



STATE OF HAWAII
DEPARTMENT OF HEALTH
KA 'OIHANA OLAKINO
P. O. BOX 3378
HONOLULU, HI 96801-3378

In reply, please refer to:
File:

November 1, 2023

80-30 S106 ltr (initial) SHPD.docx

Alan S. Downer, PhD, Administrator
State of Hawai'i, Department of Land and Natural Resources
State Historic Preservation Division
601 Kamokila Boulevard, Rm. 555
Kapolei, HI 96707
Submitted via: SHPD HICRIS

Dear Dr. Downer:

Subject: National Historic Preservation Act (NHPA)
Request to Initiate Section 106 Consultation
Hale Halawai Wastewater Pump Station Force Main Replacement
Clean Water State Revolving Fund (CWSRF) Project No. C150080-30
Lanihau 1-2/Moeauoa Ahupua'a, Kona-Moku District, Island of Hawaii, Hawai'i
TMK: (3) 7-5-007:999 (Road Right-of-Way), (3) 7-5-008:010 and 999 (Road Right-of-Way) and (3) 7-5-022:175
State Historic Preservation Division (SHPD) Project No. 2023PR01051

On behalf of the Environmental Protection Agency (EPA), the State of Hawai'i Department of Health (DOH) requests to initiate Section 106 consultation with the State Historic Preservation Officer (SHPO) for the proposed Hale Halawai Wastewater Pump Station Force Main Replacement project located in Lanihau 1-2/Moeauoa Ahupua'a, Kona-Moku District, Island of Hawaii, Hawai'i.

The proposed project may be eligible to utilize federal funding that is administered by the DOH through the CWSRF and will be considered a federal action and undertaking, as defined by Section 106 of the NHPA of 1966 (as amended 2014), Title 54 of the United States Code (54 USC) Section 306108, and Title 36 of the Code of Federal Regulations (36 CFR) Part 800.

The EPA has authorized the DOH to act on behalf of the EPA regarding NHPA Section 106 notification and consultation. This letter is to request to initiate the Section 106 consultation process with the SHPO and State Historic Preservation Division (SHPD) in accordance with 36 CFR, Section 800.3.

The DOH may provide funding under the CWSRF to the County of Hawai'i, Department of Environmental Management for the Hale Halawai Wastewater Pump Station Force Main Replacement project.

Overview of Undertaking

The project will replace the existing Hale Halawai sewer force main located under Hualālai Road from Ali'i Road to Kuakini Highway, in Kailua-Kona, Hawai'i.

The existing 12-inch diameter, 900 foot long cast iron force main was originally constructed in 1971. Replacement is needed due to the age and condition of the force main. The cast iron pipe material has deteriorated from likely both internal corrosion from sewage flow as well as external corrosion from the environment the pipe is buried in. The consequences of failure for the Hale Halawai force main are substantial, considering the high indirect cost associated with damage to the environment and closure of the popular tourist destination of Kailua Bay.

The Hale Halawai force main connects to a discharge manhole at the intersection of Hualālai Road and Kuakini Highway. The connection to the existing force main discharge manhole does not conform to current design standards. The existing force main discharge opening is higher than the downstream crown. Ideally, the force main would discharge at the bottom of the manhole trough so that the pipe is always full. Having the force main full helps prevent air from entering it. Also, having the force main discharge invert above the sewer water level may lead to turbulent conditions in the manhole, which could cause the buildup of corrosive hydrogen sulfide gas.

The project will construct approximately 900 linear feet of new 12-inch diameter PVC pipe along Hualālai Road to serve as the new primary force main, replacing the existing line. The existing force main will be rehabilitated and serve as a back up to the proposed replacement. The new force main will be installed near the same depth as the existing line, approximately 4 to 7 feet below grade.

The planned work includes:

- Installation of a new force main line from the Hale Halawai Sewage Pump Station (SPS) to replace the 12-inch cast iron force main (the existing force main is intended to serve as a backup line).
- Flow bypass during the installation to the new force main.
- Connection of the new force main to the existing discharge piping inside the Hale Halawai SPS valve vault.
- Connection of the new force main to a discharge manhole at the Hualālai Road and Kuakini Highway intersection.
- Temporary work zone traffic control.
- Additional work may include:
 - Flow monitoring to design flow bypassing
 - Construction of a new sewer discharge manhole at the Hualālai Road – Kuakini Highway intersection
 - Rehabilitation of existing force main discharge manhole at the Hualālai Road – Kuakini Highway intersection
 - Replacement of valves, fittings, and piping in Hale Halawai SPS valve vault

See *Attachment A* for project location maps.

Area of Potential Effect (APE)

The proposed APE is located in roadway right-of-way along Hualālai Road, Ali'i Drive, and Kuakini Highway (TMKs (3) 7-5-007:999 and 7-5-008:999), a small portion of Hale Halawai Park

(TMK (3) 7-5-008:010), and a small portion of an open lawn area owned by the State of Hawai'i (TMK (3) 7-5-022:175). The APE is approximately 1.42 acres and includes all construction, access, and staging areas. All proposed trenching will be within roadway right-of-way. Existing properties and uses on the south side of Hualālai Road adjacent to the APE include administrative buildings for the State of Hawai'i Department of Education, the Kailua-Kona Public Library, a gas station, and public parking lot. Existing properties and uses on the north side of Hualālai Road adjacent to the APE include a small shopping center, public parking lot, medical offices, and a hotel - Uncle Billy's Kona Bay. A review of property records indicates that most of the current buildings on these properties were constructed in the 1990s. The hotel at the corner of Hualālai Road and Ali'i Drive (Uncle Billy's Kona Bay) was originally constructed in 1962 and has undergone several subsequent renovations. See *Attachment B* for TMK Map, APE, and Site Photos.

Cultural, Historical, and Archaeological Background

The project area is located on the western side of Hawai'i Island in the Kona District, on the coastal plane at the foot of Mount Hualālai. It is entirely within the urban area of Kailua-Kona. The project lies within the ahupua'a of Lanihau 1-2 and Moeauoa. In this part of Kona, the land divisions are narrow and some such as these converge when they reach the shoreline. Soil types in the project area are Waiaha-Punalu'u-Lava flows complex on 2 to 10 percent slopes and Kainaliu-Waiaha complex on 10 to 20 percent slopes.

Expansion of the pre-Contact population in Kona is believed to have occurred in the late 15th century under the leadership of 'Umi-a-Liloa (ancestor of Kamehameha I), a chief who transferred his court to Kona from Waipi'o. The people practiced diversified agriculture in what was later described as the Kona Field System (Newman 1970, in Ellison and Kennedy 2004). Land uses roughly corresponded to zones from mauka to makai. The project area lies within the makai area of the kula zone, where land uses would have included permanent residences, small gardens of sweet potato, coconut trees, and land-based activities supporting nearshore aquaculture and fishing (Ellison and Kennedy 2004). This settlement was initially known as Kaiakeakua. A long-established canoe landing and a cluster of hale, some of them homes of the royal family and court, were located at Kailua Bay, not far from the makai end of the project APE.

The proposed project site is located approximately 2,000 feet from the large Kailua Pier. Pa o 'Umi, a small point of land along the seawall in this area, is said to have been the location of the residence of 'Umi-a-Liloa.

The village of Kaiakeakua, later known as Kailua-Kona, was formally King Kamehameha I's seat of government prior to his unification of the Hawaiian Islands in 1795. He later returned and lived at Kamakahonu, on the western side of Kailua Bay, continuing to rule the Kingdom of Hawai'i from this seat from 1812 until his death in 1819. The rock for which Kamakahonu was named appears on early maps but is now covered by the Kailua Pier.

In 1820, the first Christian missionaries to land in Hawai'i stepped ashore at Kailua Bay, on a rock that was later covered over by Kailua Pier. These missionaries established the Moku'aikaua Church (SIHP No. 50-10-28-7231), the first Christian Church in Hawai'i. During the Māhele 'Āina beginning in 1846, the system of land ownership and use patterns across the Hawaiian Islands was altered under the direction of Kamehameha III. Land was divided into Crown Lands, Government Lands, and lands granted to the ali'i. By 1850,

commoners and foreigners were also permitted to own land. Royal Patent Grants (RPG) were issued in government land purchase transactions as proof of ownership. Many of the lands in Kailua-Kona were retained in government and royal family ownership. Several land grants were awarded later in the vicinity. The entire ahupua'a of Lanihau Nui, which covered the current project APE, was granted to William C. Lunalilo (King of Hawai'i 1873-1874). After his death, Ruth Ke'elikōlani, was granted the ahupua'a of Lanihau 1-2 and Moeauoa. This holding appears to have included the project area (RPG 7465, Helu 9971:41).

Hawaiian Government Survey Map from 1883 show the ruins of a former prison at the present-day location of Hale Halawai Park. Glennon and Brandt 2020 speculate that these ruins are more likely the remains of the old fortification described and sketched by Ellis in 1823. The 1883 map also show an unnamed road following a similar alignment to Hualālai Road leading to the former residence of Reverend Asa Thurston. Moku'aikaua Church (SIHP No. 50-10-28-7231), founded by Reverend Asa Thurston in 1920 is also shown on the maps, along with the first Roman Catholic Church on the island, Saint Michael the Archangel Church (SIHP No. 50-10-28-0732) constructed in 1850. See *Attachment C* – 1883 Hawaiian Government Survey Map.

In the 19th century, Kailua-Kona served as a favorite residence and retreat for members of the Hawaiian royal family. Despite its association with Hawaiian royalty, Kailua-Kona remained essentially a small village, with the population of the area focused on fishing and subsistence agriculture. By the turn of the century, Kailua Bay had a shipping wharf used by the ranching and sugar industries. Eventually, commercial agriculture and ranching began to surrender to urbanization as farmlands were converted into residential subdivisions and tourism and businesses became the area's primary economic driver in the late 20th century.

A 1928 map shows substantial changes by the turn of the twentieth century as Kailua-Kona became a more commercial center. The current alignment of Hualālai Road is shown as "New Road to Halualoa." A courthouse is shown at the current location of Hale Halawai Park. The American Protestant Mission is shown on the north side of Hualālai Road, and the Board of Education Kailua School is shown on the south side of the road. See *Attachment D* – 1928 Hawaiian Territory Survey Map.

The project area vicinity was thoroughly transformed by development for tourism in the 1970s and 1980s. All parcels along both sides of the road are fully developed. A review of property records indicates that most of the current buildings on these properties were constructed in the 1990s. The hotel at the corner of Hualālai Road and Ali'i Drive (Uncle Billy's Kona Bay) was originally constructed in 1962 and has undergone several subsequent renovations.

Summary of Archaeological Sites with APE

While very few archaeological surveys have occurred near the APE along the coast, several surveys have been in the North Kona District. Table 1 provides a summary of previous archaeological investigations in the vicinity of the APE.

Table 1. Archaeological and historical surveys in the project vicinity.

Name (Year)	Location	Study type	Sites identified and notes
Stokes (1906)	Lanikai and Keaholū coast.	General survey	Heiau and numerous other sites throughout the coastal region noted.
Reinicke (1930)	Lanikai and Keaholū coast.	Reconnaissance Survey	Heiau and numerous other sites throughout the coastal region noted.
Soehren (1979)	Lanikai – Former residence of Reverend Asa Thurston, about 1,000 feet outside the current project APE	Reconnaissance Investigation	Lava tube, massive stone wall, and a portion of the Great Wall of Lanikai previously reported were no longer present
Spear and Dunn (1998)	Lanikai and Moeauoa, about 2,000 feet	Inventory Survey	126 acres of the Kona Field System. 25 sites containing 156 features identified, including permanent and temporary habitation, agricultural use, burials, and historic boundary walls.
Elison and Kennedy (2004)	Kailua-Kona, TMK (3) 7-5-006:001, about 1,000 feet outside the current project APE.	AIS Report	Two sites, including a complex of mortared stone structures and a complex of boundary walls (SIHP 50-10-28-24184 and -24185), not within APE.

Summary of Archaeological Sites with APE

Our literature review resulted in the identification of six historic properties within approximately 1,000 feet of the APE. Two of these properties are listed on the National Register of Historic Places (NRHP). Several of these properties were previously determined eligible for listing on the Hawai'i or NRHP but are no longer extant. See *Attachment E* – for the approximate locations of the properties.

1. Moku'aikaua Church (SIHP No. 50-10-28-7231 / NRHP No. 78001015)
 Location: 75-5713 Ali'i Drive TMK: (3) 7-5-007:018

Moku'aikaua Church is the oldest Christian church in the Hawaiian Islands. The congregation was founded in 1820 by Reverend Asa Thurston and his wife Lucy, from the first ship of American Christian Missionaries to arrive in Hawai'i. The present day stone church was constructed from approximately 1835 to 1837 and may have included stones from a nearby Hawaiian heiau. The interior of the church is decorated with koa wood. The church was listed on both the Hawai'i and the NRHP in 1978.

Moku'aikaua Church is located approximately 800 feet from the Hale Halawai Force Main Replacement project area and will not be affected by the proposed undertaking.

2. Hulihe'e Palace (SIHP No. 50-10-28-7001 / NRHP No. 73000653)
Location: 75-5718 Ali'i Drive TMK: (3) 7-5-007:020

Hulihe'e was built in 1838 as the residence of Governor John Adams Kuakini and a favorite retreat for Hawai'i's royalty. It is one of only three royal palaces in the United States and the only one on Hawai'i Island (the other two are on O'ahu). The Palace was constructed using lava rock, coral, koa and 'ōhi'a timbers. Kuakini oversaw the construction of both Hulihe'e Palace and Moku'aikaua Church, which share a similar architectural style with exposed stone. Extensive remodeling by King Kalakaua and Queen Kapi'olani in 1884 transformed the original structure to suit the Victorian tastes of the late 19th century (with stucco and plaster, widened lanai). The Palace was listed on both the Hawai'i and the NRHP in 1978.

Hulihe'e Palace is located approximately 850 feet from the Hale Halawai Force Main Replacement project area and will not be affected by the proposed undertaking.

3. Saint Michael the Archangel Catholic Church (SIHP No. 50-10-28-0732)
Location: 75-5769 Ali'i Drive TMK: (3) 7-5-008:006

Built in 1850, Saint Michael the Archangel Catholic Church is the oldest Catholic mission on the Island of Hawai'i. The approximately 3.2-acre surrounding churchyard, contains several old buildings and walls that relate to the history of the site. The main church building stood for 159 years, but was demolished in 2009 due to earthquake damage, and replaced with a new church building. This site has been inventoried by the SHPD but is not listed on the Hawai'i or the NRHP.

The church grounds are located approximately 300 feet from the Hale Halawai Force Main Replacement project area and will not be affected by the proposed undertaking.

4. Thurston House Ruins (SIHP No. 50-10-28-7248)
Location: Hualālai Road TMK: (3) 7-5-010:013

Reverend Asa and Lucy Goodale Thurston were among the first American Christian Missionaries to arrive in Kailua-Kona on the *Thaddeus* in 1820. Asa Thurston and his wife were the founders of Moku'aikaua Church, the first Christian Church in the Hawaiian Islands. Their home, known as *Laniakea*, was located near Laniākea Cave. The original buildings on the property were thatched huts, followed in 1825 by a two-story wooden house. The structural remains of the Thurston House were designated as SIHP No. 50-10-28-7248. These ruins occupied a 5.2-acre parcel. These included a brick oven, brick-lined fireplace and chimney, stone walls, two large circular cisterns, and several sets of stairs. The ruins were one of the few remaining residences of a pioneer missionary family and were considered eligible for listing on the NRHP (HDOT 1975). Based on a field investigation by Lloyd Soehren in 1979 the site was bulldozed in the late 1970s and no evidence of the previously reported house ruins, stone walls, or lave tube remained (Soehren 1979).

The former Thurston House site is located approximately 1,000 feet from the Hale Halawai Force Main Replacement project area and will not be affected by the proposed undertaking.

5. Springer House (SIHP No. 50-10-37-7233)
Location: Hualālai Road TMK: Unknown

Constructed in 1895 this house has been documented and noted for its architectural merit with Victorian details including full length shutters, molded head accents, large porches, carved brackets, moldings, and ornamental balustrade. The house was previously described as in disrepair with only remnants of its once elaborate state gathered from the neglected ruins (HDOT 1975). A Hawai'i Department of Transportation Historic Properties Report from 1975 for the Kuakini Highway Realignment Project describes the house ruins as located off Hualālai Road. The exact location of the former house ruins is undetermined, however based on desktop review it is unlikely the house ruins still remain.

6. Unnamed Sites (SIHP No. 50-10-28-24184 and -24185)
Location 75-5684 Kuakini Highway TMK: (3) 7-5-006:001

These two sites include a complex of mortared stone structures and a complex of boundary walls. These sites are located approximately 1,000 feet from the Hale Halawai Force Main Replacement project area and will not be affected by the proposed undertaking.

Consultations

Section 106 consultation letters have also been sent to Native Hawaiian organizations, consulting parties, and/or interested persons that might attach significance to this area and have invited them to participate in the process. The mailing list is provided as *Attachment F*.

We welcome any comments that you may have on this project's proposed improvements.

We are particularly interested in any information you may have on the historic and cultural sites that have been recorded in the area. In addition, if you are acquainted with any persons or organizations that are knowledgeable about the proposed project area or any descendants with ancestral, lineal, or cultural ties to, cultural knowledge or concerns for, and/or cultural or religious attachment to the proposed project area, then we would appreciate receiving their names and contact information.

We would appreciate a written response within thirty (30) calendar days from receipt of this letter. Please address any written comments to email: Chane.Hayashida@doh.hawaii.gov or the following address:

Attn: Chane Hayashida
Department of Health, Wastewater Branch
2827 Waimano Home Road, Room 207
Pearl City, HI 96782

Alan S. Downer, PhD, Administrator
November 1, 2023
Page 8 of 8

Should you have any questions, please contact Chane Hayashida at (808) 586-4294.

Sincerely,

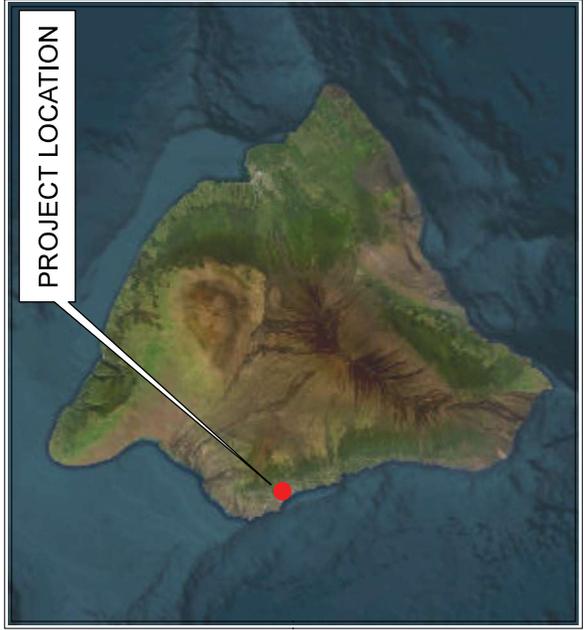


SINA PRUDER, P.E., CHIEF
Wastewater Branch

Attachments

c: Ramzi Mansour (via email at Ramzi.Mansour@hawaiicounty.gov)
Mark Grant (via email at MarkJ.Grant@hawaiicounty.gov)
Chris Sparber (via email at Chris.Sparber@hawaiicounty.gov)
Adrienne Fung (via email at adrienne.fung@aecom.com)
Courtney Hymes (via email at courtney.cacace@aecom.com)

Attachment A

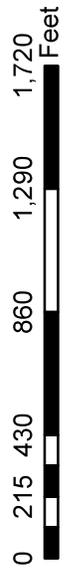


Legend

— Project Area

FIGURE 1 PROJECT LOCATION MAP

**HALE HALAWAI
FORCE MAIN REPLACEMENT PROJECT
KAILUA-KONA, HAWAII**



Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

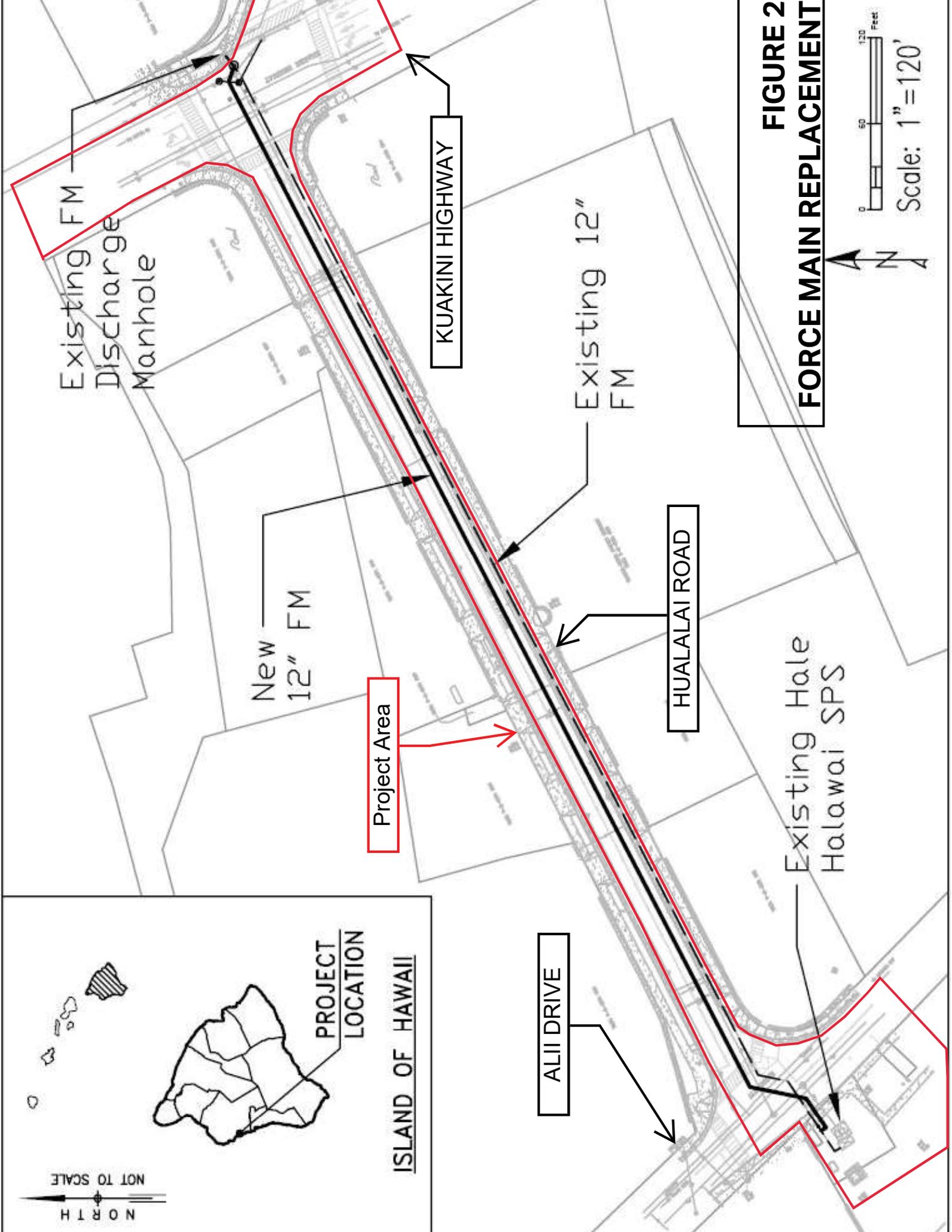
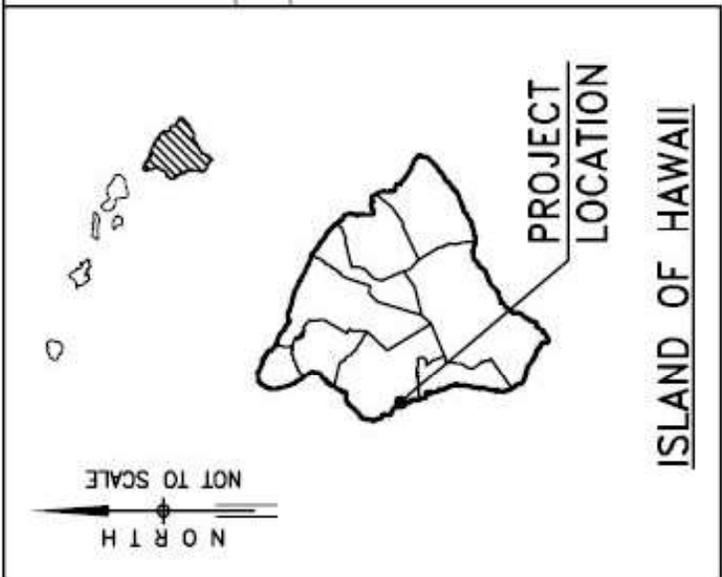
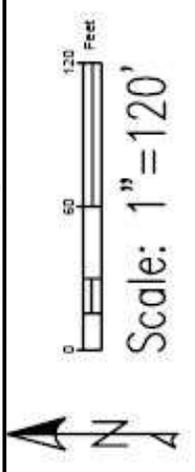


FIGURE 2
FORCE MAIN REPLACEMENT



Attachment B

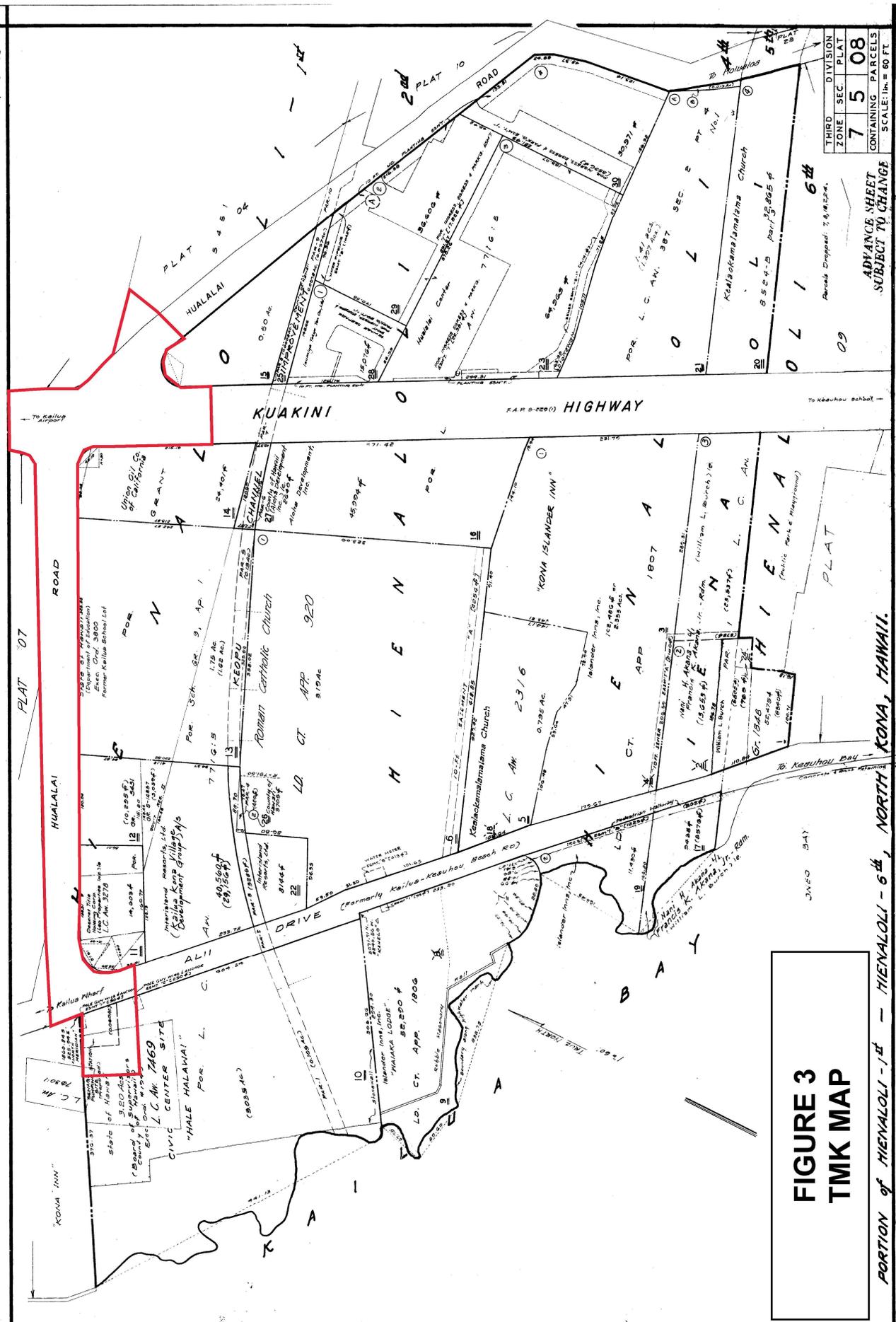


FIGURE 3
TMK MAP

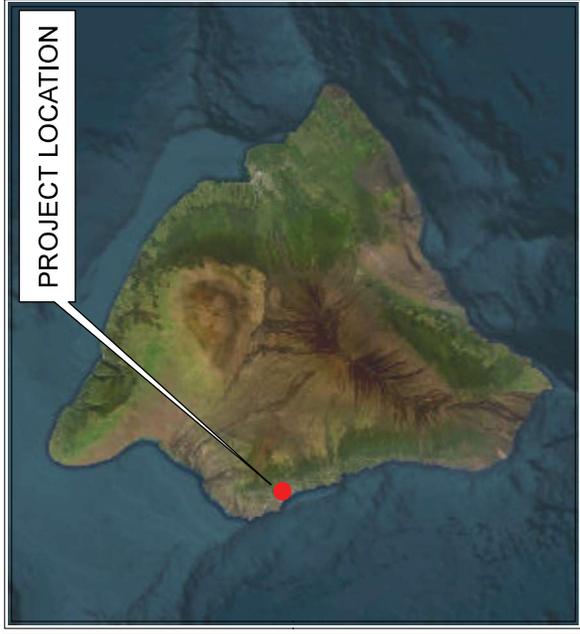
PORTION OF HIALEHALI - 1st - HIALEHALI - 6th, NORTH KONA, HAWAII.

THIRD ZONE	DIVISION	PLAT
7	5	08

ADVANCE SHEET
CONTAINING PARCELS
SCALE: 1 in. = 80 FT.

PRINTED

Dwg No.: 26777
Source: TKH & SLG - March, 1956
By: Rex Maps Bureau

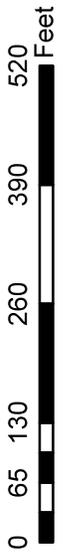


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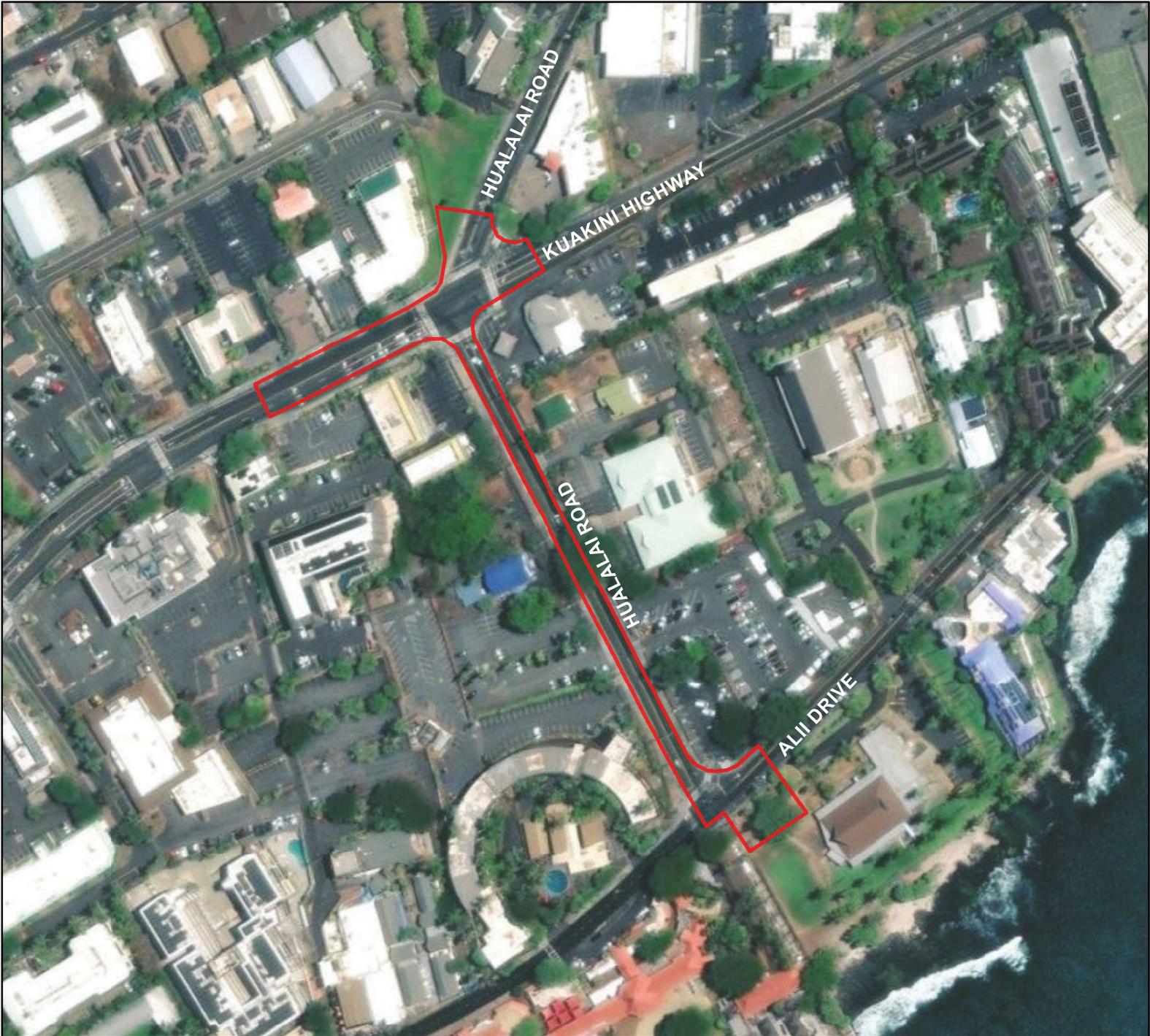
□ Area of Potential Effect

FIGURE 4 AREA OF POTENTIAL EFFECT (APE) BOUNDARY MAP

HALE HALAWAI
FORCE MAIN REPLACEMENT PROJECT
KAILUA-KONA, HAWAII



Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



Existing Condition Photographs
Hale Halawai Force Main Replacement Project
Kailua-Kona, Hawaii – April 12, 2022



Photo 1. Sewer pump station located on the makai side of the intersection at Alii Drive and Hualalai Road.



Photo 2. Alternate view of sewer pump station looking mauka, towards Hualalai Road.

Existing Condition Photographs
Hale Halawai Force Main Replacement Project
Kailua-Kona, Hawaii – April 12, 2022



Photo 3. Start of Hualalai Road looking mauka, sewer pump station behind.



Photo 4. View looking mauka a quarter of the way down on Hualalai Road, within project APE.

Existing Condition Photographs
Hale Halawai Force Main Replacement Project
Kailua-Kona, Hawaii – April 12, 2022



Photo 5. Middle of Hualalai Road fronting the Kailua-Kona Public Library, looking mauka.



Photo 6. View of Kailua-Kona Public Library from APE.

Existing Condition Photographs
Hale Halawai Force Main Replacement Project
Kailua-Kona, Hawaii – April 12, 2022



Photo 7. End of Hualalai Road, intersection at Kuakini Highway, within project APE.



Photo 8. Corner of Hualalai Road and Kuakini Highway intersection, within project APE.

Existing Condition Photographs
Hale Halawai Force Main Replacement Project
Kailua-Kona, Hawaii – April 12, 2022



Photo 9. Intersection of Hualalai Road and Kuakini Highway looking mauka.



Photo 10. End of project APE at the crosswalk on the right (marked by red arrow), looking towards Hualalai Road at Kuakini Highway.

Attachment C

HAWAIIAN GOVERNMENT SURVEY
 W. D. ALEXANDER, SURVEYOR GENERAL
KAILUA BAY
HAWAII

729, 1325
 Dr. #

SURVEYED AND DRAWN BY GEORGE E. GRESLEY JACKSON
 NAVY LIEUTENANT
 JUNE 1883

HD at E.C. 3. 30 PM. Rise and Fall 2 1/2 to 2 3/4 feet. Soundings in fathoms at L.W.
 NORTH MERIDIAN (L.A. 2° 16' 34" 32" N (Cassini)
 L.P. 43° 156' 0" 25" N (Trafalgar)
 SCALE 500 FEET = 1 INCH

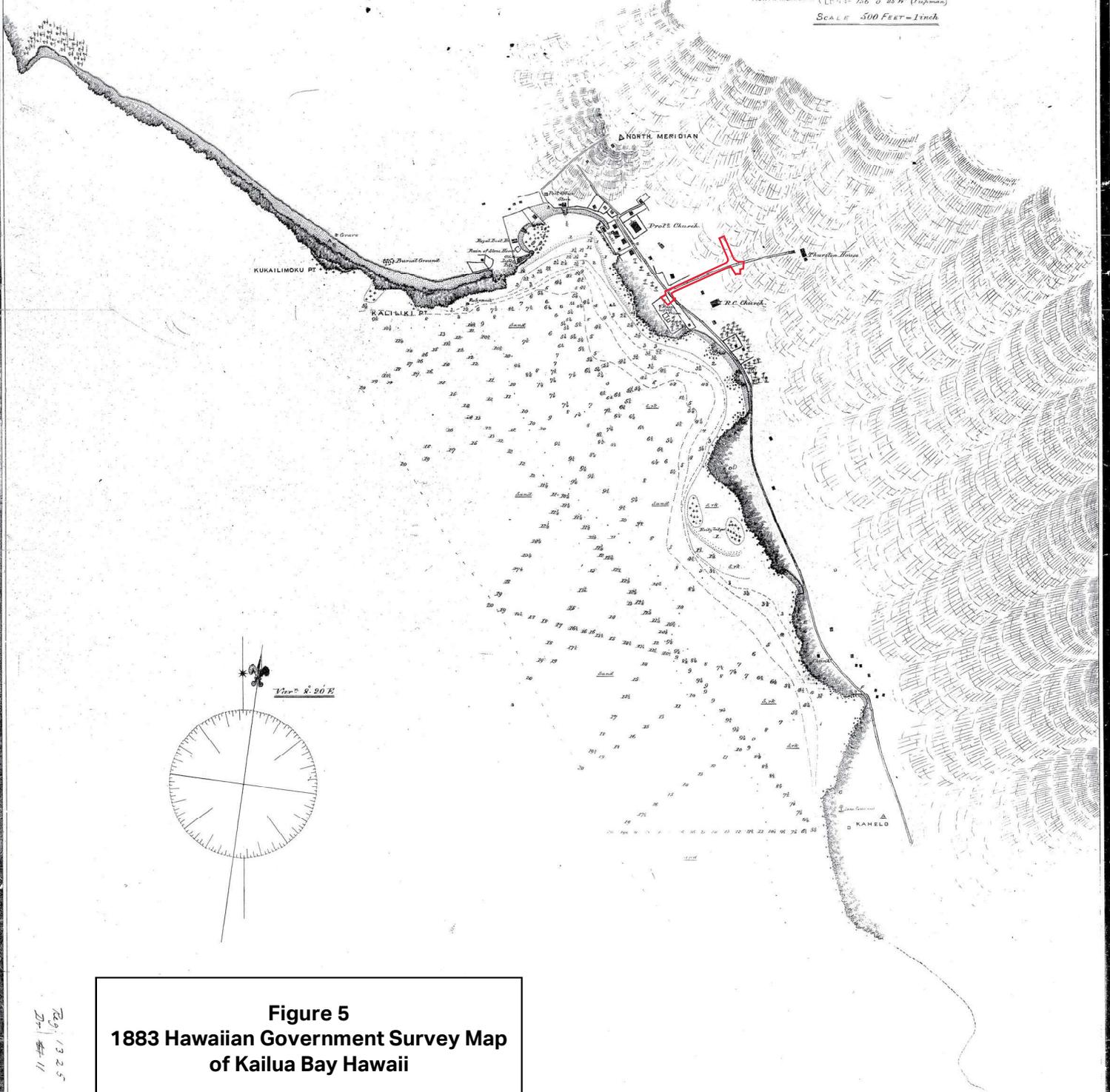
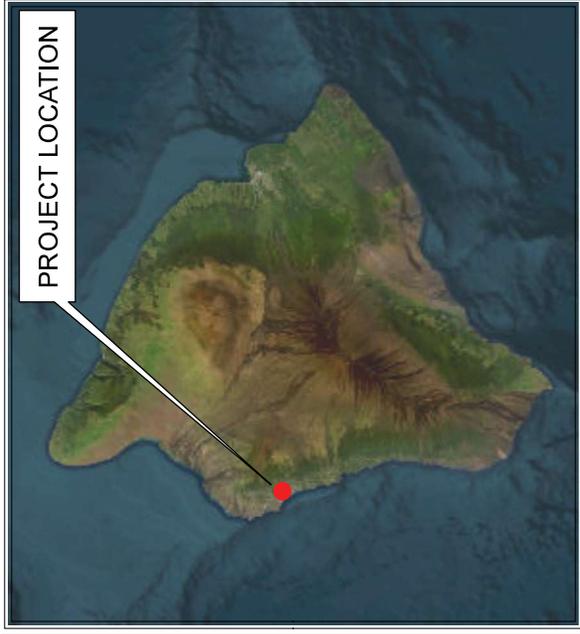


Figure 5
1883 Hawaiian Government Survey Map
of Kailua Bay Hawaii

729, 1325
 Dr. # 11

Attachment D

Attachment E



Legend

-  Historic Properties
-  Area of Potential Effect

FIGURE 7
HISTORIC PROPERTIES MAP
HALE HALAWAI
FORCE MAIN REPLACEMENT PROJECT
KAILUA-KONA, HAWAII



Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



Attachment F

**HALE HALAWAI FORCE MAIN REPLACEMENT PROJECT Native
Hawaiian Organization / Interested Parties Distribution List**

1. Colin Kippen, Interim Chief Executive Officer
Office of Hawaiian Affairs
560 N. Nimitz Hwy, Suite 200
Honolulu, HI 96817
E-mail Address: colink@oha.org
2. Charles Young, Committee Member
Pi'ilani Ka'awaloa, Moku Representative
Jerome Marks, Consultant
Aha Moku – Moku O Keawe
P.O. Box 5146
Pahoa, HI 96778
E-mail Address: Youngc42@hawaii.rr.com
punatita7@yahoo.com
808black@gmail.com
3. Kiersten Faulkner, Executive Director
Historic Hawai'i Foundation
680 Iwilei Road, Suite 690
Honolulu, HI 96817
E-mail Address: Kiersten@historichawaii.org
4. Kona Historical Society
P.O. Box 398
Captain Cook, HI 96704
E-mail Address: khs@konahistorical.org
5. Billy Shott, Regional Director
National Parks Service, National Historic Landmarks Program
333 Bush Street, Suite 500
San Francisco, CA 94104-2828
6. Dre Kalili, President
Association of Hawaiian Civic Clubs
P.O. Box 1135
Honolulu, HI 96807
E-mail Address: ahcc.nuhou@gmail.com
7. Daughters of Hawai'i
Hulihe'e Palace
75-5718 Ali'i Dr.
Kailua-Kona, HI 96740
8. Mr. Ikaika Nakahashi, Cultural Historian
101 Mā'alaea Boat Harbor Road
Wailuku, Hawai'i 96793
E-mail Address: chris.nakahashi@hawaii.gov
9. Ms. Nicole Lui, Cultural Monitor
76-6217 Lehua Road
Kailua-Kona, Hawai'i 96740
E-mail Address: Keakaonaalii54@gmail.com

References

References

Elison, Mina and Joseph Kennedy

2004 *An Archaeological Inventory Survey Report for a Property Located at TMK: 7-5-06:01 in Keopu Ahupua'a in Kailua-Kona, North Kona District, Island of Hawai'i.* Archaeological Consultants of the Pacific, Inc. Haleiwa, Hawai'i

Glennon, Genevieve and Lokelani Brandt

2020 *A Cultural Impact Assessment for the Exploratory Phase of the Department of Water Supply Honua'ula Mid-level Well TMK (3) 7-5-003:001 (por.) Honua'ula Ahupua'a North Kona District Island of Hawai'i.* ASM Affiliates, Honolulu, Hawai'i

Hawai'i Department of Transportation

1975 *Historic Properties Report Kuakini Highway Realignment Project No. RF-011-2(14) Kona, Hawai'i.* Hawai'i Department of Transportation

Historic Hawai'i Foundation

2023 Hawai'i County Historic Properties. Accessed online at <https://historichawaii.org/historic-properties/hawaii-county/>

Office of Hawaiian Affairs

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2023 Papakilo Database. Accessed online at <https://www.papakilodatabase.com>

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