

2005-11-23-0A-~~FEA~~ PETERSON LANE AND PUA LANE SEWER RESTORATION

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**FINAL ENVIRONMENTAL ASSESSMENT
SMALL MAINLINE PROJECTS (SMPR) AND
LATERAL SMALL PROJECTS (LSPR)
PETERSON LANE SEWER REHABILITATION, SMPR 92
PUA LANE SEWER REHABILITATION, SMPR 93
CONTRACT F84571**

**PREPARED FOR:
CITY AND COUNTY OF HONOLULU
DEPARTMENT OF DESIGN AND CONSTRUCTION
650 SOUTH KING STREET, 11TH FLOOR
HONOLULU, HAWAII 96813**

RESPONSIBLE OFFICER: *Wayne Hashiro* **DATE** 10/27/05
for **Wayne Hashiro, P.E., Director
Department of Design and Construction
City and County of Honolulu**

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OCTOBER 2005

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PREFACE

This Draft Environmental Assessment has been prepared in conformance with the requirements of Chapter 343, Hawaii Revised Statutes (HRS). The City and County of Honolulu, Department of Design and Construction (DDC) proposes to rehabilitate sewer lines within Peterson Lane, Pua Lane and North King Street located in Palama, Honolulu, Oahu. The proposed project involves rehabilitation by reconstruction or replacement with a new sewer system and the use of City and County of Honolulu funds and therefore, requires the preparation of an Environmental Assessment pursuant to Chapter 343, HRS.

PROJECT SUMMARY

PROJECT: Small Mainline Projects (SMPR) and Lateral Small Projects (LSPR)
Peterson Lane Sewer Rehabilitation, SMPR 92
Pua Lane Sewer Rehabilitation, SMPR 93
Palama, Honolulu, Oahu

APPLICANT: City and County of Honolulu
Department of Design and Construction

**ACCEPTING
AUTHORITY:** City and County of Honolulu
Department of Design and Construction

TAX MAP KEY: 1-6-01, 1-7-29, 1-7-31

LAND OWNER: City and County of Honolulu and various private landowners

EXISTING USE: Public and Private Streets

**STATE LAND USE
CLASSIFICATION:** Urban District

**COUNTY ZONING
DESIGNATION:** N/A

**PROPOSED
ACTION:** The City and County of Honolulu, Department of Design and Construction proposes to rehabilitate sewer line within Peterson Lane, Pua Lane and North King Street by reconstruction or replacement. The project seeks to address structural and hydraulic deficiencies.

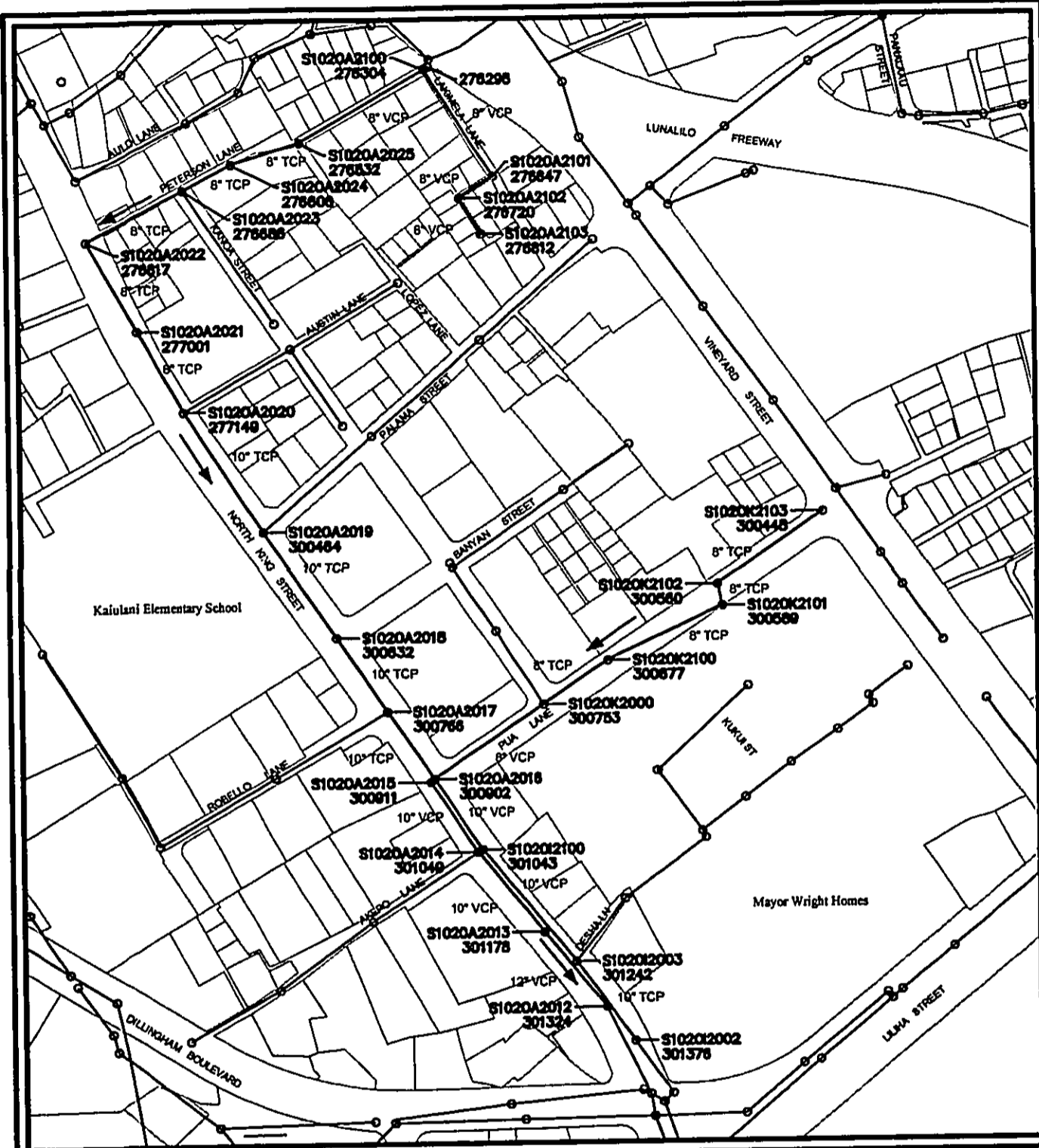
DETERMINATION: Finding of No Significant Impact (FONSI)

1. INTRODUCTION

The City and County of Honolulu, Department of Design and Construction proposes to rehabilitate approximately 4,800 feet of sewer lines servicing a residential and commercial area of Palama in Honolulu, Island of Oahu (See **Figure 1.1: Project Location**). The residential areas served by the sewer lines are along Lakimela, Peterson and Pua Lanes and the commercial area fronts North King Street as shown on **Figure 1.2: Sewer Line Map**. The existing 8-inch to 12-inch diameter sewer resides under asphalt concrete roadways. Available construction plans of the sewer lines indicate the lines are aged (Pua Lane – 1927) and consists of terra-cotta (TCP) and vitrified (VCP) clay pipe.

The proposed sewer line rehabilitation project addresses structural and hydraulic deficiencies. A Design Alternative Report (August 2004) was completed in support of the proposed sewer improvements. The recommended alternative involves no action on a portion of the system (Lakimela Lane and a section on North King Street) and relocation of the remainder of the system by open cut trenching.

The proposed sewer rehabilitation will improve sewer maintainability by eliminating structural deficiencies (broken pipe, offset joints, pipeline sags, and manhole defects) and provide hydraulic capacities required for the present and future population. The rehabilitation project design will be based on geotechnical engineering recommendations to minimize potential ground settlement and movement in relation to soil consolidation and dewatering.



LEGEND:

	Project Sewer Lines		Flow Direction
	Existing Sewer Lines	S1020A2012	Manhole ISAP No.
	Existing Manhole	301324	Manhole Sewer ID No.

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**City & County
of Honolulu**
 Department of
 Design & Construction

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 Project Site
 SCALE: 1" = 300'

SEWER LINE MAP
 Peterson Lane Sewer Rehabilitation,
 SMPR 92 & Pua Lane Sewer
 Rehabilitation, SMPR 93
Waterworks Division Date: Nov 2004

FIGURE 1.2

2. PROJECT DESCRIPTION

2.1 LOCATION

The project is located in the Palama neighborhood adjacent and west of downtown Honolulu and mauka of the Iwilei area. The project area consists of single family residences (Lakimela and Peterson Lanes), multi-family complexes (Pua Lane) and commercial establishments (North King Street). The project is within Tax Map Keys (TMK) 1-6-01, 1-7-29 and 1-7-31.

The sewer lines are located under asphalt concrete roadways which are City maintained. North King Street (4 lanes, left-turn pockets, parking) is a major thoroughfare and links downtown Honolulu to the Kalihi/Palama area. Pua Lane (4 lanes, parking) connects Vineyard and North King Street and services the Mayor Wright Homes – a large government housing project. Peterson and Lakimela Lanes (2 lanes, no shoulders) are sub-standard residential streets with limited access.

2.2 BACKGROUND

The City and County of Honolulu, Department of Design and Construction proposes to rehabilitate approximately 4,800 feet of sewer lines located in the Palama neighborhood in Honolulu, Oahu. The sewer lines consisting of aged terra cotta and vitrified clay pipes are located under asphalt concrete streets as noted above.

The project includes sewer lines that require high maintenance frequencies (1 to 4 months) to avoid spills and by passes. The CSM Monthly Spill Report (1992 – 2002) includes five incidents of reported wastewater spills caused by grease blockages – four incidents on Peterson Lane. Additionally, all sewer lines in Pua Lane and North King Street are identified as high maintenance lines. During maintenance operations to clear roots, grease and debris, extreme care is required to prevent further damages due to the fragileness of the line.

The Department of Environmental Services, Division of Collection System Maintenance (CSM) has reported two instances of roadway failure in the neighborhood (North King Street and Robello Lane) as a result of undermining caused by breaks in the line. Also, major inflow on Dillingham Boulevard, makai of the project, has been reported.

2.3 LAND OWNERSHIP

All roadways housing the sewer lines are City owned except for Peterson and Lakimela lanes. These lanes are privately owned by the abutting residents. The City has easements over the entire right-of-way.

2.4 EXISTING SEWER LINE

A CCTV inspection of the project sewer lines was performed in November/December 2003. All sewer lines were cleared and televised for inspection. Videos were recorded with in-situ observations by a trained camera operator, and then ratified by the CCTV administrator. The recorded conditions confirm that the entire project sewer lines (with exceptions) must be structurally rehabilitated or replaced.

The exceptions are the sewer lines in Lakimela Lane and the makai sewer line of the parallel lines on North King Street east of Pua Lane which appeared to be satisfactory.

Cracks and sags are numerous and broken pipes (with missing pieces) are common in the terra cotta pipes. Many sections of the vitrified clay pipe also contained cracks and sags. Sections of both pipe types included offset joints and grease accumulation. The CCTV camera passage was blocked at two sites – on Peterson Lane (mauka of Kanoa Street) and on North King Street (west of Banyan Street).

There are 26 manholes in the project of which seven are standard concrete construction and the remainder is of brick construction. The concrete manholes are in good condition and located in Lakimela Lane and the makai sewer line. The brick manholes have minor to moderate defects including a North King Street manhole (at Robello Lane) that operates without an invert slab.

Many laterals were capped at the sewer main as the project area re-developed. Several laterals are abandoned without capping as evidenced by accumulated debris – two laterals on Pua Lane house rodents. Laterals on Peterson Lane, North King Street and Pua Lane require reconstruction near the sewer main joint. A few laterals exhibit accumulated grease and three laterals had continuous clear flows during the CCTV inspection. Two of these (vic. Desha Lane) are below groundwater while the other (vic. Austin Lane) is well above groundwater.

2.5 SURROUNDING USES

The project site is located in a multi-use area of single family, multi-family, business and government facilities. **Figure 2.1: Land Use Map** based on field observations, show the existing use (activity or facility) of parcels adjacent to the sewer lines. The existing land uses generally conforms to the City zoning designation shown on **Figure 2.2: Zoning Map**. Zoning designation are:

- BMX-3 Community: Businesses on North King Street
- A-2 Apartment: Mayor Wright Homes, Pua Lane apartments
- R-5 Residential: Peterson & Lakimela Lanes houses

- IMX-1 Industrial Mixed Use: Kaiulani Elementary School
- P-2 General: Kanoa Street Mini Park

2.6 PROPOSED ACTION

The objectives of the proposed sewer rehabilitation project are:

- Correct structural deficiencies
- Provide for existing hydraulic capacities
- Reduce the maintenance requirements
- Eliminate wastewater spills
- Reduce infiltration (and wastewater flows)

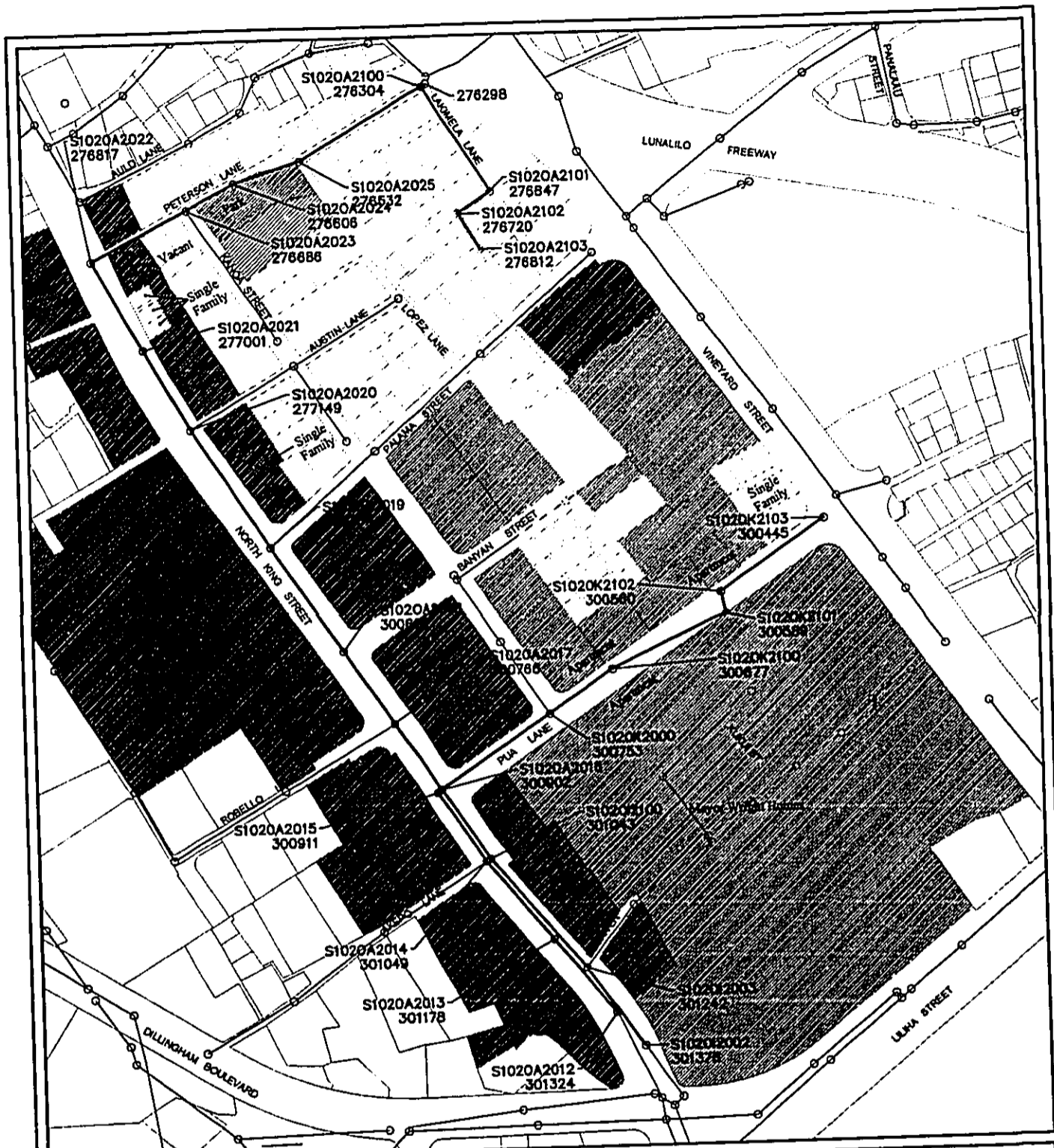
A Design Alternatives Report was completed for the proposed sewer improvements. The recommended action consists of sewer line installation by open cut trenching. Numerous lateral connections and manhole replacements increase the open trenching operations. *Local contractors are familiar with this method of construction and will provide for greater competitive bidding.*

The proposed project should consider the following design and construction features:

- Design must consider maintaining sewer flows during construction
- Construction should minimize disruptions to existing businesses and peak hour traffic by night work.
- Construction in the residential area should include actions to mitigate noise and dust problems and not impede traffic movements.
- Design and construction must consider trench support and groundwater drawdown during excavation to mitigate soil movement or consolidation.

2.7 PROJECT SCHEDULE AND COST

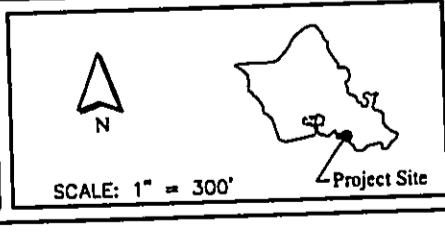
Construction of the proposed project is anticipated to commence in the last quarter of 2005 with project completion within 18 months. The estimated project construction cost is \$2,600,000.



	SINGLE FAMILY		Project Sewer Lines
	MULTI-FAMILY RESIDENTIAL		S1020A2012 Manhole ISAP No.
	COMMERCIAL		301324 Manhole Sewer ID No.
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City & County of Honolulu
 Department of Design & Construction



LAND USE MAP
 Peterson Lane Sewer Rehabilitation,
 SMPR 92 & Pua Lane Sewer Rehabilitation, SMPR 93
 Date Nov. 2004

FIGURE 2.1

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 SCALE: 1"=1'



LEGEND:

	R-5 RESIDENTIAL		Project Sewer Lines
	A-1 APARTMENT		Flow Direction
	A-2 APARTMENT		S1020A212 301324 Manhole ISAP No.
	BMX-3 COMMUNITY BUSINESS		301324 Manhole Sewer ID No.
	IMX-1 INDUSTRIAL MIXED USE		
	GENERAL PRESERVATION		

**City & County
 of Honolulu**
 Department of
 Design & Construction

SCALE: 1" = 300'

Project Site

ZONING MAP
 Peterson Lane Sewer Rehabilitation,
 SMPR 92 & Pua Lane Sewer
 Rehabilitation, SMPR 93

Waterworks Division
 Date Nov 2004

FIGURE 2.2

3. DESCRIPTION OF THE AFFECTED ENVIRONMENT

3.1 CLIMATE

Maximum daily temperatures range from the high 70s in the winter to the high 80s in the summer. Minimum daily temperatures vary from the low 60s in the winter to the low 70s in the summer.

Rainfall at the project site is relatively low, about 25 to 30 inches per year. Generally, about 50 percent of the total annual rainfall occurs during the three wettest months (December, January and February).

The prevailing northeasterly trade winds account for about 60 percent of the winds affecting the island of Oahu. The mean monthly wind velocity varies between 10 and 15 miles per hour.

3.2 AIR QUALITY

Air quality at the project area is primarily affected by vehicular emissions and fugitive dust from the roadways. North King Street, Liliha Street, and Vineyard Boulevard are major roads that carry heavy volumes of the traffic. The northeast trade winds that predominate throughout the year blow pollutants from inland areas out to sea. Problems with poor air quality are more likely to occur when trade winds diminish or give way to southerly (Kona) winds.

Generally, air quality in the vicinity of the project area is considered to be good and meets National Ambient Air Quality Standards (NAAQS) and State Ambient Air Quality Standards (SAAQS). The State Department of Health monitors air quality at selected locations throughout the State. The Downtown Honolulu monitoring station, which measures the volume of particulate matter, and the Sand Island monitoring station, which only monitors ozone levels, are located nearest the project site and data from both stations indicate that air quality is well within Federal and State Standards.

3.3 TOPOGRAPHY

The project site is a flat alluvium plain with surface slopes varying between 2% to 4%. Ground surface elevations vary between 17 to 21 feet (MSL). The surface of entire project area has been disturbed and graded for improvements consistent with urbanization.

3.4 SOILS

The project site is underlain by soils of the Ewa Series. These soils developed in alluvium derived from basic igneous rock, classified as Ewa Silty

Clay loam, moderately shallow, 0 to 2 percent slopes (EmA). Runoff is very slow and the erosion hazard is no more than slight. (Reference – Soil Survey of the Islands of Kauai, Oahu, Maui, Molokai and Lanai, State of Hawaii by USDA, SCS, August 1972)

Preliminary findings of a subsurface investigation by Fewell Geotechnical Engineering, Ltd. included discussions that the subsurface conditions should provide adequate support for the replacement sewer lines. Test borings generally encountered clayey silt over coral debris with weathered basalt foundation in the eastern portion of the project.

3.5 GROUNDWATER

The aquifer underlying the project area is the Kalihi Aquifer of the Honolulu aquifer sector (Department of Land and Natural Resources aquifer classification system). Test borings during August 2004 exhibited no obvious indications of flowing water due to a subsurface stream. However a boring at the center of the project showed a ground water elevation eight (8) feet above the borings on each side. This may represent a perched water condition resulting in lateral subsurface flows due to the differential water elevations. No voids, cavities or other features which may result in the formation of sinkholes were noted in any of the test borings.

3.6 FLOOD PLAIN

The project area is classified as "Other Areas – Zone X: Areas determined to be outside the 500 – year flood plain" per the Flood Insurance Rate Map (FIRM), Parcel 115 of 135 for the City and County of Honolulu, Hawaii. Local drainage systems are located on North King Street (southerly of Desha Lane) and on Pua Lane (between North King Street and Kanoa Street).

3.7 FLORA AND FAUNA

The project site, being asphalt concrete roadways are devoid of floral resources. The surrounding area consist of dense urban developments that provide little habitable areas. Only a small variety of plant life, characterized by grass lawns and boundary shrubs/hedges can be found in the vicinity.

Faunal resources are limited to mammals and birds that have adapted to the urban environment. Rats, mice, cats and dogs are common. Avifauna species are those found in urban environments such as mynah, barred dove, house sparrow, bulbul and spotted dove.

3.8 NOISE

Noise levels at the project site are primarily the result of vehicular traffic. Occasionally, existing business operations, school yard activities and/or church productions affect the noise level. Normally the peak hour traffic noise is the highest level but vehicle operators can impact the level by racing their engines and hurried acceleration.

3.9 ARCHAEOLOGICAL/CULTURAL

No archaeological or cultural resources are believed to be present at the site due to highly developed nature of the project area.

3.10 SOCIO-ECONOMIC

The proposed project will affect the occupants of the adjacent parcels and commuting traffic. Open cut trenching operations may restrict access and cause traffic to detour around the area. Police, fire and emergency medical services are provided by City agencies stationed in proximity of the project area.

3.11 INFRASTRUCTURE/UTILITIES

Vehicular access to the project area is primarily through North King Street or Vineyard Boulevard. North King Street is a highly traveled street connecting the Kalihi area to downtown Honolulu. Vineyard Boulevard is a major divided highway connecting the H-1 Freeway to downtown Honolulu. Major intersections in the vicinity are North King Street/Dillingham Boulevard and Vineyard Boulevard/Liliha Street.

The project area is serviced by overhead power and telephone lines. Parcels on North King Street are serviced by underground telephone cables. Major Hawaiian Electric Company transmission lines are not located on the area poles. Telephone service (Verizon Hawaii) and cable service (Oceanic Time Warner) share the overhead system. A topographic survey was performed to delineate the utility lines within the project site.

Underground utilities through the site are gas, water and sewer. The Gas Company distribution pipelines (1" to 4" diameter) reside in all project roadways. The parcels within the project site receive water service from the Honolulu Board of Water Supply. Pua Lane and North King Street serve as the route for the water transmission system. Parcels within the project site are served by the City's wastewater system – there are no individual wastewater systems, such as cesspools or septic tanks.

4. IMPACT AND MITIGATION MEASURES

4.1 CLIMATE

No impacts/mitigation measures are anticipated.

4.2 AIR QUALITY

Short term construction related impacts are anticipated. Generation of dust and exhaust emissions from construction vehicles and equipment will be mitigated by the Contractor in compliance with the State Department of Health, Administrative Rules, Title 11, Chapter 60, "Air Pollution Control" mitigation measures may include:

- Providing adequate water for dust abatement
- Controlling dust from shoulders and travel routes
- Controlling dust from excavation and hauling
- Providing dust control measures during off-hours and weekends
- Planning activities to minimize dust generation during winter periods.

Exhaust emissions should be relatively small and are anticipated to have negligible impacts on the project area air quality. With adequate dust control measures, the air quality will not be significantly impacted by construction activities. The open cut trenching alternative avoids the resin odors from the CIPP process.

4.3 TOPOGRAPHY

The open cut trenches will be filled and re-paved to match existing grade. No adverse impacts to the topography are anticipated as a result of the project.

4.4 SOILS

The proposed sewer reconstruction involves open cut trenching for the pipeline installation. Adequate trench support will be employed during excavation to minimize potential ground settlement and movement. The area is not within erosion-prone or geologically hazardous lands. Excavation and backfill activities will comply with City ordinance and standards for appropriate erosion control measures. If the excavated area is equal to or greater than one acre of land area, an NPDES permit is required before commencement of construction activities.

No adverse impacts to the surrounding soils at the project site are anticipated.

4.5 GROUNDWATER

Groundwater was encountered in all mine soil sampling borings. In most areas, the groundwater level was 8' to 12' below the future sewer pipeline. On King Street, between Banyan Street and Liliha Street, the groundwater level was 2' to 4' below the future sewer pipeline. No impacts from groundwater associated concerns are expected.

4.6 FLOOD PLAIN

The ground surface will be returned to existing grade and paved to match existing surface elevations. There should be no impact to flooding of the project site or surrounding area due to the construction of the project.

4.7 FLORA AND FAUNA

Implementation of the project will not require clearing of any existing vegetation. No loss of natural habitat will occur as a result of the project. No significant impact is anticipated as there are no known threatened or endangered species of flora and fauna inhabiting the highly altered urban environment of the project site.

4.8 NOISE

It will be the Contractor's responsibility to minimize noise by proper equipment maintenance and installation of noise attenuating equipment, such as mufflers. The Contractor must comply with the provisions of the State Department of Health Administrative Rules, Title 11, Chapter 46, "Community Noise Control". Noise impacts from the construction activities will be unavoidable due to the nature of the project.

The impact of the equipment noise will be diffused by the heavy traffic noise in the area. No long term noise impacts are anticipated as the present noise levels due to existing uses in the project area are expected to continue.

4.9 ARCHAEOLOGICAL/CULTURAL

The project area was developed with the growth of downtown Honolulu. This area housed immigrant families that supplied the workforce in Honolulu and did not experience the economic prosperity similar to the area east of River Street. The area remained a tenement housing section of Honolulu until the government and private agencies redeveloped the area into low income housing and multi-family units. The character of the project area remains with commercial and community features along the main thoroughfares and dense housing in the interior. Media articles of the area are usually focused on prostitution, drug

dealing and the homeless. The community has recently adopted socio-economic programs (Weed & Seed, Kalihi-Palama Community Council, Kalihi-Palama Action Plan, etc.) for betterment of the area.

It is unlikely that significant historic/cultural sites are present in the project site due to urbanization of the area. However, in the event that historic remains are encountered during construction activities, work will cease immediately and the State Department of Land and Natural Resources, Historic Preservation Division shall be immediately contacted to assess its significance and recommend appropriate mitigation measures.

No impacts to historic/cultural resources are anticipated, as previous development and present use of the project site precludes the presence of any significant resource. The proposed action will not affect access to gathering areas or impact cultural practices within the project area.

4.10 SOCIO – ECONOMIC

The project may involve short term impacts to businesses and residential uses such as business interruptions, pedestrian and traffic delays, and driveway access problems. Business interruptions may include temporary infrastructure (utility) blockages.

Impacts of construction activities to businesses can be mitigated by scheduling work at night on North King Street. Early and frequent communications can mitigate residential owners concerns of pedestrian, traffic and driveway access impacts by temporarily covering open trenches with steel plates to allow passage.

There are no adverse long-term socio-economic impact anticipated due to the completion of the project.

4.11 INFRASTRUCTURE/UTILITIES

The project design addresses the significance of the existing infrastructure and utilities. The sewer line route will be selected to minimize disturbance to utility conduits and structures. Utility agencies will review and approve the construction plans, specifications and schedule to avoid conflicts and coordinate work efforts. Plans must conform to the applicable provisions of the Department of Health's Administrative Rules, Chapter 11-62, "Wastewater Systems." The construction schedule should be coordinated to minimize impact on the utilities systems.

There are no long term impacts due to the completion of the project.

4.12 TRAFFIC

Construction work or traffic control measures on Vineyard Boulevard must be coordinated in advance with the Highways Division of the State Department of Transportation. Impacts to City bus operations related to The Bus routes and stops along King Street can be mitigated by scheduling work at night or only during off-peak hours and maintaining a minimum of two traffic lanes on King Street. Traffic control plans will be submitted to the appropriate agencies for review/approval and timely public notifications will reduce the impacts to the traveling public.

5. RELATIONSHIP TO PLANS AND POLICIES

5.1 STATE LAND USE DISTRICT

The lands in the State are classified into four land use districts: urban, agricultural, conservation and rural. Classifications are in conformance to the State Land Use Law, Chapter 205, Hawaii Revised Statutes to preserve, protect and encourage the development of lands for the public health and welfare for Hawaii's people.

The State Land Use District classification system designates the project site in the Urban District. The proposed project is a permitted use in lands with this designation.

5.2 HAWAII STATE PLAN

The Hawaii State Plan, Chapter 226, Hawaii Revised Statutes provides goals and objectives for future growth and development of the State.

The proposed project is consistent with the goals and objectives of the plan.

5.3 CITY AND COUNTY OF HONOLULU GENERAL PLAN

The General Plan provides long term social, economic, environmental, and design objectives and policies. The General Plan states to improve utilities in existing neighborhoods to reduce substandard conditions, and give primary emphasis to maintaining and improving existing roads and utilities.

The project is consistent with the objectives and policies.

5.4 CITY AND COUNTY OF HONOLULU DEVELOPMENT PLAN

The Island of Oahu is divided into eight Development Plans to implement the objectives and policies of the General Plan. The project site is within the region covered by the Primary Urban Center (PUC) Development Plan. The PUC Development Plan (DP) indicates that the project area is designated "Commercial" along North King Street and "Medium and Higher Density Residential/Mixed Use" elsewhere. The PUC DP states to correct existing sewer inadequacies in established areas.

The Kalihi-Palama Action Plan (2004), a DP special area plan, states to replace aging sewer lines in Kalihi-Palama's mixed-use areas, as part of the revitalization of those areas.

The proposed project is consistent with the designations and conforms to the policies and guidelines for infrastructure and public facilities.

5.5 CITY AND COUNTY OF HONOLULU LAND USE ORDINANCE

The Land Use Ordinance regulates land use in accordance with adopted land use policies including the General Plan and Development Plan. The zoning districts of project area is discussed in Section 2.5 herein and shown in **Figure 2.2: Zoning Map**.

The proposed project is consistent with the zoning designations.

5.6 STATE COASTAL ZONE MANAGEMENT PROGRAM

The Coastal Zone Management (CZM) program, established pursuant to Chapter 205A, HRS, as amended, is administered by the State Office of Planning and provides for the beneficial use, protection and development of the State's coastal zone. The objectives and policies of the CZM program encompass broad concerns such as impacts on recreational resources, historic and archaeological resources, coastal scenic resources and open space, coastal ecosystems, coastal hazards, and the management of development.

The proposed sewer project is consistent with the objective and policies of the CZM.

5.7 CITY AND COUNTY OF HONOLULU SPECIAL MANAGEMENT AREA

Pursuant to the Hawaii Coastal Zone Management Act (Chapter 205A, HRS), all counties have enacted ordinances establishing Special Management Areas (SMAs). On Oahu, the SMA development is administered by the City and County of Honolulu Department of Planning and Permitting.

The project site is located outside the boundaries of the City and County's SMA. Therefore, approval of a SMA development permit is not required.

6. ALTERNATIVE METHODS AND MODES

6.1 NO ACTION ALTERNATIVE

This alternative provides that the existing sewer system remains with its structural and hydraulic deficiencies. Maintenance problems would continue to occur and public health/safety would be compromised by wastewater spills and roadway undermining. There would be no commitment of capital improvements costs.

6.2 DESIGN ALTERNATIVE REPORT

A "Design Alternative Report – Small Mainline Projects; Peterson Lane Sewer Rehabilitation, SMPR 92; Pua Lane Sewer Rehabilitation, SMPR 93" investigated several alternatives to repair/replace the aged sewer system within Pua Lane, Peterson Lane, Lakimela Lane and North King Street in the Palama neighborhood of Honolulu.

6.2.1 Alternative Routes

Alternative routes were not available due to terrain and the infrastructure density makai of North King Street. The land slope and existing lateral connections prevent a mauka route towards Vineyard Boulevard. Akepo, Robello and Austin Lanes are the available makai routes. They consist of narrow asphalt pavement without shoulders, underground water, sewer and gas lines, and overhead power and telephone cables. The present routes appear to be the only practical course.

6.2.2 Alternative Methods

a. General

Several methods to rehabilitate the project were considered. The repair or replacement of the existing pipelines could be addressed by:

- Replacement of existing pipe by open cut trenching
- Replacement of existing pipe by pipe bursting or reaming and installation of high density polyethylene (HDPE) pipe
- Repair by Cured-in-Place Pipe Lining
- Repair by Fold and Form Pipe Lining

b. Open Cut Trenching

Open cut trenching replacement involves excavation of a trench to install a new line in a parallel alignment with the existing sewer, then backfilling and repaving of the trench. Flows can be handled by the existing line until the new line is complete.

Advantages:

- competitive bidding due to familiarity of process
- correction of sewer line defects including sags
- bypass of flows may be minimum or not required
- installation in accordance with standard details & specifications.

Disadvantages:

- disruption of traffic, road closures on Pua Lane and Lakimela Lane
- noise, dust and other inconveniences
- longer construction period
- difficult working conditions in easements and narrow lanes
- trench (depth, material handling, and dewatering) related conditions.

c. Pipe Bursting and Installation of HDPE Pipe

Pipe bursting and HDPE installation is a method for inserting a new pipe of equal or slightly larger diameter into an existing pipeline. A hydraulic, pneumatic, or static bursting machine is used to fragment the existing pipe and force the broken pipe material into the surrounding soil. The pipe bursting process is most suitable for replacing pipes made of brittle material such as vitrified clay, terra cotta and plain concrete. The ground condition surrounding the existing pipe influences the success of pipe bursting, with the ease of replacement increasing as the soil type changes from sands and gravels to clay. Existence of improvements or utilities in close proximity negatively influences the use of pipe bursting.

Advantages:

- speed of installation
- low restoration costs
- minimal impact to traffic and neighborhood
- increase pipe size

Disadvantages:

- potential of damage to adjacent utilities or structures
- excavation pits required for lateral reconnection
- flow diversion or bypass pumping required
- insertion pit and pipe staging area storage required
- existing alignment concerns (sags) not corrected

d. Cured-in-Place Pipe Lining

Cured-in-place pipe (CIPP) lining involves inserting a flexible tube impregnated with resin into the sewer by winching or by an inversion process. Existing manholes are used as the tube insertion pits and the existing pipeline must be cleared and cleaned. The tube becomes the pipe lining after inflation and curing by hot water or steam. Diversion of flows or bypass pumping is required during cleaning, insertion and curing. Lateral reinstatement can be accomplished by robot cutting of the lining.

Advantages:

- speed of installation
- minimal restoration costs
- minimal traffic and environmental impacts
- no risk or damage to adjacent utilities or structures
- rapid reinstatement of laterals

Disadvantages:

- flow diversion or bypass pumping required
- reduction in pipe cross sectional area
- existing alignment concerns (sags, offsets) not corrected
- pre-qualification of contractor and liner desirable
- noise from generators for bypass pumping
- odors from resin (CIPP) and manhole venting

e. Fold and Form Pipe Lining

This method involves inserting HDPE or PVC thermo plastic folded pipe into the existing sewer line that is expanded to fit against the existing pipe wall. The folded pipe is expanded by steam heat and pressure. Existing manholes are used as the folded pipe insertion pits and the existing pipeline must be cleared and cleaned. Diversion of flows or bypass pumping required.

Advantages:

- speed of installation
- minimal restoration costs
- minimal traffic and environmental impacts
- no risk or damage to adjacent utilities or structures
- rapid reinstatement of laterals

Disadvantages:

- flow diversion or bypass pumping required
- reduction in pipe cross sectional area
- existing alignment concerns (sags, offsets) not corrected
- pre-qualification of contractor and liner desirable

6.3 COST COMPARISON

Open Cut Trenching Alternative	=	\$2,600,000
Pipe Bursting Alternative	=	\$2,680,000
Open Trench/CIPP Alternative	=	\$2,575,000

Funding for the project will involve only County funds

6.4 RECOMMENDED ALTERNATIVE METHOD

In consideration of construction method familiarity, the open cut trenching alternative is desirable. The open cut trenching is the only alternative that corrects all sag situations. The disadvantage for open cut trenching through Peterson's Lane's narrow road width and congested right-of-way is a workable concern.

The open cut trenching alternative is recommended for its cost, familiarity and sag improvements.

7. SIGNIFICANCE CRITERIA

A Finding of No Significant Impact (FONSI) is issued for the proposed project. Every phase of the proposed sewer rehabilitation, the expected primary and secondary consequences and its short and long term effects are not expected to have a significant impact. The project's relationship to the significance criteria is discussed below:

- (1) *Involves an irrevocable commitment to loss or destruction of any natural or cultural resource;*

Completion of the proposed sewer reconstruction would involve an irrevocable commitment of labor, capital, and materials. No loss or destruction of natural or cultural resources is anticipated.

- (2) *Curtails the range of beneficial uses of the environment;*

The proposed project would improve the maintainability and capacity of the existing sewer collection system and correct existing structural problems. The proposed project will not curtail any beneficial use of the environment.

- (3) *Conflicts with the state's long-term environmental policies or goals and guidelines as expressed in Chapter 344, HRS, and any revisions thereof and amendments thereto, court decisions, or executive orders;*

The proposed project is consistent with the environmental policies, goals and guidance set forth in Chapter 344, HRS. The proposed sewer reconstruction upgrades the sewer line with the design intent of minimizing impacts to surrounding resources.

- (4) *Substantially affects the economic welfare, social welfare and cultural practices of the community or state;*

The proposed project is anticipated to have short-term beneficial economic impacts due to the hiring of construction workers and the purchasing of materials. Any short-term negative impacts or inconveniences to surrounding businesses and traffic will be minimized through the application of appropriate mitigation measures and best management practices. In the long-term, the project will have beneficial economic impacts through the avoidance of additional maintenance and repair costs.

The proposed project is not expected to affect the lifestyle and character of the area. Cultural practices are not likely to be impacted as local resources and access to gathering areas will not be altered by the project.

- (5) *Substantially affects public health;*
- Public health will not be adversely affected by the proposed project, and the sewer rehabilitation will provide positive public health benefits to residents and businesses in the area.
- (6) *Involves substantial secondary impacts, such as population changes or effects on public facilities;*
- No substantial secondary impacts are anticipated. The proposed sewer reconstruction will serve to correct existing structural deficiencies and improve the sewer line capacity, avoiding future maintenance problems and surcharge conditions.
- (7) *Involves a substantial degradation of environmental quality;*
- The proposed sewer reconstruction is not anticipated to involve a substantial degradation of environmental quality. Environmental impacts that may occur during construction will be mitigated through the implementation of Best Management Practices, as appropriate.
- (8) *Is individually limited but cumulative has considerable effect upon the environment or involves a commitment for larger actions;*
- The proposed project will meet the existing and future needs of the project area. The project will have no foreseeable cumulative impacts and does not involve a commitment for larger actions.
- (9) *Substantially affects a rare, threatened, or endangered species, or its habitat;*
- There are no known rare, or listed threatened, or endangered species, or its habitat at the project site.
- (10) *Detrimentially affects air or water quality or ambient noise levels;*
- Short-term impacts to air, water quality or ambient noise levels may occur during construction. Environmental impacts will be mitigated through Best Management Practices and compliance with applicable Department of Health rules and regulations.
- (11) *Affects or is likely to suffer damage by being located in an environmentally sensitive area such as a flood plain, tsunami zone, beach, erosion-prone area, geologically hazardous land, estuary, fresh water, or coastal waters;*
- The project site is not located in an environmentally sensitive area and is not anticipated to affect such areas.

- (12) *Substantially affects scenic vistas and view planes identified in county or state plans or studies; or*

The project site is not identified as having significant scenic views by the Primary Urban Center Development Plan.

- (13) *Requires substantial energy consumption.*

Construction of the proposed project will require substantial energy consumption to install the pipeline and build the appurtenant structures. Completion of the proposed sewer line reconstruction is not anticipated to increase energy consumption, as the proposed project represents a continuation of a current use.

8. REQUIRED PERMITS AND APPROVALS

8.1 STATE OF HAWAII

National Pollutant Discharge Elimination System General Permit
(Discharge of construction dewatering effluent and excavation that results in disturbance of land equal to or greater than one acre)

Community Noise Permit

Community Noise Variance

8.2 CITY AND COUNTY OF HONOLULU

Trenching Permit

Street Usage Permit

Erosion Control Plan/BMPs

Construction Dewatering Permit (Temporary)

Repaving Plan

Permit to Discharge Effluent (Non-Storm Water) (Temporary)

9. CONSULTATION

9.1 PRE-ASSESSMENT CONSULTATION

The following agencies, organizations, and individuals were consulted during the preparation of the Draft EA. The parties that formally replied during the pre-assessment period, are indicated by the * below. Comments are reproduced herein.

Federal Agencies

- * U.S. Army Corps of Engineers

State of Hawaii

- Department of Business, Economic Development & Tourism Office of Planning
- Department of Land & Natural Resources, Land Division
- Department of Land & Natural Resources, Historic Preservation Division
- * Department of Transportation, Highways Division
- * Department of Health, Environmental Planning Office
- Department of Health, Hazard Evaluation & Emergency Response Office
- Department of Health, Environmental Management Division
- * Department of Health, Environmental Management Division, Wastewater Branch
- * Department of Health, Environmental Management Division, Clean Water Branch
- * Department of Health, Environmental Health Services Division, Noise, Radiation and Indoor Air Quality Branch
- Department of Public Safety

City and County of Honolulu

- * Department of Planning and Permitting
- Department of Environmental Services
- * Department of Transportation Services
- * Honolulu Board of Water Supply

Utilities

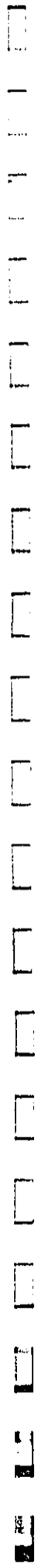
- * AT&T
- Hawaiian Electric Company Inc.
- * Oceanic Time Warner Cable
- * The Gas Company

Peterson Lane Sewer Rehabilitation, SMPR 92
Pua Lane Sewer Rehabilitation, SMPR 93

Final EA

Others

State Senator
State Representative
County Councilmember
Neighborhood Board Chair



9.2 DRAFT EA CONSULTATION

The following agencies, organizations, and individuals were consulted during the preparation of the Final EA. The parties that formally replied during the Draft EA period, are indicated by the * below. Comments are reproduced herein.

State of Hawaii

- Department of Business, Economic Development & Tourism Office of Planning
- Department of Land & Natural Resources, Historic Preservation Division
- * Department of Transportation, Highways Division
- * Department of Health, Environmental Planning Office
- Department of Health, Environmental Management Division, Wastewater Branch
- Department of Health, Environmental Management Division, Clean Water Branch
- Department of Health, Environmental Health Services Division, Noise, Radiation and Indoor Air Quality Branch
- Office & Environmental Quality Control
- * Office of Hawaiian Affairs

City and County of Honolulu

- * Department of Design and Construction
- * Department of Planning and Permitting
- Department of Environmental Services
- * Department of Transportation Services
- * Department of Facility Maintenance
- * Honolulu Board of Water Supply

Utilities

- * AT&T
- * Oceanic Time Warner Cable
- * The Gas Company

Others

Liliha Library
Neighborhood Board Chair



DEPARTMENT OF THE ARMY
U. S. ARMY ENGINEER DISTRICT, HONOLULU
FT. SHAFTER, HAWAII 96858-5440

April 27, 2005

REPLY TO
ATTENTION OF

Regulatory Branch

RECEIVED

APR 28 2005

AMERICAN & ASSOCIATES

Henry S. Morita, Executive Vice President
Akinaka & Associates, Ltd.
3049 Ualena Street, Suite 500
Honolulu, HI 96819-1947

Subject: Department of Design and Construction, City and County of Honolulu, sewer rehabilitation projects, Honolulu, Hawaii (TMK: 1-6-01 and 1-7-29 and 31).

Dear Mr. Morita:

A copy of your February 8, 2005 letter soliciting comments prior to the preparation of a draft Environmental Assessment (EA) was forwarded to our office for review. The project involves the rehabilitation of approximately 4,800 feet of sewer lines along Peterson and Pua Lanes and North King Street in the Palama area of Honolulu using open trenching methods.

This office has reviewed the above-referenced project pursuant to Section 10 of the Rivers and Harbors Act of 1899 and Section 404 of the Clean Water Act (CWA). Section 10 of the Rivers and Harbors Act requires that a Department of the Army (DA) permit be obtained for certain structures or work in or affecting navigable waters of the United States (33 U.S.C. 403). Section 404 of the CWA requires that a DA permit be obtained prior to the placement or discharge of dredged and/or fill material into waters of the U.S., including wetlands (33 U.S.C. 1344).

Although minimal information was provided in your correspondence, the project area does not appear to contain waters of the U.S. subject to Corps jurisdiction. Therefore, a DA permit will not be required for the proposed sewer rehabilitation.

For your information, all future correspondence requesting a Department of the Army jurisdictional determination should be sent directly to Mr. George P. Young, Chief, Regulatory Branch, Honolulu District, at the letterhead address.

Information regarding the Corps regulatory program can be found at the following web site: <http://www.usace.army.mil/inet/functions/cw/cecwo/reg/>. If you have any questions, please contact Ms. Connie Ramsey by phone at 808-438-2039, by facsimile at 808-438-4060, or by electronic mail at Connie.L.Ramsey@usace.army.mil. Please refer to File No. POH-2005-236. Thank you for your cooperation with our regulatory program.

Sincerely,

George P. Young, P.E.
Chief, Regulatory Branch

LINDA LINGLE
GOVERNOR OF HAWAII



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

CHIYOME L. FUKINO, M.D.
DIRECTOR OF HEALTH

In reply, please refer to:
EPO

July 1, 2004

RECEIVED

FEB 17 2005

AKINAKA & ASSOCIATES, LTD.

To: Persons Requesting Department of Health
Comments on Land Use Documents

From: June F. Harrigan-Lum, Manager
Environmental Planning Office

June F. Harrigan-Lum

Our land use review coordinator position will be vacant beginning July 1, 2004. We will be filling this position as soon as possible. In the meantime, starting July 1, 2004, the Environmental Planning Office (EPO) will not be accepting any land use documents for coordinated replies.

If you would like to request to have staff in a specific branch or office to comment on your proposal, you are welcome to contact the staff directly. If a document has already been received by EPO and you wish to have us send it to a specific branch, you may call 586-4337 and ask for the clerical staff to send it to the appropriate branch. Please describe the document and the date of your cover letter.

You may call the above number and check with the clerical staff to see when coordinated responses from this office will resume.

Thank you for your cooperation and patience in this matter.

Enclosure

C: DDEH

LINDA LINGLE
GOVERNOR OF HAWAII



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

CHIYOME L. FUKINO, M.D.
DIRECTOR OF HEALTH

In reply, please refer to:
File:

February 16, 2005

RECEIVED

FEB 18 2005

AKINAKA & ASSOCIATES, LTD.

MEMORANDUM

TO: Henry S. Morita, Executive Vice President
Akinaka & Associates, Ltd.

FROM: Russell S. Takata, Program Manager
Noise, Radiation & IAQ Branch

A handwritten signature in black ink, appearing to read "Russell S. Takata".

SUBJECT: Comments to the Small Projects (SMPR) and Lateral Small Projects (LSPR)
Peterson Land Sewer Rehabilitation (SMPR 92) and Pua Lane Sewer
Rehabilitation (SMPR 93)
Department of Design and Construction, C&C of Honolulu
Tax Map Key: 1-6-01; 1-7-29 & 31

Our comments should be printed as follows:

“Project activities shall comply with the Administrative Rules of the Department of Health:

- Chapter 11-46 Community Noise Control

If you have any questions, please contact me at 586-4701.

LINDA LINGLE
GOVERNOR OF HAWAII



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

CHRYOME LEINAALA FUXINO, M.D.
DIRECTOR OF HEALTH

In reply, please refer to:
EMD / WB

RECEIVED

March 1, 2005

MAR 8 2005

AKINAKA & ASSOCIATES, LTD. O1 6 001 etc.wpd
W12 wb050068

Mr. Henry Morita
Akinaka & Associates, Ltd.
Consulting Engineers
3049 Ualena Street, Suite 500
Honolulu, Hawaii 96819-1947

Dear Mr. Morita:

Subject: **Small Mainline Projects (SMPR) and Lateral Small Projects (LSPR)**
Peterson Land Sewer Rehabilitation (SMPR 92) and
Pua Lane Sewer Rehabilitation (SMPR 93)
Department of Design and Construction, C&C of Honolulu
Honolulu, Hawaii
TMK: (1) 1-6-001 and 1-7-029 & 031


Pre-Assessment Consultation

Thank you for allowing the opportunity to review the above subject project which proposes structural and hydraulic corrections to the existing sewer line. We support projects to maintain and improve sewer lines and to fix deficiencies. We have no comments at this time and look forward to reviewing the Draft Environmental Assessment when it becomes available.

As with all wastewater concerns, plans must conform to applicable provisions of the Department of Health's Administrative Rules, Chapter 11-62, "Wastewater Systems." We do reserve the right to review the detailed wastewater plans for conformance to applicable rules.

Should you have any questions, please contact the Planning & Design Section of our Branch at 586-4294.

Sincerely,


HAROLD K. YEE, P.E., CHIEF
Wastewater Branch

LNKM:erm

LINDA LINGLE
GOVERNOR OF HAWAII



CHIYOME L. FUKIHO, M.D.
DIRECTOR OF HEALTH

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

In reply, please refer to:
END / CWB

03033PKP.05

RECEIVED

March 7, 2005

MAR 9 2005

AKINAKA & ASSOCIATES, LTD.

Mr. Henry S. Morita
Executive Vice President
Akinaka & Associates, Ltd.
3049 Ualena Street, Suite 500
Honolulu, Hawaii 96819-1947

Dear Mr. Morita:

**Subject: Small Mainline Projects (SMPR) and Lateral Small Projects
Peterson Land Sewer Rehabilitation (SMPR 92) and
Pua Lane Sewer Rehabilitation (SMPR 93)
Honolulu, Oahu, Hawaii**

The Department of Health (DOH), Clean Water Branch (CWB), has reviewed the subject document and offers the following comments:

1. The Army Corps of Engineers should be contacted at 438-9258 to identify whether a Federal license or permit (including a Department of Army permit) is required for this project. Pursuant to Section 401(a)(1) of the Federal Water Pollution Control Act (commonly known as the "Clean Water Act"), a Section 401 Water Quality Certification is required for "[a]ny applicant for Federal license or permit to conduct any activity including, but not limited to, the construction or operation of facilities, which may result in any discharge into the navigable waters..."
2. A National Pollutant Discharge Elimination System (NPDES) general permit coverage is required for the following activities:
 - a. Storm water associated with industrial activities, as defined in Title 40, Code of Federal Regulations, Sections 122.26(b)(14)(i) through 122.26(b)(14)(ix) and 122.26(b)(14)(xi).
 - b. Construction activities, including clearing, grading, and excavation, that result in the disturbance of equal to or greater than one (1) acre of total land area. The total land area includes a contiguous area where multiple separate and distinct construction activities may be taking place at different times on different schedules under a larger common plan of development or sale. **An NPDES permit is required before the commencement of the construction activities.**
 - c. Discharges of treated effluent from leaking underground storage tank remedial activities.
 - d. Discharges of once through cooling water less than one (1) million gallons per day.

Mr. Henry S. Morita
March 7, 2005
Page 2

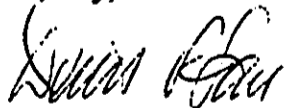
- e. Discharges of hydrotesting water.
- f. Discharges of construction dewatering effluent.
- g. Discharges of treated effluent from petroleum bulk stations and terminals.
- h. Discharges of treated effluent from well drilling activities.
- i. Discharges of treated effluent from recycled water distribution systems.
- j. Discharges of storm water from a small municipal separate storm sewer system.
- k. Discharges of circulation water from decorative ponds or tanks.

The CWB requires that a Notice of Intent (NOI) to be covered by an NPDES general permit for any of the above activities be submitted at least 30 days before the commencement of the respective activities. The NOI forms may be picked up at our office or downloaded from our website at: <http://www.hawaii.gov/health/environmental/water/cleanwater/index.html>

3. The applicant may be required to apply for an individual NPDES permit if there is any type of activity in which wastewater is discharged from the project into State waters and/or coverage of the discharge(s) under the NPDES general permit(s) is not permissible (i.e. NPDES general permits do not cover discharges into Class 1 or Class AA State waters). An application for the NPDES permit is to be submitted at least 180 days before the commencement of the respective activities. The NPDES application forms may also be picked up at our office or downloaded from our website at: <http://www.hawaii.gov/health/environmental/water/cleanwater/index.html>
4. Hawaii Administrative Rules, Section 11-55-38, also requires the applicant to either submit a copy of the new NOI or NPDES permit application to the State Department of Land and Natural Resources, State Historic Preservation Division (SHPD), or demonstrate to the satisfaction of the DOH that the project, activity, or site covered by the NOI or application has been or is being reviewed by SHPD.

If you have any questions, please contact Ms. Kris Poentis of the Engineering Section, CWB, at 586-4309.

Sincerely,



DENIS R. LAU, P.E., CHIEF
Clean Water Branch

KP:np

LINDA LINGLE
GOVERNOR



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

March 1, 2005

RODNEY K. HARAGA
DIRECTOR

Deputy Directors
BRUCE Y. MATSUI
BARRY FUKUNAGA
BRENNON T. MORIOKA
BRIAN H. SEKIGUCHI

IN REPLY REFER TO:

STP 8.1617

RECEIVED

MAR 11 2005

AKINAKA & ASSOCIATES, LTD.

Mr. Henry S. Morita
Executive Vice President
Akinaka & Associates, Ltd.
3049 Ualena Street, Suite 500
Honolulu, Hawaii 96819-1947

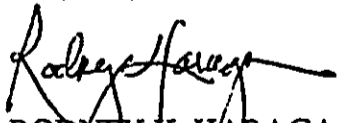
Dear Mr. Morita:

Subject: Small Mainline Projects (SMPR), Lateral Small Projects (LSPR),
Peterson Land Sewer Rehabilitation (SMPR 92) and
Pua Lane Sewer Rehabilitation (SMPR 93)
Pre-Assessment Consultation
TMK: 1-6-01; 1-7-29 & 31

In reply to your pre-assessment consultation notice on the subject projects, this is to advise you that if any construction work for the projects is to occur in the Vineyard Boulevard right-of-way or traffic control measures need to put in place for vehicles turning off Vineyard Boulevard into Pua Lane or Peterson Lane, your project staff will need to coordinate such activity in advance with our Highways Division. To facilitate work on your projects, our Highways staff should be contacted as early as possible.

We appreciate receiving your consultation notice and for the opportunity to provide our comments.

Very truly yours,


RODNEY K. HARAGA
Director of Transportation

c: Roger Kobayashi, C&C Department of Design and Construction

DEPARTMENT OF TRANSPORTATION SERVICES
CITY AND COUNTY OF HONOLULU

650 SOUTH KING STREET, 3RD FLOOR • HONOLULU, HAWAII 96813
TELEPHONE (808) 523-4529 • FAX (808) 523-4730 • INTERNET www.co.honolulu.hi.us

MUFI HANNEMANN
MAYOR



EDWARD Y. HIRATA
ACTING DIRECTOR

RECEIVED

MAR 7 2005

AKINAKA & ASSOCIATES, LTD.

March 3, 2005

TP2/05-93945R
TPD05-00080

Mr. Henry S. Morita, Executive Vice President
Akinaka & Associates, Ltd.
3049 Ualena Street, Suite 500
Honolulu, Hawaii 96819-1947

Dear Mr. Morita:

Subject: Peterson and Pua Lanes Sewer Rehabilitation

Thank you for your February 8, 2005 letter requesting our comments on the subject proposed project. We have reviewed the information you transmitted and offer the following comments for your consideration as you prepare the draft environmental assessment (EA):

1. The draft EA should address and discuss the impacts of the project on:
 - a. The surrounding City street network during construction;
 - b. City bus operations related to TheBus routes and stops along King Street and the subject lanes; and
 - c. Underground traffic signal cables (fiber optic and communication) within the project limits.

Mitigation measures proposed to minimize the impact of the project on the above City transportation facilities should also be discussed.

2. Traffic control plans should be prepared for each phase of construction work. In order to minimize traffic impacts, project construction should be phased to ensure that work tasks scheduled for a certain day can be started and completed during the same work day. Limiting construction work to off-peak hours should be used as a means to further minimize traffic impacts on the surrounding neighborhood.
3. The area neighborhood board, as well as area residents, businesses, emergency personnel, bus personnel, etc., should be informed and kept apprised of the details of the proposed project and the impacts the project may have on the surrounding area.

Mr. Henry S. Morita, Executive Vice President
Page 2
March 3, 2005

We look forward to reviewing the draft EA. Should you have any questions regarding these comments, please contact Faith Miyamoto of the Transportation Planning Division at 527-6976.

Sincerely,

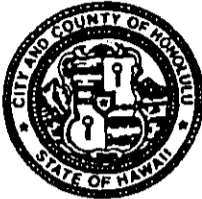


EDWARD Y. HIRATA
Acting Director

DEPARTMENT OF PLANNING AND PERMITTING
CITY AND COUNTY OF HONOLULU

650 SOUTH KING STREET, 7TH FLOOR • HONOLULU, HAWAII 96813
PHONE: (808) 523-4432 • FAX: (808) 527-6743
DEPT. WEB SITE: www.honolulu.gov • CITY WEB SITE: www.honolulu.gov

MUFI HANNEMANN
MAYOR



RECEIVED

MAR 31 2005

AKINAKA & ASSOCIATES : U.

HENRY ENG, FAICP
DIRECTOR

DAVID K. TANOUE
DEPUTY DIRECTOR

05WWB036 (SG)
2005/ELOG-341

March 30, 2005

Mr. Henry S. Morita
Akinaka & Associates, Ltd.
3049 Ualena Street, Suite 500
Honolulu, Hawaii 96819-1947

Dear Mr. Morita:

**PRE-ASSESSMENT CONSULTATION
SMALL MAINLINE PROJECTS (SMPR) AND LATERAL SMALL PROJECTS (LSPR)
PETERSON LANE SEWER REHABILITATION (SMPR 92)
AND PUA LANE SEWER REHABILITATION (SMPR 93)
TMK: 1-6-001; 1-7-029 AND 31**

This is in response to your February 8, 2005 letter regarding the preparation of a Draft Environmental Assessment (DEA) for the Peterson Lane and Pua Lane Sewer Rehabilitation Project. We have reviewed the proposal and have the following comments:

1. The DEA should discuss how the project supports the City's General Plan.
2. The DEA should also discuss how the project helps achieve the long-range vision of the Primary Urban Center Development Plan by discussing how the project conforms to the policies and guidelines regarding wastewater systems in the Primary Urban Center.
3. Our consultants have recently completed the Kalihi-Palama Action Plan, which outlines priority projects for the community. The DEA should discuss how the project relates to the recommendations of this plan. For a copy of this Plan, please call Mr. Lowell Chun at 527-6015.
4. The proposed project is not within a Special Management Area or Special District.

If you have any questions, please contact Mr. Scott Gushi of the Wastewater Branch at 523-4886.

Sincerely yours,

For *Dennis M. Nishimura*
HENRY ENG, FAICP
Director of Planning and Permitting

HE:dl
[360632]

BOARD OF WATER SUPPLY

CITY AND COUNTY OF HONOLULU
630 SOUTH BERETANIA STREET
HONOLULU, HI 96843



February 17, 2005

MUFI HANNEMANN, Mayor

EDDIE FLORES, JR., Chairman
CHARLES A. STED, Vice-Chairman
HERBERT S. K. KAOPUA, SR.
DAROLYN H. LENDIO

RODNEY K. HARAGA, Ex-Officio

CLIFFORD S. JAMILE
Manager and Chief Engineer

DONNA FAY K. KIYOSAKI
Deputy Manager and Chief Engineer

RECEIVED

FEB 22 2005

AKINAKA & ASSOCIATES LTD.

Mr. Henry S. Morita
Akinaka & Associates, Ltd.
3049 Ualena Street, Suite 500
Honolulu, Hawaii 96819-1947

Dear Mr. Morita:

Subject: Your Letter of February 8, 2005 on the Pre-Assessment Consultation for the Peterson Land Sewer Rehabilitation (SMPR 92) and Pua Lane Sewer Rehabilitation (SMPR93), TMK:1-6-1; 1-7-29 7 31.

Thank you for the opportunity to comment on the proposed project.

The construction drawings should be submitted for our review and approval.

The construction schedule should be coordinated to minimize impact to the water system.

If you have any questions, please contact Joseph Kaakua at 748-5442.

Very truly yours,

KEITH S. SHIDA
Principal Executive
Customer Care Division

GAS

P.O. Box 3000
Honolulu, Hawaii 96802-3000

April 1, 2005

Akinaka & Associates, Ltd.
3049 Ualena Street, Suite 500
Honolulu, Hawaii 96819-1947

RECEIVED

APR 1 - 2005

AKINAKA & ASSOCIATES, LTD.

Attention: Mr. Henry S. Morita
Executive Vice President

Gentlemen:

Subject: Pre-Assessment Consultation for
Small Mainline Projects and Lateral Small Projects
Peterson Land Sewer Rehabilitation and Pua Lane Sewer Rehabilitation

Please be advised that The Gas Company, LLC maintains underground utility gas mains in the project vicinity, which serves commercial and residential customers in the area and is interconnected with the utility network in Honolulu. 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.

Thank you for the opportunity to comment on the Pre-Assessment Consultation. Should there be any questions, or if additional information is desired, please call Chris Anderson at 594-5564.

Sincerely,

The Gas Company, LLC



Charles E. Calvet, P.E.
Manager, Engineering

CEC:krs
05-139



Verizon Hawaii Inc.
P.O. Box 2200
Honolulu, HI 96841

April 6, 2005

RECEIVED

APR 11 2005

AKINAKA & ASSOCIATES

Mr. Henry S. Morita
Akinaka & Associates, Ltd.
3049 Ualena Street, Suite 500
Honolulu, Hawaii 96819-1947

Dear Mr. Morita,

**Subject: Small Mainline Projects (SMPR) and Lateral Small Projects (LSPR)
Peterson Land Sewer Rehabilitation (SMPR 92) and
Pua Lane Sewer Rehabilitation (SMPR 93)
Department of Design and Construction, C&C of Honolulu
Honolulu, Hawaii
TMK: 1-6-01; 1-7-29 & 31**

Thank you for the opportunity to submit comments prior to the preparation of the Draft Environmental Assessment for the above subject project.

Verizon Hawaii does not have any comments to add to the Environmental Assessment for the Small Mainline Projects (SMPR) and Lateral Small Projects (LSPR) at this time.

If you have any questions, please call Kenwynn Goo at 840-2967.

Sincerely,

Lynette Yoshida
Section Manager - Network Engineering and Planning

c: File (Kalihi)
K. Goo

Transmittal



200 Akamainui Street • Mililani HI 96789
(808) 625 - 2100

Date: February 22, 2005

RE: PROJECT LOCATION/WORK ORDER

To: AKINAKA & ASSOCIATES
3049 Ualena Street Suite
500
Honolulu, Hawaii 96819

LSPR, SMPR 92, SMPR 93
Noth King Street, Palama

Attention: Henry S. Morita

RECEIVED

FEB 23 2005

AKINAKA & ASSOCIATES, LTD.

GENTLEMEN: We are sending you the following:

- | | |
|---|---|
| <input type="checkbox"/> Pole / Conduit Application | <input type="checkbox"/> Preliminary / Final Drawings |
| <input type="checkbox"/> Permit Applications | <input type="checkbox"/> Return Prints |
| <input type="checkbox"/> Copy of Letter | <input checked="" type="checkbox"/> Other |

Copies	Sht / Appl. #	Description

The Above is transmitted:

- | | |
|---|---|
| <input type="checkbox"/> For Your Approval | <input type="checkbox"/> As Requested |
| <input type="checkbox"/> For Review and Comment | <input type="checkbox"/> As Approved |
| <input type="checkbox"/> For Your Use / Records | <input checked="" type="checkbox"/> Other <u>Review and comment of plans.</u> |

Comments / Remarks: Oceanic Time Warner records indicate that our facilities are aerial through out the project area. At this time we see no conflict. If you have any questions, contact me at 625-8676

CC: _____

Signed: _____

Title: OSP Engineer : Lionel Aguiar

9.2 DRAFT EA CONSULTATION

The following agencies, organizations, and individuals were consulted during the preparation of the Final EA. The parties that formally replied during the Draft EA period, are indicated by the * below. Comments are reproduced herein.

State of Hawaii

- Department of Business, Economic Development & Tourism Office of Planning
- Department of Land & Natural Resources, Historic Preservation Division
- * Department of Transportation, Highways Division
- * Department of Health, Environmental Planning Office
- Department of Health, Environmental Management Division, Wastewater Branch
- Department of Health, Environmental Management Division, Clean Water Branch
- Department of Health, Environmental Health Services Division, Noise, Radiation and Indoor Air Quality Branch
- Office & Environmental Quality
- * Office of Hawaiian Affairs

City and County of Honolulu

- * Department of Design and Construction
- * Department of Planning and Permitting
- Department of Environmental Services
- * Department of Transportation Services
- * Department of Facility Maintenance
- * Honolulu Board of Water Supply

Utilities

- * AT&T
- * Oceanic Time Warner Cable
- * The Gas Company

Others

Liliha Library
Neighborhood Board Chair

LEIALOHA
GOVERNOR OF HAWAII



STATE OF HAWAII
DEPARTMENT OF HEALTH
1650 ALI DR
HONOLULU, HAWAII 96813

August 1, 2005

Mr. Wayne M. Hashiro, P.E., Director
Department of Design and Construction
City and County of Honolulu
650 South King Street, 11th Floor
Honolulu, Hawaii 96813

Dear Mr. Hashiro:

SUBJECT: Environmental Review for Draft Environmental Assessment for Small Mainline
Projects (SMPR) and Lateral Small Projects (LSPR), Peterson Lane Sewer
Rehabilitation, SMPR 92; Pua Lane Sewer Rehabilitation, SMPR 93, Contract
F84571. Oahu, Palama, Honolulu. TMK: 1-6-01; 1-7-29; 1-7-31

Thank you for allowing us to review and comment on the subject document. We have no
comment at this time. Please refer to our website for the Standard Comments (<http://www.state.hi.us/health/cvrm/online/leav-planning/landuse/landuse.html>). If there are any
questions about these standard comments please contact Jiacai Liu with the Environmental
Planning Office at 586-4346.

Sincerely,

HAROLD LAO, ACTING MANAGER
Environmental Planning Office

c: EPO

115020

08-01-05
DANNY L. FURUO, M.D.
DIRECTOR OF HEALTH

114957
Ref # WW/CS 05-088

DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY AND COUNTY OF HONOLULU

650 SOUTH KING STREET, 11th FLOOR
HONOLULU, HAWAII 96813
Phone: (808) 533-4164 • Fax: (808) 533-4167



WAYNE M. HASHIRO, P.E.
DIRECTOR

WAYNE M. HASHIRO, P.E.
DIRECTOR
DANNY L. FURUO, M.D.
DEPUTY DIRECTOR

WW/CS 05-143

September 26, 2005

Mr. Harold Lao, Acting Manager
Environmental Planning Office
Department of Health
State of Hawaii
P.O. Box 3378
Honolulu, Hawaii 96801-3378

Attention: Jiacai Liu

Dear Mr. Lao:

Subject: Draft Environmental Assessment
Peterson Lane (SMPR 92) and Pua Lane (SMPR 93) Sewer Rehabilitation
Job No. W5-05
Tax Map Key: 1-5-04, 05 & 06; 1-6-01; 1-7-29 & 31

Thank you for your review of the subject and the comments received in the reference
letter EPO-05-065 dated August 1, 2005. We have reviewed the Standard Comments on your
website and will comply with the management actions.

If there are any questions, please feel free to call Clifford Kanda at 523-4963.

Very truly yours,

WAYNE M. HASHIRO, P.E.
Director

1 ENCLOSURE
CONTINUED

RECEIVED

5 JUL 25 3 30 PM



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
650 SOUTH KING STREET, 11th FLOOR
HONOLULU, HAWAII 96813-5097

July 14, 2005

Mr. Wayne M. Hashiro, P.E.
Director
Department of Design and Construction
City and County of Honolulu
650 South King Street, 11th Floor
Honolulu, Hawaii 96813

Dear Mr. Hashiro:

Subject: Peterson Lane Sewer Rehabilitation, SMPR 92 &
Pua Lane Sewer Rehabilitation, SMPR 93
Draft Environmental Assessment (DEA)
TMK: 1-6-01, 1-7-29, 1-7-31

Thank you for your transmittal requesting our review of the subject report.

Our comments previously communicated to Mr. Henry Morita, Alkinaka & Associates design consultant for the subject project in our letter STP 8.1617 dated March 1, 2005 (copy enclosed) remain valid and are applicable to the subject report.

We appreciate the opportunity to provide our comments.

Very truly yours,

RODNEY K. HARAGA
Director of Transportation

Enc.

113400

RODNEY K. HARAGA
DIRECTOR

DEPT. DIRECTOR
650 S. KING ST.
HONOLULU, HI 96813

STP 8.1824

113240

DEPT. DIRECTOR
CITY AND COUNTY OF HONOLULU
2005 JUL 22 10 2:55

DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY AND COUNTY OF HONOLULU

650 SOUTH KING STREET, 11th FLOOR
HONOLULU, HAWAII 96813
Phone: 1808 523-1841 • Fax: 1808 523-1817
Web Site: www.hawaii.gov/ddc



WAYNE M. HASHIRO, P.E.
DIRECTOR

RODNEY K. HARAGA
DEPUTY DIRECTOR

WWW.CS.05-147

September 26, 2005

Mr. Rodney K. Haraga, Director
Department of Transportation
State of Hawaii
869 Punchbowl Street
Honolulu, Hawaii 96813-5097

Dear Mr. Haraga:

Subject: Draft Environmental Assessment
Peterson Lane (SMPR 92) and Pua Lane (SMPR 93) Sewer Rehabilitation
Job No. W-5-05
Tax Map Key: 1-5-04.05 & 06; 1-6-01; 1-7-29 & 31

Thank you for your review of the subject and the comments received in the reference letter STP 8.1824 dated July 14, 2005. The current construction drawings do not propose work in the Vineyard Boulevard right-of-way. Traffic control plans will be submitted for your review and approval as traffic control measures are needed for vehicles turning from Vineyard Boulevard into Pua Lane. We will coordinate the construction plans with your Highways Division staff as early as possible.

If there are any questions, please feel free to call Clifford Kanda at 523-4963.

Very truly yours,

WAYNE M. HASHIRO, P.E.
Director



STATE OF HAWAII
OFFICE OF ENVIRONMENTAL QUALITY CONTROL

225 SOUTH KING STREET
HONOLULU, HAWAII 96813
PHONE: (808) 586-4185
FACSIMILE: (808) 586-4185
E-MAIL: oeq@hawaii.gov

LOCAL LEGISLATURE
GOVERNOR OF HAWAII

GENEVIEVE SALMONSON
DIRECTOR

Wayne Hashiro
May 9, 2005
Page 2

RECEIVED
MAY - 9 2005
AKINAKA & ASSOCIATES, LTD

May 9, 2005
Wayne Hashiro, Acting Director
Department of Design & Construction
650 South King Street, 11th floor
Honolulu, Hawaii 96813

Attn: Roger Kobayashi

Dear Mr. Hashiro:

Subject: Draft Environmental Assessment (EA)
Peterson & Pua Lanes Sewer Rehabilitation

We have the following comments to offer:

Two-sided pages: In order to reduce bulk and save on paper, please print on both sides of the pages in the final document.

Cultural impacts assessment:

Act 50 was passed by the legislature in April 2000. This mandates an assessment of impacts to current cultural practices by the proposed project. In the final EA include such an assessment.

If the subject area is in a developed urban setting, cultural impacts must still be assessed. Many incorrectly assume that the presence of urban infrastructure effectively precludes consideration of current cultural factors. For example, persons are known to gather kauna'oa, 'ilima, 'uhaloa, noni or ki on the grassy slopes and ramps of the H-1 freeway and some state highways on the neighbor islands. Certain landmarks and physical features are used by Hawaiian navigators for sailing, and the lines of sight from landmarks to the coast by fishermen to locate certain fishing spots. Blocking these features by the construction of buildings or tanks may constitute an adverse cultural impact.

For assistance in the preparation refer to our *Guidelines for Assessing Cultural Impacts*. Contact our office for a paper copy or go to our homepage at <http://www.state.hi.us/cultural/assessingcultural.htm>. You will also find the text of Act 50 linked to this section of our homepage.

Contact: Consult with the State Historic Preservation Division of DLNR regarding impacts from this project.

Significance criteria: Criteria # 4 was amended in 2000 to read, "Substantially affects the economic welfare, social welfare, and cultural practices of the community or State." (*italics added*) Please modify your analysis of #4 accordingly.

Community notification: Section 4.10 notes early and frequent communications to mitigate the concerns of residential owners. How will this be accomplished?

Terminology: Section 6.2.2.c uses the abbreviation "HDPE Pipe." In the final EA define this term.

If you have any questions, call Nancy Heinrich at 586-4185.

Sincerely,

Genevieve Salmonson
GENEVIEVE SALMONSON
Director

c: Henry Morita, Akinaka & Assoc.

DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY AND COUNTY OF HONOLULU

690 SOUTH KING STREET, 11TH FLOOR
HONOLULU, HAWAII 96813
Phone: (808) 523-4963 • Fax: (808) 523-4887
Web Site: www.honolulu.gov



MUHI HANIKEMAHU
MAYOR

WAYNE M. HASHIRO, P.E.
DIRECTOR

ELIZABETH C. LEE, P.E.
DEPUTY DIRECTOR

WWW.CS-05-200

December 8, 2005

Ms. Genevieve Salmonson, Director
State of Hawaii
Office of Environmental Quality Control
235 South Beretania Street, Suite 702
Honolulu, Hawaii 96813

Attention: Nancy Heinrich

Dear Ms. Salmonson:

Subject: Draft Environmental Assessment (EA)
Peterson and Pua Lane Sewer Rehabilitation

Thank you for your letter dated May 9, 2005. We offer the following responses to your comments.

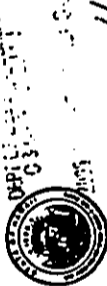
1. Two-sided pages: The final documents submitted to OEQC will be printed on both sides of the pages.
2. Cultural impacts assessments: Section 4.9 "Archaeological/Cultural" has been expanded in the final EA to address Act 50 and conform to the Guidelines for Assessing Cultural Impacts.
3. Contacts: The State Historic Preservation Division was contacted during the pre-assessment and draft EA consultant periods. Responses from that agency were not received.
4. Significance criteria: Analysis of the amended criteria #4 (to discuss cultural practices impacts) is included in the Final EA.
5. Community notification: Early and frequent communications to mitigate concerns of residential owners have been initiated by a presentation at the neighborhood board, newspaper coverage and newsletters to provide project status, a hot-line contact and future operations.
6. Terminology: The term HDPE (high density polyethylene) will be defined in the final EA. If there are any questions, please feel free to call Clifford Kanda at 523-4963.

Very truly yours,


for WAYNE M. HASHIRO, P.E.
Director

PHONE (808) 594-1888

5 AUG -4 2005



STATE OF HAWAII
OFFICE OF HAWAIIAN AFFAIRS
711 KAPOLANI BOULEVARD, SUITE 500
HONOLULU, HAWAII 96813

ELS
WA:

114918

FAX (808) 594-1885

114909
doubt
dys
w/167

HRD05/1936

August 1, 2005

Wayne Hashiro, Director
Department of Design and Construction
650 S. King Street, 11th Floor
Honolulu, HI 96813

RE: Draft Environmental Assessment for the Proposed Rehabilitation of Peterson Lane and Pua Lane Sewers (SMR 92 & 93), Palama, O'ahu; TMK 1-6-01, 1-7-29 and 1-7-31.

Dear Mr. Hashiro,

The Office of Hawaiian Affairs (OHA) is in receipt of your July 1, 2005 request for comment on the above listed proposed project, TMK 1-6-01, 1-7-29 and 1-7-31. OHA offers the following comments:

OHA recommends that an Archaeological Monitoring Plan be drafted in support of the proposed project. On-site monitoring by a professional archaeologist is recommended for all ground altering activities and excavations.

OHA further requests your assurances that if the project goes forward, should iwi or Native Hawaiian cultural or traditional deposits be found during ground disturbance, work will cease, and the appropriate agencies will be contacted pursuant to applicable law.

Thank you for the opportunity to comment. If you have further questions or concerns, please contact Jesse Yorck at (808) 594-0239 or [jessey@oha.org](mailto:jesse@oha.org).

'O wau iho nō.

Clyde W. Namu'o

Clyde W. Namu'o
Administrator

DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY AND COUNTY OF HONOLULU

940 SOUTH KING STREET, 11TH FLOOR
HONOLULU, HAWAII 96813
Phone: (808) 522-4864 • Fax: (808) 522-4887
Web Site: www.ddc.org



MULTI HAWAIIAN
MAYOR

WAYNE M. HASHIRO, P.E.
DIRECTOR
JESSE YORCK, P.E.
DEPUTY DIRECTOR

WW/CS 05-148

September 26, 2005

Mr. Clyde W. Namu'o, Administrator
Office of Hawaiian Affairs
State of Hawaii
711 Kapiolani Boulevard, Suite 500
Honolulu, Hawaii 96813

Attention: Jesse Yorck

Dear Mr. Namu'o:

Subject: Draft Environmental Assessment
Peterson Lane (SMR 92) and Pua Lane (SMR 93) Sewer Rehabilitation
Job No. W5-05
TMK Map Key: 1-5-04, 05 & 06; 1-6-01; 1-7-29 & 31

Thank you for your review of the subject and the comments received in the reference letter HRD05/1936 dated August 1, 2005. An Archaeological Monitoring Plan will be required of the Construction Contractor as part of the construction contract documents. Contract documents will require that if any remains of historical value are encountered, the Contractor shall stop work and immediately notify the Officer-in-Charge and the State Historic Preservation Officer.

If there are any questions, please feel free to call Clifford Kanada at 523-4963.

Very truly yours,

Wayne M. Hashiro
WAYNE M. HASHIRO, P.E.
Director

112074
AK

5 JUL 14 2005

LESLIE
WAS. STATE
ARCHIVES

CDP 05-111295

July 14, 2005

MEMORANDUM

TO: MR. ELDON FRANKLIN, CHIEF
WASTEWATER DIVISION

FROM: MARVIN M. W. CHAR, CHIEF
CIVIL DIVISION

SUBJECT: DRAFT ENVIRONMENTAL ASSESSMENT FOR PETERSON LANE
SEWER REHABILITATION, SMPR 92 AND PUA LANE SEWER
REHABILITATION, SMPR 93. TMK: 1-5-01, 1-7-29, 1-7-31

Our King Street Improvements, Phase 3 is currently under construction. It involves the construction of sidewalks and curb ramps on both sides of North King Street and is projected to be completed before the end of this year. We understand that your sewer rehabilitation is not expected to involve work under the existing and new sidewalks and we anticipate no conflict with your project.

Thank you for the opportunity to comment.

If there are any questions, please contact Gregory Sue at extension 6304.

GS:dk

DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY AND COUNTY OF HONOLULU
810 SOUTH KING STREET, 11TH FLOOR
HONOLULU, HAWAII 96813
Phone: (808) 521-4164 • Fax: (808) 521-4167
www.hawaii.gov/ddc



MARVIN M. W. CHAR
DIRECTOR

MARVIN M. W. CHAR, P.E.
DIRECTOR

WWW.CS 05-159

September 26, 2005

MEMORANDUM

TO: MARVIN CHAR, CHIEF
CIVIL DIVISION

ATTN: GREGORY SUE

FROM: ELDON FRANKLIN, CHIEF
WASTEWATER DIVISION

SUBJECT: DRAFT ENVIRONMENTAL ASSESSMENT
PETERSON LANE (SMPR 92) AND PUA LANE (SMPR 93) SEWER
REHABILITATION
JOB NO. W5-05
TAX MAP KEY: 1-5-04, 05 & 06; 1-6-01; 1-7-29 & 31

Thank you for your review of the subject and the comments received in the reference letter CDP 05-111295. The project will not involve work under the existing sidewalks and therefore should not conflict with your King Street Improvements, Phase 3 which involves construction of sidewalks and curb ramps.

If there are any questions, please feel free to call Clifford Kanda at 4963.

DEPARTMENT OF PLANNING AND PERMITTING
CITY AND COUNTY OF HONOLULU
840 SOUTH KING STREET, 17TH FLOOR
HONOLULU, HAWAII 96813
PHONE: (808) 523-4184 • FAX: (808) 523-4187
DEPT. WEB SITE: WWW.CITYANDCOUNTY.HI/DEPT/PLANNING

114652
OK



5 AUG -2 03:31
MONTY D. AND
DORIS R. TUCKER
COUNTY DIRECTOR

August 2, 2005
OHWB006 (SG)
2005F002-150

WAYNE M. HASHIRO, P.E.
DIRECTOR

MEMORANDUM

TO: WAYNE M. HASHIRO, P.E., DIRECTOR
DEPARTMENT OF DESIGN AND CONSTRUCTION

ATTN: ROGER KOBAYASHI
COLLECTION SYSTEM DESIGN

FROM: *Henry Eng. Faicp*
HENRY ENG. FAICP, DIRECTOR
DEPARTMENT OF PLANNING AND PERMITTING

SUBJECT: DRAFT ENVIRONMENTAL ASSESSMENT (DEA) FOR PETERSON
LANE SEWER REHABILITATION, SMPR 92 AND PUA LANE SEWER
REHABILITATION, SMPR 93

This is in response to your letter dated July 1, 2005 requesting comments for the proposed sewer rehabilitation projects. We have reviewed the DEA and have the following comment:

1. Section 2.6 Proposed Action (p. 2-3) should discuss the sizing of the replacement sewer lines and how hydraulic capacity is to be increased to address present and future needs. Will the new sewer lines have a larger diameter to accommodate future flows? Or will any gains in sewer capacity be the result of reducing infiltration rather than increasing pipe size?
2. The discussion of the General Plan and the PUC Development Plan (p. 5-1) should state that sewer repairs are one of the City's priorities. The following policies should be cited:
 - a. The General Plan states to improve utilities in existing neighborhoods to reduce substandard conditions, and give primary emphasis to maintaining and improving existing roads and utilities.
 - b. The PUC DP states to correct existing sewer inadequacies in established areas.
 - c. The Kalihii-Palama Action Plan (2004), a DP special area plan, states to replace aging sewer lines in Kalihii-Palama's mixed-use areas, as part of the revitalization of those areas.
3. Section 8: Explain why a Grubbing, Grading and Stockpiling Permit is required.
4. Section 8: The project will require a trenching permit. Construction plans shall be submitted to DPP for One Time Review.

If you have any questions, please contact Mr. Scott Guah of the Wastewater Branch at 523-4886.

HE:dl
(4/10/05)

DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY AND COUNTY OF HONOLULU
840 SOUTH KING STREET, 17TH FLOOR
HONOLULU, HAWAII 96813
Phone: (808) 523-4184 • Fax: (808) 523-4187
Web Site: WWW.CITYANDCOUNTY.HI



WAYNE M. HASHIRO, P.E.
DIRECTOR

WAYNE M. HASHIRO, P.E.
DIRECTOR

WPM/CS 05-142

September 26, 2005

MEMORANDUM

TO: HENRY ENG. FAICP, DIRECTOR
DEPARTMENT OF PLANNING AND PERMITTING

ATTN: SCOTT GUSHI, WASTEWATER BRANCH

FROM: *Wayne M. Hashiro*
WAYNE M. HASHIRO, P.E., DIRECTOR

SUBJECT: DRAFT ENVIRONMENTAL ASSESSMENT
PETERSON LANE (SMPR 92) AND PUA LANE (SMPR 93) SEWER
REHABILITATION
JOB NO. W5-05
TAX MAP KEY: 1-5-04-05 & 06; 1-5-01; 1-7-79 & 31

Thank you for your review of the subject and the comments received in the reference. The following information responds to comments within the reference memorandum 05WWB096(SG) dated August 2, 2005:

1. Replacement sewer lines are increased one size (8" to 10", 10" to 12", etc.) on Pua Lane and North King Street to accommodate present and future flows. Wastewater flows will be decreased by reducing infiltration (Sec. 2.6).
2. Your comments (policies of the General Plan and Development Plan) will be included in the subject (Sec. 5.1).
3. The requirement of a Grubbing, Grading and Stockpiling Permit will be deleted (Sec. 8.2).
4. A Trenching Permit requirement will be included in the subject (Sec. 8.2).

A "Design Alternative Report, August 2004" was developed for this project. If there are any questions, please feel free to call Clifford Kanda at 523-4963.

DEPARTMENT OF FACILITY MAINTENANCE
CITY AND COUNTY OF HONOLULU
 1000 ULUKOHA STREET, SUITE 215, KAPOLEI, HAWAII 96707
 TELEPHONE: (808) 472-5064 FAX: (808) 472-5857
 Website: www.honolulu.gov



LAVERNE HIGA, P.E.
 DIRECTOR AND CHIEF ENGINEER
 GEORGE H. ANTIAMOTO
 DEPUTY DIRECTOR
 MARY KATER ID:
 DRM 05-736

RECEIVED
 AUG 1 2005
 ENGINEER & ARCHITECTS LTD.

MAUI HARRISMAN
 MAYOR

MEMORANDUM

TO: WAYNE M. HASHIRO, P.E., DIRECTOR
 DEPARTMENT OF DESIGN AND CONSTRUCTION

FROM: *Wayne Higa*
 LAVERNE HIGA, P.E., DIRECTOR AND CHIEF ENGINEER
 DEPARTMENT OF FACILITY MAINTENANCE

SUBJECT: DRAFT ENVIRONMENTAL ASSESSMENT (DEA) FOR PETERSON LANE
 SEWER REHABILITATION, SMPR 92 AND PUJA LANE SEWER
 REHABILITATION, SMPR 93 (WW.CS 05-096)

Thank you for the opportunity to review the subject DEA.

To lessen the impact on the project roadways we request that open trench construction be kept to a minimum and utilized where other less destructive methods may not be feasible. We therefore request that the determination to install the newer sewer line by only open trench construction be re-evaluated.

Returned for your use is the DEA document.

Should you have any questions, please call Charles Pignataro of our Division of Road Maintenance, at 484-7697.

Attachment

cc: Akinaka & Associates, Ltd.

DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY AND COUNTY OF HONOLULU
 840 SOUTH KING STREET, 11TH FLOOR
 HONOLULU, HAWAII 96813
 Phone: (808) 532-4846 • Fax: (808) 532-4847
 Web Site: www.honolulu.gov



WAYNE M. HASHIRO, P.E.
 DIRECTOR
 FLORENCE C. LEE, P.E.
 DEPUTY DIRECTOR

WW.CS 05-146

September 26, 2005

MEMORANDUM

TO: LAVERNE HIGA, P.E., DIRECTOR AND CHIEF ENGINEER
 DEPARTMENT OF FACILITY MAINTENANCE

ATTN: CHARLES PIGNATARO
 DIVISION OF ROAD MAINTENANCE

FROM: *Wayne M. Hashiro*
 WAYNE M. HASHIRO, P.E., DIRECTOR

SUBJECT: DRAFT ENVIRONMENTAL ASSESSMENT
 PETERSON LANE (SMPR 92) AND PUJA LANE (SMPR 93) SEWER
 REHABILITATION
 JOB NO. W-5-05
 TAX MAP KEY: 1-5-04, 05 & 06; 1-5-01; 1-7-29 & 31

Thank you for your review of the subject and the comments received in the reference letter DRM 05-736 dated July 26, 2005. Open trench construction was compared with less destructive methods such as pipe bursting and cured-in-place piping (CIPP) and selected due to the following:

- a. The sewer lines must be increased in size to have sufficient capacity to accommodate present and future flows.
- b. There are numerous sags in the existing sewer lines.
- c. The only currently available option to open trench construction for increasing the pipe size is pipe bursting. However, pipe bursting will not correct the sags in the pipe profile.

If there are any questions, please feel free to call Clifford Kanda at 523-4963.



DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY AND COUNTY OF HONOLULU

650 SOUTH KING STREET, 11TH FLOOR
HONOLULU, HAWAII 96813
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Web site: www.honolulu.gov



MURTI HANDESHAM
MAYOR

WATNE M. WALSHO, P.E.
DIRECTOR
EUGENE C. LEE, P.E.
DEPUTY DIRECTOR

WW.P 05-0349

August 2, 2005

MEMORANDUM

TO: MR. GUY INOUE, BRANCH HEAD
WASTEWATER DESIGN BRANCH

FROM: *Jay K. Hamal*
JAY K. HAMAL, ASSISTANT CHIEF
WASTEWATER PLANNING BRANCH

SUBJECT: DRAFT ENVIRONMENTAL ASSESSMENT FOR PETERSON LANE
SEWER REHABILITATION, SMPR 92 AND PUA LANE SEWER
REHABILITATION, SMPR 93

Following are comments from the Planning Branch on the Draft Environmental Assessment for the subject project dated March 2005 for your use:

1. Figure titled Location Map following Figure 1.1. The manhole ID numbers shown are obsolete, use the current manhole ID numbers called "sewer id." It is acceptable to show both the old ISAP numbers and the sewer id numbers. See Figure 2.1 for a good example.
2. Figure 2.1 Land Use Map. What is the "Land Use Map" showing? Is it based on the current Activity code or Facility code of the parcel? Should explain since there is no existing land use map used in the City.
3. Page 2-2, paragraph 2.5, second sentence. Revise sentence to read "Figure 2.1: Land Use Map show the existing use (activity or facility) of parcels adjacent to the sewer lines."

If there are any questions, please call me at 5003.

DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY AND COUNTY OF HONOLULU

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MURTI HANDESHAM
MAYOR

WATNE M. WALSHO, P.E.
DIRECTOR
EUGENE C. LEE, P.E.
DEPUTY DIRECTOR

WW/CS 05-144

September 26, 2005

MEMORANDUM

TO: JAY K. HAMAL, ASSISTANT CHIEF
WASTEWATER PLANNING BRANCH

FROM: *Eldon Franklin*
ELDON FRANKLIN, CHIEF
WASTEWATER DIVISION

SUBJECT: DRAFT ENVIRONMENTAL ASSESSMENT
PETERSON LANE (SMPR 92) AND PUA LANE (SMPR 93) SEWER
REHABILITATION
JOB NO. W5-05
TAX MAP KEY: 1-5-04_05 & 06; 1-6-01; 1-7-29 & 31

Thank you for your review of the subject and the comments received in the reference memorandum WW.P 05-0239. The project Sewer Line Map (Figure 1.2) will be revised to include the Manhole Sewer ID Numbers. On page 2-2, a statement will be added to indicate that Figure 2.1 reflects the land use found during field observations. In Section 2.5 SURROUNDING USES, the second sentence will be revised to read "Figure 2.1 Land Use Map show the existing use (activity or facility) of parcels adjacent to the sewer lines".

If there are any questions, please feel free to call Clifford Kanda at 4963.

DEPARTMENT OF TRANSPORTATION SERVICES
CITY AND COUNTY OF HONOLULU

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AUG 9 AM

TRANSPORTATION

EDWARD Y. HIRATA

TP6/05-110422R

August 5, 2005

MEMORANDUM

TO: WAYNE M. HASHIRO, P.E., DIRECTOR
DEPARTMENT OF DESIGN AND CONSTRUCTION

ATTN: ROGER KOBAYASHI

FROM: EDWARD Y. HIRATA, DIRECTOR

SUBJECT: PETERSON AND FUA LANES SEWER REHABILITATION,
SMPR 92 AND 93

Thank you for your July 1, 2005 memorandum requesting our review of and comments on the draft environmental assessment for the subject project.

We have the following comments relating to Section 4.12 TRAFFIC (Page 4-3) as the result of our review:

1. The first sentence does not correctly reflect State Department of Transportation comments. Traffic control measures on City streets should be discussed. The project impacts on traffic and proposed mitigation measures have not been adequately discussed.
2. The construction phasing and preparation of traffic control plans for each phase have not been discussed.
3. In addition to scheduling work at night on North King Street, limiting construction work to off-peak hours should be discussed further.

Wayne M. Hashiro, P.E., Director
Page 2
August 5, 2005

4. City bus personnel should be kept apprised of the proposed project and the impacts the project may have on the surrounding area. As a reminder, the following note should be included on future construction plans: The Contractor shall notify Oahu Transit Services (OTS) of the scope of work, location, proposed closure of any street, traffic lane, or bus stop and duration of project, at least two weeks prior to construction, by calling TheBus (Ed Sniffen 848-4571 or Lowell Tom 848-4578) and The HandiVan (Art Loeb 454-5085 or John Black 454-5041).

5. The project will impact bus service on North King Street. Therefore, we concur with the plans to schedule work on that segment at night.

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

EDWARD Y. HIRATA

cc: Mr. Henry Morita
Akinaka & Associates, Ltd.

DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY AND COUNTY OF HONOLULU

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MAYOR

WAYNE M. HIRATA, P.E.
DIRECTOR
BRIAN C. HUI, P.E.
DEPUTY DIRECTOR

WW/CS-03-149

September 26, 2005

MEMORANDUM

TO: EDWARD Y. HIRATA, DIRECTOR
DEPARTMENT OF TRANSPORTATION SERVICES

ATTN: FAITH MIYAMOTO
TRANSPORTATION PLANNING DIVISION

FROM: f- WAYNE M. HASHIRO, P.E., DIRECTOR

SUBJECT: DRAFT ENVIRONMENTAL ASSESSMENT
PETERSON LANE (SMR 92) AND PUA LANE (SMR 93) SEWER
REHABILITATION
JOB NO. W5-05
TAX MAP KEY: 1-5-04_05 & 06; 1-6-01; 1-7-29 & 31

Thank you for your review of the subject and the comments received in the reference memorandum TP605-110422R dated August 5, 2005. The first sentence of Section 4.12 TRAFFIC will be revised to reflect State Department of Transportation comments. Traffic control plans will be submitted to the appropriate agencies for review and approval during the design process. The DEA will include discussions of limiting work to off-peak traffic hours.

Your note regarding notification by the Contractor to the Oahu Transit Service for project status will be included in the construction plans.

If there are any questions, please feel free to call Clifford Kanoda at 523-4963.

BOARD OF WATER SUPPLY
CITY AND COUNTY OF HONOLULU
600 SOUTH BERETANIA STREET
HONOLULU, HI 96813



July 12, 2005

RECEIVED

JUL 15 2005

AKINAKA & ASSOCIATES, LTD.

TO: MR. WAYNE M. HASHIRO, P.E., DIRECTOR
DEPARTMENT OF DESIGN AND CONSTRUCTION

ATTN: MR. ROGER KOBAYASHI

FROM: *K. S. Jamile*
for CLIFFORD S. JAMILE, MANAGER AND CHIEF ENGINEER
BOARD OF WATER SUPPLY

SUBJECT: YOUR MEMORANDUM OF JULY 1, 2005, ON THE DRAFT
ENVIRONMENTAL ASSESSMENT FOR PETERSON LANE SEWER
REHABILITATION, SMPR 92 AND PUA LANE SEWER
REHABILITATION, SMPR 93

Our comments in our letter of February 17, 2005, which are included in the draft environmental assessment, are still applicable.

If you have any questions, please contact Joseph Kaakua at 748-5442.

cc: Mr. Henry Morita, Akinaka & Associates, Ltd.

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DAVID M. HARRIS
MAYOR

WAYNE M. HASHIRO, P.E.
DIRECTOR

ROBERT S. LEE, P.E.
DEPUTY DIRECTOR

WWW.CS.05-145

September 26, 2005

MEMORANDUM

TO: DONNA FAY K. KIYOSAKI, DEPUTY MANAGER AND CHIEF ENGINEER
BOARD OF WATER SUPPLY

ATTN: JOSEPH KAAKUA

FROM: *J. Wayne M. Hashiro*
Wayne M. Hashiro, P.E., DIRECTOR

SUBJECT: DRAFT ENVIRONMENTAL ASSESSMENT
PETERSON LANE (SMPR 92) AND PUA LANE (SMPR 93) SEWER
REHABILITATION
JOB NO. WS-05
TAX MAP KEY: 1-5-04.05 & 06; 1-6-01; 1-7-29 & 31

Thank you for your review of the subject and the comments received in the reference letter dated July 12, 2005. The construction drawings will be submitted for your review and approval. We will coordinate the construction schedule to minimize impact to the water system.

If there are any questions, please feel free to call Clifford Kanda at 523-4963.