

LILIHA CIVIC CENTER & IWILEI INFRASTRUCTURE IMPROVEMENT MASTER PLAN PROJECT

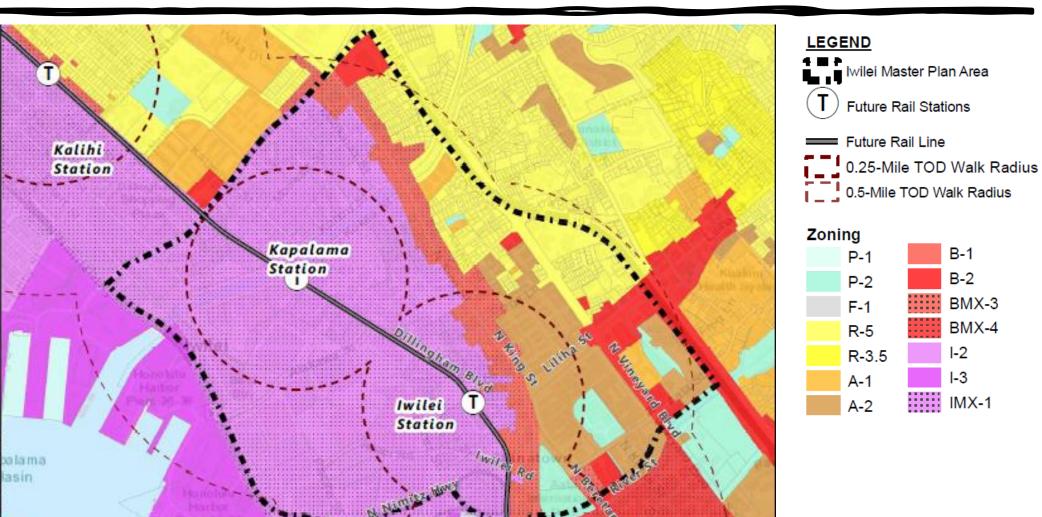


PROJECT OVERVIEW



Kalihi Station

EXISTING ZONING



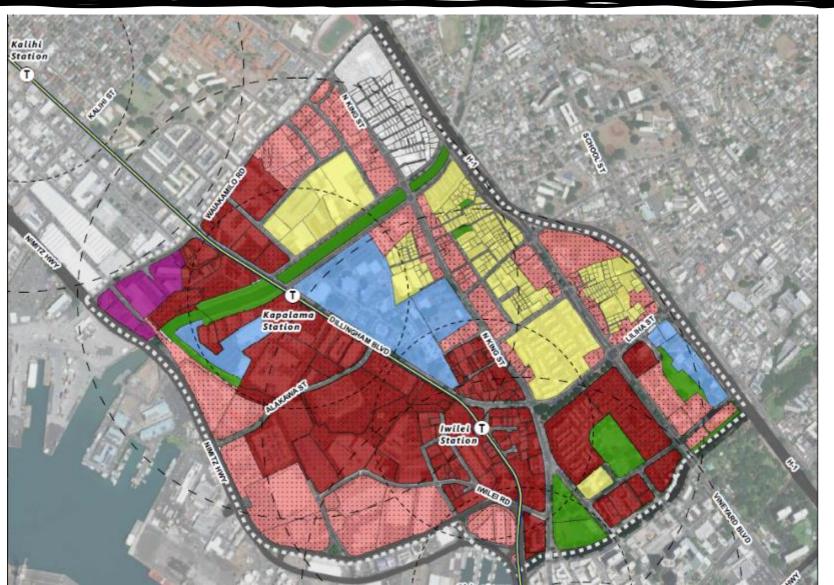
Chinatown Station







PROPOSED TOD LAND USES



Legend

- Iwilei Master Plan Area
- HART Transit Line
- T HART Transit Station
- ☐ 0.25-Mile and 0.5-Mile TOD Walk Radius

Proposed TOD Land Uses

- Residential
- Urban Mixed Use-Medium
- Urban Mixed Use-High
- School/Public Space
- Industrial Mixed Use
- Open Space
- Not Identified
- ROW/Remnant









PROJECT COMPONENTS

Three (3) main components:

- Liliha Civic Center Development Program and Master Plan
- 2. Iwilei Infrastructure Improvement Master Plan
- 3. Enivronmental Impact Statement (EIS) / Chapter 343
 Hawai'i Revised Statutes (HRS-343) Compliance
 Documentation





IWILEI INFRASTRUCTURE IMPROVEMENT MASTER PLAN – PURPOSE

- Identify infrastructure improvements that will advance landowner goals in the Master Plan Area;
- Support broader TOD goals for the State and City; and
- Facilitate the vision for redeveloping the Iwilei neighborhood into a more walkable community with affordable housing and access to services and employment centers.





LANDOWNER CONSULTATION

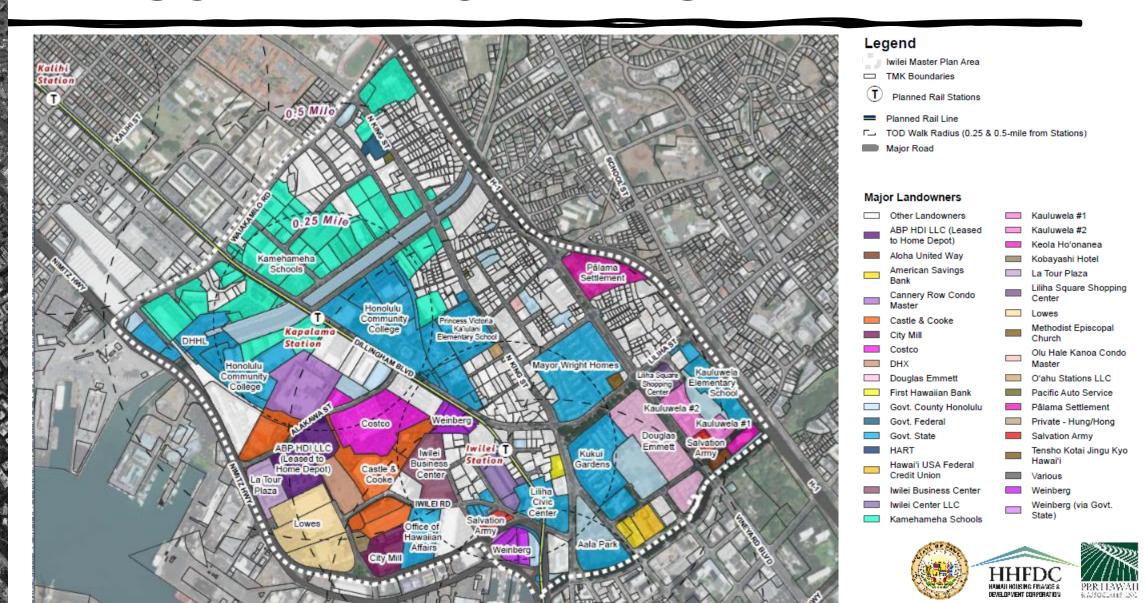
Reached out to major landowner in the area for updates on potential development over the next 30+ years.

- City and County of Honolulu (various owned properties)
- Department of Accounting and General Services (DAGS)
- Department of Hawaiian Homelands (DHHL)
- Hawai'i Housing Finance and Development Corporation (HHFDC)
- Hawai'i Public Housing Authority (HPHA)
- Honolulu Community College (HCC)
- Office of Hawaiian Affairs (OHA)

- Castle and Cooke
- Costco
- Kamehameha Schools
- Liliha Square Shopping Center
- Pālama Settlement
- The Salvation Army
- Weinberg/HRT
- Douglas Emmett Waena Apartments
- City Mill
- EAH Housing



MAJOR LANDOWNERS



ANTICIPATED DEVELOPMENT

SUMMARY OF ANTICIPATED DEVELOPMENT & PHASING

| | Land Use Type | Existing | New | | | | | Total |
|--|--------------------------------------|-----------|-------------------------|------------------------|------------------------|------------------------|--------------|-----------------------------------|
| | | | Phase 1 (Up to 2030) | Phase 2 (2031-2040) | Phase 3 (2041-2050) | Phase 4 (2051+/TBD) | Combined | Cumulative (new + existing) |
| | Residential (Units) | 4,200 | ±8,300 | ±9,700 | ±2,500 | ±6,900 | ±27,400 | 31,600 |
| | Commercial/ Institutional (SF) | 8,025,600 | (±34,600) | (±493,300) | (±150,500) | (±1,214,500) | (±1,892,900) | ±6,958,300 |
| | Industrial (SF) | 825,600 | | | | | | |



Anticipated number of units based on an average assumption of 1,000-1,500 SF per unit. Assumptions do not identify unit mix (bedrooms) or occupancy (number of actual residents).



CONSULTATION WITH DEPARTMENTS AND AGENCIES

- Consulted the following departments and agencies based on the development model/needs:
 - Department of Environmental Services (ENV)
 - Board of Water Supply (BWS),
 - Department of Transportation Services (DTS)
 - State of Hawai'i Department of Transportation (DOT)
 - Hawaiian Electric (HECO)
 - Hawaiian Telcom / Charter Communications / Spectrum



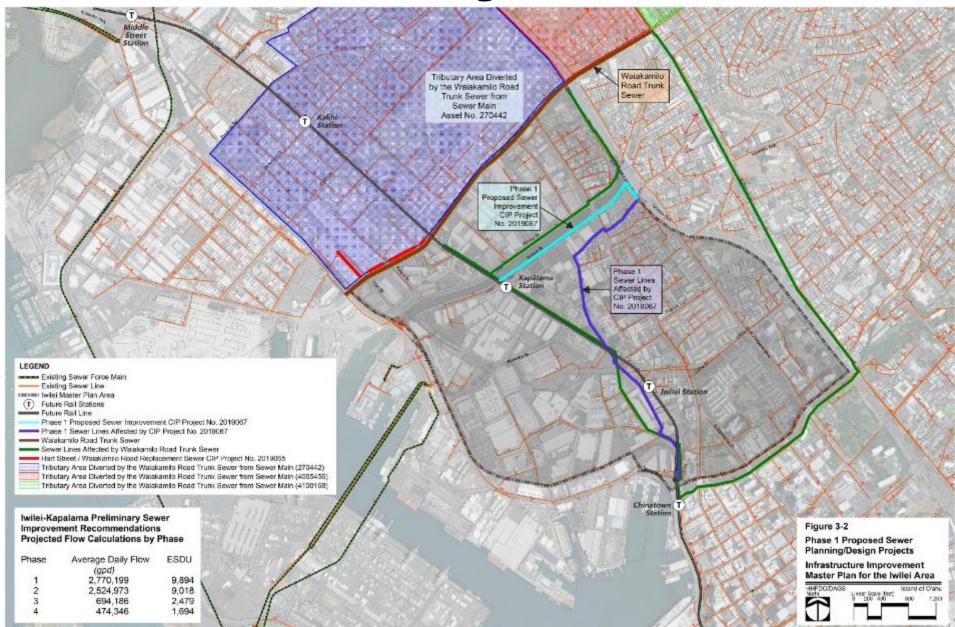
INFRASTRUCTURE IMPROVEMENTS



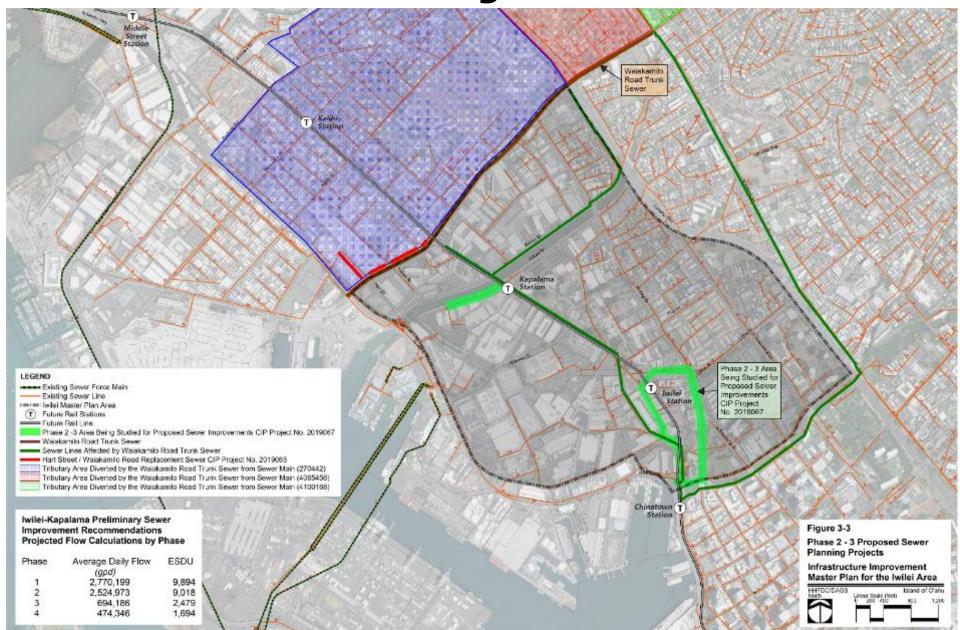
SEWER

- ENV is in the process of improving the area sewer capacity.
- Most of the projects currently being implemented by ENV focus on relieving the known sewer issues in the system.
- ENV has been working with developers in the area on a "case by case" basis.
- Since the completion of the Waiakamilo Road Trunk Sewer, the sewer system in the Iwilei has improved capacity to serve new TOD developments until the 'Awa Street WWPS is relieved and upgraded.
- Based on the anticipated TOD development, new and upsized sewer lines will be needed to implement Mayor Wright Homes, Liliha CC, and Kalanihuia Homes. ENV is studying the area under the Iwilei, King Street, Kōkea Street Area Sewer Improvements Project.

Proposed Sewer Projects: Phase 1



Proposed Sewer Projects: Phases 2 & 3



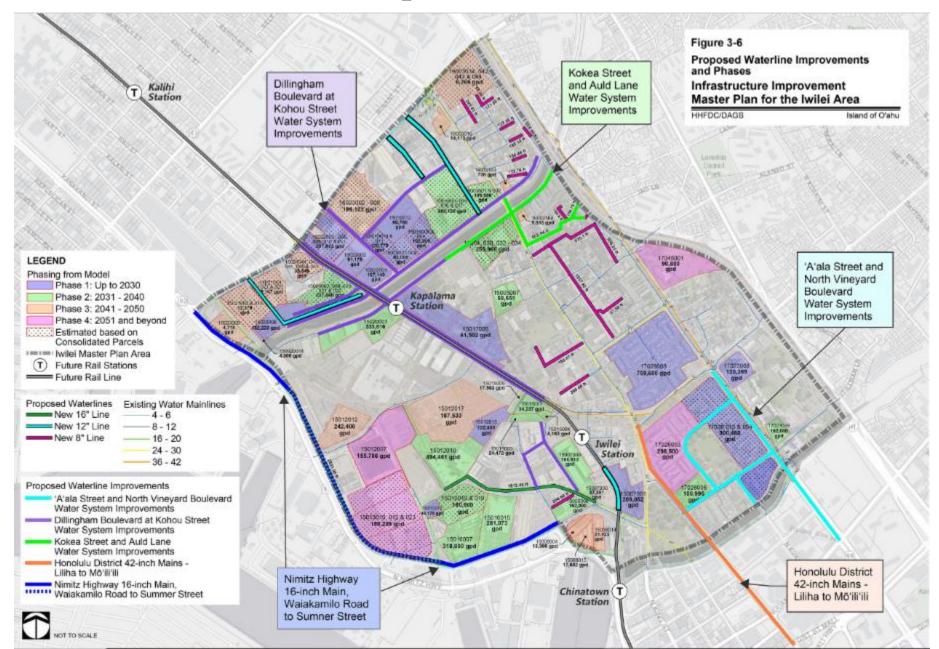


WATER

- The backbone water infrastructure is relatively strong
- Aging infrastructure is an ongoing challenge
- In the short-term, water availability is a concern for new development until the Red Hill water contamination issue is resolved
- Water system improvements are presently needed based on the existing water line sizes and the required fire flow for anticipated land uses
- The BWS has multiple projects in its CIP projects that will address current deficiencies and increase local and regional capacity



Proposed Water Line Improvements and Phases





DRAINAGE

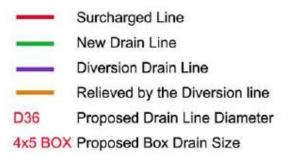
- The drainage system does not meet the City Drainage Standards and will need to be upgraded
- The City has requested additional flood studies from the Federal Emergency Management Agency (FEMA)
- The existing backbone drainage systems consist of drain lines owned by the City, State, and private entities and have various deficiencies and constraints due to low-lying terrain and highwater table
- Each individual development must submit a drainage report to demonstrate that the development causes no impact on adjacent properties due to runoff

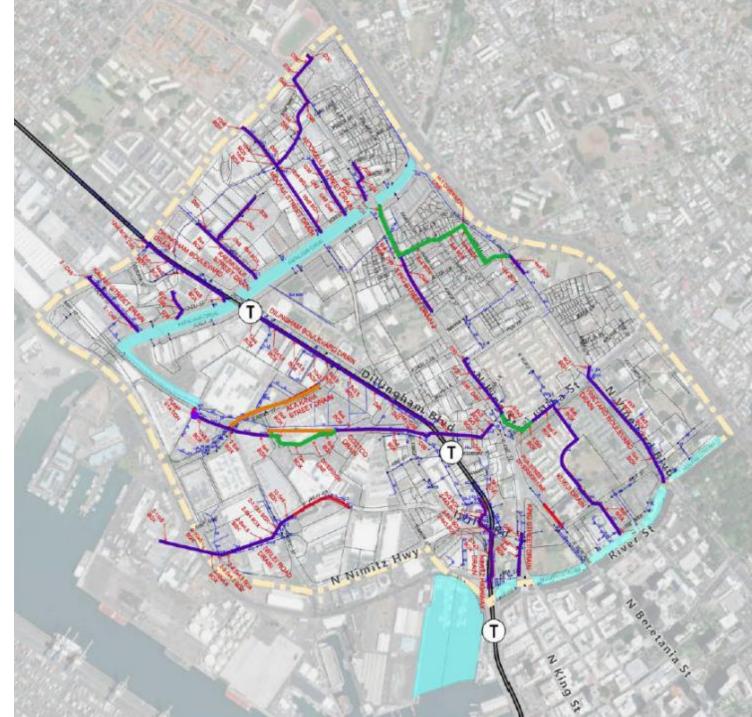
Proposed Drainage Improvements

LEGEND



Future Rail Line







TRANSPORTATION - ROADWAYS AND MULTIMODAL

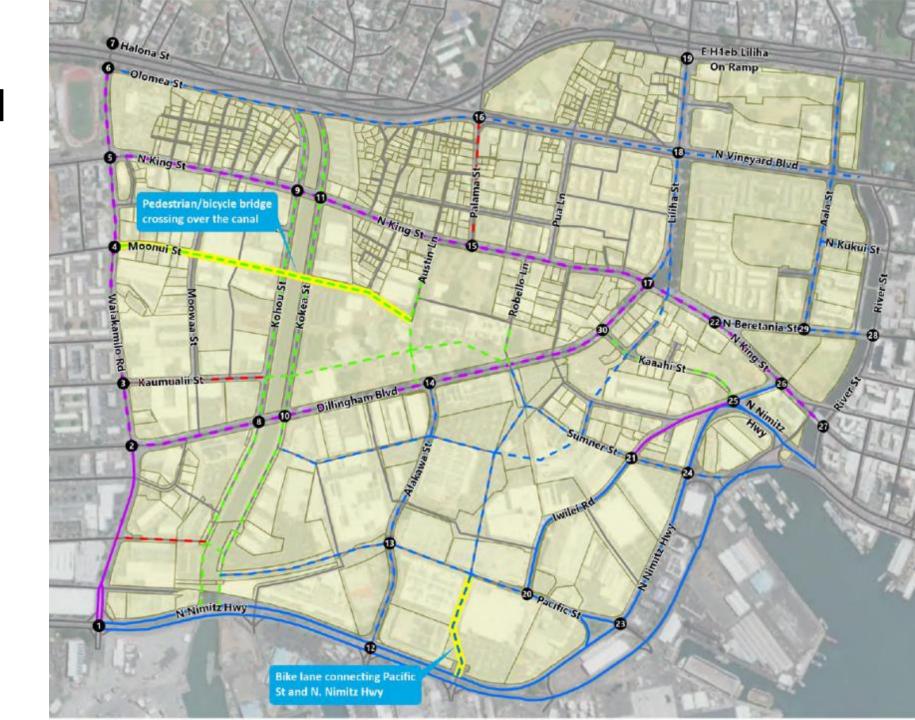
- The Iwilei Master Plan Area lacks a safe connected network, particularly for bicycling and walking
- Most roadways are built to capacity and major improvements such as widening roadway segments are not considered feasible
- In general, peak hour traffic operations will degrade due to the existing urban nature of the area, and the study area will essentially become an extension of the Downtown Honolulu core
- With the major expansion of housing and the anticipated new rail stations one of the primary transportation objectives of this infrastructure master plan was to recommend improvements that improve pedestrian and bicyclist safety, improve mobility, and encourage the use of non-automobile modes





Recommended Pedestrian and Bike Network Improvements

- Existing Bike Lane
- Existing Buffered Bike Lane
- Future Shared Use Path
- Future Bike Lane
- Future Shared Roadway
- Future Protected Bike Lane
- == Recommended Bike Lane
- Recommended Shared Use Path
- Study Intersections
- Iwilei_Infrastructure_Master_Plan



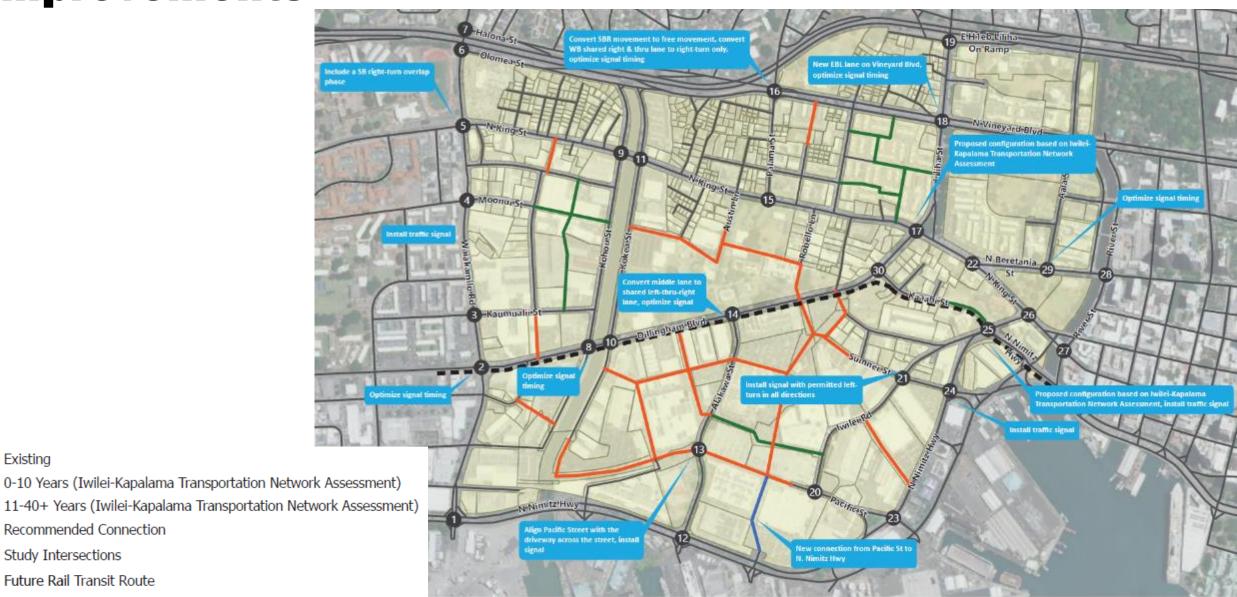
Recommended Roadway and Circulation Network **Improvements**

Existing

Recommended Connection

Future Rail Transit Route

Study Intersections



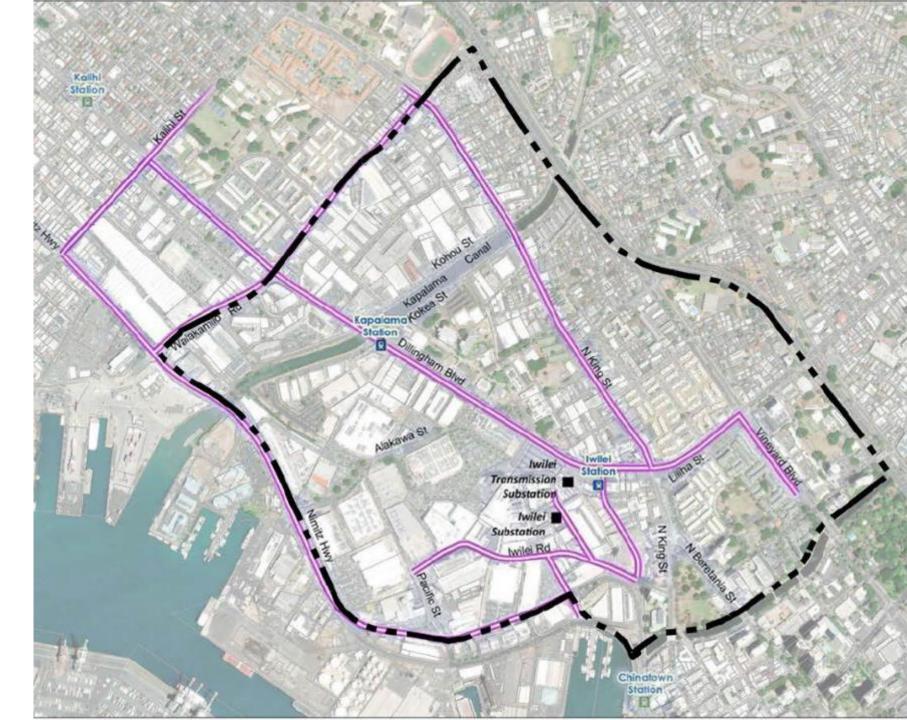


ELECTRICAL

- The existing electrical system has sufficient capacity for present day needs and can support limited growth
- HECO plans to serve large redevelopment projects.
- Electrical improvements identified by this analysis include:
 - Increasing the capacity of the existing 12-kV distribution lines (reconductor or "up conductor"), where applicable;
 - Extending 25-kV distribution infrastructure and circuits throughout the Iwilei Master Plan Area;
 - Providing an additional 46-kV transmission line; and
 - Providing additional transmission station and distribution substation capacity.
- Discussions should continue between major landowners to extend 25kV circuits from their lwilei transmission substation to support the larger redevelopment projects.

Proposed Underground Electrical Improvements





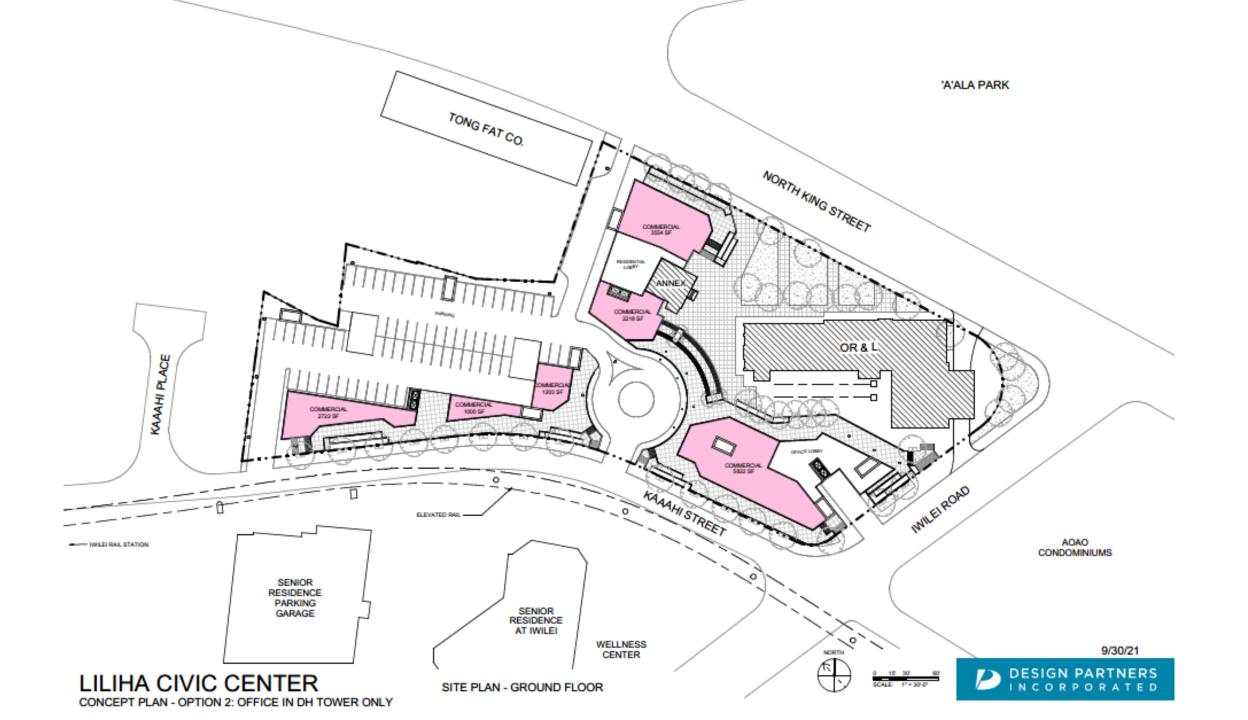


INFRASTRUCTURE PROJECTS AND COSTS

| System | Subcategory | Costs | | | |
|---------------------|--|--|--|--|--|
| Sewer | WWPS | \$14,704,000 | | | |
| | Force main | \$5,754,000 | | | |
| | Sewer Lines | \$211,202,170 | | | |
| Water | Regional Capacity | TBD pending Red Hill and Regional considerations | | | |
| | Water Lines | \$382,451,000 | | | |
| Drainage | Drains/Drain Lines | \$147,449,044 | | | |
| | Canal/Stream Improvements | \$75,300,000 | | | |
| Storm Water Quality | The location and method of the post-construction treatment control BMPs will be determined during the design phase of each individual redevelopment project in the Iwilei Master Plan Area | | | | |
| Transportation | Pedestrian Facilities | \$14,061,345 | | | |
| | Bike Facilities | \$20,904,566 | | | |
| | New Roadways | \$135,831,707 | | | |
| Electrical | 25-kV | \$65,670,000 - \$72,600,000 | | | |
| | 46-kV | \$158,600,000 - \$165,530,000 | | | |
| | Transmission Stations / Substations | TBD pending location and agreements | | | |
| | Total | \$1,231,927,832 - \$1,245,787,832 | | | |

LILIHA CIVIC CENTER





SUMMARY

RESIDENTIAL

EWATOWER: 26 RESIDENTIAL FLOORS GROUND FLOOR: COMMERCIAL

LEVEL 2 (BRIDGE) = 10.527 SF LEVEL 3 TO 26 = 211.500 SF (12.460 SF x 25 FLRS) SUB TOTAL = 322,027 SF

RESIDENTIAL OVER PARKING GARAGE: SFLOORS ABOVE PARKING = 67,910 SF (13,582 SF x 5 FLRS)

= 389,937 SF

UNIT COUNT

EWATOWER

LEVEL 2 (BRIDGE) = 9 UNITS LEVEL 3 TO 14 = 144 UNITS (12 UNITS x 12 FLRS) LEVEL 15 TO 26 = 102 UNITS (14 UNITS x 13 FLRS)
SUB TOTAL = 335 UNITS

OVER PARKING GARAGE

ABOVE PARKING = 65 UNITS (13 UNITS x 5 FLRS)

TOTAL = 400 UNITS

OFFICE

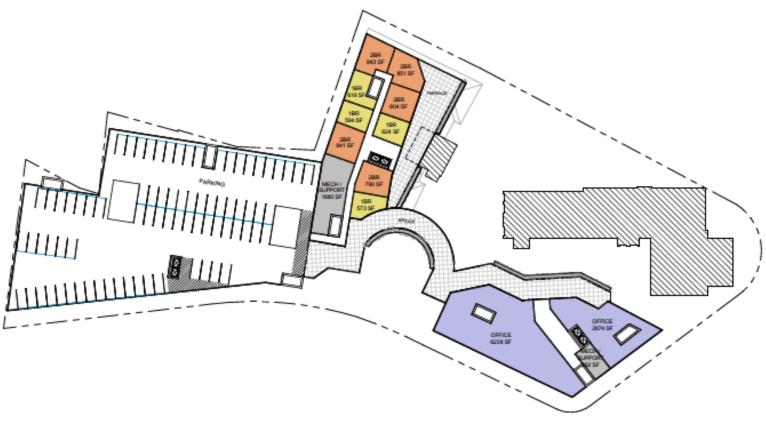
9,112 SF (11,161 GSF) / FLR
 218,688 SF (8,112 x 25 FLRS)

COMMERCIAL

EWATOWER = 5,772 SF DH TOWER = 5,822 SF PARKING LINER = 4,925 SE TOTAL = 16,519 SE

PARKING

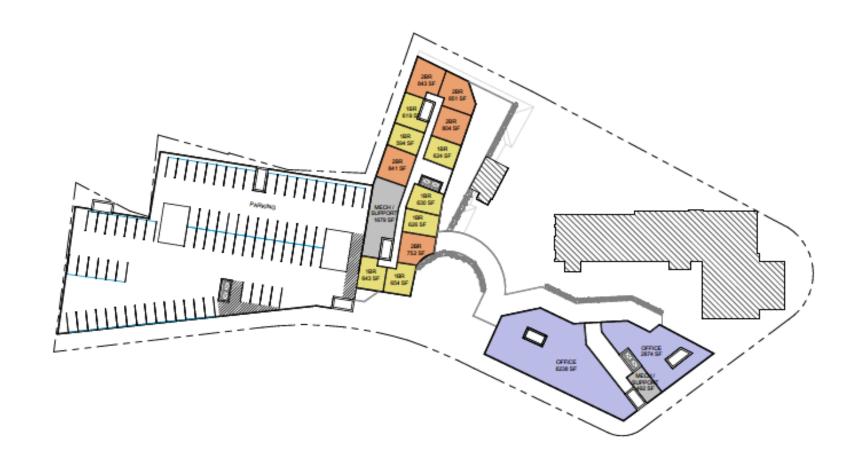
GROUND LEVEL = APPROX. 80 STALLS LEVEL 2 TO 12 = 960 (80 x 12 FLRS) TOTAL = 1,040 STALLS







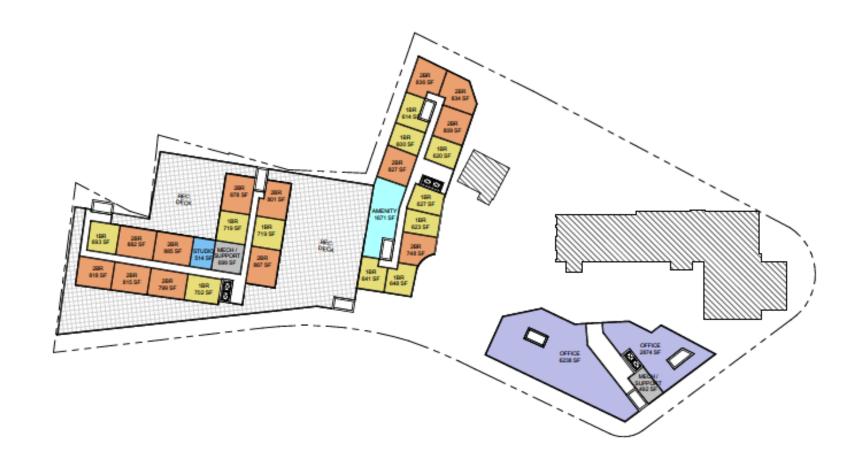






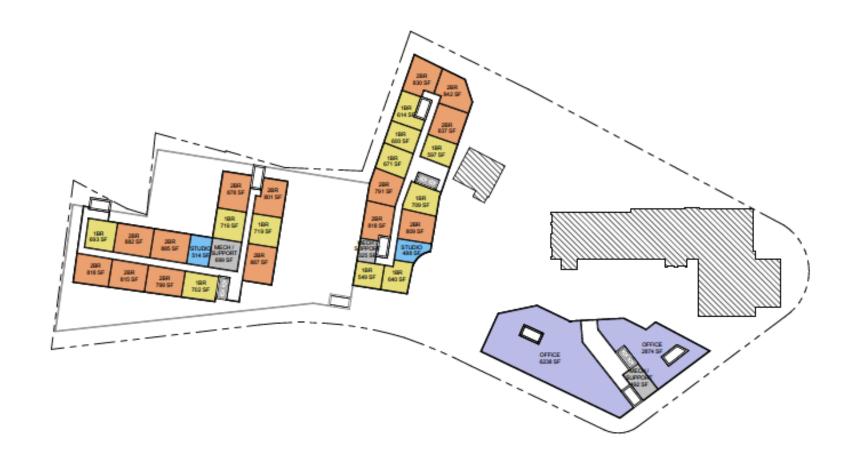










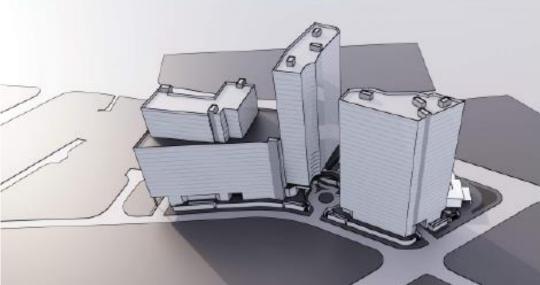


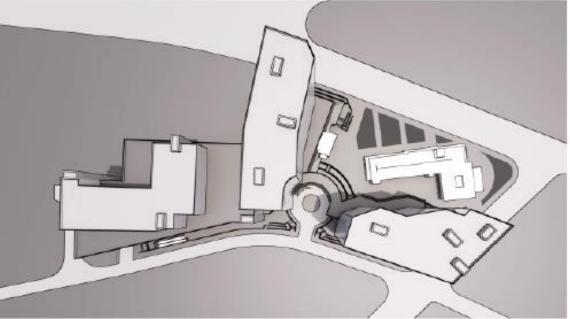












9/30/21





MAHALO!

