EA accordingly.
		setforth in the DEA, but feels that these measures should be amended to	047724
		include the immediate notification of the Oahu Island Burial Council in the	. chang
		event human remains are inadvertently unearthed."	
City & County Agencies			
Dept. of Land Utilization	01/28/98	The project is not within the Special Management Area	No action required
Dept. of Public Works	02/02/98	Revise dates cited for the Salt Lake Boulevard Widening projects	Will revise Final EA accordingly
Dept. of Wastewater Management	01/26/98	No objections. Submit construction plans for review & approval	Submit plans for DWM routourforce.
Planning Department	02/04/98	" find the project consonant with these plans (General Dian & Denotation	No. 11 Dialis IOI Davial Tevrew/approval
		Plan) objectives and visions."	No action required
Fire Department	01/14/98	No objections to the proposed project	No action required
Civil Defense	01/22/98	No comment at this time	No action required
Neighborhood Board No. 18	03/13/98	1. Is the project designed to address current needs and future needs?	You
		2. Traffic congestion due to the current Salt Lake Boulevard widening work	Traffic control plans will be reviewed
			& approved by the City prior to work
		3. If the BWS cannot wait to be done in conjunction with the Salt Lake Blvd.	The final alignment will consider the
		widening project, the NHB prefers that, to the extent feasible and practical,	impact on the traffic during construction.
		Minimizing long classified in the existing shoulders and not in the travelway.	
		reministrib lane closures would certainly go a long way towards gaining	
		4. What actions will be taken to minimize construction point on the most minimize	
			Arthoraco to State Deat of Usella
			requirements
		5. Will there be any night work? We strongly urge that this not be done.	No night time work

# 0000 0025 267<u>5</u>

### BOARD OF WATER SUPPLY

CITY AND COUNTY OF HONOLULU 630 SOUTH BERETANIA STREET HONOLULU, HAWAII 96843 PHONE (808) 527-6180 FAX (808) 533-2714



April 2, 1998



JEREMY HARRIS, Ma Y

WALTER O. WATSON, JR., Chairman EDDIE FLORES. JR. KAZU HAYASHIDA JAN M.L.Y. AMII FORREST C. MURPHY JONATHAN K. SHIMADA, PhD BARBARA KIM STANTON

BROOKS H. M. YUEN, Manager and Chief Engineer

APR 0 1998

AKINAKA & ASSOCIATES, LTD.

Mr. Stanford B.C. Yuen, P.E. Commander
Naval Base Pearl Harbor
Department of the Navy
Box 110
Pearl Harbor, Hawaii 96860-5020

Dear Mr. Yuen:

Subject:

Your Letter of March 4, 1998 Regarding the Draft Environmental Assessment for the Proposed Salt Lake Boulevard 36-Inch Transmission Main Project, Honolulu, Oahu

\_\_\_\_

Thank you for reviewing the Draft Environmental Assessment for the proposed Salt Lake Boulevard 36-inch transmission main project.

The proposed project should not impact the Navy utility corridor during project construction.

If you have any questions, please contact Barry Usagawa at 527-5235.

Very truly yours,

BROOKS H. M. YUEN

Acting Manager and Chief Engineer

cc: Sheldon T. Yamasato, Akinaka & Associates, Ltd.



### **DEPARTMENT OF THE NAVY**

COMMANDER
NAVAL BASE PEARL HARBOR
BOX 110
PEARL HARBOR, HAWAII 96860-5020

5090P.1F0B Ser N40(23)/ 4468 March 4, 1998

Mr. Barry Usagawa
Planning Branch, Environmental Unit
Board of Water Supply
City and County of Honolulu
630 South Beretania Street
Honolulu, HI 96813

RELEIVED

MAR 6 1998

AKINAKA & ASSOCIATES, LTD

Dear Mr. Usagawa:

Subj: DRAFT ENVIRONMENTAL ASSESSMENT FOR THE SALT LAKE BOULEVARD 36-INCH TRANSMISSION MAIN, FOSTER VILLAGE TO ALIAMANU, PHASE II, SALT LAKE, OAHU, HAWAII

Thank you for providing us with information on the subject proposed Salt Lake Boulevard 36-inch transmission main project. The only comment the Navy has to offer is to keep the Navy utility corridor clear and undisturbed during project construction.

If you have any questions, please feel free to contact me by phone at 474-0439 or by facsimile transmission at 474-2328. You may also direct any future correspondence on this subject to me at Commander, Naval Base Pearl Harbor, Attn: (N40), Box 110, Pearl Harbor, HI 96860-5020.

Sincerely,

STANFORD B. C. YUEN, P.E.

Deputy Engineer
By direction of

Commander, Naval Base, Pearl Harbor

10 Buyun

Copy to:

Mr. Sheldon Yamasato Akinaka and Associates, Ltd. 250 North Beretania Street, Suite 300 Honolulu, HI 96817

### BOARD OF WATER SUPPLY

CITY AND COUNTY OF HONOLULU 630 SOUTH BERETANIA STREET HONOLULU. HAWAII 96843 PHONE (808) 527-6180 FAX (808) 533-2714



March 31, 1998

JEREMY HARRIS, Mayor

WALTER O. WATSON, JR., Chairman EDDIE FLORES, JR. KAZU HAYASHIDA JAN M.L.Y. AMII FORREST C. MURPHY JONATHAN K. SHIMADA, PhD BARBARA KIM STANTON

RAYMOND H. SATO Manager and Chief Engineer

Bruce S. Anderson, Ph.D.
Deputy Director for Environmental Health
Department of Health
State of Hawaii
P. O. Box 3378
Honolulu, Hawaii 96801

AFR 7 1998

AKINAKA & ASSOCIATES, LTD.

Dear Dr. Anderson:

Subject:

Your Letter of February 26, 1998 Regarding the Draft Environmental Assessment

for the Proposed Salt Lake Boulevard 36-Inch Transmission Main Project,

Honolulu, Oahu

Thank you for for reviewing the Draft Environmental Assessment (EA) for the proposed Salt Lake Boulevard 36-inch transmission main project.

We acknowledge that Chapter 11-43, Hawaii Administrative Rules (HAR), "Community Noise Control for Oahu" was repealed upon adoption of Chapter 11-46, HAR, "Community Noise Control." We understand that construction activities must comply with the provisions of Chapter 11-46. The Final EA will be revised accordingly.

If you have any questions, please contact Barry Usagawa at 527-5235.

Very truly yours,

FORRAYMOND H. SATO

Manager and Chief Engineer

cc: Sheldon T. Yamasato, Akinaka & Associates, Ltd.

BENJAMIN J. CAYETANO GOVERNOR OF HAWAII



STATE OF HAWAII
DEPARTMENT OF HEALTH

P.O. BOX 3378 HONOLULU, HAWAII 96801 **KELLIVED** 

In reply, please refer to:

LAWRENCE MIKE

DIRECTOR OF HEALTH

MAR 5 1998

AKINAKA & ASSOCIATES, LTD

February 26, 1998

96-078A

Mr. Barry Usagawa Planning Branch, Environmental Unit Board of Water Supply City and County of Honolulu 630 South Beretania Street Honolulu, Hawaii 96813

Dear Mr. Usagawa:

Subject: Draft Environmental Assessment (DEA)

Salt Lake 36-Inch Transmission Main

(A&A Job No:BWS 96-01)

Maluna Street to Ala Lilikoi Street

Honolulu, Hawaii

### Noise, Radiation & Indoor Air Quality Branch

Chapter 11-43, Hawaii Administrative Rules, "Community Noise Control for Oahu" is referred to in the Draft Environmental Assessment. Chapter 11-43, was repealed on September 26, 1996 upon adoption of Chapter 11-46, Hawaii Administrative Rules, "Community Noise Control." Chapter 11-46 is now applied statewide.

- 1. Construction activities must comply with the provisions of the Chapter 11-46, Hawaii Administrative Rules, "Community Noise Control."
  - a. The contractor must obtain a noise permit since the noise level from the construction activities are expected to exceed the allowable levels of the regulation as stated in Section 11-46-6(a).
  - b. Construction equipment and on-site vehicles requiring an exhaust of gas or air must be equipped with mufflers as stated in Section 11-46-6(b)(1)(A).
  - c. The contractor must comply with the conditional use of the permit as specified in the rules and conditions issued with the permit as stated in Section 11-46-7(d)(4).

Mr. Barry Usagawa February 26, 1998 Page 2 96-078A/epo

Should there be any questions, please call Mr. Jerry Haruno, Environmental Health Program Manager, Noise, Radiation and Indoor Air Quality Branch at 586-4701.

Sincerely,

Sruce S. Anderson, Ph.D.

Deputy Director for Environmental Health

c: NR&IAQB

### BOARD OF WATER SUPPLY

CITY AND COUNTY OF HONOLULU 630 SOUTH BERETANIA STREET HONOLULU, HAWAII 96843 PHONE (808) 527-6180 FAX (808) 533-2714



February 9, 1998



JEREMY HARRIS, Mayor

WALTER O. WATSON, JR., Chairman MAURICE H. YAMASATO, Vice Chairman KAZU HAYASHIDA MELISSA Y.J. LUM FORREST C. MURPHY JONATHAN K. SHIMADA, PhD BARBARA KIM STANTON

RAYMOND H. SATO Manager and Chief Engineer

Mr. Cecil B. Santos, Oahu District
Land Agent
Department of Land and Natural Resources
Land Division
State of Hawaii
P. O. Box 621
Honolulu, Hawaii 96809

RECEIVED

FEB 1 2 1998

AKINAKA & ASSOCIATES, LTD

Dear Mr. Santos:

Subject:

Your Letter of January 22, 1998 Regarding the Draft Environmental Assessment for the Proposed

Salt Lake Boulevard 36-Inch Transmission Main, Honolulu, Oahu, Hawaii

Thank you for reviewing the Draft Environmental Assessment for the proposed Salt Lake Boulevard 36-inch transmission main project.

We acknowledge that you have no objections to the proposed transmission main project since it will not involve any State lands.

If you have any questions, please contact Barry Usagawa at 527-5235.

Very truly yours,

RAYMOND H. SATO

Manager and Chief Engineer

cc: Sheldon Yamasato, Akinaka and Associates



### STATE OF HAWAII

### DEPARTMENT OF LAND AND NATURAL RESOURCES

LAND DIVISION

P.O. BOX 621 HONOLULU, HAWAII 96809

REF LD JGD

JAN 22 1998

Mr. Barry Usagawa Planning Branch, Environmental Unit Board of Water Supply 630 S. Beretania Street Honolulu, Hawaii 96813

Dear Mr. Usagawa:

Subject: Salt Lake Boulevard 36-Inch Transmission Main,

Foster Village to Aliamanu, Phase II Salt Lake,

Honolulu, Oahu TMK: 1st/ 1-1-17, 18, 21 & 71

This is in reference to your letter of January 10, 1998 requesting our review and comments. Thank you for the opportunity to review the subject project.

As per the letter of June 24, 1996 from Hugh Y. Ono, Administrator, Highways Division regarding the subject project, the project will not affect the State's Highway facilities as Salt Lake Boulevard is under the jurisdiction of the City and County. As such, the laying of the proposed transmission main will fall under the County's franchise agreement with the Board of Water Supply to resolve the land use, and no State lands are involved.

We do note that the Engineering Branch of the Land Division, as per copy of their letter of May 29, 1996 attached to the Draft Environmental Assessment (DEA), had no comments on the subject project. Additionally, the Historic Preservation Division of the this Department as per copy of their attached letter of June 5, 1996 attached to the DEA stated that the project had "no effect" on historic sites.

We also note that the installation of the proposed water main is not anticipated to hinder the existing land uses. Disruption to the residences will be temporary for the duration of the construction and the contractor will be required to maintain and provide ingress and egress to all existing driveways and public streets at all times. Impacts to flora and fauna resources are negligible as the entire Salt Lake Boulevard right of way width of 100 feet has already been disturbed to such an extent so the discovery of endangered resources is highly



AQUACULTURE DEVELOPMENT PROGRAM
AQUATIC RESOURCES
BOATING AND OCEAN RECREATION CONSERVATION AND RESOURCES ENFORCEMENT CONVEYANCES
FORESTRY AND WILDLIFE HISTORIC PRESERVATION LAND DIVISION STATE PARKS
WATER RESOURCE MANAGEMENT



# 0000 0025 <u>268</u>2

### BOARD OF WATER SUPPLY

CITY AND COUNTY OF HONOLULU 630 SOUTH BERETANIA STREET HONOLULU, HAWAII 96843 PHONE (808) 527-6180 FAX (808) 533-2714



March 17, 1998



JEREMY HARRIS, Mayor

WALTER O. WATSON, JR., Chairman EDDIE FLORES, JR. KAZU HAYASHIDA JAN M.L.Y. AMII FORREST C. MURPHY JONATHAN K. SHIMADA, PhD BARBARA KIM STANTON

RAYMOND H. SATO Manager and Chief Engineer

Mr. Don Hibbard, Administrator State Historic Preservation Division Department of Land and Natural Resources State of Hawaii 33 South King Street, Sixth Floor Honolulu, Hawaii 96813

Dear Mr. Hibbard:

Subject:

Your Letter of January 30, 1998 to Akinaka & Associates, Ltd. Regarding the Draft Environmental Assessment for the Proposed Salt Lake Boulevard 36-Inch Transmission Main Project, Honolulu, Oahu

Thank you for reviewing the Draft Environmental Assessment (EA) for the proposed Salt Lake Boulevard 36-inch transmission main project.

We acknowledge that the proposed project will have "no effect" on historic sites since there are no known historic sites at the project location. Section 2.9 of the Final EA will be revised with your comments of May 1996, indicating the project will have "no effect" on historic sites.

If you have any questions, please contact Barry Usagawa at 527-5235.

Very truly yours,

FOR RAYMOND H. SATO

Manager and Chief Engineer

Sheldon T., Yamasato, Akinaka & Associates, Ltd.

CC:

BENJAMIN J. CAYETANO **GOVERNOR OF HAWAII** 



P-134798

MICILAEL D. WILSON, CHAIRPERSON BOARD OF LAND AND NATURAL RESOURCES

DEPUTIES

GILBERT COLOMA-AGARAN

AQUACULTURE DEVELOPMENT **PROGRAM** 

**AQUATIC RESOURCES** CONSERVATION AND

RESOURCES ENFORCEMENT CONVEYANCES FORESTRY AND WILDLIFE HISTORIC PRESERVATION DIVISION LAND DIVISION

LOG NO: 20955 💆

DOC NO: 9801EJ16

STATE PARKS WATER AND LAND DEVELOPMENT

### STATE OF HAWAII

### DEPARTMENT OF LAND AND NATURAL RESOURCES

January 30, 1998

STATE HISTORIC PRESERVATION DIVISION 33 SOUTH KING STREET, 6TH FLOOR HONOLULU, HAWAII 96813

Mr. Barry Usagawa Planning Branch, Environmental Unit Board of Water Supply 630 S. Beretania Street City & County of Honolulu Honolulu, Hawaii 96813

Dear Mr. Usagawa:

Chapter 6E-8 Historic Preservation Review -- Draft Environmental Assessment SUBJECT:

(EA) Salt Lake Boulevard: 36 Inch Transmission Main, Foster Village to

Aliamanu Phase II

Moanalua, Kona, O'ahu

**TMK: 1-1** 

We commented to Akinaka & Associates during the preparation of the EA on this project in May of 1996 (Log 17224/Doc. 9605EJ29). Our comments consisted of the following:

Thank you for the opportunity to comment during the preparation of an Environmental Assessment for the 36-inch Transmission Main from Foster Village to Aliamanu, Phase Il along Salt Lake Boulevard. A review of our records shows that there are no known historic sites at the project location. The area has been extensively modified and developed making it unlikely that historic sites remain. Therefore, we believe that this project will have "no effect" on historic sites.

Section 2.9 of the DEA cites approval for the FEIS Salt Lake Boulevard, Puuloa Road to Halawa Heights Road Extension, dated Feb. 1977 as a reference for historic sites. This should be updated with our comments of May 1996 which are included in Appendix A of the DEA.

If you have any questions please call Elaine Jourdane at 587-0015.

Aloha

on Hibbard, Administrator Historic Preservation Division

EJ:jk

Mr. Sheldon Yamasato, Akinaka & Associates, 250 N. Beretania St. Suite 300, Honolulu, Hawaii 96817

### BOARD OF WATER SUPPLY

CITY AND COUNTY OF HONOLULU 630 SOUTH BERETANIA STREET HONOLULU, HAWAII 96843 PHONE (808) 527-6180 FAX (808) 533-2714



February 9, 1998



WALTER O. WATSON, JR., Chairman MAURICE H. YAMASATO, Vice Chairman KAZU HAYASHIDA MELISSA Y.J. LUM FORREST C. MURPHY JONATHAN K. SHIMADA, PhD BARBARA KIM STANTON

RAYMOND H. SATO Manager and Chief Engineer

RECEIVED

FEB 1 2 1998

AKINAKA & ASSOCIATES, LTD

Mr. Kazu Hayashida, Director Department of Transportation State of Hawaii 869 Punchbowl Street Honolulu, Hawaii 96813

Dear Mr. Hayashida:

Subject:

Your Letter of January 27, 1998 Regarding the Draft Environmental Assessment for the Proposed Salt Lake Boulevard 36-Inch Transmission Main, Honolulu,

Oahu, Hawaii

Thank you for reviewing the Draft Environmental Assessment for the proposed Salt Lake Boulevard 36-inch transmission main project.

We acknowledge that the proposed project will not adversely impact any State highway facilities.

If you have any questions, please contact Barry Usagawa at 527-5235.

Very truly yours,

RAYMOND H. SATC

Manager and Chief Engineer

cc: Sheldon Yamasato, Akinaka and Associates

BENJAMIN J. CAYETANO GOVERNOR



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

JAN 27 1998

P-54/98

KAZU HAYASHIDA DIRECTOR

DEPUTY DIRECTORS BRIAN K. MINAAI GLENN M. OKIMOTO

IN REPLY REFER TO:

HWY-PS 2.7861

Mr. Barry Usagawa Planning Branch, Environmental Unit Board of Water Supply City and County of Honolulu 630 South King Street Honolulu, Hawaii 96813

Dear Mr. Usagawa:

Subject: Draft Environmental Assessment

Salt Lake 36-inch Transmission Main Maluna Street to Ala Lilikoi Street

Thank you for your consultant's transmittal of January 10, 1998, regarding the above subject.

The proposed installation of a 36-inch water transmission main in Salt Lake Boulevard from Maluna Street to Ala Lilikoi Street will not adversely impact our State highway facilities.

Very truly yours,

KAZU HAYASHIDA

Director of Transportation

tagn bayarhich

c: Mr. Sheldon T. Yamasato
Vice President
Akinaka & Associates, Ltd.
250 North Beretania Street, Suite 300
Honolulu, Hawaii 96817

### BOARD OF WATER SUPPLY

CITY AND COUNTY OF HONOLULU 630 SOUTH BERETANIA STREET HONOLULU, HAWAII 96843 PHONE (808) 527-6180 FAX (808) 533-2714



February 18, 1998



JEREMY HARRIS, Mayor

WALTER O. WATSON, JR., Chairman MAURICE H. YAMASATO, Vice Chairm KAZU HAYASHIDA MELISSA Y.J. LUM FORREST C. MURPHY JONATHAN K. SHIMADA, PhD BARBARA KIM STANTON

RAYMOND H. SATO Manager and Chief Engineer

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FEB 1 9 1998

AKINAKA & ASSOCIATES, LTD

Mr. Gordon Matsuoka
Public Works Administrator
Department of Accounting
and General Services
State of Hawaii
P. O. Box 119
Honolulu, Hawaii 96810

Dear Mr. Matsuoka:

Subject:

Your Letter of February 10, 1998 Regarding the Draft Environmental Assessment

for the Proposed Salt Lake Boulevard 36-Inch Transmission Main Project,

Honolulu, Oahu

Thank you for reviewing the Draft Environmental Assessment for the proposed Salt Lake Boulevard 36-inch transmission main project.

We acknowledge that you have no comments on the proposed project.

If you have any questions, please contact Barry Usagawa at 527-5235.

Very truly yours,

RAYMOND H. SATO

Manager and Chief Engineer

cc: Sheldon T. Yamasato, Akinaka & Associates, Ltd.



BENJAMIN J. CAYETANO GOVERNOR

### STATE OF HAWAII

DEPARTMENT OF ACCOUNTING AND GENERAL SERVICES
P.O. BOX 119, HONOLULU, HAWAII 96810

LETTER NO. (P) 1065

FEB 1 0 1998

Mr. Barry Usagawa Planning Branch, Environmental Unit Board of Water Supply City and County of Honolulu 630 South Beretania Street Honolulu, Hawaii 96813

Dear Mr. Usagawa:

Subject: Draft Environmental Assessment

Salt Lake 36-Inch Transmission Main Maluna Street to Ala Lilikoi Street

A&A Job No.: BWS 96-01

Thank you for the opportunity to review the subject document. We have no comments to offer.

If there are any questions, please have your staff contact Mr. Ronald Ching of the Planning Branch at 586-0490.

Sincerely,

GORDON MATSUOKA

Public Works Administrator

RC:jk

c: Akinaka & Associates, Ltd.

### BOARD OF WATER SUPPLY

CITY AND COUNTY OF HONOLULU 630 SOUTH BERETANIA STREET HONOLULU, HAWAII 96843 PHONE (808) 527-6180 FAX (808) 533-2714



February 5, 1998

COPY

JEREMY HARRIS, Mayor

WALTER O. WATSON, JR., Chairman MAURICE H. YAMASATO, Vice Chairman KAZU HAYASHIDA MELISSA Y.J. LUM FORREST C. MURPHY JONATHAN K. SHIMADA, PhD BARBARA KIM STANTON

RAYMOND H. SATO Manager and Chief Engineer

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FEB 1 0 1998

AKINAKA & ASSOCIATES, LTD

Mr. Gary Gill, Director
Office of Environmental Quality Control
State of Hawaii
235 South Beretania Street, Suite 702
Honolulu, Hawaii 96813

Dear Mr. Gill:

Subject: Your Letter of January 7, 1998 Regarding the Draft Environmental Assessment for

the Proposed Salt Lake Boulevard 36-Inch Transmission Main Project, Honolulu,

Oahu, Hawaii

Thank you for reviewing the Draft Environmental Assessment (EA) for the proposed Salt Lake Boulevard 36-inch transmission main project.

The Final EA will be revised to include a discussion on the existing water system and the cumulative effects of the proposed improvements. The primary purpose of the proposed main is to provide additional transmission capacity from Pearl Harbor to Honolulu to accommodate the projected growth in Honolulu. Increasing transmission capacity with parallel mains ensures continuity of service during repair activities and reduces system pressures and their associated main breaks.

If you have any questions, please contact Barry Usagawa at 527-5235.

Very truly yours,

RAYMOND H. SATO

Manager and Chief Engineer

c: Sheldon Yamasato, Akinaka and Associates, Ltd.

BENJAMIN J. CAYETANO GOVERNOR



GART DIRECTOR

### STATE OF HAWAII

### OFFICE OF ENVIRONMENTAL QUALITY CONTROL

235 SOUTH BERETANIA STREET SUITE 702 HONOLULU, HAWAII 96813 TELEPHONE (208) 586-4185 FACSIMILE (808) 586-4186

January 7, 1997

Mr. Barry Usagawa
Board of Water Supply
City and County of Honolulu
630 South Beretania Street
Honolulu, Hawai'i 96843

Dear Mr. Usagawa:

The Office of Environmental Quality Control (OEQC) submits for your response the following comments on a draft environmental assessment (DEA) entitled "Salt Lake Boulevard 36-Inch Transmission Main: Foster Village to Aliamanu, Phase II."

1. CUMULATIVE EFFECTS: Please discuss the existing water system in the area and the cumulative effects (on local, regional and island-wide land use, population, etc.) of the proposed improvements.

Please include a copy of this letter and your response for their inclusion in the final environmental assessment and notice of determination on this project.

If there are any questions regarding this letter, please call Les Segundo of my staff at 586-4185. Thank you for the opportunity to comment.

Sincerely,

Director of Environmental Quality Control

c: Mr. Sheldon Yamasato, Akinaka & Associates, Ltd.

# CORRECTION

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

BENJAMIN J. CAYETANO



GARY GILL DIRECTOR

### STATE OF HAWAII

### OFFICE OF ENVIRONMENTAL QUALITY CONTROL

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

January 7, 1997

Mr. Barry Usagawa Board of Water Supply City and County of Honolulu 630 South Beretania Street Honolulu, Hawai'i 96843

Dear Mr. Usagawa:

The Office of Environmental Quality Control (OEQC) submits for your response the following comments on a draft environmental assessment (DEA) entitled "Salt Lake Boulevard 36-Inch Transmission Main: Foster Village to Aliamanu, Phase II."

1. CUMULATIVE EFFECTS: Please discuss the existing water system in the area and the cumulative effects (on local, regional and island-wide land use, population, etc.) of the proposed improvements.

Please include a copy of this letter and your response for their inclusion in the final environmental assessment and notice of determination on this project.

If there are any questions regarding this letter, please call Les Segundo of my staff at 586-4185. Thank you for the opportunity to comment.

Sincerely,

Director of Environmental Quality Control

c: Mr. Sheldon Yamasato, Akinaka & Associates, Ltd.

### BOARD OF WATER SUPPLY

CITY AND COUNTY OF HONOLULU 630 SOUTH BERETANIA STREET HONOLULU, HAWAII 96843 PHONE (808) 527-6180 FAX (808) 533-2714



March 17, 1998



JEREMY HARRIS, Mayor

WALTER O. WATSON, JR., Chairman EDDIE FLORES, JR. KAZU HAYASHIDA JAN M.L.Y. AMII FORREST C. MURPHY JONATHAN K. SHIMADA, PhD BARBARA KIM STANTON

RAYMOND H. SATO Manager and Chief Engineer

> RECEIVED MAR 1 8 1998

AKINAKA & ASSOCIATES, LTD

Office of Hawaiian Affairs
State of Hawaii
711 Kapiolani Boulevard, Suite 500
Honolulu, Hawaii 96813-5249

Mr. Randall Ogata, Administrator

Dear Mr. Ogata:

Subject: Your Letter of February 20, 1998 to Akinaka & Associates, Ltd. Regarding the

Draft Environmental Assessment for the Proposed Salt Lake Boulevard 36-Inch

Transmission Main Project, Honolulu, Oahu

Thank you for reviewing the Draft Environmental Assessment (EA) for the proposed Salt Lake Boulevard 36-inch transmission main project.

The Final EA, Section 2.9 will be revised to include the notification of the Oahu Island Burial Council in the event human remains are inadvertently unearthed.

If you have any questions, please contact Barry Usagawa at 527-5235.

Very truly yours,

FOR RAYMOND-H. SATO

Manager and Chief Engineer

c: Sheldon T. Yamasato, Akinaka & Associates, Ltd.



# STATE OF HAWAI'I OFFICE OF HAWAIIAN AFFAIRS A KAPI'OLANI BOUL EVARD. SUITE 50

711 KAPI'OLANI BOULEVARD, SUITE 500 HONOLULU, HAWAI'I 96813

February 20, 1998

Sheldon T. Yamasato Akinaka & Associates, Ltd. 250 N. Beretania St., Suite 300 Honolulu, HI 96817

DOC NO.: EIS-130

Subject: Draft Environmental Assessment for the Salt Lake 36-inch Transmission Main, Island of Oahu

Dear Mr. Yamasato:

Thank you very much for the opportunity to review the above-referenced Draft Environmental Assessment (DEA). The City and County of Honolulu, Board of Water Supply (BWS) is proposing to construct a 36-inch transmission main along Saltt Lake Boulevard from Maluna Street to Ala Lilikoi. The new main will be approximately 4,800 feet in length and will be installed within the Salt Lake Boulevard right of way.

The Office of Hawaiian Affairs (OHA) has some concerns with the existence of human burials within the area. It may be unlikely that burials will be encountered, because of the previously disturbed condition of the site, and the proposed aligned of the transmission main with existing underground utilities. Nonetheless, due to the subsurface nature of the proposed project the possibility of encountering burials remains. OHA concurs with the mitigative measures for archaeological resources setforth in the DEA, but feels that these measures should be amended to include the immediate notification of the Oahu Island Burial Council in the event human remains are inadvertently unearthed.

If you have any questions or comments regarding this matter please contact Colin Kippen, Land and Natural Resources Division Officer, or Richard Stook, EIS Planner at 594-1755.

Sincerely yours,

Randall Ogata

Administrator

Conn Kippen, Officer
Land and Natural Resources

cc: Raymond Sato, Board of Water Supply Barry Usagawa, Board of Water Supply Board of Trustees



### SOARD OF WATER SUPPLY

CITY AND COUNTY OF HONOLULU 630 SOUTH BERETANIA STREET HONOLULU, HAWAII 96843 PHONE (808) 527-6180 FAX (808) 533-2714



February 9, 1998

JEREMY HARRIS, Mayor

WALTER O. WATSON, JR., Chairman MAURICE H. YAMASATO, Vice Chain KAZU HAYASHIDA MELISSA Y.J. LUM FORREST C. MURPHY JONATHAN K. SHIMADA, PhD BARBARA KIM STANTON

RAYMOND H. SATO Manager and Chief Engineer

RÉCEIVED

FEB 1 2 1998

**AKINAKA & ASSOCIATES, LTD** 

TO:

JAN NAOE SULLIVAN, DIRECTOR

DEPARTMENT OF KAND UTILIZATION

FROM:

RAYMOND H. SATO, MANAGER AND CHIEF ENGINEER

BOARD OF WATER SUPPLY

SUBJECT:

YOUR MEMORANDUM OF JANUARY 28, 1998 REGARDING THE DRAFT ENVIRONMENTAL ASSESSMENT FOR THE PROPOSED SALT LAKE BOULEVARD 36-INCH TRANSMISSION MAIN PROJECT

Thank you for reviewing the Draft EA for the proposed Salt Lake Boulevard 36-inch transmission main project.

We acknowledge that the proposed project is not within the Special Management Area.

If you have any questions, please contact Barry Usagawa at 527-5235.

CC:

Sheldon Yamasato, Akinaka and Associates

DEPARTMENT OF LAND UTILIZATION

980326

REGITY AND COUNTY OF HONOLULU

BD OF WATER SUPPLY 650 SOUTH KING STREET, 7TH FLOOR . HONOLULU, HAWAII 96813 PHONE: (808) 523-4414 FAX: (808) 527-6743

PE

JAN 28 4 37 PM '98

JEREMY HARRIS



JAN NACE SULLIVAN

LORETTA K.C. CHEE

DEPUTY DIRECTOR

98-00331(DT) 98 EA Comments Zone 1

January 28, 1998

### **MEMORANDUM**

TO:

RAYMOND H. SATO, MANAGER AND CHIEF ENGINEER

BOARD OF WATER SUPPLY

ATTN:

BARRY USAGAWA

FROM:

JAN NAOE SULLIVAN, DIRECTOR

DEPARTMENT OF LAND UTILIZATION

SUBJECT:

DRAFT ENVIRONMENTAL ASSESSMENT (DEA), SALT LAKE BOULEVARD 36-INCH TRANSMISSION MAIN, FOSTER VILLAGE TO ALIAMANU

TAX MAP KEYS: 1-1-17, 18, 21, AND 71

We have reviewed the above-referenced DEA and have no comments to offer at this time. The project is not within the Special Management Area.

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

JAN NAME SULLIVAN

Director of Land Utilization

JNS: am

cc: Akinaka & Associates, Ltd.

(Sheldon T. Yamasato)

g:ppd\9800331.djt

# 0000 0025 269<u>6</u>

### BOARD OF WATER SUPPLY

CITY AND COUNTY OF HONOLULU 630 SOUTH BERETANIA STREET HONOLULU, HAWAII 96843 PHONE (808) 527-6180 FAX (808) 533-2714



March 13, 1998



WALTER O. WATSON, JR., Chairman EDDIE FLORES, JR. KAZU HAYASHIDA JAN M.L.Y. AMII FORREST C. MURPHY JONATHAN K. SHIMADA, PhD BARBARA KIM STANTON

RAYMOND H. SATO Manager and Chief Engineer

RECEIVED

MAR, 1 3 1998

AKINAKA & ASSOCIATES, LTD.

TO:

JONATHAN K. SHIMADA, Ph.D., DIRECTOR AND CHIEF ENGINEER

DEPARTMENT OF PUBLIC WORKS

FROM: FOR RAYM

H. SATO, MANAGER AND CHIEF ENGINEER

BOARD OF WATER SUPPLY

SUBJECT:

YOUR MEMORANDUM OF FEBRUARY 2, 1998 REGARDING THE

DRAFT ENVIRONMENTAL ASSESSMENT FOR THE PROPOSED SALT

LAKE BOULEVARD 36-INCH TRANSMISSION MAIN PROJECT

Thank you for reviewing the Draft Environmental Assessment (EA) for the proposed Salt Lake Boulevard 36-inch transmission main project.

The Final EA will be revised to incorporate your comments.

If you have any questions, please contact Barry Usagawa at 527-5235.

/cc: Sheldon Yamasato, Akinaka and Associates

DEPARTMENT OF PUBLIC WORKS

# BD OF WATER SUPEL YOUTH KING STREET, 1 1TH FLOOR . HONOLULU, HAWAII 96813

98043

PHONE: (808) 523-4341 • FAX: (808) 527-5857

FEB 4 3 25 PH 198

JEREMY HARRIS



JONATHAN K. SHIMAL DIRECTOR AND CHIEF EI

IN REPLY REFER 1

98-10-002

February 2, 1998

### <u>MEMORANDUM</u>

TO:

MR. RAYMOND SATO, MANAGER AND CHIEF ENGINEER

BOARD OF WATER SUPPLY

ATTN:

MR. BARRY USAGAWA, PLANNING BRANCH

ATHAN R. SHIMADA, DIRECTOR AND CHIEF ENGINEER

DEPARTMENT OF PUBILIC WORKS

SUBJECT:

DRAFT ENVIRONMENTAL ASSESSMENT FOR SALT LAKE BOULEVARD

36-INCH TRANSMISSION MAIN MALUNA STREET TO ALA LILIKOI STREET,

A&A JOB NO.: BWS 96-01

We have noted our comments on the attached sheets.

Should you have any questions, please call Richard Suzuki at extension 5059.

Attach.

cc/attach: Akinaka & Associates, Ltd.

### **SECTION 1 - PROJECT DESCRIPTION**

### 1.1 PURPOSE OF PROPOSED ACTION

The City & County of Honolulu, Board of Water Supply (BWS) is proposing to construct a 36-inch transmission main along Salt Lake Boulevard from Maluna Street to Ala Lilikoi, in the vicinity of TMK: 1-1-17, 18, 21, and 71, First District. The primary purpose of the proposed main is to provide additional transmission capacity from Pearl Harbor to Honolulu. The proposed main will also be an integral part of the Moanalua Subarea system, and will ensure continuity of service during maintenance and repair of the existing transmission mains.

The Moanalua Subarea includes Fort Shafter, Red Hill, Aliamanu, Salt Lake and the Honolulu International Airport. The Moanalua Subarea is presently serviced by nine (9) wells, six of which are private, and two (2) shafts, one of which is private. The Board of Water Supply has three (3) wells at its Moanalua Station and the Kalihi Shaft.

The existing BWS transmission system within Salt Lake Boulevard consists of one 24-inch and two 36-inch mains, one of which is only partially in place for the planned length. The proposed project will complete the 36-inch transmission system for the area.

### 1.2 LOCATION

The proposed water main will be routed through the Salt Lake district as shown in EXHIBIT 1 - PROJECT VICINITY MAP and EXHIBIT 2 - PROJECT LOCATION MAP. The entire alignment of the new main will be in the Salt Lake Boulevard right-of-way.

### 1.3 DESCRIPTION OF THE PROPOSED ACTION

### 1.3.1 PROPOSED ACTION

The construction of the new main will begin near the intersection of Maluna Street and Salt Lake Boulevard and extend about 4,800 linear feet easterly to near the intersection of Salt Lake Boulevard (SLB) and Ala Lilikoi (see EXHIBIT 3 - PROPOSED SYSTEM SCHEMATIC LAYOUT). The new main will connect to existing "stub-outs" at both ends of the project. The new main will be installed within the Salt Lake Boulevard right-of-way.

Construction will be accomplished in two separate sections as follows:

SECTION 1 - About 1,500 linear feet of the new 36-inch main will be constructed with the Department of Public Works' (DPW) project titled "Salt Lake Boulevard Widening, Bougainville Drive to Reeves Street" which is planned for construction in 1997.

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### 1.3.3 CONSTRUCTION MATERIALS AND METHODS

The proposed water main will be bid with two alternate pipe material types as follows:

1) concrete cylinder pipe (CCP) or 2) poly-wrapped ductile iron pipe. The material type will be determined during the bid process, as proposed by the selected bidder.

Butterfly valves will be installed at intervals along the length of the water main to \_ facilitate operation, maintenance, and repair. The main will be installed at varying depths to avoid existing utilities. A maximum depth of 8 feet will be maintained as much as possible. A typical trench section in accordance with the BWS design standards is shown in EXHIBIT 4 - TYPICAL TRENCH & PAVEMENT RESTORATION DETAILS.

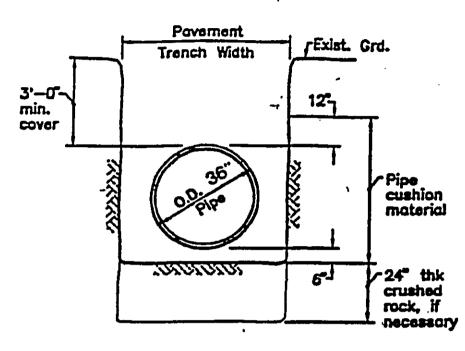
If the new main is installed with the Salt Lake Boulevard widening project, the trenching and installation will be coordinated with the final paving to eliminate the need for pavement restoration.

Installation procedures will include removal of pavement, trench excavation, bedding and pipe placement, backfilling & compaction, embankment work, and pavement restoration. Roadway trenches will be about 4'-6" wide. The length of open trench at any one time will be limited to facilitate traffic control during construction. The contractor shall also be responsible for the disposal of unsuitable or unused material. Excavated material will not be stockpiled along the side of the trench, but shall be removed from the site and later returned by the contractor during the backfilling activities. This will mitigate potential siltation problems generated by the project.

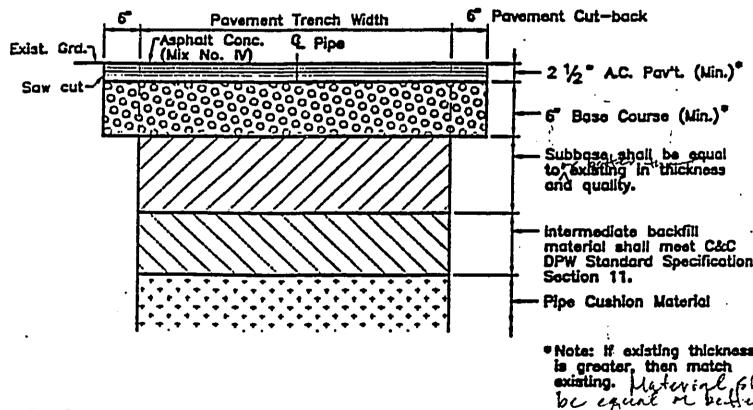
It is not anticipated that ground water will be encountered during excavation. However, if it becomes necessary to pump storm water out of any segment of trench, the water will be collected and properly disposed of to preclude the necessity of an NPDES permit.

As the new transmission main will be incrementally installed, each increment will be hydrotested and disinfected. After the main is hydrostatically tested for leaks and approved, the pipe will then be disinfected with a chlorine solution, which will be disposed of in the partially dug trench for the subsequent increment. Hydrotesting water for the last increment will be collected and trucked away for disposal. This disposal procedure will eliminate the requirement of an NPDES permit for this project.

Traffic control and other activities concerning traffic impacts are discussed in SECTION 2.13 - ROADWAYS AND TRAFFIC.



# TYPICAL TRENCH DETAIL



TYPICAL PAVEMENT RESTORATION DETAIL

# TYPICAL TRENCH & PAVEMENT RESTORATION DETAIL

SALT LAKE BLVD. 36-INCH TRANSMISSION MAIN FOSTER VILLAGE TO ALIAMANU, PHASE II

EXHIB 4

# 0000 0025 270 L

### 1.4 ESTIMATED CONSTRUCTION SCHEDULE AND COST

The entire 4,800 linear feet project is estimated at \$5.26 million and will be funded entirely by the Board of Water Supply, City & County of Honolulu.

The first segment from Maluna Street to Reeves Street is scheduled for construction in 1997, together with the Salt Lake Boulevard Widening project.

The implementation of the second and final segment from Reeves Street to Ala Lilikoi Street is not yet determined. However, it should immediately follow the completion of the first segment as a continuation, although basically independent of DPW's final widening schedule.

### 2.8 RECREATION

There are no recreational facilities in the project limits, however, motorists may use Salt Lake Boulevard to travel to the parks in the surrounding area. In addition, the annual "Aloha Fun Walk & Run" held on the Presidents' Day holiday, uses a portion (Bougainville Drive to Aloha Stadium) of Salt Lake Boulevard as a part of the route for the event. The construction in the project limits will probably have very little impact on or to that route.

### Impact and Mitigative Measures

Park users who travel the project area during construction may experience inconveniences due to delays in travel time, construction related dust and noise. Public notices will be issued to inform the public of the construction period and as an advisory to select alternative routes.

The impact to the Aloha Fun Walk & Run event, although expected to be negligible, will be coordinated with the contractor. Measures to maintain the public safety, such as properly barricading open excavations, will be implemented for the duration of the event.

### 2.9 HISTORIC SITES AND ARCHAEOLOGICAL RESOURCES

According to the Final Environmental Impact Statement for Salt Lake Boulevard, Puuloa Road to Halawa Heights Road Extension, approved 02/04/77, "The State Department of Land and Natural Resources (DLNR), Division of State Parks, has indicated that there are no known natural, historic, or archaeological sites with the project right of way."

### Impact and Mitigative Measures

Should anything of potential significance, including human burials, be uncovered during the installation of the water main, all work in the area will cease. The State Historic Preservation Division, DLNR, will then be contacted for further action.

### 2.10 AESTHETIC VALUES

There are no apparent aesthetic values along the length of the proposed project. The existing Salt Lake Boulevard is a two lane facility, primarily abutted by residences. The land between the edge of the existing two lane asphalt concrete pavement and the right of way is occupied by embankments and shrubbery. In areas fronting private properties, the land is being used for parking of private vehicles.

The Salt Lake Boulevard Widening project by the Dept. of Public Works will enhance the aesthetic value of the corridor by eliminating the blight. Furthermore, it will also

provide urban uniformity within the right of way with improvements such as concrete sidewalks and possible landscaping.

## Impact and Mitigative Measures

It should be noted that the normal construction activities will cause temporary visual pollution which will cease upon completion of construction activities.

### 2.11 ECONOMIC ACTIVITY

Although there are no business along Salt Lake Boulevard within the limits of the proposed project, commercial activity centers are located at each end of Salt Lake Boulevard as follows:

West (Ewa) side of project limits

- o Bougainville Commercial Center (COSTCO)
- BHP Gas Express
- o Stadium Mall
- o Kmart
- o Aloha Stadium

### East (Honolulu) side of project limits

- Salt Lake Shopping Center
- Mapunapuna Commercial Complex

#### Impact and Mitigative Measures

During construction, customers of businesses in the area may experience inconveniences due to delays in travel time, construction related dust and noise. Public notices will be issued to inform the public of the construction period and as an advisory to select alternative routes to the commercial centers.

### 2.12 UTILITIES

The new 36-inch water main is proposed to be aligned in the existing roadway where other water, sewer, gas, fuel oil, drain, electrical, telephone, cable television, and communication lines exist. The underground utilities vary in size from small service conduits to large transmission mains. The telephone and electrical power lines primarily exist overhead.

### Impact and Mitigative Measures

The new 36-inch water main will be designed to minimize the impact to existing utilities. Coordination with all utility companies will be done to verify existing line locations and to prevent any possible conflicts.

### 2.13 ROADWAYS AND TRAFFIC

The proposed water main will be aligned along Salt Lake Boulevard which is presently a two-lane asphalt concrete paved roadway. The Department of Public Works, City & County of Honolulu is presently in the process of widening Salt Lake Boulevard in various phases as follows:

1. Luapele Drive to Bougainville Drive - Construction 1996 to 1998

2. Bougainville Drive to Reeves Street - Design 1996 to 1997
Construction - 1997 to 1999
1999

3. Reeves Street to Ala Lilikoi - Design & Construction(Future - To be determined)

### Impact and Mitigative Measures

Whether the 36-inch water main is constructed with the DPW Salt Lake Boulevard Widening project or not, the contractor is required to provide a minimum of two lanes of traffic (one in each direction) during construction. Temporary traffic congestion is anticipated during all phases of the construction. This is expected to cause residents, and users of the roadway to experience longer travel times. Mitigative measures include use of traffic controls during working hours, as well as adequate public notices to advise motorist to consider alternate routes and anticipate delays. Additionally, no construction will be allowed during morning and afternoon rush hours, when traffic is usually at its peak. An approved traffic control plan will be used to provide safe and efficient movement through the construction area. Construction warning signs, cones, barricades and police officers will be incorporated within this plan.

Also, to minimize the impact to traffic, BWS proposes to have the new water main installed in phases. Each phase will be completed prior to starting the next phase. The contractor will be required to take all necessary precautions to provide for the protection, convenience and safety of the public. During non-working hours, open trenches shall be covered with non-skid steel plates and all lanes shall be opened to traffic.

All work within the City & County right of way shall be accomplished within the hours of 8:30 a.m. to 3:30 p.m., Monday through Friday. If the contractor proposes to work outside these hours, he will be required to obtain permission from the City & County Department of Transportation Services for purposes of coordination of the city's bus schedule.

### BOARD OF WATER SUPPLY

CITY AND COUNTY OF HONOLULU 630 SOUTH BERETANIA STREET HONOLULU, HAWAII 96843 PHONE (808) 527-6180 FAX (808) 533-2714



February 25, 1998



JEREMY HARRIS, Mayor

WALTER O. WATSON, JR., Chairman MAURICE H. YAMASATO, Vice Chairman KAZU HAYASHIDA MELISSA Y.J. LUM FORREST C. MURPHY JONATHAN K. SHIMADA, PhD BARBARA KIM STANTON

RAYMOND H. SATO Manager and Chief Engineer

KELLIVED

MAR 5 1998

AKINAKA & ASSOCIATES, LTD

TO:

KENNETH E. SPRAGUE, DIRECTOR

DEPARTMENT OF WASTEWATER MANAGEMENT

FROM: FOR RAYMOND H SATO, MANAGER AND CHIEF ENGINEER

BOARD OF WATER SUPPLY

SUBJECT:

YOUR MEMORANDUM OF JANUARY 26, 1998 REGARDING THE DRAFT

ENVIRONMENTAL ASSESSMENT FOR THE PROPOSED SALT LAKE

**BOULEVARD 36-INCH TRANSMISSION MAIN PROJECT** 

Thank you for reviewing the Draft Environmental Assessment for the proposed Salt Lake Boulevard 36-inch transmission main project.

We acknowledge that you have no objections to the proposed project. We note that there are existing sewer lines within the project limits. Construction plans will be submitted for your review and approval upon completion.

If you have any questions, please contact Barry Usagawa at 527-5235.

Sheldon Yamasato, Akinaka and Associates

DEPARTMENT OF WASTEWATER MANAGEMENT ...

#### COUNTY OF AND HONOLULU

P-70/98

650 SOUTH KING STREET, 3RD FLOOR . HONOLULU. HAWAII 96813 PHONE: (808) 527-6663 . FAX: (808) 527-6675

JEREMY HARRIS



KENNETH E. SPRAGUE, P.E., Ph.D. DIRECTOR

CHERYL K. OKUMA-SEPE, ESO DEPUTY DIRECTOR

In reply refer to: WCC 98-17

January 26, 1998

### <u>MEMORANDUM</u>

TO:

MR. BARRY USAGAWA

PLANNING BRANCH, ENVIRONMENTAL UNIT

**BOARD OF WATER SUPPLY** 

FROM:

KENNETH E. SPRAGUE, DIRECTOR DEPARTMENT OF WASTEWATER MANAGEMENT

SUBJECT:

DRAFT ENVIRONMENTAL ASSESSMENT

SALT LAKE BOULEVARD 36-INCH TRANSMISSION MAIN

MALUNA STREET TO ALA LILIKOI STREET

TMK: 1-1-17, 18, 21,71

In response to your letter of January 10, 1998, we have no objection to the construction of the proposed 36-inch water transmission main along Salt Lake Boulevard between Maluna Street and Ala Lilikoi Street. However, please note that there are existing sewer lines within the project limits. Please submit construction plans for this project to us for our review and approval.

If you have any questions, please contact Ms. Tessa Ching of the Service Control Branch at 523-4956.

Mr. Sheldon T. Yamasato (Akinaka & Associates, Ltd.) cc:

# 0000 0025 2°

#### BOARD OF WATER SUPPLY

CITY AND COUNTY OF HONOLULU 630 SOUTH BERETANIA STREET HONOLULU, HAWAII 96843 PHONE (808) 527-6180 FAX (808) 533-2714



March 18, 1998



JEREMY HARRIS, Mayor

WALTER O. WATSON, JR., Chairman EDDIE FLORES, JR. KAZU HAYASHIDA JAN M.L.Y. AMII FORREST C. MURPHY JONATHAN K. SHIMADA, PhD BARBARA KIM STANTON

RAYMOND H. SATO Manager and Chief Engineer

....LEIVED

MAR 2 4 1998

AKINAKA & ASSOCIATES, LTD

TO:

PATRICK T. ONISHI, CHIEF PLANNING OFFICER

PLANNING DEPARTMENT

BINGY 77 Y FROM: FOR RAYMOND H. SATO, MANAGER AND CHIEF ENGINEER

BOARD OF WATER SUPPLY

SUBJECT:

YOUR MEMORANDUM OF FEBRUARY 4, 1998 REGARDING THE

DRAFT ENVIRONMENTAL ASSESSMENT FOR THE PROPOSED SALT

LAKE BOULEVARD 36-INCH TRANSMISSION MAIN PROJECT

Thank you for reviewing the Draft Environmental Assessment for the proposed Salt Lake Boulevard 36-inch transmission main project.

We acknowledge that the proposed project is consistent with the objectives and visions of the General Plan and Development Plan.

If you have any questions, please contact Barry Usagawa at 527-5235.

cc:

Sheldon Yamasato, Akinaka and Associates

**PLANNING DEPARTMENT** 

### CITY AND COUNTY OF HONOLULU

P-133/98

650 SOUTH KING STREET, 8TH FLOOR • HONOLULU, HAWAII 96813-3017 PHONE: (808) 523-4711 • FAX: (808) 523-4950

JEREMY HARRIS



PATRICK T. ONISHI CHIEF PLANNING OFFICER

DONA L. HANAIKĘ '
DEPUTY CHIEF PLANNING OFFICER

RR 1/98-0052

February 4, 1998

TO:

RAYMOND H. SATO, MANAGER AND CHIEF ENGINEER

**BOARD OF WATER SUPPLY** 

ATTN:

**BARRY USAGAWA** 

PLANNING BRANCH, ENVIRONMENTAL UNIT

FROM:

PATRICK T. ONISHI

CHIEF PLANNING OFFICE

SUBJECŤ:

DRAFT ENVIRONMENTAL ASSESSMENT, SALT LAKE BOULEVARD

36-INCH TRANSMISSION MAIN: MALUNA STREET TO ALA LILIKOI

STREET - FOSTER VILLAGE TO ALIAMANU, PHASE II

We are responding to your letter dated January 10, 1998 requesting comments on the above Draft Environmental Assessment. We have reviewed the report with regards to the proposed project's General Plan and Development Plan for the Primary Urban Center impacts and find the project consonant with these Plans' objectives and visions.

Should you have any questions, pleases contact Robert Reed of our staff at 523-4402.

PTO:lh

c: Akinaka & Associates, Ltd.

### BOARD OF WATER SUPPLY

CITY AND COUNTY OF HONOLULU 630 SOUTH BERETANIA STREET HONOLULU, HAWAII 96843 PHONE (808) 527-6180 FAX (808) 533-2714



February 6, 1998



JEREMY HAR

WALTER O. WATSON, JR., Chairman MAURICE H. YAMASATO, Vice Chairman KAZU HAYASHIDA MELISSA Y.J. LUM FORREST C. MURPHY JONATHAN K. SHIMADA, PhD BARBARA KIM STANTON

RAYMOND H. SATO Manager and Chief Engineer

KELLIVED

FEB 1 0 1998

AKINAKA & ASSOCIATES, LTD

TO:

ANTHONY J. LOPEZ, JR., FIRE CHIEF

FIRE DEPARTMENT

FROM:

FOR RAYMOND H. SATO, MANAGER AND CHIEF ENGINEER

BOARD OF WATER SUPPLY

SUBJECT:

YOUR MEMORANDUM OF JANUARY 14, 1998 REGARDING THE

DRAFT ENVIRONMENTAL ASSESSMENT FOR THE PROPOSED SALT

LAKE BOULEVARD 36-INCH TRANSMISSION MAIN PROJECT,

HONOLULU, OAHU

Thank you for reviewing the Draft Environmental Assessment for the proposed Salt Lake Boulevard 36-inch transmission main project.

We acknowledge that you have no objections to the proposed project.

If you have any questions, please contact Barry Usagawa at 527-5235.

Sheldon T. Yamasato, Akinaka & Associates, Ltd. CC:

# 0000 0025 27 10

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JAN 21 2 58 PH '98

FIRE DEPARTMENT

### COUNTY OF HONOLULU

3375 KOAPAKA STREET, SUITE H425 HONOLULU, HAWAII 96819-1869 O CALED.

PE

ANTHONY J. LOPEZ, JR. FIRE CHIEF

ATTILIO K. LEONARDI FIRE DEPUTY CHIEF



TO:

RAYMOND H. SATO, MANAGER AND CHIEF ENGINEER

**BOARD OF WATER SUPPLY** 

ATTN:

**BARRY USAGAWA** 

PLANNING BRANCH, ENVIRONMENTAL UNIT

FROM:

ANTHONY J. LOPEZ, JR., FIRE CHIEF

SUBJECT:

SALT LAKE 36-INCH TRANSMISSION MAIN

MALUNA ST. TO ALA LILIKOI ST.

A&A JOB NO: BWS 96-01 HFD INTERNAL NO. 98-013

We have reviewed the correspondence dated January 10, 1998, received from Sheldon T. Yamasato of Akinaka & Associates, Ltd. and have no objections to the continued use of the comments in paragraph 2.14 Police, Fire and Emergency Services.

Should you have any questions, please call Battalion Chief Charles Wassman of our Fire Prevention Bureau at 831-7778.

ANTHONY J. LOPEZ, JR.

Fire Chief

AJL:mpn

cc: Sheldon T. Yamasato, Akinaka & Associates, Ltd.

### BOARD OF WATER SUPPLY

CITY AND COUNTY OF HONOLULU 630 SOUTH BERETANIA STREET HONOLULU, HAWAII 96843 PHONE (808) 527-6180 FAX (808) 533-2714



February 6, 1998



JEREMY HARRIS, Mayor

WALTER O. WATSON, JR., Chairman MAURICE H. YAMASATO, Vice Chairman KAZU HAYASHIDA MELISSA Y.J. LUM FORREST C. MURPHY JONATHAN K. SHIMADA, PhD BARBARA KIM STANTON

RAYMOND H. SATO Manager and Chief Engineer

NE LIVED

FEB 1 0 1998

AKINAKA & ASSOCIATES, LTD

TO:

JOSEPH D. REED, ADMINISTRATOR

OAHU CIVIL DEFENSE AGENCY

FROM: FOR RAYMOND H. SATO, WANAGER AND CHIEF ENGINEER

BOARD OF WATER SUPPLY

SUBJECT:

YOUR MEMORANDUM OF JANUARY 22, 1998 REGARDING THE

DRAFT ENVIRONMENTAL ASSESSMENT FOR THE PROPOSED SALT

LAKE BOULEVARD 36-INCH TRANSMISSION MAIN PROJECT,

<u>HONOLULU, OAHU</u>

Thank you for reviewing the Draft Environmental Assessment for the proposed Salt Lake Boulevard 36-inch transmission main project.

We acknowledge that you have no comments at this time.

If you have any questions, please contact Barry Usagawa at 527-5235.

Sheldon T. Yamasato, Akinaka & Associates, Ltd. cc:

OAHU CIVIL DEFENSE AGENCY

# CITY AND COUNTY OF HONOLULU

650 SOUTH KING STREET HONOLULU, HAWAII 96813 PHONE: 523-4121

JEREMY HARRIS



JOSEPH D. RI

ADMINISTRAT

January 22, 1998

MEMO TO:

BARRY USAGAWA, PLANNING BRANCH

ENVIRONMENTAL UNIT

BOARD OF WATER SUPPLY

FROM:

JOSEPH D. REED, ADMINISTRATOR

SUBJECT:

DRAFT ENVIRONMENTAL ASSESSMENT

Thank you for the opportunity to review the Draft Environmental Assessment for Project: Salt Lake 36-Inch Transmission Main, Maluna St. to Ala Lilikoi St., A&A Job No: BWS 96-01.

This Agency has no comments on the draft at this time.

JDR:ms

cc: Mr. Shelton T. Yamasato

Aikinaka & Associates, Ltd.

# 0000 0025 27 13

#### BOARD OF WATER SUPPLY

CITY AND COUNTY OF HONOLULU 630 SOUTH BERETANIA STREET HONOLULU, HAWAII 96843 PHONE (808) 527-6180 FAX (808) 533-2714



April 15, 1998



**JEREMY HARRIS, Mayor** 

VIALTER O. WATSON, JR., Chairman EDDIE FLORES, JR. VI-ZU HAYASHIDA JAN M.L.Y. AMII FORREST C. MURPHY JCNATHAN K. SHIMADA, PhD EARBARA KIM STANTON

BROOKS H. M. YUEN, As Manager and Chief Engineer

Mr. Mark Taylor, Chairperson Aliamanu/Salt Lake/Foster Village Neighborhood Board No. 18 c/o Neighborhood Commission City Hall, Room 400 Honolulu, Hawaii 96813



AKINAKA & ASSOCIATES, LTD.

Dear Mr. Taylor:

Subject:

Your Letter of March 13, 1998 Regarding the Draft Environmental Assessment for Board of Water Supply's Proposed 36-Inch Water Main Along Salt Lake Boulevard, from Maluna Street to Ala Lilikoi Street

Thank you for reviewing the Draft Environmental Assessment (EA) for the proposed water transmission main. We have the following reply to the comments in your letter, and your concerns from our presentation to the Neighborhood Board on February 12, 1998:

### 1. Purpose and Need

The proposed Salt Lake Boulevard 36-inch water main will increase the transmission capacity for moving water from existing and future Pearl Harbor area well stations into the Honolulu area. The additional capacity will enable the Board of Water Supply (BWS) to meet current and future demands from Moanalua to Hawaii Kai. The current water demand in Honolulu has increased by 10 million gallons per day (mgd) since 1980 to 1997 (75 - 85 mgd). The future demand in the year 2020 is projected to increase by an additional 18 mgd (85 - 103 mgd).

The additional transmission capacity will increase our ability to lower operating costs for transmitting water by reducing pumping costs. Also, the reliability of water service will be enhanced by decreasing the chance of water main breaks.

The proposed Salt Lake Boulevard transmission main is one of three remaining segments for providing water transmission capacity from Waipahu into Honolulu. The other two remaining segments are along Moanalua Road and Dillingham Boulevard, both scheduled for construction this year, 1998.



Mr. Mark Taylor Page 2 April 15, 1998

The Waipahu to Honolulu transmission project has been scheduled for construction since the 1970's. The first phase of the Salt Lake Boulevard segment was completed in 1980. The other segments of the project that have been completed from Waipahu to Honolulu are along Farrington Highway, Moanalua Road, Salt Lake Boulevard, Puuloa Road, Kamehameha Highway, and Dillingham Boulevard.

#### 2. Construction

We have sent a memorandum to the Department of Public Works (DPW) to confirm our previous discussions with them on proceeding separately with the construction of our water main. If DPW can confirm that the roadway improvements will be constructed in 1999, we will then adjust our construction schedule to start with DPW's construction. If not, we plan to proceed separately in June 1999. We are still awaiting their reply to our memorandum.

The traffic control plans will be submitted to the County's Department of Transportation Services for review and approval prior to beginning construction. Two lanes of traffic will remain open to accommodate the construction.

### 3. Alignment

The alignment of the main may have to be located in the roadway to avoid relocating fuel lines and trees, and to minimize excavation problems. Two lanes of traffic should still be available for the entire project with this alignment, with temporary routing of traffic along some shoulder areas of Salt Lake Boulevard. We looked at alternative alignments, locating the pipeline in the makai shoulder area and a combination of both, on and off the roadway, but concluded that the most feasible alignment is within the roadway for the reasons noted above.

# CORRECTION

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



Mr. Mark Taylor Page 2 April 15, 1998

The Waipahu to Honolulu transmission project has been scheduled for construction since the 1970's. The first phase of the Salt Lake Boulevard segment was completed in 1980. The other segments of the project that have been completed from Waipahu to Honolulu are along Farrington Highway, Moanalua Road, Salt Lake Boulevard, Puuloa Road, Kamehameha Highway, and Dillingham Boulevard.

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The traffic control plans will be submitted to the County's Department of Transportation Services for review and approval prior to beginning construction. Two lanes of traffic will remain open to accommodate the construction.

### 3. Alignment

The alignment of the main may have to be located in the roadway to avoid relocating fuel lines and trees, and to minimize excavation problems. Two lanes of traffic should still be available for the entire project with this alignment, with temporary routing of traffic along some shoulder areas of Salt Lake Boulevard. We looked at alternative alignments, locating the pipeline in the makai shoulder area and a combination of both, on and off the roadway, but concluded that the most feasible alignment is within the roadway for the reasons noted above.



Mr. Mark Taylor Page 3 April 15, 1998

### 4. Noise

The proposed project must comply with the provisions of the Hawaii Administrative Rules (HAR), Chapter 11-46, "Community Noise Control", which includes obtaining a noise permit if noise levels exceed the allowable levels of the HAR. The project specifications will reflect this. Work around schools will be done when school is not in session. In addition, blasting will not be required during construction.

#### 5. Night Work

There will be no night work performed during construction. The contractor's working hours will be limited between 7:30 a.m. to 3:30 p.m., unless as approved by BWS.

We plan to schedule a meeting with residents within the project limits to obtain their comments before we start the design phase of the project.

If you have any questions, please contact Herbert Minakami at 527-6183.

Very truly yours,

BROOKS H. M. YUEN

Acting Manager and Chief Engineer

cc: Councilmember Donna Kim
-Sheldon Yamasato, Akinaka and Associates

9809'



### RECEIVED ALIAMANU/SALT-LWATE/FEISHER VILLAGE NEIGHBORHOOD BOARD NO. 18

c/o neighborhood commission • city hall, room 400 • honolulu, hawaii 96818

March 13, 1998

4. 16 1 02 PH '9A

MAR 1 6 898 CC: Mgr Dep

.Mr. Raymond Sato, Manager and Chief Engineer .Boxed of Water Supply 630 S. Beretania Street Honolulu HI 96813

Attu: Planning Branch, Environmental Unit

Dear Mr. Sato:

SUBJECT:

Draft Environmental Assessment - Salt Lake 36-Inch Transmission Main

Mahma Street to Ala Lilikoi Street

A&A Job No. BWS 96-01

The Aliamanu/Salt Lake/Foster Village Neighborhood Board, upon review of the subject Draft BA, offers the following comments and questions:

- Purpose and Need. The Draft EA only addresses what is being proposed and not why this project 1. is needed. Is the project designed to address current needs or future needs?
- 2. Construction. As explained in the attached letter from the Department of Public Works, construction of Phase II of the Salt Lake Boulevard widening project, from Bougainville Drive to Receves Street, is scheduled to take place from early 1999 to late 2000. Also, Phase III of the Salt Lake Bonlevard widening project, from Reeves Street to Ala Lilikoi Street, is scheduled to take place from mid-2001 to mid-2003. Instruuch as the locations of these projects overlap the location of the proposed BWS project, the Neighborhood Board strongly urges that the BWS project be done in conjunction with the Salt Lake Boulevard widening. Traffic congestion due to current Salt Lake Boulevard widening work has highlighted the need for coordinated infrastructure
- 3. Alignment. If the BWS project cannot wait to be done in conjunction with the Salt Lake Boulevard widening project, the Neighborhood Board prefers that, to the extent feasible and practical, the water line be installed in the existing shoulders and not in the travelway. Minimizing lane closures would certainly go a long way towards gaining community support.

Noise. What actions will be taken to minimize construction noise, as the work will be adjacent to 4. residential areas as well as a school? Will there be any blasting required?

5. Night Work. Will there be any night work? We would strongly tage that this not be done.

Thank you for the opportunity to comment. We further appreciate your stuff coming to our February meeting and making a presentation on this project.

Mark Taylor, Chair

Cc: N.B. 18 Mambers

Walter Watson, Chair, Board of Water Supply Sheldon Yamasato, Akinaga & Associates

Jonathan K. Shimada, Director and Chief Engineer, Department of Public Works

Comcilmember Donna Mercado Kim

Dale Overbey, President, Foster Village Community Association

Representative Bob McDermon Representative Nathan Suzuki Senstor Norman Sakatomo



DEPARTMENT OF PUBLIC WORKS

## CITY AND COUNTY OF HONOLULU

650 SOUTH KING STREET, 1 TH PLOOR + HONDLULU, HAWAH 96613 PHONE: (806) 823-4241 + PAR: (808) 827-8857

JEREMY MARRIS



JONATHAN K. SHIMADA. DIRECTOR AND CHIEF ENGIN

98-13-0136

March 12, 1998

Mr. Mark Taylor, Chair
Aliamanu/Salt Lake/Foster Village
Neighborhood Board No. 18
c/o Neighborhood Commission
City Hall, Room 400
Honolulu, Hawaii 96813

Dear Mr. Taylor:

Subject: Salt Lake Boulevard Widening, Bougainville Drive to Reeves Street

Thank you for your letter dated March 3, 1998, relating to the Board of Water Supply's 36-inch transmission main, Phase II, Maluna Street to Ala Lilikoi project on Salt Lake Boulevard.

Our updated schedule for our future road improvements in the area is as follows:

1. Bougainville Drive to Reeves Street

Final design is anticipated to be finished in August 1998. Federal funds are programmed for Federal Fiscal Year 1999 and construction is anticipated to start in early 1999 and end in late 2000. We intend to begin construction earlier if possible.

Reeves Street to Ala Lilikoi

Design is anticipated to start in 1998. Federal funds are anticipated to be programmed in Federal Fiscal Year 2000 and construction is anticipated to start in mid-2001 and end in mid-2003.

Should you have any questions, please call Tim Trang of the Division of Engineering at 523-6106.

Very truly yours,

Jonathan K. Shimada, PhD Director and Chief Engineer