

Honouliuli Wastewater Treatment Plant Secondary Treatment and Support Facilities

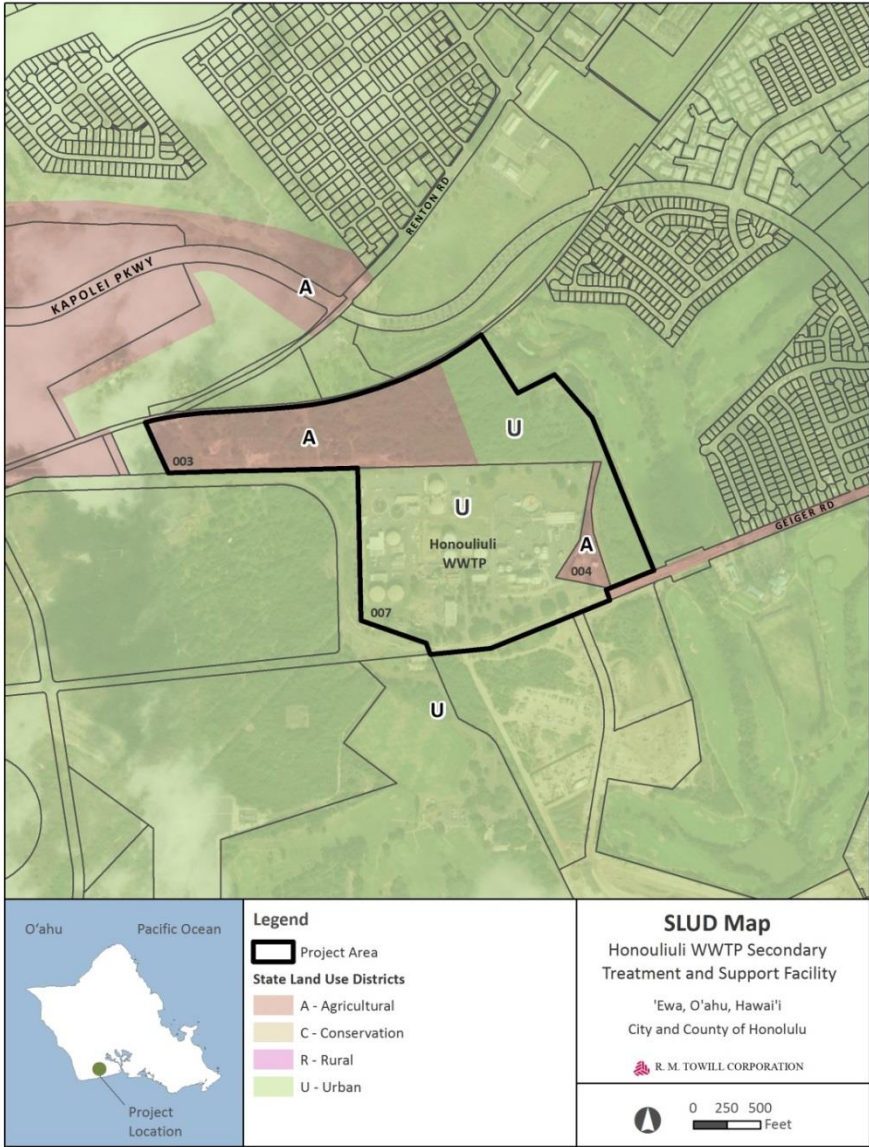


Department of Environmental Services
City and County of Honolulu

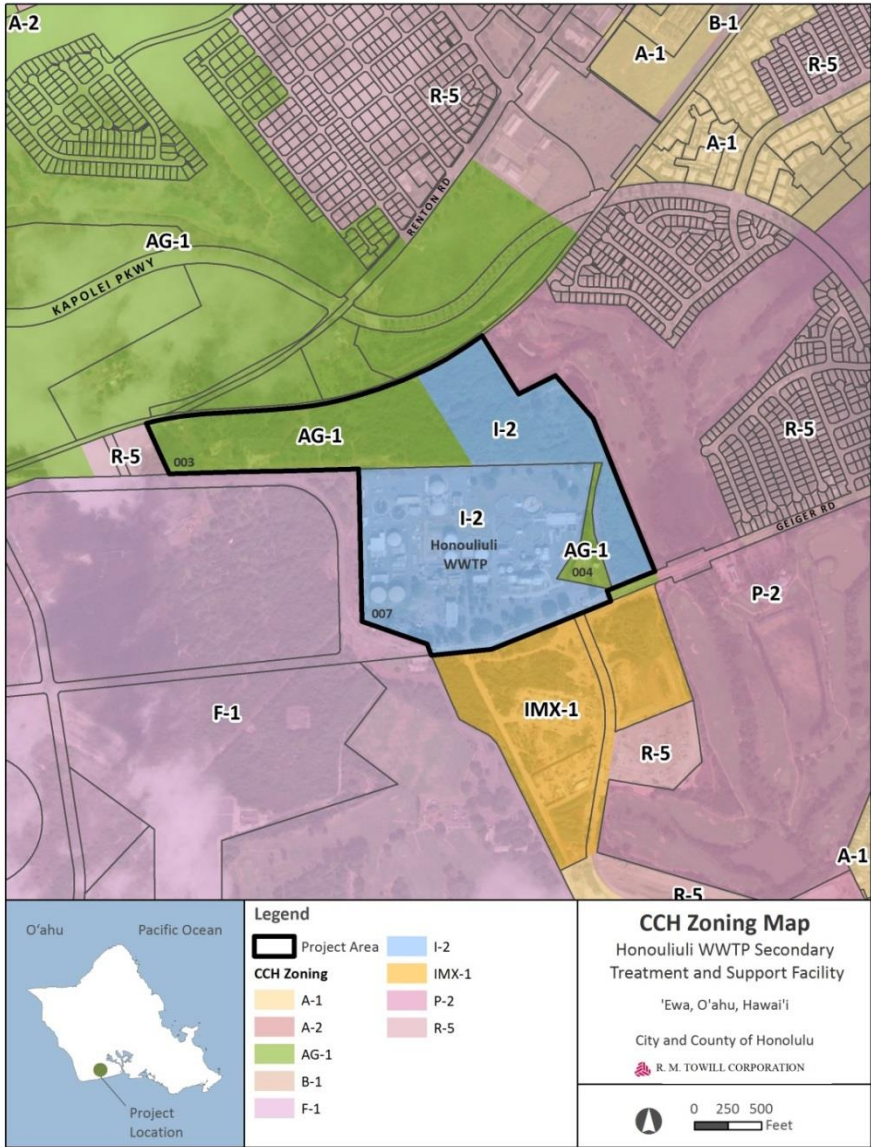
Planning Commission Hearing
September 13, 2017

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

State Land Use Districts and CCH Zoning

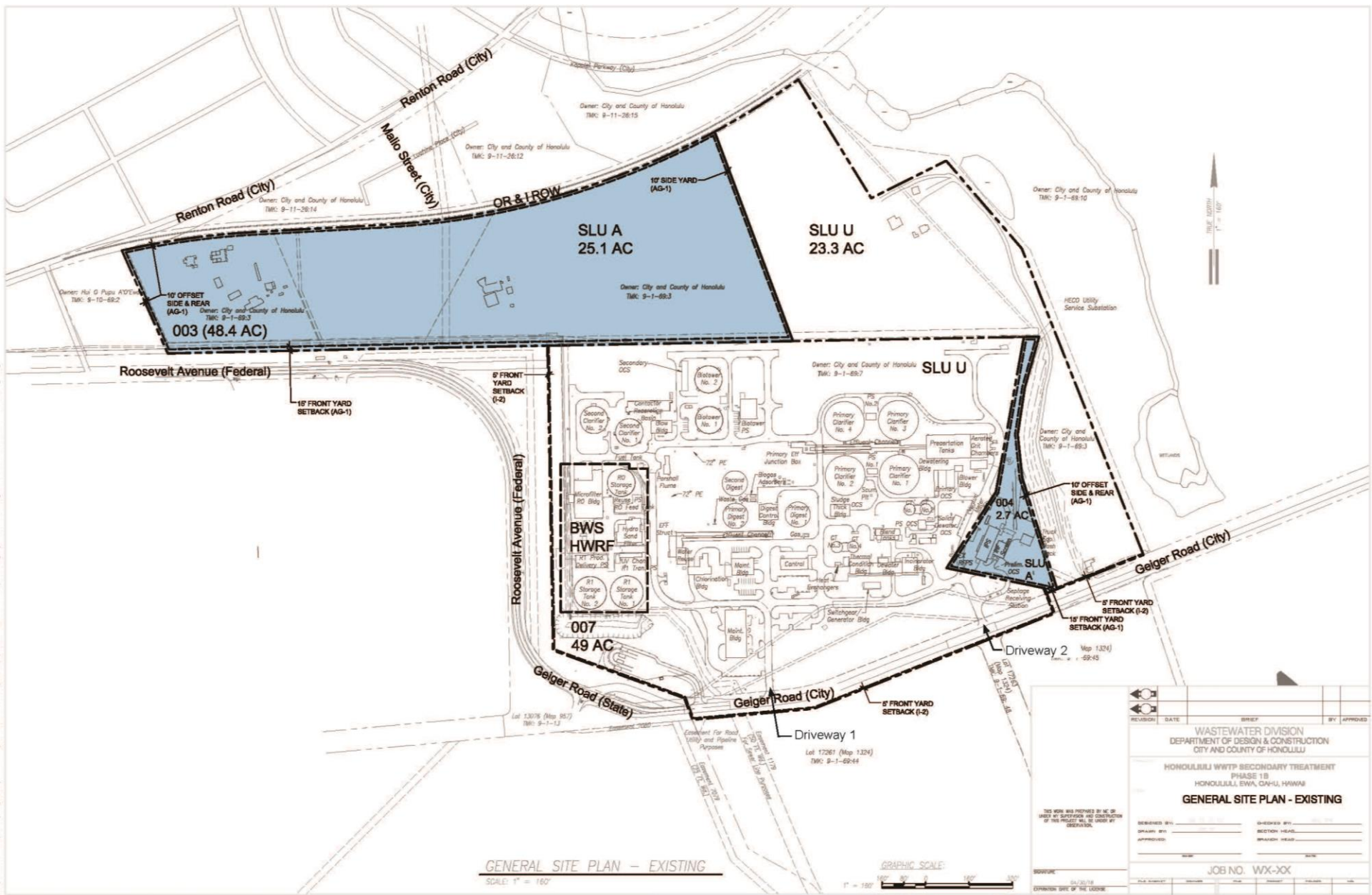


Sources: Esri, State Land Use Commission, USGS



Sources: Esri, City and County of Honolulu, USGS

Existing – General Site Plan



Consent Decree Requirements

The 2010 First Amended Consent Decree between CCH, State DOH, and the EPA requires CCH to upgrade and expand the Honouliuli WWTP to provide secondary treatment.

Key Dates:

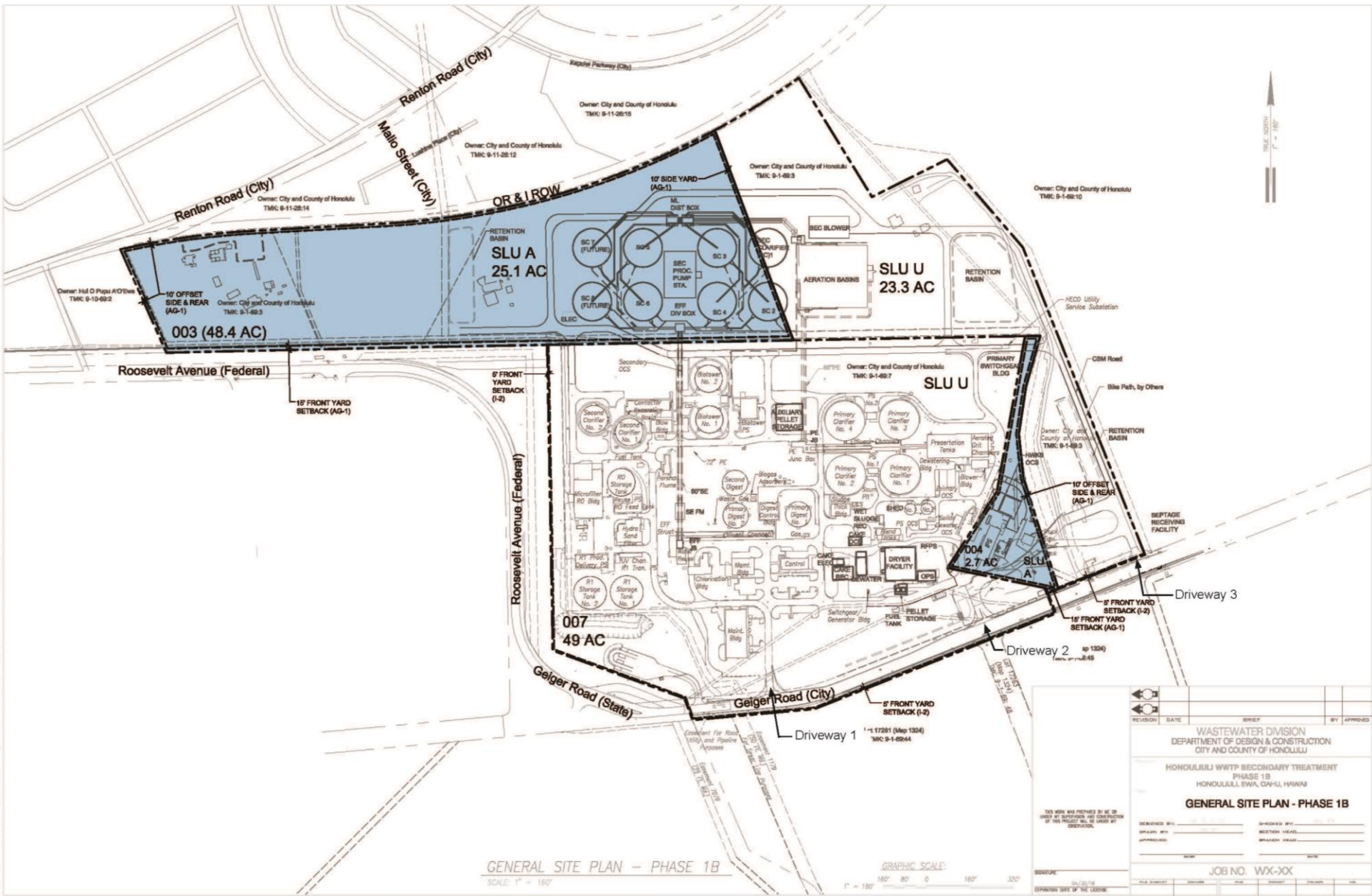
- **January 1, 2019**

Notice-to-proceed for construction of all secondary treatment facilities necessary to comply with secondary treatment standards for all wastewater discharges.

- **June 1, 2024**

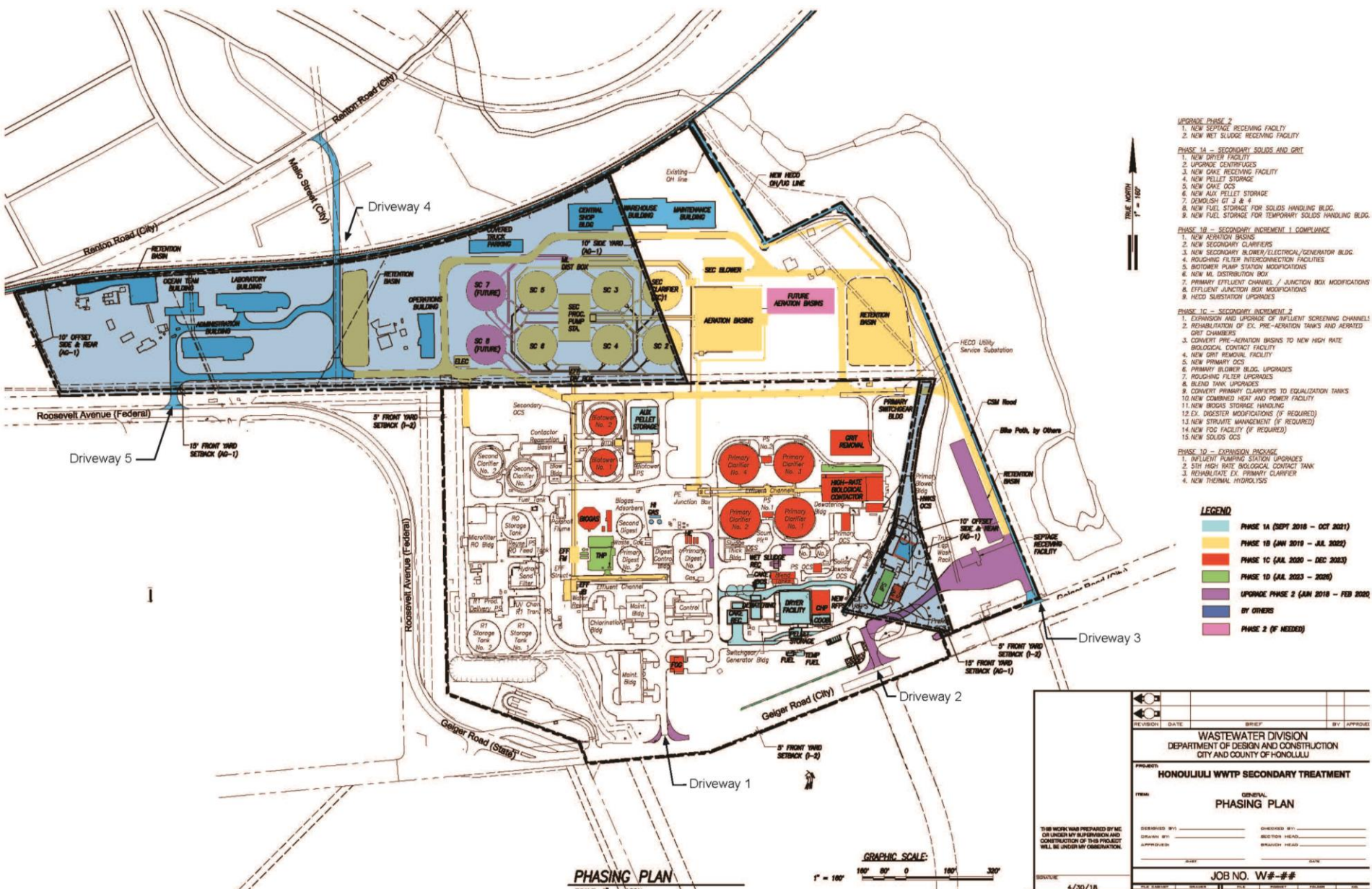
Complete construction of facilities necessary to comply with secondary treatment standards for wastewater discharges.

Phase 1B – General Site Plan



REVISION	DATE	BRIEF	BY	APPROVED
WASTEWATER DIVISION DEPARTMENT OF DESIGN & CONSTRUCTION CITY AND COUNTY OF HONOLULU				
HONOLULU WWTTP SECONDARY TREATMENT PHASE 1B HONOLULU, EWA, OAHU, HAWAII				
GENERAL SITE PLAN - PHASE 1B				
DESIGNED BY	DRYDEN	CHECKED BY	DRYDEN	
DRAWN BY	DRYDEN	SECTION HEAD	DRYDEN	
APPROVED		SECTION HEAD		
JOB NO. WX-XX				
PLA. PROJECT	DESIGN	CONSTR.	OPER.	MAINT.

Phase 2 – General Site Plan



Short-term and Long-term Entitlement Strategy

Short-term Entitlement Process:

- **Special Use Permit (SUP) Application**

For construction and operation of WWTP facilities on 25.1 acres of parcel 003 and 2.702 acres of parcel 004.

- **Conditional Use Permit (CUP-Minor)/Joint Development Agreement (JDA) Application**

To combine the parcels that comprise the existing WWTP (004 & 007) and planned expansion area (003) into a single zoning lot for development process.

- **Zoning Waiver Application**

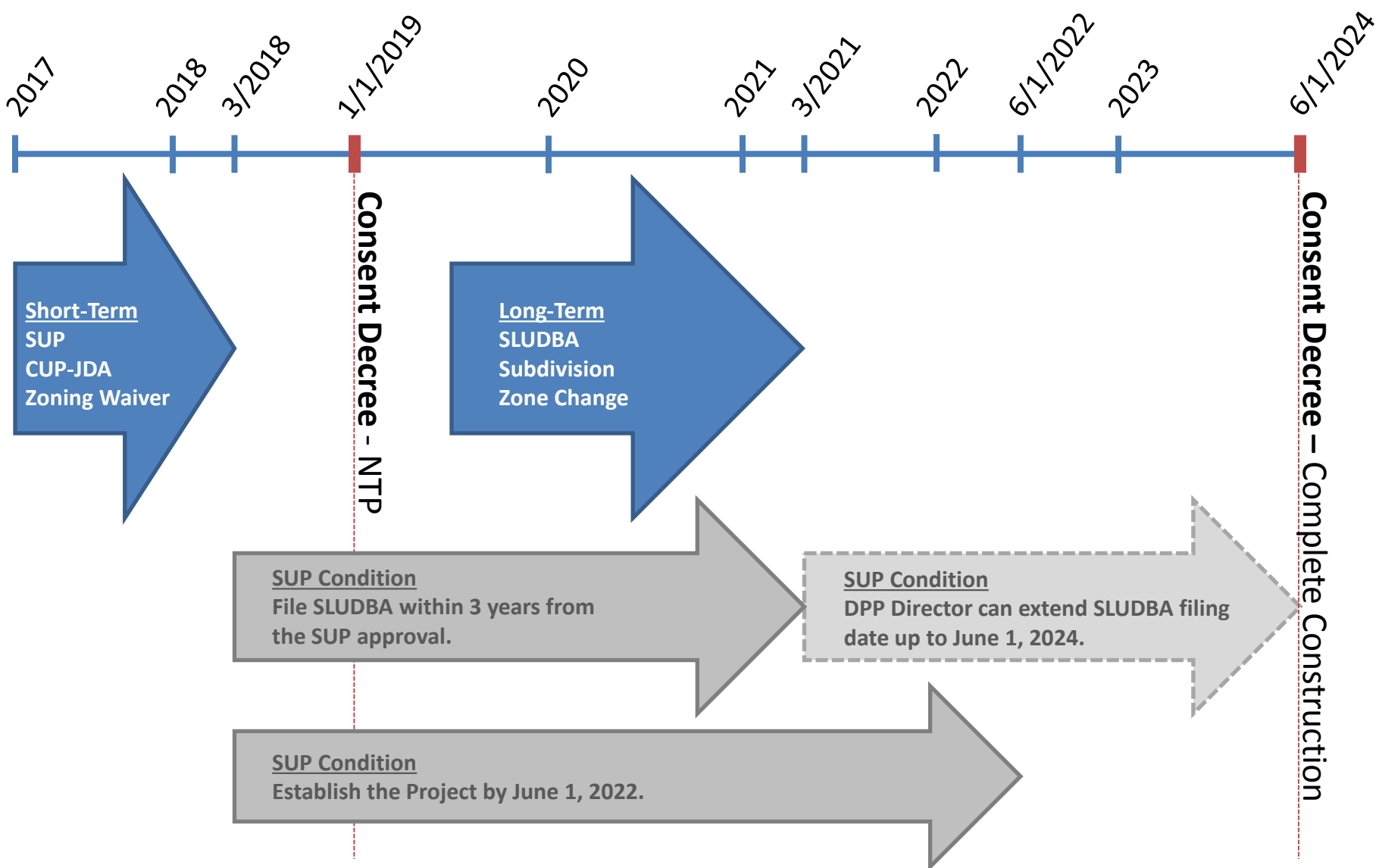
To ensure compliance with the CCH LUO, ROH 25.

Short-term and Long-term Entitlement Strategy

Long-term Entitlement Process:

- **State Land Use District Boundary Amendment (SLUDBA) Petition**
To change the 25.1-acre expansion area on parcel 003 and the 2.702-acre parcel 004 from SLU Agricultural to Urban. This would replace the SUP.
- **Zone Change Application**
To change parcel 003 expansion area and parcel 004 from AG-1 to I-2 zoning district. Modify the existing Unilateral Agreement (UA) that applies to the I-2 within parcel 003.
- **Subdivision Application**
To consolidate and re-subdivide the three parcels that contain the WWTP facilities to create a single lot and subdivide a segment of Geiger Road into its own road lot.

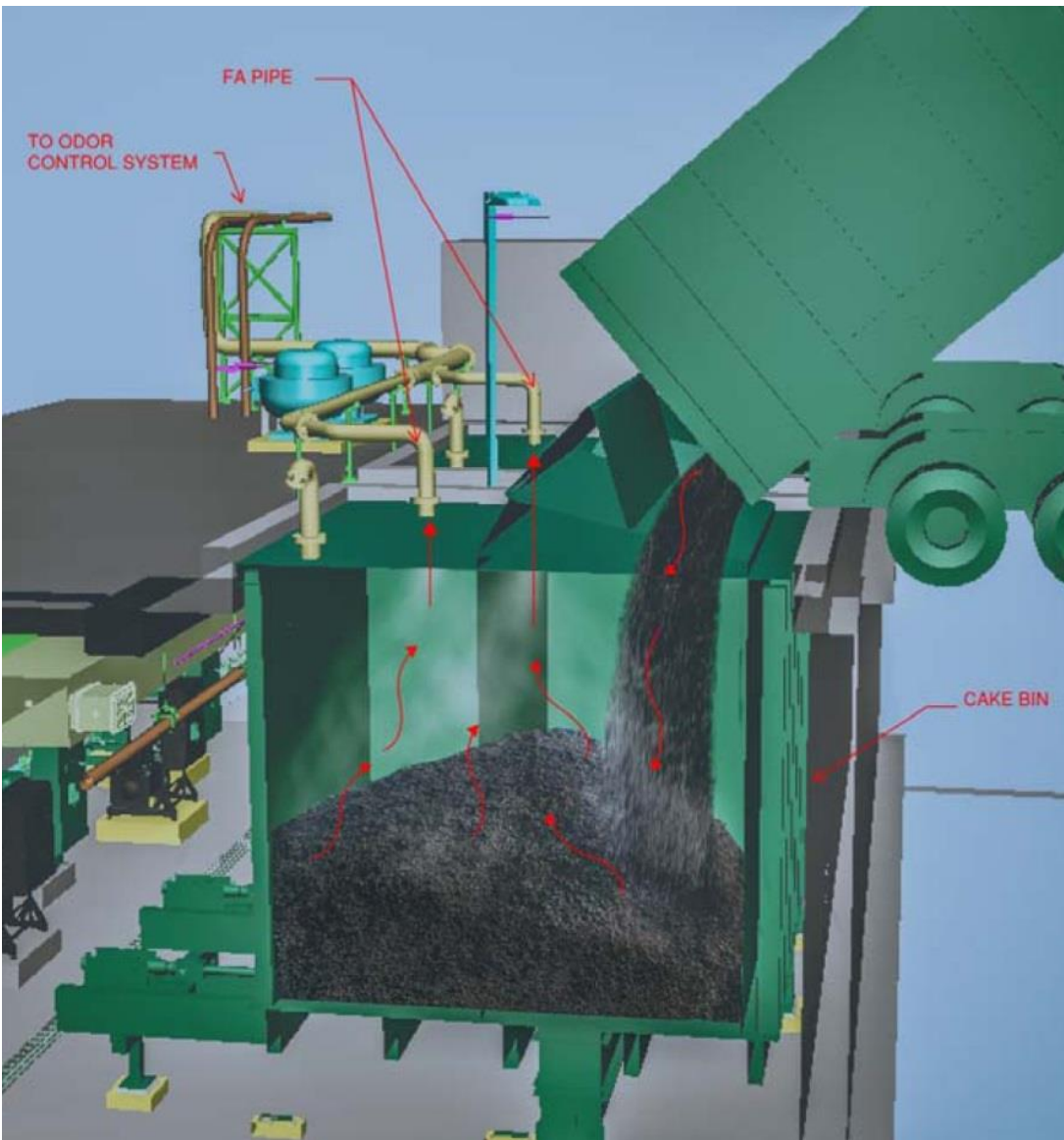
Short-term and Long-term Entitlement Timeline



Issues

1. Odor Control System (DPP)
2. Exterior Lighting (DPP)
3. Traffic Impact Assessment Report (TIAR), Construction Management Plan (CMP), and Traffic Management Plan (TMP) (TRB, DTS, DOT-HWY)
4. O'ahu Railway and Land Company (OR&L) Driveway Crossing (DOT-HWY)
5. Avigation and Wildlife Mitigation (DOT-AIR)
6. Land Use Commission (LUC) Docket No. AA88-627 (DPP)
7. Unilateral Agreement (UA), Ordinance No. 09-22 (DPP)

Odor Control System (DPP)



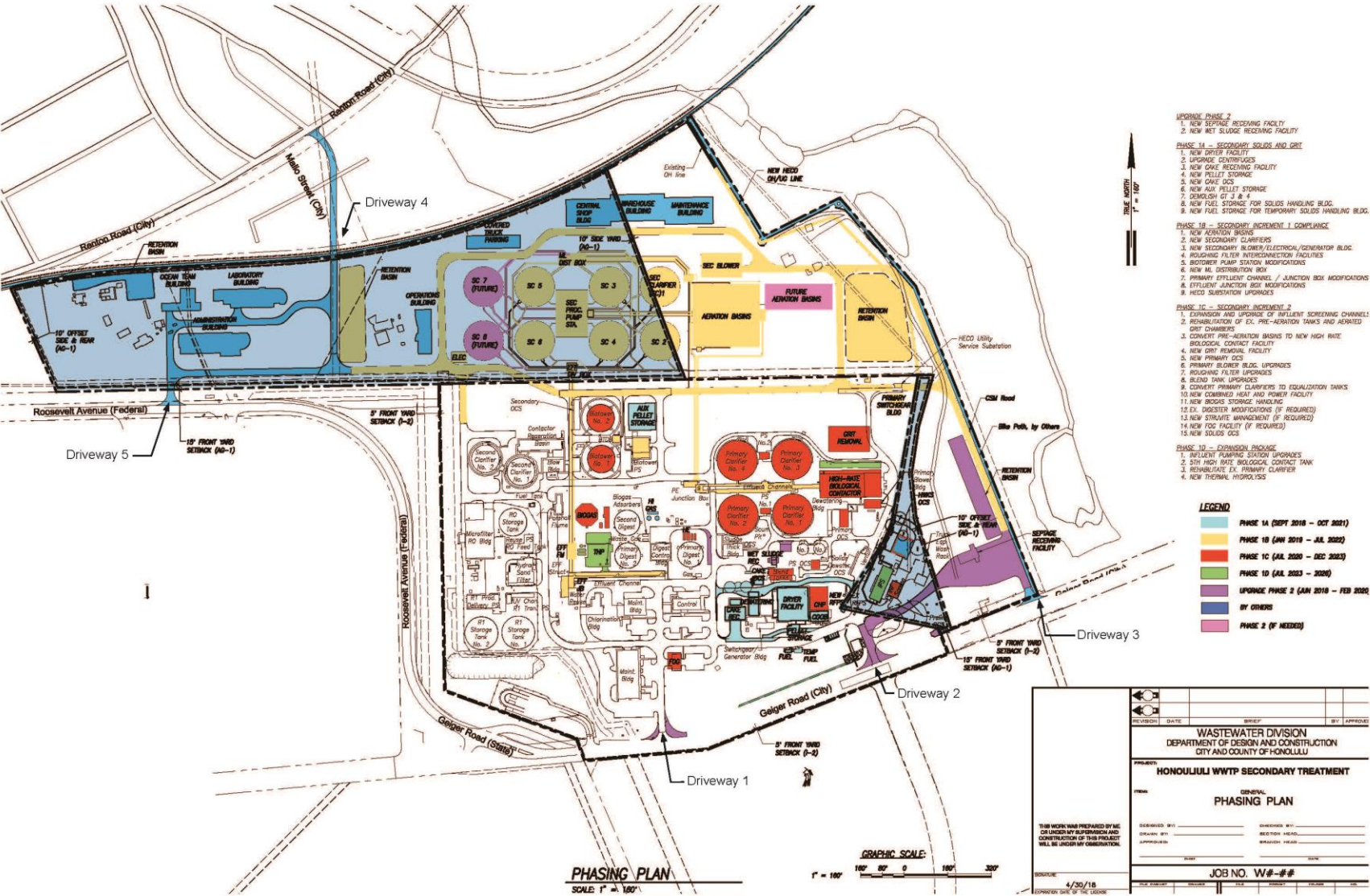
- Minimize generation of hydrogen sulfide (H_2S) and secondary odors.
- Monitor release of odors for mitigation.
- Odor containment facilities to use materials, lining or coating systems that are not susceptible to corrosion by odor compounds.
- Odor ventilation systems.
- Odor treatment with biologically-based systems to consume odor compounds.

Exterior Lighting (DPP)

- Exterior lighting consists of stanchion mounted, wall mounted, and pole mounted fixtures.
 - **Stanchion Mounted Fixtures** – Approximately 24 located on each clarifier tank. At night 4 will remain on for security and the rest will have a manual control scheme.
 - **Wall Mounted Fixtures** – Located on the exterior of buildings by access doors. They will be on from dusk to dawn.
 - **Pole Mounted Fixtures** – Located along roadways. From dusk to dawn, they will operate at 50% power and 100% power when activated by motion sensor.
- Exterior lights will be energy efficient and have a 4,000k light bulb color/temperature rating.
- Evaluating SCADA system to control existing and proposed exterior lighting.

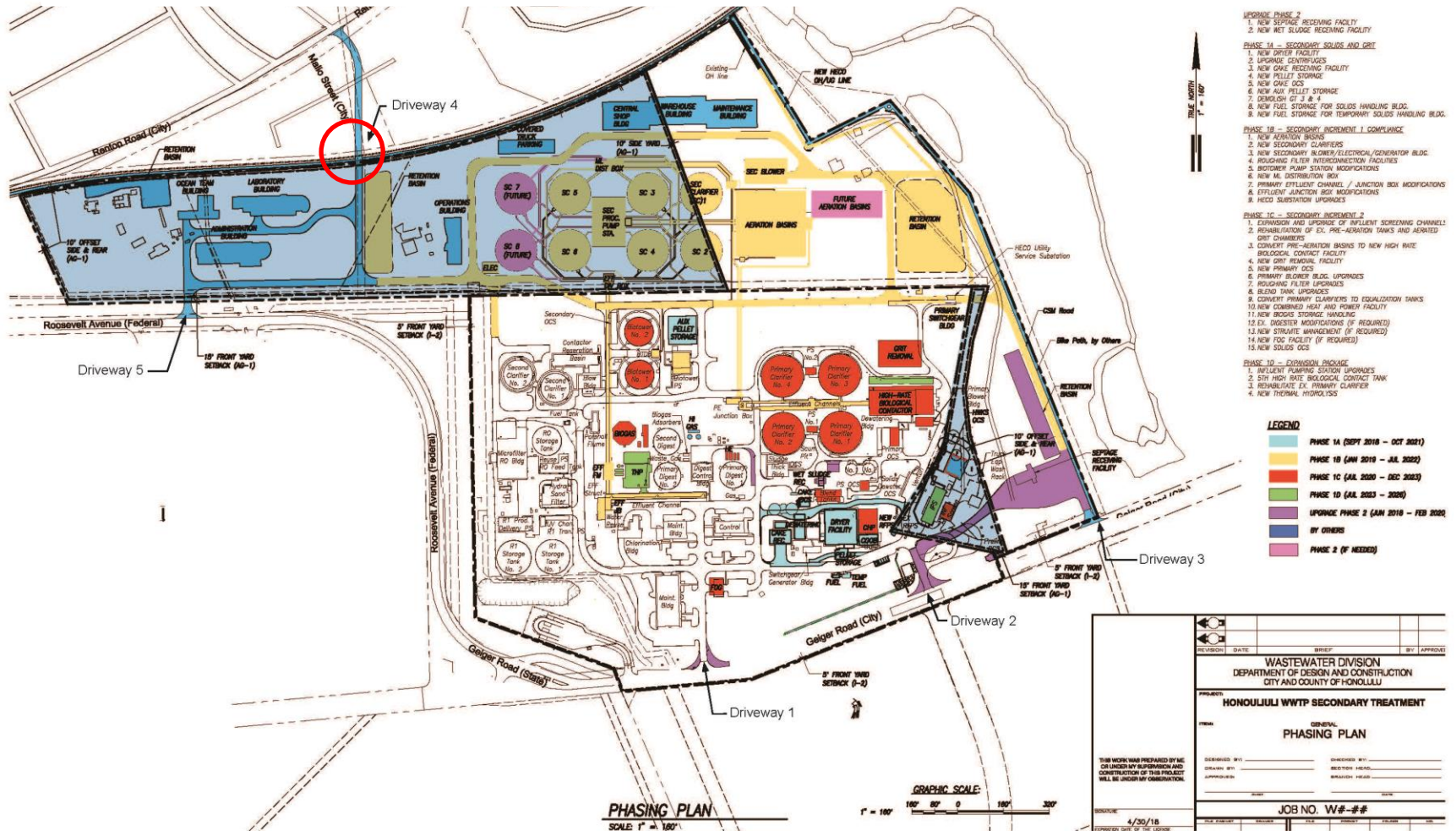
TIAR, CMP, and TMP (TRB, DTS, and DOT-HWY)

- Will be completed within 180 days of the LUC decision on the SUP.



OR&L Roadway Crossing (DOT-HWY)

- Will require federal NEPA environmental review and federal statutory approvals, including National Historic Preservation Act (NHPA) Section 106 consultation.

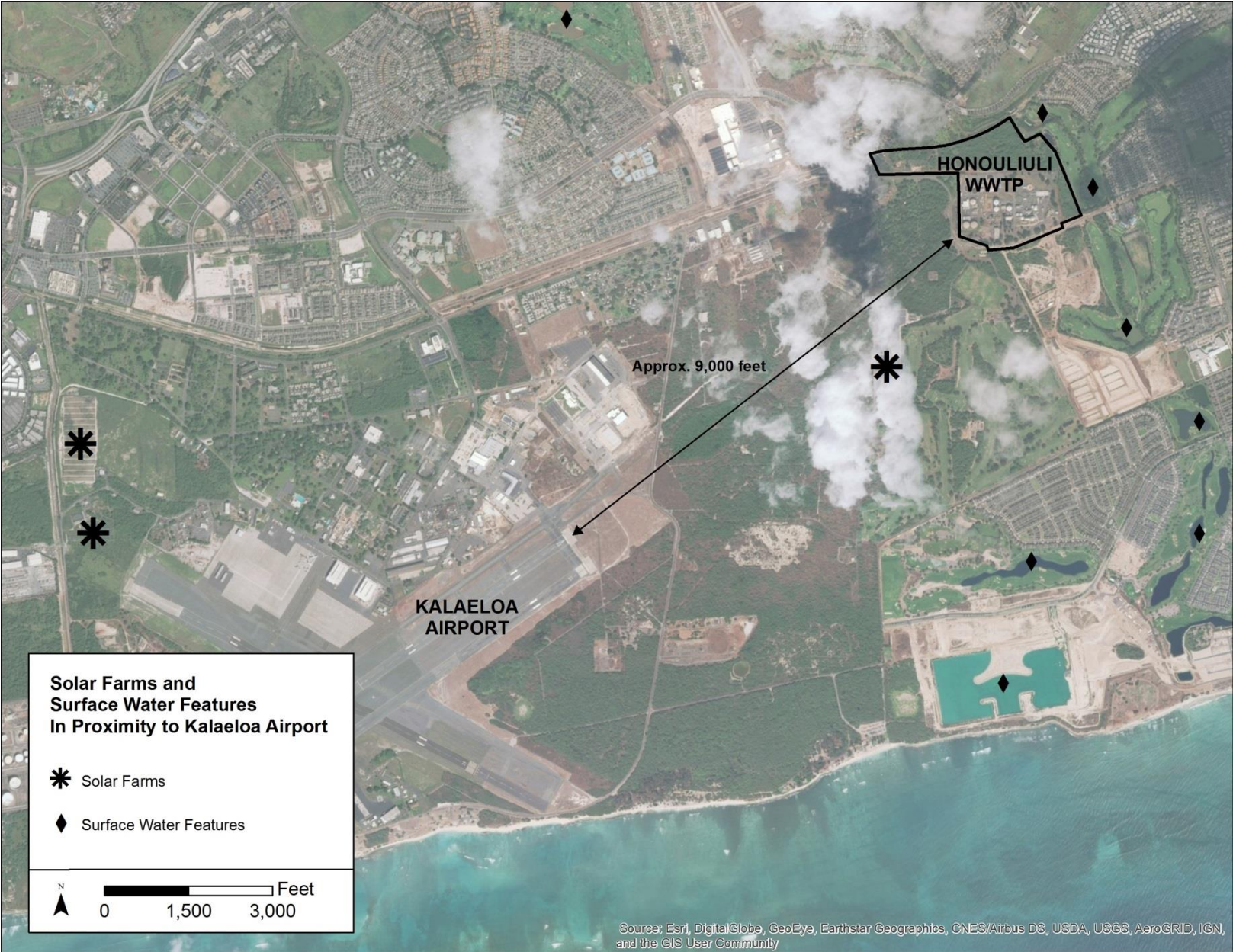


Avigation and Wildlife Mitigation (DOT-AIR)

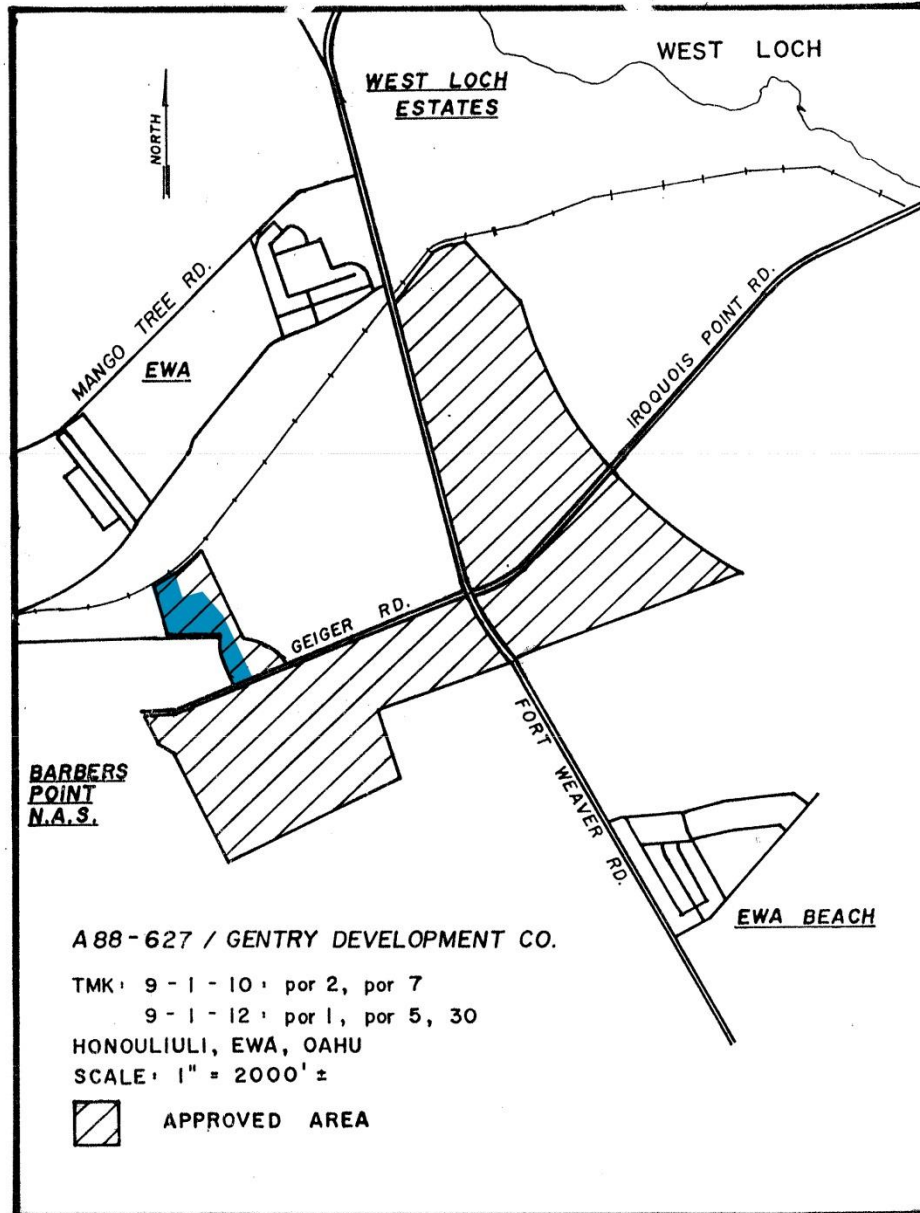
- DOT-AIR proposes executing an MOA to assess and address avigation and wildlife mitigation issues.
- Undertake mitigation measures if the WWTP facilities attract wildlife that could be a hazard to aircraft.
- Construction review by FAA for tall structures and solar panels.



Avigation and Wildlife Mitigation (DOT-AIR)

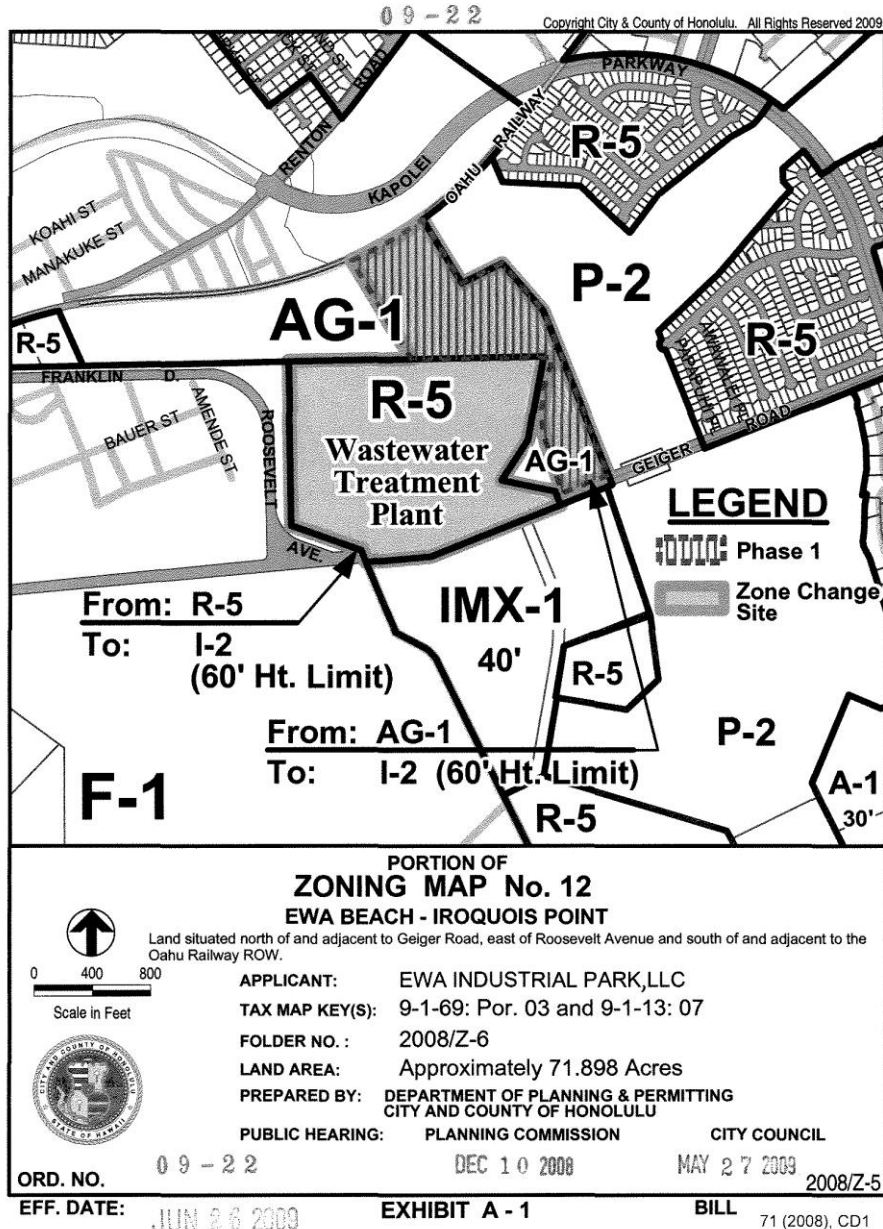


LUC Docket No. A88-627 (DPP)



- Will seek to bifurcate WWTP land from LUC Docket No. A88-627.
- Will provide a landscape buffer along the WWTP perimeter.

UA, Ordinance No. 09-22 (DPP)



- As part of the Zone Change application, will modify or replace the UA, Ordinance No. 09-22 that affects the I-2 area within parcel 003, to eliminate provisions that are not applicable to the WWTP use.
- Will address UA provision 3A related to:
 - Fire protection
 - BWS requirements