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*Final*  
*Environmental Assessment*  
**LAHAINA WASTEWATER PUMP  
STATION NOS. 5 AND 6 -  
FORCE MAIN IMPROVEMENTS**

Prepared for:

September 2002

County of Maui,  
Department of Public  
Works and Waste Management

  
MUNEKIYO & HIRAGA, INC.

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Preface

The applicant, the County of Maui, Department of Public Works and Waste Management, proposes force main improvements for Wastewater Pump Station Nos. 5 and 6 in Lahaina, Maui. The proposed improvements, which involve TMK plats 4-6-2, 3, 5, 6, 7, 10, 11, 12, 15, 16 and 27, will extend a distance of about 1.3 miles and will be installed along Shaw Street, as well as portions of Front, Mill and Dickenson Streets. In addition, the force main will cross Honoapiilani Highway at its intersections with Shaw and Dickenson Streets.

Since the proposed action falls within the limits of the Lahaina National Historic Landmark District and involves the use of County funds, as well as the use of State and County rights-of-way (Honoapiilani Highway and Front, Shaw and Dickenson Streets), an Environmental Assessment (EA) has been prepared as required by Chapter 343, Hawaii Revised Statutes to document the proposed action's technical characteristics, environmental impacts and alternatives, as well as *advance findings and conclusions* relative to the significance of the project.

# ***Chapter 1***

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## ***Project Overview***



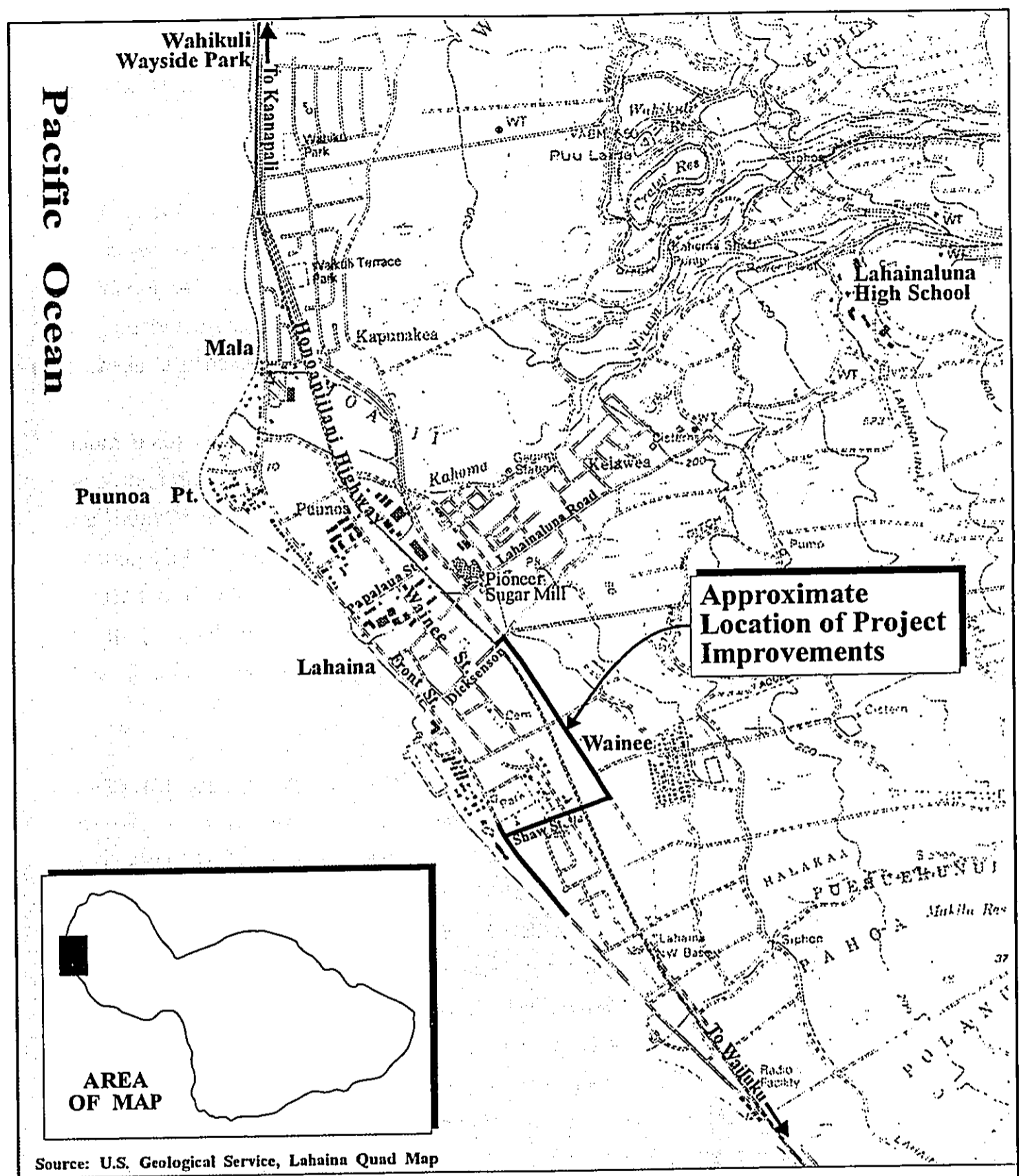
## **I. PROJECT OVERVIEW**

### **A. PROPOSED ACTION**

The applicant, the County of Maui, Department of Public Works and Waste Management (DPWWM), proposes force main improvements for Wastewater Pump Station Nos. 5 and 6 in Lahaina, Maui. See Figure 1. The project alignment traverses lands that are characterized by residential, hotel, business, park, public, and former agricultural uses.

The proposed project will involve the installation of a new force main within the County roadway rights-of-way along Shaw Street and portions of Front and Dickenson Streets, as well as along Mill Street, an agricultural road that is owned and maintained by Pioneer Mill Company, Ltd. In addition, the project will involve work within the Honoapiilani Highway right-of-way, as the force main will cross the highway at its intersections with Shaw and Dickenson Streets. See Figure 2 and Appendix "A".

The project will involve replacing the existing 12-inch cast iron (CI) force main between Pump Station Nos. 5 and 6 with a new 12-inch polyvinylchloride (PVC) force main. In addition, the project will involve the installation of a new 16-inch PVC and high-density polyethylene (HDPE) force main from Pump Station No. 5 to a new sewer transition manhole at the intersection of Mill and Dickenson Streets. From this point, a new 16-inch gravity sewerline will connect to an existing 21-inch gravity sewerline at a new sewer manhole at the Honoapiilani Highway and Dickenson Street intersection. Approximately 1,960 LF of new 12-inch force main and 270 LF of new 16-inch force main (total 2,230 LF) will be installed along Front Street, while about 4,750 LF of new 16-inch force main will be installed along Shaw Street (1,650 LF), Mill Street (2,850 LF), and Dickenson Street (250 LF). The new 16-inch force main will replace

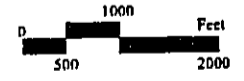


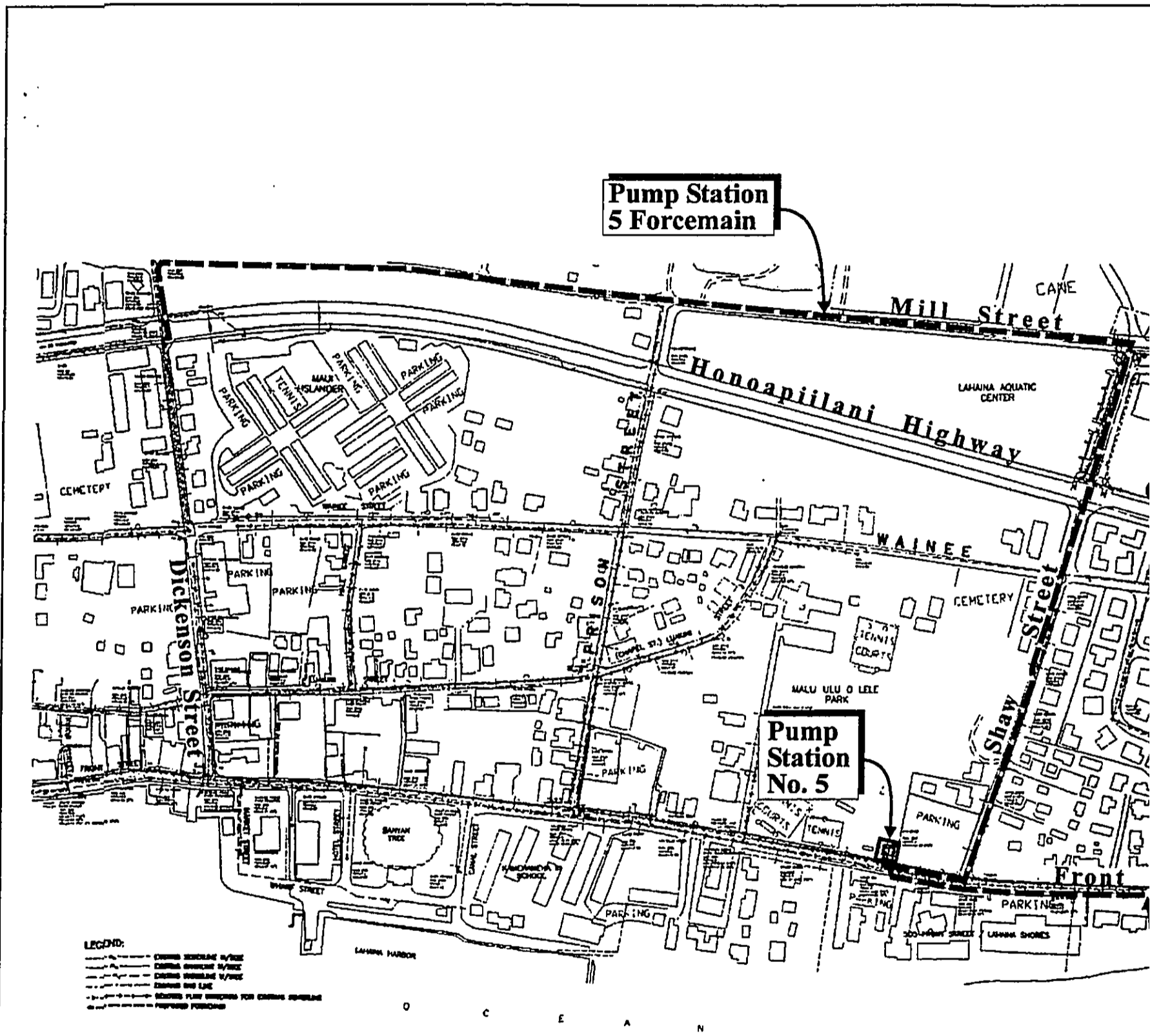
Source: U.S. Geological Service, Lahaina Quad Map

**Figure 1 Lahaina Wastewater Pump Station  
Nos. 5 and 6 - Force  
Main Improvements  
Regional Location Map**

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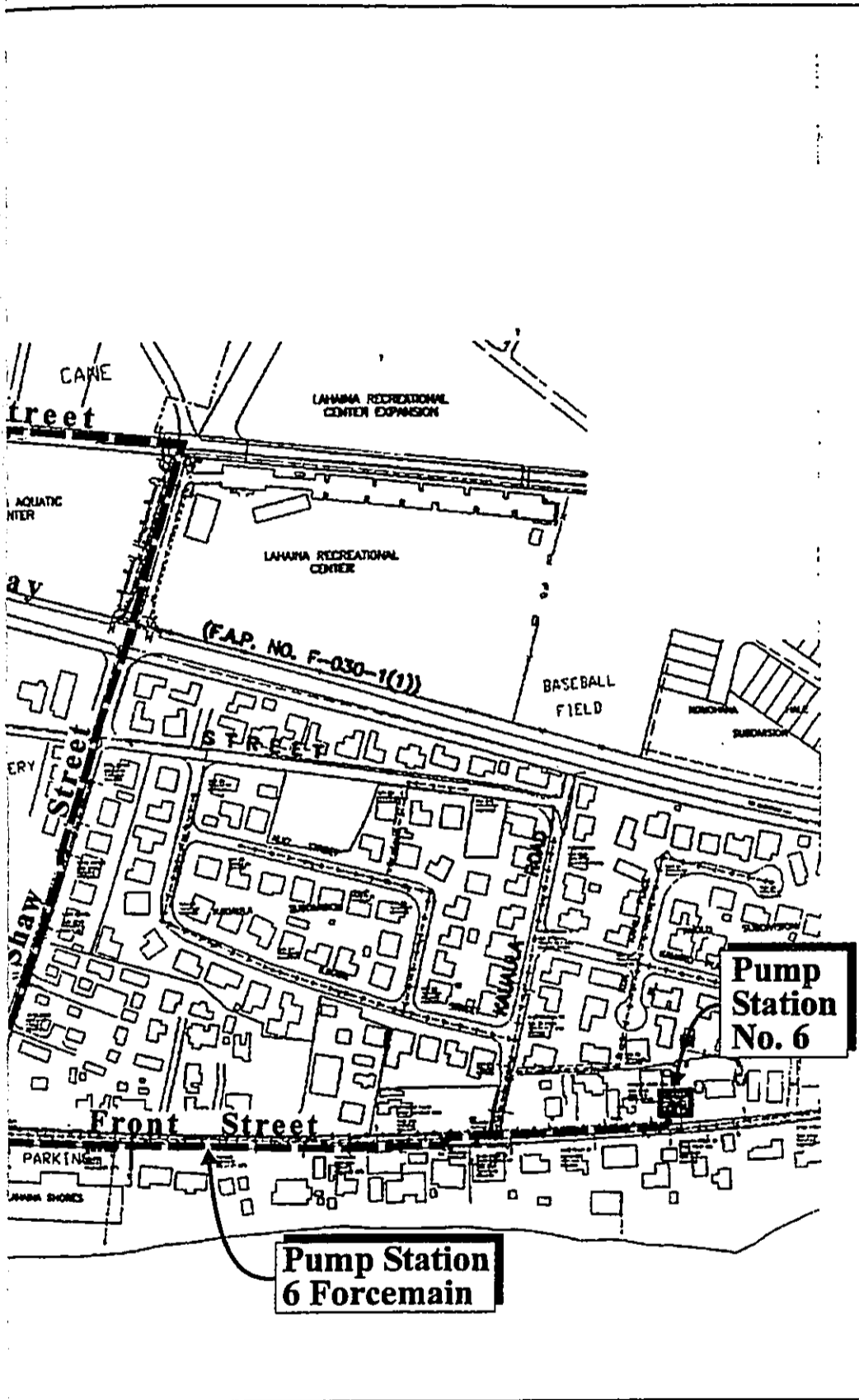
Source: Ronald M. Fukumoto Engineering, Inc.

Figure 2

Lahaina Wastewater Pump Station Nos. 5 and Force Main Improvements Preliminary Site Plan



Prepared for: County of Maui, Department of Public Works and Waste Management



Nos. 5 and 6  
ents

NOT TO SCALE

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the existing 12-inch CI force main from Pump Station No. 5 to an existing 12-inch gravity sewer manhole at the intersection of Front Street and the former Kukui Street.

Installation will be accomplished by excavating and backfilling (aka, cut and cover) a trench for the new force main. Depending on the depth and location of other subsurface utilities within the roadway rights-of-way, excavation will vary in depth from 4 to 7 feet, with a minimum of 3 feet of cover to be provided.

In addition to the force main installation, additional improvements will include upgrading Pump Station Nos. 5 and 6 with new motors and pumps, as well as modifications to connect to the new force main. The increase in force main size, and upgrades in the pumps and motors, are necessary in order to handle the increased resistance factor in pumping the wastewater flow to the higher elevation on Honoapiilani Highway. Upon completion of the project, the abandoned force mains will be flushed-out and capped.

In connection with the development of the project, an easement from Pioneer Mill will be required for the installation of the new force main within the Mill Street right-of-way.

The estimated cost of the project is approximately \$2.5 million. Construction of the project is expected to commence by the end of 2002 and is anticipated to take approximately nine (9) months.

**B. PROJECT NEED**

Pump Station No. 6 (Kauaula) receives sewage from Pump Station No. 7 (Puamana), the southern-most County of Maui pump station in Lahaina.

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Pump Station No. 6 then pumps effluent through 1,900 LF of existing 12-inch CI pipe located within the Front Street right-of-way. This force main was installed in 1965 as part of the Lahaina Sewerage System District "B" project. The force main connects directly into the existing 12-inch force main located immediately makai of Pump Station No. 5 (Malu Ulu O Lele), and bypasses this pump station.

Pump Station No. 5 (Malu Ulu O Lele) is located adjacent to the Malu Ulu O Lele Park. Pump Station No. 5 pumps effluent through 2,500 LF of existing 12-inch CI pipe located within the Front Street right-of-way. This force main was installed in 1948 as part of the Lahaina Sewerage System District "A" project. The force main discharges into a transition manhole located at the intersection of Front Street and Kukui Street, in the heart of Lahaina Town. Portions of this force main were uncovered during the Front Street Improvements project and corrosion was observed to the pipe joint clamps.

The proposed improvements are necessary due to the age and deteriorated condition of the existing force main. When compared to the existing force main route, the proposed alignment will substantially minimize disruptions to vehicular and pedestrian traffic and the business and residential areas along Front Street during repair and maintenance activities, as well as remove the possibility of potential impacts to nearshore water quality in the event the force main is damaged.

C. **REGULATORY CONTEXT**

The proposed action falls within the limits of the Lahaina National Historic Landmark District, and involves the use of County funds as well as the use of State and County roadway rights-of-way (Honoapiilani Highway and Front, Shaw and Dickenson Streets). Accordingly, an Environmental

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Assessment (EA) has been prepared as required by Chapter 343, Hawaii Revised Statutes (HRS). In addition, the proposed alignment is located within the limits of the County of Maui's Special Management Area (SMA). Consultation with the County of Maui, Department of Planning has preliminarily indicated that the proposed action is exempt from SMA permitting requirements, as it involves the installation of underground utilities and appurtenant above-ground fixtures less than four (4) feet in height along existing corridors. An SMA assessment application will be submitted to the department upon completion of the environmental review process for a final determination.

# ***Chapter II***

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***Description of Existing  
Environment, Impacts  
and Mitigation Measures***



## **II. DESCRIPTION OF EXISTING ENVIRONMENT, IMPACTS AND MITIGATION MEASURES**

### **A. LAND USE**

#### **1. Existing Conditions**

Residential properties reflect the predominant land use within the segment of the project corridor along Front Street. Other land uses within this segment include the Lahaina Shores Resort (hotel/condominium) and 505 Front Street (shopping complex). With frontage along both Front and Shaw Streets, a public parking lot and Malu Ulu O Lele Park border these segments of the project corridor. Between Front Street and Honoapiilani Highway, residential properties along Shaw Street typify the primary land use, while other uses include the Lahaina Salvation Army and Thrift Store, as well as the Waiola Church and cemetery. From Honoapiilani Highway to Mill Street, the Lahaina Aquatic Center and the Lahaina Recreational Center and Expansion Area comprise other land uses along Shaw Street. Land use along Mill Street is characterized by former agricultural parcels which were cultivated with sugar cane. A convenience store comprises the principal land use along the segment of the project corridor between Mill Street and Honoapiilani Highway.

#### **2. Impacts and Mitigation Measures**

The proposed force main installation is not anticipated to adversely impact surrounding land uses. The proposed action is intended to enhance the existing wastewater system for Lahaina by improving system operations and will not alter land use patterns nor will it affect market demands for specific land uses along the project corridor. In addition, as an infrastructure component located within existing rights-of-way and easements, the proposed force main will

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not create any long-term physical impacts to surrounding uses.

**B. CLIMATE, TOPOGRAPHY AND SOILS**

**1. Existing Conditions**

**a. Climate**

Like most areas of Hawaii, Lahaina's climate is relatively uniform year-round. Lahaina's tropical latitude, its position relative to storm tracts and the Pacific anticyclone, and the surrounding ocean combine to produce this stable climate. Variations in climate among different regions, then, is largely left to local terrain.

In Lahaina, August is historically the warmest month with an average high temperature of approximately 88 degrees Fahrenheit and average low temperature of 70 degrees Fahrenheit. January is normally the coolest month of the year with an average high temperature of 80 degrees Fahrenheit and an average low temperature of approximately 62 degrees Fahrenheit.

Rainfall at Lahaina is highly seasonal, with most precipitation occurring from November to April when winter storms hit the area. Precipitation data for 1997 shows that on average, January was the wettest month, with 10.01 inches of rainfall, while May, August, September and October were the driest with no rainfall at all. Total precipitation for the year was 16.68 inches, and average monthly rainfall was 1.39 inches (Maui County Data Book, 2000).

The winds in the region are also seasonal. The

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northeasterly tradewind occurs 90 percent of the time during the summer, and just 50 percent of the time in the winter. Wind patterns also vary on a daily basis, with tradewinds generally being stronger in the afternoon. During the day, winds blow onshore toward the warmer land mass. In the evening, the reverse occurs, as breezes blow toward the relatively warm ocean.

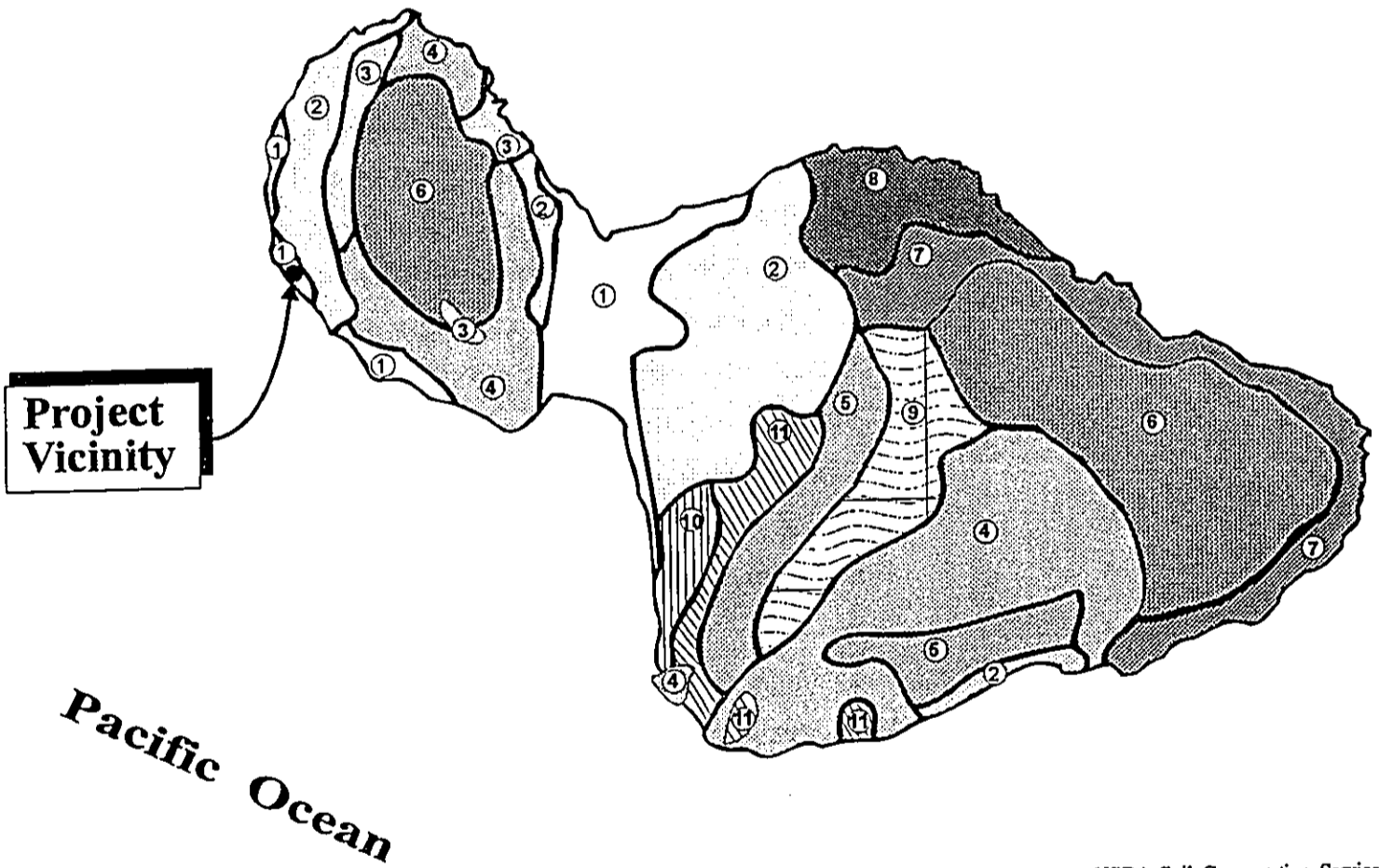
**b. Topography and Soils**

The topography along the project corridor varies from nearly level to gently sloping. The elevation at Pump Station No. 6 is about 11.5 feet above mean sea level (amsl), while at Pump Station No. 5 the elevation is approximately 4.2 feet amsl. From the intersection of Front and Shaw Streets, where the elevation is about 6.3 feet amsl, the terrain rises to an elevation of approximately 18.7 feet at the Shaw and Mill Street intersection and continues to rise to an elevation of about 35.0 feet amsl at a point near the Mill and Dickenson Street intersection. From this point, the topography slopes to an elevation of approximately 28.8 feet amsl at the intersection of Dickenson Street and Honoapiilani Highway.

Soils underlying the project corridor belong to the Pulehu-Ewa-Jaucas association. See Figure 3. Ewa silty clay loam (EaA) is the Ewa Series soil type specific to the site. See Figure 4. Ewa silty clay loam is characterized by slopes of 0 to 3 percent, very slow runoff, and very slight erosion hazard. Vegetation normally associated with this series include fingergrass, kiawe, koa haole, klu and uhaloa.

## LEGEND

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|---|---|
| <p>① Pulchra-Ewa-Jaucas association</p> <p>② Waiakoa-Kauhua-Molokai association</p> <p>③ Honolulu-Olelo association</p> <p>④ Rock land-Rough mountainous land association</p> <p>⑤ Puu Pa-Kula-Pane association</p> <p>⑥ Hydrandepts-Tropaquods association</p> | <p>⑦ Hana-Makaalae-Kailua association</p> <p>⑧ Pauwela-Haiku association</p> <p>⑨ Laumala-Kaipoi-Olinda association</p> <p>⑩ Keawakapu-Makena association</p> <p>⑪ Kamaole-Oanapuka association</p> |
|---|---|



Map Source: USDA Soil Conservation Service

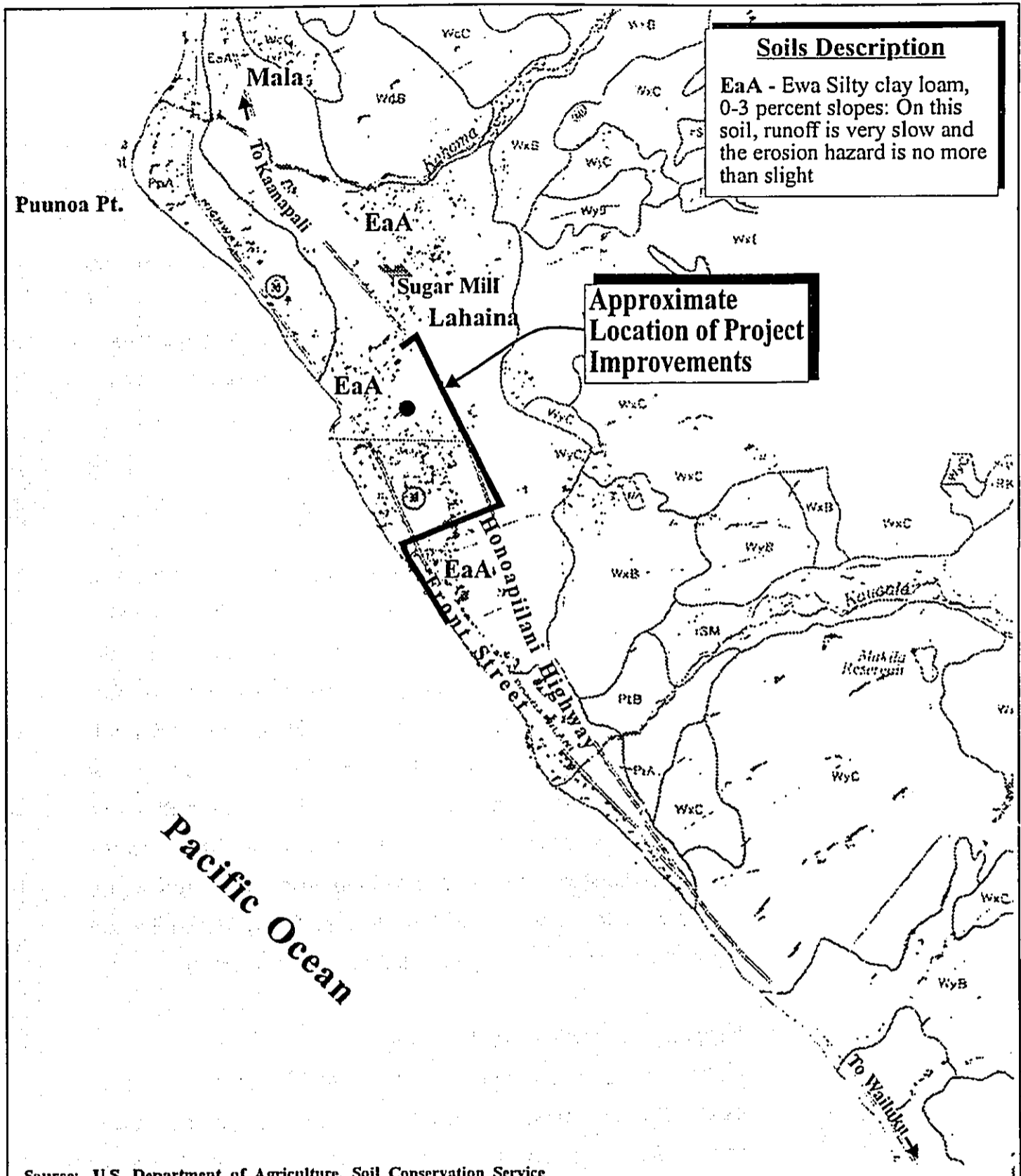
**Figure 3 Lahaina Wastewater Pump Station**  
**Nos. 5 and 6 - Force**  
**Main Improvements**  
**Soil Association Map**

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Source: U.S. Department of Agriculture, Soil Conservation Service

**Figure 4 Lahaina Wastewater Pump Station  
Nos. 5 and 6 - Force  
Main Improvements  
Soil Classification Map**



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2. **Impacts and Mitigation Measures**

No negative effects to these elements of the natural environment are expected as a result of the proposed action. The potential presence of coral or beach rock ledges, alluvial channels, and boulder and cobble zones within the alluvium, will be explored in detail during the next engineering design phase of the project. The proposed force main will be installed within existing rights-of-way and easements and will not alter local topographic and soil conditions.

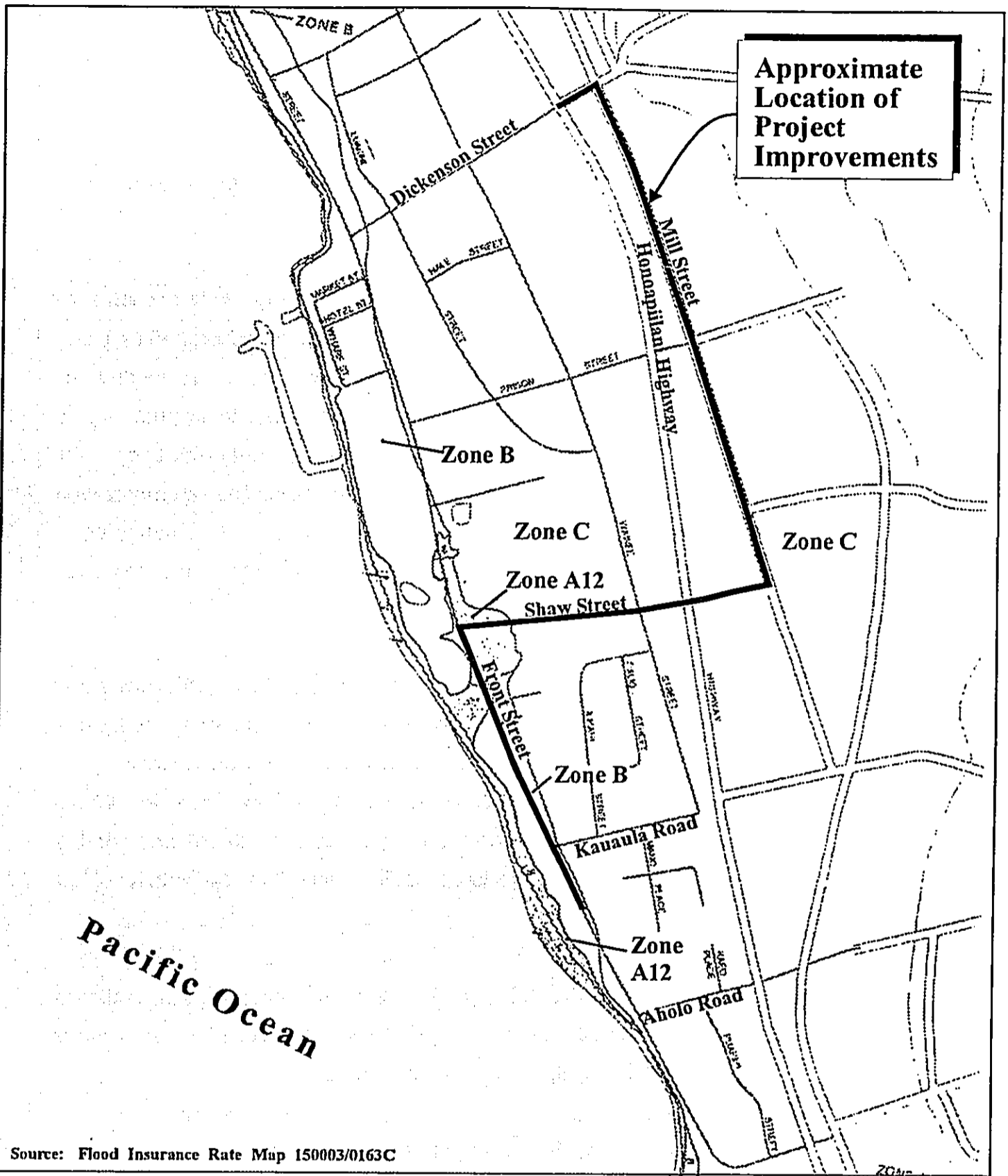
C. **FLOOD AND TSUNAMI HAZARDS**

1. **Existing Conditions**

According to the flood insurance rate map for this region of Maui, the proposed force main route traverses lands which primarily fall within Zone C, areas of minimal flooding. Along certain parts of the route, the alignment passes through areas which are susceptible to flooding. About 1,200 feet of the Front Street segment north of Pump Station No. 6 falls within the limits of Zone B, areas between the limits of the 100- and 500-year floods. From Pump Station No. 5, to a point approximately 450 feet south of the Front and Shaw Street intersection, about 700 feet of the Front Street segment and 220 feet of the western-most section of Shaw Street lie within Zone A-12, areas of 100-year flooding. See Figure 5.

2. **Impacts and Mitigation Measures**

No adverse effects from flood and tsunami hazards are expected as a result of the proposed action. The installation of the proposed force main will be coordinated with the County of Maui, Department of Planning to ensure that applicable flood hazard area development standards are addressed.



Source: Flood Insurance Rate Map 150003/0163C

**Figure 5 Lahaina Wastewater Pump Station** NOT TO SCALE  
**Nos. 5 and 6 - Force**  
**Main Improvements**  
**Flood Insurance Rate Map**



Prepared for: County of Maui, Dept. of Public Works and Waste Management

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**D. FLORA AND FAUNA**

**1. Existing Conditions**

Plant life along the project corridor is typical of the developed and undeveloped properties adjoining the roadway.

Along Mill Street, undeveloped parcels are typically occupied by koa haole and scrub vegetation, while developed properties along the remainder of the project corridor are characterized by landscaping typical of single-family residential developments and ornamental landscaping generally associated with hotel/condominiums and shopping complexes. Due to urbanization along the project corridor, there are no known rare, endangered or threatened species of plant life in the vicinity of the proposed project.

Animal life along the project corridor is typical of the urbanized regions of West Maui. Fauna typically found in the vicinity include cats, dogs, rats, and mongoose, as well as the House Finch, Zebra Dove, Spotted Dove, Common Mynah, and the Japanese White-Eye. There are no known rare, endangered or threatened species of animal life or significant habitats found in the vicinity of the proposed project.

In addition, the U.S. Department of the Interior's National Wetlands Inventory Map does not reveal any wetland areas located along or in close proximity of the project corridor.

**2. Impacts and Mitigation Measures**

The proposed force main installation will occur within existing rights-of-way and easements. No adverse impacts to flora, fauna



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or avifauna within the project corridor are anticipated.

**E. AIR AND NOISE CHARACTERISTICS**

**1. Existing Conditions**

The Lahaina region in general does not experience adverse air quality conditions. There are no point sources of airborne emissions in the immediate vicinity and the air quality at the subject property is considered good. Airborne pollutants that do exist can largely be attributed to vehicular exhaust from Honoapiilani Highway and other surrounding roadways. These sources are intermittent, however, and the prevailing tradewinds will disperse particulates generated by these temporary sources.

Existing background noise in the vicinity of the site is principally attributed to traffic on Honoapiilani Highway and surrounding local roadways. In addition, the flight paths of arriving and departing aircraft at the Kapalua West Maui Airport, located about 6.0 miles to the north of the project corridor, place the route beyond the limits of aircraft noise exposure.

**2. Impacts and Mitigation Measures**

As may be required, a Community Noise Permit from the State Department of Health will be obtained for project-related construction activities. Beyond the installation period, there will be no adverse impacts to air and noise parameters along the project corridor. The installation of the force main is not anticipated to create significant adverse impacts to ambient air and noise conditions.

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**F. ARCHAEOLOGICAL RESOURCES**

**1. Existing Conditions**

The project corridor is located within the boundaries of the Lahaina National Historic Landmark District, an area listed on the National Register of Historic Places.

The lands underlying the Honoapiilani Highway and Shaw, Mill and Dickenson Streets rights-of-way were previously disturbed during the initial construction of these roadways, as well as during subsequent roadway and utilities improvements, and repair and maintenance activities.

As part of the early consultation process for the preparation of this Environmental Assessment (EA), project team members met with the State Historic Preservation Division (SHPD) to discuss archaeological considerations relative to the proposed project. As a result of this meeting, the SHPD recommended that an archaeological inventory survey, in the form of archaeological monitoring during construction, be undertaken for the segments of the project corridor involving Front and Shaw Streets. It was also recommended that archaeological monitoring be undertaken for the sections of the project involving Mill and Dickenson Streets. However, should significant cultural deposits be located during work along Shaw Street, the SHPD recommended that an archaeological inventory survey, in the form of archaeological monitoring, be conducted for work involving Mill and Dickenson Streets. In addition, the SHPD recommended that a flat-edged bucket be used in sandy areas due to the potential of locating human remains and cultural artifacts. It was also recommended that an archaeologist inspect the test boring samples from the

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geotechnical drilling for the project's engineering design phase.

2. **Impacts and Mitigation Measures**

While the construction of Honoapiilani Highway and Shaw, Mill, and Dickenson Streets involved excavation and grading which have likely diminished the probability of locating intact subsurface cultural deposits beneath the roadway surface, archaeological monitoring during construction will be undertaken as recommended by SHPD. In connection with the monitoring, an archaeological monitoring plan will be submitted to the SHPD for review and approval prior to the start of construction and a report documenting the findings of monitoring activities will be submitted upon completion of the project. In addition, a flat-edged bucket will be utilized in sandy areas and an archaeologist will inspect the test boring samples from the geotechnical drilling.

In the event that archaeological features, cultural artifacts, or human remains are encountered during archaeological monitoring for the installation of the force main, work shall cease in the immediate area of the find and the find shall be protected from further damage. In addition, the SHPD shall be promptly notified to assess the significance of the find and recommend appropriate mitigative measures, if necessary.

G. **CULTURAL IMPACT ASSESSMENT**

1. **Historic Overview**

The Lahaina District is described as a rich agricultural oasis watered from nearby valleys (Handy and Handy, 1972). This oasis "extended about three leagues in length (about nine miles along the coast) and one (three miles) in breadth. Beyond this, all is dry

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and barren." The name Lahaina ("cruel sun") likely refers to the droughts that affected the surrounding area from time to time (Pukui et al., 1974, p.127). In pre-contact times, Lahaina itself was apparently a garden-like area with taro lo'i, ditches ('auwai) and separating embankments creating a verdant landscape. Brackish water and fresh water ponds (loko) were also present. At lower elevations, dry land cultivation took place in areas around alluvial fans, while at higher elevations lo'i and 'auwai systems were constructed within valleys for taro production. In coastal settlement areas, marine resources were utilized for subsistence. In Lahaina, several fishponds existed, of which two were most prominent, Loko o Mokuhinia and the smaller Loko Puako, around which intensive taro and breadfruit cultivation occurred. Scattered around the fishponds and taro lo'i, and situated on higher ground, were the homes of the laborers who worked the land. As suggested by Handy (1940, 1972), by late pre-contact times, the fairly sizable population dwelling in the region utilized coastal fishing areas and inland garden plots for subsistence, cultivating sweet potatoes near shore, or taro in terraced lo'i in the wetter valleys inland.

By the time of contact, the Lahaina region had become an important socio-political center and the residence of several powerful chiefs, most notably Kahekili, one of the highest ranking on Maui. Lahaina was considered by high chiefs to be a favorable place due to the abundance of natural resources and its close proximity to the islands of Lana'i and Moloka'i (Handy and Handy, 1972).

In 1789, Kamehameha I invaded Maui and defeated Kahekili at the Battle of Kepaniwai O Iao (Speakman, 1978). In post-contact

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times, Lahaina became the center of the Hawaiian monarchy. Kamehameha I spent time there between his battles of conquest, while his son, Kamehameha III, resided in Lahaina in preference to Honolulu. Many high status individuals connected with the monarchy lived in Lahaina, even after the official capitol of the kingdom was moved to Honolulu in 1845.

In 1820, about 40 years after Captain James Cook's discovery of the Hawaiian Islands, the islands transitioned from the traditional Hawaiian social system to one influenced by New England whaling ships and missionaries. The population of West Maui continued to decline in the second half of the 19<sup>th</sup> century followed by the collapse of the Pacific whaling industry in the 1860's which was prompted by the discovery of oil in Pennsylvania a decade or so earlier. In the Lahaina area, sugar production developed in the mid-1800s, while further north, different crops were tried, including coffee and pineapples.

With the introduction of sugar cane cultivation and the importation of foreign labor to work on the plantation, the character of Lahaina changed. Combined with the industrialization of the local sugar industry, Lahaina emerged as a plantation town with residential camps surrounding the downtown commercial area. Although now reliant on the visitor industry, Lahaina Town's present character reflects a blend of its whaling and plantation era past.

In order to obtain a range of cultural impact perspectives, interviews were held with West Maui residents. Summaries of conversations with Mrs. Joan McKelvey and Mrs. Edna Bekeart follow.

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a. Joan McKelvey

Joan D'A.H. McKelvey was born in Australia. After leaving Australia in 1950, she traveled to Europe, Africa, America, and Japan where she lived in London, Germany, Casablanca, New York City and Tokyo. She first visited Lahaina in 1959 along with Jack Burns and William Shaw Richardson in connection with Burn's gubernatorial campaign. Joan and A.W. "Mac" McKelvey were married on Oahu in 1966. Kui Lee sang at the pre-wedding party for the couple. The McKelveys used to visit Maui on weekends where they stayed at a beach house at the site of the existing Kulakane Condominium. In 1969, the McKelveys moved to Maui where they resided at Puamana Place in the Farden Subdivision at Kahana. Later, in 1977, the McKelveys moved into their newly constructed home at Hale Malia Place near Napili.

Mac McKelvey was a former Amfac Vice President. During his tenure there, Mac was involved in spearheading the development of the Ka'anapali Resort. Later, Mac founded the Lahaina, Ka'anapali & Pacific Railroad and in 1974, opened the "World of Wines", the first business in the State to import California wines under controlled conditions. In 1971, Joan started the South Seas Trading Post in a space to the north of the existing Kimo's Restaurant on Front Street. Under Joan's guidance, South Seas Trading Post grew to seven (7) locations throughout the islands except Oahu. In September 2000, she divested herself of South Seas Trading Post and in January 2002, started a new business, Trouvaille, in the historic Pioneer Inn building. A

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summary of Joan's recollections from her early years in Lahaina follows.

In 1968, while visiting the Waiohoku Church Cemetery, Joan came upon the former grave site of Queen Keopuolani, the last of the female ali'i whose power was sacred. At the time, the cemetery was neglected and very poorly maintained; however, the discovery of this grave site launched efforts that led to the eventual restoration of the cemetery. Joan mentioned that the old Queen Theater, the site of the present Hawaii Experience Domed Theater, used to show movies every Friday night for Pioneer Mill Company employees and that the old Pioneer Mill hospital used to be located on a portion of the existing Lahaina Center site. Joan also recalled that a bakery and a flower shop occupied an area in the existing Lahaina Market Place and that Don Ho and Kui Lee appeared in a film shoot for a store in the Nagasaki Building. It was also mentioned that a brothel used to be located in the existing two-story commercial building adjoining the Diamond Parking Service parking lot on Front Street by Burger King. Joan recalled that the Pioneer Mill manager's homes were located between Puamana and Shaw Streets along the makai side of Front Street. She also mentioned that this area used to be more heavily vegetated then and that two (2) lots adjoining Honoapiilani Highway, the site of the existing Maui Islander and a parcel known as the Sullivan property, were like a swamp and acted as natural drainage storage areas. In the early 1970's, Joan remembered that stormwaters caused flooding problems in the area around Wainee and Prison

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Streets. She recalled clearing mud that was two feet deep from the Jack Ackerman home and that a drainage channel was constructed by Kamehameha III Elementary School as a result.

Insofar as cultural resources are concerned, Joan could not recall observing cultural practices occurring within the project corridor.

**b. Edna Bekeart**

Edna Pualani Farden Bekeart, the daughter of Charles and Annie Farden, and the twelfth of thirteen children, was born in 1917 at the Pioneer Mill Company Hospital, the site of the existing Lahaina Center at 900 Front Street. Her mother, Annie Kahalepouli Shaw, was born in Honolulu and raised on a private estate at Keka'a in Ka'anapali. While attending Mauna'olu Seminary at Makawao, she met Charles Kekua Farden, who had recently returned from Punahou College (re-named Punahou School). After her graduation in 1897, Annie and Charles were married at Mauna'olu Seminary and again at the historic Makawao Union Church. The Fardens moved to West Maui a year later where Charles was hired by Pioneer Mill as a Section Field Overseer.

At the time, political and social conditions were unstable; the people of Hawaii were living through trying times as the monarchy sought to retain control of their homeland. In the agricultural sector, plantations were thriving; wages were low but workers were provided with free housing and medical care. Plantation stores offered clothing, baked goods, fresh



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meat, and dairy products, as well as tools and household goods and supplies. Fishing, hunting, bartering, and home gardening also supplemented their needs.

As their family increased, the Fardens lived in three (3) different locales, moving to larger plantation homes each time. With the coming of their eleventh child, the Fardens acquired a 0.5 acre oceanfront parcel across from the existing Malu-ulu-o-Lele Park, the site of the ancient Hawaiian capital of Moku'ula. The construction of a two-story, six-bedroom home soon commenced. Prior to the end of World War I, the Farden residence in Lahaina was completed and the family moved in, although, most of the children were attending boarding schools in Honolulu. Almost immediately, Charles saw to it that each of his children took time to plant and care for a sprouting coconut along the seaside border of the property. Many of the coconut trees still stand today. A song entitled "Puamana", composed by Charles and daughter Irmgard, describes the beauty and comfort of their home and its grounds. In 1956, long after Annie and Charles had passed on, the property was sold to American Factors and in a ceremony at the Pioneer Mill manager's estate nearby, the Fardens transferred the name "Puamana" to the plantation manager's grounds and to the park next door. Coconut trees were planted in memory of Annie and Charles.

Edna described her childhood and growing up years in Lahaina as "a time of innocence", a period when kids were kids and adults were in charge. Folks were gentle, kindly,

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and well-mannered. Dignified behavior and respect for others typified the people of that era. Geared to the daily rhythm of planting, cultivating, harvesting, and milling sugar cane, they were united in their common effort to live together in peace and harmony, despite their different cultures. Children of all ethnic backgrounds went to public schools together but lived in separate neighborhoods (by choice) due primarily to the different social lives of labor and management employees. Intermarriages were not encouraged. Fathers worked to support their families, while mothers were homemakers and looked after their children. Toys were scarce. Teenagers occupied themselves with school dances, home parties, hiking in the hills and valleys, picnics at Ka'anapali, tennis, swimming, and barefoot football. Dating or going-steady was unheard of in those days. Smoking and drinking were activities that only adults engaged in. Families attended church regularly and participated in important community events such as the Maui County Fair, the most anticipated event of them all.

Edna recalled that homes used to line the mauka side of Front Street from the Banyan Tree to the park by the Baldwin House. There once was a stream where Shaw Street is located and a small bridge that crossed the stream at Front Street. The site of the existing Lahaina Shores Condominium was once a swamp area and a National Guard Armory formerly stood where the 505 Front Street shopping complex is presently situated. Stage shows and community dances with orchestra music were held at the Armory. The County fire station was located on the site of

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the existing County public parking lot at the corner of Prison and Front Streets. Around the late 1930's, in the area across the street from Pioneer Inn, there was a small hotel with a restaurant downstairs and a bordello upstairs. Japanese stores, from the corner of Prison Street to the site of the former Furtado residence (today's Burger King), used to sell candy and ice cream, as well as orange guri-guri in a cup (five cents). On the block where Pioneer Inn is located, stood the Inn, the Pioneer Theater, a horse and buggy hack stand, and a Chinese store on the corner of Front and Hotel Streets that sold cracked seed and other Chinese sweets. The Freeland family used to live across the street from Pioneer Inn. Houses lined Lahainaluna Road just a little past the sugar mill. There, little lanes led to camp houses with small gardens and yards with chickens, fruits and vegetables. A Japanese bakery at Front Street and Lahainaluna Road served free coffee and sold pies, cakes and donuts. During the evenings Edna would walk to the bakery for fresh donuts. Mill Street was a cane-haul road with plantation camps lying further mauka. A single row of homes lined both sides of Wainee Street, and fields of sugar cane lay mauka of the homes. On the mauka side of Front Street between Puamana and Shaw Street were middle class homes, while on the makai side were the homes of Pioneer Mill's senior management employees.

Open hospitality characterized the ambiance at the time. Pioneer Mill executive and senior management would entertain a lot since there was only one hotel in Lahaina (Pioneer Inn) so guests, who would arrive by steamship at

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Mala Wharf, would stay with their Pioneer Mill hosts. According to the practice at the time, Edna recalled that a Filipino gardener, a Portuguese laundress, a Japanese cook, and a Japanese housekeeper would attend to their family's needs. A Portuguese woman would come by regularly to bake sweet bread for the family in their Portuguese oven. The custom of making and giving a kihei pili (coverlet) to the mother of a new baby was still practiced during those times.

In the early to mid-1920's, Edna, who was around four to five years old at the time, entered an experimental kindergarten program with nine other children at the existing Baldwin House Museum site. Edna recalled being taken by horse-drawn carriage to the classroom building, which still stands today and is used as an art center. The kindergarten had a swing, see-saw and jungle gym. After kindergarten was over for the day, the children were taught ballet in the afternoon. Edna then entered Kamehameha III Elementary School. High school years followed, first at St. Andrew's Priory in Honolulu, then at Lahainaluna where she graduated and then went on to earn a degree in education at the University of Hawaii. In 1941 Edna and Lt. (jg) Robert Bekeart, U.S.N., were married in Lahaina at Holy Innocent's Episcopal Church. After World War II, the Bekearts returned to Hawaii, where they lived and worked on Oahu. After their children were married, the Bekearts moved to Maui to live in and care for the 70 year old home in Kahana where Edna's sister, Emma Farden Sharpe, resided. Edna did not recall observing any cultural practices occurring within the project corridor.

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2. **Potential Impacts and Mitigation Measures**

The construction of the proposed improvements is not expected to have an adverse effect on cultural beliefs, practices, resources, or gathering rights along the project corridor.

It should be noted, however, that a meeting held with the Friends of Moku'ula, in conjunction with the early consultation process for the preparation of the Draft Environmental Assessment (EA), surfaced a concern regarding the existing location of Pump Station No. 5 and its potential effect on the Moku'ula restoration project. See Chapter IX.

The Friends of Moku'ula are currently in the preliminary planning stage for the development of their project, which involves the restoration of the island of Moku'ula and its surrounding pond of Mokuhinia. While it was noted that the construction of the force main improvements will not impact the restoration project, the Friends of Moku'ula indicated that the location of existing Pump Station No. 5 will affect their site plan since the pump station is situated in an area of the pond that will surround the island. However, it should also be noted that the Pump Station No. 5 site is excluded by the license agreement between the County of Maui and the Friends of Moku'ula for the use of County lands (Malu Ulu o Lele Park and the adjacent public parking lot) for the restoration project.

During the meeting with the Friends of Moku'ula, a number of possible alternatives for the relocation of the pump station

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were discussed, as well as the estimated cost of relocating the pump station, the availability of County funds for such a relocation, and the need for preliminary engineering and planning feasibility studies for defining a relocation cost for funding purposes. During the interim, and until such time that funds become available for its relocation, it was indicated that planning for the force main and Moku'ula projects could proceed on the basis of leaving Pump Station No. 5 at its current location and visually blending it in with the restoration project.

Although the license agreement excludes the Pump Station No. 5 site, the Department of Public Works and Waste Management (DPWWM) recognizes the need for the County of Maui and the Friends of Moku'ula to work closely together to facilitate the development of their respective projects. As an interim measure, since the scope and funding for the force main project currently precludes the relocation of Pump Station No. 5, the DPWWM is willing to work with the Friends of Moku'ula to examine design schemes for aesthetically integrating the appearance of the pump station with their restoration project, as well as discuss long-term strategies regarding the relocation of Pump Station No. 5. During construction, archaeological monitoring will take place for all ground-altering activities. The proposed project will employ appropriate management and coordination practices to ensure that impacts to cultural resources are appropriately mitigated.

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**H. SCENIC AND OPEN SPACE RESOURCES**

**1. Existing Conditions**

The proposed alignment is not located within a scenic view corridor. Scenic resources in the vicinity of the property include the West Maui Mountains, which are to the east of the project corridor, as well as the Pacific Ocean and the offshore island of Lanai, which are to the west of the site. Open space resources in the region are also characterized by the West Maui Mountains, as well as the vast expanse of present and former agricultural lands that lie between the mountains and existing urbanized areas near the coastline.

**2. Potential Impacts and Mitigation Measures**

The proposed project is not anticipated to have an adverse effect on scenic view corridors or open space resources, as the new force main will be installed underground within existing roadway rights-of-way and easements.

**I. PUBLIC SERVICES**

**1. Existing Conditions**

**a. Police and Fire Protections**

The project corridor is within the Maui Police Department's service area, which services all of the Lahaina district. The Department's Lahaina Station is located in the Lahaina Civic Center complex at Wahikuli, approximately 1.0 mile east of the project corridor. The Lahaina Patrol includes 54 full-time personnel, including one (1) captain, one (1) lieutenant, seven (7) sergeants, and 39 police officers. The remaining six (6) personnel consist of public safety aides and administrative support staff.

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Fire prevention, suppression and protection services for the Lahaina District are provided by the Maui Fire Department's Lahaina Fire Station, also located in the Lahaina Civic Center and the Napili Fire Station, located in Napili. The Lahaina Fire Station includes an engine and a ladder company, and is staffed by 30 full-time personnel. The Napili Fire Station consists of an engine company including 15 full-time firefighting personnel.

**b. Medical Facilities**

The only major medical facility on the island is Maui Memorial Medical Center, located approximately 20.0 miles from Lahaina, midway between Wailuku and Kahului. The 196-bed facility provides general, acute, and emergency care services.

In addition, regular hours are offered by the Maui Medical Group, Lahaina Physicians, West Maui Healthcare Center, and Kaiser Permanente's Lahaina Clinic.

**c. Educational Facilities**

The West Maui area is served by four (4) public schools operated by the State Department of Education: Lahainaluna High School, Lahaina Intermediate School, King Kamehameha III Elementary School, and Princess Nahienaena Elementary School. The region is also served by privately operated pre-elementary and elementary schools.



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d. **Recreational Facilities**

West Maui is served by numerous recreational facilities offering diverse opportunities for the region's residents. There are nearly 20 County parks in West Maui. Approximately one-third of the County parks are situated along the shoreline and provide for excellent swimming, diving, and snorkeling, as well as fishing, surfing, picnicking, sun bathing, and other shoreline-related activities.

In addition, Kaanapali and Kapalua Resorts operate world-class golf courses which are available for public use.

Recreational facilities in the vicinity of the project site include Puamana Park, the Lahaina Aquatic Center, the Lahaina Recreation Center and Expansion Area, Malu'uluolele Park, and Kamehameha Iki Park.

e. **Solid Waste Disposal**

Single-family residential solid waste collection service is provided by the County of Maui on a once-a-week basis. Residential solid waste collected by County crews is disposed at the County's 55-acre Central Maui Landfill, located 4.0 miles southeast of the Kahului Airport. In addition to County-collected refuse, the Central Maui Landfill accepts commercial waste from private collection companies.

A refuse transfer station located about 6.0 miles south of the project corridor at Olowalu serves West Maui residents and accommodates household refuse and green waste, as well

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as used oil; no commercial waste is accepted at this facility. A private waste disposal service has been contracted by the County to transport waste from this facility to the Central Maui Landfill.

**2. Impacts and Mitigation Measures**

The proposed project is not anticipated to affect the service area limits or requirements for police, fire, medical, and emergency services, nor is it expected to impact educational, recreational, and solid waste facilities. In the long term, the proposed force main improvements should have no adverse effects on public services and facilities since it will be located within existing rights-of-way and easements.

**J. SOCIO-ECONOMIC ENVIRONMENT**

**1. Existing Conditions**

**a. Regional Setting**

The majority of lands in West Maui are either State designated "Conservation" or "Agricultural". Generally, "Conservation" lands occupy the higher elevations, while the "Agricultural" district spans the foothills of the West Maui Mountains.

"Urban" designated lands occupy the lower elevations along the coast and include the communities of Kahana-Napili-Kapalua and Kaanapali. These resort communities include several hotels and visitor-oriented condominiums. Lahaina, meanwhile, is more typical of a residential community. Single-family, business, light industrial, and agricultural zones prevail in this part of West Maui.

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The town of Lahaina is the commercial center for West Maui. The town contains a number of shopping centers and retail business areas, and serves as a core for the region's residential housing.

Part of West Maui's attraction can be attributed to its year-round dry and warm climate, complemented by many white-sand beaches and scenic landscape. Most of the visitor accommodations are located in Lahaina and the resort communities of Kaanapali, Honokowai, Kahana, Napili and Kapalua.

The Kapalua-West Maui Airport at Mahinahina conveniently links West Maui to Oahu and other neighbor islands.

Diversified agriculture and pineapple fields occupy much of the land in the area. Pioneer Mill cultivates their agricultural lands in the Kaanapali area with sweet corn, seed corn, and alfalfa. Maui Land & Pineapple Company's fields sprawl along the slopes of the West Maui Mountains north of Kaanapali.

**b. Population**

The resident population of the West Maui Community Plan region has demonstrated a substantial increase over the last three (3) decades. In 2000, the population of the island of Maui was 120,038, with 17,748 persons (15 percent) of the island's population residing in West Maui (U.S. Census Bureau, Census 2000). Since 1970, West Maui has seen a growth in population, with the population increasing from

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about 5,500 persons in 1970, to approximately 10,300 persons in 1980, and to about 14,600 persons in 1990. The resident population of the West Maui region is projected to increase to 21,776 in the year 2010 (Community Resources, Inc., 1994).

West Maui's annual average population growth over the last three (3) decades has kept pace with that of Maui County. Between 1970 and 1980, Maui County grew at an average rate of 4.4 percent a year, while from 1980 to 1990, and from 1990 to 2000 it grew at an average rate of 3.5 percent and 2.8 percent a year, respectively. Compared to Maui County, West Maui had a higher average annual growth rate of 6.4 percent during the 1970's, but shared a 3.5 percent average growth rate between 1980 and 1990, and a slightly lower growth rate of 2.3 percent in the 1990's. The resident population of Maui County is projected to increase to 127,670 in the year 2010 (Community Resources, Inc., 1994).

**c. Economy**

The economy of Maui is heavily dependent upon the visitor industry. The dependency on the visitor industry is especially evident in West Maui, which is one of the State's major resort destination areas. Major hotels in this region include the Hyatt Regency Maui (806 rooms), the Westin Maui (759 rooms), the Royal Lahaina Resort (592 rooms), the Ritz-Carlton Kapalua (548 rooms), the Sheraton Maui Resort (510 rooms), the Kaanapali Beach Hotel (430 rooms) and the Kapalua Bay Hotel (196 rooms).

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West Maui's visitor orientation is reflected in the character of Lahaina Town, which serves as a center for visitor-related retail outlets and activities.

Agriculture, another vital component of the West Maui economy, is handled by Pioneer Mill and Maui Land & Pineapple. Until the termination of sugar cane cultivation in September 1999, Pioneer Mill cultivated most of its approximately 6,700 acres of fee simple and leased lands with sugar cane. Pioneer Mill is diversifying its agricultural operations by utilizing portions of its lands for sweet corn, seed corn, and alfalfa cultivation.

Maui Land & Pineapple's fields remain an important component of the region's agricultural base. In 1988, Maui Land & Pineapple entered the fresh fruit market, air shipping pineapples to the mainland in an effort to diversify its operations.

As of February 2002, the unemployment rate for both Maui County and the island of Maui stood at 5.1 percent (State Department of Labor and Industrial Relations, April 2002).

**2. Potential Impacts and Mitigation Measures**

During the construction phase of project development, benefits will accrue to the local economy as a direct result of construction expenditures. These beneficial impacts include contributions made in the form of wages, salaries and sales taxes, as well as goods and services purchased from local vendors. In the long term, the proposed force main improvements will improve existing

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wastewater system operations for Lahaina's residents, visitors, and businesses.

**K. INFRASTRUCTURE**

**1. Existing Conditions**

**a. Roadways**

The public roadway system within the project corridor consists of State and County roadways.

Honoapiilani Highway (State Highway 30) is the main roadway serving the West Maui region. This highway is the only link between West Maui and the rest of the island (although an unimproved segment of highway extends around the north coast of the island to Waihee, providing limited access). Within the project corridor, the highway has an 80-foot wide right-of-way and a typical two-lane configuration except for a segment from Lahaina to Honokowai where four (4) travel lanes are provided.

Front Street is a two-lane County roadway aligned along a north-south axis. Within the Front Street segment of the project corridor, the right-of-way ranges from about 30 to 50 feet, with an average pavement width of 20 feet. The speed limit within this segment is 20 miles per hour (mph). It should be noted that in 1997, the County completed improvements to Front Street (between Baker to Shaw Streets) to facilitate traffic and pedestrian movement within this corridor, as well as to upgrade and relocate (as necessary) the water, sewer, drainage, and utilities infrastructure within this segment. Oriented in an east-west

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direction, Shaw Street is a two-lane County roadway with a 40-foot wide right-of-way makai of Honoapiilani Highway and a 60-foot wide right-of-way mauka of the highway. Mill Street is an access-restricted agricultural road which is privately owned and maintained by Pioneer Mill. An easement from Pioneer Mill will be acquired for the installation of the new force main along this segment of the project corridor. Dickenson Street is a two-lane County roadway with a 40-foot wide right-of-way that is lined up in an east-west direction.

**b. Water**

The West Maui region is served by the domestic water system operated by the County's Department of Water Supply. The County water system services the coastal areas from Launiupoko to Kaanapali and from Honokowai to Napili. Three (3) surface sources and eight (8) wells are used to supply the County domestic system. In addition to the County system, the West Maui region is served by private water systems, including the Kaanapali Water Corporation, which services the Kaanapali Resort, and the Kapalua Water Company, which provides water service to the Kapalua Resort.

The existing water system within the project corridor includes various waterlines. Within the Front Street segment of the project corridor lies an existing 4-inch waterline. The 4-inch waterline proceeds north and connects to an existing 12-inch waterline about 530 feet south of the intersection of Front and Shaw Street. An existing 8-inch waterline lies

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within the Shaw Street right-of-way. This waterline proceeds in an easterly direction and connects to an existing 12-inch waterline at the Shaw and Mill Street intersection. The 12-inch waterline then proceeds south along Mill Street. Extending from Prison Street, about 85 lineal feet of an existing 2-inch waterline lies within the Mill Street right-of-way.

**c. Wastewater**

The County's wastewater collection and transmission system and the Lahaina Wastewater Reclamation Facility (LWRF) accommodate the region's wastewater needs. The LWRF, located along Honoapiilani Highway just north of the Kaanapali Resort, has been upgraded and expanded to a design capacity of 9.0 million gallons per day (MGD). The cumulative wastewater flow currently allocated to the facility is approximately 6.138 MGD. A series of force mains and gravity lines convey wastewater from Lahaina Town to the LWRF.

With the exception of the existing 12-inch force main along Front Street, the existing wastewater system within the project corridor includes various sewerlines. An existing 8-inch gravity sewerline lies within the Front Street right-of-way. The 8-inch sewerline proceeds north and connects to an existing 10-inch gravity sewerline at Pump Station No. 5. Within the Shaw Street segment of the project corridor is an existing 8-inch gravity sewerline. This sewerline proceeds in a easterly direction and terminates at a sewer manhole at the Lahaina Aquatic Center. Along the project's Dickenson



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Street segment are existing 8- and 15-inch gravity sewerlines. The existing 15-inch sewerline, which conveys a portion of the mauka wastewater flow, connects to an existing 21-inch gravity sewerline at a sewer manhole at the intersection of Honoapiilani Highway and Dickenson Street.

d. Drainage

The existing drainage system along the project corridor includes a 4-ft. x 15-ft. reinforced concrete box culvert (RCBC) that connects to two (2) 23-inch x 14-inch oval reinforced concrete pipes (ORCP) at a drainage manhole at the northern extent of the Front and Shaw Street intersection. This drainage manhole also accepts the flow from a catch basin just east of the intersection via a single 23-inch x 14-inch ORCP. From this point, the 23-inch x 14-inch ORCP drainline proceeds to another drainage manhole just south of the intersection of Front and Shaw Streets where it connects to two (2) drainage inlets on opposite sides of Front Street. The flow from this drainline is then conveyed to an outlet between the Lahaina Shores and 505 Front Street where it is discharged into the ocean.

Site work for the project will involve excavation and backfilling for the installation of the new force main. Erosion control measures and Best Management Practices (BMPs) will be implemented during the construction period to minimize soil loss and erosion. A detailed grading and erosion control plan will be prepared in accordance with County standards. The subsurface water table probably occurs at the ocean level and fluctuates with the tide along

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Front Street; however, the water level may be higher to the east due to brackish water seepage. The subsurface water table may also vary with the rainfall in the area. Accordingly, a National Pollutant Discharge Elimination System (NPDES) Permit (for dewatering) will be obtained as necessary from the State Department of Health.

e. **Communications and Power**

Electrical and telephone service to the West Maui region is provided by Maui Electric Company (MECO) and Verizon Hawaii, respectively. Cable television (CATV) service is provided by Hawaiian Cablevision. Within the project corridor, existing overhead phone and power lines are located on utility poles along the east side of Front Street, the south side of Shaw Street, and the west side of Mill Street. Within the project's Dickenson Street segment, the phone and power lines are placed underground within the roadway right-of-way.

2. **Impacts and Mitigation Measures**

A traffic management plan will be prepared and appropriate traffic control measures will be implemented to minimize disruptions to traffic and to ensure the safe passage of vehicles and pedestrians during installation of the proposed force main.

MECO, the Department of Water Supply, and the State Department of Transportation will be consulted prior to the implementation of the project to coordinate scheduling and construction activities. In addition, media announcements and pre-construction meetings will be utilized to notify the public of construction schedules and

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activities.

In the long term, the proposed project will enhance the existing Lahaina wastewater system by improving system operations without adversely impacting other infrastructure components located within the roadway rights-of-way and easements.

With regard to drainage, the installation of the new force main is anticipated to produce no adverse effects to adjoining and downstream properties. The proposed improvements will be designed and constructed in accordance with applicable regulatory requirements.

**L. CUMULATIVE AND SECONDARY IMPACTS**

The proposed project is not expected to affect population parameters or result in an increased demand for public services and facilities, nor is it anticipated to create new demands for housing or infrastructure. During the short term, the project will benefit the local economy, either directly and/or indirectly, through the payment of wages, salaries, benefits, and taxes for employees involved in construction and construction-related jobs, as well as support businesses and services. In the long term, the proposed improvements will benefit the health and welfare of the public by enhancing wastewater system operations, efficiency, and reliability.

# ***Chapter III***

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***Relationship to Land Use  
Plans, Policies and Controls***

### **III. RELATIONSHIP TO LAND USE PLANS, POLICIES AND CONTROLS**

#### **A. STATE LAND USE DISTRICTS**

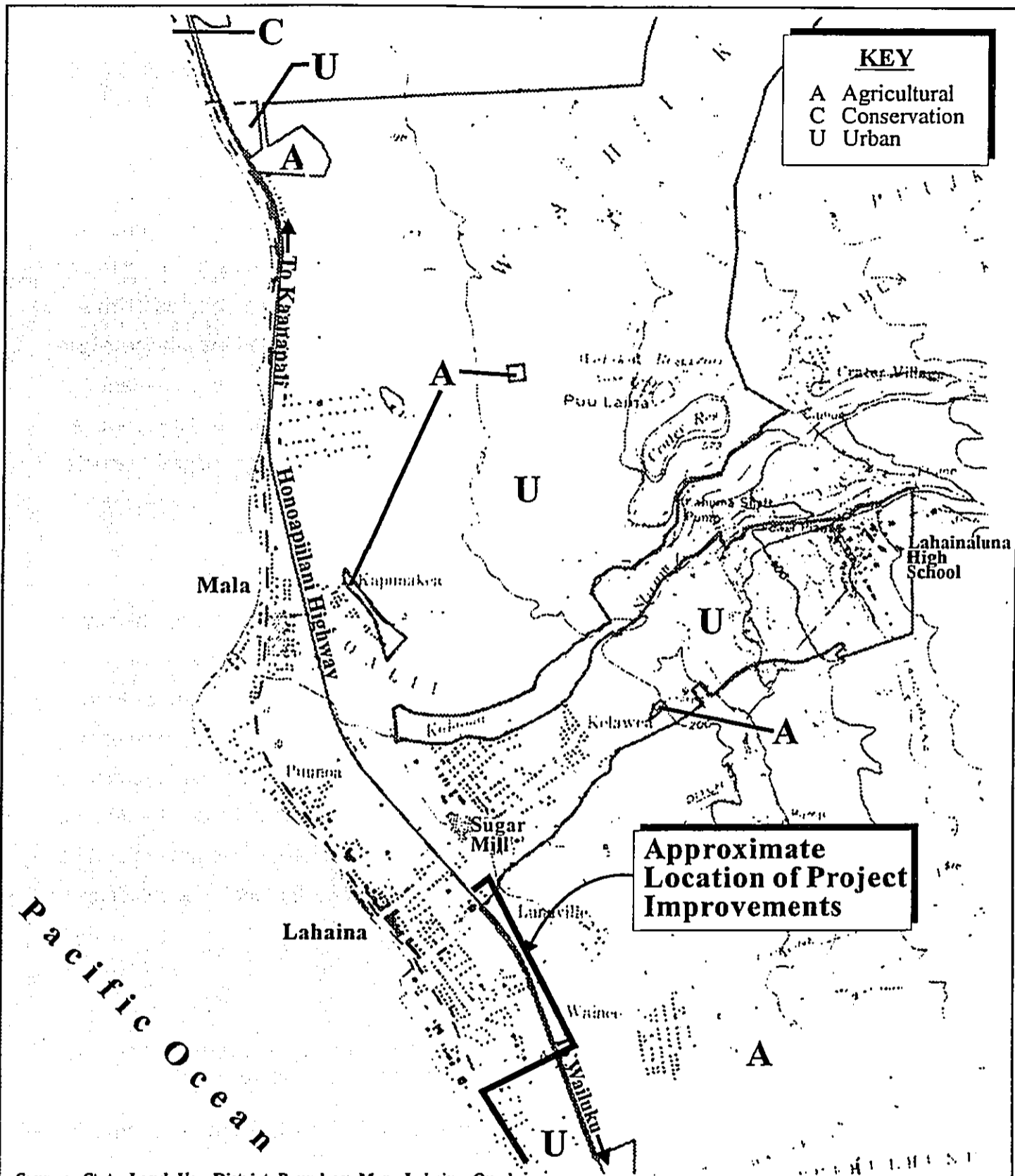
Chapter 205, Hawaii Revised Statutes (HRS), relating to the Land Use Commission, establishes the four (4) major land use districts in which all lands in the State are placed. These districts are designated "Urban", "Rural", "Agriculture" and "Conservation". The proposed installation of the force main within existing roadway rights-of-way and easements is permitted within the Urban, Agricultural and Rural Districts. The proposed action will involve lands within the State Urban and Agricultural Districts. See Figure 6.

#### **B. MAUI COUNTY GENERAL PLAN**

The Maui County General Plan (1990 Update) sets forth broad objectives and policies to help guide the long-range development of the County. As stated in the Maui County Charter, "The purpose of the General Plan is to recognize and state the major problems and opportunities concerning the needs and the development of the County and the social, economic and environmental effects of such development and set forth the desired sequence, patterns and characteristics of future development. The proposed action is in keeping with the following General Plan objectives and policy.

##### **Objectives**

- To provide efficient, safe and environmentally sound systems for the disposal and reuse of liquid and solid wastes.
- To anticipate and provide public utilities which will meet community needs in a timely manner.



Source: State Land Use District Boundary Map, Lahaina Quad

**Figure 6 Lahaina Wastewater Pump Station  
Nos. 5 and 6 - Force  
Main Improvements**

State Land Use District Classifications



Prepared for: County of Maui, Dept. of Public  
Works and Waste Management

MUNEKIYO & HIRAGA, INC.

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**Policy**

- Maintain all power and utility systems so as to meet public health and safety standards.

**C. WEST MAUI COMMUNITY PLAN**

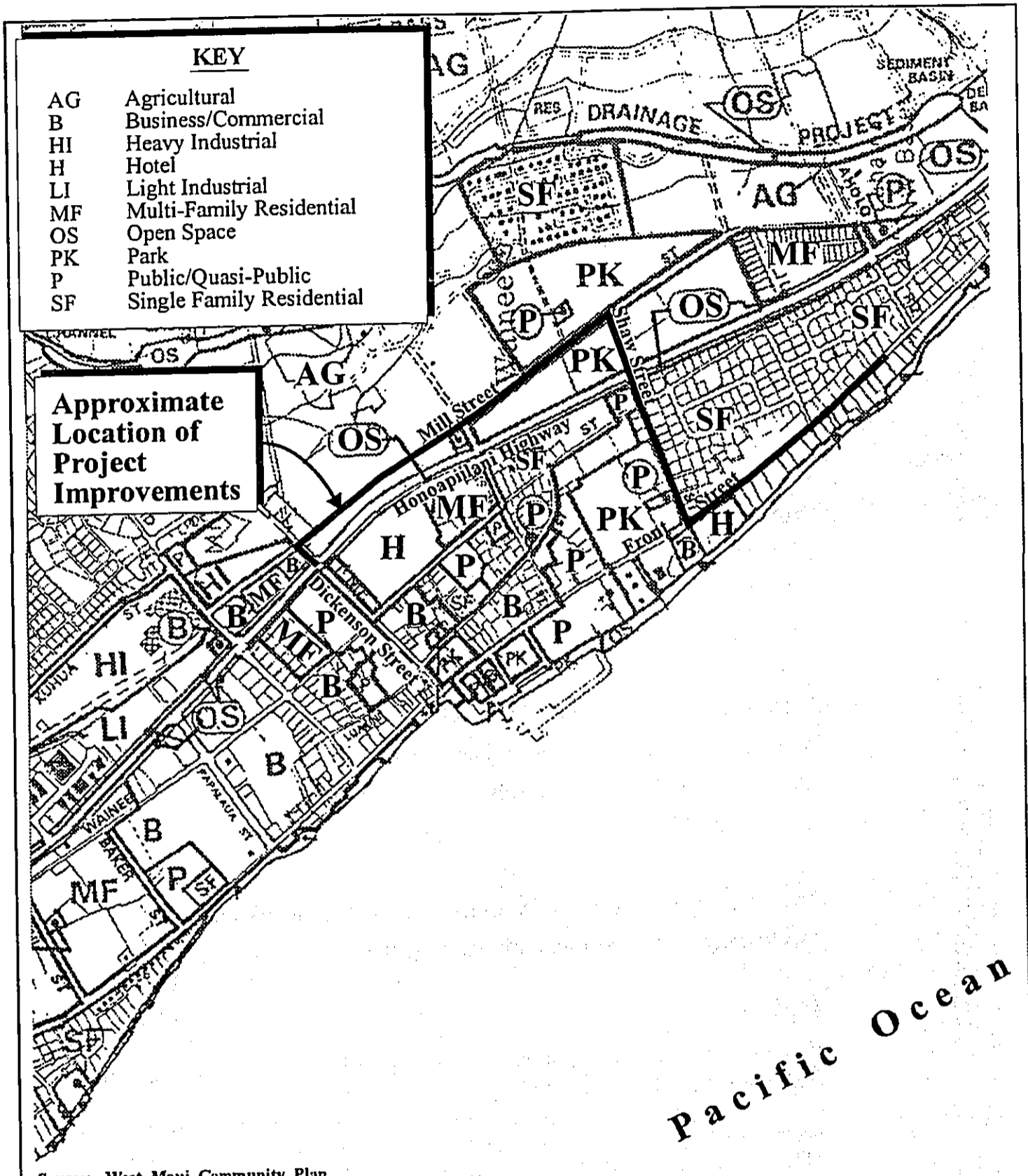
Within the County of Maui, there are nine (9) community plan regions. From a General Plan implementation standpoint, each region is governed by a community plan which sets forth desired land use patterns, as well as goals, objectives, policies and implementing actions for a number of functional areas including infrastructure-related parameters. The nine (9) regions are: Molokai, Lanai, West Maui, Wailuku, Kahului, Kihei-Makena, Makawao-Pukalani-Kula, Paia-Haiku, Hana and Kahoolawe. The project corridor traverses a portion of the West Maui Community Plan region. See Figure 7.

From a community plan land use standpoint, the proposed installation of a force main within roadway rights-of-way and easements is permitted. More importantly, support for the project can be found in the West Maui Community Plan.

The proposed action is consistent with the following West Maui Community Plan goal regarding infrastructure.

**Goal:**

Timely and environmentally sound planning, development, and maintenance of infrastructure systems which serve to protect and preserve the safety and health of the region's residents, commuters, and visitors through the provision of clean water, effective waste disposal, and efficient transportation systems which meet the needs of the community.



Source: West Maui Community Plan

**Figure 7 Lahaina Wastewater Pump Station  
Nos. 5 and 6 - Force  
Main Improvements** NOT TO SCALE

Community Plan Land Use Designations



Prepared for: County of Maui, Dept. of Public  
Works and Waste Management

MUNEKIYO & HIRAGA, INC.



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**D. COUNTY ZONING**

Permitted uses and performance standards are set forth by Title 19 of the Maui County Code relating to zoning. Utility systems such as the proposed force main improvements are considered an incidental use which is permitted in each of the County zoning districts. Inasmuch as the proposed force main route falls within State and County rights-of-way and easements, there are no specific zoning standards or requirements which would require discretionary review from the Maui Planning Commission or the Maui County Council.

**E. COASTAL ZONE MANAGEMENT OBJECTIVES AND POLICIES**

The Hawaii Coastal Zone Management Program (HCZMP), as formalized in Chapter 205A, HRS, establishes objectives and policies for the preservation, protection, and restoration of natural resources within Hawaii's coastal zone.

The proposed force main route falls within the limits of the County of Maui's Special Management Area (SMA). The SMA limits in the vicinity of the project corridor generally extends from the coastline to the mauka side of the Honoapiilani Highway right-of-way.

As set forth by Chapter 205A, HRS, this section addresses the project's relationship to applicable coastal zone management considerations.

**(1) Recreational Resources**

**Objective:**

Provide coastal recreational opportunities accessible to the public.

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**Policies:**

- (A) Improve coordination and funding of coastal recreational planning and management; and
- (B) Provide adequate, accessible, and diverse recreational opportunities in the coastal zone management area by:
  - (i) Protecting coastal resources uniquely suited for recreational activities that cannot be provided in other areas;
  - (ii) Requiring replacement of coastal resources having significant recreational value including, but not limited to, surfing sites, fishponds, and sand beaches, when such resources will be unavoidably damaged by development; or requiring reasonable monetary compensation to the state for recreation when replacement is not feasible or desirable;
  - (iii) Providing and managing adequate public access, consistent with conservation of natural resources, to and along shorelines with recreational value;
  - (iv) Providing an adequate supply of shoreline parks and other recreational facilities suitable for public recreation;
  - (v) Ensuring public recreational uses of county, state, and federally owned or controlled shoreline lands and waters having recreational value consistent with public safety standards and conservation of natural resources;
  - (vi) Adopting water quality standards and regulating point and non-point sources of pollution to protect, and where feasible, restore the recreational value of coastal waters;
  - (vii) Developing new shoreline recreational opportunities, where appropriate, such as artificial lagoons, artificial beaches, and artificial reefs for surfing and fishing; and
  - (viii) Encouraging reasonable dedication of shoreline areas with recreational value for public use as part of discretionary approvals or permits by the land use commission, board of land and natural resources, and county authorities; and crediting such dedication against the requirements of Section 46-6, HRS.

**Response:** The proposed improvements will be placed within existing rights-of-way and easements. The installation and long-

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term operation of the system is not anticipated to affect existing coastal or inland recreational resources.

(2) **Historic Resources**

**Objective:**

Protect, preserve and, where desirable, restore those natural and manmade historic and prehistoric resources in the coastal zone management area that are significant in Hawaiian and American history and culture.

**Policies:**

- (A) Identify and analyze significant archeological resources;
- (B) Maximize information retention through preservation of remains and artifacts or salvage operations; and
- (C) Support state goals for protection, restoration, interpretation, and display of historic resources.

**Response:** Consultation between the DPWWM and the State Historic Preservation Division (SHPD) has indicated that an archaeological inventory survey in the form of archaeological monitoring during construction is acceptable for the route segments along Front and Shaw Streets, and that archaeological monitoring along Mill and Dickenson Streets is appropriate. However, should significant cultural deposits be located during work along Shaw Street, an archaeological inventory survey in the form of archaeological monitoring will be conducted along Mill and Dickenson Streets as recommended by the SHPD. Should any archaeological features, cultural artifacts, or human remains be inadvertently discovered during installation, the SHPD will be promptly notified and appropriate mitigative measures will be implemented as necessary.

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(3) **Scenic and Open Space Resources**

**Objectives:**

Protect, preserve and, where desirable, restore or improve the quality of coastal scenic and open space resources.

**Policies:**

- (A) Identify valued scenic resources in the coastal zone management area;
- (B) Ensure that new developments are compatible with their visual environment by designing and locating such developments to minimize the alteration of natural landforms and existing public views to and along the shoreline;
- (C) Preserve, maintain, and, where desirable, improve and restore shoreline open space and scenic resources; and
- (D) Encourage those developments that are not coastal dependent to locate in inland areas.

**Response:** The proposed action involves the subsurface installation of a force main within existing roadway rights-of-way and easements. In the context of adjacent surrounding uses, the proposed action is not anticipated to impact coastal scenic and open space resources nor will it adversely affect public views to and along the shoreline.

(4) **Coastal Ecosystems**

**Objective:**

Protect valuable coastal ecosystems, including reefs, from disruption and minimize adverse impacts on all coastal ecosystems.

**Policies:**

- (A) Exercise an overall conservation ethic, and practice stewardship in the protection, use, and development of marine and coastal resources;
- (B) Improve the technical basis for natural resource

- 
- (C) management;
  - (C) Preserve valuable coastal ecosystems, including reefs, of significant biological or economic importance;
  - (D) Minimize disruption or degradation of coastal water ecosystems by effective regulation of stream diversions, channelization, and similar land and water uses, recognizing competing water needs; and
  - (E) Promote water quantity and quality planning and management practices that reflect the tolerance of fresh water and marine ecosystems and maintain and enhance water quality through the development and implementation of point and nonpoint source water pollution control measures.

***Response:*** The subject action is not expected to adversely impact coastal ecosystems. Trenching and backfilling for the force main installation will utilize appropriate Best Management Practices and mitigative measures to ensure that coastal ecosystems are not degraded during installation.

(5) **Economic Uses**

**Objectives:**

Provide public or private facilities and improvements important to the State's economy in suitable locations.

**Policies:**

- (A) Concentrate coastal dependent development in appropriate areas;
- (B) Ensure that coastal dependent development such as harbors and ports, and coastal related development such as visitor facilities and energy generating facilities, are located, designed, and constructed to minimize adverse social, visual, and environmental impacts in the coastal zone management area; and
- (C) Direct the location and expansion of coastal dependent developments to areas presently designated and used for such developments and permit reasonable long-term growth at such areas, and permit coastal dependent development outside of presently designated areas

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when:

- (i) Use of presently designated locations is not feasible;
- (ii) Adverse environmental effects are minimized; and
- (iii) The development is important to the State's economy.

**Response:** The project will have a beneficial short-term impact on the economy during construction by providing construction-related employment. In the long term, the completed project will enhance the existing Lahaina wastewater system by improving system operations. The proposed action is not in conflict with objectives and policies for economic uses.

(6) **Coastal Hazards**

**Objectives:**

Reduce hazard to life and property from tsunami, storm waves, stream flooding, erosion, subsidence and pollution.

**Policies:**

- (A) Develop and communicate adequate information about storm wave, tsunami, flood, erosion, subsidence, and point and nonpoint source pollution hazards;
- (B) Control development in areas subject to storm wave, tsunami, flood, erosion, hurricane, wind, subsidence, and point and nonpoint pollution hazards;
- (C) Ensure that developments comply with requirements of the Federal Flood Insurance Program; and
- (D) Prevent coastal flooding from inland projects.

**Response:** The majority of the project corridor falls within Zone C, while portions of the corridor along Front Street and Shaw Street fall within the limits of Zone B and Zone A-12. Coordination with the Department of Planning will be undertaken to address applicable flood hazard development standards. Appropriate erosion control measures will be incorporated during the

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construction period to minimize soil loss and erosion. As necessary, temporary drainage improvements will be utilized to facilitate the force main installation. These improvements will be designed to County standards to ensure that there are no adverse drainage impacts to adjoining and downstream properties. As an essential utility, the completed project will not affect life and property as it relates to natural hazards such as tsunamis and flooding.

(7) **Managing Development**

**Objectives:**

Improve the development review process, communication, and public participation in the management of coastal resources and hazards.

**Policies:**

- (A) Use, implement, and enforce existing law effectively to the maximum extent possible in managing present and future coastal zone development;
- (B) Facilitate timely processing of applications for development permits and resolve overlapping of conflicting permit requirements; and
- (C) Communicate the potential short and long-term impacts of proposed significant coastal developments early in their life cycle and in terms understandable to the public to facilitate public participation in the planning and review process.

**Response:** In compliance with requirements of Chapter 343, Hawaii Revised Statutes, this Environmental Assessment has been prepared to facilitate public understanding and input for the project.

Applicable State and County requirements will be adhered to in the design and construction of the fiber optic cable improvements.

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(8) **Public Participation**

**Objectives:**

Stimulate public awareness, education, and participation in coastal management.

**Policies:**

- (A) Promote public involvement in coastal zone management processes;
- (B) Disseminate information on coastal management issues by means of educational materials, published reports, staff contact, and public workshops for persons and organizations concerned with coastal issues, developments, and government activities; and
- (C) Organize workshops, policy dialogues, and site-specific mediations to respond to coastal issues and conflicts.

**Response:** As previously noted, public awareness of the project is being promoted through the Environmental Assessment process. The proposed project is not contrary to the objective of public awareness, education, and participation.

(9) **Beach Protection**

**Objectives:**

Protect beaches for public use and recreation.

**Policies:**

- (A) Locate new structures inland from the shoreline setback to conserve open space, minimize interference with natural shoreline processes, and minimize loss of improvements due to erosion;
- (B) Prohibit construction of private erosion-protection structures seaward of the shoreline, except when they result in improved aesthetic and engineering solutions to erosion at the sites and do not interfere with existing recreational and waterline activities; and
- (C) Minimize the construction of public erosion-protection structures seaward of the shoreline.



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**Response:** The subject action will be implemented within existing roadway rights-of-way and easements. Consequently, the project is not anticipated to adversely impact beach resources.

(10) **Marine Resources**

**Objectives:**

Promote the protection, use, and development of marine and coastal resources to assure their sustainability.

**Policies:**

- (A) Ensure that the use and development of marine and coastal resources are ecologically and environmentally sound and economically beneficial;
- (B) Coordinate the management of marine and coastal resources and activities to improve effectiveness and efficiency;
- (C) Assert and articulate the interests of the State as a partner with federal agencies in the sound management of ocean resources within the United States exclusive economic zone;
- (D) Promote research, study, and understanding of ocean processes, marine life, and other ocean resources in order to acquire and inventory information necessary to understand how ocean development activities relate to and impact upon ocean and coastal resources; and
- (E) Encourage research and development of new, innovative technologies for exploring, using, or protecting marine and coastal resources.

**Response:** The proposed project is not anticipated to adversely affect marine and coastal resources.

# ***Chapter IV***

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***Summary of Adverse  
Environmental Effects  
Which Cannot Be Avoided***

**IV. SUMMARY OF ADVERSE ENVIRONMENTAL EFFECTS WHICH CANNOT BE AVOIDED**

During the short term, the proposed project will result in unavoidable construction-related impacts which include noise-generated impacts occurring from the installation of the proposed force main. In addition, there may be temporary air quality impacts associated with dust generated from site work and exhaust emissions discharged by construction equipment.

The proposed project is not anticipated to create any significant, long-term adverse environmental effects.

# ***Chapter V***

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***Alternatives to  
the Proposed Action***

## **V. ALTERNATIVES TO THE PROPOSED ACTION**

### **A. ALTERNATIVE A**

Alternative A is the no action or no build alternative. This alternative would forego the implementation of the proposed project and maintain the status quo. The no action alternative is not considered a viable scenario in light of the age and deteriorated condition of the existing force main.

### **B. ALTERNATIVE B**

Alternative B is the deferred action alternative. This alternative would have similar consequences as the no action or no build alternative in that the implementation of the proposed project would be delayed and would not be immediately realized. This alternative could potentially result in higher installation costs due to increases in labor and material costs. Based on the preceding, the deferred action alternative was omitted from consideration.

### **C. ENGINEERING ALTERNATIVES**

Various alternative force main alignments involving Honoapiilani Highway, Wahie Lane, and Front, Shaw, Mill, Prison, Wainee, Luakini, and Dickenson Streets, as well as alternative installation techniques, including pipe bursting, cut and cover, in-situ lining, and horizontal directional drilling, were examined to ensure that all feasible options were not overlooked. The identification of an appropriate alignment and installation methodology involved an analysis of cost estimates, construction efficiency, operational objectives, and maintenance accessibility, consultation with government agencies and community organizations, as well as linear and spatial relationships and adjacencies. Although there may be other alignments and methodologies which could be examined, the proposed alternative best addresses the project's development and operational criteria.

# **Chapter VI**

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## ***Irreversible and Irretrievable Commitments of Resources***

**VI. IRREVERSIBLE AND IRRETRIEVABLE COMMITMENTS OF RESOURCES**

The proposed action will not result in the irreversible and irretrievable commitment of natural and man-made resources as existing rights-of-way and easements are proposed to be used for the force main installation. Lands underlying the existing rights-of-way and easements were previously committed for roadway and utility purposes. Since the proposed action involves the use of these same lands for additional utility purposes, no adverse impacts are anticipated.

# ***Chapter VII***

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## ***Findings and Conclusions***



## **VII. FINDINGS AND CONCLUSIONS**

The "Significance Criteria", Section 12 of the Administrative Rules, Title 11, Chapter 200, "Environmental Impact Statement Rules", were reviewed and analyzed to determine whether the proposed project will have significant impacts to the environment. The following analysis is provided.

1. **No Irrevocable Commitment to Loss or Destruction of any Natural or Cultural Resource Would Occur as a Result of the Proposed Project**

The proposed action is not anticipated to adversely impact known habitats of rare, endangered or threatened species of flora, fauna or avifauna that are located along the project's alignment.

It is noted that the proposed action utilizes existing roadway rights-of-way and easements without affecting the surface physical characteristics and operational parameters of the roadway itself. In this context, the proposed project will not affect cultural resources, practices and beliefs, including access and gathering rights.

2. **The Proposed Action Would Not Curtail the Range of Beneficial Uses of the Environment**

The proposed action is not expected to curtail the range of beneficial uses of the environment. The proposed force main installation will be a vital component of the wastewater system infrastructure. Within the project corridor, there will be no physical evidence of the installation once the project is completed. Under this project scope therefore, there are no adverse physical environmental impacts associated with the proposed action. Accordingly, the beneficial range of uses of the environment would not be curtailed.

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3. **The Proposed Action Does Not Conflict with the State's Long-term Environmental Policies or Goals or Guidelines as Expressed in Chapter 344, Hawaii Revised Statutes**

The State's Environmental Policy and Guidelines are set forth in Chapter 344, Hawaii Revised Statutes (HRS). The proposed action is in consonance with the policies and guidelines of Chapter 344, HRS.

4. **The Economic or Social Welfare of the Community or State Would Not be Substantially Affected**

The proposed action will have a direct beneficial effect on the local economy during the construction phase. In the long term, the proposed action will improve wastewater system operations in the Lahaina area for residents, visitors, and businesses.

5. **The Proposed Action Does Not Affect Public Health**

The new force main project will ensure the operational integrity of Lahaina's wastewater collection system. No adverse impacts to the public's health and welfare are anticipated as a result of the proposed project.

6. **No Substantial Secondary Impacts, Such as Population Changes or Effects on Public Facilities are Anticipated**

No population changes are anticipated as a result of the proposed action.

In addition, the proposed action is not anticipated to adversely impact existing water, drainage, wastewater, and transportation systems. The design and implementation of the project will be coordinated with the appropriate governmental agencies. The proposed action is not expected to significantly impact public services such as police, fire, and medical services, nor is it anticipated to adversely affect educational, recreational,

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and solid waste facilities and services.

7. **No Substantial Degradation of Environmental Quality is Anticipated**

During its construction phase, there will be short-term air quality and noise impacts as a result of the project. In the long term, there will be no effects upon air quality and ambient noise levels. The proposed project is not anticipated to affect scenic and open space resources along its alignment.

No substantial degradation of environmental quality resulting from the project is anticipated.

8. **The Proposed Action Does Not Involve a Commitment to Larger Actions, Nor Would Cumulative Impacts Result in Considerable Effects on the Environment**

The proposed action is viewed as a stand alone project. The proposed action represents the entire scope of work to be performed within existing rights-of-way and easements. Due to its geographic scope, as well as logistics and mobilization factors, the installation of the proposed force main will be conducted in phases that are sequenced to meet the scheduling objectives of the project's implementation time frame.

9. **No Rare, Threatened or Endangered Species or Their Habitats Would be Adversely Affected by the Proposed Action**

Rare, endangered or threatened species of flora, fauna, avifauna or their habitats are not expected to be impacted by the proposed project as all work will be conducted within existing roadway rights-of-way and easements.

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10. **Air Quality, Water Quality or Ambient Noise Levels Would Not be Detrimentially Affected by the Proposed Project**

Construction activities will result in short-term air quality and noise impacts. Dust control measures, such as regular watering and sprinkling, will be implemented, as necessary, to minimize wind-blown emissions. Noise impacts will occur primarily from installation-related activities. Construction activities will be limited to daylight working hours, with the exception of work within the Honoapiilani Highway right-of-way, which will likely occur at night. Water quality is not expected to be affected.

In the long term, the project is not anticipated to have a significant impact on air, noise, and water quality.

11. **The Proposed Project Would Not Affect Environmentally Sensitive Areas, Such as Flood Plains, Tsunami Zones, Erosion-prone Areas, Geologically Hazardous Lands, Estuaries, Fresh Waters or Coastal Waters**

With the exception of some areas along Front Street and Shaw Street, the remaining lands underlying the project alignment are situated beyond the limits of flooding and tsunami inundation. The installation of the proposed force main within these areas will be coordinated with the County of Maui, Department of Planning to ensure that applicable flood hazard area development standards are addressed. The soils underlying the project's alignment are not especially erosion-prone. There are no known geologically hazardous lands, estuaries, or coastal waters within or adjacent to the project's alignment.

12. **The Proposed Action Would Not Substantially Affect Scenic Vistas and Viewplanes Identified in County or State Plans or Studies**

The proposed action will not affect scenic corridors nor will it adversely

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impact scenic coastal and open space resources as the proposed force main will be installed within existing rights-of-way and easements.

13. **The Proposed Action Would Not Require Substantial Energy Consumption**

The proposed project will involve the short-term commitment of fuel for equipment, vehicles, and machinery during construction activities. However, this use is not anticipated to result in a substantial consumption of energy resources.

Based on the foregoing findings, it is concluded that the proposed action will not result in any significant impacts. Accordingly, this Draft Environmental Assessment is being processed in anticipation of a Finding of No Significant Impact (FONSI).

# ***Chapter VIII***

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***List of Permits  
and Approvals***

## **VIII. LIST OF PERMITS AND APPROVALS**

The following permits and approvals will be required prior to the implementation of the project.

### **State of Hawaii**

1. Community Noise Permit
2. Work-to-Perform in the State Highway Right-of-Way
3. Grant of Easement (State Department of Transportation)
4. NPDES Permit (to be determined in coordination with the State Department of Health)

### **County of Maui**

1. Work-to-Perform on County Highways
2. Grading/Grubbing Permit
3. SMA Assessment Application

# ***Chapter IX***

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***Agencies and Organizations  
Consulted During the Preparation  
of the Draft Environmental  
Assessment; Letters Received  
and Responses to  
Substantive Comments***



**IX. AGENCIES AND ORGANIZATIONS CONSULTED DURING THE PREPARATION OF THE DRAFT ENVIRONMENTAL ASSESSMENT; LETTERS RECEIVED AND RESPONSES TO SUBSTANTIVE COMMENTS**

The following agencies and organizations were consulted during the preparation of the Draft Environmental Assessment. Agency comments and responses to substantive comments are also included in this section.

1. Neal Fujiwara, District Conservationist  
**Natural Resources Conservation Service**  
U.S. Department of Agriculture  
210 Imi Kala Street, Suite 209  
Wailuku, Hawaii 96793-2100
2. William Lennan  
U.S. Department of the Army  
U.S. Army Engineer District, Hnl.  
Attn: Operations Division  
Bldg. T-1, Room 105  
Fort Shafter, Hawaii 96858-5440
3. Paul Henson  
Pacific Islands Manager  
U. S. Fish and Wildlife Service  
300 Ala Moana Blvd., #3-122, Box 50088  
Honolulu, Hawaii 96813
4. Gary Gill, Deputy Director  
State of Hawaii  
Department of Health  
P.O. Box 3378  
Honolulu, Hawaii 96801
5. Herbert Matsubayashi  
District Environmental Health Program Chief  
State of Hawaii  
Department of Health  
54 High Street  
Wailuku, Hawaii 96793
6. Gilbert Coloma-Agaran  
State of Hawaii  
Department of Land and Natural Resources  
P. O. Box 621  
Honolulu, Hawaii 96809
7. Don Hibbard  
State of Hawaii  
Department of Land and Natural Resources  
State Historic Preservation Division  
601 Kamokila Blvd., Room 555  
Kapolei, Hawaii 96707
8. Ferdinand Cajigal, Maui District Engineer  
State of Hawaii  
Department of Transportation  
Highways Division  
650 Palapala Drive  
Kahului, Hawaii 96732
9. Colin Kippen, Deputy Administrator  
Office of Hawaiian Affairs  
711 Kapiolani Boulevard, Suite 500  
Honolulu, Hawaii 96813
10. Clayton Ishikawa, Chief  
County of Maui  
Department of Fire Control  
200 Dairy Road  
Kahului, Hawaii 96732

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- |   |   |
|---|---|
| 11. Alice Lee, Director<br>County of Maui<br><b>Department of Housing and<br/>Human Concerns</b><br>200 South High Street<br>Wailuku, Hawaii 96793          | 18. Theo Morrison, Executive Director<br>LahainaTown Action Committee<br>648 Wharf Street, Suite 102<br>Lahaina, Hawaii 96761 |
| 12. John Min, Director<br>County of Maui<br><b>Department of Planning</b><br>250 South High Street<br>Wailuku, Hawaii 96793                                 | 19. Keoki Freeland, Executive Director<br>Lahaina Restoration Foundation<br>120 Dickenson Street<br>Lahaina, Hawaii 96761     |
| 13. Floyd Miyazono, Director<br>County of Maui<br><b>Department of Parks and Recreation</b><br>1580-C Kaahumanu Avenue<br>Wailuku, Hawaii 96793             | 20. Akoni Akana, Executive Director<br>Friends of Moku'ula<br>505 Front Street, Suite 234<br>Lahaina, Hawaii 96761            |
| 14. Tom Phillips, Chief<br>County of Maui<br><b>Police Department</b><br>55 Mahalani Street<br>Wailuku, Hawaii 96793  |   |
| 15. David Goode, Director<br>County of Maui<br><b>Department of Public Works<br/>and Waste Management</b><br>200 South High Street<br>Wailuku, Hawaii 96793 |   |
| 16. David Craddick, Director<br>County of Maui<br><b>Department of Water Supply</b><br>200 South High Street<br>Wailuku, Hawaii 96793                       |   |
| 17. Ezeikiela I. Kalua, Executive Assistant<br>West Maui Taxpayers Association<br>P.O. Box 10338<br>Lahaina, Hawaii 96761                                   |   |



DEPARTMENT OF  
**HOUSING AND HUMAN CONCERNS**  
COUNTY OF MAUI

JAMES "KIMO" APANA  
Mayor  
ALICE L. LEE  
Director  
PRISCILLA P. MIKELL  
Deputy Director

200 SOUTH HIGH STREET • WAILUKU, HAWAII 96793 • PHONE (808) 270-7805 • FAX (808) 270-7165

May 20, 2002

Mr. Glenn Tadaki, Planner  
Munekiyo & Hiraga, Inc.  
305 High Street, Suite 104  
Wailuku, Hawai'i 96793

Dear Mr. Tadaki:

Subject: Lahaina Wastewater Pump Station  
Nos. 5 and 6 - Force Main Improvements;  
TMK: 4-6-2, 3, 5, 6, 7, 10, 11, 12, 15,  
16 and 27

We have reviewed the project summary that was attached to  
your letter of May 15, 2002 and have no comment to offer.

Thank you for the opportunity to comment.

Very truly yours,

A handwritten signature in cursive script, appearing to read "Alice L. Lee".

ALICE L. LEE  
Director

ETO:df

c: Housing Administrator

BENJAMIN J. CAYETANO  
GOVERNOR



**STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION**

MAUI DISTRICT  
650 PALAPALA DRIVE  
KAHULUI, HAWAII 96732

May 23, 2002

MAY 28 2002

BRIAN K. MINAII  
DIRECTOR

DEPUTY DIRECTORS  
~~XXXXXXXXXXXX~~  
JADINE Y. URASAKI  
Jean L. Oshita

IN REPLY REFER TO:  
HWY-M2.167-02

**MEMORANDUM**

**TO:** Glenn Tadaki  
Munekiyo & Hiraga, Inc.

**FROM:** Paul M. Chung  
State Highways

**SUBJECT:** Lahaina Wastewater Pump Station No. 5 & 6  
ME 02-27

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Thank you for the opportunity to review and comment on the proposed force main improvements. Based upon our review of the project summary, we have no objection to the project; however, construction plans must be submitted for approval and a permit to perform work within the State right-of-way obtained prior to construction.

If there are any questions or concerns, please call me at 873-3535.

/pmc

PHONE (808) 594-1888

MAI 24 2002  
FAX (808) 594-1885



STATE OF HAWAII  
OFFICE OF HAWAIIAN AFFAIRS  
711 KAPI'OLANI BOULEVARD, SUITE 500  
HONOLULU, HAWAII 96813

HRD02-603

Mr. Glenn Tadaki  
Planner  
Munekiyo Hiraga, Inc.  
305 High Street, Suite 104  
Wailuku, HI 96793

SUBJECT: LAHAINA WASTEWATER PUMP STATIONS NOS. 5 AND 6  
FORCE MAIN IMPROVMENTS: TMK 4-6-2, 3, 5, 6, 7, 10, 11,  
12, 15, 16 AND 27

Dear Mr. Tadaki:

Thank you for the opportunity review the above referenced project which proposes force main improvements for Wastewater Station Nos. 5 and 6 in Lahaina, Maui.

The Office of Hawaiian Affairs (OHA) has no comments at this point in time. We look forward to receiving the Environmental Assessment for the project.

If you have any questions, please contact Jerry B. Norris at 594-1847 or email him at [jerryn@oha.org](mailto:jerryn@oha.org).

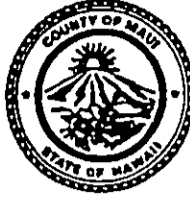
Sincerely,

A handwritten signature in cursive script, appearing to read "Jalna S. Keala".

Jalna S. Keala  
Acting Director, Hawaiian Rights Division

cc: OHA Board of Trustees  
Clyde W. Namu'o, OHA Administrator  
Thelma Shimaoka, Maui CRC

JAMES "KIMO" APANA  
Mayor



MAY 31 2002  
FLOYD S. MIYAZONO  
Director

GLENN T. CORREA  
Deputy Director

(808) 270-7230  
Fax (808) 270-7934

**DEPARTMENT OF PARKS & RECREATION**

1580-C Kaahumanu Avenue, Wailuku, Hawaii 96793

May 23, 2002

Mr. Glenn Tadaki  
Munekiyo & Hiraga, Inc.  
305 High Street, Suite 104  
Wailuku, Hawaii 96793

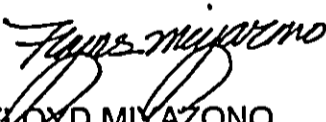
Dear Mr. Tadaki:

Subject: **Lahaina Wastewater Pump Station Nos. 5 and 6 -  
Force Main Improvements  
TMK 4-6-02, 03, 05, 06, 07, 10, 11, 12, 15, 16 and 27, Lahaina**

Our Department has reviewed the general overview for the subject project as requested, and have no comments at this time.

Thank you for the opportunity to review and comment. Please feel free to contact me or Mr. Patrick Matsui, Chief of Planning and Development, at 270-7387 if there are any questions.

Sincerely,

  
FLOYD MIYAZONO  
Director

c: Patrick Matsui, Chief of Parks Planning & Development

JUN 06 2002



**DEPARTMENT OF WATER SUPPLY**  
**COUNTY OF MAUI**  
P.O. BOX 1109  
WAILUKU, MAUI, HAWAII 96793-7109  
Telephone (808) 270-7816 • Fax (808) 270-7833

May 24, 2002

Mr. Glenn Tadaki, Planner  
Munekiyo & Hiraga Inc.  
305 High Street  
Wailuku HI 96793

Project Name: Lahaina Wastewater Pump Station Nos. 5 and 6 - Force Main  
Improvements  
TMK: (2)-4-6-2.3.5.6.7.10.11.12.15.16 and 27

Dear Mr. Tadaki:

Thank you for the opportunity to review this application. The Department of Water Supply provides the following comments:

Attached is a map showing our existing waterlines in the proximity of the proposed project. The applicant should coordinate construction plans with our Engineering Division during the development process. This will assist in minimizing potential service disruptions during the construction process.

In order to conserve water, we recommend that brackish and/or reclaimed water sources be utilized for all non-potable water uses, including dust control during construction, if such water sources are available.

The project overlies the Launiupoko aquifer which has a sustainable yield of 8 MGD. The Department of Water Supply strives to protect the integrity of surface and groundwater resources by encouraging the applicant to adopt best management practices (BMPs) designed to minimize infiltration and runoff from construction and vehicle operations. We have attached sample BMPs for principle operations for reference. Additional information can be obtained from the State Department of Health.

Should you have any questions, please contact our Water Resources and Planning Division at 270-7199.

Sincerely,

A handwritten signature in black ink, appearing to read "David Craddick".

David Craddick  
Director



June 13, 2002

David Craddick, Director  
Department of Water Supply  
County of Maui  
200 High Street  
Wailuku, Hawaii 96793

**SUBJECT: Lahaina Wastewater Pump Station Nos. 5 and 6 - Force Main Improvements; TMK 4-6-2, 3, 5, 6, 7, 11, 12, 15, 16 and 27**

Dear Mr. Craddick:

Thank you for providing us with your May 24, 2002 early consultation comments on the above-referenced project. On behalf of the applicant, the County of Maui, Department of Public Works and Waste Management (DPWWM), we would like to note the following.

A copy of the map depicting the existing waterlines within the project corridor has been furnished to the project's civil engineer. To minimize the potential for service disruptions during construction activities, the DPWWM will coordinate final design and construction plans with the Water Department's Engineering Division.

Depending on availability, brackish or reclaimed water will be utilized for non-potable uses during construction. In addition, Best Management Practices will be implemented during construction to minimize infiltration and runoff from construction-related activities.

Thank you again for providing us with your comments. Please feel free to call me should you have any questions.

Sincerely,

Glenn Tadaki, Planner

GT:tn

cc: Eric Nakagawa, Department of Public Works and Waste Management (w/enclosures)  
Eric Yamashige, Ronald M. Fukumoto Engineering, Inc. (w/enclosures)

rfe/hns586/dws/lr.001



JUN 03 2002



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

REPLY TO  
ATTENTION OF

May 31, 2002

Regulatory Branch

Mr. Glen Tadaki, Planner  
Munekiyo & Hiraga, Inc.  
305 High Street, Suite 104  
Wailuku, Hawaii 96793

Dear Mr. Tadaki:

This letter responds to your request for comments concerning the County of Maui proposed force main improvements in Lahaina, Maui, dated May 3, 2001. Based on the information you provided I have determined that there are no waters of the United States including wetlands at the project site and therefore a Department of the Army (DA) permit will not be required for this project.

If you have any questions concerning this determination, please contact William Lennan of my staff at 438-6986 or FAX 438-4060, and reference File No. 200200341.

Sincerely,

A handwritten signature in black ink, appearing to read "George P. Young".

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

BENJAMIN J. CAYETANO  
GOVERNOR



JUN 12 2002

BRUCE S. ANDERSON, Ph.D., M.P.H.  
DIRECTOR OF HEALTH

LORRIN W. PANG, M.D., M.P.H.  
MAUI DISTRICT HEALTH OFFICER

**STATE OF HAWAII**  
DEPARTMENT OF HEALTH  
**MAUI DISTRICT HEALTH OFFICE**  
54 HIGH STREET  
WAILUKU, MAUI, HAWAII 96793

June 6, 2002

Mr. Glenn Tadaki, Planner  
Munekiyo & Hiraga, Inc.  
305 High Street, Suite 104  
Wailuku, Hawai'i 96793

Dear Mr. Tadaki:

Subject: **Lahaina Wastewater Pump Station Nos. 5 and 6 – Force Main Improvements; TMK: 4-6-2, 3, 5, 6, 7, 10, 11, 12, 15, 16 and 27**

Thank you for the opportunity to comment on the proposed force main improvements for Wastewater Pump Station Nos. 5 and 6 in Lahaina, Maui. We have the following comment:

Any construction discharge into state waters will require a National Pollutant Discharge Elimination System (NPDES) permit coverage.

Should you have any questions, please call me at 984-8230.

Sincerely,

A handwritten signature in black ink, appearing to read "Herbert S. Matsubayashi".

*for* Herbert S. Matsubayashi  
District Environmental Health Program Chief

c: Roland Asakura



June 14, 2002

Herbert S. Matsubayashi, District  
Environmental Health Program Chief  
Maui District Health Office  
Department of Health  
State of Hawaii  
54 High Street  
Wailuku, Hawaii 96793

SUBJECT: Lahaina Wastewater Pump Station Nos. 5 and 6 - Force Main  
Improvements; TMK 4-6-2, 3, 5, 6, 7, 11, 12, 15, 16 and 27

Dear Mr. Matsubayashi:

Thank you for providing us with your June 6, 2002 early consultation comments on the above-referenced project. On behalf of the applicant, the County of Maui, Department of Public Works and Waste Management (DPWWM), we would like to note that National Pollutant Discharge Elimination System (NPDES) permit coverage will be obtained, as necessary, for any construction discharge into State waters.

Thank you again for providing us with your comments. Please feel free to call me should you have any questions.

Very truly yours,

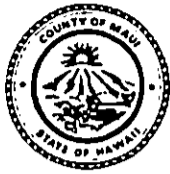
Glenn Tadaki, Planner

GT:tn

cc: Eric Nakagawa, Department of Public Works and Waste Management  
(w/enclosures)  
Eric Yamashige, Ronald Fukumoto Engineering (w/enclosures)

rfe\hr5&6\doh\lr

JUN 17 2002



JAMES "KIMO" APANA  
MAYOR

OUR REFERENCE  
tv  
YOUR REFERENCE

**POLICE DEPARTMENT**  
COUNTY OF MAUI

55 MAHALANI STREET  
WAILUKU, HAWAII 96793  
(808) 244-6400  
FAX (808) 244-6411

June 12, 2002



THOMAS M. PHILLIPS  
CHIEF OF POLICE

KEKUHAUPIO R. AKANA  
DEPUTY CHIEF OF POLICE

Mr. Glenn Tadaki  
Planner  
Munekiyo & Hiraga, Inc.  
305 High Street, Suite 104  
Wailuku, HI 96793

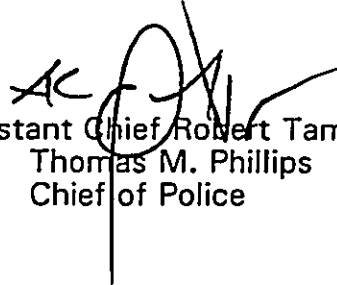
Dear Mr. Tadaki:

SUBJECT: Lahaina Wastewater Pump Station Nos. 5 and 6 - Force Main Improvements; TMK 4-6-2, 3, 5, 6, 7, 10, 11, 12, 15, 16 and 27

Thank you for your letter of May 15, 2002, requesting comments on the above subject.

The assessment was reviewed and we have no additional comments or recommendations at this time. Thank you for giving us the opportunity to comment on this project. We are returning the summary which was submitted for our review.

Very truly yours,

  
Assistant Chief Robert Tam Ho  
for: Thomas M. Phillips  
Chief of Police

Enclosure

c: John E. Min, Planning Department

BENJAMIN J. CAYETANO  
GOVERNOR OF HAWAII



JUN 14 2002

BRUCE S. ANDERSON, Ph.D., M.P.H.  
DIRECTOR OF HEALTH

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

In reply, please refer to:  
File  
02-135/epo

June 12, 2002

Mr. Glenn Tadaki  
Munekiyo & Hiraga Inc.  
305 High Street, Suite 104  
Wailuku, Hawaii 96793

Dear Mr. Tadaki:

Subject: Pre-Environmental Assessment (PEA) Consultation  
Lahaina Wastewater Pump Station No. 5 & 6  
Tax Map Key: 4-6-002: 3, 5-7, 10-12, 15, 16, and 27

Thank you for the opportunity to review and comment on the subject proposal. The PEA was routed to the various branches of the Environmental Health Administration. We have the following comments.

Clean Water Branch (CWB)

1. The applicant should contact the Army Corps of Engineers to identify whether a federal permit (including a Department of Army permit) is required for this project. A Section 401 Water Quality Certification is required for "Any 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...", pursuant to Section 401(a)(1) of the Federal Water Pollution Act (commonly known as the "Clean Water Act");
2. A National Pollutant Discharge Elimination System (NPDES) general permit coverage is required for the following discharges to waters of the State:
  - a. Discharge of storm water runoff 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. Discharge of storm water runoff associated with construction activities that involve the disturbance of five (5) acres or greater, including clearing, grading, and excavation;

- c. Discharge of treated effluent from leaking underground storage tank remedial activities;
- d. Discharge of once through cooling water less than one million gallons per day;
- e. Discharge of hydro-testing water;
- f. Discharge of construction dewatering effluent;
- g. Discharge of treated effluent from petroleum bulk stations and terminals; and
- h. Discharge of treated effluent from well drilling activities.

Any person requesting to be covered by a NPDES general permit for any of the above activities should file a Notice of Intent with the Department of Health, Clean Water Branch (CWB) at least thirty (30) days prior to commencement of any discharges to State waters;

- 3. If construction activities involve the disturbance of one acre or greater, including clearing, grading, and excavation, and will take place or extend after March 10, 2003, an NPDES general permit coverage is required for discharges of storm water runoff into State waters; and
- 4. 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.

If you have any questions, please contact the Clean Water Branch at (808) 586-4309.

Clean Air Branch

*Control of Fugitive Dust*

There is a significant potential for fugitive dust emissions during the construction activities. Implementation of adequate dust control measures during all phases of development and construction activities is warranted.

Construction activities must comply with provisions of Hawaii Administrative Rules, Chapter 11-60.1, "Air Pollution Control," Section 11-60.1-33, Fugitive Dust.

The contractor should provide adequate measures to control dust from the road areas and during the various phases of construction. These measures include, but are not limited to:

- a. Planning the different phases of construction, focusing on minimizing the amount of dust generating materials and activities, centralizing on-site vehicular traffic routes, and locating potentially dusty equipment in areas of the least impact;

Mr. Glenn Tadaki  
June 12, 2002  
Page 3

- b. Providing an adequate water source at the site prior to start up of construction activities;
- c. Landscaping and rapid covering of bare areas, including slopes, starting from the initial grading phase;
- d. Controlling of dust from shoulders and access roads;
- e. Providing adequate dust control measures during weekends, after hours, and prior to daily start-up of construction activities; and
- f. Controlling of dust from debris being hauled away from project site.


If you have any questions regarding these issues on fugitive dust, please contact the Clean Air Branch at (808) 586-4200.

Noise, Radiation and Indoor Air Quality (NRIAQ) Branch

All project activities shall comply with the Administrative Rules of the Department of Health, Chapter 11-46, on "Community Noise Control".

If you have any questions, please contact the NRIAQ at (808) 586-4701.

Sincerely,

  
GARY GILL  
Deputy Director  
Environmental Health Administration

c: CWB  
CAB  
NRIAQ  
Maui District Health Office



June 26, 2002

Gary Gill, Deputy Director  
for Environmental Health  
Department of Health  
State of Hawaii  
P.O. Box 3378  
Honolulu, Hawaii 96801

SUBJECT: Lahaina Wastewater Pump Station Nos. 5 and 6 - Force Main  
Improvements; TMK 4-6-2, 3, 5, 6, 7, 11, 12, 15, 16 and 27

Dear Mr. Gill:

Thank you for providing us with your June 12, 2002 early consultation comments on the above-referenced project. On behalf of the applicant, the County of Maui, Department of Public Works and Waste Management, we would like to note the following.

In response to our request for early consultation comments, the Army Corps of Engineers has indicated that a Department of the Army Permit will not be required for the project. In addition, construction activities will comply with applicable Department of Health requirements regarding NPDES general permit coverage, air pollution control, and community noise control.

Thank you again for providing us with your comments. Please feel free to call me should you have any questions.

Sincerely,

Glenn Tadaki, Planner

GT:tn

cc: Eric Nakagawa, Department of Public Works and Waste Management  
Eric Yamashige, Ronald M. Fukumoto Engineering, Inc.

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DOCUMENT CAPTURED AS RECEIVED

BENJAMIN J. CAYETANO  
GOVERNOR

RECEIVED  
2002 JUN 17 AM 9:28

WASTEWATER  
RECLAMATION DIVISION  
COUNTY OF MAUI

COUNTY OF MAUI  
PUBLIC WORKS



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

JUN 12 2002

BRIAN K. MINAAI  
DIRECTOR

DEPUTY DIRECTORS  
JEAN L. OSHITA  
JADINE Y. URASAKI

RUSH 12

DEPT. OF PUBLIC WORKS

DEPT. OF TRANSPORTATION  
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DIRECTOR  
DEP. DIR.  
PERK.  
STAFF CE  
LUCIA  
WATER RECL.  
SOLID W.  
ENGR.  
HIGHWAYS  
SECTY.

Return to \_\_\_\_\_ Date \_\_\_\_\_

Ref. No. \_\_\_\_\_

By \_\_\_\_\_ Date \_\_\_\_\_

Mr. David Goode  
Director  
Department of Public Works and Waste Management  
County of Maui  
200 South High Street  
Wailuku, Maui, Hawaii 96793

Dear Mr. Goode:

Subject: Environmental Assessment, Lahaina Wastewater Pump Station Nos. 5 and 6,  
Force Main Improvements, DPWWM Job No. 00-49, Lahaina, Maui, Hawaii

We have the following comments:

- Grant of easement documents are required for locations where the force mains cross Honoapiilani Highway. A recordation charge and other costs may be involved. We recommend that you contact the Highways Division Right of Way Branch at (808) 692-7327 for more information regarding these requirements.
- A permit is required for construction in the State Highway right of way. Construction plans must be submitted to the State Highways Maui District Office for review and approval.

If you have any questions, you contact Ronald Tsuzuki, Head Planning Engineer, Highways Division, at 587-1830.

Very truly yours,

*Brian K. Minaai*  
BRIAN K. MINAAI  
Director of Transportation

RUSH

WWRD	INFO	ACTION	DRAFT RESP	REVIEW	COMMENTS	FILE	COPY
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By \_\_\_\_\_ Date \_\_\_\_\_

Return to: \_\_\_\_\_



June 26, 2002

Brian K. Minaai, Director  
Department of Transportation  
State of Hawaii  
869 Punchbowl Street  
Honolulu, Hawaii 96813-5097

**SUBJECT:** Lahaina Wastewater Pump Station Nos. 5 and 6 - Force Main Improvements; TMK 4-6-2, 3, 5, 6, 7, 11, 12, 15, 16 and 27

Dear Mr. Minaai:

Thank you for providing us with your June 12, 2002 early consultation comments on the above-referenced project. On behalf of the applicant, the County of Maui, Department of Public Works and Waste Management, we would like to note the following.

Grant of easement documents will be obtained for the locations where the force main crosses Honoapiilani Highway. In addition, construction plans for the project will be submitted to the Maui District Office of the Highways Division for review and approval along with a permit application for Work-to-Perform in the State Highway Right-of-Way.

Thank you again for providing us with your comments. Please feel free to call me should you have any questions.

Sincerely,

A handwritten signature in black ink, appearing to read "Glenn Tadaki", is written over a faint, larger version of the same signature.

Glenn Tadaki, Planner

GT:tn

cc: Eric Nakagawa, Department of Public Works and Waste Management  
Eric Yamashige, Ronald M. Fukumoto Engineering, Inc.

rfc/thr556/dotltr.002

JUN 14 2002



FRIENDS OF  
MOKU'ULA, INC.

I Ka Wā Mamua, Ka Wā Mahope  
The Future Is In The Past

(808) 661-3659  
Fax (808) 661-1676  
505 Front Street, Suite 234  
Lāhainā, Maui, Hawai'i 96761  
E-mail: friends@mokuula.com  
www.mokuula.com

June 12, 2002

Mr. Glenn Tadaki, Planner  
Munekiyo & Hiraga, Inc.  
305 High Street, Suite 104  
Wailuku, HI 96793

Aloha Glenn:

Thank you for taking the time to meet with myself and our board members regarding the force main improvements for the Lahaina Wastewater Pump Stations 5 and 6.

As we previously stated, it was concluded that this project will definitely have negative cultural and environmental effects and is in conflict with the Master Plan for the restoration of Moku'ula. We continue to feel this way even after discussions with our Board members.

However, the time spent discussing the alternatives was beneficial for us and we feel we can come to a compromise with further discussion and mutual cooperation.

We have always believed that the pump station was to eventually be relocated and the proposed improvements were unexpected.

We would appreciate your giving us every consideration with regard to our restoration project based on its cultural, spiritual and environmental significance. Please advise what alternatives you may offer as a solution.

We look forward to continued discussions on this matter.

Sincerely,

Akoni Akana  
Executive Director

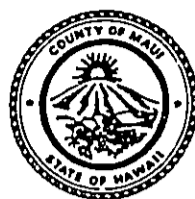
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Enclosures

cc: Lance Weisel, Project Manager

JUL 08 2002

JAMES "KIMO" APANA  
Mayor  
DAVID C. GOODE  
Director  
MILTON M. ARAKAWA, A.I.C.P.  
Deputy Director



RALPH NAGAMINE, L.S., P.E.  
Land Use and Codes Administration  
TRACY TAKAMINE, P.E.  
Wastewater Reclamation Division  
LLOYD P.C.W. LEE, P.E.  
Engineering Division  
JOHN HARDER  
Solid Waste Division  
BRIAN HASHIRO, P.E.  
Highways Division

COUNTY OF MAUI  
DEPARTMENT OF PUBLIC WORKS  
AND WASTE MANAGEMENT  
200 SOUTH HIGH STREET  
WAILUKU, MAUI, HAWAII 96793

June 27, 2002

Akoni Akana, Executive Director  
Friends of Moku`ula, Inc.  
505 Front Street, Suite 234  
Lahaina, Hawaii 96793

Dear Mr. Akana:

SUBJECT: LAHAINA WASTEWATER PUMP STATION NOS. 5 AND 6 - FORCE  
MAIN IMPROVEMENTS; TMK 4-6-2, 3, 5, 6, 7, 11, 12, 15, 16 AND 27

Thank you for providing our consultant with your June 12, 2002 letter commenting on the above-referenced project. In addition, we appreciate the time that you, board president Jerry Kunitomo, board member George Lee, project manager Lance Weisel, and administrative assistant Shirley Kaha`i took to meet with our project team on May 30, 2002 to discuss the proposed project. It is my understanding that the following key topics were discussed during this meeting.

1. The Moku`ula restoration project involves TMK 4-6-07: 01 (a vacant, 2-acre State-owned parcel), TMK 4-6-07:02 (Malu Ulu O Lele Park), and TMK 4-6-07:36 (an existing County-owned public parking lot). In addition, the Friends of Moku`ula hopes to acquire the existing Salvation Army parcel (TMK 4-6-07:37), as well as the Salvation Army Thrift Store parcel (TMK 4-6-07:38) through a land exchange with the Estate of Harry and Jeanette Weinberg.
2. The Friends of Moku`ula are in the initial development stage of their project. This phase involves the relocation of the existing public parking lot to the nearby State-owned parcel, the excavation of the Moku`ula site, the installation of landscaping, and the construction of a community hale toward the rear of the site by Waiola Church. Construction is anticipated to commence in early 2003.
3. The construction of the force main improvements project, in and of itself, will not impact the Moku`ula restoration project.
4. The license agreement between the County of Maui and the Friends of Moku`ula (for the use of TMK 4-6-07:por. 02 and TMK 4-6-07:34 for the restoration project),

excludes the Pump Station No. 5 (PS 5) site from the license agreement, as well as a 60-foot strip of land that extends along Front Street in a northerly direction.

5. The location of PS 5 will affect the Moku`ula site plan since the pump station is set in an area of the pond that will surround the island.
6. As PS 5 will affect the Moku`ula site plan, the following possible alternatives were discussed.
  - a. Remove PS 5 from service and upgrade another pump station to handle the flow. Within its service area, PS 5 is located at the convergence point for the existing gravity lines in the Front Street right-of-way. Upgrading another pump station to handle the flow from PS 5 will be costly and involve extensive modifications to existing gravity lines and pump station facilities.
  - b. Place existing above-grade PS 5 facilities underground or relocate these facilities offsite at a nearby location. While subsurface installation or relocation of the facilities is technically possible, the cost and availability of funds, as well as the reliability and operational factors of doing so would need to be examined in detail. Implementation of such a project may not be as high a priority as projects that address the federal consent decree.
  - c. Relocate PS 5 (in its entirety) to a site at Kamehameha Iki Park. The same factors apply to this alternative as with the preceding option.
  - d. Utilize vacuum system technology to eliminate the need for PS 5. Vacuum systems have been used in small residential areas and not in large applications such as this. There is insufficient data and evidence to support the use of this system at this time.
7. In the past, a few pump stations were constructed with subsurface facilities. However, due to problems with reliability, the DPWWM has gone back to building pump stations with above-grade facilities.
8. The work for the relocation of PS 5 would involve sheet piles and dewatering, due to the high water table in the area and the required depth of the wet wells. These factors contribute to the relocation costs.
9. PS 5 improvements are grandfathered to previous regulatory requirements. Should PS 5 be relocated, compliance with current regulatory requirements (e.g., ADA, building, electrical, flood hazard area), would need to be addressed.
10. A rough estimate of the cost for relocating PS 5 is about \$2.5 to \$5.0 million.

Akoni Akana, Executive Director  
June 27, 2002  
Page 3

Preliminary engineering and planning feasibility studies should be included if a total relocation cost is to be defined for funding purposes.

11. A funding initiative for the relocation of PS 5 could be introduced by the Friends of Moku`ula. Should funding be appropriated in the near term, construction for the relocation of PS 5 could possibly commence in 3 to 4 years and would take 1 to 2 years to construct, depending on the selected alternative.
12. Upon request, the public works director can assign a representative from the DPWWM to work with the Friends of Moku`ula for coordination and technical support purposes.
13. As an interim measure, planning for both projects could proceed on the basis of leaving PS 5 at its current location and blending it in with the Moku`ula restoration project until such time that funds become available for its relocation.

Based on the foregoing, I recognize the need for the County of Maui and the Friend of Moku`ula to work closely together to achieve our respective goals. While PS 5 is excluded from the license agreement between the County of Maui and the Friends of Moku`ula, I understand the importance of addressing and respecting spatial relationships to achieve the objectives of the Moku`ula site plan. Therefore, while the scope and funding availability for the force main project precludes the relocation of the existing PS 5 at this time, our Department is anxious to work with you to identify a viable and mutually acceptable long-term solution.

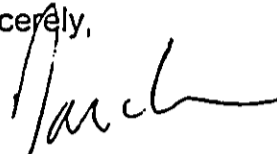
As discussed with the project team, an interim measure involving options for visually integrating the pump station structure with the Moku`ula site plan may also be considered. With this in mind, I have asked my staff to work with you in defining an acceptable visual design solution which will provide for the sensitive integration of PS 5 with the Moku`ula restoration project. In the mean time, I would be happy to meet with you to discuss strategies for achieving the long-term goals regarding PS 5.

Your written response to confirm the acceptability of this initial step to cooperatively ensure the success of our projects would be very much appreciated.

Akoni Akana, Executive Director  
June 27, 2002  
Page 4

Please feel free to call me at 244-7845 should you have any questions concerning this letter.

Sincerely,



DAVID GOODE  
Director of Public Works and Waste Management

DG:tn

xc: Eric Nakagawa, Wastewater Reclamation Division  
Eric Yamashige, Ronald M. Fukumoto Engineering  
Glenn Tadaki, Munekiyo & Hiraga, Inc.

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BENJAMIN J. CAYETANO  
GOVERNOR OF HAWAII



STATE OF HAWAII

DEPARTMENT OF LAND AND NATURAL RESOURCES

HISTORIC PRESERVATION DIVISION  
KAKUHIHEWA BUILDING, ROOM 555  
601 KAMOKULA BOULEVARD  
KAPOLEI, HAWAII 96707

JUN 21 2002  
M

GILBERT S. COLOMA-AGARAN, CHAIRPERSON  
BOARD OF LAND AND NATURAL RESOURCES  
COMMISSION ON WATER RESOURCES MANAGEMENT

DEPUTES  
ERIC T. MIRANO  
LIVNEL NISHIKAWA

AQUATIC RESOURCES  
BOATING AND OCEAN RECREATION  
COMMISSION ON WATER RESOURCE  
MANAGEMENT  
CONSERVATION AND RESOURCES  
ENFORCEMENT  
CONVEYANCES  
FORESTRY AND WILDLIFE  
HISTORIC PRESERVATION  
LAND  
STATE PARKS

June 21, 2002

Mr. Glen Tadaki  
Munekiyo & Hiraga, Inc.  
305 South High Street, Suite 104  
Wailuku, Hawaii 96793

LOG NO: 30131 ✓  
DOC NO: 0206CD39

Dear Mr. Tadaki,

**SUBJECT: Chapter 6E-8 Historic Preservation Review Pertaining to an Information Request for the Propose Lahaina Wastewater Pump Station Nos. 5 and 6 – Force Main Improvements  
Various Ahupua`a, Lahaina District, Island of Maui  
TMK: (2) 4-6-002, 003, 005, 006, 007, 010, 011, 012, 015, 016, and 027**

Thank you for the opportunity to provide comments pertaining to your information request regarding the proposed Lahaina Wastewater Pump Station Nos. 5 and 6 – Force Main Improvements, which was received by our office May 17, 2002. Our review is based on reports, maps, and aerial photographs maintained at the State Historic Preservation Division; no field inspection was conducted of the subject property.

Based on the submitted information request, we understand the proposed force main improvements involves the installation of approximately 7000 linear feet of new force main within the County right-of-way along Shaw Street, and portions of Front, Mill, and Dickenson Street. The proposed undertaking will also involve the installation of a new 16-inch PVC and HDPE force main from Pump Station No. 5 to an existing sewer manhole at the Honoapi`ilani Highway/Dickenson Street intersection.

A search of our records indicates an archaeological inventory survey has not been conducted of the subject property. The proposed project area is located within the boundaries of the Historic Lahaina District (State Site 50-50-03-3001). This area comprises the port town of the 1800s and is likely to have once been the location of pre-Contact farming, perhaps with scattered houses. Although the proposed project corridor will be located within the previously disturbed County rights-of-way, we believe that it is possible that historic sites and/or remnants of historic sites may be present in the subsurface deposits, given the history of this area.

Given the above information, we recommend that an archeological inventory survey, in the form of archaeological monitoring, be conducted concurrently with the construction activities for the portions of the proposed project corridor involving Front and Shaw Streets. We recommend archaeological monitoring for the portion of the proposed project involving Mill and Dickenson Streets. However, should significant cultural deposits be identified along Shaw Street, we



Mr. Glen Tadaki  
Page 2

recommend that an archaeological inventory survey, in the form of archaeological monitoring be conducted concurrently with the construction activities for the proposed project corridor involving Mill and Dickenson Streets. This monitoring should identify any historic sites that might be present, adequately record them, and enable appropriate mitigation.

We further recommend that no work commence on the proposed undertaking until an acceptable monitoring plan has been submitted to this office for review. An acceptable report documenting the findings of the monitoring activities will need to be submitted to this office for review upon 180 days following the completion of the proposed undertaking.

If you have any questions, please call Cathleen Dagher at (808) 692-8023.

Aloha,



Don Hibbard, Administrator  
State Historic Preservation Division

CD:jen



July 3, 2002

Don Hibbard, Administrator  
State Historic Preservation Division  
Dept. of Land and Natural Resources  
Kakuhihewa Building, Room 555  
601 Kamokila Boulevard  
Kapolei, Hawaii 96707

SUBJECT: Lahaina Wastewater Pump Station Nos. 5 and 6 - Force Main Improvements; TMK 4-6-2, 3, 5, 6, 7, 11, 12, 15, 16 and 27

Dear Mr. Hibbard:

Thank you for providing us with your June 21, 2002 early consultation comments on the above-referenced project. We would also like to thank Melissa Kirkendall of your Maui office for meeting with us on May 9, 2002 to discuss archaeological considerations relative to the project.

On behalf of the applicant, the County of Maui, Department of Public Works and Waste Management, we would like to note that an archaeological monitoring plan will be submitted to the State Historic Preservation Division (SHPD) for review and approval prior to the commencement of construction, and a report documenting the findings of monitoring activities will be submitted to the SHPD upon completion of the project.

As discussed during our meeting with Ms. Kirkendall, a flat-edged bucket will be utilized during work in sandy areas due to the potential of locating human burials and cultural deposits. In addition, an archaeological monitor will be on hand to inspect the test boring samples from the geotechnical drilling for the project's design phase.

Don Hibbard, Administrator  
July 3, 2002  
Page 2

Thank you again for providing us with your comments. Please feel free to call me should you have any questions.

Sincerely,



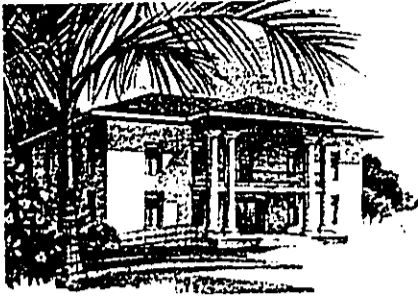
Glenn Tadaki, Planner

GT:tn

cc: Eric Nakagawa, Department of Public Works and Waste Management  
Eric Yamashige, Ronald M. Fukumoto Engineering, Inc.

rfc/thn5&8/shpdtr.001

JUL 18 2002-



# LAHAINATOWN

## A C T I O N C O M M I T T E E

Annual Events: Chinese New Year • WhaleFest • Banyan Tree Birthday • In Celebration of Canoes  
Lahaina Poster Contest • Maui Chefs • A Taste of Lahaina & the Best of Island Music  
Halloween - The Mardi Gras of the Pacific • Festival of Art and Flowers  
On-going Events: He U'i Cultural Arts Festival • Friday Night is Art Night

July 15, 2002

Mr. Glenn Tadaki  
Munekiyo & Hiraga, Inc.  
305 High Street  
Wailuku, Hawaii 96793

SUBJECT: Lahaina Wastewater Pump Station Nos. 5 and 6 - Force Main Improvements;  
TMK 4-6-2, 3, 5, 6, 7, 11, 12, 15, 16 and 27

Dear Mr. Tadaki:

The LahainaTown Action Committee (LAC) notes that the proposed alignment avoids the town's central business core along Front Street. The LAC has no objections to the proposed project as business/commercial activities along Front Street are not expected to be adversely affected.

Thank you for the opportunity to comment on the project.

Sincerely,

  
Theo Morrison  
Executive Director

Event Hotline: On Maui: 808.667.9194 • Mainland (toll free) 888.310.1117  
Lahaina Visitor Center: Old Lahaina Courthouse • 648 Wharf Street • Lahaina, HI 96761 • 808.667.9193  
LahainaTown Action Committee: phone: 808.667.9175 • fax: 808.661.4779  
Visit us on the web at: [www.visitlahaina.com](http://www.visitlahaina.com) • email: [info@visitlahaina.com](mailto:info@visitlahaina.com) • 648 Wharf Street • Lahaina, Maui, Hawaii 96761

# ***Chapter X***

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***Letters Received During the Draft  
Environmental Assessment Public  
Comment Period and Responses  
to Substantive Comments***

**X. LETTERS RECEIVED DURING THE DRAFT ENVIRONMENTAL ASSESSMENT PUBLIC COMMENT PERIOD AND RESPONSES TO SUBSTANTIVE COMMENTS**

Copies of the Draft Environmental Assessment (EA) were distributed to the same agencies and organizations that were consulted during the early consultation process, as well as to the Lahaina Public Library and the Office of Environmental Quality Control. Pursuant to the requirements of the environmental review process, letters received during the Draft EA public comment period, as well as responses to substantive comments, are included in this section.



DEPARTMENT OF  
**HOUSING AND HUMAN CONCERNS**  
COUNTY OF MAUI

JAMES "KIM" APANA  
Mayor  
ALICE L. LEE  
Director  
PRISK H. LA'P. MIKELI  
Deputy Director

200 SOUTH HIGH STREET • WAILUKU, HAWAII 96793 • PHONE (808) 270-7805 • FAX (808) 270-7165

August 8, 2002

Mr. Glenn Tadaki  
Munekiyō & Hiraga, Inc.  
305 High Street, Suite 104  
Wailuku, Hawaii 96793

Dear Mr. Tadaki:

Subject: Lahaina Wastewater Pump Station  
Nos. 5 and 6 & Force Main Improvements,  
TMK Plats 4-6-2, 3, 5, 6, 7, 10, 11, 12,  
15, 16 and 17

As requested by Mr. David Goode, Director of Public Works & Waste Management, County of Maui, in his August 6, 2002 letter, we have reviewed the draft Environmental Assessment for the subject project and wish to inform you that we have no comment to offer. We are enclosing the draft Environmental Assessment for your use.

Thank you for the opportunity to comment.

Very truly yours,

ALICE L. LEE  
Director

ETO:df

Enclosure

c: Housing Administrator



AUG 23 2002

# LAHAINATOWN

## A C T I O N C O M M I T T E E

Annual Events: Chinese New Year • WhaleFest • Banyan Tree Birthday • In Celebration of Canoes  
Lahaina Poster Contest • Maui Chefs • A Taste of Lahaina & the Best of Island Music  
Halloween • The Mardi Gras of the Pacific • Festival of Art and Flowers  
On-going Events: He 'Ū Cultural Arts Festival • Friday Night is Art Night

August 9, 2002

Munekiyo & Hiraga, Inc.  
Attention: Glenn Tadaki  
305 High Street, Suite 104  
Wailuku, HI 96793

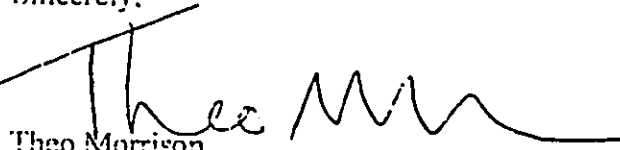
**SUBJECT: Lahaina Wastewater Pump Station Nos. 5 and 6 - Force Main  
Improvements: TMK 4-6-2, 3, 5, 6, 7, 11, 12, 15, 16, and 27**

Dear Mr. Tadaki:

Thank you for the opportunity to comment on the project's Draft EA. As noted in our letter dated July 15, 2002, the LahainaTown Action Committee has no objections to the project, as it will improve wastewater system operations in Lahaina and is not expected to have an adverse impact on business/commercial activities along Front Street.

Please feel free to call me should you have any questions.

Sincerely,

  
Theo Morrison  
Executive Director

Event Hotline: On Maui: 808.667.9194 • Mainland (toll free) 888.310.1117  
Lahaina Visitor Center: Old Lahaina Courthouse • 648 Wharf Street • Lahaina, HI 96761 • 808.667.9193  
LahainaTown Action Committee: phone: 808.667.9175 • fax: 808.661.4779  
Visit us on the web at: [www.visitlahaina.com](http://www.visitlahaina.com) • email: [info@visitlahaina.com](mailto:info@visitlahaina.com) • 648 Wharf Street • Lahaina, Maui, Hawaii 96761



DOCUMENT CAPTURED AS RECEIVED



REPLY TO  
ATTENTION OF  
Regulatory Branch

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

AUG 13 2002

August 9, 2002

Mr. Glen Tadaki, Planner  
Munekiyo & Hiraga, Inc.  
305 High Street, Suite 104  
Wailuku, Hawaii 96793

Dear Mr. Tadaki:

This letter responds to the County of Maui Department of Public Works and Waste Management letter dated August 6, 2002 requesting comments on the draft Environmental Assessment (DEA) for the proposed *force main improvements in Lahaina, Maui*. Based on the information provided in the DEA I have determined that there are no waters of the United States including wetlands at the project site and therefore a Department of the Army (DA) permit will not be required for this project.

If you have any questions concerning this determination, please contact William Lennan of my staff at 438-6986 or FAX 438-4060, and reference File No. 200200341.

Sincerely,

*William B. Lennan*  
for George P. Young, P.E.  
Chief, Regulatory Branch

DOCUMENT CAPTURED AS RECEIVED

BENJAMIN J. CAYETANO  
GOVERNOR



AUG 14 2002

GENEVIEVE SALMONSON  
DIRECTOR

STATE OF HAWAII  
OFFICE OF ENVIRONMENT QUALITY CONTROL  
235 SOUTH BERETANIA STREET  
SUITE 702  
HONOLULU, HAWAII 96813  
TELEPHONE (808) 586-4185  
FACSIMILE (808) 586-4186

August 13, 2002

Mr. David Goode, Director  
Department of Public Works and Waste Management  
County of Maui  
200 South High Street  
Wailuku, Hawai'i 96793

Dear Mr. Goode:

Subject: Lahaina Wastewater Pump Stations Nos. 5 & 6 - Force Main Improvements

Thank you for the opportunity to review the subject document. We have the following comment.

1. Please describe the noise impacts of the new pumps and motors at pump station number 5.

Should you have any questions, please call Jeyan Thirugnanam at 586-4185.

Sincerely,

A handwritten signature in cursive script, appearing to read "Genevieve Salmonson".

Genevieve Salmonson  
Director

c: Munekiyo & Hiraga, Inc.



August 26, 2002

Genevieve Salmonson, Director  
Office of Environmental Quality Control  
Department of Health  
235 S. Beretania Street, #702  
Honolulu, Hawaii 96813

**SUBJECT:** Lahaina Wastewater Pump Station Nos. 5 and 6 - Force Main Improvements; TMK: 4-6-2, 3, 5, 6, 7, 11, 12, 15, 16 and 27

Dear Ms. Salmonson:

Thank you for providing us with your August 13, 2002 letter commenting on the subject's Draft Environmental Assessment (EA). On behalf of the County of Maui, Department of Public Works and Waste Management, we would like to note the following.

The noise generated by the existing pumps and motors at Pump Station Nos. 5 and 6 does not adversely impact ambient noise levels. The existing pumps and motors at Pump Station No. 5 are housed approximately 20 feet underground in a dry well that extends below the pump station building. At Pump Station No. 6, the motors are located in the pump station building, while the pumps lie in a dry well beneath the building at an elevation about 20 feet below surface grade.

The new pumps and motors, which are of quieter design, will replace the existing equipment and will be installed in the dry wells approximately 20 feet below the pump station buildings.

Genevieve Salmonson, Director  
August 26, 2002  
Page 2

Thank you again for providing us with your comments. Please feel free to call me should you have any questions.

Sincerely,



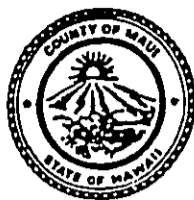
Glenn Tadaki, Planner

GT:tn

cc: Eric Nakagawa, Department of Public Works and Waste Management (w/enclosures)  
Eric Yamashige, Ronald Fukumoto Engineering, Inc. (w/enclosures)

re/hr588/oeqcltr.002

JAMES "KIMO" APANA  
Mayor



FLOYD S. MIYAZONO  
Director

GLENN T. CORREA  
Deputy Director

(808) 270-7230  
Fax (808) 270-7934

## DEPARTMENT OF PARKS & RECREATION

1580-C Kaahumanu Avenue, Wailuku, Hawaii 96793

August 13, 2002

Mr. David Goode  
Director of Public Works and Waste  
Management  
200 South High Street  
Wailuku, Hawaii 96793

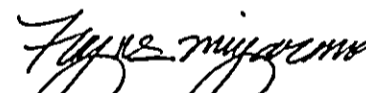
Dear Mr. Goode:

**SUBJECT:** Lahaina Wastewater Pump Stations Nos. 5 and 6-Force Main  
Improvements; TMK Plats 4-6-2, 3, 5, 6, 7, 10, 11, 12, 15, 16 and 17

Thank you for the opportunity to review the Draft Environmental Assessment for the subject project. At this time, we have no comments or objections to the proposed action.

Please contact me or Mr. Patrick Matsui, Chief of Parks Planning and Development, at 270-7387 if there are any questions.

Sincerely,

  
FLOYD S. MIYAZONO  
Director

c: Patrick Matsui, Chief of Planning and Development  
Glenn Tadaki, Munekiyo & Hiraga, Inc.



JAMES "KIMO" APANA  
MAYOR

OUR REFERENCE  
YOUR REFERENCE

**POLICE DEPARTMENT**  
COUNTY OF MAUI

55 MAHALANI STREET  
WAILUKU, HAWAII 96793  
(808) 244-6400  
FAX (808) 244-6411

August 15, 2002



AUG 15 2002

THOMAS M. PHILLIPS  
CHIEF OF POLICE

KEKUHAPUIO R. AKANA  
DEPUTY CHIEF OF POLICE

Mr. Glenn Tadaki  
Planner  
Munekiyo & Hiraga, Inc.  
305 High Street, Suite 104  
Wailuku, HI 96793


Dear Mr. Tadaki:

SUBJECT: Lahaina Wastewater Pump Station Nos. 5 and 6-Force Main  
Improvements: TMK Plats 4-6-2, 3, 5, 6, 7, 10, 11, 12, 15, 16,  
and 17

The Maui County Department of Public Works as requested comments on the  
above subject.

We have reviewed the proposed summary and have enclosed our comments and  
recommendations. Thank you for giving us the opportunity to comment on this  
project.

Very truly yours,

  
Assistant Chief Robert Tam Ho  
for: Thomas M. Phillips  
Chief of Police

Enclosures

c: John E. Min, Planning Department  
David C. Goode, Public Works  
Eric Nakagawa, Wastewater Reclamation Division

TO : THOMAS PHILLIPS, CHIEF OF POLICE  
VIA : CHANNELS  
FROM : ROCKY LASSETER, POLICE OFFICER, LAHAINA DISTRICT  
SUBJECT : LAHAINA WASTEWATER PUMP STATION NOS. 5 AND 6 - FORCE MAIN IMPROVEMENTS

A-4  
8/15/02

A review of the information provided by the Department of Planning has been completed.

The development of this proposed project will have no significant impact on police services.

The proposed project will involve the installation of a new force main within the County roadway rights-of-way along Shaw Street and portions of Front and Dickenson Street, as well as along Mill Street.

Most of these roads will be obstructed or totally block in the area during construction. It is recommended that checks be made with the State and County in regards to other projects either on the Honoapiilani Highway or county roads to insure that no other construction projects coincide with this one

No further comments or recommendations are made at this time.

*of concern with de.  
Parrister finding  
4/6*

ROCKY LASSETER, E-7298  
POLICE OFFICER - LAHAINA DISTRICT  
08/12/02 1235 HOURS

*Also concern  
At AA - 146  
28-13-02 1400*

*Forward through -  
Cpl. S. Daniel  
8/14/02*



August 26, 2002

Thomas M. Phillips, Chief  
Police Department  
County of Maui  
55 Mahalani Street  
Wailuku, Hawaii 96793

SUBJECT: Lahaina Wastewater Pump Station Nos. 5 and 6 - Force Main Improvements; TMK 4-6-2, 3, 5, 6, 7, 11, 12, 15, 16 and 27

Dear Mr. Phillips:

Thank you for providing us with your August 15, 2002 letter commenting on the subject's Draft Environmental Assessment (EA). On behalf of the County of Maui, Department of Public Works and Waste Management (DPWWM), we would like to note the following.

To minimize traffic disruptions due to project-related construction activities, the DPWWM will check with State and County agencies to identify the construction schedules of other projects in the area.

Thank you again for providing us with your comments. Please feel free to call me should you have any questions.

Sincerely,

Glenn Tadaki, Planner

GT:tn

cc: Eric Nakagawa, Department of Public Works and Waste Management  
Eric Yamashige, Ronald Fukumoto Engineering, Inc.

rfe/lho5&8/mpdlr.001



BENJAMIN J. CAYETANO  
GOVERNOR



SEP 04 2002  
BRUCE S. ANDERSON, Ph.D., M.P.H.  
DIRECTOR OF HEALTH

LORRIN W. PANG, M.D., M.P.H.  
MAUI DISTRICT HEALTH OFFICER

**STATE OF HAWAII**  
DEPARTMENT OF HEALTH  
**MAUI DISTRICT HEALTH OFFICE**  
54 HIGH STREET  
WAILUKU, MAUI, HAWAII 96793

August 29, 2002

Mr. Glenn Tadaki  
Planner  
Munekiyo & Hiraga, Inc.  
305 High Street, Suite 104  
Wailuku, Hawai'i 96793

Dear Mr. Tadaki:

**Subject: Lahaina Wastewater Pump Station Nos. 5 and 6, Force Main Improvements  
TMK Plats 4-6-2, 3, 5, 6, 7, 10, 11, 12, 15, 16, and 17**

Thank you for the opportunity to comment on the Draft Environmental Assessment addressing the proposed improvements to the Lahaina sewer system. The applicant is reminded of the following:

1. National Pollutant Discharge Elimination System (NPDES) general permit coverage.
2. The development of dust control management plan. Implementation of adequate dust control measures during all phases of the project is warranted.
3. A noise permit may be required and should be obtained before the commencement of work.
4. The replacement motors and pumps are allowed maximum sound levels. The attenuation of noise from these sources will depend on the location and placement of these types of equipment. This should be taken into consideration during the planning, design, and construction of the building and installation of these types of equipment.

Should you have any questions, please call me at 984-8230.

Sincerely,

A handwritten signature in black ink, appearing to read "H. Matsubayashi", enclosed in a circular scribble.

Herbert S. Matsubayashi  
District Environmental Health Program Chief

c: David Goode



September 11, 2002

Herbert S. Matsubayashi, District  
Environmental Health Program Chief  
Maui District Health Office  
Department of Health  
State of Hawaii  
54 High Street  
Wailuku, Hawaii 96793

SUBJECT: Lahaina Wastewater Pump Station Nos. 5 and 6 - Force Main  
Improvements; TMK 4-6-2, 3, 5, 6, 7, 11, 12, 15, 16 and 27

Dear Mr. Matsubayashi:

Thank you for providing us with your August 29, 2002 letter commenting on the subject's Draft Environmental Assessment (EA). On behalf of the applicant, the County of Maui, Department of Public Works and Waste Management (DPWWM), we would like to note the following.

National Pollutant Discharge Elimination System (NPDES) permit coverage will be obtained, as necessary, for any construction discharge into State waters. In addition, construction activities will comply with applicable Department of Health requirements regarding dust and noise control.

The noise generated by the existing pumps and motors at Pump Station Nos. 5 and 6 does not adversely affect ambient noise levels. The new and quieter pumps and motors will be placed about 20 feet underground in the dry wells beneath the pump station buildings.

Herbert S. Matsubayashi, District  
Environmental Health Program Chief  
September 11, 2002  
Page 2

Thank you again for providing us with your comments. Please feel free to call me should you have any questions.

Sincerely



Glenn Tadaki, Planner

GT:tn

cc: Eric Nakagawa, Department of Public Works and Waste Management  
Eric Yamashige, Ronald Fukumoto Engineering, Inc.

rfc/hn5&6/dohlr.002

SEP, 06 2002



STATE OF HAWAII  
DEPARTMENT OF LAND AND NATURAL RESOURCES  
LAND DIVISION  
P.O. BOX 621  
HONOLULU, HAWAII 96809

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

September 4, 2002

L-1240/963/1494/1023/1054

LD-NAV  
LAHAINAWWPUMPSTATION.RCM

Munekiyo and Hiraga, Inc.  
Gleen Tadaki  
305 High Street, Suite 104  
Wailuku, Hawaii 96793

Dear Mr. Tadaki:

SUBJECT: Draft Environmental Assessment Covering The Lahaina Wastewater Pump Station Nos. 5 and 6 Force Main Improvements - County of Maui, Department of Public Works - TMK: 4-6 Various Plats

Thank you for the opportunity to review and comment on the subject Draft Environmental Assessment (DEA).

The Department of Land and Natural Resources' (DLNR) Land Division distributed a copy of the DEA covering the Lahaina Wastewater Pump Station Nos. 5 and 6 Force Main Improvements to the following DLNR Divisions for their review and comment:

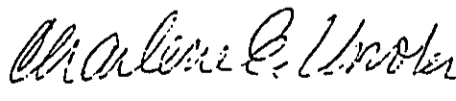
- Division of Aquatic Resources
- Division of Forestry & Wildlife
- Division of State Parks
- Commission on Water Resource Management
- Land Division Planning and Technical Services
- Land Division Engineering Branch
- Land Division Maui District Land Office

Attached herewith is a copy of the Land Division Engineering Branch and Maui District Land Office comment.

Based on the attached responses, the Department of Land and Natural Resources has no other comment to offer. Should the Land Division receive additional comments, they will be forwarded to your office at that time.

If you have any questions, please feel free to contact Nicholas A. Vaccaro of the Land Division Support Services Branch at (808) 587-0384.

Very truly yours,

  
for DIERDRE S. MAMIYA  
Administrator

C: Maui District Land Office



STATE OF HAWAII  
 DEPARTMENT OF LAND AND NATURAL RESOURCES  
 LAND DIVISION  
 P.O. BOX 621  
 HONOLULU, HAWAII 96809  
 August 8, 2002

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

LD/NAV  
 Ref.: LAHAINAWWPUMPSTATION

L-836  
 Suspense Date: 8/29/02

MEMORANDUM:

- TO:  XXX Division of Aquatic Resources (DISTRIBUTED DOC)  
 XXX Division of Forestry & Wildlife (DISTRIBUTED DOC)  
 Na Ala Hele Trails  
 XXX Division of State Parks (DISTRIBUTED DOC)  
 Division of Boating and Ocean Recreation  
 \*  XXX Commission on Water Resource Management  
 Land Division Branches:  
 \*  XXX Planning and Technical Services  
 \*  XXX Engineering Branch  
 XXX Maui District Office (DISTRIBUTED DOC)

FROM: *J* Dierdre S. Mamiya, Administrator *Dierdre*  
 Land Division

SUBJECT Draft Environmental Assessment (DEA) Covering Lahaina  
 Wastewater Pump Station Nos. 5 and 6 Force Main  
 Improvements - County of Maui, Department of Public Works  
 and Waste Management

Please review the DEA covering the subject matter and submit your comments (if any) on Division letterhead signed and dated within the time requested above.

\* One copy of the DEA is available for review in the Land Division Office, room 220

Should you need more time to review the subject matter, please contact Nicholas A. Vaccaro at ext.: 7-0438.

If this office does not receive your comments on or before the suspense date, we will assume there are no comments.

We have no comments.

Comments attached.

Signed: *Dierdre Mamiya*

Date: *DOFAW Administrator*  
*8/9/02*



STATE OF HAWAII  
 DEPARTMENT OF LAND AND NATURAL RESOURCES  
 LAND DIVISION  
 P.O. BOX 621  
 HONOLULU, HAWAII 96809  
 August 8, 2002

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

LD/NAV  
 Ref.: LAHAINAWWPUMPSTATION

L-836  
 Suspense Date: 8/29/02

MEMORANDUM:

TO: XXX Division of Aquatic Resources (DISTRIBUTED DOC)  
 XXX Division of Forestry & Wildlife (DISTRIBUTED DOC)  
 Na Ala Hele Trails  
 ✓ XXX Division of State Parks (DISTRIBUTED DOC)  
 Division of Boating and Ocean Recreation  
 \* XXX Commission on Water Resource Management  
 Land Division Branches:  
 \* XXX Planning and Technical Services  
 \* XXX Engineering Branch  
 XXX Maui District Office (DISTRIBUTED DOC)

ADMINISTRATOR:  
 ASST ADMIN  
 DEV BR  
 PLAN BR  
 RES MGT BR  
 CLERICAL  
 ADMIN ASST  
 INTERP BR  
 OR:  
 CIRC/POST/STAFF Rm  
 COMMENTS & REC  
 DRAFT REPLY  
 FILE  
 FOLLOW UP  
 INFO  
 RUN COPIES  
 CASH DUB  
 SEE ME  
 FAX/SEND COPY TO

FROM: *J* Dierdre S. Mamiya, Administrator  
 Land Division *DM*

SUBJECT Draft Environmental Assessment (DEA) Covering Lahaina  
 Wastewater Pump Station Nos. 5 and 6 Force Main  
 Improvements - County of Maui, Department of Public Works  
 and Waste Management

Please review the DEA covering the subject matter and submit  
 your comments (if any) on Division letterhead signed and dated  
 within the time requested above.

\* One copy of the DEA is available for review in the Land  
 Division Office, room 220

Should you need more time to review the subject matter, please  
 contact Nicholas A. Vaccaro at ext.: 7-0438.

If this office does not receive your comments on or before the  
 suspense date, we will assume there are no comments.

We have no comments.

Comments attached.

Signed: *Dierdre S. Mamiya*

Date: *8/9/02*

ADMINISTRATIVE  
 FINANCIAL  
 GENERAL  
 LEGAL  
 PLANNING  
 TECHNICAL  
 OTHER  
 FILED  
 INDEXED  
 SERIALIZED  
 RECORDED  
 APPROVED  
 REJECTED  
 RETURNED  
 OTHER

00-601  
 PB



STATE OF HAWAII  
 DEPARTMENT OF LAND AND NATURAL RESOURCES  
 LAND DIVISION  
 P.O. BOX 621  
 HONOLULU, HAWAII 96809  
 August 8, 2002

RECEIVED

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

LD/NAV  
 Ref.: LAHAINAWWPUMPSTATION

L-836  
 Suspense Date: 8/29/02

**MEMORANDUM:**

- TO:
- XXX Division of Aquatic Resources (DISTRIBUTED DOC)
  - XXX Division of Forestry & Wildlife (DISTRIBUTED DOC)
  - Na Ala Hele Trails
  - XXX Division of State Parks (DISTRIBUTED DOC)
  - Division of Boating and Ocean Recreation
  - \*  XXX Commission on Water Resource Management
  - Land Division Branches:
  - \*  XXX Planning and Technical Services
  - \*  XXX Engineering Branch
  - XXX Maui District Office (DISTRIBUTED DOC)

AUG 12 2002

FROM: *J. Mamiya* Dierdre S. Mamiya, Administrator  
 Land Division

SUBJECT Draft Environmental Assessment (DEA) Covering Lahaina  
 Wastewater Pump Station Nos. 5 and 6 Force Main  
 Improvements - County of Maui, Department of Public Works  
 and Waste Management

Please review the DEA covering the subject matter and submit your comments (if any) on Division letterhead signed and dated within the time requested above.

\* One copy of the DEA is available for review in the Land Division Office, room 220

Should you need more time to review the subject matter, please contact Nicholas A. Vaccaro at ext.: 7-0438.

If this office does not receive your comments on or before the suspense date, we will assume there are no comments.

We have no comments.                      ( ) Comments attached.

FONSI

Signed: *D. Mamiya*  
 Date: 8/28/02



7602 AUG 29 10 30 AM '02  
**STATE OF HAWAII**  
**DEPARTMENT OF LAND AND NATURAL RESOURCES**  
**LAND DIVISION**  
 P.O. BOX 621  
 HONOLULU, HAWAII 96809  
 August 8, 2002

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

LD/NAV  
 Ref.: LAHAINAWWPUMPSTATION

L-836  
 Suspense Date: 8/29/02

MEMORANDUM:

- TO: XXX Division of Aquatic Resources (DISTRIBUTED DOC)  
 XXX Division of Forestry & Wildlife (DISTRIBUTED DOC)  
 Na Ala Hele Trails  
 XXX Division of State Parks (DISTRIBUTED DOC)  
 Division of Boating and Ocean Recreation  
 \* XXX Commission on Water Resource Management  
 Land Division Branches:  
 \* XXX Planning and Technical Services  
 \* XXX Engineering Branch  
 XXX Maui District Office (DISTRIBUTED DOC)

FROM: *J* Dierdre S. Mamiya, Administrator  
 Land Division *Mamiya*

SUBJECT Draft Environmental Assessment (DEA) Covering Lahaina  
 Wastewater Pump Station Nos. 5 and 6 Force Main  
 Improvements - County of Maui, Department of Public Works  
 and Waste Management

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 contact Nicholas A. Vaccaro at ext.: 7-0438.

If this office does not receive your comments on or before the  
 suspense date, we will assume there are no comments.

- ( ) We have no comments. (X) Comments attached.

Signed: *Lin T. Yuen*  
 Date: 8/30/02

02AUG09 PM03:27 HATER & LAND



DLNR-LAND DIVISION  
ENGINEERING BRANCH

LD/NAV

Ref.: LAHAINAWWPUMPSTATION

COMMENTS

We confirm that the project site is located in Zones C (No shading), B and A-12. Zone C is an area of minimal flooding; Zone B is an area between limits of the 100-year flood and 500-year flood; or certain areas subject to 100-year flooding with average depths of less than one (1) foot or where contributing drainage area is less than one (1) square mile; or areas protected by levees from the base flood (Medium shading); and Zone A-12 is an area of 100-year flood where base flood elevations and flood hazard factors are determined.

The project must comply with rules and regulations of the National Flood Insurance Program (NFIP) and all applicable County Flood Ordinances. If there are questions regarding the NFIP, please contact the State Coordinator, Mr. Sterling Yong, of the Department of Land and Natural Resources at 587-0248.

Should you have any questions, please call Mr. Eric Yuasa of the Project Planning Section at 587-0229.

Signed: Eric T. Yuasa  
for ANDREW M. MONDEN, CHIEF ENGINEER

Date: 8/30/07



RECEIVED  
DIVISION OF  
LAND MANAGEMENT

AGRICULTURAL RESOURCES  
BOATING AND OCEAN RECREATION  
CONSERVATION AND  
RESOURCES ENFORCEMENT  
CONVEYANCES  
FORESTRY AND WILDLIFE  
HISTORIC PRESERVATION  
LAND DIVISION  
STATE PARKS  
WATER RESOURCE MANAGEMENT

STATE OF HAWAII  
DEPARTMENT OF LAND AND NATURAL RESOURCES  
LAND DIVISION  
P.O. BOX 621  
HONOLULU, HAWAII 96809  
August 8, 2002

2002 AUG 12 PM 1:15

LD/NAV  
Ref.: LAHAINAWWPUMPSTATION

L-836  
Suspense Date: 8/29/02

MEMORANDUM:

TO: XXX Division of Aquatic Resources (DISTRIBUTED DOC)  
XXX Division of Forestry & Wildlife (DISTRIBUTED DOC)  
Na Ala Hele Trails  
XXX Division of State Parks (DISTRIBUTED DOC)  
Division of Boating and Ocean Recreation  
\* XXX Commission on Water Resource Management  
Land Division Branches:  
\* XXX Planning and Technical Services  
\* XXX Engineering Branch  
XXX Maui District Office (DISTRIBUTED DOC)

FROM: *J* Dierdre S. Mamiya, Administrator  
Land Division *Mamiya*

SUBJECT Draft Environmental Assessment (DEA) Covering Lahaina  
Wastewater Pump station Nos. 5 and 6 Force Main  
Improvements - County of Maui, Department of Public Works  
and Waste Management

Please review the DEA covering the subject matter and submit  
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Division Office, room 220

Should you need more time to review the subject matter, please  
contact Nicholas A. Vaccaro at ext.: 7-0438.

If this office does not receive your comments on or before the  
suspense date, we will assume there are no comments.

( ) We have no comments.

(  ) Comments attached.

Signed: *James K. Ryan*

Date: 8/15/02



**STATE OF HAWAII**  
DEPARTMENT OF LAND AND NATURAL RESOURCES  
LAND DIVISION

54 South High Street, Room 101  
Waituku, Hawaii 96793-2198

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

**MEMORANDUM**

Author: MDLO-lhw

DATE: August 15, 2002

TO: Ms. Dierdre S. Mamiya  
Land Division Administrator

ATTN: Mr. Nicholas Vaccaro  
Land Agent

FROM: Jason K. Koga *J. Koga*  
Maui District Land Agent

SUBJECT: Draft EA -Lahaina Wastewater Pump Station Nos. 5 & 6, and  
Force Main Improvements, Lahaina, Maui

The Maui District Land Office has reviewed the subject Draft Environmental Assessment and would like to comment that the land, on which Pump Station No. 5 is located, is owned by the State of Hawaii. Said lands were set aside to the County of Maui via Executive Order No. 1313 for Pumping Plant Site purposes, and therefore, the proposed improvements will be consistent with the purpose of the set aside.

Thank you for allowing us to review the DEA. Please call Louis Wada at 4-8105 should you have any questions.

C: District Files



September 11, 2002

Dierdre S. Mamiya, Administrator  
Land Division  
Department of Land  
and Natural Resources  
State of Hawaii  
P.O. Box 621  
Honolulu, Hawaii 96809

**SUBJECT: Lahaina Wastewater Pump Station Nos. 5 and 6 - Force Main  
Improvements; TMK 4-6-2, 3, 5, 6, 7, 11, 12, 15, 16 and 27**

Dear Ms. Mamiya:

Thank you for your September 4, 2002 letter providing comments on the subject's Draft Environmental Assessment (EA) from various Department of Land and Natural Resources divisions. On behalf of the applicant, the County of Maui, Department of Public Works and Waste Management (DPWWM), we would like to note the following.

The project will comply with applicable National Flood Insurance Program and County flood hazard area development standards. In addition, the DPWWM acknowledges that the site of Pump Station No. 5 has been set aside for such use by Executive Order No. 13113.

Thank you again for providing us with your comments. Please feel free to call me should you have any questions.

Sincerely,

Glenn Tadaki, Planner

GT:tn

cc: Eric Nakagawa, Department of Public Works and Waste Management  
Eric Yamashige, Ronald M. Fukumoto Engineering, Inc.

rfc/1hr5&6/dlr/tr.001



**DEPARTMENT OF WATER SUPPLY**  
**COUNTY OF MAUI**  
P.O. BOX 1109  
WAILUKU, MAUI, HAWAII 96793-7109  
Telephone (808) 270-7816 • Fax (808) 270-7833

September 5, 2002

Munekiyo & Hiraga Inc.  
305 High Street  
Wailuku HI 96793  
Attention: Glenn Tadaki

Project Name: Lahaina Wastewater Pump Station Nos. 5 and 6 - Force Main  
Improvements  
TMK: (2)4-6-2.3.5.6.7.10.11.12.15.16 and 27

Dear Mr. Tadaki:

Thank you for the opportunity to comment on this project. We have attached a copy of our letter dated May 24, 2002 for your reference. We have no additional comments.

Please feel free to contact our Water Resources and Planning Division at 270-7199 if there are any questions.

Sincerely,

A handwritten signature in black ink, appearing to read "D. Craddick".

David Craddick  
Director

eam  
c:: engineering division  
applicant, with attachment  
- May 24.2002 comment letter



**DEPARTMENT OF WATER SUPPLY**  
**COUNTY OF MAUI**  
P.O. BOX 1109  
WAILUKU, MAUI, HAWAII 96793-7109  
Telephone (808) 270-7816 • Fax (808) 270-7833

May 24, 2002

Mr. Glenn Tadaki, Planner  
Munekiyo & Hiraga Inc.  
305 High Street  
Wailuku HI 96793

Project Name: Lahaina Wastewater Pump Station Nos. 5 and 6 - Force Main  
Improvements  
TMK: (2)4-6-2,3,5,6,7,10,11,12,15,16 and 27

Dear Mr. Tadaki:

Thank you for the opportunity to review this application. The Department of Water Supply provides the following comments:

Attached is a map showing our existing waterlines in the proximity of the proposed project. The applicant should coordinate construction plans with our Engineering Division during the development process. This will assist in minimizing potential service disruptions during the construction process.

In order to conserve water, we recommend that brackish and/or reclaimed water sources be utilized for all non-potable water uses, including dust control during construction, if such water sources are available.

The project overlies the Launiupoko aquifer which has a sustainable yield of 8 MGD. The Department of Water Supply strives to protect the integrity of surface and groundwater resources by encouraging the applicant to adopt best management practices (BMPs) designed to minimize infiltration and runoff from construction and vehicle operations. We have attached sample BMPs for principle operations for reference. Additional information can be obtained from the State Department of Health.

Should you have any questions, please contact our Water Resources and Planning Division at 270-7199.

Sincerely,

David Craddick  
Director



September 11, 2002

David Craddick, Director  
Department of Water Supply  
County of Maui  
200 High Street  
Wailuku, Hawaii 96793

SUBJECT: Lahaina Wastewater Pump Station Nos. 5 and 6 - Force Main Improvements; TMK 4-6-2, 3, 5, 6, 7, 11, 12, 15, 16 and 27

Dear Mr. Craddick:

Thank you for providing us with your September 5, 2002 letter commenting on the subject's Draft Environmental Assessment (EA). On behalf of the applicant, the County of Maui, Department of Public Works and Waste Management (DPWWM), we would like to note the following.

The project's civil engineer has been provided with a copy of the map depicting the existing waterlines within the project corridor. The DPWWM will coordinate construction plans with the Department of Water Supply's Engineering Division to minimize the potential for service disruptions during construction activities.

Brackish or reclaimed water will be utilized for non-potable uses during construction if such sources are available. Also, Best Management Practices will be utilized during construction to minimize infiltration and runoff from construction-related activities.

Thank you again for providing us with your comments. Please feel free to call me should you have any questions.

Sincerely,

Glenn Tadaki, Planner

GT:tn

cc: Eric Nakagawa, Department of Public Works and Waste Management  
Eric Yamashige, Ronald Fukumoto Engineering, Inc.

rf/1hn58.6/dwsltr.002

# ***References***

---



## References

Interview of Edna Bekeart, May 3, 2002.

Community Resources, Inc., Maui County Community Plan Update Program Socio-Economic Forecast Report, January 1994.

County of Maui, Department of Public Works and Waste Management, Construction Plans for Front Street Improvements, May 1994.

County of Maui, West Maui Community Plan, February 1996.

Federal Emergency Management Agency, Flood Insurance Rate Map Community/Panel No. 150003/0163C, August 3, 1998.

Maui County Data Book, 2000.

Interview of Joan D'A.H. McKelvey, May 3, 2002.

Munekiyo, Arakawa & Hiraga, Inc., Final Environmental Assessment - Westside Resource Center, December 2000.

Munekiyo, Arakawa & Hiraga, Inc., Final Environmental Assessment - Wainee Office Building, July 1999.

Ronald M. Fukumoto Engineering, Inc., Preliminary Engineering Report for Lahaina Wastewater Pump Station 5 & 6 Force Main Rehabilitation, November 2000.

State Department of Labor and Industrial Relations, personal communication with Janet Kaya, April 1, 2002.

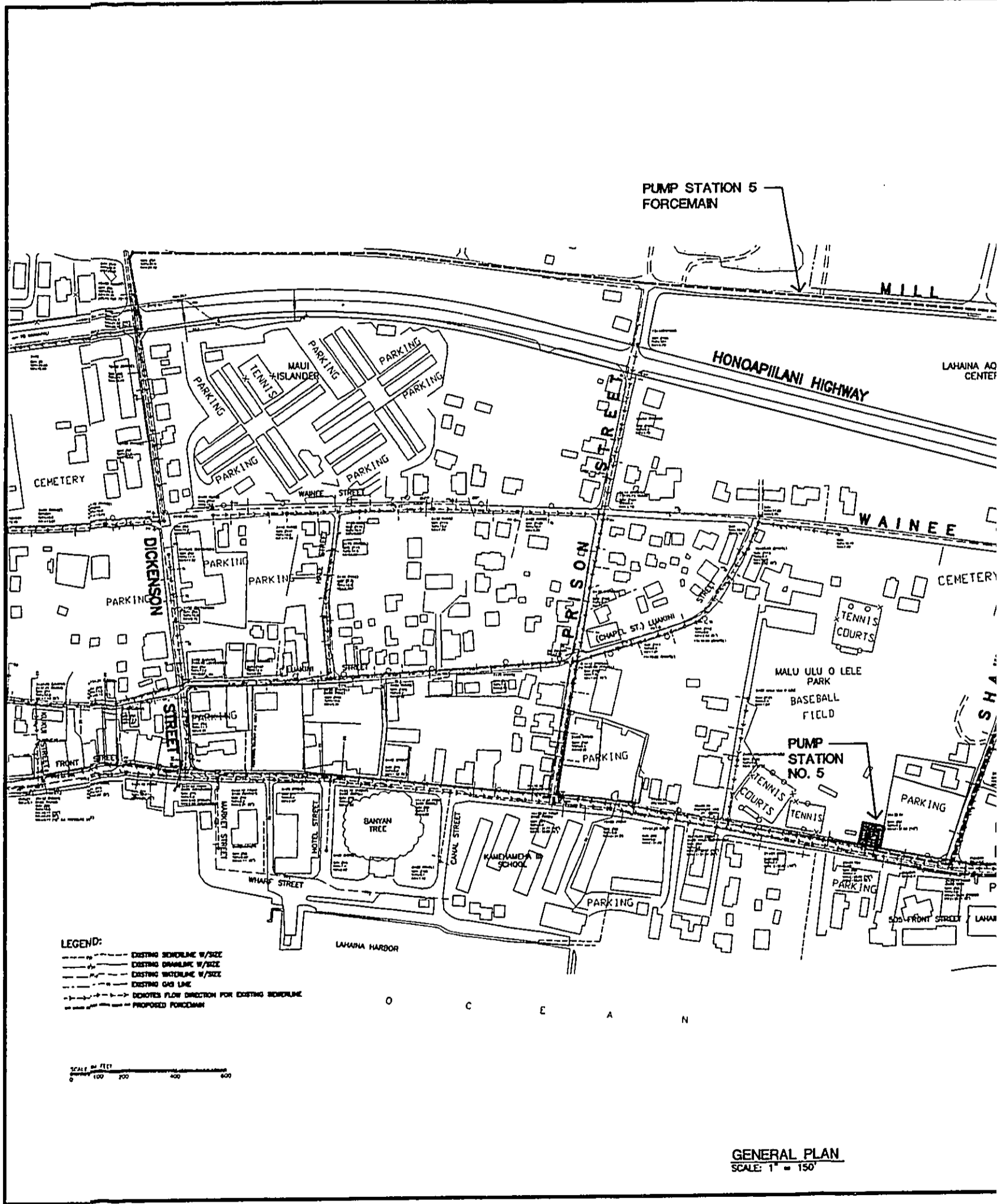
University of Hawaii, Department of Geography, Atlas of Hawaii, Third Edition, 1999.

U.S. Department of Agriculture, Soil Conservation Service, Soil Survey of Islands of Kauai, Oahu, Maui, Molokai and Lanai, State of Hawaii, 1972.

# ***Appendix A***

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***Project General Plan***



PUMP STATION 5  
FORCEMAIN

HONOAPIILANI HIGHWAY

WAIHEE

DICKENSON

DICKENSON

PUMP STATION NO. 5

**LEGEND:**

- - - - - EXISTING SEWERLINE W/SIZE
- - - - - EXISTING DRAINLINE W/SIZE
- - - - - EXISTING WATERLINE W/SIZE
- - - - - EXISTING GAS LINE
- - - - - INDICATES FLOW DIRECTION FOR EXISTING SEWERLINE
- - - - - PROPOSED FORCEMAIN



**GENERAL PLAN**  
SCALE: 1" = 150'



**RONALD M. FUKUMOTO ENGINEERING, INC.**  
 Civil Engineering & Land Surveying Consultants  
 1721 Wil Pe Loop, Suite 200  
 Waikeolu, Hawaii 96793

Phone: (808) 242-8611  
 Fax: (808) 244-7510  
 E-mail: rfe@msulgateway.com

Prepared for:



Wastewater Reclamation Div.  
 Dept. of Public Works and Waste Management  
 200 S. High Street  
 Waikeolu, Hawaii 96793  
 Phone: (808) 270-7268

**LAHAINA 5 AND 6 WASTEWATER PUMP STATION FORCEMAIN REPLACEMENT**

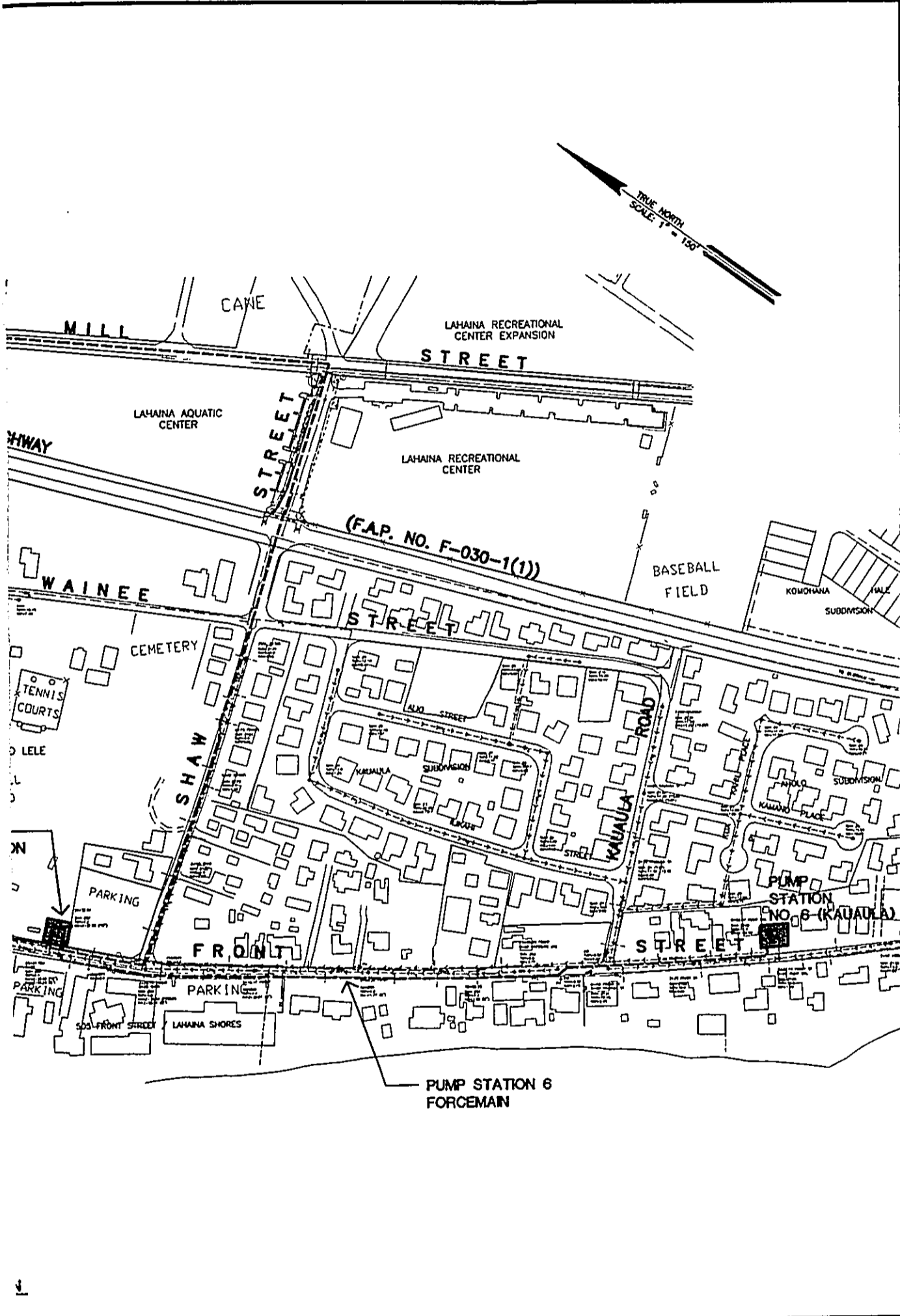
JOB NO. 00-49  
 LAHAINA, MAUI, HAWAII

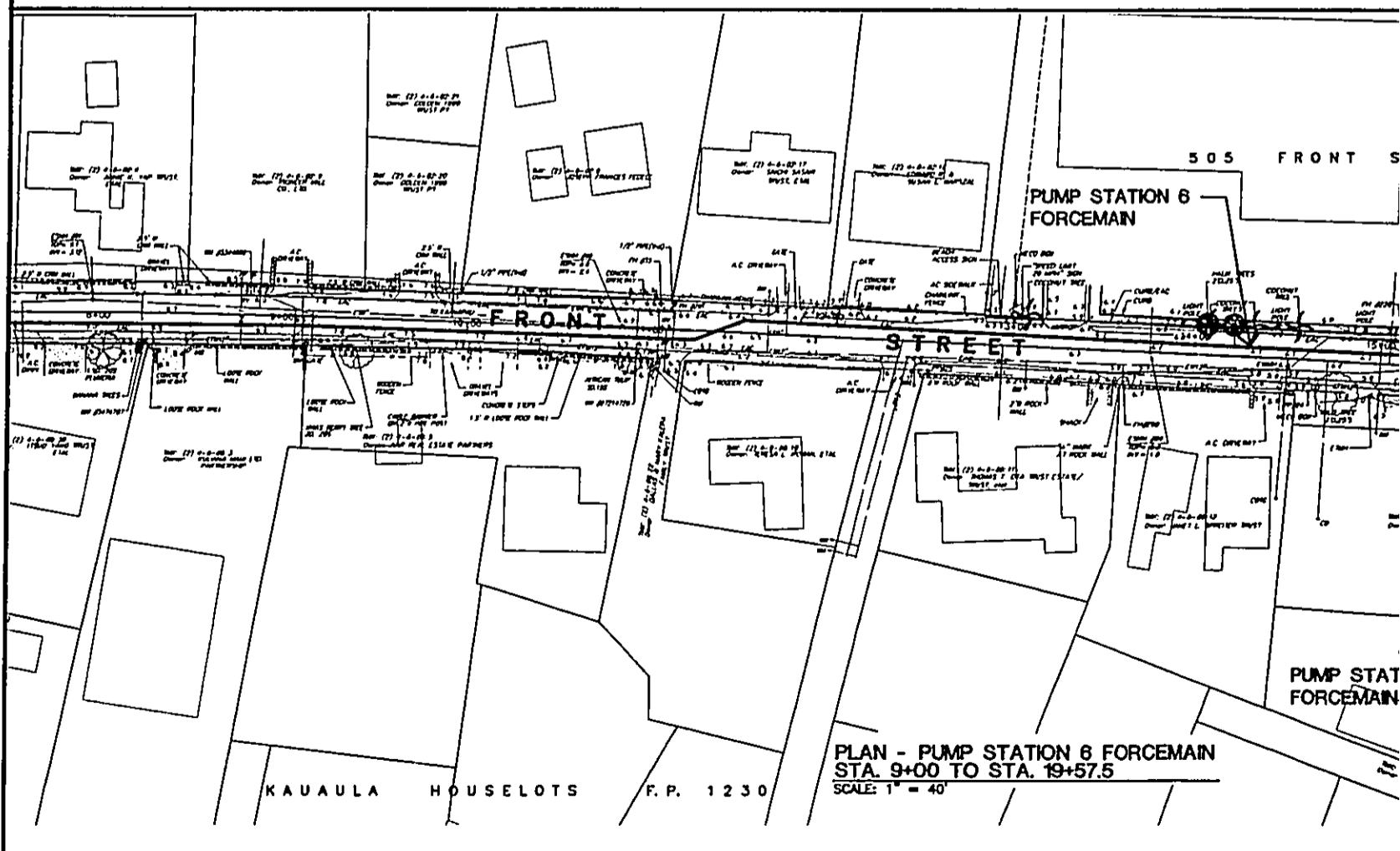
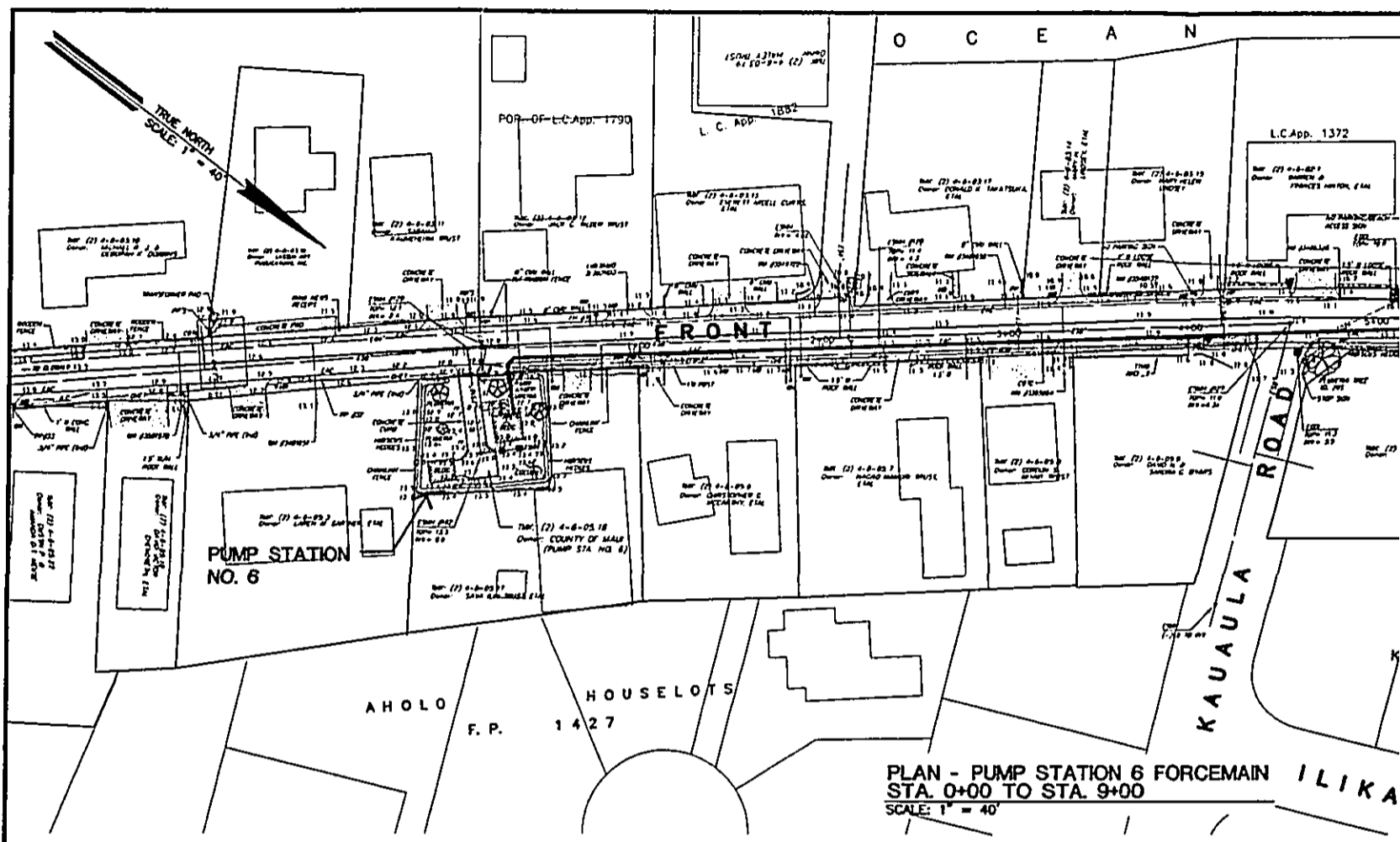
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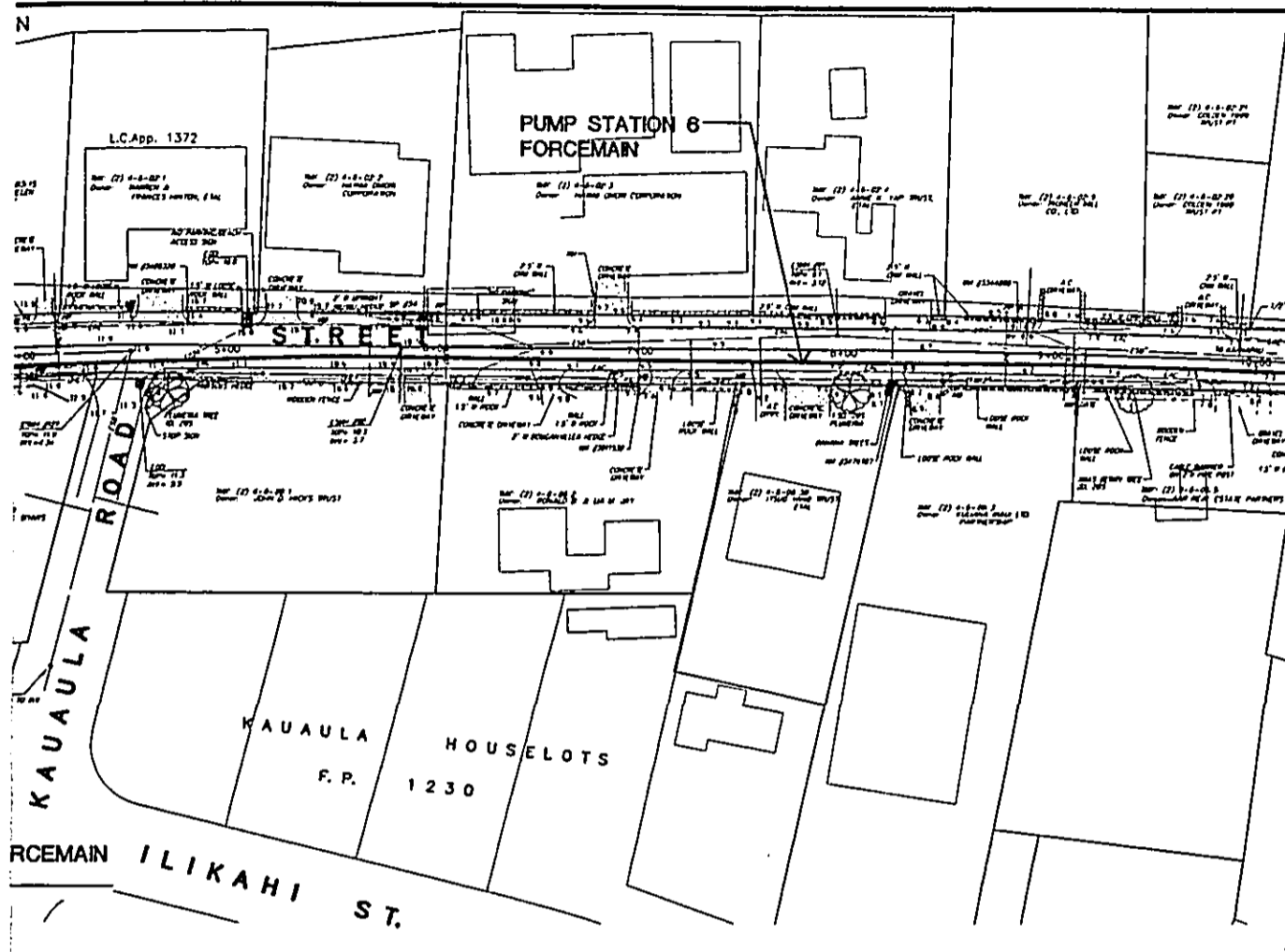
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION AS DEFINED IN IWR 10-115-2.

DESIGNED BY: E.Y.  
 DRAWN BY: S.W.  
 CHECKED BY: E.Y.  
 DATE: APRIL 28, 2002  
 FILE NO: CDM21A


SHEET **C-1**  
 1 of 5



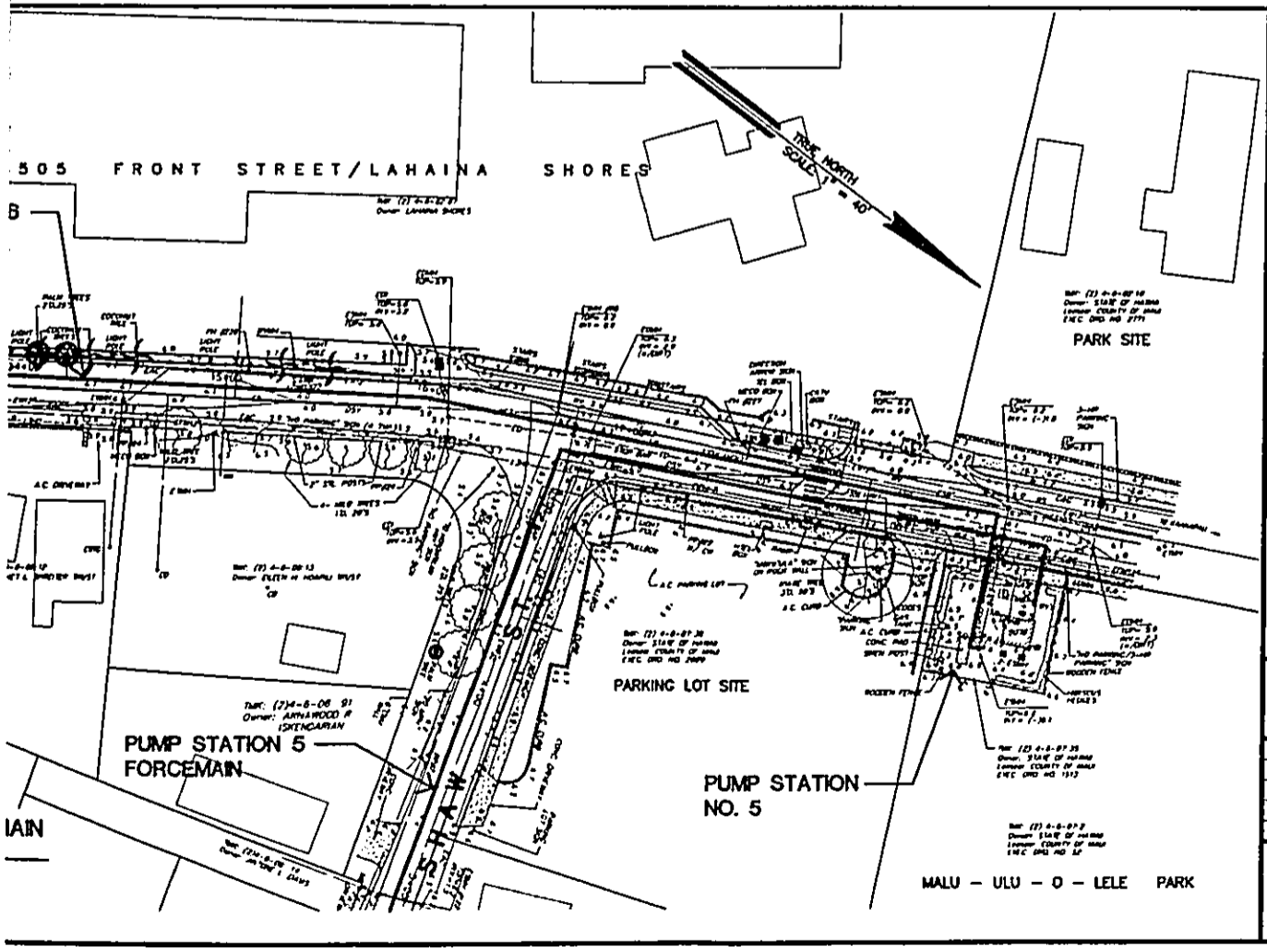




**RFE**  
**RONALD M. FUKUMOTO ENGINEERING, INC.**  
 Civil Engineering & Land Surveying Consultants  
 1721 Wai Pa Loco, Suite 203  
 Wailuku, Hawaii 96793  
 Phone: (808) 242-0611  
 Fax: (808) 244-7510  
 E-mail: rfe@mauigateway.com

Prepared for:  
  
 Wastewater Reclamation Div.  
 Dept. of Public Works and Waste Management  
 200 S. High Street  
 Wailuku, Hawaii 96793  
 Phone: (808) 270-7268

**LAHAINA 5 AND 6 WASTEWATER PUMP STATION FORCEMAIN REPLACEMENT**  
 JOB NO. 00-49  
 LAHAINA, MAUI, HAWAII  
 PLAN - PS 6 FORCEMAIN (STA. 0+00 TO 19+57.5)

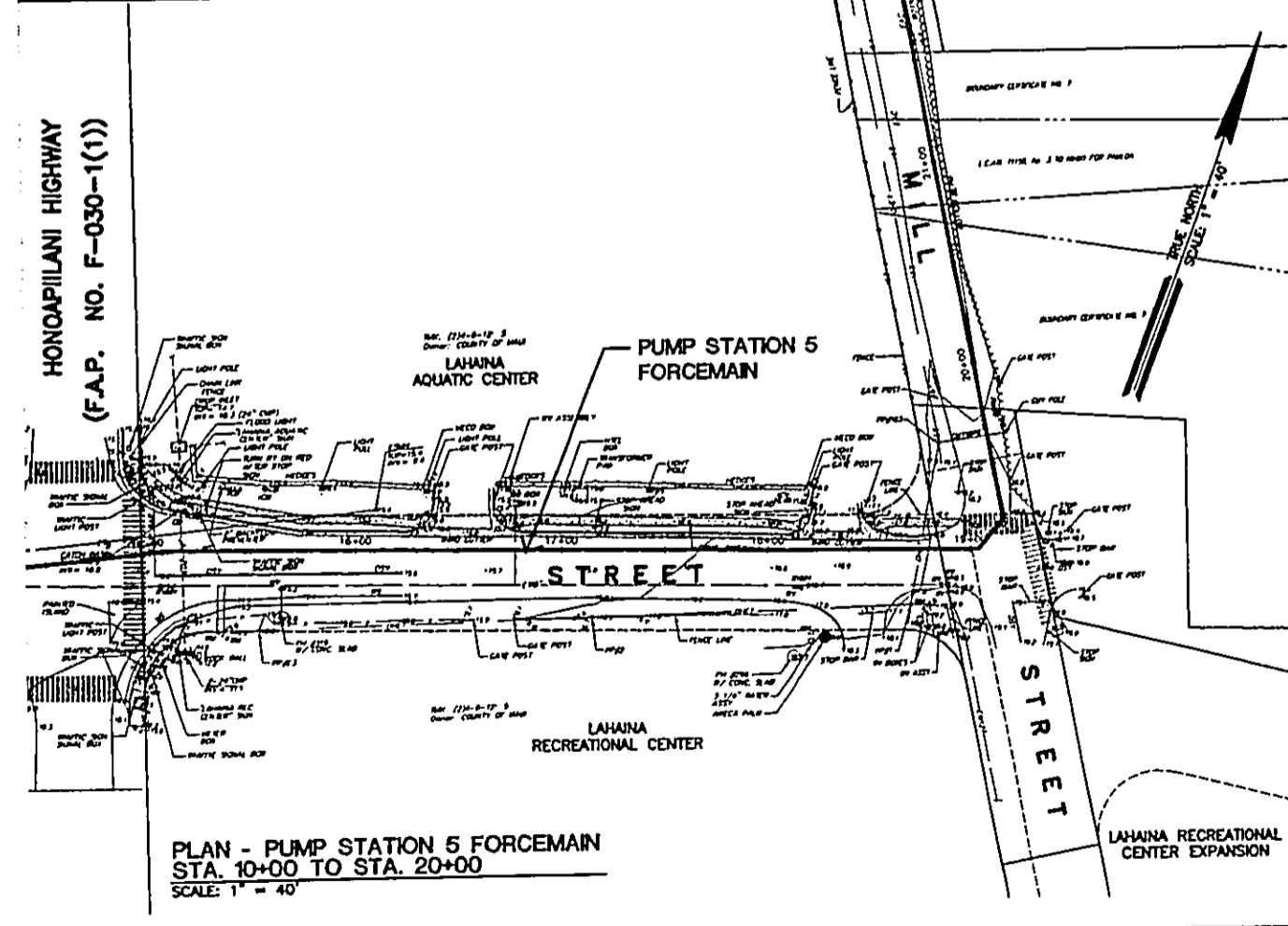
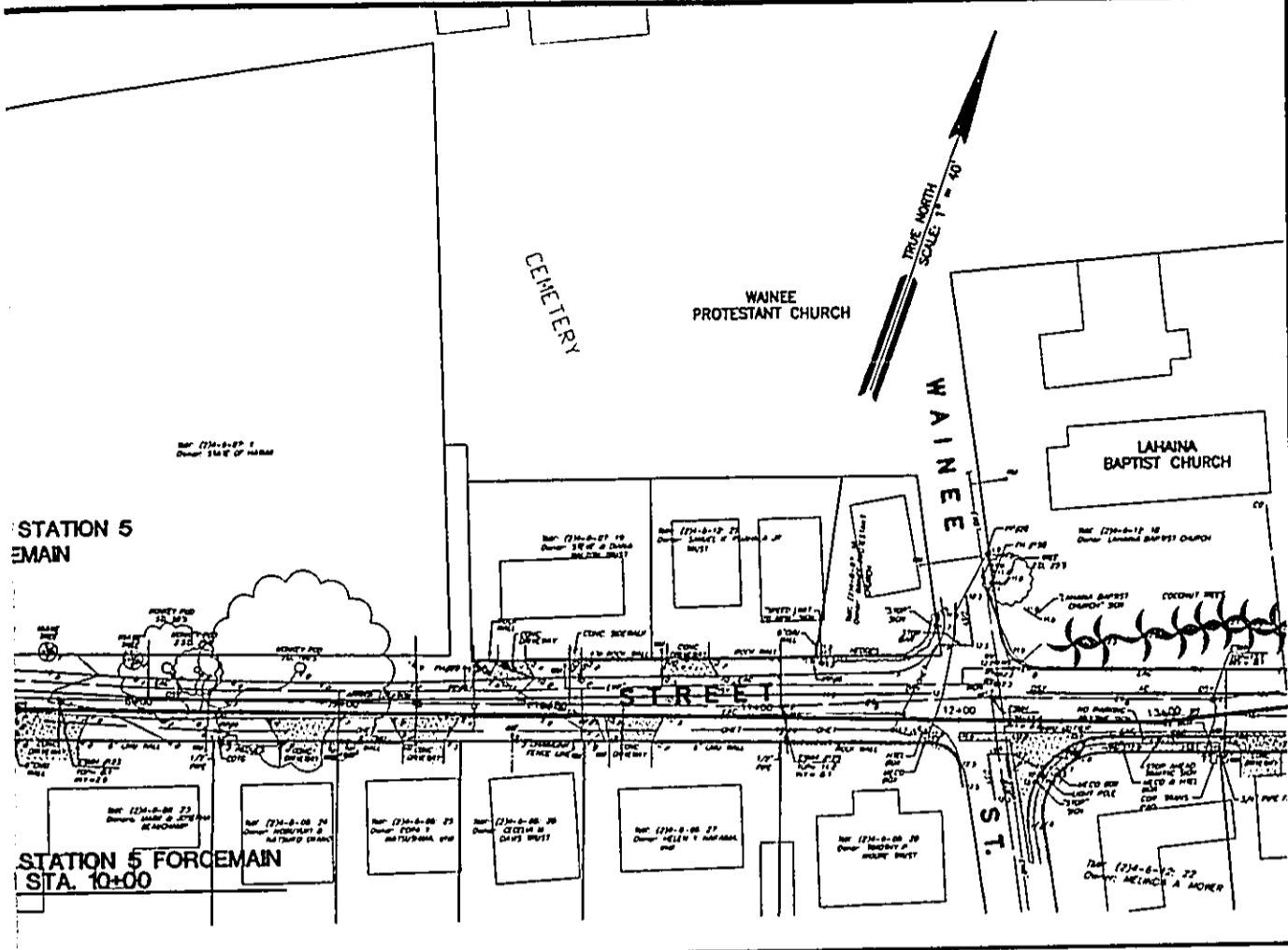


THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION, AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION AS DETAIL IN MAP 16-115-2.

DESIGNED BY: E.Y.  
 DRAWN BY: S.W.  
 CHECKED BY: E.Y.  
 DATE: APRIL 26, 2002  
 FILE NO: CCM21A

SHEET **C-2**  
 2 of 5





PLAN - PUMP STATION 5 FORCEMAIN  
STA. 10+00 TO STA. 20+00  
SCALE: 1" = 40'



**RONALD M. FUKUMOTO ENGINEERING, INC.**  
Civil Engineering & Land Surveying Consultants  
1721 Wai Pa Loop, Suite 203  
Waikuku, Hawaii 96793

Phone: (808) 242-8611  
Fax: (808) 244-7510  
E-mail: rfe@maui.gateway.com

Prepared for:



Wastewater Reclamation Div.  
Dept. of Public Works and Waste Management  
200 S. High Street  
Waikuku, Hawaii 96793  
Phone: (808) 270-7268

**LAHAINA 5 AND 6 WASTEWATER PUMP STATION FORCEMAIN REPLACEMENT**

JOB NO. 00-49  
LAHAINA, MAUI, HAWAII

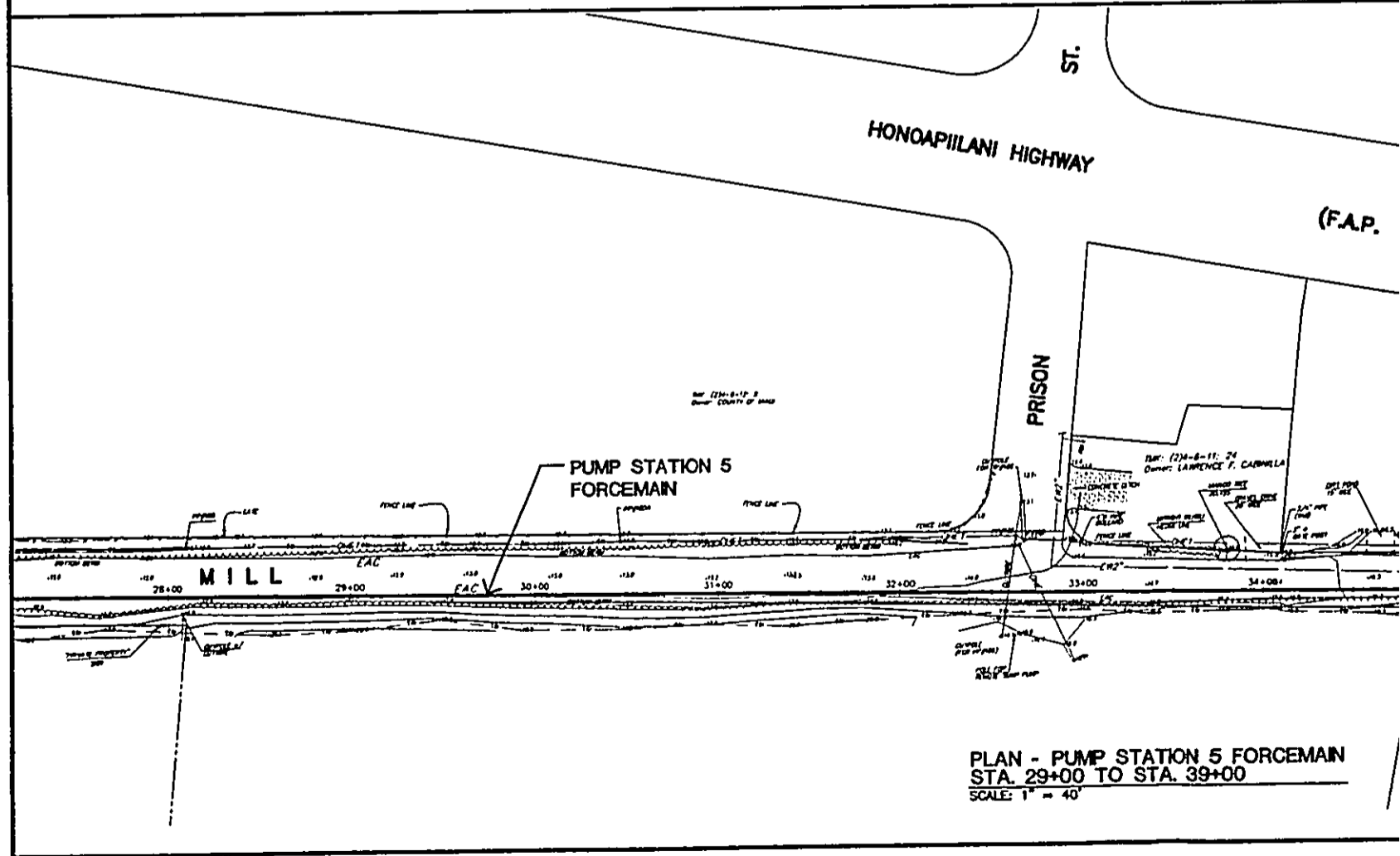
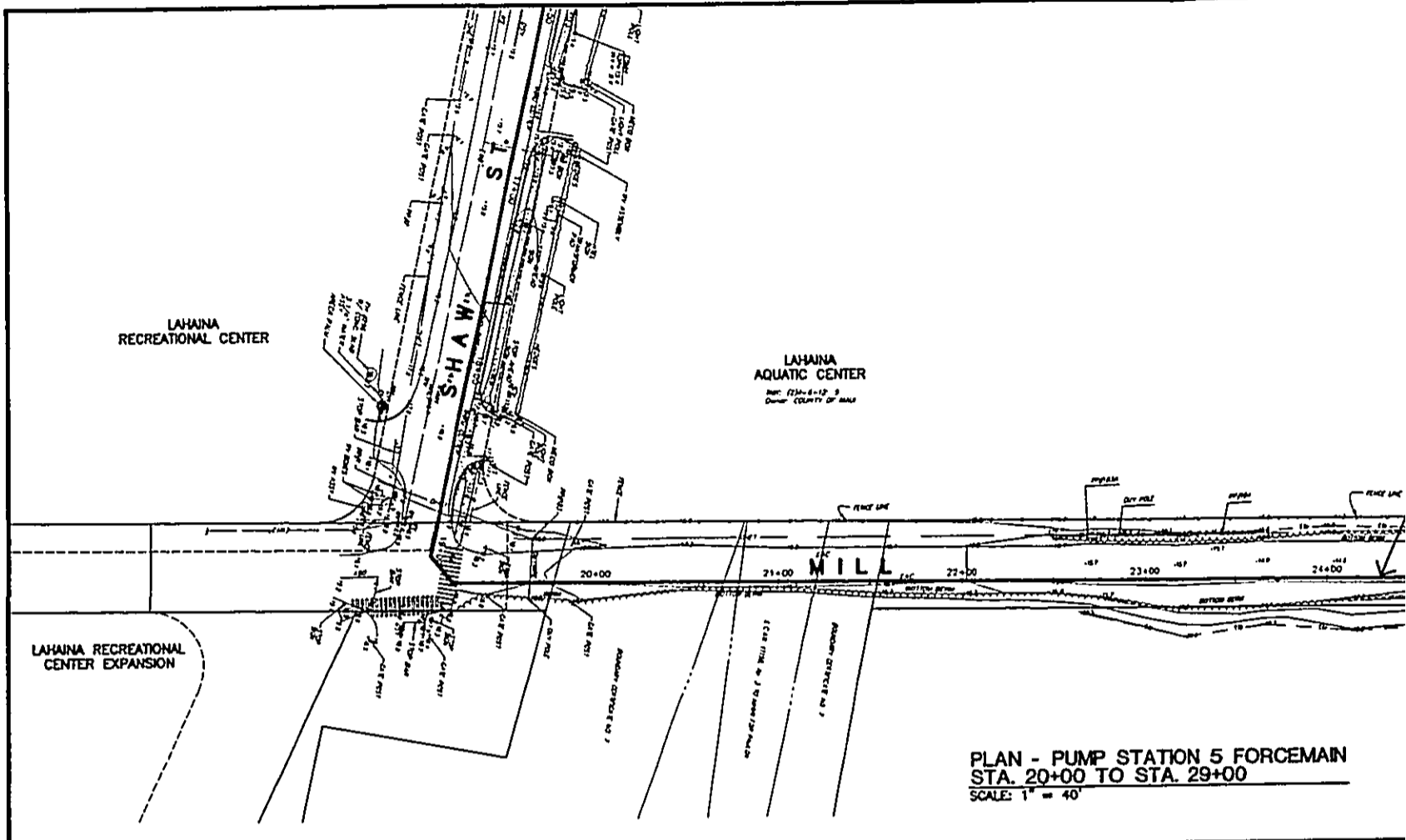
PLAN - PS 5 FORCEMAIN (STA. 0+00 TO 20+00)

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION AS OBTAINED IN MAP 18-115-2.

DESIGNED BY: E.Y.  
DRAWN BY: S.W.  
CHECKED BY: E.Y.  
DATE: APRIL 26, 2002  
FILE NO: COM21A

SHEET  
**C-3**  
3 of 5





HONOAPILANI HIGHWAY

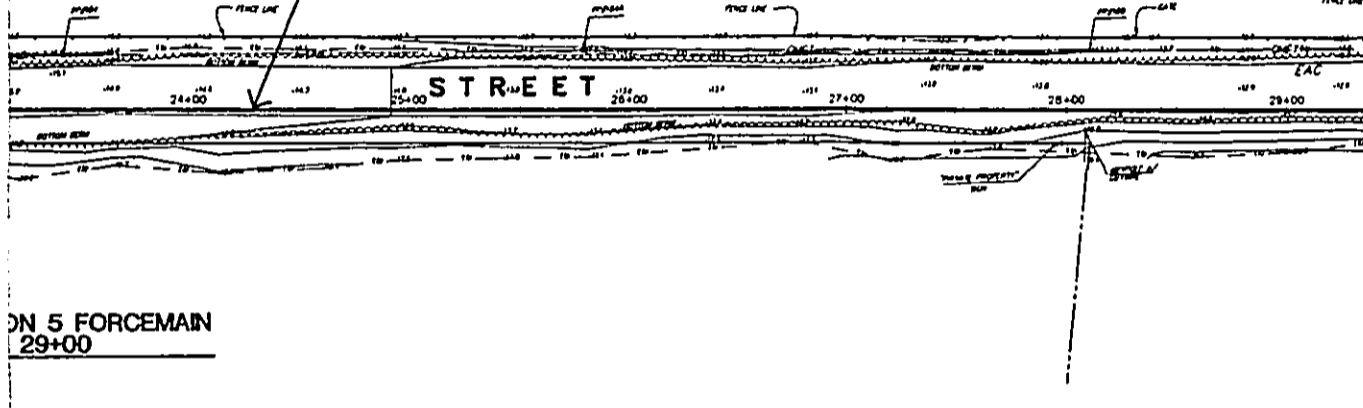


RONALD M. FUKUMOTO ENGINEERING, INC. CIVIL Engineering & Land Surveying Consultants 1721 Wil Pe Loop, Suite 203 Waikeala, Hawaii 96793  
Phone: (808) 242-8511 Fax: (808) 244-7510 E-mail: rfe@mauigateway.com

Prepared for: COUNTY OF MAUI  
Wastewater Reclamation Div. Dept. of Public Works and Waste Management 200 S. High Street Waikeala, Hawaii 96793 Phone: (808) 270-7268

T.M.C. (22)-6-12: 5  
Owner: COUNTY OF MAUI

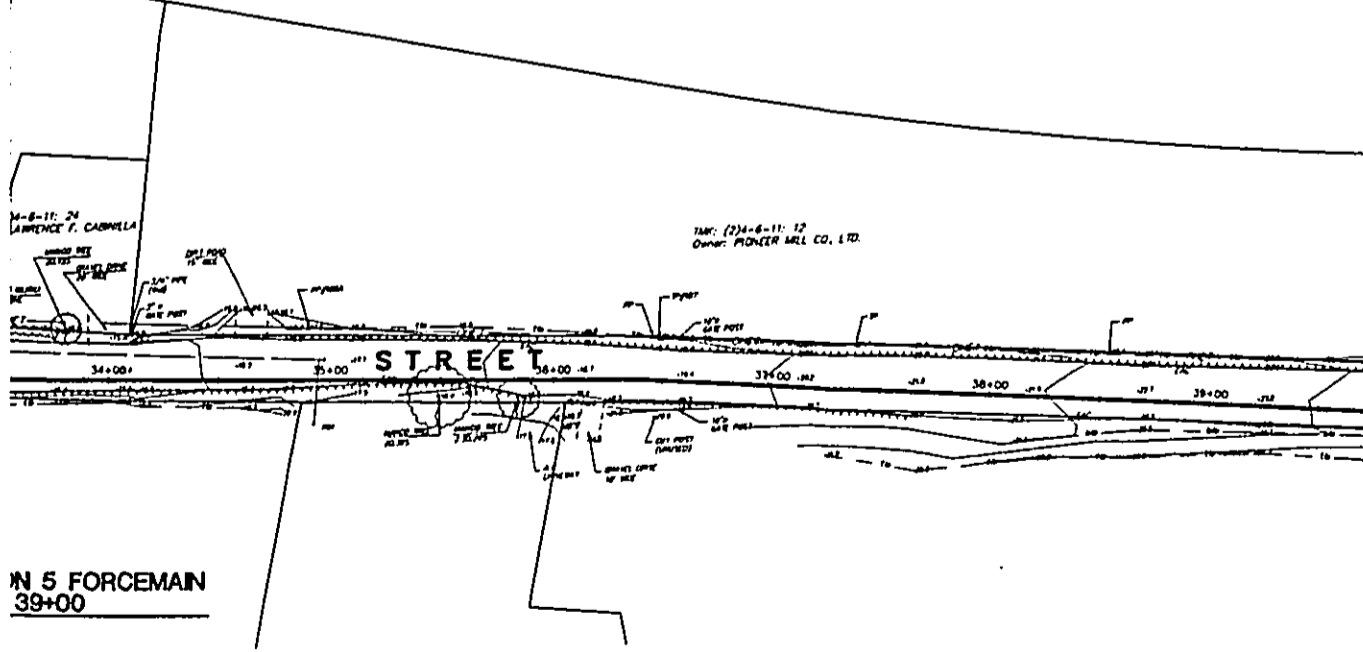
PUMP STATION 5 FORCEMAN



ON 5 FORCEMAN 29+00



(F.A.P. NO. F-030-1(1))



ON 5 FORCEMAN 39+00

LAHAINA 5 AND 6 WASTEWATER PUMP STATION FORCEMAN REPLACEMENT

JOB NO. 00-49  
LAHAINA, MAUI, HAWAII

PLAN - PS 5 FORCEMAN (STA. 20+00 TO 39+00)

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION AS DEFINED IN H.A.R. 18-115-2.

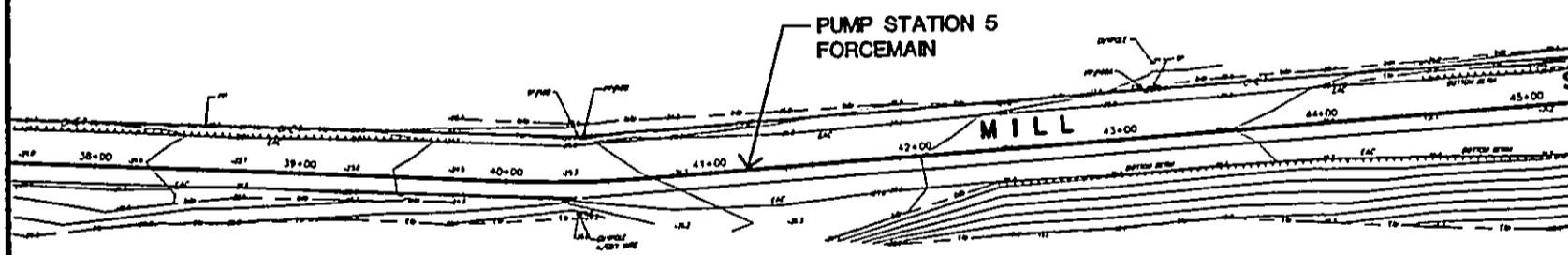
DESIGNED BY: E.Y.  
DRAWN BY: S.W.  
CHECKED BY: E.Y.  
DATE: APRIL 26, 2002  
FILE NO: COM21A

SHEET C-4  
4 of 5



(F.A.P. NO. F-030-1(1))

HONCAPHILANI HIGHWAY



PLAN - PUMP STATION 5 FORCE MAIN  
STA. 39+00 TO STA. 50+10  
N.T.S.



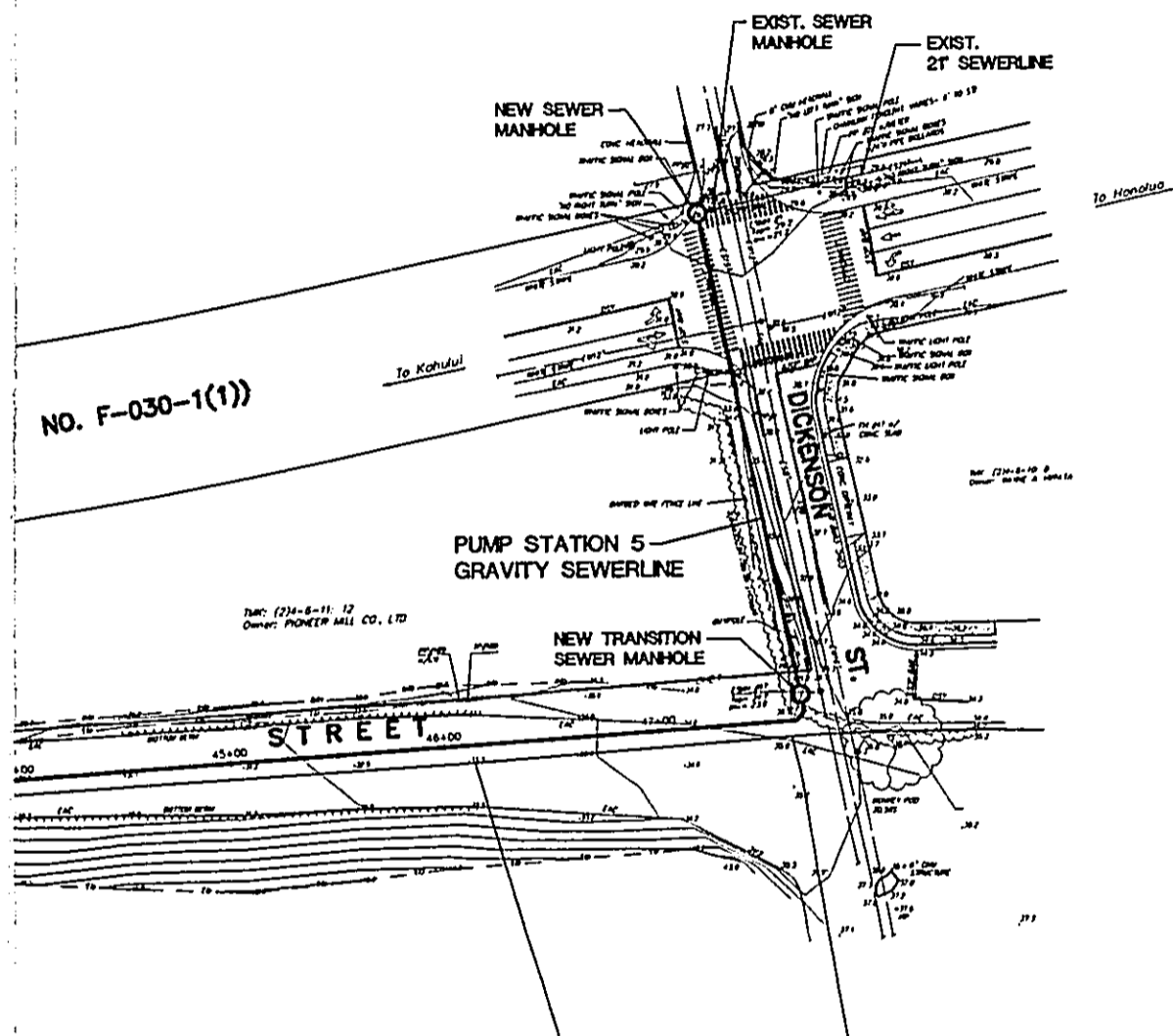
**RONALD M. FUKUMOTO ENGINEERING, INC.**  
 Civil Engineering & Land Surveying Consultants  
 1721 Wili Pa Loop, Suite 203  
 Waikeolu, Hawaii 96793

Phone: (808) 242-0611  
 Fax: (808) 244-7510  
 E-mail: rfo@mauigateway.com

Prepared for:



Wastewater Reclamation Div.  
 Dept. of Public Works and Waste Management  
 200 S. High Street  
 Waikeolu, Hawaii 96793  
 Phone: (808) 270-7268



NO. F-030-1(1))

To Kohala

To Honouliuli

PLAN: (214-8-11) 12  
 Owner: PIONEER HILL CO., LTD

STATION 5 FORCEMAN  
 STA. 50+10

**LAHAINA 5 AND 6 WASTEWATER PUMP  
 STATION FORCEMAIN REPLACEMENT**

JOB NO. 00-49  
 LAHAINA, MAUI, HAWAII

PLAN - PS 5 FORCEMAIN (STA 39+00 TO 50+10)

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION, AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION AS DEFINED IN HAW 18-113-2.

DESIGNED BY: E.Y.  
 DRAWN BY: S.W.  
 CHECKED BY: E.Y.  
 DATE: APRIL 28, 2002  
 FILE NO: COM21A

SHEET  
**C-5**  
 5 of 5