August 2, 1995

Office of Environmental Quality Control
220 South King Street, 4th Floor
Honolulu, Hawaii 96813

Gentlemen:

Subject: Gulick Avenue Relief Sewer

Negative Declaration (EA)

There were no comments received during the 30-day public comment period which began on June 8, 1995. The Department of Wastewater Management has determined that the subject project will not have a significant environmental impact and has issued a Negative Declaration. Please publish this notice in the August 23, 1995 OEQC Bulletin.

We have enclosed a completed OEQC Bulletin Publication Form and four copies of the Final EA.

Should there be any questions, please contact Cedric Takamoto of the Division of Planning and Service Control at 523-4067.

Very truly yours,

Cheryl K. Okuma-GeFic
Director

Enclosures
August 1, 1995

NOTICE OF NEGATIVE DECLARATION
Gulick Avenue Relief Sewer

This is a Notice of Negative Declaration for the subject project pursuant to Chapter 343, HRS. The subject project will involve the use of City funds. The notice of determination is based on an Environmental Assessment prepared by Akinaka and Associates, the consultant for the Department of Wastewater Management, City and County of Honolulu. The pertinent data for this notice are as follows:

1. Proposing Agency: Department of Wastewater Management, City and County of Honolulu

2. Proposed Action: Construction to relieve surcharged sewer lines in Gulick Avenue and Kalihi Street. The work involves construction of relief lines and the repair of existing lines.

   Short term environmental impacts caused by construction activities will not significantly affect business, public or private. Ambient noise levels will be reduced to below the State Department of Health daytime limit of 55 dba. Service interruptions will be kept to a minimum and alternate routes for sewage flows will be provided during construction. The contractor will follow State and County regulations for controlling dust and noise, posting warning signs and covering or barricading excavations when required for safety and for providing traffic control if needed.

   Long term environmental impacts may include reducing the possibility of spills from surcharged lines and problems associated with structural failures of sewer pipes.

3. Determination: Since we have determined that the proposed work will not have a significant impact on the environment, an Environmental Impact Statement will not be prepared. Other agencies and individuals were consulted and the Draft EA was published in the June 8, 1995 OEQC Bulletin. No comments were received.

4. Reasons Supporting Determination: Reasons and conclusions supporting the determination are based on the following criteria. The proposed work will not:
   - destroy any archeological, historical or cultural resources;
   - directly affect any rare or endangered species, flora, or fauna;
   - conflict with the State’s environmental policies and goals expressed in Chapter 343, HRS;
   - affect the economic or social welfare of the community or State;
   - degrade environmental quality.

5. Contact Person - Cedric Takamoto, Division of Planning & Service Control 650 S. King St., 14th Floor, Honolulu, Hawaii 96813 Telephone No.: 523-4067

[Signature]
FELIX B. LINTZICO
Director
DEPARTMENT OF WASTEWATER MANAGEMENT
CITY AND COUNTY OF HONOLULU

FINAL
ENVIRONMENTAL ASSESSMENT
FOR
GULICK AVENUE RELIEF SEWER
AT
KALIHI, HONOLULU, HAWAII
TMK: 1-3-17, 18, 24 TO 26

JULY 1995

PROPOSING AGENCY: DEPARTMENT OF WASTEWATER MANAGEMENT
CITY AND COUNTY OF HONOLULU
650 SOUTH KING STREET
HONOLULU, HAWAII

RESPONSIBLE OFFICIAL: FELIX B. LIMTIACO 7/19/95

PREPARED BY: AKINAKA & ASSOCIATES, LTD.
CONSULTING ENGINEERS
250 NORTH BERETANIA STREET, SUITE 300
HONOLULU, HAWAII 96817

THIS ENVIRONMENTAL DOCUMENT IS SUBMITTED PURSUANT TO CHAPTER 343, HRS
# ENVIRONMENTAL ASSESSMENT
**GULICK AVENUE RELIEF SEWER**

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MARCH 1995
I. INTRODUCTION

A. PROJECT DESCRIPTION

The proposed project involves relief of Gulick Avenue Sewers. The recommended alternative includes installation of relief sewer lines on: 1) Likiliki Highway between Kono and Makuahine Streets, 2) Kalihi Street between Likiliki Highway and Akahi Street and, 3) Makuahine Street from Likiliki Highway to School Street. Repair and replacement of the existing lines in these areas are also recommended.

B. PROJECT LOCATION

EXHIBIT 1: LOCATION MAP shows the Project in Southern Oahu at the northern edge of Honolulu. The area is mainly residential with supporting neighborhood - commercial sections. The area is approaching full development as envisioned by the City & County's Primary Urban Center Development Plan (Development Plan).

C. PROJECT OBJECTIVES

The objective of the project is to increase the system capacity of specific sections of the Hart Street Pump Station wastewater collection system; thereby providing adequate service to the area.
II. DESCRIPTION OF PROPOSED PROJECT

A. BACKGROUND AND EXISTING CONDITIONS

The Islandwide Sewer Adequacy Project, dated September 1990, indicated that sections of the Hart Street Pump Station wastewater collection system were inadequate based on the City & County's Primary Urban Center Development Plan (Development Plan).

The existing wastewater collection system is part of facilities studied by the Islandwide Sewer Adequacy Project and identified therein as Station Code 83 (SI83). SI83 represents a Station Node for School Street at Houghtaling Street and provides technical sewage data. EXHIBIT 2: VICINITY MAP shows the existing wastewater system within the Kalihi district.

The existing system under study transports sewage from tributary areas as shown on EXHIBIT 3: EXISTING SYSTEMS MAP. Specific sections under study include:

1. Kalihi Valley Trunk Sewer Section I-II: 24" gravity sewer along Gulick Avenue, constructed in 1957;
2. Gulick Avenue Extension: 8" gravity sewer, constructed in 1922;
3. Akahi Street Extension: 8" gravity sewer, constructed in 1955;
4. Kalihi Valley Road Sewer Extension "B": 8" gravity sewer along Kalihi Street, constructed in 1925;

B. VISUAL AND TV INSPECTION

GELCO Services, Inc. was sub-contracted to clean and TV inspect the sewerline, visually inspect the manholes and provide reports covering their findings and recommendations. The limits of work for GELCO were the 18" & 24" sewer line along Gulick Avenue, the 8" sewer line along Gulick Ave. from Ano Lane to Likelike Highway, then continuing through Akahi Street to Kalihi Street and along Kalihi Street to Malu Street. Their reports are summarized as follows.

Field inspections were completed between February 22, 1993 and February 25, 1993. Inspections indicate that nearly 40% of the sewer line is structurally damaged (1,766 ft. of 4,372 ft. total).
Some sections (1,280 ft.) have severe cracks. The severely cracked sections cannot be repaired by chemical grouting. Replacement or lining will be required to rehabilitate the system.

In general, the alignment and grades are acceptable. Sags were evident in a few sections but flow was not impeded. Leaks from misaligned joints and service laterals were not significant.

Thirty-One (31) manholes were inspected. Of the thirty-one (31) manholes inspected, ten (10) were moderately deteriorated at the invert. These same manholes require epoxy-cement-type repair for the walls. One (1) other heavily deteriorated manhole requires plastic wall lining.

Engineers Surveyors Hawaii (ESH) was subcontracted to verify manhole invert elevations. Their findings, when compared with as-built grades, indicate that inverts shown on the as-builts are fairly accurate.

C. PROPOSED IMPROVEMENTS

The recommended improvements involve installation of sewer relief lines on Likelike Highway between Kono and Makuhine Streets, on Kalihi Street between Likelike Highway and Akahi Street and on Makuhine Street from Likelike Highway to School Street. Repair of the existing lines in these areas is also included. The improvement also includes installation of 800' of replacement sewer line on Kalihi Street between Maliu and Akahi Streets.

Replacement and relief sewer line construction will require trenching at depths ranging from 6 to 25 feet. Connections to existing laterals will require adjustments within the road right-of-way.

D. PROJECT FUNDING

The preliminary construction cost estimate for this project is approximately $9.1 million. Funding for this project will be provided by the City and County of Honolulu. Construction of this project will not require direct assessments to the residents being served by the improvements.
III. ENVIRONMENTAL SETTING

A. TOPOGRAPHY

The project area encompasses portions of central Kalihi Valley. The area has been entirely regraded by urbanization with slopes between 2% and 10%.

B. GEOLOGY/SOILS

The soil in the project area is of the Kawaihapai series. Soils of the Kawaihapai series are well-drained in drainage-ways. The soils are derived from basic igneous rock in humid uplands. In a representative profile, the surface layer is dark-brown clay loam about 22 inches thick. The next layer is dark-brown stratified sandy loam 32 inches thick. The substratum is stony and gravelly. The soil is neutral in reaction throughout the profile.

Permeability is moderate, and runoff is slow. The hazard of water erosion is slight. Workability is slightly difficult because the stoniness.

C. CLIMATE

The area has a mild subtropical climate with prevailing northeast trade winds. Mean annual temperature is 77°F. Occasional average temperatures in the lower seventies in January-February and slightly over 80°F during August-October. The mean annual rainfall averages 22.4 inches at the Honolulu International Airport. The mean annual precipitation at the Nuuanu Reservoir No. 4 is 124 inches. Heavy rains often occur during November-February, with only about 20 percent of the annual rainfall occurring in October-March.

D. BIOLOGY

There are no known endangered species of flora or fauna located within the project site. Due to the fully developed areas surrounding the project, construction of this project will have no impact on wildlife.
E. AIR QUALITY

Although no information on air quality at the project site was obtained, it is observed that the air is relatively clear and low in pollution. This is because of the distance from major urban centers and industries which produce noxious gases.

F. NOISE

Noise levels were not measured at the project site. The noise levels are basically normal residential activities and primarily urban road traffic.

G. ARCHAEOLOGY

There are no identified historic or archaeologically significant locations located within the project site. However, should any unanticipated sites, artifacts or remains, such as shell, bone or charcoal deposits, be discovered during construction, the work would be halted and mitigating measures will be discussed with the State Historic Preservation Office prior to commencing construction activity.

H. FLOOD HAZARD

The Project is not considered to be in a flood-prone area. The Flood Insurance Rate Map (FIRM), City and County of Honolulu, Hawaii, Panel 115 of 135, shows the Project to be outside the 500-year flood plain (Zone X).
IV. SOCIO-ECONOMIC SETTING

The Kalihi neighborhood consisted of approximately 41,000 people in 1988. Most residents within the neighborhood's 10,500 households who are in the labor force work in Honolulu. The Kalihi town core includes commercial businesses and retail activities to service the neighborhood. Agricultural production is insignificant in the neighborhood.

Lands along the sewer pipe alignment include residential and commercial spaces as well as public schools. Lot sizes range (in general) from 5,000 to 10,000 square feet. Multi-family residential units are insignificant in number. Commercial activities (shopping center, restaurant and office buildings) are situated near the School Street/Makuhine Street intersection.
V. PROBABLE IMPACTS OF THE PROPOSED ACTION ON THE ENVIRONMENT

A. SHORT TERM IMPACTS

Short term impacts of the proposed project will be primarily due to construction. Use of construction equipment such as backhoes, trucks, hand compactors, and pavers will create noise, dust and exhaust emissions. The noise of the construction equipment will be minimized by placing mufflers on machinery, avoiding unnecessary "gunning" of equipment, and restricting construction activity during daylight hours.

Daily traffic of the construction crew should be during off-peak hours. Construction activities will partially interfere with the flow of vehicular traffic. Traffic control by off-duty Police Officers and/or trained construction flagmen will mitigate traffic congestion. Parking will be restricted on both sides of streets (where applicable) during construction. Utilities such as water, electric, gas and telephone installations may also be affected by the construction activities. Construction plans will be reviewed for coordination by all utility companies affected.

Groundwater is not expected during trench construction. Pumping and other dewatering operations will not be required.

B. LONG TERM IMPACTS

There are no negative long term impacts from this sewer relief project.

The project's goal is to relieve the inadequate sewer lines in the area to allow development of the tributary area as defined by the Development Plan.
VI. ADVERSE IMPACTS WHICH CANNOT BE AVOIDED

The noise level will increase during the construction period. This effect will be of short duration, lasting only for the construction phase. The noise level can be reduced by the contractor by ensuring proper functioning of mufflers on all equipment, and conducting construction activity only during daylight hours, between 7:30 a.m. to 5:00 p.m. Actual construction schedule will be as determined by the Department of Health.

During construction, dust may be generated from pipe installation procedures. The contractor will be required to comply with the procedures outlined by the Department of Health to mitigate the dust emission.

Traffic along the proposed alignment will be disrupted for short periods during installation of the relief sewer line and connection to the existing laterals.

Residents along the proposed alignment will be inconvenienced in regards to driveway access and other roadway frontage usage (mail, deliveries, etc.). Construction specifications will include requirements for lot access. The inconveniences will occur when construction is directly fronting their lots.

Alternate methods of construction (such as micro-tunneling) may reduce noise impacts, dust emissions and traffic congestion (see VII.-D. ALTERNATE CONSTRUCTION METHODS).
VII. ALTERNATIVES TO THE PROPOSED ACTION

Six alternatives for the relief sewer system were considered in the Preliminary Engineering Report. Three of the alternatives were selected for detailed study. The objectives for the alternatives were to increase the capacity of the sewer system to meet the requirements of the Development Plans projected land use. Alternative 2 is the recommended alternative.

Commonly, each of the alternatives proposes to repair the existing gravity sewer lines and install relief gravity sewer lines. These consists of: (1) Approximately 800' of existing sewer line along Kalihi Street will be replaced. (2) Relief Sewer Line "A" (R.S.L. "A") will start on Likelike Highway near Kono Street. (3) Relief Sewer Line "B" (R.S.L. "B") will start at the intersection of Maliau and Kalihi Street and continue down Kalihi Street to Likelike Highway.

R.S.L. "A" will intersect R.S.L. "B" at the Kalihi Street/Likelike Highway intersection. Each alternative will continue with R.S.L. "A" through different corridors.

A. ALTERNATIVE 2 (the recommended alternative) proposes to repair the existing gravity sewer lines and install relief gravity sewer lines. Approximately 800' of existing sewer line along Kalihi Street will be replaced. Relief sewer lines will be placed in Likelike Highway, Kalihi Street and Makawaine Street (R.S.L. "A2") to School Street. EXHIBIT 4: ALTERNATIVE 2, show the alignment for the existing and relief gravity sewer lines. Total construction cost can be found in TABLE 1: COST ESTIMATE FOR ALTERNATIVE 2.

B. ALTERNATIVE 3 proposes to repair the existing gravity sewer lines and install relief gravity sewer lines. Approximately 800' of existing sewer line along Kalihi Street will be replaced. Relief sewer lines will be placed in Likelike Highway, Kalihi Street and Owawa Street (R.S.L. "A3") to School Street. EXHIBIT 5: ALTERNATIVE 3 shows the alignment for the existing and relief gravity sewer lines. Total construction cost can be found in TABLE 2: COST ESTIMATE FOR ALTERNATIVE 3.

C. ALTERNATIVE 4 proposes to repair the existing gravity sewer lines and install relief gravity sewer lines. Approximately 800' of existing sewer line along Kalihi Street will be replaced. Relief sewer lines will be placed in Kalihi Street and Likelike Highway (R.S.L. "A4") to School Street. EXHIBIT 6: ALTERNATIVE 4 shows the alignment for the existing and relief gravity sewer lines. Total construction cost can be found in TABLE 3: COST ESTIMATE FOR ALTERNATIVE 4.
D. ALTERNATE CONSTRUCTION METHODS

In lieu of the typical open trenching method of pipe installation, micro-tunneling has become the choice in special situations. Micro-tunneling is a precision method of directly jacking pipe to line and grade through the ground without an open trench. Micro-tunneling is an alternate solution in congested urban areas, yielding soil conditions, and high groundwater locations. Also, tunneling under streams will preclude permit requirements by Federal and State agencies. The cost effectiveness of micro-tunneling will not be known until the soils investigation is completed.

A soils investigation is required to determine if micro-tunneling is feasible. Borings along the pipe alignment will reveal soils conditions and groundwater levels. Knowledge of groundwater levels is important for any construction method and to initiate the NPDES dewatering permits.

E. NO ACTION ALTERNATIVE

The "no action" alternate is not practical as inspections have shown that the existing systems have deteriorated to a condition where repair is required. Studies have also shown that the system is undersized. A program to reduce infiltration and inflow has been initiated by the city. If successful, the construction of the relief system may be postponed.
## TABLE 1

**CONSTRUCTION COST ESTIMATE ALTERNATIVE 2**

(RELIEVE EXISTING SEWER VIA MAKUHINE STREET)

**FILE:** TABLE1.XLS  
**DATE:** 3/26/95

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<td>LF</td>
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**SUB-TOTAL**                                      |                    |        |            | 9,745,010|

**MOBILIZATION @ 6%**                              |                    |        |            | 10,329,711|
**INFLATION 1992-1994 @ 5%**                       |                    |        |            | 10,846,186|

**SAY $10,847,000**
## TABLE 2
CONSTRUCTION COST ESTIMATE ALTERNATIVE 3
(RELIEVE EXISTING SEWER VIA OWAWA STREET)

**FILE: TABLE2.XLS**

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**SUB-TOTAL**

11,232,185

**MOBILIZATION @ 6%**

11,909,116

**INFLATION 1992-1994 @ 3%**

12,501,422

**SAY $12,502,000**
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VIII. RELATIONSHIP BETWEEN LOCAL SHORT TERM USES AND MAINTENANCE AND ENHANCEMENT OF LONG TERM PRODUCTIVITY

The short term use of the project is the same as its long term use - increase the capacity of the existing sewer system. Repair of sections of the pipeline and rehabilitation of sewer manholes will extend the system life. The proposed action, if implemented, will enable the City and County of Honolulu to meet the sewer demands of the Development Plans projected land use.

The proposed action will not involve trade-offs between short-term uses, foreclose future options, narrow the range of beneficial use of the environment, nor pose long-term risks to health and safety. Repair of existing facilities may prevent sewer overflow and its related problems.
IX. MITIGATING MEASURES TO MINIMIZE ADVERSE IMPACTS

The short term impacts occurring during the construction work will be minimized by applying current techniques and methods. Use of alternate construction methods (such as micro-tunneling), may mitigate the negative impacts of noise, dust and traffic conflicts. In addition, restrictions of operational hours will minimize noise impacts to the adjoining area.

To minimize pollutant emissions from internal construction engines, the contractor will be responsible for proper maintenance of all construction equipment and vehicles.

The contractor will be required to comply with Department of Health regulations to mitigate dust emission. Dust is not anticipated to be a problem due to the sandy nature of the native soil. Dust problems can be mitigated by use of an appropriate water sprinkling method and limiting the area being worked at any one time.

Traffic control by off-duty Police Officers and/or trained construction flagmen will moderate traffic congestion.
X. IRREVERSIBLE AND IRRETRIEVABLE COMMITMENTS OF RESOURCES

The construction of the proposed project would involve the commitment of certain natural and fiscal resources. The commitment of construction materials, manpower, and energy are mostly unrenewable and irretrievable. The impacts of using these resources should, however, be weighed against the benefits to the residents of Kalihi who will not experience future sewage bypasses/overflows. There will be no loss of any natural or cultural resources.
XI. DETERMINATION

Based on the preceding paragraphs, it is anticipated that the proposed action will result in no significant adverse impacts other than those described in this assessment. Consequently, a Negative Declaration is recommended and therefore, and Environmental Impact Statement would not be required.
XII. REASONS SUPPORTING RECOMMENDED DETERMINATION

A. The proposed action does not involve an irrevocable commitment or loss of or destruction of any natural cultural resource:

There are no natural or cultural resources associated with the project site. Development of the project area has substantially altered the site from its natural condition.

B. The proposed action does not curtail the range of beneficial uses of the environment:

The proposed project is consistent with the County's General Plan and the Department of Wastewater Managements planning standards and would not curtail beneficial uses of the environment in the area. The proposed project will be compatible with the uses of the surrounding area.

C. The proposed action is in concert with the State's long-term environmental policies, goals and guidelines as expressed in Chapter 343, HRS, and any revisions and amendments thereto, court decisions and executive orders:

The proposed project is consistent with the State's Land Use Plan which is in concert with all applicable policies, goals and guidelines. No long-term environmental conflicts are foreseen.

D. The proposed action does not substantially affect the economic or social welfare of the community or State:

The economic impact will be affected by the short-term, construction related activities. Cash infusion during the construction phase will be the primary short-term economic impact. Upon completion of the project, the economic situation should return to the existing condition.

E. The proposed action does not involve substantial secondary impacts, such as population changes or effects on public facilities:

The proposed project will not directly result in an increase of population in the area but the project will eliminate restriction to growth due to the inadequacy of the existing system. The proposed project will allow development of lands in conformance with the existing Development plan.

XII-1
REASONS SUPPORTING RECOMMENDED DETERMINATION
OCTOBER 1994
F. The proposed action does not substantially affect public health:

Only the short-term impacts have potential for affecting public health. Construction activities will be regulated to minimize noise, dust and exhaust emissions.

G. The proposed action does not involve a substantial degradation of environmental quality:

The existing physical aspects of the surrounding area will be preserved.

H. The proposed action is individually limited and cumulatively, does not have a considerable effect upon the environment or involve a commitment for larger actions:

The proposed action, either individually or cumulatively, will not have a considerable effect on the environment, nor will it involve a commitment to larger actions.

I. The proposed action does not substantially affect rare, threatened or endangered species or habitats:

There are no known rare, threatened or endangered species or habitat associated with the project site.

J. The proposed action does not detrimentally affect air or water quality or ambient noise levels:

Short-term impacts on air and water quality, as well as noise, may occur during the construction period, but will be mitigated by normal construction practices and will be regulated by the project plans and specifications.

K. The proposed action does not affect an environmentally sensitive area such as a flood plain, tsunami zone, erosion-prone area, geologically hazardous land, estuary or coastal waters.

The proposed project is not located in an environmentally sensitive area. The project is not located within a flood plain or within a tsunami zone. The project is not located on unique geologically hazardous lands. It is also not expected to have any significant adverse impacts on fresh or coastal waters.
XIII. LIST OF NECESSARY REVIEW/APPROVALS

A. CITY AND COUNTY OF HONOLULU

1. Department of Public Works
   a. Construction plan approval
   b. Work in County Roads Permit

2. Department of Transportation Services - plan approval

3. Department of Land Utilization
   a. Construction Dewatering Permit (Temporary)
   b. Sewer Connection Permits
   c. Sewer Extension, Oversizing and Relief Sewer Requirements
   d. Sign Permit
   e. Street Usage Permit

B. STATE OF HAWAII

1. Department of Health
   a. Community Noise Control for Oahu, Title 11, Chapter 43
   b. Vehicular Noise Control for Oahu, Title 11, Chapter 42
   c. Fugitive Dust, paragraph 11-60-5, Air Pollution Control, Title 11, Chapter 60
   d. Construction Plan Approval

2. Department of Transportation
   a. Construction plan approval
   b. Work within State R/W Permit
XIV. ORGANIZATIONS AND PERSONS CONTACTED

A. STATE OF HAWAII

1. Department of Accounting and General Services
2. Department of Business, Economic Development and Tourism
3. Department of Education
4. Department of Land and Natural Resources
5. Department of Transportation
6. State Historic Preservation Division
7. Department of Health
8. University of Hawaii
9. U.S. Army Corp of Engineers
10. American Lung Association

B. CITY AND COUNTY OF HONOLULU

1. Board of Water Supply
2. Building Department
3. Department of Land Utilization
4. Department of Public Works
5. Department of Transportation Services
6. Police Department
C. OTHERS

1. AT&T Company
2. Gasco, Inc.
4. Oceanic Cable
5. GTE Hawaiian Tel
6. Kalihi Neighborhood Board
7. Kamehameha Shopping Center
XV. BIBLIOGRAPHY


B. Standard Details for Public Works Construction, City and County of Honolulu, September 1984.


D. Islandwide Sewer Adequacy Study (Hart Street Area), City & County of Honolulu, Dept. of Public Works, Dept. of Wastewater Management, Park Engineering, September 1990.

APPENDIX A

AGENCY CONSULTATION REVIEW LETTERS
<table>
<thead>
<tr>
<th>ORGANIZATION</th>
<th>REPLIED BY</th>
<th>REPLY DATE</th>
<th>COMMENTS</th>
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<tr>
<td>CITY &amp; COUNTY</td>
<td>Letter</td>
<td>11/7/94</td>
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<td>12/2/94</td>
<td>Check Highway crossing elevation</td>
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<td>Dept. of Land Utilization</td>
<td>Letter</td>
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<td>Dept. of Transportation Services</td>
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<td>Show exist. waterlines on plans</td>
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<td>Letter</td>
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<td>State Historic Preservation Division</td>
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<td>Check if SCAP needed</td>
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<td>Dept. of Education</td>
<td>Letter</td>
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<td>No historic sites, call if any found</td>
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<td>Dept. of Health</td>
<td>Letter</td>
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<td>Dept. of Acct. &amp; General Services</td>
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<td>No comments, Neg. Decl. ckyay</td>
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<td>Dept. of the Army (Regulatory Branch)</td>
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<td>12/2/94</td>
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<td>University of Hawaii</td>
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<td>AT&amp;T</td>
<td>Letter</td>
<td>11/30/94</td>
<td>Show underground gas lines</td>
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<td>Gasco</td>
<td>Letter</td>
<td>11/28/94</td>
<td>Show electrical lines, incl. notes</td>
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<td>Hawaiian Electric</td>
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<td>Kamehameha Shopping Center</td>
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</table>
December 14, 1994

Mr. Henry Morita
Akinaka & Associates, Ltd.
250 N. Beretania Street, Suite 300
Honolulu, Hawaii 96817

Dear Mr. Morita:

Subject: Gulick Avenue Relief Sewer

Upon discussion from our December 8, 1994 meeting with your firm and acceptance by the State Department of Transportation (SDOT) (verbal confirmation from a telephone conversation between Akinaka & Associates and SDOT-Planning), the City approves your recommended sewer alignment (Alternate #2 in the 60% PER) for the subject project. As a backup to the verbal approval given by the SDOT, please have them submit for your files and ours a written confirmation letter. We reemphasize that all construction work located within the Likelike roadway area be coordinated with the SDOT.

Should you need further assistance, please call Glenn Okita at 527-5829.

Very truly yours,

JAMES K. HONKE
Chief
Mr. Henry Morita
Akinaka & Associates, Ltd.
250 N. Beretania Street, Suite 300
Honolulu, Hawaii 96817-4716

Dear Mr. Morita:

Subject: Gulick Avenue Relief Sewer, Kalihi
Honolulu, Oahu

Apparently, our letter, HWY-PS 2.3537 dated November 14, 1994, has been misinterpreted to mean that we will not allow the construction of a sewer line along Likelike Highway. This is not correct.

Instead, we want the City to closely coordinate the design and installation of the Gulick Avenue Relief Sewer line with our Highways Division. This action is important to prevent future conflicts with possible highway improvements along Likelike Highway in the same vicinity as the proposed sewer line.

Very truly yours,

T. HARANO
Chief
Highways Division
Mr. Henry Morita, Executive Vice President
Akinaka & Associates, Ltd.
Consulting Engineers
250 North Beretania Street, Suite 300
Honolulu, Hawaii 96817-4716

Dear Mr. Morita:

SUBJECT: Pre-Assessment for an Environmental Assessment: Gulick Avenue
Relief Sewer: Akinaka & Associates, Ltd., Kalihi, Honolulu, Oahu

The following are our additional comments on the subject project which supplement those forwarded by our previous letter dated December 7, 1994:

Commission on Water Resource Management

The Commission on Water Resource Management's (CWRM) staff comments that if the proposed project will alter the bed or banks of stream channels, the applicant must obtain an approved Stream Channel Alteration Permit (SCAP) pursuant to Section 13-169-50, Hawaii Administrative Rules (HAR) before project implementation.

For more information regarding CWRM's permit requirements relating to streams, the applicant should call 587-0249.

We have no other comment to offer at this time.

Please feel free to call Steve Tagawa at our Office of Conservation and Environmental Affairs, at 587-0377, should you have any questions.

Very truly yours,

[Signature]

KEITH W. AHEE
Mr. Henry Morita, Executive Vice President
Akinaka & Associates, Ltd.
Consulting Engineers
250 North Beretania Street, Suite 300
Honolulu, Hawaii 96817-4716

Dear Mr. Morita:

SUBJECT: Pre-Assessment for an Environmental Assessment: Gulick Avenue Relief Sewer; Akinaka & Associates, Ltd., Kalihi, Honolulu, Oahu

We have reviewed the Pre-Assessment information for the subject project transmitted by your memorandum dated October 26, 1994, and reiterate our Historic Preservation Division comments previously sent directly to you.

We have no other comments to offer at this time.

Please feel free to call Steve Tagawa at our Office of Conservation and Environmental Affairs, at 587-0377, should you have any questions.

Very truly yours,

KEITH W. AHIE
KEITH W. AHIE
December 2, 1994

Mr. Henry S. Morita
Executive Vice President
Akinaka & Associates, Ltd.
250 N. Beretania Street, Suite 300
Honolulu, Hawaii 96817-4716

Dear Mr. Morita:

Comments to Proposed Gulick Avenue Relief Sewer
Tax Map Keys: 1-3-17, 18, 24, 25, 26

Based on the location of the sewer line as shown on the Location Map, the line along Likelike Highway crossing Kalihi Stream is located in a Floodway District. The sewer line should be designed so that it does not increase the base flood elevation. The line should be flood-proofed if it will be located below the base flood elevation. We would like to review the Preliminary Draft Environmental Assessment when it becomes available. Thank you for the opportunity to comment.

If you have any questions regarding the flood requirements, please contact Robert Sumitomo of our staff at 523-4254. Dana Teramoto of our staff can answer any other questions regarding this letter at 523-4648.

Very truly yours,

Donald Clegg
DONALD A. CLEGG
Director of Land Utilization
November 30, 1994

Akinaka and Associates, Ltd.
250 North Beretania Street
Suite 300
Honolulu, Hawaii 96817-4716

Attention: Mr. Henry S. Morita

Gentlemen:

Subject: Environmental Assessment for Gulick Avenue Relief Sewer
Kaliihi, Honolulu, Hawaii

Please be advised that BHP Gas Company maintains an underground utility gas main in the project vicinity, which serves customers in the area and is interconnected with the utility network in Kaliihi. We would appreciate your consideration during the project planning and design process to minimize any potential conflicts with the existing gas facilities in the project area.

Attached are gas map numbers 1-3-26, 27 and 28, 1-6-27 and 28 as requested.

All information provided by BHP Gas Company, including but not limited to maps, prints, and site indications are approximations only of its facilities and its pipelines. The party receiving such information shall have the sole responsibility for field verification to determine the actual locations of such facilities and pipelines.

Should there be any questions, or if additional information is desired, please call me at 594-5574.

Very truly yours,

THE GAS COMPANY

Keith K. Yamamoto
Supervisor, Engineering

Attachment: Plans
November 28, 1994

Mr. Harry S. Morita
Akinaka & Associates
250 North Beretania Street, Suite 300
Honolulu, HI 96817-4716

Attention: Henry Morita

Re: Gulick Avenue Relief Sewer

HECO Request No: 193273

This is in response to your letter of October 26, 1994, regarding the subject project.

Attached for your use as requested are copies of our "as-built" drawings and/or documents (18923, 20454, 20470, 35529, & 77199) of our underground electrical facilities in the area of your project. We have also provided you with a copy of our "HECO Notes".

Please note that it is your responsibility to verify Hawaiian Electric's surface electrical facilities (i.e.: poles, overhead lines, anchors, guy lines, manholes, handholes, etc.).

We request that all of the above information (HECO's overhead and underground facilities as well as our HECO Notes) be included on your plans and have two sets of your pre-final drawings forwarded to us for our review and files.

Please direct all future correspondence to me referring to the HECO Request Number shown above. Should you have any questions, I may be reached at 543-4489.

Sincerely,

[Signature]

Dennis J. Freitas
Records Management Coordinator
Distribution Engineering Dept.
HECO NOTES

Location of HECO Facilities

The location of HECO’s overhead and underground facilities shown on the plans are from existing records with varying degrees of accuracy and are not guaranteed as shown. The Contractor shall exercise extreme caution whenever construction crosses or is in close proximity of underground lines and shall maintain adequate clearance when operating equipment within or under any overhead lines.

Compliance with DOSH

The contractor shall comply with the State of Hawaii’s Occupational Safety and Health Law (DOSH).

Excavation Permit

The Contractor shall obtain an excavation permit from HECO’s Mapping and Records Division located at 820 Ward Avenue, 4th floor, two weeks prior to starting construction. Please refer to our request number at that time.

Underground Lines

For verification of underground lines or for assistance in supporting and protecting these lines, the Contractor shall call HECO’s Underground Division at 543-7345 a minimum of 72 hours in advance.

Excavations

When trench excavation is adjacent to or beneath our existing structures or facilities, the Contractor is responsible for:

a) Sheeting and bracing the excavation to prevent slides, caves, and settlements.

b) Protecting existing structures or facilities with beams, struts, or under-pinnings.

Pole Bracing

For pole bracing instructions, the Contractor shall call the HECO District Superintendent at (Koolau/261-6085, Waiau/543-4223, Ward/543-7743) a minimum of 72 hours in advance.

Relocation of HECO Facilities

Any work required to relocate HECO facilities shall be done by HECO and the Contractor shall be responsible for all coordination, and for possible costs if applicable.
Temporary Relocation of HECO Facilities

Should it become necessary to temporarily relocate any of HECO facilities to enable the Contractor to perform his work in a safe and expeditious manner in fulfilling his contact obligations, these temporary relocations will be done by HECO, or by the Contractor under HECO’s supervision, with all costs borne by the Contractor.

Unforeseen Conflicts

Any unforeseen conflict that would result in the redesign or relocation (either temporary or permanent) of HECO’s electrical facilities may be cause for lengthy delays. To avoid such delays, the contractor must notify HECO of the conflict a minimum of 30 days prior to the start of construction.

Damage to HECO Facilities

Any damage to HECO’s facilities will be reported immediately to HECO’s Trouble Dispatcher at 543-7874.

Liability for Damages to HECO Facilities

All HECO overhead and underground facilities shall be protected at all times by the Contractor during construction. Costs for damages to HECO facilities shall be borne by the Contractor. This repair work shall be done by HECO, or by the Contractor under HECO’s supervision.

Indemnity

The Contractor shall indemnify, defend and hold harmless HECO from and against all losses, damages, claims and actions, all expenses incidental to such losses, damages, claims or action, based upon or arising out of damage to property or injuries to persons, or other tortious acts caused or contributed to by Contractor or anyone acting under its direction or control or on its behalf; provided Contractor’s indemnity shall not be applicable to any liability upon the sole negligence of HECO.
November 25, 1994

Mr. Henry S. Morita
Executive Vice President
Akinaka & Associates, Ltd.
250 North Beretania Street, Suite 300
Honolulu, Hawaii 96817-4716

Dear Mr. Morita:

Subject: Gulick Avenue Relief Sewer
Preliminary Draft Environmental Assessment
THK: 1-3-17: 18. 24 to 26

This is in response to your letter dated October 26, 1994 requesting our preliminary comments on the proposed sewer project.

Our primary concern regarding the project will be its impact on existing traffic conditions during construction. Construction plans and a traffic control plan should be submitted to our department for approval for all work within the City's right-of-way.

Should you have any questions, please contact Lance Watanabe of my staff at 523-4199.

Sincerely,

JOSEPH M. MAGALDI, JR.
Director
DEPARTMENT OF THE ARMY
U.S. ARMY ENGINEER DISTRICT, HONOLULU
 FT. SHAFTER, HAWAII 96856-5440

November 23, 1994

Planning Division

Mr. Henry S. Morita
Executive Vice President
Akinaoka and Associates, Ltd.
250 North Beretania Street, Suite 300
Honolulu, Hawaii 96817-4716

Dear Mr. Morita:

Thank you for the opportunity to review and comment on the Preliminary Draft Environmental Assessment for the Gulick Avenue Relief Sewer, Kalihi, Oahu (TMK 1-3-17, 18, 24, 25, and 26). The following comments are provided pursuant to Corps of Engineers authorities to disseminate flood hazard information under the Flood Control Act of 1960 and to issue Department of the Army (DA) permits under the Clean Water Act; the Rivers and Harbors Act of 1899; and the Marine Protection, Research and Sanctuaries Act.

a. Our Regulatory Branch staff is currently reviewing the document and will provide their comments to your office under separate cover.

b. According to the enclosed Federal Emergency Management Agency's Flood Insurance Rate Map, panel number 150001 0112C dated September 28, 1990, the project site is located in Zone X (unshaded; areas determined to be outside of the 500-year floodplain) and the Floodway Area designated as Zone AE (areas inundated by the 100-year flood with a base flood elevation of 130 to 137 feet above mean sea level).

Sincerely,

Ray H. Jyo, P.E.
Director of Engineering

Enclosure
Mr. Henry S. Morita  
Executive Vice President  
Akinaka and Associates, Ltd.  
250 North Beretania Street, Suite 300  
Honolulu, Hawaii 96817-4716  

Dear Mr. Morita:  

Subject: Gulick Avenue Relief Sewer  
Kalihi, Honolulu, Hawaii  
Pre-Environmental Assessment Consultation  

Thank you for the opportunity to comment on the subject action. Since we have no comments to offer and would have no objection to a negative declaration being filed for this project, it is not necessary for us to receive a copy of the Preliminary Draft Environmental Assessment.  

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 Works Engineer  

RY:jk
November 18, 1994

Mr. Henry S. Morita
Executive Vice President
Akinaka & Associates, Ltd.
250 North Beretania Street, Suite 300
Honolulu, Hawaii 96817-4716

Dear Mr. Morita:

Subject: Gulick Avenue Relief Sewer

Kaliihi, Honolulu, Oahu
TNK: 1-3-17: 18, 24, 25, 26

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

Wastewater

We have no objections to the proposed study encompassing alternatives for sewer relief along Gulick Avenue. We are always pleased with improvements to the existing sewer system and encourage alternatives and improvements. The Department of Health’s ultimate goal is to see, not only Oahu, but someday the entire state severed where no on-site disposal is utilized.

All wastewater plans must conform to applicable provisions of the Department of Health’s Administrative Rules, Chapter 11-62, "Wastewater Systems." and we reserve the right to review the detailed wastewater plans.

Should you have any questions on this matter, please contact Ms. Lori Kajiwara of the Wastewater Branch at 586-4290.

Water Pollution

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

1. Storm water discharges relating to construction activities for projects equal to or greater than five acres;
Mr. Henry A. Morita  
November 18, 1994  
Page 2

2. Storm water discharges from industrial activities;
3. Construction dewatering activities;
4. Cooling water discharges less than one million gallons;
5. Ground water remediation activities; and
6. Hydrotesting water.

Any person wishing to be covered by the NPDES general permit for any of the above activities should file for 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.

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

Sincerely,

[Signature]

Peter A. Sybinsky, Ph.D.
Director of Health

Cc: WWB
    CWB
November 15, 1994

Mr. Henry S. Morita
Executive Vice-President
Akinaka & Associates, Ltd.
250 North Beretania Street, Suite 300
Honolulu, Hawaii  96817-4716

Dear Mr. Morita:

SUBJECT: Gulick Avenue Relief Sewer
Kalihi, Honolulu, Hawaii

We have reviewed the map showing location and limits of the subject project and have determined that the proposed project will have no impact on the schools in the area.

Thank you for the opportunity to comment.

Sincerely,

Herman M. Aizawa, Ph.D.
Superintendent

cc: A. Suga
November 15, 1994

Mr. Henry S. Morita
Executive Vice President
Akina and Associates, Ltd.
250 North Beretania Street, Suite 300
Honolulu, Hawaii 96817-4716

Dear Mr. Morita:

Subject: Your Letter of October 26, 1994 Requesting Comments on the Gulick Avenue Relief Sewer, Kalehi, Honolulu, Hawaii

Thank you for the opportunity to review and comment on the subject project.

We provide the following comments:

1. The location of existing and proposed Board of Water Supply (BWS) waterlines should be indicated on the construction plans and addressed in the preliminary draft environmental assessment (DEA) to ensure the protection and integrity of our water system.

2. We request a copy of the DEA and construction plans for our review.

3. If water is required during construction, all connections to the BWS system will require BWS approved reduced pressure principle backflow prevention assemblies.

We reserve further comment until we review the DEA.

If there are any questions, please contact Barry Usagawa at 527-5235.

Very truly yours,

KAZU HAYASHIDA
Manager and Chief Engineer

Pure Water... man's greatest need - use it wisely
Mr. Henry S. Morita  
Executive Vice President  
Akinaka & Associates, Ltd.  
250 N. Beretania Street, Suite 300  
Honolulu, Hawaii 96817-4716

Dear Mr. Morita:

Subject: Gulick Avenue Relief Sewer, Kalihi  
Honolulu, Oahu

Please be aware that we will soon be conducting a study of proposed highway improvements along Likelike Highway in the same vicinity as your proposed sewer line. The study will also include the intersection of Likelike Highway with Kalihi and Makuahine Streets.

All plans for construction work within the State highway right-of-way must be submitted to the State Highways Division for our review and approval.

Very truly yours,

T. HARANO  
Chief  
Highways Division
STATE OF HAWAI'I  
DEPARTMENT OF LAND AND NATURAL RESOURCES  
November 10, 1994  

Mr. Henry S. Morita  
Executive Vice President  
Akinaka & Associates, Ltd.  
250 N. Beretania Street, Suite 300  
Honolulu, Hawaii  96817-4716  

Dear Mr. Morita:  

SUBJECT: Gulick Avenue Relief Sewer, Kapalama O'ahu  
Kapalama, Kona, O'ahu  

Thank you for the opportunity to review the site plans for the environmental assessment being prepared for the Gulick Avenue Sewer Relief project. A review of our records shows that there are no known historic sites at the parcels along the "Alternate 2" route. Although no archaeological inventory survey has been conducted along this urbanized section of Kalihi it is unlikely that surface historic sites remain. Therefore, we believe that this project will have "no effect" on significant historic sites.  

It is possible that historic sites, including human burials, will be uncovered during routine construction activities. Should this be the case all work in the vicinity must stop and the Historic Preservation Division must be contacted at 587-0047.  

Sincerely,  

Don Hibbard, Administrator  
Historic Preservation Division  

EJ: jk
Mr. Henry S. Morita  
Executive Vice President  
Akinaka & Associates, Ltd.  
250 North Beretania Street, Suite 300  
Honolulu, Hawaii 96817-4716

Dear Mr. Morita:

Subject: Pre-Environmental Assessment (PEA)  
Gulick Avenue Relief Sewer  
TMK: 1-3-17, 18, 24, 25 and 26

We have reviewed the subject document and have no comments to offer at this time.

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

Very truly yours,

KENNETH E. SPRAGUE  
Director and Chief Engineer
November 1, 1994

Akinaka & Associates, Ltd.
250 North Beretania Street, Suite 300
Honolulu, Hawaii 96817-4716

Gentlemen:

Subject: Gulick Avenue Relief Sewer
Kaliihi, Oahu, Hawaii

The subject project does not impact any of our facilities; therefore, we have no comments to offer. Thank you for informing us of this future project.

Very truly yours,

W. F. Remular
Acting Director and
Building Superintendent

cc: G. Tamashiro