

RICHARD T. BISSEN, JR.
Mayor

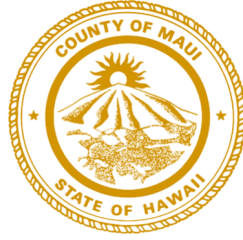
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COUNTY OF MAUI
DEPARTMENT OF
ENVIRONMENTAL MANAGEMENT
2145 KAOHU STREET, SUITE 102
WAILUKU, MAUI, HAWAII 96793

May 15, 2026

Mary Alice Evans, Director
State of Hawaii
Office of Planning and Sustainable Development
Environmental Review Program
235 South Beretania Street, Suite 702
Honolulu, Hawaii 96803

SUBJECT: LAHAINA FORCE MAIN NO. 3 REPLACEMENT

Dear Ms. Evans:

With this letter, the County of Maui, Department of Environmental Management (DEM) hereby transmits the draft environmental assessment and anticipated finding of no significant impact (DEA-AFONSI) for the Lahaina Force Main No. 3 Replacement situated at (2)4-5-014:077, (2)4-5-021:007, (2)4-5-021:025, (2)4-5-030:015, (2)4-5-030:137, and (2)4-5-030:138, in Lahaina District on the island of Maui for publication in the next available edition of the Environmental Notice.

Transmitted herewith is the completed OEQC publication form, an Adobe Acrobat PDF file of the DEA-AFONSI, and a zip file containing the shapefile of the project's location.

If there are any questions, please contact DEM's consultant, Mr. Clifton Miyasaki, P.E., of Fukunaga and Associates at (808) 944-1821 or the County Project Manager, Mr. Juan A. Rivera, P.E., at (808)270-7268.

Sincerely,

A handwritten signature in black ink that reads "Michael D. Petersen".

Digitally signed by Michael D. Petersen
(Deputy Director) for Shayne R. Agawa
Date: 2026.05.18 08:48:25 -10'00'

for **Shayne R. Agawa, P.E., Director**
Director of Environmental Management

cc: **Juan, Rivera, P.E. Department of Environmental Management**
Clifton Miyasaki, Fukunaga and Associates

From: dbedt.opsd.erp@hawaii.gov
To: [DBEDT OPSD Environmental Review Program](#)
Subject: New online submission for The Environmental Notice
Date: Wednesday, May 27, 2026 1:01:38 PM

Action Name

Lahaina Force Main No. 3 Replacement

Type of Document/Determination

Draft environmental assessment and anticipated finding of no significant impact (DEA-AFNSI)

HRS §343-5(a) Trigger(s)

- (1) Propose the use of state or county lands or the use of state or county funds
- (3) Propose any use within a shoreline area

Judicial district

Lahaina, Maui

Tax Map Key(s) (TMK(s))

(2) 4-5-014:077;(2) 4-5-021:007;(2) 4-5-021:025;(2) 4-5-030:015;(2) 4-5-030:137;(2) 4-5-030:138

Action type

Agency

Other required permits and approvals

Multiple, see Section 9 for Permits and Approvals

Proposing/determining agency

County of Maui, Department of Environmental Management

Agency jurisdiction

County of Maui

Agency contact name

Juan Rivera

Agency contact email (for info about the action)

Juan.Rivera@co.maui.hi.us

Email address for receiving comments

cmiyasaki@fukunagaengineers.com

Agency contact phone

(808) 270-7268

Agency address

2145 Kaohu Street
Suite 102
Wailuku, HI 96793
United States

[Map It](#)

Is there a consultant for this action?

Yes

Consultant

Fukunaga and Associates, Inc.

Consultant contact name

Clifton Miyasaki

Consultant contact email

cmiyasaki@fukunagaengineers.com

Consultant contact phone

(808) 944-1821

Consultant address

1357 Kapiolani Blvd.
Ste. 1530
Honolulu, HI 96814
United States
[Map It](#)

Action summary

The County of Maui (COM), Department of Environmental Management, Wastewater Reclamation Division (DEM-WWRD) is proposing the construction of the Lahaina Force Main No. 3 Replacement. The proposed project will include replacement of the existing 20-inch sewer force main (FM) from the Lahaina Wastewater Pump Station (WWPS) No. 3 to the existing valve vault near the location of the old Lahaina WWPS No. 3. The existing FM will be capped and remain as an emergency backup or abandoned in place. The new 20-inch FM will be approximately 2,200 linear feet (lf) long and will extend from the Lahaina WWPS No. 3 to the existing valve vault, using the same start and end points as the existing FM but on a new alignment. The new alignment will generally be along Wahikuli Terrace Park Access Road and Malo Street before crossing Honoapiilani Highway and terminating at the existing valve vault.

Reasons supporting determination

See Section 7 Determination of the Draft EA.

Attached documents (signed agency letter & EA/EIS)

- [Lahaina-Force-Main-No.-3-Replacement-DRAFT-EA_accessible1.pdf](#)
- [Lahaina-Force-Main-No.-3-Replacement-signed-agency-letter_accessible.pdf](#)

Action location map

- [Lahaina_Force_Main_No_3_Shapefile2.zip](#)

Compliance certification (HRS §368-1.5):

The authorized individual listed below certifies that documents submitted are unlocked, searchable, and compliant with the Hawaii Electronic Information Technology Disability Access Standards (including, but not limited to transcripts, captions, and other descriptions accompanying audio/video files). The individual acknowledges that the submitter retains the responsibility for compliance after documents have been published and any compliance queries will be directed back to the agency and/or applicant.

Authorized individual

Clifton Miyasaki

Authorized individual email

cmiyasaki@fukunagaengineers.com

Authorized individual phone

(808) 944-1821

Authorization

- The above named authorized individual hereby certifies that he/she has the authority to make this submission.

Lahaina Force Main No. 3 Replacement
Draft
Environmental Assessment



Prepared for:
County of Maui
Department of Environmental Management
Wastewater Reclamation Division

Prepared by:
Fukunaga and Associates, Inc.
1357 Kapiolani Blvd, Suite 1530
Honolulu, HI 96814

May 2026

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APPENDIX A:

- Early Consultation Correspondence

LIST OF ABBREVIATIONS

AFONSI	Anticipated Finding of No Significant Impact
ALISH	Agricultural Lands of Importance to the State of Hawaii
BMP	Best Management Practices
CIP	Capital Improvement Plan
COM	County of Maui
CWRM	Commission on Water Resource Management
CZM	Coastal Zone Management
CZO	Comprehensive Zoning Ordinance
DBEDT	Department of Business and Economic Development & Tourism
DCAB	Disability and Communication Access Board
DEM WWRD	Department of Environmental Management Wastewater Reclamation Division
DOA	Department of Agriculture
DOH	Department of Health
DLNR	Department of Land and Natural Resources
FEMA	Federal Emergency Management Agency
FIRM	Flood Insurance Rate Map
FM	Force Main
HAR	Hawaii Administrative Rules
HRS	Hawaii Revised Statutes
IPaC	Information for Planning and Consultation
LSB	Land Study Bureau
MIP	Maui Island Plan
MSL	Mean Sea Level
NGPC	Notice of General Permit Coverage
NHD	National Hydrography Dataset
NOAA	National Oceanic and Atmospheric Administration
NPDES	National Pollution Discharge Elimination System
NPS	National Park Service
NRCS	Natural Resources Conservation Service
PIFWO	Pacific Islands Fish and Wildlife Office
PVC	Polyvinyl Chloride
ROW	Right-of-Way
SCS	Soil Conservation Service

SIHP	State Inventory of Historic Places
SLR-XA	Sea Level Rise Exposure Area
SMA	Special Management Area
SHPD	State Historic Preservation Division
TMK	Tax Map Key
UIC	Underground Injection Control
USDA	United States Department of Agriculture
USFWS	United States Fish & Wildlife Service
USGS	U.S. Geological Survey
WWPS	Wastewater Pump Station

EXECUTIVE SUMMARY

Project Name: Lahaina Force Main No. 3 Replacement

Proposing/Determining Agency: County of Maui
Department of Environmental Management
Wastewater Reclamation Division
2200 Main Street, Suite 610
Wailuku, Maui, Hawaii 96792-2155

Consultant: Fukunaga and Associates, Inc.
1357 Kapiolani Boulevard, Suite 1530
Honolulu, Hawaii 96814

Location: Lahaina, Maui, Oahu

Property Owner and Land Use:

Tax Map Key	Current Property Owner	State Land Use District	Community Plan Land Use	County Zoning
(2)4-5-014:077	State of Hawaii	Urban	Residential	R-3 Residential
(2)4-5-021:007	County of Maui	Urban	Park	R-3 Residential
(2)4-5-021:025	County of Maui	Urban	Park	R-3 Residential
(2)4-5-030:015	County of Maui	Urban	Park	R-2 Residential
(2)4-5-030:137	County of Maui	Urban	Residential	R-2 Residential
(2)4-5-030:138	State of Hawaii	Urban	Residential	R-2 Residential

Environmental Assessment “Trigger”: Use of State or County lands or use of State or County funds
Use within a shoreline area

Anticipated Determination: Anticipated Finding of No Significant Impact (AFONSI)

1 PROJECT OVERVIEW

1.1 Proposed Action

The County of Maui (COM), Department of Environmental Management, Wastewater Reclamation Division (DEM-WWRD) is proposing the construction of the Lahaina Force Main No. 3 Replacement. The proposed project will include replacement of the existing 20-inch sewer force main (FM) from the Lahaina Wastewater Pump Station (WWPS) No. 3 to the existing valve vault near parcel 4-5-021:025 which is the location of the old Lahaina WWPS No. 3. The existing FM will be capped and remain as an emergency backup or abandoned in place. The new 20-inch FM will be approximately 2,200 linear feet (lf) long and will extend from the Lahaina WWPS No. 3 to the existing valve vault near parcel 4-5-021:025, using the same start and end points as the existing FM but on a new alignment. The new alignment will generally be along Wahikuli Terrace Park Access Road and Malo Street before crossing Honoapiilani Highway and terminating at the existing valve vault. The affected parcels include TMK's 4-5-014:077, 4-5-021:007, 4-5-021:025, 4-5-030:015, 4-5-030:137, and 4-5-030:138. These parcels are owned by the State of Hawaii and COM. Additionally, work will occur within roadway right-of-way (ROW) of the County of Maui and State of Hawaii owned roads. **Figure 1** shows the alignment of the proposed 20-inch FM.

1.2 Purpose of the Proposed Action

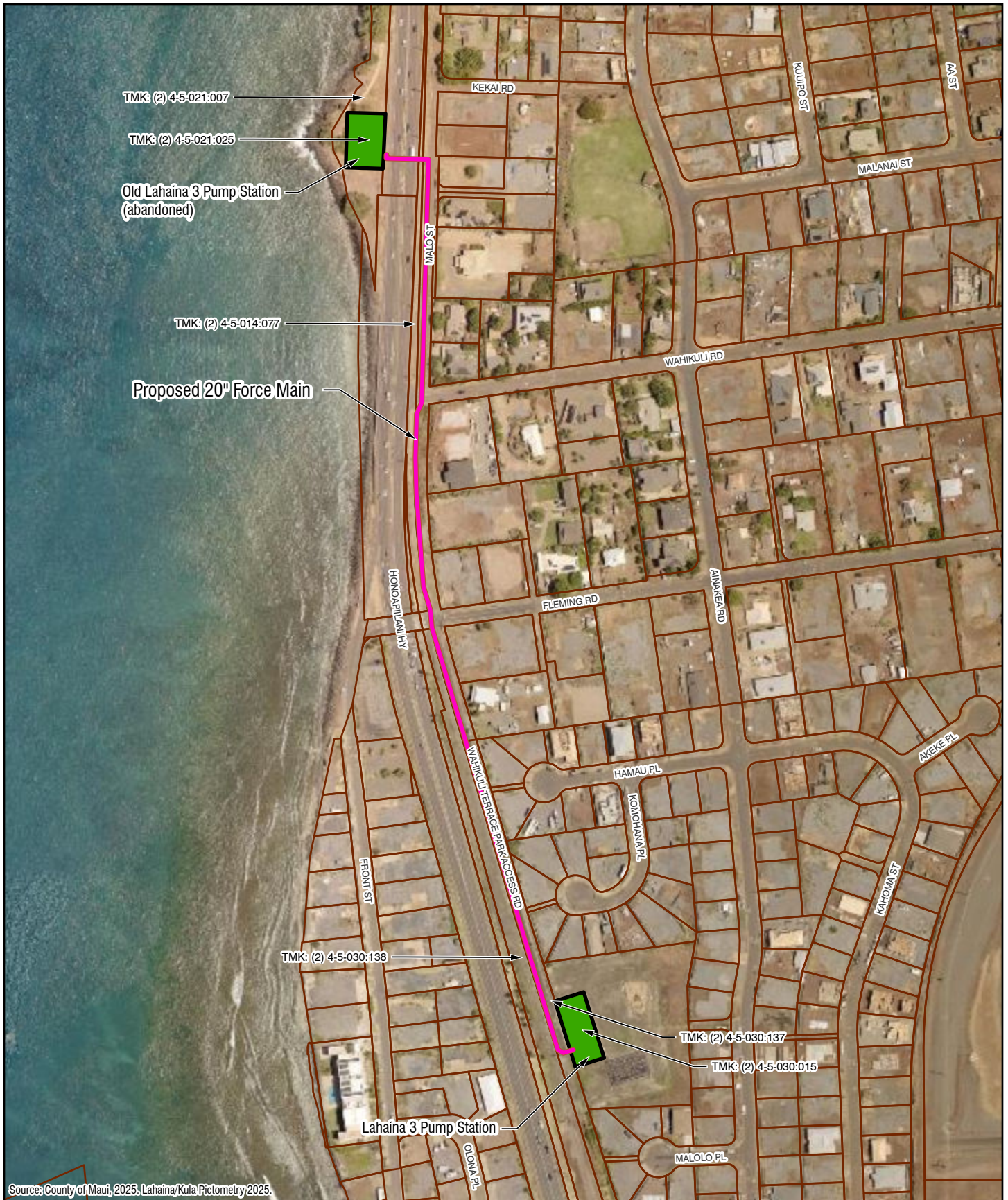
The proposed FM project is consistent with DEM-WWRD's mission to achieve protection of the public health and environment through optimum performance of its facilities.

The existing Lahaina FM No. 3 is part of the wastewater collection system that transports wastewater to the Lahaina Wastewater Reclamation Facility for treatment, reuse, and/or disposal. The service area of the FM extends from Puamana, to the south, to the Lahaina Civic Center, to the north. The existing FM was built in 1997 and is nearing the end of its useful life. The new FM will improve the reliability and therefore performance of the system.

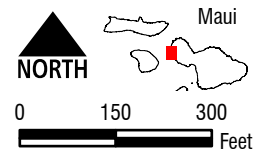
The existing FM is generally located within Honoapiilani Highway which is a State of Hawaii, Department of Transportation ROW. The proposed FM will be in a parallel alignment generally along Wahikuli Terrace Park Access Road, which is owned by COM, and Malo Street, which is a COM ROW. The proposed alignment to Wahikuli Terrace Park Access Road and Malo Street will provide easier access for construction, operation and maintenance, repair, and future inspections of the FM.

1.3 Construction Cost and Schedule

The estimated cost of construction for the Lahaina FM No. 3 Replacement is \$9 million. It is estimated that construction will begin in 2027.



Source: County of Maui, 2025, Lahaina/Kula Pictometry 2025.



- Legend:**
- New FM No. 3
 - Parcel Lines

Lahaina Force Main No. 3 Replacement
 Environmental Assessment
LOCATION MAP

2 LAND USE PLANS, POLICIES, AND CONTROLS

2.1 Hawaii State Plan

The Hawaii State Plan, as set forth by Hawaii Revised Statutes (HRS) Chapter 226, serves as a guide for the future long-range development of the State. It identifies the goals, objectives, policies, and priorities for the State; provides a basis for determining priorities and allocating limited resources, such as public funds, services, human resources, land, energy, water, and other resources; improves coordination of state and county plans, policies, programs, projects, and regulatory activities; and establishes a system for plan formulation and program coordination to provide for an integration of all major state and county activities. The State goals are discussed below, and the objectives relevant to the proposed projects are indicated in **Table 1**.

Section 226-4: State Goals.

In order to ensure, for present and future generations, those elements of choice and mobility that ensure that individuals and groups may approach their desired levels of self-reliance and self-determination, it shall be the goal of the State to achieve:

- (1) *A strong, viable economy, characterized by stability, diversity, and growth, that enables the fulfillment of the needs and expectations of Hawaii's present and future generations.*
- (2) *A desired physical environment, characterized by beauty, cleanliness, quiet, stable natural systems, and uniqueness, that enhances the mental and physical well-being of the people.*
- (3) *Physical, social, and economic well-being, for individuals and families in Hawaii, that nourishes a sense of community responsibility, of caring, and of participation in community life.*

The proposed project supports these overall state goals by improving the reliability of the wastewater system for Hawaii's present and future generations.

Table 1. Hawaii State Plan Objectives

Objectives and Policies	Description	Applicable
§226-5 Population	It shall be the objective in planning for the State's population to guide population growth to be consistent with the achievement of physical, economic, and social objectives	No
§226-6 Economy--in general	Planning for the State's economy in general shall be directed toward achievement of the following objectives: (1) Increased and diversified employment opportunities to achieve full employment, increased income and job choice, and improved living standards for Hawaii's people, while at the same time stimulating the development and expansion of economic activities capitalizing on defense, dual-use, and science and technology assets, particularly on the neighbor islands where employment opportunities may be limited. (2) A steadily growing and diversified economic base that is not overly dependent on a few industries, and includes the development and expansion of industries on the neighbor islands.	No

Objectives and Policies	Description	Applicable
<p>§226-7 Economy--agriculture</p>	<p>Planning for the State's economy with regard to agriculture shall be directed towards achievement of the following objectives: (1) Viability of Hawaii's sugar and pineapple industries. (2) Growth and development of diversified agriculture throughout the State. (3) An agriculture industry that continues to constitute a dynamic and essential component of Hawaii's strategic, economic, and social well-being.</p>	<p>No</p>
<p>§226-8 Economy--visitor industry</p>	<p>Planning for the State's economy with regard to the visitor industry shall be directed towards the achievement of the objective of a visitor industry that constitutes a major component of steady growth for Hawaii's economy.</p>	<p>No</p>
<p>§226-9 Economy--federal expenditures</p>	<p>Planning for the State's economy with regard to federal expenditures shall be directed towards achievement of the objective of a stable federal investment base as an integral component of Hawaii's economy.</p>	<p>No</p>
<p>§226-10 Economy--potential growth and innovative activities</p>	<p>Planning for the State's economy with regard to potential growth and innovative activities shall be directed towards achievement of the objective of development and expansion of potential growth and innovative activities that serve to increase and diversify Hawaii's economic base.</p>	<p>No</p>
<p>§226-10.5 Economy--information industry</p>	<p>Planning for the State's economy with regard to telecommunications and information technology shall be directed toward recognizing that broadband and wireless communication capability and infrastructure are foundations for an innovative economy and positioning Hawaii as a leader in broadband and wireless communications and applications in the Pacific Region.</p>	<p>No</p>
<p>§226-11 Physical environment--land-based, shoreline, and marine resources</p>	<p>Planning for the State's physical environment with regard to land-based, shoreline, and marine resources shall be directed towards achievement of the following objectives: (1) Prudent use of Hawaii's land-based, shoreline, and marine resources. (2) Effective protection of Hawaii's unique and fragile environmental resources.</p>	<p>Yes</p>
<p>§226-12 Physical environment-- scenic, natural beauty, and historic resources</p>	<p>Planning for the State's physical environment shall be directed towards achievement of the objective of enhancement of Hawaii's scenic assets, natural beauty, and multi-cultural/historical resources.</p>	<p>No</p>

Objectives and Policies	Description	Applicable
§226-13 Physical environment--land, air, and water quality	Planning for the State's physical environment with regard to land, air, and water quality shall be directed towards achievement of the following objectives: (1) Maintenance and pursuit of improved quality in Hawaii's land, air, and water resources. (2) Greater public awareness and appreciation of Hawaii's environmental resources.	Yes
§226-14 Facility systems--in general	Planning for the State's facility systems in general shall be directed towards achievement of the objective of water, transportation, sustainable development, climate change adaptation, sea level rise adaptation, waste disposal, and energy and telecommunication systems that support statewide social, economic, and physical objectives.	Yes
§226-15 Facility systems--solid and liquid wastes	Planning for the State's facility systems with regard to solid and liquid wastes shall be directed towards the achievement of the following objectives: (1) Maintenance of basic public health and sanitation standards relating to treatment and disposal of solid and liquid wastes. (2) Provision of adequate sewerage facilities for physical and economic activities that alleviate problems in housing, employment, mobility, and other areas.	Yes
§226-16 Facility systems--water	Planning for the State's facility systems with regard to water shall be directed towards achievement of the objective of the provision of water to adequately accommodate domestic, agricultural, commercial, industrial, recreational, and other needs within resource capacities.	No
§226-17 Facility systems--transportation	Planning for the State's facility systems with regard to transportation shall be directed towards the achievement of the following objectives: (1) An integrated multi-modal transportation system that services statewide needs and promotes the efficient, economical, safe, and convenient movement of people and goods. (2) A statewide transportation system that is consistent with and will accommodate planned growth objectives throughout the State.	No

Objectives and Policies	Description	Applicable
<p>§226-18 Facility systems-- energy</p>	<p>Planning for the State's facility systems with regard to energy shall be directed toward the achievement of the following objectives, giving due consideration to all:</p> <p>(1) Dependable, efficient, and economical statewide energy systems capable of supporting the needs of the people;</p> <p>(2) Increased energy security and self-sufficiency through the reduction and ultimate elimination of Hawaii's dependence on imported fuels for electrical generation and ground transportation;</p> <p>(3) Greater energy security and diversification in the face of threats to Hawaii's energy supplies and systems;</p> <p>(4) Reduction, avoidance, or sequestration of greenhouse gas emissions from energy supply and use; and</p> <p>(5) Utility models that make the social and financial interests of Hawaii's utility customers a priority.</p>	<p>No</p>
<p>§226-18.5 Facility systems-- telecommunications</p>	<p>Planning for the State's telecommunications facility systems shall be directed towards the achievement of dependable, efficient, and economical statewide telecommunications systems capable of supporting the needs of the people.</p>	<p>No</p>
<p>§226-19 Socio-cultural advancement-- housing</p>	<p>Planning for the State's socio-cultural advancement with regard to housing shall be directed toward the achievement of the following objectives:</p> <p>(1) Greater opportunities for Hawaii's people to secure reasonably priced, safe, sanitary, and livable homes, located in suitable environments that satisfactorily accommodate the needs and desires of families and individuals, through collaboration and cooperation between government and nonprofit and for-profit developers to ensure that more rental and for sale affordable housing is made available to extremely low-, very low-, lower-, moderate-, and above moderate-income segments of Hawaii's population.</p> <p>(2) The orderly development of residential areas sensitive to community needs and other land uses.</p> <p>(3) The development and provision of affordable rental housing by the State to meet the housing needs of Hawaii's people.</p>	<p>No</p>
<p>§226-20 Socio-cultural advancement--health</p>	<p>Planning for the State's socio-cultural advancement with regard to health shall be directed towards achievement of the following objectives:</p> <p>(1) Fulfillment of basic individual health needs of the general public.</p> <p>(2) Maintenance of sanitary and environmentally healthful conditions in Hawaii's communities.</p> <p>(3) Elimination of health disparities by identifying and addressing social determinants of health.</p>	<p>No</p>

Objectives and Policies	Description	Applicable
§226-21 Socio-cultural advancement--education	Planning for the State's socio-cultural advancement with regard to education shall be directed towards achievement of the objective of the provision of a variety of educational opportunities to enable individuals to fulfill their needs, responsibilities, and aspirations.	No
§226-22 Socio-cultural advancement--social services	Planning for the State's socio-cultural advancement with regard to social services shall be directed towards the achievement of the objective of improved public and private social services and activities that enable individuals, families, and groups to become more self-reliant and confident to improve their well-being.	No
§226-23 Socio-cultural advancement--leisure	Planning for the State's socio-cultural advancement with regard to leisure shall be directed towards the achievement of the objective of the adequate provision of resources to accommodate diverse cultural, artistic, and recreational needs for present and future generations.	No
§226-24 Socio-cultural advancement--individual rights and personal well-being	Planning for the State's socio-cultural advancement with regard to individual rights and personal well-being shall be directed towards achievement of the objective of increased opportunities and protection of individual rights to enable individuals to fulfill their socio-economic needs and aspirations.	No
§226-25 Socio-cultural advancement--culture	Planning for the State's socio-cultural advancement with regard to culture shall be directed toward the achievement of the objective of enhancement of cultural identities, traditions, values, customs, and arts of Hawaii's people.	No
§226-26 Socio-cultural advancement--public safety	<p>Planning for the State's socio-cultural advancement with regard to public safety shall be directed towards the achievement of the following objectives:</p> <p>(1) Assurance of public safety and adequate protection of life and property for all people.</p> <p>(2) Optimum organizational readiness and capability in all phases of emergency management to maintain the strength, resources, and social and economic well-being of the community in the event of civil disruptions, wars, natural disasters, and other major disturbances.</p> <p>(3) Promotion of a sense of community responsibility for the welfare and safety of Hawaii's people.</p>	No
§226-27 Socio-cultural advancement--government	<p>Planning the State's socio-cultural advancement with regard to government shall be directed towards the achievement of the following objectives:</p> <p>(1) Efficient, effective, and responsive government services at all levels in the State.</p> <p>(2) Fiscal integrity, responsibility, and efficiency in the state government and county governments.</p>	Yes

The objectives and policies relevant to the proposed project are listed and discussed below.

Section 226-11: Objectives and policies for the physical environment – land-based, shoreline, and marine resources.

- (A) *Planning for the State's physical environment with regard to land-based, shoreline, and marine resources shall be directed towards achievement of the following objectives:*
 - (1) *Prudent use of Hawaii's land-based, shoreline, and marine resources.*
 - (2) *Effective protection of Hawaii's unique and fragile environmental resources.*
- (B) *To achieve the land-based, shoreline, and marine resources objectives, it shall be the policy of this State to:*
 - (1) *Exercise an overall conservation ethic in the use of Hawaii's natural resources.*
 - (2) *Ensure compatibility between land-based and water-based activities and natural resources and ecological systems.*
 - (3) *Take into account the physical attributes of areas when planning and designing activities and facilities.*

Section 226-13: Objectives and policies for the physical environment – land, air, and water quality.

- (A) *Planning for the State's physical environment with regard to land, air, and water quality shall be directed towards achievement of the following objectives:*
 - (1) *Maintenance and pursuit of improved quality in Hawaii's land, air, and water resources.*
 - (2) *Greater public awareness and appreciation of Hawaii's environmental resources.*
- (B) *To achieve the land, air, and water quality objectives, it shall be the policy of this State to:*
 - (2) *Promote the proper management of Hawaii's land and water resources.*
 - (7) *Encourage urban developments in close proximity to existing services and facilities.*

Section 226-14: Objectives and policies for facility systems – in general.

- (A) *Planning for the State's facility systems in general shall be directed towards achievement of the objective of water, transportation, sustainable development, climate change adaptation, sea level rise adaptation, waste disposal, and energy and telecommunication systems that support statewide social, economic, and physical objectives.*
- (B) *To achieve the general facility systems objective, it shall be the policy of this State to:*
 - (1) *Accommodate the needs of Hawaii's people through coordination of facility systems and capital improvement priorities in consonance with state and county plans.*
 - (2) *Encourage flexibility in the design and development of facility systems to promote prudent use of resources and accommodate changing public demands and priorities.*

Section 226-15: Objectives and policies for facility systems – solid and liquid wastes.

- (A) *Planning for the State's facility systems with regard to solid and liquid wastes shall be directed towards the achievement of the following objectives.*
 - (1) *Maintenance of basic public health and sanitation standards relating to treatment and disposal of solid and liquid wastes.*
 - (2) *Provision of adequate sewerage facilities for physical and economic activities that alleviate problems in housing, employment, mobility, and other areas.*
- (B) *To achieve the solid and liquid waste objectives, it shall be the policy of this State to:*
 - (1) *Encourage the adequate development of sewerage facilities that complement planned growth.*

Section 226-27: Objective and policies for socio-cultural advancement – government.

- (A) *Planning for the State’s socio-cultural advancement with regard to government shall be directed towards the achievement of the following objectives.*
 - (1) *Efficient, effective, and responsive government services at all levels in the State.*
 - (2) *Fiscal integrity, responsibility, and efficiency in the state government and county governments.*
- (B) *To achieve the government objective, it shall be the policy of this State to:*
 - (1) *Provide for necessary public goods and services not assumed by the private sector.*

The proposed project will upgrade the facility systems, specifically sewerage facilities. The proposed FM will improve its operational reliability and continue to provide sewer service to the public. The project area is located near the shoreline area and will comply with Coastal Zone Management Program and COM Shoreline Setback Rules. Finally, the project is providing upgrades to the public infrastructure which is a good and service not assumed by the private sector. Hence, the proposed project complies with the aforementioned goals, objectives, and policies.

2.2 State Land Use

HRS Chapter 205, Land Use Commission, establishes four general land use districts in which all lands in the State are placed. These four districts are Urban, Rural, Agricultural, and Conservation. The State Land Use classification for the project site is provided in **Table 2**. See **Figure 2 – State Land Use Map**.

Table 2. State Land Use Classification

TMK	State Land Use District
(2)4-5-014:077	Urban
(2)4-5-021:007	Urban
(2)4-5-021:025	Urban
(2)4-5-030:015	Urban
(2)4-5-030:137	Urban
(2)4-5-030:138	Urban

Permissible uses within the Urban district are any and all uses permitted by COM. Uses permitted by COM are discussed in **Sections 2.3, 2.4, and 2.5**.

2.3 Maui Island Plan

The Maui County General Plan is a set of documents that guides future growth and policy direction in the County. The General Plan consists of the Countywide Policy Plan, the Maui Island Plan (MIP), and Community Plans. The Countywide Policy Plan is an umbrella policy document that provides the framework for the development of the MIP and Community Plans. The MIP and the Community Plans implement the concepts set forth in the Countywide Policy Plan.

The MIP took effect in December 2012 and is a direction-setting document that “establishes a vision, founded on core values that break down into goals, objectives, policies, and actions.” The vision and core values for Maui Island as stated in the MIP are as follows:

Vision: *Maui Island will be environmentally, economically, and culturally sustainable with clean, safe, and livable communities and small towns that will protect and perpetuate a pono lifestyle for the future.*

Core Values:

- A. *Adopt responsible stewardship principles by applying sound natural resource management practices.*
- B. *Respect and protect our heritage, traditions, and multi-cultural resources.*
- C. *Plan and build communities that include a diversity of housing.*
- D. *Retain and enhance the unique identity and sense of place.*
- E. *Preserve rural and agricultural lands and encourage sustainable agriculture.*
- F. *Secure necessary infrastructure concurrently with future development.*
- G. *Support efforts that contribute to a sustainable and diverse economy for Maui.*
- H. *Create a political climate that seeks and responds to citizen input.*
- I. *Respect and acknowledge the dignity of those who live on Maui.*
- J. *Establish a sustainable transportation system that includes multiple modes, including walking, biking, and mass transit, as well as automobile-based modes.*
- K. *Recognize and be sensitive to land ownership issues and work towards resolution.*

The MIP goals, objectives, and policies most relevant to the proposed project are listed below:

- Goal 6.2: *Maui will have wastewater systems that comply with or exceed State and Federal regulations; meet levels-of-service needs; provide adequate capacity to accommodate projected demand; ensure efficient, effective, and environmentally sensitive operation; and maximize wastewater reuse where feasible.*
 - Objective 6.2.2: *Adequate levels of wastewater service with minimal environmental impacts.*
 - Policy 6.2.2.c: *Improve and upgrade the County's existing wastewater collection, treatment, and reuse facilities consistent with current and future plans and the County's Capital Improvement Plan (CIP).*

The proposed project will upgrade the County's existing wastewater collection system by replacing an aging sewer force main.

2.4 West Maui Community Plan

The West Maui Community Plan, dated 2022, is one of nine community plans for COM. The updated 2022 plan places a greater emphasis on the interconnectedness of systems, structures, and services that are vital for future planning. It is a strategic planning document that provides goals, policies, and action considerations to guide decision-making in West Maui.

The policies and guidelines contained in the West Maui Community Plan most relevant to the proposed project are listed below:

Goal 2.1 Ready and Resilient Systems: *With this goal, West Maui is committed to supporting improved infrastructure systems for an adaptive and resilient community that meets the needs of residents and fosters responsible stewardship of West Maui's infrastructure.*

Goal 2.5 Safe, Healthy, Livable Communities for All: With this goal, West Maui is committed to creating and supporting places that are resilient to hazards, meet the daily needs of residents, provide opportunities to live a healthy lifestyle with easy access to fresh food and fresh air, include a variety of affordable housing options near jobs, and provide safe routes to and from home.

- Policy 2.5.20: Promote the placement of utilities underground in new areas of development and in existing areas, where possible, unless desecration of iwi kupuna is likely to occur or if the development lies within areas of significant cultural resources in the proposed cultural overlay, a permit will be required.

The proposed project will replace an existing sewer force main and the new force main will be installed underground.

The West Maui Community Plan designation for the project site is Park and Residential. See **Table 3** and **Figure 3**. Residential is intended to establish, protect, and appropriately infill low-to-moderate-density residential areas. Park is intended to preserve and manage lands for recreational activities. A majority of the proposed FM will be located in the Residential area designation. The start of the proposed FM is located at the Lahaina WWPS No. 3 and is bordered to the north, east, and south by Wahikuli Terrace Park. The end of the proposed force main is located near parcel (2) 4-5-021:025 which is the old Lahaina WWPS No. 3 and is no longer an active pump station. This parcel is bordered to the north, west, and south by Wahikuli Wayside Park.

Table 3. West Maui Community Plan Designation

TMK	West Maui Community Plan Designation
(2)4-5-014:077	Residential
(2)4-5-021:007	Park
(2)4-5-021:025	Park
(2)4-5-030:015	Park
(2)4-5-030:137	Residential
(2)4-5-030:138	Residential

2.5 Maui County Zoning

The Comprehensive Zoning Ordinance (CZO) of Maui County regulates land use in a manner encouraging orderly development in accordance with HRS, the revised charter of the County, and the General Plan and community plans of the County. The CZO provides development standards which implement the community plans.

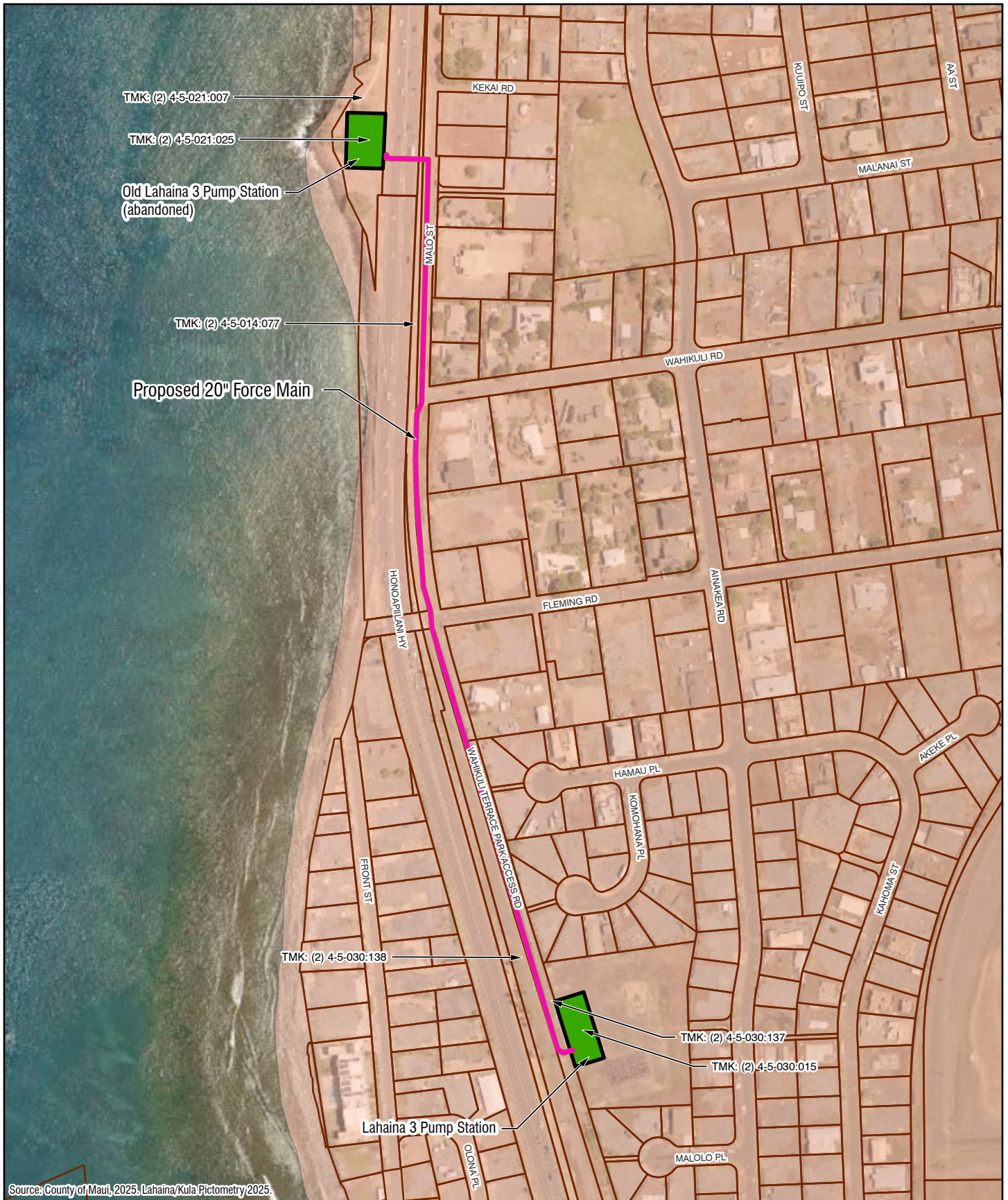
The zoning designation for the project sites is provided in **Table 4**. See **Figure 4**.

Table 4. Maui County Zoning Designation

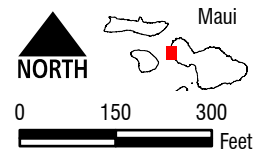
TMK	Zoning District
(2)4-5-014:077	R-3 Residential
(2)4-5-021:007	R-3 Residential
(2)4-5-021:025	R-3 Residential

(2)4-5-030:015	R-2 Residential
(2)4-5-030:137	R-2 Residential
(2)4-5-030:138	R-2 Residential

The proposed FM will be installed on lands zoned as R-2 Residential and R-3 Residential. “Buildings or premises used by the federal, State or County governments for public purposes” is one of the permitted uses in the residential district per Maui County Code Chapter 19.08.020. The proposed FM will serve the public and will be operated by the County of Maui. It is therefore allowed in the R-2 and R-3 zoned areas.



Source: County of Maui, 2025, Lahaina/Kula Pictometry 2025.



Legend:

- New FM No. 3
- Agriculture
- Rural
- Parcel Lines
- Conservation
- Urban

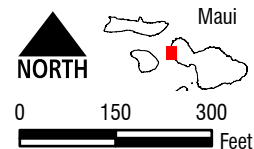
Lahaina Force Main No. 3 Replacement
Environmental Assessment

**STATE LAND
USE MAP**

FIGURE 2



Source: County of Maui, 2025, Lahaina/Kula Pictometry 2025.

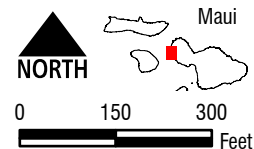


- Legend:**
- █ New FM No. 3
 - Parcel Lines
 - RES - Residential
 - NC - Neighborhood Center
 - PK - Park

Lahaina Force Main No. 3 Replacement
 Environmental Assessment
WEST MAUI COMMUNITY
PLAN MAP



Source: County of Maui, 2025. Lahaina/Kula Pictometry 2025.



Legend:

- New FM No. 3
- Parcel Lines
- B-2 Business - Community
- R-1 Residential
- P-1 Public/Quasi-Public
- AG Agriculture
- R-3 Residential
- R-2 Residential
- Road

Lahaina Force Main No. 3 Replacement
Environmental Assessment
**COUNTY ZONING
ORDINANCE MAP**

2.6 Flood and Tsunami Hazards

The State of Hawaii Department of Land and Natural Resources (DLNR) Flood Hazard Assessment Tool is an informational mapping viewer that displays flood zones based on the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM). The proposed improvements are within FIRM panel 1500030353F, dated September 19, 2012 and FIRM panel 1500030361F, dated September 19, 2012.

See **Table 5** for flood zone designations and **Figure 5** for a report for the project area generated by the DLNR Flood Hazard Assessment Tool.

Table 5. Flood Hazard Zones

TMK	Flood Zones on Parcel	Flood Zone for Proposed FM Location
(2)4-5-014:077	AE X	AE
(2)4-5-021:007	A AE VE X	AE
(2)4-5-021:025	AE VE	AE
(2)4-5-030:015	X	X
(2)4-5-030:137	X	X
(2)4-5-030:138	X	X

The proposed FM will be located in Zone AE and Zone X. Zone AE is an area subject to inundation by a 1% annual chance flood where base flood elevations are determined. Zone X is an area determined to be outside the 0.2% annual chance floodplain. Zone AE is considered flood fringe area and development in this area will require a special flood hazard area development permit. However, since the proposed FM is not considered a structure and since there are no changes in elevations, it is anticipated that the application process will be basic.

The proposed FM is located within the Tsunami Evacuation Zone as defined by the National Oceanic and Atmospheric Administration (NOAA) Tsunami Evacuation Zone Map. However, since the proposed FM will be below ground, damage due to a tsunami is not anticipated. See **Figure 6** for a map of the tsunami evacuation zones in the vicinity of the proposed FM.

2.7 Sea Level Rise

The Hawaii Sea Level Rise Vulnerability and Adaptation Report was published by the Hawaii Climate Change Mitigation and Adaptation Commission in 2017 as mandated by Act 83 and Act 32. The report assesses Hawaii's vulnerability to sea level rise and provides recommendations on how to prepare for the changes to come. Approximately 3.2 feet of sea level rise is predicted by the year 2100, but the report urges the State to plan for this level of rise now. The state

The Pacific Islands Ocean Observing System developed the Hawaii Sea Level Rise Viewer, which displays the sea level rise results from the hazard modeling and vulnerability assessment that were

developed for the report. The sea level rise exposure area (SLR-XA) was determined from available data for three chronic flooding hazards: passive flooding, annual high wave flooding, and coastal erosion. Portions of the project are within the SLR-XA. However, the proposed force main will be installed underground and is not anticipated to have adverse effect on SLR-XA and is not anticipated to be adversely impacted by sea level. The proposed FM will be polyvinyl chloride (PVC) pipe and will have minimal valves along the FM. PVC pipe is corrosion resistant and the FM will require minimal servicing and maintenance. See **Figure 7** for a map of the areas projected to be affected by the 3.2 feet of SLR-XA.

See **Section 5.2.2** for discussion on site alternatives including alternatives for relocation outside of the SLR-XA.

2.8 Shoreline Setback

Title MC-12, Chapter 203 Shoreline Rules for the Maui Planning Commission, in accordance with HRS Chapter 205A, establishes standards and procedures that apply to lands within the shoreline setback area. The shoreline is defined as the upper reaches of the wash of the waves, other than storm and seismic waves, at high tide during the season of the year in which the highest wash of the waves occur, usually evidenced by the edge of vegetation, or the upper limit of debris left by the wash of the waves. The shoreline area is all of the land between the shoreline and shoreline setback line. Per Title 12, Chapter 203 of the Maui County Administrative Rules, the shoreline setback line is established as follows:








- Not less than 40 feet inland from the shoreline; and
- For areas where the erosion hazard line is mapped, the shoreline setback is the same distance used to map the erosion hazard line.
- For areas where there is no mapped erosion hazard line, the shoreline setback line shall be two hundred feet from the shoreline.

Figure 8 shows the project site relative to the shoreline, the erosion hazard line and the 200 foot setback line. Portions of the project are within the erosion hazard line and the 200 foot setback line. The project will require an Approval of Structures and Activities, that comply with Title MC-12, Chapter 203, sections 12-203-12 and 12-203-13, or will require a shoreline setback variance, that comply with Title MC-12, Chapter 203, sections 12-203-14 and 12-203-15. The COM Planning Department were contacted during preparation of this environmental assessment and their early consultation responses are included in **Appendix A**. The COM Planning Department provided information on shoreline setback requirements and noted that a sewer force main is a critical component of a public sanitary sewer utility system and that a Shoreline Setback Approval application will be required.



FLOOD HAZARD ASSESSMENT TOOL LAYER LEGEND

(Note: legend does not correspond with NFHL)


SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD - The 1% annual chance flood (100-year), also known as the base flood, is the flood that has a 1% chance of being equalled or exceeded in any given year. SFHAs include Zone A, AE, AH, AO, V, and VE. The Base Flood Elevation (BFE) is the water surface elevation of the 1% annual chance flood. Mandatory flood insurance purchase applies in these zones:

	Zone A: No BFE determined.
	Zone AE: BFE determined.
	Zone AH: Flood depths of 1 to 3 feet (usually areas of ponding); BFE determined.
	Zone AO: Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined.
	Zone V: Coastal flood zone with velocity hazard (wave action); no BFE determined.
	Zone VE: Coastal flood zone with velocity hazard (wave action); BFE determined.
	Zone AEF: Floodway areas in Zone AE. The floodway is the channel of stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without increasing the BFE.

NON-SPECIAL FLOOD HAZARD AREA - An area in a low-to-moderate risk flood zone. No mandatory flood insurance purchase requirements apply, but coverage is available in participating communities.

	Zone XS (X shaded): Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.
	Zone X: Areas determined to be outside the 0.2% annual chance floodplain.

OTHER FLOOD AREAS

	Zone D: Unstudied areas where flood hazards are undetermined, but flooding is possible. No mandatory flood insurance purchase apply, but coverage is available in participating communities.
--	---

400 ft



Flood Hazard Map

Map generated on 12/17/2025
 FIRM Panels: 1500030353F and 1500030361F eff. 9/19/2012

Disclaimer: The Hawaii Department of Land and Natural Resources (DLNR) assumes no responsibility arising from the use, accuracy, completeness, and timeliness of any information contained in this report. Viewers/Users are responsible for verifying the accuracy of the information and agree to indemnify the DLNR, its officers, and employees from any liability which may arise from its use of its data or information.

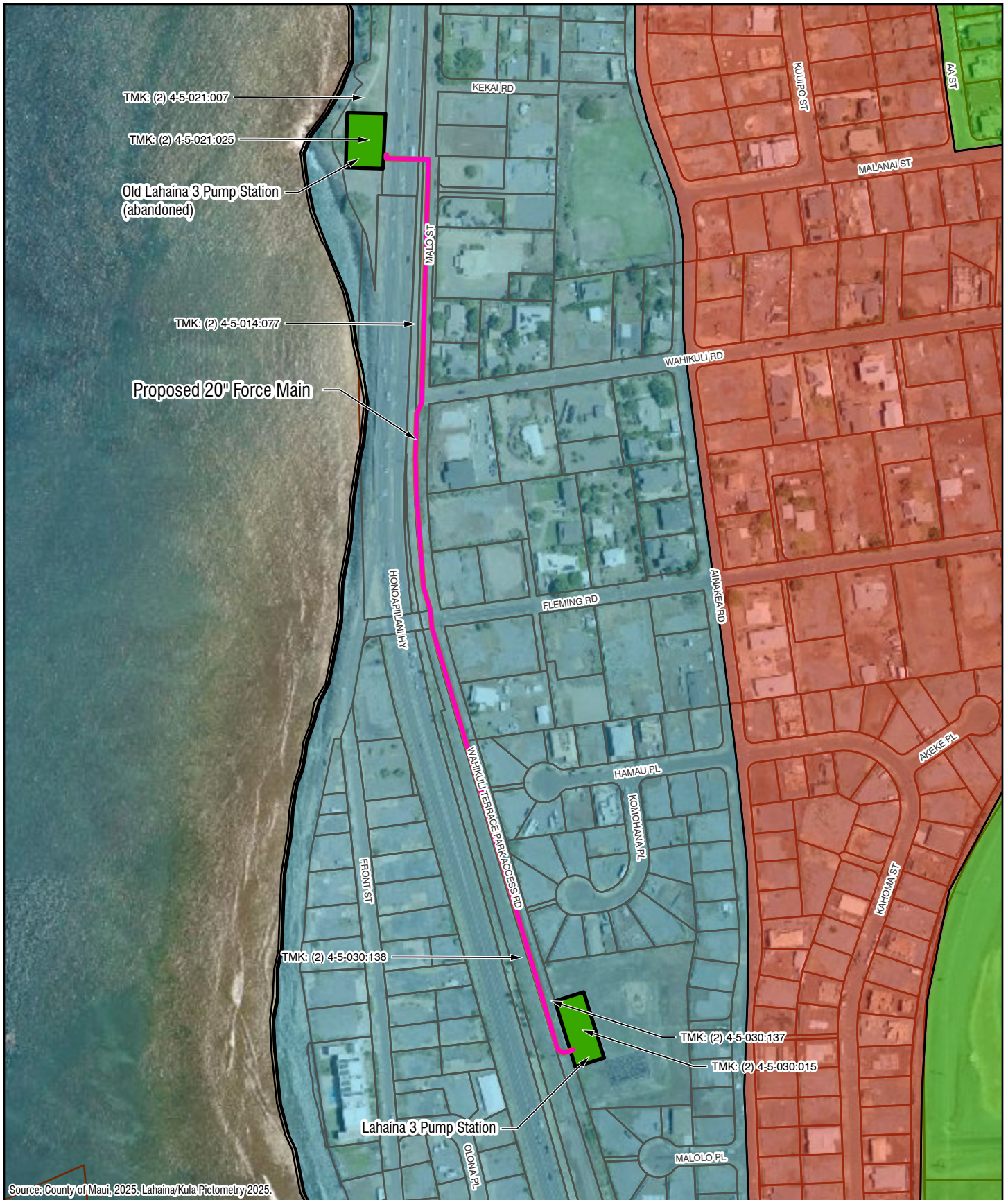


Lahaina Force Main No. 3 Replacement
 Environmental Assessment

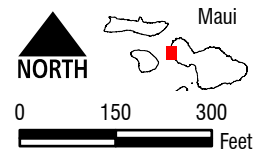
FUKUNAGA & ASSOCIATES, INC.
 Consulting Engineers

Flood Hazard Assessment Report

Figure 5



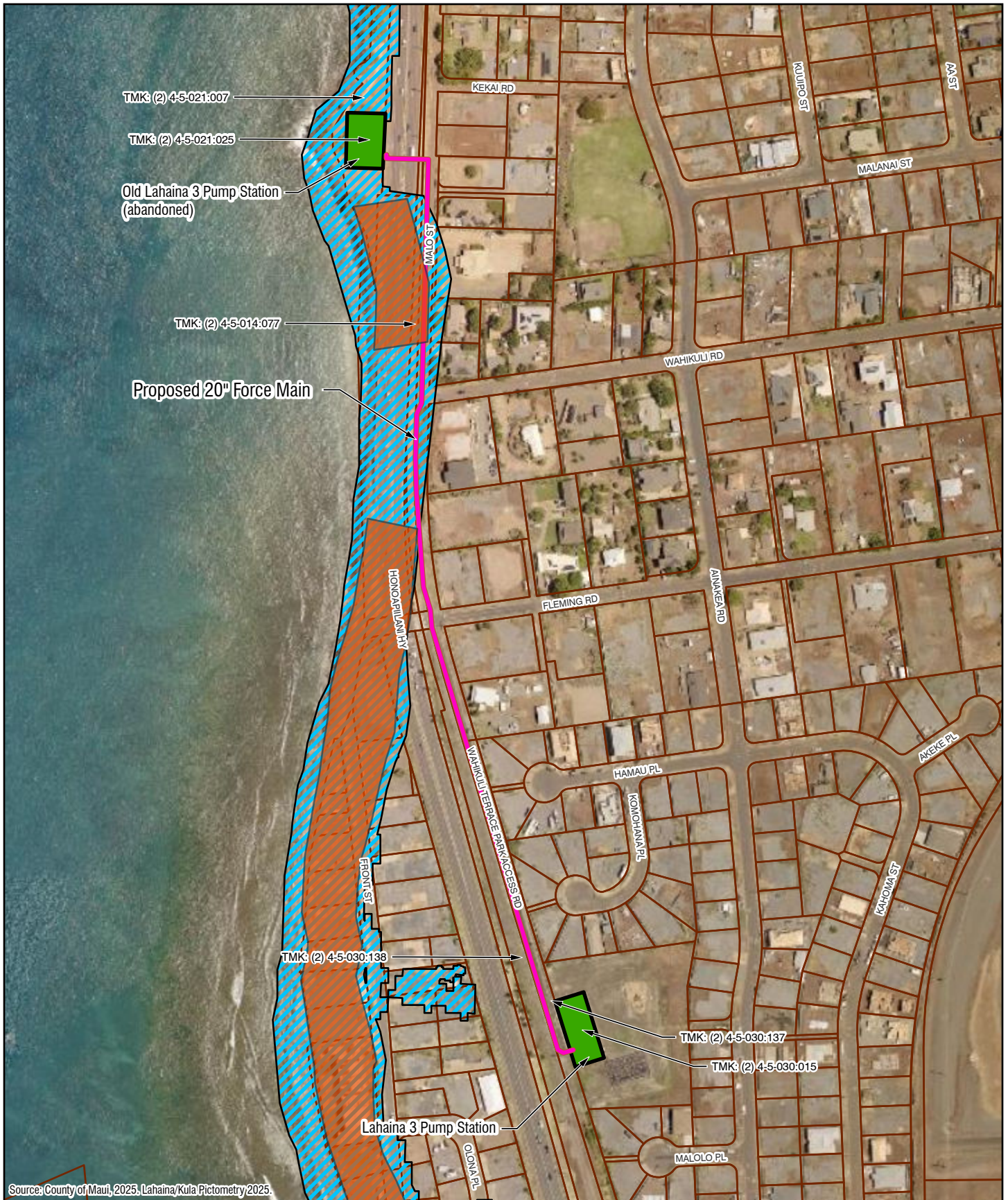
Source: County of Maui, 2025. Lahaina/Kula Pictometry 2025.



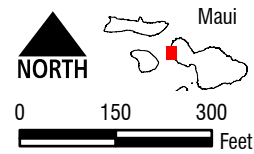
Legend:

- New FM No. 3
- Parcel Lines
- Tsunami Evacuation Zone
- Extreme Tsunami Evacuation Zone
- Tsunami Safe Zone

Lahaina Force Main No. 3 Replacement
Environmental Assessment
**TSUNAMI EVACUATION
ZONE MAP**



Source: County of Maui, 2025, Lahaina/Kula Pictometry 2025.



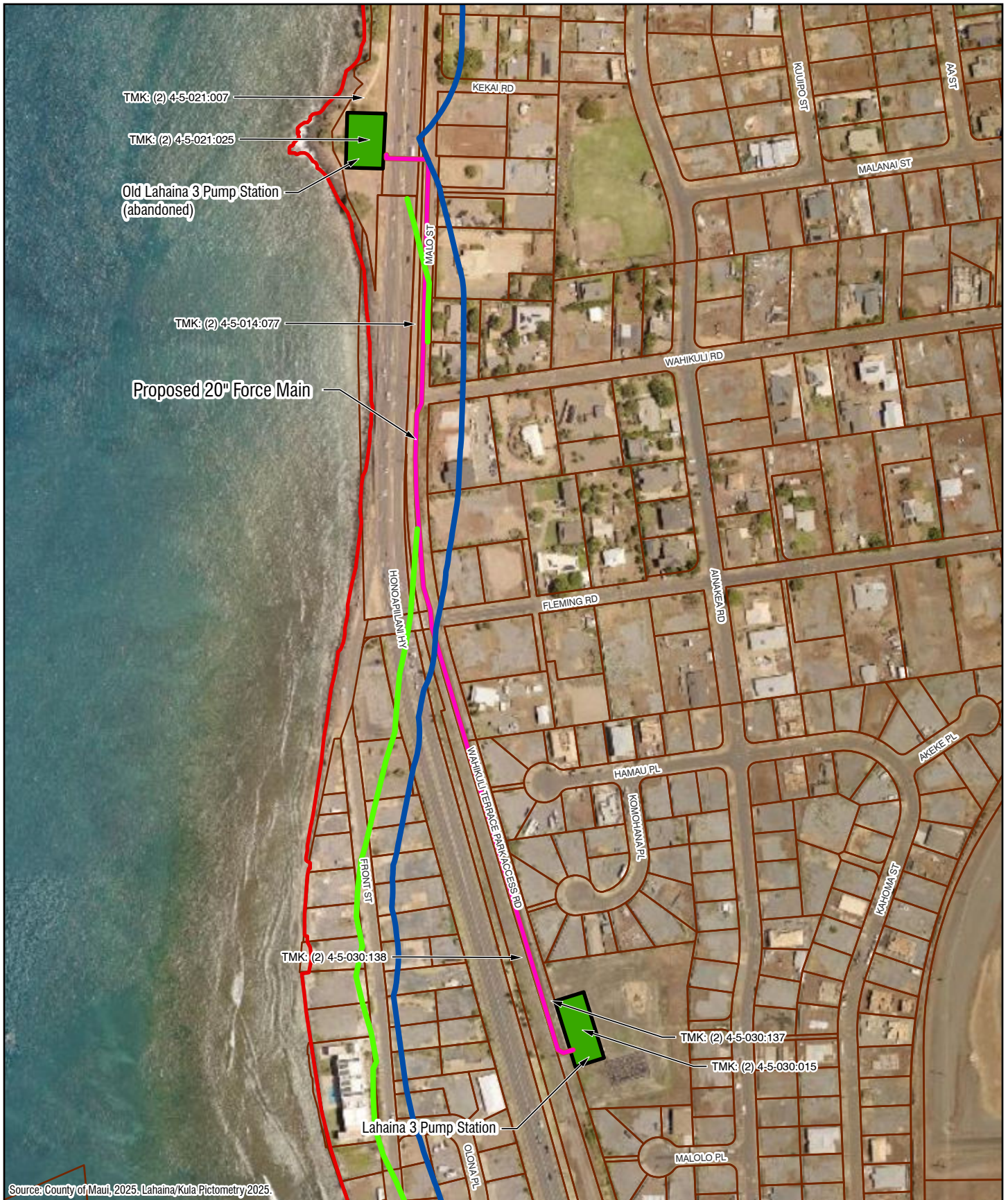
Legend:

- New FM No. 3
- Parcel Lines
- Sea Level Rise Exposure Area (SLR-XA)
- Coastal Erosion (SLR-XA)

Lahaina Force Main No. 3 Replacement
Environmental Assessment

**SEA LEVEL
RISE MAP**

FIGURE 7



TMK: (2) 4-5-021:007

TMK: (2) 4-5-021:025

Old Lahaina 3 Pump Station
(abandoned)

TMK: (2) 4-5-014:077

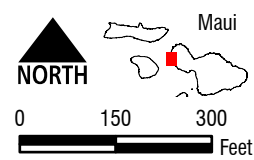
Proposed 20" Force Main

TMK: (2) 4-5-030:138

TMK: (2) 4-5-030:137

TMK: (2) 4-5-030:015

Lahaina 3 Pump Station



Legend:

- New FM No. 3
- 200 ft. Setback
- Erosion Hazard Line Setback
- Maui County Coastline
- Parcel Lines

Lahaina Force Main No. 3 Replacement
Environmental Assessment
SHORELINE MAP

2.9 Coastal Zone Management Program

The Hawaii Coastal Zone Management (CZM) law (HRS Chapter 205A) was enacted in 1977. All lands of the state are within the CZM area, and all agencies are responsible to enforce the objectives and policies set forth in HRS Chapter 205A-2. The ten CZM objectives are as follows:

- Recreational Resources: *Provide coastal recreational opportunities accessible to the public.*
- Historic Resources: *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.*
- Scenic and open space resources: *Protect, preserve, and where desirable, restore or improve the quality of coastal scenic and open space resources.*
- Coastal ecosystems: *Protect valuable coastal ecosystems, including reefs, from disruption and minimize adverse impacts on all coastal ecosystems.*
- Economic uses: *Provide public or private facilities and improvements important to the State's economy in suitable locations.*
- Coastal hazards: *Reduce hazard to life and property from tsunami, storm waves, stream flooding, erosion, subsidence, and pollution.*
- Managing development: *Improve the development review process, communication, and public participation in the management of coastal resources and hazards.*
- Public participation: *Stimulate public awareness, education, and participation in coastal management.*
- Beach and coastal dune protection: *Protect beaches and coastal dunes for public use and recreation, the benefit of coastal ecosystem, and use as natural buffers against coastal hazards. Coordinate and fund beach management and protection.*
- Marine and coastal resources: *Promote the protection, use, and development of marine and coastal resources to assure their sustainability.*

The proposed project conforms to the CZM objectives and policies. An analysis of the proposed project's conformance follows:

- Recreational resources: The proposed project will not change recreational resources. The project is a force main that will be installed underground with the disturbed surface being restored to original condition. No change to public access to the shoreline is being proposed.
- Historic resources: The project site is not listed on the Hawaii Register of Historic Places or the National Register of Historic Places. Research on the affected TMK's were also conducted by reviewing available information from the State of Hawaii, Department of Health's Office of Environmental Quality Control, Online Library of Environmental Assessments and Environmental Impact Statements. The *Final Environmental Assessment, Lahaina Wastewater Pump Station 3 and Related Improvements* dated 1994 and the *Final Environmental Assessment and Finding of No Significant Impact, Wabikuli Subdivision Gravity Sewer System* dated 2025 contained information on the project site. One item, State Inventory of Historic Places (SIHP) Site 50-50-03-08887, the Lahaina, Kaanapali & Pacific railroad, was identified as a historic property that was also within the Lahaina Force Main No. 3 Replacement project site. The proposed force main will cross the railroad as the force main

turns from Malo Street to Honoapiilani Highway. The railroad will be temporarily removed during construction and will be restored to its original condition upon completion of the work. Therefore, there will be no permanent impact on the railroad.

The force main alignment is generally located within roadway areas including Wahikuli Terrace Access Road, Malo Street, and Honoapiilani Highway, and there are no reports of subsurface historic resources within the project area. In the unlikely event that subsurface historic resources, including human skeletal remains, structural remains, cultural deposits, artifacts, sand deposits, or sink holes are identified during the demolition and/or construction work, the Contractor shall cease work in the immediate vicinity of the find, protect the find from additional disturbance, and contact State Historic Preservation Division (SHPD).

- Scenic and open space resources: The proposed project will not create visual impacts. The project is a force main that will be installed underground with the disturbed surface being restored to original condition.
- Coastal ecosystems: Erosion control plans and construction best management practices will be prepared and enforced to mitigate impact from construction activities. The long-term impact of the proposed project on water quality is discussed further in **Section 4.2.1**.
- Economic uses: The proposed project is not a coastal dependent development. The project site is in suitable locations.
- Coastal hazards: The majority of the project site is located in Zone X; the remainder of the project site is located in Zone AE. Zone X is an area of minimal flood hazard that is determined to be outside the 0.2% annual chance floodplain. Zone AE is an area subject to inundation by a 1% annual chance flood where the base flood elevations are determined. Zone AE is considered flood fringe area. Portions of the project are within the shoreline setback line and will be subject to Title MC-12, Chapter 203 Shoreline Rules for the Maui Planning Commission. See **Section 2.8** for further discussion. The entire project area is within the tsunami evacuation zone. However, the proposed force main will be below ground and no impact due to tsunami is anticipated.
- Managing development: The environmental review process set forth in HRS Chapter 343 ensures that environmental concerns are given appropriate consideration in decision making along with economic and technical considerations and integrates public notification and participation in development of the proposed project.
- Public participation: The environmental review process set forth in HRS Chapter 343 ensures that environmental concerns are given appropriate consideration in decision making along with economic and technical considerations and integrates public notification and participation in development of the proposed project.
- Beach protection: Portions of the project are within the shoreline setback line and will be subject to Title MC-12, Chapter 203 Shoreline Rules for the Maui Planning Commission. See

Section 2.8 for further discussion. The force main will be installed underground with the disturbed surface being returned to original condition. There are no anticipated impacts on beach resources.

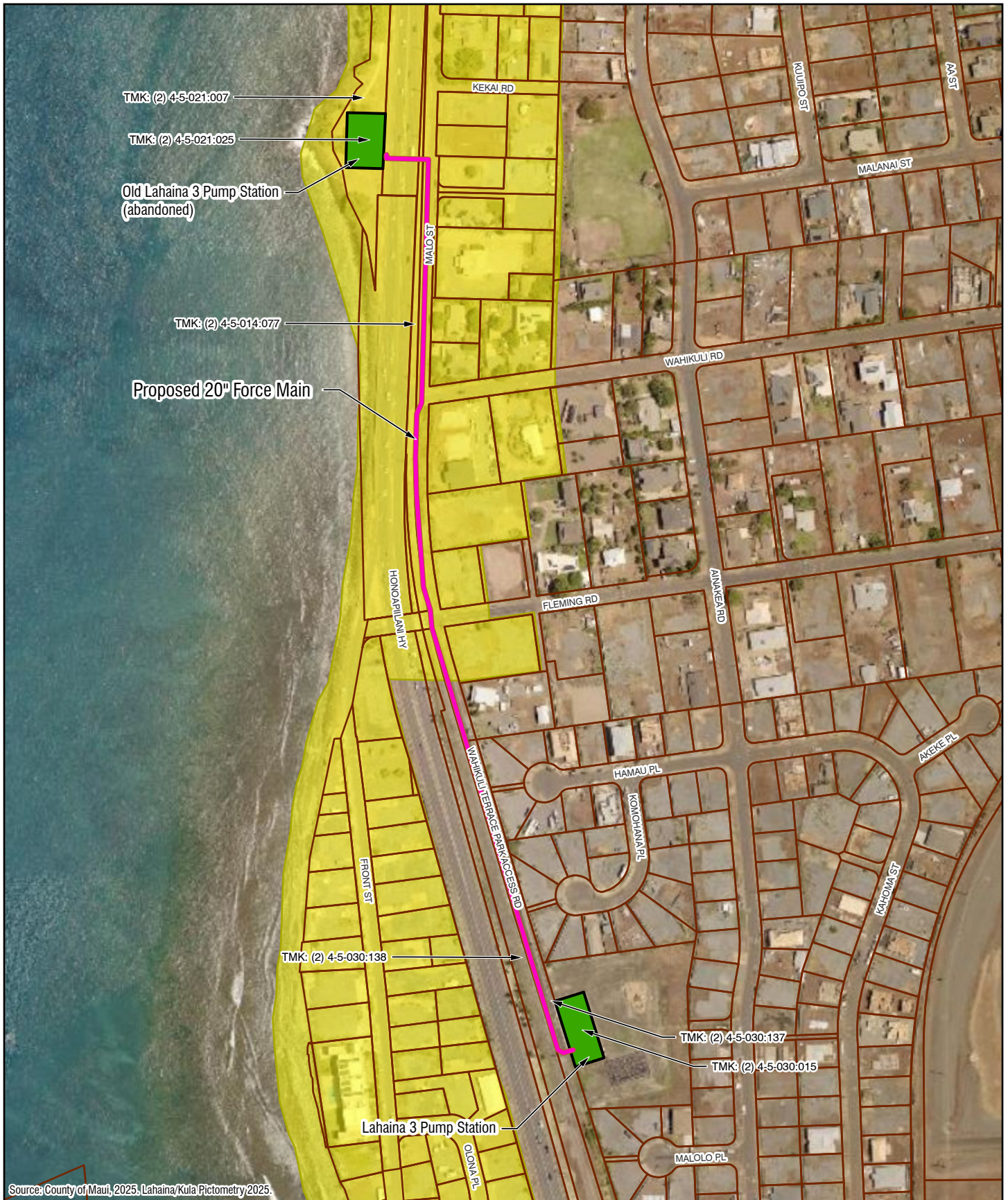
- **Marine resources:** Portions of the project are within the shoreline setback line and will be subject to Title MC-12, Chapter 203 Shoreline Rules for the Maui Planning Commission. See **Section 2.8** for further discussion. The force main will be installed underground with the disturbed surface being returned to original condition. There are no anticipated impacts on marine resources.

Part II of the CZM law describes special management areas (SMAs) and its permit system. SMAs are areas needing particularly careful management, and the SMA permit is a tool to assure that uses, activities, and operations within an SMA comply with the CZM objectives and policies and SMA guidelines. **Figure 9** shows the SMA in the vicinity of the proposed project. Portions of the proposed project are within the SMA. The proposed project is to install an underground force main, and installation of an underground utility line is generally not considered “development” per HRS Chapter 205A-22 and typically does not require an SMA permit. The COM Planning Department were contacted during preparation of this environmental assessment and their early consultation responses are included in **Appendix A**. The COM Planning Department provided information on SMA permit requirements and noted that the project would not be considered development and would likely qualify as an exemption.

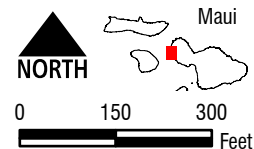
2.10 UIC

The Underground Injection Control (UIC) Program is one of several programs administered by the Department of Health (DOH) Safe Drinking Water Branch. The UIC Program serves to protect the quality of Hawaii’s underground sources of drinking water from chemical, physical, radioactive, and biological contamination that could originate from injection well activity. Hawaii Administrative Rules (HAR) Chapter 11-23 Underground Injection Control, provides conditions governing the location, construction, and operation of injection wells to prevent injected fluids from migrating and polluting aquifers designated as sources of drinking water. The UIC Line is the boundary between exempted aquifers, or non-drinking water aquifers, and underground sources of drinking water.

The proposed project does not include work related to locating, constructing, or operating an injection well, and is therefore not subject to the conditions of the UIC Program. **Figure 10** depicts the UIC Line relative to the proposed improvements. The proposed improvements are not considered a well and are below the UIC line where the underlying aquifer is not considered a drinking water source.

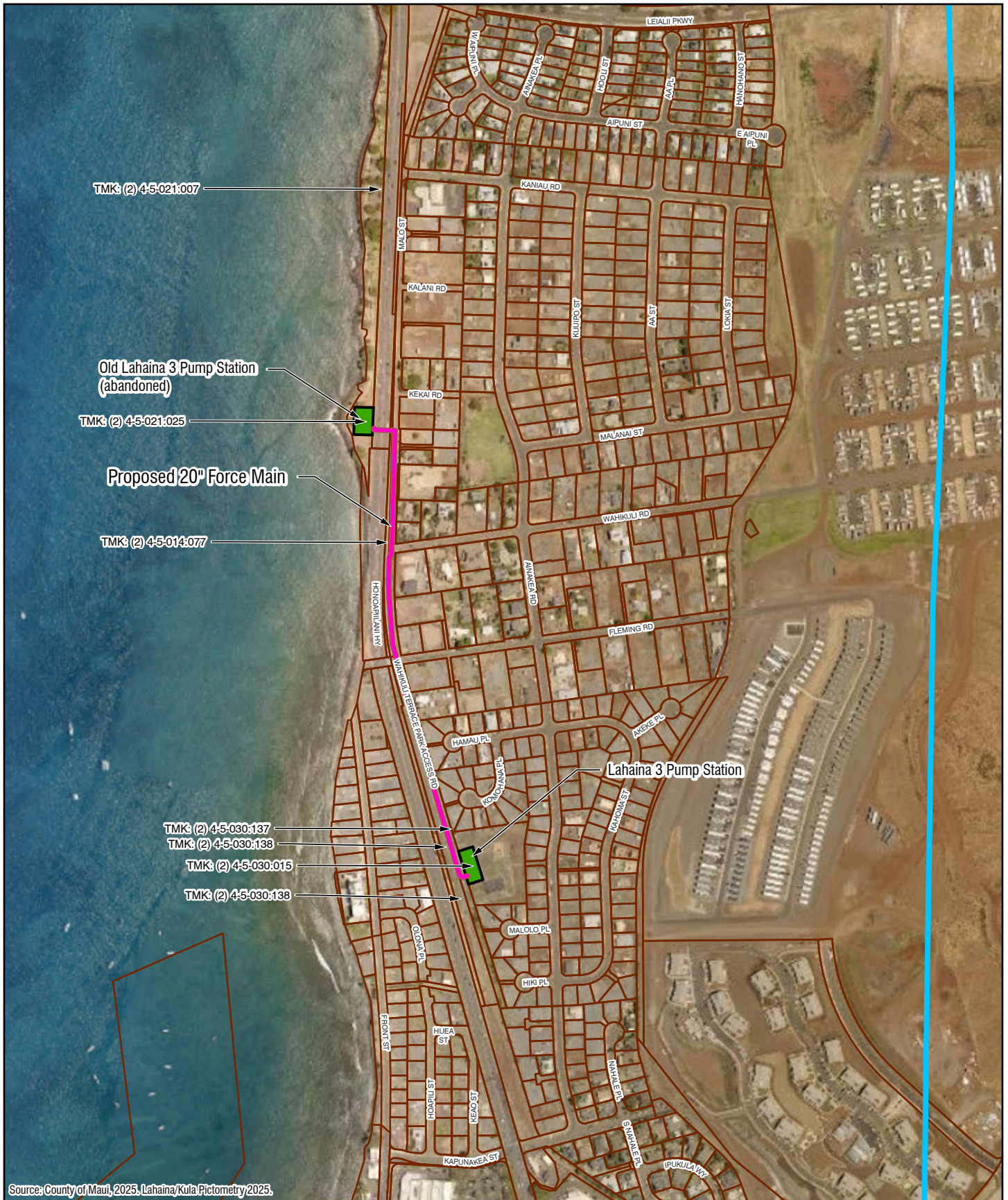


Source: County of Maui, 2025, Lahaina/Kula Pictometry 2025.



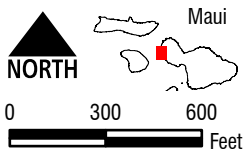
- Legend:**
- New FM No. 3
 - Parcel Lines
 - Special Management Area

Lahaina Force Main No. 3 Replacement
Environmental Assessment
**SPECIAL MANAGEMENT
AREA MAP**



Lahaina Force Main No. 3 Replacement
 Environmental Assessment
**UNDERGROUND INJECTION
 CONTROL LINE MAP**

FIGURE 10



- Legend:**
- New FM No. 3
 - Parcel Lines
 - Underground Injection Control Line

3 DESCRIPTION OF THE ENVIRONMENT

3.1 Physical Environment

The project site is located along Wahikuli Terrace Park Access Road, Malo Street, and Honoapiilani Highway in Lahaina, Maui. It consists of TMKs (2)4-5-014:077, (2)4-5-021:007, (2)4-5-021:025, (2)4-5-030:015, (2)4-5-030:137, and (2)4-5-030:138.

3.1.1 Climate

Temperatures in the vicinity of the project area average approximately 75-degrees Fahrenheit (*University of Hawaii, Climate Data Portal, 2026*). The annual average rainfall is approximately 14.1 inches with a low of approximately 0.3 inches in September and approximately 2.7 inches in December (*University of Hawaii, Rainfall Atlas of Hawaii, 2026*).

3.1.2 Topography

Maui is made up of two volcanoes, West Maui Volcano and East Maui Volcano (Haleakala). An isthmus connects the two volcanoes; this area is referred to as Central Maui. The proposed project is in West Maui.

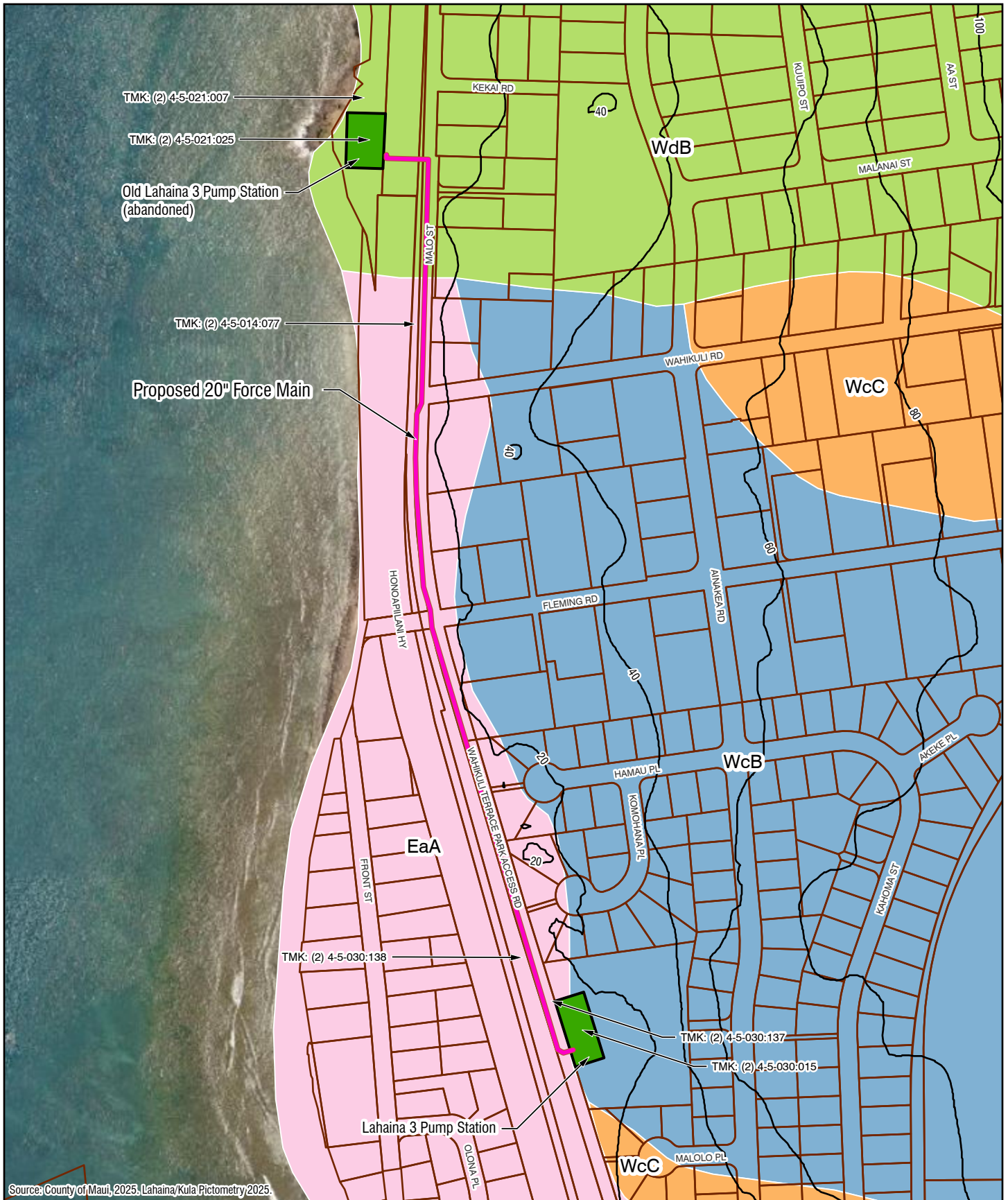
The topography throughout the project area is relatively flat with ground elevations ranging from approximately 7.2 feet to 13.1 feet mean sea level (MSL).

3.1.3 Soils

The Soil Survey of the Islands of Kauai, Oahu, Maui, Molokai, and Lanai by the United States Department of Agriculture (USDA) Soil Conservation Service (SCS), dated August 1972, and the Web Soil Survey by the USDA Natural Resources Conservation Service (NRCS) provide soil data and information. **Figure 11** shows the soil classifications for the vicinity.

The soils for the project site are classified as Ewa silty loam, 0 to 3 percent slopes (EaA); and Wahikuli very stony silty clay, 3 to 7 percent slopes (WdB).

- Ewa silty clay loam, 0 to 3 percent slopes (EaA): The Ewa series consists of well-drained soils. Runoff is very slow and the erosion hazard is no more than slight.
- Wahikuli silty clay, 3 to 7 percent slopes (WdB): The Wahikuli series consists of well-drained soils. Permeability is moderate. Runoff is slow and the erosion hazard is slight.



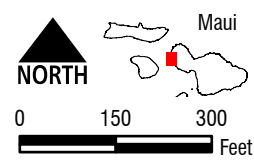
TMK: (2) 4-5-021:007
 TMK: (2) 4-5-021:025
 Old Lahaina 3 Pump Station
 (abandoned)

TMK: (2) 4-5-014:077
 Proposed 20" Force Main

TMK: (2) 4-5-030:138

TMK: (2) 4-5-030:137
 TMK: (2) 4-5-030:015

Lahaina 3 Pump Station



- Legend:**
- New FM No. 3
 - Parcel Lines
 - Contour Line
 - EaA: Ewa silty clay loam, 0 to 3 percent slopes
 - WcB: Wahikuli stony silty clay, 3 to 7 percent slopes
 - WcC: Wahikuli stony silty clay, 7 to 15 percent slopes
 - WdB: Wahikuli very stony silty clay, 3 to 7 percent slopes

Lahaina Force Main No. 3 Replacement
 Environmental Assessment
**SOIL AND
 ELEVATION MAP**
 FIGURE 11

3.1.4 Agriculture

The University of Hawaii, Land Study Bureau (LSB)'s Detailed Land Classification – Island of Oahu, dated 1972, classifies non-urban lands into five categories based on their soil properties and capabilities for agricultural productivity. The categories were assigned letters “A” through “E” in order of highest to least productivity. See **Figure 12**. The project area is entirely within state Urban land and therefore is not associated with a LSB category.

In 1977-1978, the State of Hawaii Department of Agriculture (DOA), with assistance from the USDA SCS and the University of Hawaii, College of Tropical Agriculture, developed a classification system to identify Agricultural Lands of Importance to the State of Hawaii (ALISH). The ALISH classification system is based primarily on soil characteristics and consists of three classes: Prime Agricultural Land, Unique Agricultural Land, and Other Agricultural Land. While these classifications identify the long-term implications of land use options for production of food, feed, forage, and fiber crops, they are not land use designations. The following lands were not considered for ALISH classification: 1) Developed urban land over 10 acres, 2) Natural or artificial enclosed bodies of water over 10 acres, 3) Forest reserves, 4) Public use lands, 5) Lands with slopes in excess of 35%, and 6) Military installations, except undeveloped areas over 10 acres. See **Figure 12**. The project area is entirely within lands not considered for classification.

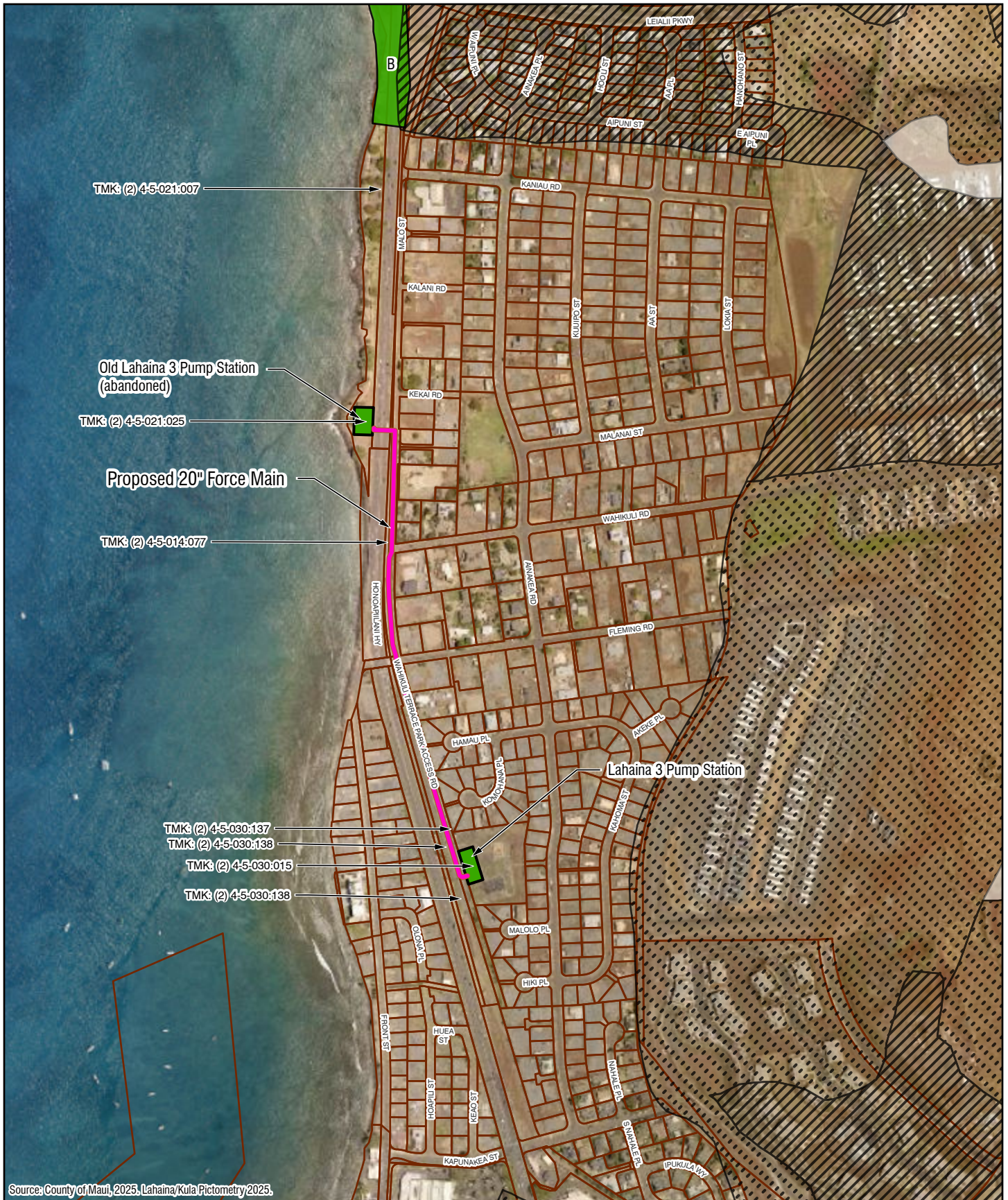
3.1.5 Flora and Fauna

The project site has been developed and is currently used as public roadways, Malo Street and Honoapiilani Highway, or access roads, Wahikuli Terrace Park Access Road.

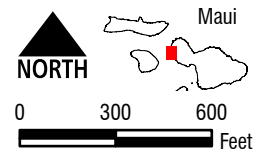
Research of flora and fauna consisted of reviewing available information on the State of Hawaii, Department of Health's Office of Environmental Quality Control, Online Library of Environmental Assessments and Environmental Impact Statements. The *Final Environmental Assessment, Lahaina Wastewater Pump Station 3 and Related Improvements* dated 1994 and the *Final Environmental Assessment and Finding of No Significant Impact, Wahikuli Subdivision Gravity Sewer System* dated 2025 contained information on the project site. The *Final Environmental Assessment, West Maui Recycled Water System* dated 2021 contained information near the project site.

The United States Fish and Wildlife Service (USFWS), Pacific Islands Fish and Wildlife Office (PIFWO) were contacted during preparation of this environmental assessment. In their early consultation responses that are included in **Appendix A**, they provided information on endangered species that were identified by USFWS Information for Planning and Consultation (IPaC).

Table 6 lists the federally endangered plant species that could potentially occur within the project area. There are no designated critical habitats for listed plant species in the project area.



Source: County of Maui, 2025, Lahaina/Kula Pictometry 2025.



Legend:

- New FM No. 3
- Parcel Lines

ALISH

- Prime Agricultural Lands
- Unique Agricultural Lands
- Other Agricultural Lands
- Unclassified

LSB

- A: Highest Productivity Rating
- B
- C
- D
- E: Lowest Productivity Rating

Lahaina Force Main No. 3 Replacement
Environmental Assessment
**AGRICULTURAL LAND
CLASSIFICATION MAP**

FIGURE 12

Table 6. Federally and State Listed Endangered Plant Species

Plant Species	Status
'ena'ena	Endangered
Awiwi	Endangered
Carter's Panicgrass	Endangered
Dwarf Naupaka	Endangered
Ihi	Endangered
Ohai	Endangered
Round-leaved Chaff-Flower	Endangered

A majority of the trenching work for the proposed force main would not affect listed flora because the work would be located in existing roadways. There are some grassed areas, adjacent to the roadways, within the project area and will be subject to the following measures. The mitigation measures for flora are based on the Avoidance, Minimization, and Conservation Measures for Listed Plants provided by the Fish and Wildlife Service and the following recommendations are provided:

- Minimize disturbance outside of existing developed or otherwise modified areas
- For disturbance outside existing developed or otherwise modified areas, conduct a survey for listed plants
- Boundary area of listed plants should be marked with flagging and adhere to recommended buffer distances

The following State listed and/or federally listed animal species have the potential to occur or transit through the vicinity of the proposed project area:

- Hawaiian hoary bat ('ōpe'ape'a)
- Hawaiian seabirds, including the Hawaiian petrel ('ua'u), band-rumped storm-petrel ('akē'akē), and Newell's shearwater ('a'o)
- Hawaiian goose (nēnē)
- Hawaiian waterbirds, including the Hawaiian stilt (ae'o), Hawaiian coot ('alae ke'oke'o), and Hawaiian duck
- Blackburn's sphinx moth
- Sea turtles, including the Green sea turtle and the Hawksbill sea turtle

Hawaiian hoary bat

The Hawaiian hoary bat roosts in both exotic and native woody vegetation and will leave their young unattended in trees and shrubs when they forage. If trees or shrubs 15 feet or taller are cleared during the pupping season (June 1 through September 15), there is a risk that young bats could inadvertently be harmed or killed, since they are too young to fly or move away from disturbance. Hawaiian hoary bats forage for insects from as low as 3 feet to higher than 500 feet above ground and can become entangled in barbed wire fencing.

The following general best management practice (BMP) recommendations are provided:

- Do not disturb, remove, or trim woody plants greater than 15 feet tall during the bat birthing and pup rearing season (June 1 through September 15).
- Do not use barbed wire for fencing.

Hawaiian seabirds

Hawaiian seabirds may traverse the project area at night during the breeding, nesting, and fledging seasons (March 1 to December 15). Outdoor lighting could result in seabird disorientation, fallout, and injury or mortality. Seabirds are attracted to lights and after circling the lights, they may become exhausted and collide with nearby wires, buildings, or other structures or they may land on the ground. Downed seabirds are subject to increased mortality due to collision with automobiles, starvation, and predation by dogs, cats, and other predators. Young birds (fledglings) traversing the area between September 15 and December 15 on their first flights from their mountain nests to the sea are particularly vulnerable to light attraction.

The following general BMP recommendations are provided:

- Fully shield all outdoor lights so the bulb can only be seen from below.
- Install automatic motion sensor switches and controls on all outdoor lights or turn off lights when human activity is not occurring in the lighted area.
- Avoid nighttime construction during the seabird fledging period (September 15 through December 15)

Hawaiian goose

Hawaiian geese may be observed in a variety of habitats, but prefer open areas, such as pastures, golf courses, wetlands, natural grasslands and shrublands, and lava flows. Threats to species include introduced mammalian and avian predators, wind facilities and vehicle strikes. The following general BMP recommendations are provided.

- Do not approach, feed, or disturb Hawaiian geese.
- If Hawaiian geese are observed loafing or foraging within the project area during breeding season (September through April), halt work and have a biologist survey for nests in and around the project areas prior to the resumption of any work. Repeat surveys again within 3 days of project initiation and after any subsequent delay of work of 3 or more days (during which birds may attempt to nest).
- Cease all work immediately and contact PIFWO for further guidance if a nest is discovered within a radius of 150 feet of proposed work, or if a previously undiscovered nest is found within said radius after work begins.
- In areas where Hawaiian geese are known to be present, post and implement reduced speed limits, and inform project personnel and contractors about the presence of threatened species on-site.

Hawaiian waterbirds

Hawaiian waterbirds can be found in wetland habitats including freshwater marshes, ponds, estuaries, reservoirs, irrigation ditches, ponds, and streams. Construction projects that result in

standing water or open water may attract Hawaiian waterbirds. Hawaiian waterbirds that are attracted to sub-optimal habitat may suffer adverse impacts, such as predation and reduced reproductive success. The following general BMP recommendations are provided:

- Have a biological monitor conduct Hawaiian waterbird nest surveys where appropriate habitat occurs prior to project initiation. Repeat surveys again within 3 days of project initiation and after subsequent delay of work 3 or more days (during which birds may attempt to nest). If nest or active brood is found:
 - Contact Pacific Islands Fish and Wildlife Office (PIFWO) within 48 hours for further guidance.
 - Establish and maintain a 100-foot buffer around all active nests and/or broods until the chicks/ducklings have fledged. Do not conduct potentially disruptive activities or habitat alteration within this buffer.
 - Have a biological monitor present during construction activities until the chicks/ducklings fledge.
- In areas where waterbirds are known to be present, post and implement reduced speed limits, and inform project personnel and contractors about the presence of endangered species on site.

Blackburn's sphinx moth

The Blackburn's sphinx moth larvae feed on non-native tree tobacco (*Nicotiana glauca*) which grows in disturbed soil and native aiea (*Nothoecstrum*). To pupate, the larvae borrow into the soil and can remain in a state of torpor for a year or more before emerging from the soil. Soil disturbance can result in death of the pupae.

It is recommended that a vegetation survey be performed early in the project development phase to determine if tree tobacco is present on the project site. This vegetation survey could be performed by staff provided with picture placards of tree tobacco at different life stages.

Tree tobacco over 3 feet tall may become a host plant for Blackburn's sphinx moth. Tree tobacco can grow more than 3 feet in approximately 6 weeks. If tree tobacco is discovered, a survey for tree tobacco, aiea, adults, eggs, larvae, and signs of larval feeding shall be conducted by a biologist familiar with the species. To avoid attracting Blackburn's sphinx moth to the project site, the following general BMP recommendations are provided:

- Perform initial surveys during wettest portion of the year (usually November-April or several weeks after a significant rain event) and 4-6 weeks prior to construction
- If surveys determine the presence of tree tobacco, aiea, adults, eggs, or larvae, contact the USFWS for additional guidance to avoid impact to this species.
- Remove any tree tobacco less than 3 feet tall
- Monitor the site every 4-6 weeks for new tree tobacco growth before, during, and after the proposed ground-disturbing activity

Sea turtles

Green sea turtles may nest on any sandy beach area in the Pacific Islands. Hawksbill sea turtles exhibit a wide tolerance for nesting substrate (ranging from sandy beaches to crushed coral) with nests typically placed under vegetation. Both species exhibit strong nesting site fidelity. Nesting occurs on Hawaiian beaches from May through September, peaking in June and July, with hatchlings emerging through November and December.

The proposed project does not include construction activities on beaches and along rocky shorelines where sea turtles could be present.

The following general BMP recommendations are provided:

- No vehicle use on, or modification of, beach/dune environment during the sea turtle nesting or hatching season, or on beaches where sea turtles are known to bask.
- Do not remove or destroy native dune vegetation.
- Incorporate applicable Best Management Practices for Work in Aquatic Environments into the project design.
- Have a biologist familiar with sea turtles conduct a visual survey of the project site to ensure no basking sea turtles are present.
 - If a basking sea turtle is found within the project area, cease all mechanical or construction activities within 100 feet until the animal voluntarily leaves the area.
 - Cease all activities between the basking sea turtle and the ocean.
- Remove any project-related debris, trash, or equipment from the beach or dune if not actively being used.
- Do not stockpile project-related materials in the intertidal zone, reef flats, or stream channels.

Predators and invasive species

Construction sites could attract nonnative predators and taking action to minimize predator presence, such as removing cats, placing bait stations for rodents and mongoose, and providing covered trash receptacles is recommended.

Recommendations to mitigate the spread of invasive species include minimizing the movement of plant and soil material between worksites, and cleaning equipment, materials, and personnel of excess soil and debris.

3.1.6 Hydrology

Ground Water

The State Water Code (HRS Chapter 174C) was enacted in 1987 to protect and manage Hawaii's surface and ground water resources. The State Water Code called for the establishment of a Commission on Water Resource Management (CWRM) to administer the code. CWRM established ground water hydrologic units to provide a consistent basis for managing ground water resources. Each island was divided into aquifer sectors, and each aquifer sector was subdivided into aquifer systems. The proposed project is in the Honokowai Aquifer System within the Lahaina Aquifer Sector. CWRM also establishes the sustainable yield for each aquifer system. Sustainable yield is defined as the maximum rate at which water may be withdrawn from a water source without impairing the utility or quality of the water source as determined by the commission. The sustainable yield of the Honokowai Aquifer System is 6 mgd.

Surface Water

CWRM established surface water hydrologic units to provide a consistent basis for managing surface water resources. The proposed project is in the Kahoma Surface Water Hydrologic Unit.

Surface water features identified by the U.S. Geological Survey (USGS)'s National Hydrography Dataset (NHD) and the State of Hawaii DOH's Water Quality Map are shown on **Figure 13**. The nearest surface water in the vicinity is the Wahikuli Stream and is located approximately 1,700 feet north of the project area.

Wetlands

Wetlands are generally defined as those areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. There are no wetlands in the vicinity of the project site.

Coastal Waters

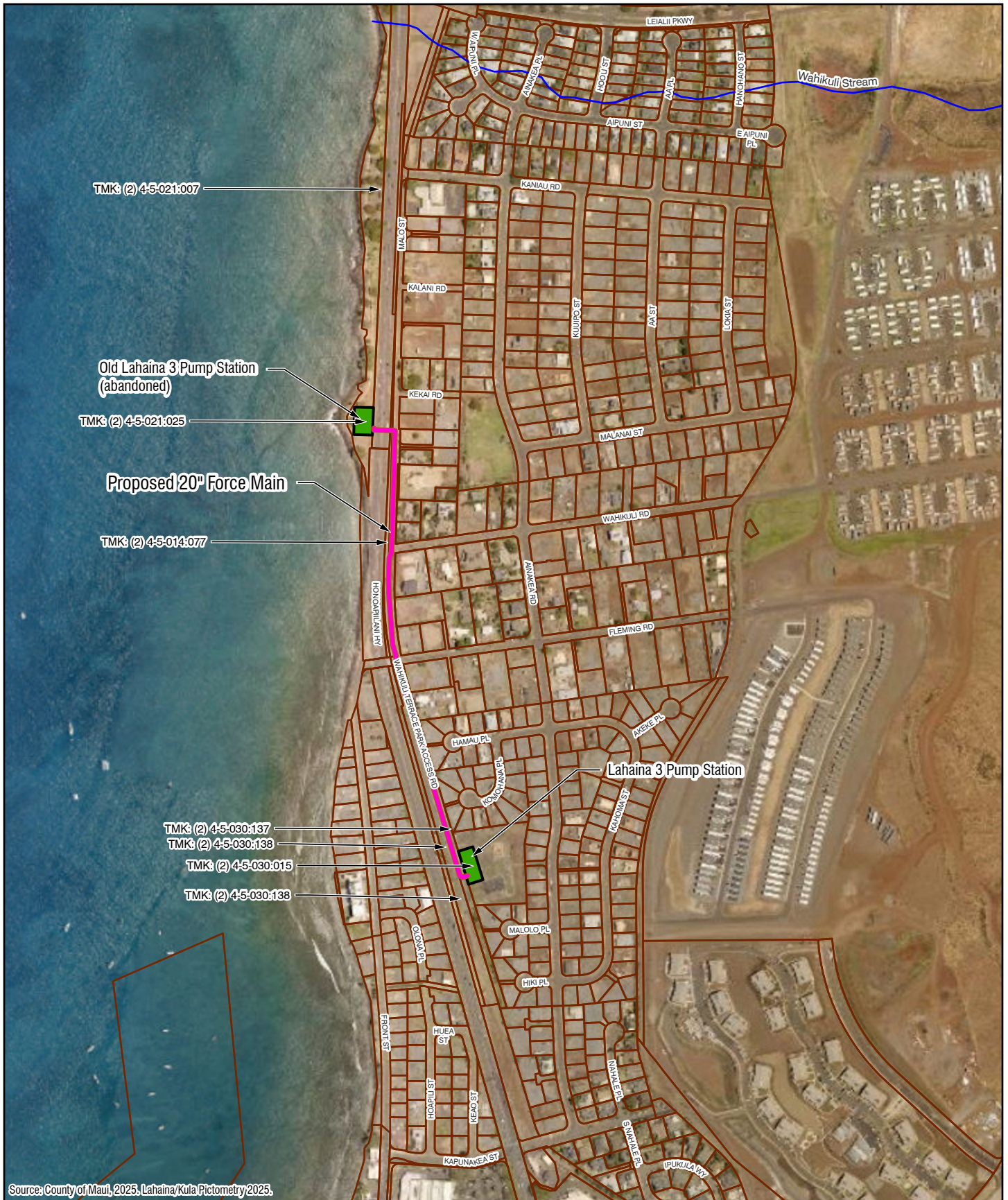
The coastal waters makai of the proposed project are classified as Class A by DOH (*DOH, 2026*) and are on the Clean Water Act 303(d) list of impaired waters (*DOH, 2024*).

3.2 Historical and Archaeological Sites

The Department of Land and Natural Resources (DLNR), State Historic Preservation Division (SHPD) includes three branches, History and Culture, Archaeology, and Architecture. SHPD maintains the Hawaii Register of Historic Places, which recognizes districts, sites, structures, buildings, and other objects in Hawaii's history, architecture, archaeology, engineering, and culture. The National Park Service (NPS) maintains the National Register of Historic Places, which includes significant properties nominated by State and Federal agencies, historic areas in the National Park System, and all National Historic Landmarks. The project site is not listed on the Hawaii Register of Historic Places or the National Register of Historic Places.

Research on the affected TMK's were also conducted by reviewing available information from the State of Hawaii, Department of Health's Office of Environmental Quality Control, Online Library of Environmental Assessments and Environmental Impact Statements. The *Final Environmental Assessment, Lahaina Wastewater Pump Station 3 and Related Improvements*, dated 1994, and the *Final Environmental Assessment and Finding of No Significant Impact, Wahikuli Subdivision Gravity Sewer System*, dated 2025, contained information on the project site. One item, State Inventory of Historic Places (SIHP) Site 50-50-03-08887, the Lahaina, Kaanapali & Pacific railroad, was identified as a historic property that was also within the Lahaina Force Main No. 3 Replacement project site. The proposed force main will cross the railroad as the force main turns from Malo Street to Honoapiilani Highway. The railroad will be temporarily removed during construction and will be restored to its original condition upon completion of the work. Therefore, there will be no permanent impact on the railroad.

The force main alignment is generally located within roadway areas including Wahikuli Terrace Access Road, Malo Street, and Honoapiilani Highway, and there are no reports of subsurface historic resources within the project area. The project will include archaeological monitoring requirements when conducting ground disturbing activity. In the unlikely event that subsurface historic resources, including human skeletal remains, structural remains, cultural deposits, artifacts, sand deposits, or sink holes are identified during the demolition and/or construction work, the Contractor shall cease work in the immediate vicinity of the find, protect the find from additional disturbance, and contact SHPD.



TMK: (2) 4-5-021:007

Old Lahaina 3 Pump Station
(abandoned)

TMK: (2) 4-5-021:025

Proposed 20" Force Main

TMK: (2) 4-5-014:077

TMK: (2) 4-5-030:137

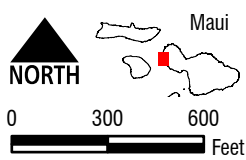
TMK: (2) 4-5-030:138

TMK: (2) 4-5-030:015

TMK: (2) 4-5-030:138

Lahaina 3 Pump Station

Lahaina Force Main No. 3 Replacement
Environmental Assessment
**SURFACE
WATER MAP**
FIGURE 13



Legend:
█ New FM No. 3 █ Stream / River
 Parcel Lines

3.3 Social and Cultural Environment

3.3.1 Population

The 2030 Socio-Economic Forecast by the Planning Department (*COM, 2006*) is based on projections by the State of Hawaii Department of Business and Economic Development & Tourism (DBEDT) and allocates the anticipated countywide changes to local areas. The projected population for West Maui is shown in **Table 7**.

Table 7. Projected Resident Population by Year

2020	2025	2030
31,410	33,743	36,058

3.3.2 Economy

According to the West Maui Community Plan, there is a high concentration of jobs related to the visitor industry. Strengthening and diversifying the economy has been a common goal for many years. Yet, Maui County's economy continues to be more dependent on tourism than any other county in the State. Agriculture has historically been a major industry for the County of Maui. However, plantations in the vicinity of the project area have ceased production, and the agricultural fields lay fallow.

3.3.3 Cultural Resources

The project site has been developed and generally used as an access roadway and public roadways. The surrounding areas have been developed and is used as residential housing. The project sites are not listed on the Hawaii Register of Historic Places or the National Register of Historic Places. However, a review of relevant environmental assessments indicated one item, SIPH Site 50-50-03-08887, the Lahaina, Kaanapali & Pacific railroad as a historic site. The railroad will be temporarily removed during construction and will be restored to its original condition upon completion of the work. Therefore, there will be no permanent impact on the railroad.

The force main alignment is generally located within roadway areas including Wahikuli Terrace Access Road, Malo Street, and Honoapiilani Highway, and there are no reports of subsurface historic resources within the project area. In the unlikely event that subsurface historic resources, including human skeletal remains, structural remains, cultural deposits, artifacts, sand deposits, or sink holes are identified during the demolition and/or construction work, the Contractor shall cease work in the immediate vicinity of the find, protect the find from additional disturbance, and contact SHPD.

4 PROBABLE IMPACTS AND MITIGATIVE MEASURES

4.1 Short-Term Impacts

Short-term impacts are associated with the construction activities at the project site. The impacts are not anticipated to be significant and will be controlled and minimized by laws and regulations, best management practices, permit requirements, and construction monitoring.

4.1.1 Noise

Construction work, machinery operation, and truck traffic will generate temporary noise. The Contractor will be required to comply with HAR Chapter 11-46, "Community Noise Control." HAR Chapter 11-46 sets maximum permissible sound levels. An approved Community Noise Permit may be required if construction noise exceeds the maximum level and has a total cost of more than \$250,000 (based on the value of the building permit). Normal construction work hours will be during the hours of 7:00 AM to 3:30 PM Monday through Friday, and if needed, weekend work may be allowed as approved by COM. Certain construction equipment, such as pile drivers, hydraulic hammers, and jack hammers, shall be restricted to 9:00 AM to 5:30 PM, Monday through Friday. Construction exceeding the maximum permissible sound levels outside of these hours will require a Community Noise Variance. Permits and variances required from the DOH Indoor and Radiological Health Branch would be obtained by the Contractor prior to construction.

4.1.2 Air Quality

Potential short-term impacts on air quality will be mitigated by BMPs. Fugitive dust and exhaust from construction vehicles and equipment traffic and earthmoving activities will be minimized by appropriate BMPs such as regular water sprinkling, particularly during earthwork, limiting vehicle and equipment speeds over unpaved surfaces, protecting stockpiles of excavated material, and proper maintenance of machinery and vehicles.

4.1.3 Traffic

Temporary impacts to traffic will occur during construction of the Lahaina Force Main No. 3 Replacement project. A majority of the proposed FM will be located along Malo Street and Wahikuli Terrace Park Access Road, with a portion crossing Honoapiilani Highway.

The most significant short-term impacts are expected to occur when the force main is installed across Honoapiilani Highway. Permits to perform work within the State Right-of-Way will be obtained as necessary. The State Department of Transportation may require work within Honoapiilani Highway to be performed at night to minimize traffic impacts.

Construction work to trench, install piping, and repave along Malo Street and Wahikuli Terrace Park Access Road will have an impact to traffic on nearby residents and businesses. The increase in traffic will be temporary and will be minimized by implementation of traffic control measures including required signage. Trench excavations will be covered at the end of each day, and flagmen or policemen will be stationed to direct traffic on the roads as deemed necessary. The potential inconveniences will be short-term. Efforts will be made to ensure safety and to promptly address

concerns during the construction process. These traffic control measures will also apply to work in Honoapiilani Highway.

4.1.4 Night Work

As discussed in **Section 4.1.3**, some work may occur within Honoapiilani Highway at night in order to minimize traffic impacts. Night work may also occur during connection of the force main to existing piping. Lowest wastewater flow occurs during the night and connection work at these hours will minimize the potential for wastewater spills. Night work can negatively affect seabirds, which are nocturnal and can be disoriented by artificial lights. Responsible lighting practices (downward facing, shielded lights) shall be implemented to minimize disturbance to nocturnal birds. If night work is required, the lighting to be utilized shall only be the existing school and stadium lighting and shall comply with Maui County Code Chapter 20.35 on Outdoor Lighting.

4.1.5 Erosion

The proposed project includes earth-disturbing activities. Erosion control measures will be implemented.

A COM grading permit will need to be obtained for the proposed project. The COM grading permit requires compliance with Maui County Code Chapter 20.08. One of the chapter's requirements is that all grading, grubbing, and stockpiling activities provide BMPs to the maximum extent practicable to prevent damage by sedimentation to streams, watercourses, natural areas, and the property of others. BMPs may include clearing only areas essential for construction, installing and maintaining erosion control barriers, and stabilized open areas.

The project shall comply with HAR Chapter 11-54 "Water Quality Standards" and Chapter 11-55 "Water Pollution Control." In compliance with HAR Chapter 11-55, a National Pollution Discharge Elimination System (NPDES) permit will be obtained if the total disturbed area exceeds one acre.

4.2 Long-Term Impacts

Long-term impacts are generally those impacts that are anticipated due to operation of the wastewater collection system. The proposed project was initiated to benefit the environment and community by replacing an aging sewer force main. Most significant long-term impacts are therefore anticipated to be positive.

4.2.1 Water Quality

Several ordinances, rules, and permit requirements regulate developments with regards to their impact on storm water. A COM grading permit will need to be obtained for the proposed project.

In accordance with the grading permit, the drainage pattern with respect to adjoining, downstream, and surrounding properties will not be altered. The proposed project is anticipated to have no significant adverse effects on surrounding properties. The following are examples of measures that will be taken to comply with the regulations and recommendations mentioned above and to mitigate the proposed project's effect on the environment to the extent practicable:

- Minimize impervious surfaces
- Stabilize all areas disturbed by the project with gravel or landscaping.
- Install erosion control products prior to grading or grubbing work.

The proposed project shall comply with the ordinances, rules, and permit requirements regarding water quality, and therefore, the proposed project is not anticipated to have a negative impact on water quality.

4.2.2 Visual Impacts

The project is a force main that will be installed underground with the disturbed surface being restored to original conditions. Therefore, the proposed project will not have any significant visual impact.

4.2.3 Historical, Archaeological, and Cultural Impacts

The project site has been developed and generally used as an access roadway and public roadways. The surrounding areas have been developed and is used as residential housing. Review of relevant environmental assessments indicated one item, SIPH Site 50-50-03-08887, the Lahaina, Kaanapali & Pacific railroad as a historic site. A section of the railroad will be temporarily removed during construction for installation of the force main and will be restored to its original condition upon completion of the work. Therefore, there will be no permanent impact on the railroad.

There are no reports of subsurface historic resources within the project area. In the unlikely event that subsurface historic resources, including human skeletal remains, structural remains, cultural deposits, artifacts, sand deposits, or sink holes are identified during the demolition and/or construction work, the Contractor shall cease work in the immediate vicinity of the find, protect the find from additional disturbance, and contact SHPD.

4.2.4 Public Health and Safety

Before construction, the contractor will implement traffic control plans as discussed in **Section 4.1.3**. Therefore, the project will not result in any long-term impact for fire protection services, police services, and healthcare emergency services.

4.2.5 Utilities

The project is to install a sewer force main and will improve the long term reliability of the wastewater collection system.

Other utility services including water, irrigation, power, and telecom are not anticipated to be affected by the project.

4.3 Secondary Impacts

4.3.1 Population Growth

Secondary growth impacts are not anticipated as a result of this project. Development of the surrounding areas is independent of the proposed project.

4.3.2 Public Facilities

Police Protection

The nearest police station to the project site is the Lahaina Police Station at 1850 Honoapiilani Highway in Lahaina. It is located approximately 1 mile north of the project site.

As discussed in **Section 4.1.3**, temporary traffic controls will be implemented to minimize traffic impacts. Services of a police officer may be obtained by the contractor to direct traffic as part of the temporary traffic control effort. Impacts to police protection services is anticipated to be temporary and cease with the conclusion of the project construction.

Fire Protection

The nearest fire station to the project site is the Lahaina Fire Station at 1860 Honoapiilani Highway in Lahaina. It is located approximately 1 mile north of the project site.

As discussed in **Section 4.1.3**, it is not anticipated that there will be significant long-term impacts on traffic flow, therefore, fire protection services should not be affected.

4.4 Cumulative Impacts

The proposed project will be an integral part of the wastewater collection system that transports wastewater to the Lahaina Wastewater Reclamation Facility. Continued operation of the wastewater collection system provides a beneficial public service. This project promotes proper management by replacing aging infrastructure to improve operational reliability. The force main will be installed underground with the disturbed surface being restored to original condition. The proposed project is not anticipated to have a substantial adverse impact when considered together with past actions, and the proposed project is not anticipated to trigger additional future actions in the area. Therefore, the proposed project is not anticipated to have a substantial adverse cumulative impact.

5 ALTERNATIVES TO THE PROPOSED ACTION

5.1 No Action

Under the No Action alternative, the existing force main would continue to be used as part of the wastewater collection system. The existing force main, which was built in 1997, is nearing the end of its useful life and would continue to age. Continued use of the aging force main could eventually lead to a break in the sewer force main. This condition would cause interruption of wastewater service to the public and would introduce wastewater into the environment. The release of wastewater can negatively impact public health and negatively impact surrounding waters.

The No Action alternative will maintain the status quo, and the existing force main will not be replaced. The No Action alternative would not meet the Hawaii State Plan objective of maintenance of basic public health and sanitation standards relating to treatment and disposal of solid and liquid wastes. The No Action alternative would not meet the Maui Island Plan objective of providing adequate levels of wastewater service with minimal environmental impacts. The No Action alternative would not meet the West Maui Community Plan goal of supporting improved infrastructure systems for an adaptive and resilient community.

5.2 Site Alternatives

5.2.1 Alternative 1

The existing force main extends from the Lahaina 3 Pump Station to a valve vault near the Old Lahaina 3 Pump Station. A majority of the existing force main alignment is along the southbound lanes and shoulder of the Honoapiilani Highway. One site alternative would be to install the new force main in a similar alignment, along the southbound lanes and shoulder of Honoapiilani Highway. Honoapiilani Highway is a State of Hawaii Department of Transportation Right-of-Way.

An alignment where a majority of the force main is located in COM Right-of-Way and COM owned property was available along Wahikuli Terrace Park Access Road and Malo Street. These are residential and access roadways which are significantly less traveled than a State Highway. Being in COM Right-of-Way and COM owned property will also provide easier access for construction, operation and maintenance, repair, and inspection of the FM which will be conducted by COM Department of Wastewater Management. The alignment along Wahikuli Terrace Access Road, Malo

Street, and crossing Honoapiilani Highway at the valve vault near the Old Lahaina 3 Pump Station was identified as the preferred alignment.

5.2.2 Alternative 2

The existing force main extends from the Lahaina 3 Pump Station to a valve vault near the Old Lahaina 3 Pump Station. A portion of the project site is located in the sea level rise exposure area (SLR-XA). The second site alternative would be to install the force main outside of the SLR-XA. The alignment would be along Wahikuli Terrace Access Road, turn east and along Fleming Road, turn north and along Aineakea Road, turn west and along Kainau Road, turn south and along Malo Street, and cross Honoapiilani Highway at the valve vault near the Old Lahaina 3 Pump Station. This alignment would increase the length of the force main from approximately 2,200 feet to 5,200 ft. and would have increased construction cost due to the increased length. This alignment would also have increased energy consumption from increased energy requirements for pumping through the longer force main and through higher elevations due to the more mauka alignment. Increased operational costs would also be needed to service and maintain added air relief valves along the alignment.

Relocating the force main out of the SLR-XA should be implemented as part of the overall managed retreat planning effort that could include relocation of the highway and other properties to areas not affected by sea level rise. The relocation will affect the population being served by the sewer system and could require changes including pump station relocations, force main relocations, and updated system sizing. The planning efforts for the managed retreat are not yet defined. Moving the FM as part of the overall managed retreat effort, such as when moving the highway and other major utilities would provide better results because it can be integrated with the other necessary changes. The proposed FM will serve the current public by providing wastewater service for the immediate future.

6 IRREVERSIBLE AND IRRETRIEVABLE COMMITMENTS OF RESOURCES

There are several irreversible commitments of resources including land and the financial resource to construct capital improvements, and to operate and maintain the facility. The commitment of land, labor, materials, energy, equipment and financial resources that are practically irreversible and irretrievable is warranted to achieve the long-term commitment to promoting basic and sanitation standards, and providing adequate wastewater service with minimal environmental impacts.

7 DETERMINATION

In accordance with HAR Section 11-200.1-13, the potential effects of the proposed project are evaluated for the Thirteen Administrative Criteria for Significance as summarized below:

1. Irrevocably commit a natural, cultural, or historic resource:

One item, SIPH Site 50-50-03-08887, the Lahaina, Kaanapali & Pacific railroad is a historic site. The railroad is currently not in use. A section of the railroad will be temporarily removed to allow for installation of the force main and will be restored to original condition upon completion of the work. No other natural, cultural, or historic resources were identified in or are anticipated to be affected by the proposed project. The proposed project is therefore not expected to irrevocably commit any natural, cultural, or historic resource.

2. Curtail the range of beneficial uses of the environment:

The proposed sewer force main will replace the existing aged force main. This will improve its operational reliability and reduces the chances of a force main break and accompanying wastewater spill. Short-term construction-related impacts on the environment related to water quality, air quality, and noise quality will be mitigated by the implementation of BMPs as indicated in the respective sections. The proposed project will not curtail the range of beneficial uses of the environment.

3. Conflict with the State's environmental policies or long-term environmental goals established by law:

The proposed project is in conformance with the State's environmental policies and long-term environmental goals. All permits and approvals required for the project according to State and County rules and regulations will be obtained. BMPs will be implemented to prevent degradation of the environmental conditions.

4. Have a substantial adverse impact on the economic welfare, social welfare, or cultural practices of the community and State:

The proposed project will serve to upgrade the wastewater collection system. Upgrading the system will allow continuation of providing wastewater service which is an important public service. The proposed project is not anticipated to have a substantial adverse impact on the economic welfare, social welfare, or cultural practices of the community and State.

5. Have a substantial adverse effect on public health:

Public health and safety are of the utmost importance, and measures will be taken to ensure protection. The proposed project will promote public health by upgrading the wastewater collection system which reduces the chances of wastewater spills and accompanying potential negative impact on public health. Negative impacts on public health resulting from the proposed project are not anticipated.

6. Involve adverse secondary impacts, such as population changes or effects on public facilities:

The proposed project is limited to upgrading the COM wastewater collection system. A substantial increase in population is unlikely as a result of the proposed project.

7. Involve a substantial degradation of environmental quality:

No substantial environmental degradation is anticipated. BMPs will be implemented to mitigate potential short-term impacts which may occur during construction. The project will upgrade the wastewater collection system which will reduce the chances of wastewater spills.

8. Be individually limited but cumulatively have substantial adverse effect upon the environment or involves a commitment for larger actions:

The proposed project together with past actions is not anticipated to have a substantial adverse effect upon the environment and does not involve a commitment for larger actions as discussed in **Section 4.4**. The project site is along Wahikuli Terrace Access Road, Malo Street, and crossing Honoapiilani Highway. The force main will be installed underground and the disturbed surface will be restored to its original condition.

9. Have a substantial adverse effect on a rare, threatened, or endangered species, or its habitat:

General information on state listed and/or federally listed species that have the potential to occur or transit through the vicinity of the proposed project area is provided in **Section 3.1.5**. BMP measures shall be implemented to minimize any impact, and therefore, it is anticipated that the project will not have a substantial adverse effect on a rare, threatened, or endangered species, or its habitat.

10. Have a substantial adverse effect on air or water quality or ambient noise levels:

Short term effects on air quality, water quality, and noise impacts during construction will be addressed by BMPs and by compliance with applicable permits.

11. Have a substantial adverse effect on or be likely to suffer damage by being located in an environmentally sensitive area such as a flood plain, tsunami zone, sea level rise exposure area, beach, erosion-prone area, geologically hazardous land, estuary, fresh water or coastal waters:

The proposed FM will be located in Flood Zone AE, which is subject to inundation by a 1% annual chance flood and is considered flood fringe area, and Flood Zone X, which is in an area outside the 0.2% annual chance floodplain. A portion of the proposed project is also within the 3.2 feet sea level rise exposure area due to projected annual high wave events. The entire project area is within the Tsunami Evacuation Zone. However, as discussed in **Sections 2.6** and **2.7**, the proposed force main will be installed below ground and risk of damage from floods, sea level rise, or tsunami is not anticipated.

The proposed FM is located within the SMA. However, as discussed in **Section 2.9**, the project is to install an underground force main which is not anticipated to require an SMA permit.

Portions of the proposed FM are located within the shoreline setback area. The project will require an Approval of Structures and Activities within the shoreline setback or will require a Shoreline Setback Variance. In these cases, the project remains to install an underground force main and damage due to its location in the shoreline setback area is not anticipated.

Portions of the proposed FM are located within the SLR-XA. An alternative alignment to relocate the FM to be outside of the SLR-XA was assessed. The alternative alignment would increase the length of the FM and would be located at higher elevations. This would result in increased construction cost and increased operation cost from additional energy requirements to pump through the extended FM at higher elevation. Relocation of the force main out of the SLR-XA should be implemented as part of the overall managed retreat planning effort, that could include relocation of the highway and other properties to areas not affected by sea level rise, so that the relocation can be integrated with the other necessary changes.

12. Have a substantial adverse effect on scenic vistas and view planes, during day or night, identified in county or state plans or studies:

The proposed improvements will be installed below ground and will not have adverse visual impacts.

13. Require substantial energy consumption or emit substantial greenhouse gases:

The proposed project will involve minimal change energy consumption and will not produce substantial greenhouse gases.

This Environmental Assessment has determined that the proposed project will not have significant impact on the environment, and an Environmental Impact Statement is therefore unwarranted. It is expected that an Anticipated Finding of No Significant Impact (AFONSI) will be issued for the proposed project.

8 LIST OF PERMITS AND APPROVALS

The following list of permits and approvals are anticipated to be required for the proposed project:

State of Hawaii

1. National Pollutant Discharge Elimination System (NPDES), Notice of General Permit Coverage (NGPC).
2. Disability and Communication Access Board (DCAB) Document Review.
3. Chapter 6E-8 Historic Preservation Review.
4. Community Noise Permit, if applicable.

5. Department of Transportation, Permit to Perform Work Upon State Highways (for work in Honoapiilani Highway)

County of Maui

1. Grading Permit.
2. Special Flood Hazard Area Development Permit
3. Approval of Structures and Activities within the Shoreline Setback or Shoreline Setback Variance, as applicable.

9 CONSULTED PARTIES

An Early Consultation Letter was sent to various agencies and interest parties for the opportunity to provide preliminary comments prior to completing the Draft Environmental Assessment. The agencies and parties are listed below. Comments received and responses provided are incorporated in **Appendix A**.

Federal Agencies

U.S. Army Corps of Engineers, Honolulu District, Regulatory Branch

U.S. Department of Agriculture, Natural Resources Conservation Service, Pacific Islands Area

U.S. Department of the Interior, Fish and Wildlife Service, Pacific Islands Fish and Wildlife Office

State Agencies

Department of Accounting and General Services

Department of Agriculture and Biosecurity

Department of Business, Economic Development, and Tourism, Office of Planning and Sustainable Development

Department of Education

Department of Hawaiian Home Lands

Department of Health

Department of Health, Environmental Management Division

Department of Health, Environmental Management Division, Clean Air Branch¹

Department of Health, Environmental Management Division, Clean Water Branch¹

Department of Health, Environmental Management Division, Safe Drinking Water Branch¹

Department of Health, Environmental Management Division, Solid and Hazardous Waste Branch¹

Department of Health, Environmental Management Division, Wastewater Branch

Department of Land and Natural Resources, Land Division

¹ Standard comments were consulted. DOH standard comments are intended to help applicants, consultants, and agencies to better prepare land use planning documents, such as Environmental Assessments.

Department of Land and Natural Resources, Maui Lanai Island Burial Council
Department of Land and Natural Resources, State Historic Preservation Division
Department of Transportation
Department of Transportation, Maui Highways Division
Office of Hawaiian Affairs

County of Maui Agencies

Council of the Maui County
Department of Environmental Management
Department of Fire and Public Safety
Department of Parks and recreation
Department of Public Works
Department of Transportation
Department of Water Supply
Planning Department
Police Department

Other Individuals/Organizations

University of Hawaii, Water Resources Research Center
West Maui Preservation Association
West Maui Taxpayers Association
Hawaiian Electric Company
Hawaiian Telco

10 REFERENCES

- 1 City and County of Honolulu, Department of Wastewater Management, July 1993. *Design Standards of the Department of Wastewater Management*.
- 2 County of Maui, *General Plan 2030, Maui Island Plan*. December 2012.
- 3 County of Maui, *West Maui Community Plan*. 2022.
- 4 State of Hawaii, *The Hawaii State Plan Revised*. 1986.
- 5 Federal Emergency Management Agency (FEMA) Flood Insurance Map (FIRM), *Map Number 1500030361F*. September 2012.
- 6 Federal Emergency Management Agency (FEMA) Flood Insurance Map (FIRM), *Map Number 1500030353F*. September 2012.
- 7 Hawaii Climate Change Mitigation and Adaptation Commission, *Hawaii Sea Level Rise Vulnerability and Adaptation Report*. 2017.
- 8 Hawaii Climate Change Mitigation and Adaptation Commission, *Hawaii Sea Level Rise Vulnerability and Adaptation Report*. 2022 Update.
- 9 State of Hawaii, Department of Land and Natural Resources, State Historic Preservation, *Nominated and Listed Properties on the Hawaii and National Registers of Historic Places*. Updated December 11, 2025.
- 10 County of Maui, Department of Environmental Management, *Final Environmental Assessment and Finding of No Significant Impact, Wabikuli Subdivision Gravity Sewer System*. June 2025.
- 11 County of Maui, Department of Public Works and Waste Management, *Final Environmental Assessment, Lahaina Wastewater Pump Station 3 and Related Improvements*. August 1994.
- 12 University of Hawaii, *Hawaii Climate Data Portal*. <https://www.hawaii.edu/climate-data-portal>. January 6, 2026 (date accessed).
- 13 University of Hawaii, Geography Department, *Rainfall Atlas of Hawaii*. rainfall.geography.hawaii.edu/interactive-map. January 6, 2026 (date accessed).
- 14 County of Maui, Department of Environmental Management, *Final Environmental Assessment, West Maui Recycled Water System*. May 2021.
- 15 State of Hawaii, Department of Health. Water Quality Standards Map of the Island of Maui. https://health.hawaii.gov/cwb/files/2013/05/WQS_20140708_Maui.pdf. January 6, 2026 (date accessed).

- 16 State of Hawaii, Department of Health. *2024 State of Hawaii Water Quality Monitoring and Assessment Report: Integrated Report to the U.S. Environmental Protection Agency and the U.S. Congress*. April 2024.
- 17 U.S. Department of Agriculture, Natural Resources Conservation Services, *Web Soil Survey*.
- 18 U.S. Department of Agriculture, Soil Conservation Service, *Soil Survey, Islands of Kauai, Oahu, Maui, Molokai, and Lanai, State of Hawaii*. August 1972.
- 19 State of Hawaii, Department of Land and Natural Resources, *Flood Hazard Assessment Tool*.
- 20 County of Maui, Department of Planning. *Socio-Economic Forecast: The Economic Projections for the Maui County General Plan 2030*. June 2006.
- 21 U.S. Geological Survey, *National Hydrography Dataset*.

APPENDIX A:

Early Consultation Correspondence

Clifton Miyasaki

From: Bungcayao, Michael <michael.bungcayao@hawaiianelectric.com>
Sent: Thursday, January 15, 2026 12:27 PM
To: Clifton Miyasaki
Cc: Liu, Rouen; Wong, Dennis; Kuwaye, Kristen
Subject: Re: Draft EA for COM Lahaina Force Main No. 3 Replacement Project
Attachments: Draft EA for COM Lahaina Force Main No3 Replacement Project.pdf

External Sender - From: ("Bungcayao, Michael" <michael.bungcayao@hawaiianelectric.com>)
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Aloha Fukunaga & Associates,

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

Hawaiian Electric Company has no objections to its advancement. Please note Hawaiian Electric has existing infrastructure on or near the subject property and continued access will be necessary for the maintenance of our infrastructure.

We greatly appreciate your efforts to keep us informed throughout the planning process. As the proposed Lahaina Force Main No. 3 Replacement project progresses, we kindly ask that you continue to keep us informed.

Please do not hesitate to contact us should you have any questions or require further clarification.

MICHAEL JAY BUNGCA YAO

M: 808.970-4681
michael.bungcayao@hawaiianelectric.com

Hawaiian Electric
PO Box 2750, Honolulu, HI 96840



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upon this information is strictly prohibited. If you are not the intended recipient, please notify the sender immediately and delete this communication and destroy all copies.

Clifton Miyasaki

From: Clifton Miyasaki
Sent: Friday, January 16, 2026 4:04 PM
To: 'Bungcayao, Michael'
Cc: Liu, Rouen; Wong, Dennis; Kuwaye, Kristen
Subject: RE: Draft EA for COM Lahaina Force Main No. 3 Replacement Project

Thanks Michael,
Confirming that I received your review comments on the EA Early Consultation Letter.

Clifton Miyasaki
Fukunaga and Associates

From: Bungcayao, Michael <michael.bungcayao@hawaiianelectric.com>
Sent: Thursday, January 15, 2026 12:27 PM
To: Clifton Miyasaki <cmiyasaki@fukunagaengineers.com>
Cc: Liu, Rouen <rouen.liu@hawaiianelectric.com>; Wong, Dennis <c-dwong@hawaiianelectric.com>; Kuwaye, Kristen <kristen.kuwaye@hawaiianelectric.com>
Subject: Re: Draft EA for COM Lahaina Force Main No. 3 Replacement Project

External Sender - From: ("Bungcayao, Michael"
<michael.bungcayao@hawaiianelectric.com>)
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We greatly appreciate your efforts to keep us informed throughout the planning process. As the proposed Lahaina Force Main No. 3 Replacement project progresses, we kindly ask that you continue to keep us informed.

Please do not hesitate to contact us should you have any questions or require further clarification.

MICHAEL JAY BUNGCA YAO

M: 808.970-4681
michael.bungcayao@hawaiianelectric.com

Hawaiian Electric
PO Box 2750, Honolulu, HI 96840



Clifton Miyasaki

From: Tazminey K. Cremer-Kaalakea <Tazminey.Cremer-Kaalakea@mpd.net>
Sent: Wednesday, January 21, 2026 12:34 AM
To: Clifton Miyasaki
Subject: Early Consultation Request Lahaina Force Main No.3 Replacement Project police comments

External Sender - From: ("Tazminey K. Cremer-Kaalakea"
<Tazminey.Cremer-Kaalakea@mpd.net>)
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Aloha,

After careful review of the proposed construction for Lahaina Force Main No.3 Replacement Project, we have some concerns. While there are no significant or long-term impacts to police operations anticipated, there are concerns of traffic flow being affected. Temporary traffic control assistance and signage will need to be required during active construction. This will be required particularly where lane closures or traffic congestion may occur during the construction phase in which it will span across Honoapiilani Highway. As most of the construction will not impact major roadways, our concern specifically targets the crossing of Honoapiilani Highway as it is our major roadway and congestion of traffic will be expected.

Mahalo,

Tazminey K. CREMER
Maui Police Department
Community Police Officer
Lahaina Patrol Division
1850 Honoapiilani Hwy,
Lahaina, HI 96761
(808)463-0536

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Clifton Miyasaki

From: Clifton Miyasaki
Sent: Wednesday, January 21, 2026 8:47 AM
To: Tazminey K. Cremer-Kaalakea
Cc: Kylie A. Taketa; Juan Rivera
Subject: RE: Early Consultation Request Lahaina Force Main No.3 Replacement Project police comments

Tazminey,

Thank you for your email dated January 21, 2026, providing early consultation comments on the subject project. The project will require a temporary traffic control plan for work on all roadways including Honoapiilani Highway. The traffic control plans will include signage as needed and will be implemented to minimize traffic impacts.

We appreciate the input provided by your office and will transmit a copy of the Draft EA when published for review and comment. Should you have any questions please feel free to contact me at 808-944-1821.

Thank you
Clifton Miyasaki
Fukunaga and Associates, Inc.
1357 Kapiolani Blvd., Ste. 1530
Honolulu, HI 96814

From: Tazminey K. Cremer-Kaalakea <Tazminey.Cremer-Kaalakea@mpd.net>
Sent: Wednesday, January 21, 2026 12:34 AM
To: Clifton Miyasaki <cmiyasaki@fukunagaengineers.com>
Subject: Early Consultation Request Lahaina Force Main No.3 Replacement Project police comments

External Sender - From: ("Tazminey K. Cremer-Kaalakea"
<Tazminey.Cremer-Kaalakea@mpd.net>)
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Aloha,

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Mahalo,

Tazminey K. CREMER
Maui Police Department

Community Police Officer
Lahaina Patrol Division
1850 Honoapiilani Hwy,
Lahaina, HI 96761
(808)463-0536

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Clifton Miyasaki

From: Joe Pluta <64jpluta@gmail.com>
Sent: Friday, January 23, 2026 9:53 AM
To: Clifton Miyasaki
Subject: Early consultation request Lahaina Force Main No. 3 Replacement project

External Sender - From: (Joe Pluta <64jpluta@gmail.com>)
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Aloha Clinton. We are in receipt of your Request dated Jan 12, 2026.

We are happy to support this replacement project.

No other comments.

Warm Regards,

Joseph D Pluta

President

West Maui Taxpayers Assn.

808-283-4533

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Clifton Miyasaki

From: Clifton Miyasaki
Sent: Friday, January 30, 2026 1:14 PM
To: 'Joe Pluta'
Subject: RE: Early consultation request Lahaina Force Main No. 3 Replacement project

Joseph,
Thank you for your email dated January 23, 2026, providing early consultation comments on the subject project. We appreciate your review and response.

Thank you
Clifton Miyasaki
Fukunaga and Associates, Inc.
1357 Kapiolani Blvd., Ste. 1530
Honolulu, HI 96814

From: Joe Pluta <64jpluta@gmail.com>
Sent: Friday, January 23, 2026 9:53 AM
To: Clifton Miyasaki <cmiyasaki@fukunagaengineers.com>
Subject: Early consultation request Lahaina Force Main No. 3 Replacement project

External Sender - From: (Joe Pluta <64jpluta@gmail.com>)
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Aloha Clinton. We are in receipt of your Request dated Jan 12, 2026.

We are happy to support this replacement project.

No other comments.

Warm Regards,

Joseph D Pluta

President

West Maui Taxpayers Assn.

808-283-4533

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Clifton Miyasaki

From: Morikami, Lori <lori.morikami@doh.hawaii.gov>
Sent: Friday, January 30, 2026 10:50 AM
To: Clifton Miyasaki
Subject: Subject: DOH-WWB Response to the Lahaina Force Main No. 3 Replacement
Attachments: LUD-WWB-StandardProjectComments-2024-12-26.pdf

External Sender - From: ("Morikami, Lori"
<lori.morikami@doh.hawaii.gov>)
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Good morning Clifton Miyasaki:

Subject: Early Consultation Request
Lahaina Force Main No. 3 Replacement

Thank you for allowing us to review and comment the above subject project.

Please refer to the Standard Land Use Comments attached in pdf for your review.
Should you have any questions, please email the Planning & Design Supervisor, Mark Tomomitsu at mark.tomomitsu@doh.hawaii.gov

As this project is for the improvement of the WWPS, we have no objections. Please ensure that all wastewater plans will conform to applicable provisions of the Hawaii Administrative Rules, Chapter 11-62, "Wastewater Systems."

Mahalo,
On behalf of Jonathan Nagato, P.E., Branch Chief
Wastewater Branch, Hawaii Department of Health
Be Healthy & Safe and Be Hawaii Strong!

Mahalo,
Lori Morikami
Planner | Env. Mgmt. Div. | Wastewater Branch (PD)
Hawaii State Department of Health | Ka 'Oihana Olakino
2827 Waimano Home Road Room 207 | Pearl City | Hawaii 96782-1487
Office (808) 586-4294 | Website: <https://health.hawaii.gov/wastewater/>

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JOSH GREEN, M.D.
GOVERNOR OF HAWAII
KE KIA'ĀINA O KA MOKU'ĀINA 'O HAWAII



KENNETH S. FINK, MD, MGA, MPH
DIRECTOR OF HEALTH
KA LUNA HO'OKOLE

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

In reply, please refer to:
File:

December 26, 2024

MEMORANDUM

SUBJECT: Wastewater Branch Standard Project Comments

TO: Agencies and Project Owners

FROM: JONATHAN NAGATO, P.E., CHIEF
Wastewater Branch

This memo is provided for your information and sharing. You are encouraged to share this memo with your project partners, team members, and appropriate personnel.

The Department of Health (DOH), Wastewater Branch (WWB) will no longer be responding directly to requests for comments on the following documents (Pre-consultation, Early Consultation, Preparation Notice, Draft, Final, Addendums, and/or Supplements), including but not limited to:

- Environmental Impact Statements (EIS)
- Environmental Assessments (EA)
- Conservation District Use Applications (CDUA)
- Special Management Area Permits (SMAP)
- Special Use Permit
- Shoreline Setback Areas (SSA)

For agencies or project owners requiring DOH-WWB comments for one or more of these documents, please utilize the DOH-WWB Standard Comments below regarding your project's responsibilities to maintain proper treatment and disposal of wastewater and any necessary permitting. DOH-WWB Standard Comments are also available on the DOH-WWB website located at: <http://health.hawaii.gov/wastewater/>.

DOH-WWB Standard Comments

The following information is for agencies and/or project owners who are seeking comments regarding environmental compliance for their projects with the Hawaii Administrative Rules (HAR), Chapter 11-62. You may be responsible for fulfilling additional requirements related to our program such as Board of Water Supply's pass and no-pass zones, Safe Drinking Water Branch's underground injection control program, etc.

1. As the project will be served by the City & County of Honolulu/ County/ Private sewer system, we have no objections to the project.
2. Per HAR, Ch. 11-62 section 11-62-05, all areas of the State are critical wastewater disposal areas. All wastewater systems must conform to applicable provisions of HAR, Ch. 11-62. We do reserve the right to review the detailed wastewater plans for conformance to applicable rules. Design plans should address any effect associated with the construction of and/or discharges from the wastewater systems to any public trust, Native Hawaiian resources or the exercise of traditional cultural practices.
3. Large Capacity Cesspools (LCC):

In 1999, EPA promulgated regulations under the Safe Drinking Water Act's Underground Injection Control (UIC) Program required closure of all existing large capacity cesspools (LCC) by April 5, 2005. Under federal regulations, a large capacity cesspool is a cesspool which serves multiple residential units, serves a mixed use of a residential and non-residential activity, or for nonresidential facilities has the potential to serve 20 or more persons per day. Operation of a large capacity cesspool after this date is a violation of federal regulations and subject to enforcement and fines. If you have any questions about LCC, please contact the Region 9 LLC Coordinator at r9_lcc_coordinator@epa.gov.

Clifton Miyasaki

From: Clifton Miyasaki
Sent: Friday, January 30, 2026 1:41 PM
To: 'Morikami, Lori'
Cc: Kylie A. Taketa; Juan Rivera; Amanda Waki
Subject: RE: Subject: DOH-WWB Response to the Lahaina Force Main No. 3 Replacement

Lori,

Thank you for your email dated January 30, 2026, providing early consultation comments on the subject project including the Standard Land Use Comments that were attached. The project will comply with applicable provisions of the Hawaii Administrative Rules, Chapter 11-62, Wastewater Systems.

We appreciate the input provided by your office. Should you have any questions feel free to contact me at 808-944-1821.

Thank you
Clifton Miyasaki
Fukunaga and Associates, Inc.
1357 Kapiolani Blvd., Ste. 1530
Honolulu, HI 96814

From: Morikami, Lori <lori.morikami@doh.hawaii.gov>
Sent: Friday, January 30, 2026 10:50 AM
To: Clifton Miyasaki <cmiyasaki@fukunagaengineers.com>
Subject: Subject: DOH-WWB Response to the Lahaina Force Main No. 3 Replacement

External Sender - From: ("Morikami, Lori"
<lori.morikami@doh.hawaii.gov>)
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Good morning Clifton Miyasaki:

Subject: Early Consultation Request
Lahaina Force Main No. 3 Replacement

Thank you for allowing us to review and comment the above subject project.

Please refer to the Standard Land Use Comments attached in pdf for your review. Should you have any questions, please email the Planning & Design Supervisor, Mark Tomomitsu at mark.tomomitsu@doh.hawaii.gov

As this project is for the improvement of the WWPS, we have no objections. Please ensure that all wastewater plans will conform to applicable provisions of the Hawaii Administrative Rules, Chapter 11-62, "Wastewater Systems."

Mahalo,
On behalf of Jonathan Nagato, P.E., Branch Chief
Wastewater Branch, Hawaii Department of Health
Be Healthy & Safe and Be Hawaii Strong!

Mahalo,
Lori Morikami
Planner | Env. Mgmt. Div. | Wastewater Branch (PD)
Hawaii State Department of Health | Ka 'Oihana Olakino
2827 Waimano Home Road Room 207 | Pearl City | Hawaii 96782-1487
Office (808) 586-4294 | Website: <https://health.hawaii.gov/wastewater/>

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Clifton Miyasaki

From: Tamara A. Paltin <Tamara.Paltin@mauicounty.us>
Sent: Tuesday, February 3, 2026 12:24 PM
To: Clifton Miyasaki
Subject: Early Consultation - Lahaina Force Main No.3 Replacement Project

External Sender - From: ("Tamara A. Paltin"
<Tamara.Paltin@mauicounty.us>)

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Aloha e Ms. Miyasaki,

Mahalo for the opportunity to engage in early consultation. In reaching out to my community some of the feedback I received to date:

Why is the life span only 30 years for the pipes?

Replacement lines should be installed outside the SLR-XA and retiring County infrastructure in the coastal hazard areas a seawall will not hold back the effects of sea level rise, seawater encroaches on underground infrastructure requiring constant repairs, there's a feeling that this is not in alignment with the County's hazard mitigation plans, to promote long term resilience of the County's economic, environmental, historical and cultural resources. They don't want the County to encourage nor invest in projects that would put people in known hazard zones. Infrastructure literally sitting in seawater will require much more maintenance, monitoring and repair. It is highly likely that there will be coastal hazards within our lifetime, and it does not seem we are planning with future generations in mind with new infrastructure installation in the SLR-XA especially given consideration that 3.2 is now an outdated/conservative estimate of sea level rise by 2100 and it is not the slow steady rise of the ocean but rather stacking of catastrophic events like a storm surge on a full moon high tide with south swell that will ultimately cause problems.

Mahalo for your time and attention to this feedback,

Tamara

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Clifton Miyasaki

From: Clifton Miyasaki
Sent: Wednesday, February 18, 2026 11:21 AM
To: 'Tamara A. Paltin'
Cc: Juan Rivera; Kylie A. Taketa; Amanda Waki
Subject: RE: Early Consultation - Lahaina Force Main No.3 Replacement Project

Council Member Tamara Paltin,

Thank you for your email dated February 2, 2026, providing early consultation comments on the subject project. We offer the following in response to the comments provided.

Comment/Question: Why is the life span only 30 years for the pipes?

Response:

- The original Lahaina Force Main No. 3 was constructed in two segments: one 6,800-ft long segment in 1978 and one 2,200-ft long segment in 1997. Both were constructed of ductile iron pipe. After 38 years in service, the 1978-built segment was replaced in 2015. Prior to the replacement, there were several breaks of the FM in the 1978-built segment including a break in 2007 that spilled 687,500 gallons of wastewater. The cause of the break was not determined but based on the spill report, could have included scouring from grit within the pipe, failure due to hydrogen sulfide gas, or failure due to manufacturer's defect of the pipe. The proposed action is to replace the 1997-built segment that has been in service for 30 years which is the amount of time that the 1987-built segment was in service before its 2007 break. The proposed force main will be constructed of PVC which is corrosion resistant.

Comment/Question: Replacement lines should be installed outside the SLR-XA and retiring County infrastructure in the coastal hazard areas a seawall will not hold back the effects of sea level rise, seawater encroaches on underground infrastructure requiring constant repairs, there's a feeling that this is not in alignment with the County's hazard mitigation plans, to promote long term resilience of the County's economic, environmental, historical and cultural resources. They don't want the County to encourage nor invest in projects that would put people in known hazard zones. Infrastructure literally sitting in seawater will require much more maintenance, monitoring and repair. It is highly likely that there will be coastal hazards within our lifetime, and it does not seem we are planning with future generations in mind with new infrastructure installation in the SLR-XA especially given consideration that 3.2 is now an outdated/conservative estimate of sea level rise by 2100 and it is not the slow steady rise of the ocean but rather stacking of catastrophic events like a storm surge on a full moon high tide with south swell that will ultimately cause problems.

Response

- Moving the FM out of the SLR-XA line should be implemented as part of the overall managed retreat planning effort that could include relocation of the highway and other properties to areas not affected by sea level rise. This will affect the population being served by the sewer system and could require changes including pump station relocations, force main relocations, and updated system sizing. The planning efforts for the managed retreat are not yet defined. Moving the FM as part of the overall managed retreat effort such as when moving the highway and other major utilities would provide better results because it can be integrated with the other necessary changes. The proposed project will serve the current public by providing wastewater service for the

immediate and foreseeable future. With a typical design life of 50 years, the FM will likely require replacement prior to 2100.

- The proposed project is an underground utility and is being designed as a PVC force main. PVC pipe is corrosion resistant and with minimal valves along the force main (FM), will require minimal servicing and maintenance. The FM will be underground and will not be damaged by a rise in sea level. It will also not be subject to groundwater intrusion because FMs are water tight. This project is near the shoreline and will comply with Special Management Area and shoreline setback rules which allow public underground utilities in the shoreline area.
- Approximately half of the proposed force main is within the SLR-XA. Alternative alignments to stay out of the SLR-XA and stay within existing Right-of-Ways would extend the length of the FM from 2,200-ft to about 4,200-ft to 5,200-ft and would require a more mauka alignment. The alternative alignment would have increased construction cost from the added length. It would also have increased operation and maintenance cost for pumping through the added length and pumping to higher elevation as well as maintenance of additional air valves due to the higher elevation.

We appreciate the input provided by your office and will transmit a copy of the Draft EA when published for review and comment. Should you have any questions, please feel free to contact me at 808-944-1821.

Thank you,
Clifton Miyasaki
Fukunaga and Associates, Inc.
1357 Kapiolani Blvd. Ste. 1530
Honolulu, HI 96814

From: Tamara A. Paltin <Tamara.Paltin@mauicounty.us>
Sent: Tuesday, February 3, 2026 12:24 PM
To: Clifton Miyasaki <cmiyasaki@fukunagaengineers.com>
Subject: Early Consultation - Lahaina Force Main No.3 Replacement Project

External Sender - From: ("Tamara A. Paltin"
<Tamara.Paltin@mauicounty.us>)
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Aloha e Ms. Miyasaki,
Mahalo for the opportunity to engage in early consultation. In reaching out to my community some of the feedback I received to date:

Why is the life span only 30 years for the pipes?

Replacement lines should be installed outside the SLR-XA and retiring County infrastructure in the coastal hazard areas a seawall will not hold back the effects of sea level rise, seawater encroaches on underground infrastructure requiring constant repairs, there's a feeling that this is not in alignment with the County's hazard mitigation plans, to promote long term resilience of the County's economic, environmental, historical and cultural resources. They don't want the County to encourage nor invest in projects that would put people in known hazard zones. Infrastructure literally sitting in seawater will require much more maintenance, monitoring and repair. It is highly likely that there will be coastal hazards within our lifetime, and it does not seem we are planning with future generations in mind with new infrastructure installation in the SLR-XA especially given consideration that 3.2 is now an outdated/conservative estimate of sea level rise by 2100 and it is not the slow steady rise of the ocean but rather stacking of catastrophic events like a storm surge on a full moon high tide with south swell that will ultimately cause problems.

Mahalo for your time and attention to this feedback,

Tamara

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Clifton Miyasaki

From: Honeygirl Aquino <aquinohoneygirl12@gmail.com>
Sent: Thursday, February 5, 2026 10:04 PM
To: Clifton Miyasaki
Cc: Scott Fisher; leinoa.kong@hawaii.gov
Subject: RE: Early Consultation Request Lahaina Force Main No. 3 Replacement Project

External Sender - From: (Honeygirl Aquino
<aquinohoneygirl12@gmail.com>)

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Aloha Mr. Clifton Miyasaki,

Mahalo for including the Maui Lānaʻi Island Burial Council (MLIBC) in your Early Consultation Request Lahaina Force Main No. 3 Replacement Project. Would you be willing to present your project at the next MLIBC on February 25, 2025; 9:00 am. There is an opportunity to join us via Teams or in person in Wailuku at the Department of Land and Natural Resources Maui District Office Complex Conference Room 130 Mahalani Street.

We look forward to hearing from you.

Mahalo,
Honeygirl Duman
Maui Lānaʻi Island Burial Council, Lāhainā Representative

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Clifton Miyasaki

From: Kong, Leinoa M <leinoa.kong@hawaii.gov>
Sent: Tuesday, February 10, 2026 1:47 PM
To: Clifton Miyasaki
Subject: Re: Early Consultation Request Lahaina Force Main No. 3 Replacement Project

External Sender - From: ("Kong, Leinoa M"
<leinoa.kong@hawaii.gov>)

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Aloha e Clifton,

Mahalo. It is okay to join the meeting virtually if that works out better for you. I am happy to add you to the agenda for the upcoming MLIBC meeting scheduled for February 25, 2026 at 9am. If you have anything that you would like to present to the council, you can forward it to me and I will be sure to make it available to them in their packets. I will send you the link to the agenda when it becomes available. You will find the meeting link in the agenda. Please let me know if I can help or be of any assistance.

Ke Aloha,

Leinoa M. Kong M.A.

Burial Sites Specialist

State Historic Preservation Division

130 Mahalani Street

Wailuku, Hawai'i 96793

Email: leinoa.kong@hawaii.gov

[https://urldefense.proofpoint.com/v2/url?u=http-](https://urldefense.proofpoint.com/v2/url?u=http-3A__dlnr.hawaii.gov_shpd_&d=DwIGaQ&c=euGZstcaTD1lvimEN8b7jXrwqOf-v5A_CdpgnVfiiMM&r=Dq4wk0SsC1lXchLnfdtmnuA6XE3dI4n-GIAtMnr2Iac&m=X7kLIeK4uhZ84TxQeWSwKeYLTaEqKi577QXbncM3S_L4qgRKBqeRasSS1nVnKosa&s=Af9pp_46SSu8DeESeAvKBV1mL2Kml_iubV_W71DRbEg&e=)

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From: Clifton Miyasaki <cmiyasaki@fukunagaengineers.com>

Sent: Tuesday, February 10, 2026 9:02 AM

To: Honeygirl Aquino

Cc: Scott Fisher; Kong, Leinoa M; Juan Rivera; Kylie A. Taketa; Amanda Waki

Subject: [EXTERNAL] RE: Early Consultation Request Lahaina Force Main No. 3 Replacement Project

Honeygirl Duman,

Thank you for your email response dated February 5, 2026, on the early consultation for the subject project. We are happy to present our project at the upcoming MLIBC meeting on February 25, 2026, 9:00 am. Please include the project presentation to the meeting.

I am not sure yet whether we can make the in-person meeting, but we at least will be able to join virtually. If OK, I would like to update you later whether we can make the in-person meeting or if we would join virtually.

Clifton

From: Honeygirl Aquino <aquinohoneygirl12@gmail.com>
Sent: Thursday, February 5, 2026 10:04 PM
To: Clifton Miyasaki <cmiyasaki@fukunagaengineers.com>
Cc: Scott Fisher <scott@hilt.org>; leinoa.kong@hawaii.gov
Subject: RE: Early Consultation Request Lahaina Force Main No. 3 Replacement Project

Aloha Mr. Clifton Miyasaki, Mahalo for including the Maui Lānaʻi Island Burial Council (MLIBC) in your Early Consultation Request Lahaina Force Main No. 3 Replacement Project. Would you be willing to present your project at the next MLIBC on
Aloha Mr. Clifton Miyasaki,

Mahalo for including the Maui Lānaʻi Island Burial Council (MLIBC) in your Early Consultation Request Lahaina Force Main No. 3 Replacement Project. Would you be willing to present your project at the next MLIBC on February 25, 2025; 9:00 am. There is an opportunity to join us via Teams or in person in Wailuku at the Department of Land and Natural Resources Maui District Office Complex Conference Room 130 Mahalani Street.

We look forward to hearing from you.

Mahalo,
Honeygirl Duman

Maui Lānaiʻi Island Burial Council, Lāhainā Representative

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Clifton Miyasaki

From: Clifton Miyasaki
Sent: Tuesday, February 10, 2026 9:02 AM
To: Honeygirl Aquino
Cc: Scott Fisher; leinoa.kong@hawaii.gov; Juan Rivera; Kylie A. Taketa; Amanda Waki
Subject: RE: Early Consultation Request Lahaina Force Main No. 3 Replacement Project

Honeygirl Duman,

Thank you for your email response dated February 5, 2026, on the early consultation for the subject project. We are happy to present our project at the upcoming MLIBC meeting on February 25, 2026, 9:00 am. Please include the project presentation to the meeting.

I am not sure yet whether we can make the in-person meeting, but we at least will be able to join virtually. If OK, I would like to update you later whether we can make the in-person meeting or if we would join virtually.

Clifton

From: Honeygirl Aquino <aquinohoneygirl12@gmail.com>
Sent: Thursday, February 5, 2026 10:04 PM
To: Clifton Miyasaki <cmiyasaki@fukunagaengineers.com>
Cc: Scott Fisher <scott@hilt.org>; leinoa.kong@hawaii.gov
Subject: RE: Early Consultation Request Lahaina Force Main No. 3 Replacement Project

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Aloha Mr. Clifton Miyasaki,

Mahalo for including the Maui Lānaʻi Island Burial Council (MLIBC) in your Early Consultation Request Lahaina Force Main No. 3 Replacement Project. Would you be willing to present your project at the next MLIBC on February 25, 2025; 9:00 am. There is an opportunity to join us via Teams or in person in Wailuku at the Department of Land and Natural Resources Maui District Office Complex Conference Room 130 Mahalani Street.

We look forward to hearing from you.

Mahalo,
Honeygirl Duman
Maui Lānaʻi Island Burial Council, Lāhainā Representative

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Clifton Miyasaki

From: Erika Hughston <Erika.Hughston@co.maui.hi.us>
Sent: Tuesday, February 10, 2026 10:56 AM
To: Clifton Miyasaki
Cc: Juan A. Rivera; Patrick S. McCall; Samuel A. Marvel
Subject: Early Consultation Request Lahaina Force Main No. 3 Replacement Project
Attachments: Response Ltr, Comments_Lahaina Force Main No. 3 Replacement_Early Consult_01.29.2026_PSM Signed.pdf

External Sender - From: (Erika Hughston
<Erika.Hughston@co.maui.hi.us>)
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Good Morning Clifton,

Please see the County of Maui Department of Parks and Recreation response letter attached.

Thank you,

- Erika

Erika Hughston

Capital Improvements Project Coordinator
Planning and Development | Parks and Recreation
County of Maui
(808) 270 - 7387 | erika.hughston@co.maui.hi.us
2145 Kaohu Street, Wailuku
HI, 96793

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RICHARD T. BISSEN, JR.
Mayor

JOSIAH K. NISHITA
Managing Director

PATRICK S. MCCALL
Director

SHANE T. DUDOIT
Deputy Director



DEPARTMENT OF PARKS AND RECREATION
COUNTY OF MAUI
700 HALI'A NAKOA STREET, UNIT 2
WAILUKU, MAUI, HAWAII 96793
www.mauicounty.gov

January 29, 2026

Clifton Miyasaki, Project Engineer
Munekiyo Hiraga
1357 Kapiolani Blvd., Suite 1530
Honolulu, Hawaii 96814

Dear Mr. Miyasaki:

**SUBJECT: EARLY CONSULTATION REQUEST LAHAINA FORCE MAIN NO. 3
REPLACEMENT PROJECT; LAHAINA, MAUI, HAWAII'**

Thank you for the opportunity to review and comment on the subject project. This project is needed for the community to provide safe and updated infrastructure. The Department of Parks and Recreation (DPR) has the following comments and concerns.

DPR requests continued communication throughout the project with the applicant and their team.

1. Abandoned in Place

- a. 'The existing force main will be abandoned in place once the proposed force main is online.' Due to the proximity to the ocean and Wahikuli Wayside Park, DPR requests that the original line be removed upon completion of the service transfer. This request coincides with the Beach Park Vulnerability and Adaptation Study under section 3, Adaptation Strategies, with the removal of structures within the Shore Level Rise Exposure Area and restoration of coastal access area efforts.

2. Equipment Staging

- a. Although this is an early consultation request, DPR would like to ensure the coordination of a construction staging area due to the proximity of Wahikuli Terrace Park. Upon further drafts, please include a construction staging area for equipment and possible construction timeframes.

Clifton Miyasaki, Project Engineer
Munekiyo Hiraga
January 29, 2026
Page 2

Should you have any questions, please feel free to contact me or Samuel Marvel, Chief of Planning and Development, at samual.marvel@co.maui.hi.us or (808) 270-6173.

Sincerely,

A handwritten signature in black ink, appearing to read 'Patrick S. McCall', written in a cursive style.

PATRICK S. MCCALL
Director of Parks and Recreation

c: Juan Rivera, Department of Environmental Management
Samuel A. Marvel, Chief of Planning and Development

PSM:SAM:eh

Clifton Miyasaki

From: Clifton Miyasaki
Sent: Wednesday, February 18, 2026 10:52 AM
To: 'Erika Hughston'
Cc: Juan A. Rivera; Patrick S. McCall; Samuel A. Marvel; Amanda Waki
Subject: RE: Early Consultation Request Lahaina Force Main No. 3 Replacement Project

To Erika Hughston,

Thank you for your email dated February 10, 2026, with attachment letter from Director Patrick McCall, providing early consultation comments on the subject project. We offer the following in response to the comments provided.

Comment/Question:

1. Abandoned in Place

a. 'The existing force main will be abandoned in place once the proposed force main is online.' Due to the proximity to the ocean and Wahikuli Wayside Park, DPR requests that the original line be removed upon completion of the service transfer. This request coincides with the Beach Park Vulnerability and Adaptation Study under section 3, Adaptation Strategies, with the removal of structures within the Shore Level Rise Exposure Area and restoration of coastal access area efforts.

Response:

It is noted that Department of Parks and Recreation is requesting removal of utilities that will be deactivated. However, the existing force main that will be deactivated is not within the sea level rise exposure area (SLR-XA) and parks properties.

Comment/Question:

2. Equipment Staging

a. Although this is an early consultation request, DPR would like to ensure the coordination of a construction staging area due to the proximity of Wahikuli Terrace Park. Upon further drafts, please include a construction staging area for equipment and possible construction timeframes.

Response

The construction staging area will be coordinated with Department of Parks and Recreation. The construction plans will be submitted for your review and comment during the project design. This coordination will also include estimates of construction duration.

We appreciate the input provided by your office and will transmit a copy of the Draft EA when published for review and comment. Should you have any questions, please feel free to contact me at 808-944-1821.

Thank you,
Clifton Miyasaki
Fukunaga and Associates, Inc.
1357 Kapiolani Blvd. Ste. 1530
Honolulu, HI 96814

From: Erika Hughston <Erika.Hughston@co.maui.hi.us>
Sent: Tuesday, February 10, 2026 10:56 AM

To: Clifton Miyasaki <cmiyasaki@fukunagaengineers.com>

Cc: Juan A. Rivera <Juan.Rivera@co.maui.hi.us>; Patrick S. McCall <Patrick.S.Mccall@co.maui.hi.us>; Samuel A. Marvel <Samual.Marvel@co.maui.hi.us>

Subject: Early Consultation Request Lahaina Force Main No. 3 Replacement Project

External Sender - From: (Erika Hughston
<Erika.Hughston@co.maui.hi.us>)

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Good Morning Clifton,

Please see the County of Maui Department of Parks and Recreation response letter attached.

Thank you,

- Erika

Erika Hughston

Capital Improvements Project Coordinator
Planning and Development | Parks and Recreation
County of Maui
(808) 270 - 7387 | erika.hughston@co.maui.hi.us
2145 Kaohu Street, Wailuku
HI, 96793

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Clifton Miyasaki

From: Nelson, Jay <jay_nelson@fws.gov>
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To: Clifton Miyasaki
Subject: Technical assistance for Lahaina Force Main No. 3 Replacement Project: Projecte # 2026-0034088
Attachments: Animal Avoidance and Minimization Measures - FINAL May 2023.docx; BMPs For Work In or Around Aquatic Environment_revised Nov 2018.doc; Maui_Invasive Species Biosecurity Protocols_w_notes_FINAL_Feb 2022.docx; Plant Avoidance and Minimization Measures_FINAL_May 2023.docx

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Aloha Clifton,

We received your request for technical assistance for the Lahaina Force Main No. 3 Replacement Project: IPaC Project # 2026-0034088. Thank you for requesting species list in IPaC for the project.

Based on species identified in IPaC as potentially in the project area and the nature of the project we are providing the attached Animal, Plant, Biosecurity, and Work in or near aquatic Environment, Avoidance and Minimization Measures (AMMs) for you to consider and to incorporate as appropriate as you continue forward in planning for the Main No. 3 Replacement Project.

Mahalo for reaching out!

Jay

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FINAL Avoidance and Minimization Measures (AMMs)
Final revised May 2023

ESA Listed Species

Endangered ‘ōpe‘ape‘a (Hawaiian hoary bat, *Lasiurus cinereus semotus*): The Hawaiian hoary bat roosts in woody vegetation across all islands and will leave their young unattended in trees and shrubs when they forage. If trees or shrubs 15 feet or taller are cleared during the pupping season, June 1 through September 15, there is a risk that young bats could inadvertently be harmed or killed, since they are too young to fly or move away from disturbance. Hawaiian hoary bats forage for insects from as low as 3 feet to higher than 500 feet above the ground and can become entangled in barbed wire used for fencing.

To avoid and minimize impacts to the endangered Hawaiian hoary bat we recommend you incorporate the following applicable measures into your project description:

- Do not disturb, remove, or trim woody plants greater than 15 feet tall during the bat birthing and pup rearing season (June 1 through September 15).
- Do not use barbed wire for fencing.

Endangered ‘ua‘u (Hawaiian petrel, *Pterodroma sandwichensis*), Threatened ‘a‘o, (Newell’s shearwater, *Puffinus newelli*), and Endangered Hawai‘i Distinct Population Segment of the ‘akē‘akē (band-rumped storm-petrel, *Hydrobates castro*):

Hawaiian seabirds may traverse the project area at night during the breeding, nesting and fledging seasons (March 1 to December 15). Outdoor lighting could result in seabird disorientation, fallout, and injury or mortality. Seabirds are attracted to lights and after circling the lights they may become exhausted and collide with nearby wires, buildings, or other structures or they may land on the ground. Downed seabirds are subject to increased mortality due to collision with automobiles, starvation, and predation by dogs, cats, and other predators. Young birds (fledglings) traversing the project area between September 15 and December 15, in their first flights from their mountain nests to the sea, are particularly vulnerable to light attraction.

To avoid and minimize potential project impacts to seabirds we recommend you incorporate the following measures into your project description:

- Fully shield all outdoor lights so the bulb can only be seen from below.
- Install automatic motion sensor switches and controls on all outdoor lights or turn off lights when human activity is not occurring in the lighted area.
- Avoid nighttime construction during the seabird fledging period, September 15 through December 15.

Threatened nēnē (Hawaiian goose, *Branta (Nesochen) sandvicensis*): Nēnē are found on the islands of Hawai‘i, Maui, Moloka‘i, and Kaua‘i. They are observed in a variety of habitats, but prefer open areas, such as pastures, golf courses, wetlands, natural grasslands and shrublands, and lava flows. Threats to the species include introduced mammalian and avian predators, wind facilities, and vehicle strikes.

To avoid and minimize potential project impacts to nēnē we recommend you incorporate the following measures into your project description:

- Do not approach, feed, or disturb nēnē.
- If nēnē are observed loafing or foraging within the project area during the breeding season (September through April), have a biologist familiar with nēnē nesting behavior survey for nests in and around the project area prior to the resumption of any work. Repeat surveys after any subsequent delay of work of 3 or more days (during which the birds may attempt to nest).
- Cease all work immediately and contact the Service for further guidance if a nest is discovered within a radius of 150 feet of proposed project, or a previously undiscovered nest is found within the 150-foot radius after work begins.
- In areas where nēnē are known to be present, post and implement reduced speed limits, and inform project personnel and contractors about the presence of endangered species on-site.

Endangered Hawaiian waterbirds (ae‘o, Hawaiian stilt, *Himantopus mexicanus knudseni*; ‘alae ke‘oke‘o, Hawaiian coot, *Fulica alai*; koloa maoli, Hawaiian duck, *Anas wyvilliana*):

Hawaiian waterbirds are currently found in a variety of wetland habitats including freshwater marshes and ponds, coastal estuaries and ponds, artificial reservoirs, kalo or taro (*Colocasia esculenta*) lo‘i or patches, irrigation ditches, sewage treatment ponds, and in the case of the Hawaiian duck, montane streams and marshlands. Hawaiian stilts may also be found wherever ephemeral or persistent standing water may occur. Threats to these species include non-native predators, habitat loss, and habitat degradation. Hawaiian ducks are also subject to threats from hybridization with introduced mallards.

Based on the project details provided, your project may result in the creation of standing water or open water that could attract Hawaiian waterbirds to the project site. In particular, the Hawaiian stilt is known to nest in sub-optimal locations (e.g., any ponding water), if water is present. Hawaiian waterbirds attracted to sub-optimal habitat may suffer adverse impacts, such as predation and reduced reproductive success, and thus the project may create an attractive nuisance. Therefore, we recommend you work with our office during project planning so that we may assist you in developing measures to avoid impacts to listed species (e.g., fencing, vegetation control, predator management).

To avoid and minimize potential project impacts to Hawaiian waterbirds we recommend you incorporate the following measures into your project description:

- In areas where waterbirds are known to be present, post and implement reduced speed limits, and inform project personnel and contractors about the presence of endangered species on-site.
- If water resources are located within or adjacent to the project site, incorporate applicable best management practices regarding work in aquatic environments into the project design (see enclosure).
- Have a biological monitor that is familiar with the species' biology conduct Hawaiian waterbird nest surveys where appropriate habitat occurs within the vicinity of the proposed project site prior to project initiation. Repeat surveys again within 3 days of

project initiation and after any subsequent delay of work of 3 or more days (during which the birds may attempt to nest). If a nest or active brood is found:

- Contact the Service within 48 hours for further guidance.
- Establish and maintain a 100-foot buffer around all active nests and/or broods until the chicks/ducklings have fledged. Do not conduct potentially disruptive activities or habitat alteration within this buffer.
- Have a biological monitor that is familiar with the species' biology present on the project site during all construction or earth moving activities until the chicks/ducklings fledge to ensure that Hawaiian waterbirds and nests are not adversely impacted.

Endangered Blackburn's sphinx moth (*Manduca blackburni*):

The adult Blackburn's sphinx moth feeds on nectar from native plants, including beach morning glory (*Ipomoea pes-caprae*), 'ilie'e (*Plumbago zeylanica*), maiapilo (*Capparis sandwichiana*), and others. Blackburn's sphinx moth larvae feed on non-native tree tobacco (*Nicotiana glauca*) and native 'aiea (*Nothocestrum* spp.). To pupate, the larvae burrow into the soil and can remain in a state of torpor for a year or more before emerging from the soil. Soil disturbance can result in death of the pupae.

We offer the following survey recommendations to assess whether the Blackburn's sphinx moth occurs within the project area:

- A biologist familiar with the species should survey areas of proposed activities for Blackburn's sphinx moth and its larval host plants prior to work initiation.
 - Surveys should be conducted during the wettest portion of the year (usually November-April or several weeks after a significant rain) and within 4-6 weeks prior to construction.
 - Surveys should include searches for adults, eggs, larvae, and signs of larval feeding (chewed stems, frass, or leaf damage).
 - If moths, eggs, larvae, or native 'aiea or tree tobacco over 3 feet tall, are found during the survey, please contact the Service for additional guidance to avoid impacts to this species.

If no Blackburn's sphinx moth, 'aiea, or tree tobacco are found during surveys, it is imperative that measures be taken to avoid attraction of Blackburn's sphinx moth to the project location and prohibit tree tobacco from entering the site. Tree tobacco can grow greater than 3 feet tall in approximately 6 weeks. If it grows over 3 feet, the plants may become a host plant for Blackburn's sphinx moth. We therefore recommend that you:

- Remove any tree tobacco less than 3 feet tall.
- Monitor the site every 4-6 weeks for new tree tobacco growth before, during, and after the proposed ground-disturbing activity.
 - Monitoring for tree tobacco can be completed by any staff, such as groundskeeper or regular maintenance crew, provided with picture placards of tree tobacco at different life stages.

Threatened (Central North Pacific DPS) Green sea turtles (*Chelonia mydas*) and Endangered Hawksbill sea turtle (*Eretmochelys imbricata*) (collectively referred to as sea

turtles): The Service consults on sea turtles and their use of terrestrial habitats (beaches where nesting and/or basking is known to occur), whereas the National Oceanic and Atmospheric Administration (NOAA) Fisheries consults on sea turtles in aquatic habitats. We recommend that you consult with NOAA Fisheries regarding the potential impacts from the proposed project if it may affect off-shore or open ocean habitats.

Green sea turtles may nest on any sandy beach area in the Pacific Islands. Hawksbill sea turtles exhibit a wide tolerance for nesting substrate (ranging from sandy beach to crushed coral) with nests typically placed under vegetation. Both species exhibit strong nesting site fidelity. Nesting occurs on beaches from May through September, peaking in June and July, with hatchlings emerging through November and December.

Construction on, or in the vicinity of, beaches can result in sand and sediment compaction, sea turtle nest destruction, beach erosion, contaminant and nutrient runoff, and an increase in direct and ambient light pollution which may disorient hatchlings or deter nesting females. Off-road vehicle traffic may result in direct impacts to sea turtles or nests, and also contributes to habitat degradation through erosion and compaction.

To avoid and minimize project impacts to sea turtles and their nests we recommend you incorporate the following measures into your project description:

- No vehicle use on or modification of the beach/dune environment during the sea turtle nesting or hatching season (May to December).
- Do not remove native dune vegetation.
- Incorporate applicable best management practices regarding Work in Aquatic Environments (see enclosed) into the project design.
- Have a biologist familiar with sea turtles conduct a visual survey of the project site to ensure no basking sea turtles are present.
 - If a basking sea turtle is found within the project area, cease all mechanical or construction activities within 100 feet until the animal voluntarily leaves the area.
 - Cease all activities between the basking turtle and the ocean.
- Remove any project-related debris, trash, or equipment from the beach or dune if not actively being used.
- Do not stockpile project-related materials in the intertidal zone, reef flats, sandy beach and adjacent vegetated areas, or stream channels.

Optimal sea turtle nesting habitat is a dark beach free of barriers that restrict sea turtle movement. Nesting turtles may be deterred from approaching or laying successful nests on lighted or disturbed beaches. They may become disoriented by artificial lighting, leading to exhaustion and placement of a nest in an inappropriate location (such as at or below the high tide line). Hatchlings that emerge from nests may also be disoriented by artificial lighting. Inland areas visible from the beach should be sufficiently dark to allow for successful navigation by hatchlings to the ocean.

To avoid and minimize project impacts to sea turtles from lighting we recommend incorporating the following applicable measures into your project description:

- Avoid nighttime work during the nesting and hatching season (May to December).
- Minimize the use of lighting on or near beaches and shield all project-related lights so the light is not visible from any beach.
 - If lights can't be fully shielded or if headlights must be used, fully enclose the light source with light filtering tape or filters.
- Incorporate design measures into the construction or operation of buildings adjacent to the beach to reduce ambient outdoor lighting such as:
 - tinting or using automatic window shades for exterior windows that face the beach;
 - reducing the height of exterior lighting to below 3 feet and pointed downward or away from the beach; and
 - minimize light intensity to the lowest level feasible and, when possible, include timers and motion sensors.

U.S. Fish and Wildlife Service Recommended Standard Best Management Practices (BMPs)

The U.S. Fish and Wildlife Service (Service) recommends the following measures are incorporated into project planning to avoid or minimize impacts to fish and wildlife resources. Incorporation of these BMPs may reduce negative impacts to aquatic habitats from project construction-related activities. These BMPs are recommended in addition to, and do not override any terms, conditions, or other recommendations prepared by the Service, other Federal, state, or local agencies. Please contact the Service Aquatic Ecosystems Conservation Program at 808-792-9400 with any questions.

1. Authorized dredging and filling-related activities that may result in the temporary or permanent loss of aquatic habitats should be designed to avoid indirect, negative impacts to aquatic habitats that extend beyond the planned project area.
2. Dredging/filling in the marine environment should be scheduled to avoid coral spawning and recruitment periods, and sea turtle nesting and hatching periods. Because these periods vary throughout the Pacific islands, we recommend contacting the relevant local, state, or Federal fish and wildlife resource agency for site specific guidance.
3. Turbidity and siltation from project-related work should be minimized and contained within the project area by silt containment devices and curtailing work during flooding or adverse tidal and weather conditions. The BMPs should occur for the life of the construction period until turbidity and siltation within the project area is stabilized. All project construction-related debris and sediment containment devices should be removed and disposed of at an approved site.
4. All project construction-related materials and equipment (i.e., dredges, vessels, backhoes, silt curtains, etc.) to be placed in an aquatic environment should be inspected for pollutants including, but not limited to; marine fouling organisms, grease, oil, etc., and cleaned to remove pollutants prior to use. Project related activities should not result in any debris disposal, non-native species introductions, or attraction of non-native pests to the affected or adjacent aquatic or terrestrial habitats. Implementing both a litter-control plan and a Hazard Analysis and Critical Control Point plan (HACCP – see <https://www.fws.gov/policy/A1750fw1.html>) can prevent attraction and introduction of non-native species.
5. Project construction-related materials (i.e., fill, revetment rock, pipe, etc.) should not be stockpiled in, or in close proximity to aquatic habitats and should be protected from erosion (e.g., with filter fabric, etc.), to prevent materials from being carried into waters by wind, rain, or high surf.
6. Fueling of project-related vehicles and equipment should occur away from the aquatic environment and a contingency plan to control petroleum products accidentally spilled during the project should be developed. The plan should be retained on site with the person responsible for compliance with the plan. Absorbent pads and containment booms should be stored on-site to facilitate the clean-up of accidental petroleum releases.
7. All deliberately exposed soil or under-layer materials used in the project near water should be protected from erosion and stabilized as soon as possible with geotextile, filter fabric or native or non-invasive vegetation matting, hydro-seeding, etc.

PIFWO Invasive Species Biosecurity Protocols

(Updated February 2022)

Project activities may introduce or spread invasive species, causing negative ecological consequences to new areas or islands, resulting in potential impacts to fish, wildlife, and their habitat. For example, seeds of invasive plant species (e.g., *Chromolaena odorata*, *Senecio madagascariensis*, *Cyathea cooperi*, or *Miconia calvescens*) can be inadvertently transported on equipment from a previous work site to a new site where the species are not present. Likewise, equipment used in an area infected with a pathogen or insect pest that can have ecological consequences (e.g., rapid 'ōhi'a death (*Ceratocystis spp.*), black twig borer (*Xylosandrus compactus*), or naio thrips (*Klambothrips myopori*), if not properly decontaminated, can act as a vector to introduce the pathogen into a new area. Additionally, vehicles must be properly inspected and cleaned to ensure vertebrate or invertebrate pests do not stowaway and spread to other areas. These are just a few examples of how even well-intended project activities may inadvertently introduce or spread invasive species.

To avoid and minimize invasive species potential impacts to fish, wildlife, and their habitat we recommend incorporating general biosecurity protocols into your project planning. Additionally, your project occurs in a geographic area and/or involves activities that risk spreading the following specific invasive species. Therefore, we recommend including additional protocols specific to those invasive species. Additional consultation is recommended if project activities involve transportation of materials, equipment, vehicles, etc. between islands or transpacific movement of materials or equipment.

Invasive Species Biosecurity Protocol

The following biosecurity protocol is recommended to be incorporated into planning for your project to avoid or minimize transportation of invasive species with potential to impact to fish, wildlife, and their habitat. Cleaning, treatment, and/or inspection activities are the responsibility of the equipment or vehicle owner and operator. However, it is ultimately the responsibility of the action agency to ensure that all project materials, vehicles, machinery, equipment, and personnel are free of invasive species before entry into a project site. Please refer to the resources listed below for current removal/treatment recommendations that may be relevant to your project.

1. Cleaning and treatment:

Project applicants should assume that all project materials (i.e., construction materials, or aggregate such as dirt, sand, gravel, etc.), vehicles, machinery, and equipment contain dirt and mud, debris, plant seeds, and other invasive species, and therefore require thorough cleaning. Treatment for specific pests, for example, trapping and poison baiting for rodents, or baiting and fumigation for insects, should be considered when applicable. For effective cleaning we offer the following recommendations prior to entry into a project site:

- a. Project materials, vehicles, machinery, and equipment must be pressure washed thoroughly (preferably with hot water) in a designated cleaning area. Project materials, vehicles, machinery, and equipment should be visibly free of mud/dirt

(excluding aggregate), seeds, plant debris, insects, spiders, frogs (including frog eggs), other vertebrate species (e.g., rodents, mongoose, feral cats, reptiles, etc.), and rubbish. Areas of particular concern include bumpers, grills, hood compartments, wheel wells, undercarriage, cabs, and truck beds. Truck beds with accumulated material are prime sites for hitchhiking invasive species.

- b. The interior and exterior of vehicles, machinery, and equipment must be free of rubbish and food, which can attract pests (i.e., rodents and insects). The interiors of vehicles and the cabs of machinery should be vacuumed clean particularly for any plant material or seeds.
2. Inspection:
 - a. Following cleaning and/or treatment, project materials, vehicles, machinery, and equipment, must be visually inspected by its user, and be free of mud/dirt (excluding aggregate), debris, and invasive species prior to entry into a project site. For example, careful visual inspection of a vehicle's tires and undercarriage is recommended for any remaining mud that could contain invasive plant seeds.
 - b. Any project materials, vehicles, machinery, or equipment found to contain invasive species (e.g., plant seeds, invertebrates, rodents, mongoose, cats, reptiles, etc.) must not enter the project site until those invasive species are properly removed/treated.
 3. For all project site personnel:
 - a. Prior to entry into the project site, visually inspect and clean your clothes, boots or other footwear, backpack, radio harness, tools and other personal gear and equipment for insects, seeds, soil, plant parts, or other debris. We recommend the use of a cleaning brush with sturdy bristles. Seeds found on clothing, footwear, backpacks, etc., should be placed in a secure bag or similar container and discarded in the trash rather than being dropped to ground at the project site or elsewhere.
 4. Additional considerations:
 - a. Consider implementing a Hazard Analysis and Critical Control Point (HACCP) plan (<https://www.fws.gov/policy/A1750fw1.html>) to improve project planning around reducing the risk of introducing or spreading invasive species.
 - b. When applicable, use pest-free or low-risk sources of plants, mulch, wood, animal feed or other materials to be transported to a project site.
 - c. For projects involving plants from nurseries (e.g., outplanting activities, etc.), all plants should be inspected, and if necessary, appropriately cleaned or treated for invasive species prior to being transported to the project site.
 - d. Avoid unnecessary exposure to invasive species at a particular site (to the extent practical) to reduce contamination and spread. For example, if your project involves people or equipment moving between multiple locations, plan and organize timelines so that work is completed in native habitat prior to working in a disturbed location to reduce the likelihood of introducing a pest into the native habitat.

- e. Maintain good communication about invasive species risks between project managers and personnel working on the project site (e.g., conduct briefings and training about invasive species). Ensure prevention measures are communicated to the entire project team. Also consider adding language on biosecurity into contracts or permitting mechanisms to provide clarity to all involved in the project. Report any species of concern or possible introduction of invasive species to appropriate land managers.

For current removal/treatment recommendations please refer to the following:
Hawaiian Islands:

- Maui – <https://mauiinvasive.org/>

Species-Specific Biosecurity Protocols

Table 1. Current island distribution of invasive species with specific biosecurity protocols in the Pacific Islands (PIFWO jurisdiction).

Island	Invasive Species with Specific Protocols			
	Rapid ‘Ōhi‘a Death	Little Fire Ant	Coconut Rhinoceros Beetle	Brown Treesnake
Island of Hawai‘i	widespread	widespread	not present	not present
Maui	incipient	incipient	incipient	not present
O‘ahu	incipient	incipient	widespread	not present
Kaua‘i	widespread	not present	not present	not present
Guam	NA	widespread	widespread	widespread
CNMI	NA	not present	Rota only	not present
American Samoa	NA	incipient	widespread	not present

Rapid ‘Ōhi‘a Death (ROD)

Rapid ‘Ōhi‘a Death (ROD) is caused by a fungal pathogen (*Ceratocystis* spp.) that attacks and kills ‘ōhi‘a trees (*Metrosideros polymorpha*). ‘Ōhi‘a is endemic to the Hawaiian Islands and is the most abundant native tree species, comprising approximately 80 percent of Hawai‘i’s remaining native forests.

For more information about ROD including its current distribution, ROD science updates, and the latest on ROD protocol, please visit www.rapidohiadeath.org.

To reduce the risk of spreading ROD, the following best management practices and decontamination protocol are recommended:

Best Management Practices for ROD

1. Never transport any part of an ‘ōhi‘a tree between different areas of an island or to a different island.
2. Do not use equipment from ROD infected islands on another island unless it is very specialized equipment and follows the decontamination protocol described below.

3. Avoid wounding ‘ōhi‘a trees and roots with mowers, chainsaws, weed eaters, and other tools. If an ‘ōhi‘a receives a minor injury like a small broken branch, then give the injury a clean, pruning-type cut (close to the main part of the trunk or branch) to promote healing, and then spray the entire wounded area with a pruning seal.
4. Always report suspect ROD ‘ōhi‘a trees observed within your project area. ROD is a wilt disease that cuts off the supply of water and nutrients to the tree. The primary symptom to look for is an entire canopy or a large branch with dying leaves or red discolored leaves. Please record the GPS coordinates and location and take a picture of the tree if possible. Please report suspected ROD ‘ōhi‘a trees to the following agencies:
 - a. Island of Hawai‘i – BIISC: 808-969-8268 (ohialove@hawaii.edu)
 - b. Maui – MISC: 808-573-6472 (miscpr@hawaii.edu)
 - c. Moloka‘i – TNC: 808-553-5236 ext. 6585 (lbuchanan@tnc.org)
 - d. O‘ahu – OISC: 808-266-7994 (oisc@hawaii.edu)
 - e. Kaua‘i – KISC: 808-821-1490 (kisc@hawaii.edu)

ROD Decontamination Protocol

1. Clothes, footwear, backpacks, and other personal equipment
 - a. Before leaving the project site, remove as much mud and other contaminants as possible. Use of a brush with soap and water to clean gear is preferred. Footwear, backpacks, and other gear must be sanitized by spraying with a solution of >70 percent isopropyl alcohol or a freshly mixed 10 percent bleach solution.
2. Vehicles, machinery, and other equipment
 - a. Vehicles, machinery, and other equipment must be thoroughly hosed down with water (pressure washing preferred) and visibly free of mud and debris, then sprayed with a solution of >70 percent isopropyl alcohol or a freshly mixed 10 percent bleach solution. Use of a “pump-pot” sprayer is recommended for the solution and a hot water wash is preferred. Be sure to thoroughly clean the undercarriage, truck bed, bumpers, and wheel wells.
 - b. If non-decontaminated personnel or items enter a vehicle, then the inside of the vehicle (i.e., floor mats, etc.) must be subsequently decontaminated by removing mud and other contaminants and sprayed with the one of the same aforementioned sanitizing solutions.
3. Cutting tools
 - a. All cutting tools, including machetes, chainsaws, and loppers must be sanitized to remove visible mud and other contaminants. Tools must be sanitized using a solution of >70 percent isopropyl alcohol or a freshly mixed 10 percent bleach solution. One minute after sanitizing, one may apply an oil-based lubricant to chainsaw chains or other metallic parts to prevent corrosion as bleach is corrosive to metal.

NOTE: When using a 10 percent bleach solution, surfaces should be cleaned with a minimum contact time of 30 seconds. Bleach must be mixed daily and used within 24

hours, as once mixed it degrades. Bleach will not work to disinfect surfaces that have high levels of organic matter such as sawdust or soil. Because bleach is also corrosive to metal, a water rinse after proper sanitization is recommended to avoid corrosion.

Little Fire Ant (LFA)

NOTE: Include the following information for projects that occur in native habitat on islands where LFA is currently recorded and in areas known to be infested with LFA (check <http://stoptheant.org/lfa-in-hawaii/> for status on each island). If other ant species (i.e., yellow crazy ants) may be a concern for your project, please contact the invasive species team.

- Current Distribution of LFA: Island-wide on Guam and island of Hawai‘i; incipient infestation sites on Maui, O‘ahu, and American Samoa; CNMI is also vulnerable and projects there should require that project-related materials, equipment, and vehicles be checked before shipping to the CNMI from Guam and prior to use.

The little fire ant (*Wasmannia auropunctata*), or LFA, is an invasive species with a painful sting that can inhabit many different environments. In Hawai‘i, it often infests agricultural fields and farms, damaging crops and stinging unsuspecting workers. Little fire ants are also highly disruptive to native tropical ecosystems and harmful to wildlife. Slow moving, but tiny and capable of foraging 24 hours a day with multiple queens per colony, LFA is a formidable threat to biodiversity, agriculture, and quality of life on tropical islands in the Pacific.

For more information about LFA including helpful guides and workshops for treating or detecting LFA, please visit www.littlefireants.com.

To reduce the risk of spreading LFA, the following biosecurity protocol is recommended:

Biosecurity Protocol for LFA

1. For projects involving plants from nurseries (e.g., outplanting activities, etc.), all plants should be inspected for little fire ants and other pests prior to being transported to the project site. If plants are found to be infested by ants of any species, plants should be sourced from an alternative nursery and the infested nursery should follow treatment protocols recommended by the Hawai‘i Ant Lab (<https://littlefireants.com/wp-content/uploads/2020-Management-of-Pest-Ants-in-Nurseries-min.pdf>).
2. All work vehicles, machinery, and equipment should follow steps 1 and 2 in the “Invasive Species Biosecurity Protocol” for (1) cleaning and treatment and (2) inspection for invasive ants prior to entering a project site.
3. Any machinery, vehicles, equipment, or other supplies found to be infested with ants (or other invasive species) must not enter the project site until it is properly treated (<https://littlefireants.com/how-to-treat-for-little-fire-ants-for-homeowners/#recommended-bait-products>) and re-tested. Infested vehicles must be treated following recommendations by the Hawai‘i Ant Lab (<https://littlefireants.com/resource-center/>) or another ant control expert and in

accordance with all State and Federal laws. Treatment is the responsibility of the equipment or vehicle owner. Ultimately however, it is the responsibility of the action agency to ensure that all project materials, vehicles, machinery, and equipment follow the appropriate protocol(s).

4. General Vehicle Ant Hygiene: Even the cleanest vehicle can pick up and spread little fire ant. Place MaxForce Complete Brand Granular Insect Bait (1.0 percent Hydramethylnon; https://labelsds.com/images/user_uploads/Maxforce%20Complete%20Label%201-5-18.pdf) into refillable tamper resistant bait stations. An example of a commercially available refillable tamper resistant bait station is the Ant Café Pro (<https://www.antcafe.com/>). Place a bait station (or stations) in the vehicle and note that larger vehicles, such as trucks, may require multiple stations. Monitor bait stations frequently (every week at a minimum) and replace bait as needed. If the bait station does not have a sticker to identify the contents, apply a sticker listing contents to the station.
5. Gravel, building materials, or other equipment such as portable buildings should be baited using MaxForce Complete Brand Granular Insect Bait (1.0 percent Hydramethylnon; https://labelsds.com/images/user_uploads/Maxforce%20Complete%20Label%201-5-18.pdf) or AmdroPro (0.73 percent Hydramethylnon; <https://connpest.com/labels/AMDROPRO.pdf>) following label guidance.
6. Storage areas that hold field tools, especially tents, tarps, and clothing should be baited using MaxForce Complete Brand Granular Insect Bait (1.0 percent Hydramethylnon; https://labelsds.com/images/user_uploads/Maxforce%20Complete%20Label%201-5-18.pdf) or AmdroPro (0.73 percent Hydramethylnon; <https://connpest.com/labels/AMDROPRO.pdf>) following label guidance.
7. Vehicles that have entered a project site known or thought to overlap with areas infested with LFA should subsequently be tested for LFA with baiting in accordance with protocol recommended by the Hawai'i Ant Lab (<https://littlefireants.com/survey-your-home-for-lfa/>).
8. If LFA are detected, please report it to 808-643-PEST (Hawai'i), 671-475-PEST (Guam), or 684-699-1575 (American Samoa). Please visit <https://littlefireants.com/identification-of-little-fire-ants/> for assistance in identifying LFA.

Coconut Rhinoceros Beetle (CRB)

The coconut rhinoceros beetle (*Oryctes rhinoceros*), or CRB, is a large, horned scarab beetle native to Southeast Asia. An invasive pest where it occurs outside of its native range, the adult beetles primarily attack coconut palms by boring into the crowns to feed on developing leaves. It is also known to feed on bananas, sugarcane, pineapples, oil palms, and pandanus trees. The larval grub stage burrow into and feed upon decomposing mulch and vegetation. On most Pacific Islands it lacks natural predators, leading to severe declines and extirpations of palm species where it has become established. On Guam, researchers have recently documented a shift of CRB to the

island's native and threatened cycad tree (*Cycas micronesica*) ([Marler et al. 2020](#)). In the Hawaiian Islands, CRB is a documented threat to archipelago's native *Pritchardia* palm species.

For more information about CRB including the current situation in Guam and high/low-risk areas on O'ahu, please visit <http://cnas-re.uog.edu/crb/> or <https://www.crbhawaii.org/>.

To reduce the risk of spreading CRB, the following biosecurity protocol is recommended:

Biosecurity Protocol for CRB (Hawaiian Islands)

1. Never transport green waste between islands and minimize the creation, storage, and transport of green waste within O'ahu, this also includes:
 - a. Mulch, bark, compost
 - b. Soil of any kind
 - c. Potted plants of any kindAdditional consultation is recommended if the project involves transportation of materials, soil, equipment, vehicles, etc. between islands.
2. If felling or trimming palms, contact CRB Response for a free inspection ((808) 679-5244 or email at info@crbhawaii.org)
3. Keep green waste whole until it is ready to be treated and removed.
 - a. Chip green waste on site and transport it on the same day to a secure and managed green waste disposal site/facility.
 - b. For chipped green waste in high-risk areas, re-chip prior to movement outside the infested area, treat with pesticide (when applicable), heat treatment (>130 degrees F), spread and dry, or store in sealed durable containers.
4. Minimize accumulations of green waste by regularly treating mulch piles or depositing it in sealed green waste bins. In low-risk areas, we also recommend thinly spreading mulch (less than 2 inches deep) and allowing it to dry (no irrigation).
5. If injured or dying coconut palm trees are observed or if CRB are detected, contact CRB Response at (808) 679-5244 or email at info@crbhawaii.org or online at <https://www.crbhawaii.org/report>

Avoidance, Minimization, and Conservation Measures for listed plants in the Pacific Islands

Project activities may affect listed plant species by causing physical damage to plant parts (roots, stems, flowers, fruits, seeds, etc.) as well as impacts to other life requisite features of their habitat, which may result in reduction of germination, growth and/or reproduction. Cutting and removal of vegetation surrounding listed plants has the potential to alter microsite conditions (e.g., light, moisture, temperature), damaging or destroying the listed plants and also increasing the risk of invasion by nonnative plants, which can result in higher incidence or intensity of fire. Activities such as grazing, use of construction equipment and vehicles, and increased human traffic (i.e., trails, visitation, monitoring), can cause ground disturbance, erosion, and/or soil compaction, which decrease absorption of water and nutrients and damage plant root systems and may result in reduced growth and/or mortality of listed plants. Soil disturbance or removal has the potential to negatively impact the soil seed bank of listed plant species if such species are present or historically occurred in the project area.

In order to avoid or minimize potential adverse effects to listed plants that may occur on the proposed project site, we recommend minimizing disturbance outside of existing developed or otherwise modified areas. When disturbance outside existing developed or modified sites is proposed, conduct a botanical survey for listed plant species within the project action area, defined as the area where direct and indirect effects are likely to occur. Surveys should be conducted by a knowledgeable botanist with documented experience in identifying native Hawaiian and Pacific Islands plants, including listed plant species. Botanical surveys should optimally be conducted during the wettest part of the year (typically October to April) when plants and identifying features are more likely to be visible, especially in drier areas. If surveys are conducted outside of the wet season, the Service may assume plant presence.

The boundary of the area occupied by listed plants should be marked with flagging by the surveyor. To avoid or minimize potential adverse effects to listed plants, we recommend adherence to buffer distances for the activities in the **Table below**. Where disturbed areas do not need to be maintained as an open area, restore disturbed areas using native plants as appropriate for the location. Whenever possible we recommend using native plants for landscaping purposes. The following websites are good resources to use when choosing landscaping plants: Landscape Industry Council of Hawai'i Native Plant Poster (<https://hawaiiscape.com/Publications>), Native Hawaiian Plants for Landscaping, Conservation, and Reforestation (<https://www.ctahr.hawaii.edu/oc/freepubs/pdf/of-30.pdf>), and Best Native Plants for Landscapes (<https://www.ctahr.hawaii.edu/oc/freepubs/pdf/OF-40.pdf>).

If listed plants occur in a project area, the avoidance buffers are recommended to reduce direct and indirect impacts to listed plants from project activities. However, where project activities will occur within the recommended buffer distances, additional consultation is required. The impacts to the plants of concern within the buffer area may be reduced by placing temporary fencing or other barriers at the boundary of the disturbance, as far from the affected plants as practicable.

The above guidelines apply to areas outside of designated critical habitat. If project activities occur within designated critical habitat unit boundaries, additional consultation is required.

All activities, including site surveys, risk introducing nonnative species into project areas. Specific attention needs to be made to ensure that all equipment, personnel, and supplies are properly checked and are free of contamination (weed seeds, organic matter, or other contaminants) before entering project areas. Quarantines and or management activities occurring on specific priority invasive species proximal to project areas need to be considered or adequately addressed. This information can be acquired by contacting local experts such as those on local invasive species committees (Kaua‘i: <https://www.kauaiisc.org/>; O‘ahu: <https://www.oahuisc.org/>; Maui Nui: <https://mauiinvasive.org/>; and Hawai‘i: <https://www.biisc.org/>

Table 1. Recommended buffer distances to minimize and avoid potential adverse impacts to listed plants from activities listed below.

Action		Buffer Distance (feet (meters)) – Keep Project Activity This Far Away from Listed Plant	
		Grasses/Herbs/Shrubs and Terrestrial Orchids	Trees and Arboreal Orchids
Walking, hiking, surveys		3 ft (1 m)	3 ft (1 m)
Cutting and Removing Vegetation By Hand or Hand Tools (e.g., weeding)		3 ft (1 m)	3 ft (1 m)
Mechanical Removal of Individual Plants or Woody Vegetation (e.g., chainsaw, weed eater)		3 ft up to height of removed vegetation (whichever greater)	3 ft up to height of removed vegetation (whichever greater)
Removal of Vegetation with Heavy Equipment (e.g., bulldozer, tractor, “bush hog”)		2x width equipment + height of vegetation	820 ft (250 m)
Use of Approved Herbicides (following label)	Ground-based Spray Application; hand application (no wand applicator; spot treatment)	10 ft (3 m)	Crown diameter
	Ground-based Spray Application; manual pump with wand, backpack	50 ft (15 m)	Crown diameter
	Ground-based Spray Application; vehicle-mounted tank sprayer	50 ft (15 m)	Crown diameter
	Aerial Spray (ball applicator)	250 ft (76 m)	250 ft (76 m)
	Aerial Application – herbicide ballistic technology (individual plant treatment)	100 ft (30 m)	Crown diameter
	Aerial Spray (boom)	Further consultation required	Further consultation required
Use of Insecticides (pollinators, seed dispersers)		Further consultation required	Further consultation required

Action		Buffer Distance (feet (meters)) – Keep Project Activity This Far Away from Listed Plant	
		Grasses/Herbs/Shrubs and Terrestrial Orchids	Trees and Arboreal Orchids
Ground/Soil Disturbance/Outplanting/Fencing (Hand tools, e.g., shovel, ‘ō‘ō; Small mechanized tools, e.g., auger)		20 ft (6 m)	2x crown diameter
Ground/Soil Disturbance (Heavy Equipment)		328 ft (100 m)	820 ft (250 m)
Surface Hardening/Soil compaction	Trails (e.g., human, ungulates)	20 ft (6 m)	2x crown diameter
	Roads/Utility Corridors, Buildings/Structures	328 ft (100 m)	820 ft (250 m)
Prescribed Burns		Further consultation required	Further consultation required
Farming/Ranching/Silviculture		820 ft (250 m)	820 ft (250 m)

Definitions (Wagner *et al.* 1999)

Crown: The leafy top of a tree.

Herb: A plant, either annual, biennial, or perennial, with the non-woody stems dying back to the ground at the end of the growing season.

Shrub: A perennial woody plant with usually several to numerous primary stems arising from or relatively near the ground.

Tree: A woody perennial that usually has a single trunk

References Cited

- USFWS. 2010. Endangered and threatened wildlife and plants; determination of endangered status for 48 species on Kauai and designation of critical habitat. Federal Register 75: 18960–19165.
- . 2012. Endangered and threatened wildlife and plants; endangered status for 23 species on Oahu and designation of critical habitat for 124 species; final rule. Federal Register 77: 57648–57862.
- . 2013a Endangered and threatened wildlife and plants; determination of endangered status for 38 species from Molokai, Lanai, and Maui. Federal Register 78: 32014–32065.
- . 2013b. Endangered and threatened wildlife and plants; determination of endangered species status for 15 species on Hawaii Island. Federal Register 78: 64638–64690.
- . 2016. Endangered and threatened wildlife and plants; determination of endangered status for 49 species from the Hawaiian Islands. Federal Register 81: 67786–67860.
- . 2016. USFWS Rare plant database. Unpublished.
- Wagner, W.L., Sohmer, S., and D.R. Herbst. 1999. Manual of the flowering plants of Hawaii, revised edition. Honolulu, Hawaii. University of Hawaii and Bishop Museum Press. 1,919 pp.

Clifton Miyasaki

From: Clifton Miyasaki
Sent: Wednesday, February 18, 2026 7:32 AM
To: 'Nelson, Jay'
Cc: Juan Rivera; Kylie A. Taketa; Amanda Waki
Subject: RE: Technical assistance for Lahaina Force Main No. 3 Replacement Project: Projecte # 2026-0034088
Attachments: Animal Avoidance and Minimization Measures - FINAL May 2023.docx; Plant Avoidance and Minimization Measures_FINAL_May 2023.docx; BMPs For Work In or Around Aquatic Environment_revised Nov 2018.doc; Maui_Invasive Species Biosecurity Protocols_w_notes_FINAL_Feb 2022.docx

Jay,
Thank you for your email dated February 12, 2026, providing early consultation comments on the subject project. The applicable AMMs will be included in the draft EA and the project.

We appreciate the input provided by your office and will transmit a copy of the Draft EA when published for review and comment. Should you have any questions please feel free to contact me at 808-944-1821

Thank you
Clifton Miyasaki
Fukunaga and Associates, Inc.
1357 Kapiolani Blvd., Ste. 1530
Honolulu, HI 96814

From: Nelson, Jay <jay_nelson@fws.gov>
Sent: Thursday, February 12, 2026 11:34 AM
To: Clifton Miyasaki <cmiyasaki@fukunagaengineers.com>
Subject: Technical assistance for Lahaina Force Main No. 3 Replacement Project: Projecte # 2026-0034088

External Sender - From: ("Nelson, Jay" <jay_nelson@fws.gov>)
This message came from outside your organization.

[Learn More](#)

Aloha Clifton,

We received your request for technical assistance for the Lahaina Force Main No. 3 Replacement Project: IPaC Project # 2026-0034088. Thank you for requesting species list in IPaC for the project.

Based on species identified in IPaC as potentially in the project area and the nature of the project we are providing the attached Animal, Plant, Biosecurity, and Work in or near aquatic Environment, Avoidance and Minimization Measures (AMMs) for you to consider and to incorporate as appropriate as you continue forward in planning for the Main No. 3 Replacement Project.

Mahalo for reaching out!

Jay

Jay Nelson
Fish and Wildlife Biologist
U.S. Fish and Wildlife Service
Pacific Islands Fish and Wildlife Office
300 Ala Moana Boulevard
Honolulu, HI 96850

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JOSH GREEN, M.D.
GOVERNOR
KE KIA'ĀINA



KEITH A. REGAN
COMPTROLLER
KA LUNA HO'OMALU HANA LAULĀ

MEOH-LENG SILLIMAN
DEPUTY COMPTROLLER
KA HOPE LUNA HO'OMALU HANA LAULĀ

STATE OF HAWAII | KA MOKU'ĀINA O HAWAII'
DEPARTMENT OF ACCOUNTING AND GENERAL SERVICES | KA 'OIHANA LOIHELU A LAWELAWE LAULĀ
P.O. BOX 119, HONOLULU, HAWAII 96810-0119

(P)26.018

FEB 12 2026

Clifton Miyasaki
Fukunaga & Associates, Inc.
1357 Kapiolani Blvd., Suite 1530
Honolulu, Hawaii 96814

Dear Clifton Miyasaki:

Subject: Early Consultation Request
Lahaina Force Main No. 3 Replacement Project
Southbound Lanes and Shoulder of the Honoapiilani Highway
TMK: (2) 4-5-014:077; (2) 4-5-021:007; (2) 4-5-021:025; (2) 4-5-030:015;
(2) 4-5-030:137

Thank you for the opportunity to comment on the subject project. We have no comments to offer at this time. The Department of Accounting and General Services has various properties in close proximity to the subject project, and therefore, we request to be informed of any progress and review of future developments.

If you have any questions, your staff may call Lawrence Benavente of the Planning Branch at (808) 586-0499.

Sincerely,

GORDON S. WOOD
Public Works Administrator

LB:mo
c: Wade Shimabukoro, DAGS MDO



FUKUNAGA & ASSOCIATES, INC.
CONSULTING ENGINEERS

February 18, 2026

Gordon S. Wood, Public Works Administrator
State of Hawaii
Department of Accounting and General Services
Office of the Comptroller
P.O. Box 119
Honolulu, HI 96810-0119

Dear Gordon S. Wood:

Subject: Response to Early Consultation Request Comments
Lahaina Force Main No. 3 Replacement Project
Southbound Lanes and Shoulder Lane of Honoapiilani Highway
TMK: (2) 4-5-014:077; (2) 4-5-021:007; (2) 4-5-021:025; (2) 4-5-030:015;
(2) 4-5-030:137

Thank you for your letter dated February 12, 2026, providing early consultation comments on the subject project.

We appreciate the input provided by your office and will transmit a copy of the Draft EA when published for review and comment. Should you have any questions please feel free to contact me at 808-944-1821.

Sincerely,
FUKUNAGA & ASSOCIATES, INC.

Clifton Miyasaki, Project Engineer

cc: Juan Rivera, County of Maui, DEM-WWRD

Clifton Miyasaki

From: Severn, Raymond S <raymond.severn@hawaii.gov>
Sent: Friday, February 13, 2026 8:40 AM
To: Clifton Miyasaki
Subject: DLNR Response re Lahaina Force Main No 3 Replacement DEA
Attachments: 2026 02 12 EC DEA response for Lahaina Force Main Project - Reply Ltr - Esign Review (part 1) - signed.pdf; 2026 02 12 EC DEA response for Lahaina Force Main Project - Reply Ltr - Esign Review (part 2) - signed.pdf

External Sender - From: ("Severn, Raymond S"
<raymond.severn@hawaii.gov>)
This message came from outside your organization.

[Learn More](#)

Aloha Clifton,

Here is the only DLNR response received to date for your records.

If we receive any late comments, we will forward those to you for your records.

Please let me know if you have any questions.

Mahalo,
Ray

Raymond Severn AICP
Planner
Department of Land and Natural Resources – Land Division
Kalanimoku Building
1151 Punchbowl Street, Room 220
Honolulu, Hawaii 96813
808-587-0554

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JOSH GREEN, M.D.
GOVERNOR | KE KIA'ĀINA

SYLVIA LUKE
LIEUTENANT GOVERNOR | KA HOPE KIA'ĀINA



DAWN N. S. CHANG
CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE
MANAGEMENT

STATE OF HAWAII | KA MOKU'ĀINA 'O HAWAII'
DEPARTMENT OF LAND AND NATURAL RESOURCES
KA 'OIHANA KUMUWAIWAI 'ĀINA
LAND DIVISION

P.O. BOX 621
HONOLULU, HAWAII 96809

January 21, 2026

MEMORANDUM

FROM: ~~TO:~~

DLNR Agencies:

- Div. of Aquatic Resources (kendall.i.tucker@hawaii.gov)
- Div. of Boating & Ocean Recreation (richard.t.howard@hawaii.gov)
- Engineering Division (DLNR.ENGR@hawaii.gov)
- Div. of Forestry & Wildlife (rubyrosa.t.terrago@hawaii.gov)
- Div. of State Parks (curt.a.cottrell@hawaii.gov)
- Commission on Water Resource Management (DLNR.CWRM@hawaii.gov)
- Office of Conservation & Coastal Lands (sharleen.k.kuba@hawaii.gov)
- Land Division – Maui District (dlnr.land.maui@hawaii.gov)
- Aha Moku Advisory Committee (leimana.k.damate@hawaii.gov)

TO: FROM:

Lauren Yasaka, Acting Administrator

SUBJECT:

Early consultation for a Draft Environmental Assessment (DEA) for the Lahaina Force Main No. 3 Replacement Project

LOCATION:

TMK: (2) 4-5-014:077; (2) 4-5-021:007; (2) 4-5-021:025; (2) 4-5-030:015; (2) 4-5-030:137, Lahaina, Maui

APPLICANT:

Fukunaga & Associates, Consulting Engineers on behalf of Maui County, Department of Environmental Management Wastewater Reclamation Division (DEM-WWRD), applicants.

Transmitted for your review and comment is information on the above-referenced subject matter. Please submit comments by **February 12, 2026**. If no response is received by the above date, we will assume your agency has no comments. Should you have any questions about this request, please contact Raymond Severn at raymond.severn@hawaii.gov. Thank you.

BRIEF COMMENTS:

- We have no objections.
- We have no comments.
- We have no additional comments.
- Comments are included/attached.

Signed:

Print Name:

Dina U. Lau, Acting Chief Engineer

Division:

Engineering Division

Date:

02/05/2026

Attachments

cc: Central Files

JOSH GREEN, M.D.
GOVERNOR | KE KIA'ĀINA

SYLVIA LUKE
LIEUTENANT GOVERNOR | KA HOPE KIA'ĀINA



DAWN N. S. CHANG
CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE
MANAGEMENT

STATE OF HAWAII | KA MOKU'ĀINA 'O HAWAII'
DEPARTMENT OF LAND AND NATURAL RESOURCES
KA 'OIHANA KUMUWAIWAI 'ĀINA
LAND DIVISION

P.O. BOX 621
HONOLULU, HAWAII 96809

February 12, 2026

Clifton Miyasaki, Project Engineer
Fukunaga & Associates, Inc.
1357 Kapiolani Blvd., Suite 1530
Honolulu, Hawaii'i 96814

via email: cmiyasaki@fukunagaengineers.com

SUBJECT: Early consultation for a Draft Environmental Assessment (DEA) for the Lahaina Force Main No. 3 Replacement Project at TMK: (2) 4-5-014:077; (2) 4-5-021:007; (2) 4-5-021:025; (2) 4-5-030:015; (2) 4-5-030:137, Lahaina, Maui.

Dear Mr. Miyasaki:

Thank you for the opportunity to review and comment on the subject matter. The Land Division of the Department of Land and Natural Resources (DLNR) distributed or made available a copy of your request pertaining to the subject matter to DLNR's Divisions for their review and comments.

Currently we have received one comment from the Engineering Division dated February 5, 2026, for your records. If we receive additional comments, we will forward these to you as we receive them, for your records.

If you have any questions, please contact Raymond Severn at (808) 587-0554 or email raymond.severn@hawaii.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "L. Yasaka".

Lauren E. Yasaka,
Acting Administrator

Enclosures
cc: Central Files

Clifton Miyasaki

From: Clifton Miyasaki
Sent: Wednesday, February 18, 2026 7:42 AM
To: 'Severn, Raymond S'
Cc: Juan Rivera; Kylie A. Taketa; Amanda Waki
Subject: RE: DLNR Response re Lahaina Force Main No 3 Replacement DEA
Attachments: 2026 02 12 EC DEA response for Lahaina Force Main Project - Reply Ltr - Esign Review (part 1) - signed.pdf; 2026 02 12 EC DEA response for Lahaina Force Main Project - Reply Ltr - Esign Review (part 2) - signed.pdf

Raymond,

Thank you for your email dated February 13, 2026, providing early consultation comments on the subject project.

We appreciate the input provided by your office and will transmit a copy of the Draft EA when published for review and comment. Should you have any questions please feel free to contact me at 808-944-1821.

Thank you
Clifton Miyasaki
Fukunaga and Associates, Inc.
1357 Kapiolani Blvd., Ste. 1530
Honolulu, HI 96814

From: Severn, Raymond S <raymond.severn@hawaii.gov>
Sent: Friday, February 13, 2026 8:40 AM
To: Clifton Miyasaki <cmiyasaki@fukunagaengineers.com>
Subject: DLNR Response re Lahaina Force Main No 3 Replacement DEA

External Sender - From: ("Severn, Raymond S"
<raymond.severn@hawaii.gov>)
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Aloha Clifton,

Here is the only DLNR response received to date for your records.

If we receive any late comments, we will forward those to you for your records.

Please let me know if you have any questions.

Mahalo,
Ray

Raymond Severn AICP
Planner

Department of Land and Natural Resources – Land Division
Kalanimoku Building
1151 Punchbowl Street, Room 220
Honolulu, Hawaii 96813
808-587-0554

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Clifton Miyasaki

From: Li, Shichao <shichao.li@hawaii.gov>
Sent: Friday, February 13, 2026 7:39 AM
To: Clifton Miyasaki
Subject: Early Consultation Request for Lahaina Force Main No.#3 Replacement Project
Attachments: OPSD-Maui-Lahaina-Force#3-PreEA.pdf

External Sender - From: ("Li, Shichao" <shichao.li@hawaii.gov>)

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This message came from outside your organization.

Hi, Mr. Miyasaki:

Attached is the letter of comments from the State of Hawaii Office of Planning and Sustainable Development on your pre-EA consultation request for the Lahaina Force Main #3 Replacement Project.

Thank you!



Shichao Li, Senior Planner
State of Hawai'i Office of Planning &
Sustainable Development (OPSD)
235 S. Beretania Street, 6th Floor
P. O. Box 2359, Honolulu, HI 96804
(808) 587-2841
planning.hawaii.gov

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**STATE OF HAWAII
OFFICE OF PLANNING
& SUSTAINABLE DEVELOPMENT**

JOSH GREEN, M.D.
GOVERNOR

SYLVIA LUKE
LT. GOVERNOR

MARY ALICE EVANS
DIRECTOR

235 South Beretania Street, 6th Floor, Honolulu, Hawai'i 96813
Mailing Address: P.O. Box 2359, Honolulu, Hawai'i 96804

Telephone: (808) 587-2846
Fax: (808) 587-2824
Web: <https://planning.hawaii.gov/>

DTS202601141214MO

Coastal Zone
Management
Program

February 12, 2026

Environmental Review
Program

Land Use Commission

Land Use Division

Special Plans Branch

State Transit-Oriented
Development

Statewide Geographic
Information System

Statewide
Sustainability Branch

Mr. Clifton Miyasaki
Fukunaga & Associates, Inc.
1357 Kapiolani Blvd. Suite 1530
Honolulu, Hawai'i 96814

Dear Mr. Miyasaki

Subject: Early Consultation Request for Lahaina Force Main No.3 Replacement Project; Lahaina, Maui; Tax Map Key: (2) 4-5-014: 077; (2) 4-5-021: 007 and 025; (2) 4-5-030: 015 and 137

The Office of Planning and Sustainable Development (OPSD) is in receipt of your early consultation request, received January 14, 2026, for the preparation of an Environmental Assessment (EA) for the proposed Lahaina Force Main No.3 Replacement Project, Island of Maui.

The existing Lahaina Force Main No. 3 is part of the wastewater collection system that transports wastewater to the Lahaina Wastewater Reclamation Facility for treatment, reuse, and/or disposal. To upgrade the County of Maui wastewater collection system, the Department of Environmental Management Wastewater Reclamation Division proposes to replace the existing 20-inch sewer force main from the Lahaina 3 Pump Station to a valve vault near the Old Lahaina 3 Pump Station. The proposed sewer force main, 20-inch in diameter and approximately 2,000 linear feet, will be slightly realigned to generally be located within Wahikuli Terrace Access Road, Malo Street, and crossing Honoapiilani Highway near the subject valve vault. The proposed force main will be installed by open cut trenching and the disturbed surface will be restored to its original condition. The existing force main will be abandoned in place once the proposed force main is online.

The OPSD has reviewed the comment request and has the following comments to offer:

1. The EA should discuss the triggers for the preparation of an EA, as well as a list of all required permits and approvals. Furthermore, the EA should contain the project location maps, including the regional

Mr. Clifton Miyasaki
February 12, 2026
Page 2

location on the Island of Maui, and provide schematic plans or drawing for the scope of the project.

2. The Hawai'i Coastal Zone Management (CZM) Law requires all state and county agencies to comply with the CZM objectives and policies. Pursuant to Hawai'i Revised Statutes (HRS) § 205A-4, in implementing the objectives of the CZM Program, agencies shall give a full consideration to ecological, cultural, historic, esthetic, recreational, scenic, and open space values, and coastal hazards, as well as to needs for economic development. Including site-specific mitigation measures, the subject EA should disclose how the proposed project will conform to applicable CZM objectives and policies set forth in HRS § 205A-2, as amended.
3. Hawai'i Sea Level Rise Viewer at <https://www.pacioos.hawaii.edu/shoreline/slr-hawaii/> particularly identifies a 3.2-foot sea level rise exposure area across the main Hawaiian Islands which may occur in the mid to latter half of the 21st century. The EA should provide a map of the 3.2-foot sea level rise exposure area, including passive flooding, high wave flooding and shoreline erosion, in relation to the project area, and assess the potential impacts of sea level rise, including inundation of saltwater, on the proposed structures and underground wastewater system.
4. Given that the project area is located within the County of Maui designated Special Management Area (SMA), the County of Maui Planning Department should be consulted about the requirement for SMA permitting and compliance with the shoreline setbacks.
5. Site-specific Best Management Practices should be developed and implemented to prevent any runoff, sediment, soil and debris potentially resulting from associated construction activities from adversely impacting coastal ecosystems and the State waters as specified in Hawai'i Administrative Rules Chapter 11-54.

If you respond to this comment letter, please include DTS202601141214MO in the subject line. For any questions regarding this letter, please contact Shichao Li of our office at (808) 587-2841 or by email at shichao.li@hawaii.gov.

Sincerely,


Mary Alice Evans
Director

Clifton Miyasaki

From: Clifton Miyasaki
Sent: Wednesday, February 18, 2026 8:09 AM
To: Li, Shichao
Cc: Juan Rivera; Kylie A. Taketa; Amanda Waki
Subject: RE: Early Consultation Request for Lahaina Force Main No.#3 Replacement Project
Attachments: OPSD-Maui-Lahaina-Force#3-PreEA.pdf

To Shichao Li

Thank you for your email dated February 13, 2026, with attachment letter from Director Mary Alice Evans, providing early consultation comments on the subject project. We offer the following in response to the comments provided.

Comment/Question:

1. The EA should discuss the triggers for the preparation of an EA, as well as a list of all required permits and approvals. Furthermore, the EA should contain the project location maps, including the regional location on the Island of Maui, and provide schematic plans or drawing for the scope of the project.

Response:

Triggers for the EA, list of required permits and approvals, project location maps and plans to show the scope of the project will be included in the draft EA.

Comment/Question:

2. The Hawaii Coastal Zone Management (CZM) Law requires all state and county agencies to comply with the CZM objectives and policies. Pursuant to Hawaii Revised Statutes (HRS)§ 205A-4, in implementing the objectives of the CZM Program, agencies shall give a full consideration to ecological, cultural, historic, esthetic, recreational, scenic, and open space values, and coastal hazards, as well as to needs for economic development. Including site-specific mitigation measures, the subject EA should disclose how the proposed project will conform to applicable CZM objectives and policies set forth in HRS § 205A-2, as amended.

Response

Discussion on how the project will comply with CZM objectives and policies will be included in the draft EA.

Comment/Question:

3. Hawai'i Sea Level Rise Viewer at <https://www.pacioos.hawaii.edu/shoreline/slrhawaii/> particularly identifies a 3.2-foot sea level rise exposure area across the main Hawaiian Islands which may occur in the mid to latter half of the 21 st century. The EA should provide a map of the 3.2-foot sea level rise exposure area, including passive flooding, high wave flooding and shoreline erosion, in relation to the project area, and assess the potential impacts of sea level rise, including inundation of saltwater, on the proposed structures and underground wastewater system.

Response

A map of the sea level rise exposure area and assessment of potential impacts of sea level rise will be included in the draft EA.

Comment/Question:

4. Given that the project area is located within the County of Maui designated Special Management Area (SMA), the County of Maui Planning Department should be consulted about the requirement for SMA permitting and compliance with the shoreline setbacks.

Response

Discussion of how the project will be in compliance with SMA rules will be included in the draft EA.

Comment/Question:

5. Site-specific Best Management Practices should be developed and implemented to prevent any runoff, sediment, soil and debris potentially resulting from associated construction activities from adversely impacting coastal ecosystems and the State waters as specified in Hawai'i Administrative Rules Chapter 11-54.

Response

A discussion of applicable site specific BMPs to prevent runoff, sediment, soil, and debris from construction activities adversely impacting State waters will be included in the draft EA.

We appreciate the input provided by your office and will transmit a copy of the Draft EA when published for review and comment. Should you have any questions, please feel free to contact me at 808-944-1821.

Thank you,
Clifton Miyasaki
Fukunaga and Associates, Inc.
1357 Kapiolani Blvd. Ste. 1530
Honolulu, HI 96814

From: Li, Shichao <shichao.li@hawaii.gov>
Sent: Friday, February 13, 2026 7:39 AM
To: Clifton Miyasaki <cmiyasaki@fukunagaengineers.com>
Subject: Early Consultation Request for Lahaina Force Main No.#3 Replacement Project

External Sender - From: ("Li, Shichao" <shichao.li@hawaii.gov>)
This message came from outside your organization.

[Learn More](#)

Hi, Mr. Miyasaki:

Attached is the letter of comments from the State of Hawaii Office of Planning and Sustainable Development on your pre-EA consultation request for the Lahaina Force Main #3 Replacement Project.

Thank you!



Shichao Li, Senior Planner
State of Hawai'i Office of Planning &
Sustainable Development (OPSD)
235 S. Beretania Street, 6th Floor
P. O. Box 2359, Honolulu, HI 96804
(808) 587-2841
planning.hawaii.gov

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Clifton Miyasaki

From: Lou K. Moniz <Lou.K.Moniz@co.maui.hi.us>
Sent: Thursday, February 19, 2026 4:07 PM
To: planning zoningdivision; Danny A. Dias; Collette Cardoza; Robin M. Liles; Clifton Miyasaki
Subject: RFC\2026\00015_LahainaForceMain\Comment Letter.pdf
Attachments: Comment Letter.pdf

External Sender - From: ("Lou K. Moniz"
<Lou.K.Moniz@co.maui.hi.us>)
This message came from outside your organization.

[Learn More](#)

Aloha and Good Afternoon,

Please see attached Comment Letter!

Mahalo,

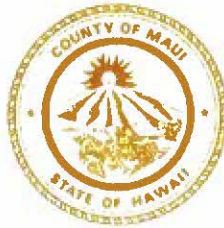
Kahili L. Moniz
One Main Plaza
2200 Main Street, Suite 619
Wailuku, HI 96793
(808) 270-8205
lou.k.moniz@mauicounty.gov

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RICHARD T. BISSEN, JR.
Mayor

JACKY TAKAKURA
Acting Director

ANA LILLIS
Deputy Director



DEPARTMENT OF PLANNING
COUNTY OF MAUI
ONE MAIN PLAZA
2200 MAIN STREET, SUITE 315
WAILUKU, MAUI, HAWAI'I 96793

February 19, 2026

Mr. Clifton Miyasaki, Project Engineer
Fukunaga & Associates, Inc.
1357 Kapiolani Boulevard, Suite 1530
Honolulu, Hawai'i 96814

Dear Mr. Miyasaki:

SUBJECT: REQUEST FOR COMMENTS ON THE PROPOSED LAHAINA FORCE MAIN NO. 3 REPLACEMENT PROJECT, LOCATED WITHIN THE EXISTING RIGHT-OF-WAY ALONG HONOAPI'ILANI HIGHWAY, LAHAINA, ISLAND OF MAUI, HAWAI'I; TMKS: (2) 4-5-014:077, (2) 4-5-021:007, (2) 4-5-021:025, (2) 4-5-030:015, (2) 4-5-030:137, (RFC2026-00015)

The Department of Planning (Department) has received your request for early consultation and comments for the proposed Lahaina Force Main No. 3 Replacement Project (Project). The comments below pertain to project aspects under the purview of the Department, including its location within the Special Management Area (SMA) and the Shoreline Setback area.

Lahaina Force Main No. 3 Replacement Project

The proposed Project consists of replacing and installing approximately 2,000 linear feet of new 20-inch sewer force main from the Lahaina 3 Pump Station to a valve vault near the Old Lahaina 3 Pump Station. The existing force main infrastructure will be relocated from the southbound lanes and seaward shoulder of Honopi'ilani highway, to the landward side of the highway along Malo Street and Wahikuli Terrace Access Road. The new sewer force main will traverse through TMKs publicly owned by either the State of Hawai'i or the County of Maui.

Scoping Input for Environmental Assessment (EA)

Mr. Clifton Miyasaki
February 19, 2026
Page 2

After reviewing the Early Consultation documents, the Department has the following comments and recommendations for preparation of the Draft EA:

- Consider alternative routes located fully outside the shoreline setback and sea level rise hazard area.

Special Management Area (SMA)

Based on the submitted information and accompanying location map, the proposed Project is located entirely within the SMA. The project is subject to an assessment and a determination made by the Director as to whether it is a development and requires a SMA Use Permit or minor permit, or is an exempt action. An SMA Assessment application will be required. In accordance with Title MC-12, Chapter 202, Special Management Area Rules for the Maui Planning Commission and Hawai'i Revised Statutes (HRS) Chapter 205A-22, the project, as presented, would not be considered a development and would likely qualify as an exemption under:

- M. Installation of underground utility lines and appurtenant aboveground fixtures less than four feet in height along existing corridors;*

Shoreline Setback Area

A portion of the Project (north of Fleming Road to the Old Lahaina 3 Pump Station) is located within the shoreline setback area and the projected erosion hazard area associated with 3.2 feet of sea level rise. Pursuant to Title MC-12, Chapter 203, Shoreline Rules for the Maui Planning Commission §12-203-12(16), *allowable structures and activities within the shoreline area include the repair, construction, or reconstruction of critical public infrastructure beyond those activities otherwise allowed under §12-203-10.* A sewer force main is considered a critical component of a public sanitary sewer utility system. A Shoreline Setback Approval (SSAD) application will be required and is approvable administratively.

Thank you for the opportunity to comment on this project. Should you require further clarification, please contact Planner Robin Liles at robin.m.liles@co.maui.hi.us or at (808) 270-5529.

Sincerely,



DANNY A. DIAS
Planning Program Administrator

for JACKY TAKAKURA
Acting Director

Mr. Clifton Miyasaki
February 19, 2026
Page 3

cc: Danny A. Dias, Planning Program Administrator (PDF)
Collette Cardoza, Environmental Planning Supervisor (PDF)
Robin Liles, Planner (PDF)
Clifton Miyasaki, Fukunaga & Associates, Inc (PDF)

JMCT:DAD:RML:km

K:\WP_DOCS\Planning\RFC\2026\00015_LahainaForceMain\Comment Letter.pdf

Clifton Miyasaki

From: Clifton Miyasaki
Sent: Friday, February 27, 2026 7:44 AM
To: 'Lou K. Moniz'; planning zoningdivision; Danny A. Dias; Collette Cardoza; Robin M. Liles
Subject: RE: RFC\2026\00015_LahainaForceMain\Comment Letter.pdf
Attachments: 20260227 response letter to Maui Planning_scan.pdf

Kahili,

Thank you for your email dated February 19, 2026, providing early consultation comments on the subject project.

Please see the attached letter for response to the comments.

A hard copy of the attached letter is also being sent out today to your office.

Thank you
Clifton Miyasaki
Fukunaga and Associates, Inc.
1357 Kapiolani Blvd., Ste. 1530
Honolulu, HI 96814

From: Lou K. Moniz <Lou.K.Moniz@co.maui.hi.us>
Sent: Thursday, February 19, 2026 4:07 PM
To: planning zoningdivision <zoningdivision@co.maui.hi.us>; Danny A. Dias <Danny.Dias@co.maui.hi.us>; Collette Cardoza <Collette.Cardoza@co.maui.hi.us>; Robin M. Liles <Robin.M.Liles@co.maui.hi.us>; Clifton Miyasaki <cmiyasaki@fukunagaengineers.com>
Subject: RFC\2026\00015_LahainaForceMain\Comment Letter.pdf

External Sender - From: ("Lou K. Moniz"
<Lou.K.Moniz@co.maui.hi.us>)
This message came from outside your organization.

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Aloha and Good Afternoon,

Please see attached Comment Letter!

Mahalo,

Kahili L. Moniz
One Main Plaza
2200 Main Street, Suite 619
Wailuku, HI 96793
(808) 270-8205
lou.k.moniz@mauicounty.gov

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FUKUNAGA & ASSOCIATES, INC.
CONSULTING ENGINEERS

February 27, 2026

Danny A. Dias, Planning Program Administrator
County of Maui
Department of Planning
One Main Plaza
2200 Main Street, Suite 315
Wailuku, Maui, Hawaii 96793

Dear Danny A. Dias:

Subject: Response to Early Consultation Request Comments
Lahaina Force Main No. 3 Replacement Project
Located within the Existing Right-of-Way Along Honoapiilani Highway, Lahaina,
Island of Maui, Hawaii;
TMKs: (2) 4-5-014:077; (2) 4-5-021:007; (2) 4-5-021:025; (2) 4-5-030:015;
(2) 4-5-030:137, (RFC2026-00015)

Thank you for your letter dated February 19, 2026, providing early consultation comments on the subject project. We offer the following in response to the comments provided.

Comment/Question: Consider alternative routes located fully outside the shoreline setback and sea level rise hazard area

Response:

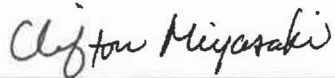
- Moving the force main (FM) out of the sea level rise exposure area (SLR-XA) should be implemented as part of the overall managed retreat planning effort that could include relocation of the highway and other properties to areas not affected by sea level rise. This will affect the population being served by the sewer system and could require changes including pump station relocations, force main relocations, and updated system sizing. The planning efforts for the managed retreat are not yet defined. Moving the FM as part of the overall managed retreat effort, such as when moving the highway and other major utilities, would provide better results because it can be integrated with the other necessary changes. The proposed project will serve the current public by providing wastewater service for the immediate and foreseeable future. With a typical design life of 50 years, the FM will likely require replacement prior to 2100.
- Approximately half of the proposed FM is within the SLR-XA. Alternative alignments to stay out of the SLR-XA and stay within existing Rights-of-Ways would extend the length of the FM from 2,200-ft to about 4,200-ft to 5,200-ft and would require a more mauka alignment. The alternative alignment would also have increased construction cost from the added length. It would also have increased operation and maintenance cost as well as increased energy requirements due to the pumping through added length and higher elevations.
- The draft EA will include discussion about the FM being located in the SLR-XA

Danny A. Dias
February 27, 2026
Page 2

We appreciate the information you provided on the SMA and Shoreline Setback Area. The SMA and shoreline requirements are noted and will be discussed in the draft EA.

We appreciate the input provided by your office and will transmit a copy of the Draft EA when published for review and comment. Should you have any questions please feel free to contact me at 808-944-1821.

Sincerely,
FUKUNAGA & ASSOCIATES, INC.



Clifton Miyasaki, Project Engineer

cc: Danny A. Dias, Planning Program Administrator
Robin Liles, Planner