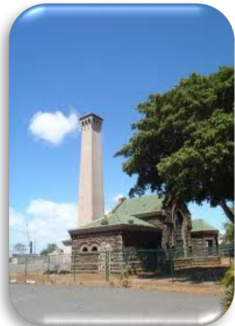


# STATE TRANSIT ORIENTED DEVELOPMENT COUNCIL

Timothy Houghton,  
ENV Deputy Director

# INTEGRATING GLOBAL CONSENT DECREE (GCD) TO AFFORDABLE HOUSING AND TOD

- ◉ GCD is the City's priority and may not address all of the capacity issues, but the City will be integrating affordable housing and TOD capacity requirements whenever possible.
- ◉ Where the City knows in advance the flow projections and project schedule, GCD-related as well as other projects are upsized to accommodate the additional capacity.
  - Cannot upsize arbitrarily due to odor and corrosion issues
- ◉ Some of the GCD projects may simultaneously benefit TOD.



# HONOULIULI BASIN PROJECTS

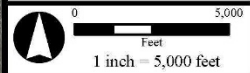
Service Layer Credits: DISCLAIMER: Information contained in these files is derived from public records that are constantly undergoing change and does not replace a site survey. The data and information are not warranted for content or accuracy. The State of Hawai'i does not guarantee the positional or thematic accuracy of the GIS data. The GIS data or cartographic digital files are not a legal representation of any of the features which that depicts and the State disclaims any assumption of the legal status which the data represents. Any implied warranties, including warranties of merchantability or fitness for a particular purpose, shall be expressly excluded. The State of Hawai'i encourages GIS data users to verify the suitability of the data before use. Please report any discrepancies to [gis@hawaii.gov](mailto:gis@hawaii.gov).



## City and County of Honolulu

### HONOULIULI/ WAIPAHU/ PEARL CITY WASTEWATER CONVEYANCE FACILITIES

- Legend**
- PS Existing WWPS
  - Interstate Highway
  - East Interceptor
  - Force Main
  - Major Sewer Main



- |   |                                 |
|---|---------------------------------|
| 1 | Halawa Force Main               |
| 2 | Waimalu Influent Trunk Sewer    |
| 3 | Waimalu Force Main              |
| 4 | Pearl City Influent Trunk Sewer |
| 5 | Pearl City Dual Force Main      |
| 6 | Waipahu Force Main              |
| 7 | 84-inch Honouliuli Interceptor  |



**FIGURE 1-2**  
**EXISTING HONOULIULI EAST INTERCEPTOR SYSTEM**  
March 2019

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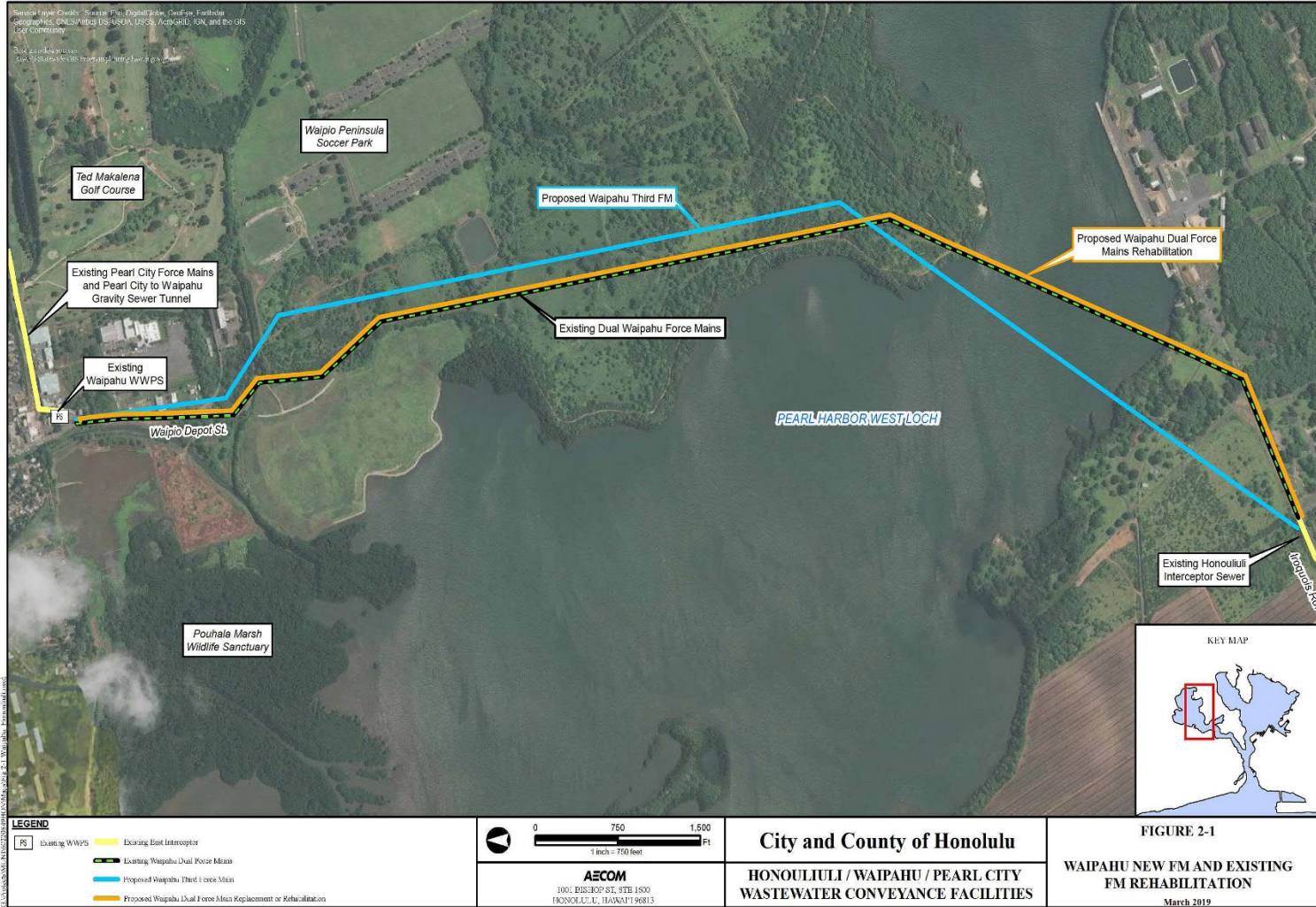
G:\Projects\MUNI\0220849-HON\Maps\Fig 1-2\_Honouliuli\_East\_Interceptor\_System.mxd

Base map data sources:  
Hawaii Statewide GIS Program [planning.hawaii.gov/gis/](http://planning.hawaii.gov/gis/)

# HONOLULI WWTP PROJECT

Project Name	Project Scope	Project Objectives	Construction Timeframe
Honouliuli WWTP head works, pump station, energy savings, solids process upgrades & Misc. Improvements.	Project includes upgrades to the head works, including the influent screening, influent pump station and grit treatment systems.	Add capacity to the head works and influent pump stations. Project also includes various treatment and efficiency upgrades.	2022-2025

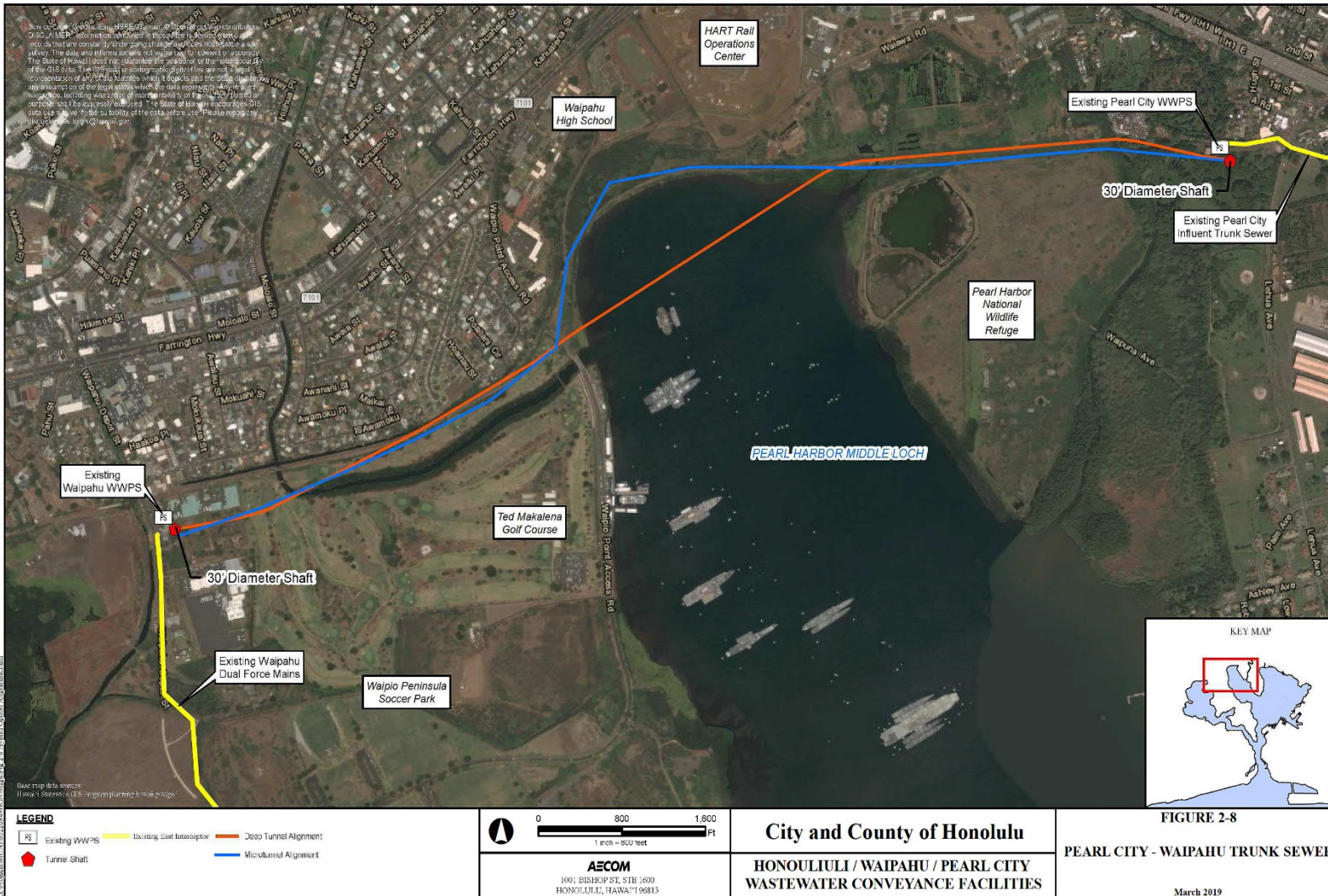
# WAIPAHU PROJECTS



# WAIPAHU PROJECTS REVIEW

Project Name	Project Scope	Project Objectives	Construction Timeframe
Waipahu WWPS Force Main (New)	Add third force main between Waipahu WWPS and Geiger Road manhole	Add capacity Provide extra force main so existing force mains can be rehabilitated	2022-2026
Waipahu WWPS Force Mains Rehabilitation	Rehabilitate existing force mains	Rehabilitate force mains to maintain reliability of service and maximize capacity	2026-2028
Waipahu WWPS #2	Add pump station to accommodate Pearl City - Waipahu Trunk Sewer	Provide lift from new sewer tunnel to existing force mains, pump to Geiger Road	2029-2032

# PEARL CITY PROJECTS



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# PEARL CITY PROJECTS REVIEW

Project Name	Project Scope	Project Objectives	Construction Timeframe
Pearl City WWPS, Force Main, and Sewer System Alternatives	Rehabilitate Pearl City pump station	Rehabilitate and upgrade the pump station to maintain system reliability, prevent flood damage, and miscellaneous improvements	2019-2021
Pearl City-Waipahu Trunk Sewer	Install gravity sewer Microtunnel between Pearl City WWPS and Waipahu WWPS	Add capacity Replace long force mains with gravity sewers for more reliability, less maintenance. Allow decommissioning of Pearl City WWPS	2028-2031
Pearl City Trunk Sewers- Rehabilitation and Replacement	Replace or rehabilitate existing trunk sewers upstream of Pearl City WWPS	Add capacity if needed Rehabilitate or replace existing sewers to maintain reliability and maximize capacity	2031-2033
Pearl City WWPS - Demolition	Demolish Pearl City WWPS	Demolish Pearl City WWPS after installation of Pearl City-Waipahu Trunk Sewer	2033-2035



# WAIAWA PROJECTS

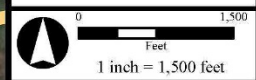


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Base map data sources:  
Hawaii Statewide GIS Program [planning.hawaii.gov/gis/](http://planning.hawaii.gov/gis/)

## City and County of Honolulu HONOULIULI/ WAIPAHU/ PEARL CITY FACILITIES PLAN

- Legend**
- PS Existing WWPS
  - East Interceptor
  - Corridor A
  - Corridor D
  - Corridor G
  - Waiawa Ridge Parcel



**FIGURE 2-10  
WAIAWA AREA  
CONVEYANCE  
CORRIDORS**

March 2019

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# WAIAWA PROJECT REVIEW

Project Name	Project Scope	Project Objectives	Construction Timeframe
Pearl Highlands and Waiawa Development Alternatives	Upgrade system for future TOD development by Pearl Highlands Rail Station, Waiawa Ridge Development	Add capacity	To be determines (Post-2032) Requires Waipahu and Pearl City system upgrades

# WAIMALU PROJECTS



LEGEND	
	Existing WWPS
	Existing East Interceptor
	Proposed New Waimalu Force Main
	Transition Manhole
	Existing Pearl City Influent Trunk Sewer
	Proposed New Pearl City Influent Trunk Sewer
	Existing Waimalu Force Main

0 500 1,000  
Ft  
1 inch = 500 feet

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**City and County of Honolulu**  
**HONOLULU / WAIPAHU / PEARL CITY**  
**WASTEWATER CONVEYANCE FACILITIES**

**FIGURE 2-2**  
**PEARL CITY TRUNK SEWERS**  
**REHABILITATION/REPLACEMENT AND**  
**NEW WAIMALU WWPS FM**  
March 2019

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# WAIMALU PROJECTS REVIEW

Project Name	Project Scope	Project Objectives	Construction Timeframe
Waimalu WWPS Modification/Upgrade	Upgrade Waimalu Pump Station	Add capacity Rehabilitate and upgrade the pump station	2019-2021
Waimalu WWPS Force Main (New)	Replace existing Waimalu force main	Add capacity if needed Relocate and replace existing force main to maintain reliability	2030-2035
Waimalu WWPS - Reconstruct/Replace	Replace or rehabilitate existing WWPS	Add capacity if needed Rehabilitate or replace existing WWPS to maintain reliability of service	2031-2034
Waimalu Trunk Sewers -Rehabilitation/ Replacement	Replace or rehabilitate existing trunk sewers upstream of Waimalu WWPS	Add capacity if needed Rehabilitate or replace existing sewers to maintain reliability and maximize capacity	2034-2037

# HALAWA PROJECTS



**LEGEND**

PS	Existing WWPS	Proposed Halawa Force Main	Existing Halawa Force Main
Transition Manhole	Existing Waimalu Influent Trunk Sewer	Proposed Waimalu Influent Trunk Sewer	Existing Waimalu Influent Trunk Sewer
Existing Waimalu Force Main	Existing Waimalu WWPS	Existing Waimalu Interceptor	



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**City and County of Honolulu**  
**HONOLULU / WAIPAHU / PEARL CITY**  
**WASTEWATER CONVEYANCE FACILITIES**

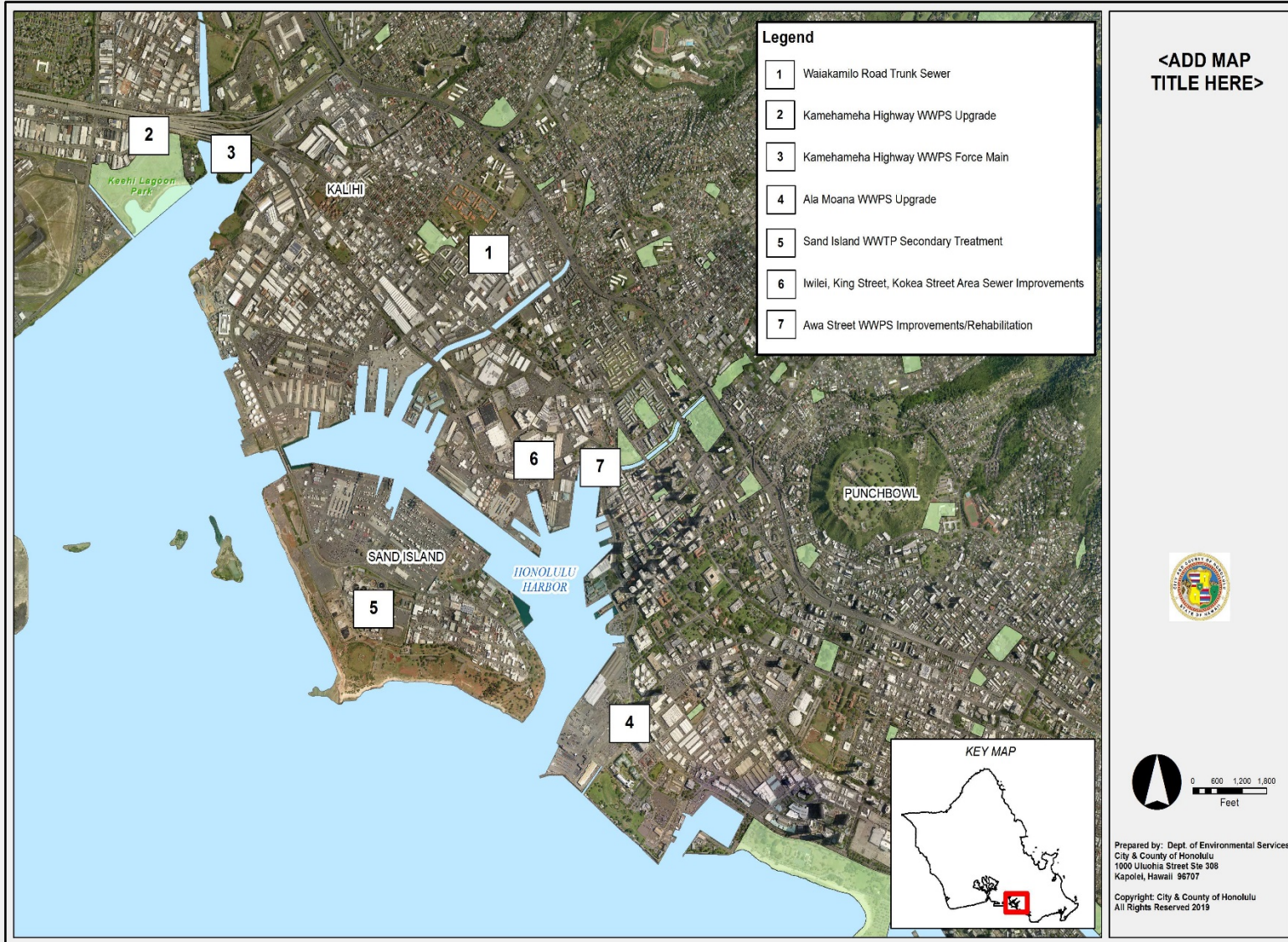
**FIGURE 2-4**  
**WAIMALU TRUNK SEWERS AND**  
**NEW HALAWA FM**  
 March 2019

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# HALAWA PROJECTS REVIEW

Project Name	Project Scope	Project Objectives	Construction Timeframe
Halawa WWPS Force Main (New)	Replace existing Halawa force main	Add capacity if needed Relocate and replace existing force main to maintain reliability, lower the pumping head	2034-2036 Schedule may be affected by Aloha Stadium redevelopment
Halawa WWPS - Reconstruct/Replace	Replace or rehabilitate existing WWPS	Add capacity if needed Rehabilitate or replace existing WWPS to maintain reliability of service	2035-2038 Schedule may be affected by Aloha Stadium redevelopment

# SAND ISLAND BASIN PROJECTS



# SAND ISLAND PROJECTS REVIEW

Project Name	Project Scope	Project Objectives	Construction Timeframe
Awa Street WWPS, Force Main/Sewer System Improvements-Waiakamilo Road Trunk Sewer	New trunk sewer in Waiakamilo Road, from Nimitz Hwy to School St.	Add capacity in Iwilei and Kalihi Kai areas	2018-2020
Kamehameha Highway WWPS Upgrade, Mapunapuna	Upgrade to Kamehameha Hwy WWPS	Add capacity, Rehabilitate and upgrade the pump station	2018-2020
Kamehameha Highway WWPS Force Main	Second force main	Consent Decree compliance, improve force main redundancy	2018-2020
Ala Moana WWPS Upgrade	Upgrade Ala Moana WWPS	Add capacity Rehabilitate and upgrade the pump station	2019-2021
Sand Island WWTP Secondary Treatment, (includes multiple phases)	Upgrade to secondary treatment, miscellaneous improvements	Consent Decree compliance, meet capacity needs	2020-2035
Iwilei, King St, Kokea St Area Sewer Improvements	Gravity sewer improvements	Add capacity, rehabilitate to maximize capacity in vicinity of King St., Liliha St., Kokea St., Iwilei	2022-2025
Awa Street WWPS Improvements/Rehab	Upgrade to Awa Street WWPS	Add capacity, Rehabilitate and upgrade the pump station	2023-2025



# INTEGRATING GCD AND OTHER OPPORTUNITIES

- ◉ As the City realizes cost savings from GCD Rehabilitation & Replacement projects, it can be applied to capacity projects.
- ◉ Second Digester construction completed in 2017 added solids capacity at SIWWTP for Metro development.
- ◉ Planning funds included in FY19 to analyze TOD capacity requirements.

