

**NEW ANIMAL QUARANTINE STATION
HALAWA, OAHU, HAWAII**

UTILITY INVESTIGATIONS

Civil Utility Investigation for the Animal Quarantine Station Relocation

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Department of Public Safety
Department of Accounting and General Services
DAGS Job No. 12-27-5713

FINAL REPORT
July 2022

New Animal Quarantine Station Utility Investigations

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Charter Spectrum Correspondence

FIGURE E1

Animal Quarantine Station Conceptual Electrical Utility Site Plan

CIVIL UTILITY INVESTIGATION

prepared for

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CIVIL UTILITY INVESTIGATION
FOR THE
ANIMAL QUARANTINE STATION RELOCATION

Halawa, Oahu, Hawaii
Tax Key Map: [1] 9-9-010:006, 046, 054, 057, and 058

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April 2022

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I. OVERVIEW

The State of Hawaii Department of Public Safety (PSD) is responsible to provide a safe, secure, and humane environment for the care and custody of adult male and female offenders originating from the Island of Oahu. The current Oahu Community Correctional Center (OCCC) which is located in Kalihi is out of date, inefficient and no longer meets the needs of PSD. On behalf of PSD, the State of Hawaii Department of Accounting and General Services (DAGS) is proposing to develop a replacement facility for the existing OCCC facility. As a result of the 2018 Environmental Impact Statement for selection of the future site for OCCC, the Animal Quarantine Station (AQS) in Halawa was selected as the preferred site for the replacement of the existing OCCC.

The relocation of the existing Animal Quarantine Station (AQS) is a critical component to the success of the new Oahu Community Correctional Center (OCCC). Utility providers were previously contacted during the 2018 EIS phase to determine the availability of water supply, wastewater collection/treatment, and other utility services at the AQS property to meet projected OCCC needs. However, at the time in the absence of defined plan, accurate utility demands associated with new AQS development could not be projected.

With the completion of the Project Development Report for the Department of Agriculture Halawa Animal Industry Facility Consolidation of Facilities dated December 2020 by Fung Associates, DAGS would like to determine the future AQS utility demands with the addition of OCCC projections. The combined OCCC/AQS utility projections are prepared here-in and evaluated. This utility investigation was conducted to review the site utility systems, identify possible constraints, and describe proposed improvements to the storm drainage, water supply and sanitary sewer systems based on the combined requirements of the new OCCC and new AQS.

II. LOCATION

The Animal Quarantine Station (AQS) is located at 99-951 Halawa Valley Street in Halawa on 38.21-acres across TMK's 9-9-010: 006, 046, 054, 057 and 058, and portions of the HDOT Halawa Interchange properties (See Figures A and B). The AQS site is bounded

by Halawa Valley Street to the north, the Interstate H-3 Freeway to the west, and industrial uses to the south and east. The AQS is staffed by 35 employees and contains approximately 1,600 kennels, many of which are no longer used.

TMK	Area (acres)	Zoned Land Use	Description
9-9-010: 006 (por.)	3.47	I-2 Intensive Industrial R-5 Residential	Navy owned parcel; only small portion falls within AQS site.
9-9-010: 046 (por.)	1.00	I-2 Intensive Industrial R-5 Residential	Existing HDOA land; only small portion falls within AQS site.
9-9-010: 054	9.66	I-2 Intensive Industrial	Existing HDOA land
9-9-010: 057	5.50	I-2 Intensive Industrial	Existing HDOA land
9-9-010: 058	9.78	I-2 Intensive Industrial	Existing HDOA land
Portion of Halawa Interchange (No TMK)	3.10	R-5 Residential	DOT land falling within site boundary; no defined parcel.
Portion of Halawa Interchange (No TMK)	5.70	I-2 Intensive Industrial	DOT land falling within site boundary underneath H3 overpass; no defined parcel.

The existing AQS facilities, occupying nearly 50 percent of the Halawa property on the east side of H-3, will be the future site of the OCCC replacement facility to house approximately 1,380 inmates and support staff of 650 employees. A new quarantine complex is planned to relocate to parcel TMK 9-9-010:054, a 9.66-acre area to the west of H-3 Highway. The new facility is planned to accommodate approximately 143 kennels and a support staff of 35 employees. A conceptual site plan was developed as part of the December 2020 Project Development Report by Fung Associates and will serve as the basis for this utility analysis. The utility requirements associated with the proposed AQS

site layout will be discussed in detail in the subsequent sections of this study. See Figure C for Conceptual Site Layout Plan.

III. UTILITY INVESTIGATION

This Utility Investigation presents a detailed evaluation of project site related to the civil utility systems for the Animal Quarantine Station relocation. Proposed site plans and building layouts are based on the AQS Project Development Report dated December 2020 by Fung Associates. The objective of this study is to review the existing site utility improvements, determine the project requirements, and based on the project requirements, determine required improvements and identify possible opportunities and constraints for the following:

- Storm drainage system,
- Water supply system, and
- Wastewater collection system.

The assessment of the site characteristics and utilities for each project site is based on available data obtained from the City's Honolulu Land Information System (HoLIS) database, record information, as-built plans, a topographic survey, and a combination of aerial and street level photography obtained from the Google Earth database. Further, letters were sent to appropriate City agencies and other service agencies with the project requirements for the project site to determine capacities and the agency's ability to serve the combined AQS and OCCC projected demands.

The proposed utility improvements are conceptual, based on the site plans and building layouts developed and subject to change based on further development of plans and availability of additional information.

Storm Drainage System

Existing Conditions

Existing on-site storm drainage systems consist of a network of grated drain inlets, manholes, and catch basins connected by underground drainlines ranging in size from 18- to 30-inches. Runoff from rainfall within the existing project site is collected by two major on-site drainage systems and two off-site City systems described below, all of which discharge into North Halawa Stream (See Figure D).

The first major on-site drainage system consists of a series of drain inlets, manholes, catch basins, and drainlines that vary in sizes from 18- to 30-inches. This drainage system generally collects runoff from the Wastewater Treatment Plant Building, Necropsy Building, and a portion of the property to the east of the project site. This on-site drainage system eventually connects to the City system, which consists of a 30-inch drainline, and discharges to North Halawa Stream.

The second major onsite drainage system consists of a series of drain inlets, manholes, and drainlines that vary in sizes from 18- to 30-inches. This drainage system generally collects runoff from the Animal Industry Division Building, Parking Lot, and the Department of Health Facilities Buildings. This on-site drainage system eventually connects to the City system, which consists of a 30-inch drainline, and discharges to North Halawa Stream.

The first major off-site drainage system consists of a series of drain inlets, manholes, catch basins, and drainlines that vary in sizes from 12- to 18-inches. The runoff from the Large Animal Holding Driveway sheetflows off-site to a catch basin located along Halawa Valley Street. This drainage system also collects runoff from the DOH Facilities Buildings. This off-site drainage system eventually discharges to North Halawa Stream via an 18-inch pipe.

The second major off-site drainage system consists of a series of manholes, catch basins, and drainlines that vary in sizes from 18- to 24-inches. The runoff from the Large Animal Holding Area sheetflows off-site to the catch basin of this system located along Halawa

Valley Street. This off-site drainage system eventually discharges to North Halawa Stream via a 24-inch pipe.

Storm Drainage Requirements

Drainage runoff rates and improvements for the proposed project shall be determined based on the CCH DPP, Storm Drainage Standards, dated August 2017. Any increase in runoff due to the proposed improvements will need to be retained on-site to ensure that the project will not have any adverse effects on downstream properties. The project site shall be graded to provide positive drainage for storm water runoff to flow towards onsite drain inlets throughout the site.

The proposed project and its land disturbing activities will impact the water quality unless appropriate Best Management Practices (BMP's) as required by the City are implemented. Improvements will be required to comply with the City's Rules Relating to Water Quality, amended September 2018. Under these rules, the City has categorized new development and redevelopment including any incremental development into Priority Projects. Priority A projects are defined as "All new development and redevelopment including any incremental development that proposes land disturbing activities of land of one (1) acre or more."

Priority A projects are required (unless determined to be infeasible) to:

- Incorporate appropriate Low Impact Development (LID) site design strategies to the "maximum extent practicable" (MEP).
 - Incorporate appropriate Source Control BMPs to the MEP.
 - Retain on-site by infiltration, evapotranspiration, or harvest/reuse as much of the water quality volume (WQV) as feasible with appropriate LID Retention Post-Construction Treatment Control BMPs.
 - Biofilter any portion of the WQV that is not retained on-site with appropriate LID Biofiltration Post-Construction Treatment Control BMPs.
- If it is determined to be infeasible to retain and/or biofilter the Water Quality Volume, the City rules require the project to:

- Treat (by detention, filtration, settling, or vortex separation) and discharge with appropriate Alternative Compliance Post-Construction Treatment Control BMPs, any portion of the WQV that is not retained on-site or biofiltered.
- Retain or biofilter at an offsite location, the volume of runoff from a non-tributary drainage area equivalent to the difference between the project's WQV and the amount retained on-site or biofiltered.

Appropriate BMP measures include but are not limited to: infiltration basins and trenches, subsurface infiltration systems, dry wells, bioretention basins, permeable pavement, green roofs, vegetated bio-filters, enhanced swales, detention basins, sand filters, vegetated swales, and buffer strips. Relocation of the existing AQS facilities will require compliance with the associated Storm Water Management Program Plans (SWMPP). The SWMPP for the AQS outlines procedures and directives for the property and dictates the post-construction storm water management of areas that are new or redeveloped which would discharge into the municipal separate storm sewer system (MS4).

Proposed Improvements

Proposed on-site storm drainage systems, one for the south-side of the site and the other for the north-side, will consist of a system of drain inlets, drain manholes, and underground piping (See Figure E). Storm water retention basins are proposed for both the south-side drainage system and the north-side drainage system to accommodate the increase in storm water runoff generated by the proposed improvements. The subsurface basins will be located mauka of the AQS/Operation Office and within the Pasture area. LID measures which promote on-site infiltration will be considered to reduce the storm water runoff quantity leaving the project site. Line sizes, drain structure locations, and LID measures will be finalized during the design phase of the project.

Water Supply System

Existing Conditions

Water for domestic use and fire protection is provided to the project vicinity through the BWS municipal water system. The BWS water system in the vicinity of the project site consists of a system of distribution lines and fire hydrants along Halawa Valley Street.

The BWS Halawa Booster No. 2 is located on adjacent parcel TMK 9-9-077:070 to the east of the property.

BWS record drawings and facility maps indicate a 12-inch water main within Halawa Valley Street which provides domestic and fire protection service to the site. BWS records also show a 6-inch water lateral and 6-inch meter (M/N# 99159428) connected to the 12-inch water main in Halawa Valley Street along the northern border of the site providing water to the existing AQS. The existing on-site water system after the 6-inch meter consists of a 6-inch water line loop with service connections to the existing kennels and office/lab facilities. On-site hydrants are connected to the 6-inch water line for fire protection (See Figure D). An 8-inch non-potable line also exists within Halawa Valley Street. No connections to the non-potable water line are currently provided to the project site.

Connection to the Board of Water Supply System

Potable water demands were derived from the project's program requirements and the domestic consumption guidelines and fire flow requirements are provided in the City and County of Honolulu Board of Water Supply Water System Standards dated 2002.

During the 2018 EIS phase, a letter was sent to the BWS requesting information on the availability of water for the project and water pressure information for fire hydrants in the vicinity of the site. The inquiry was based on the program information provided by PSD and the estimated average daily water demand based on 25 gallons per day for staff, 125 gallons per day for inmates, and 75 gallons per day for kennels are shown in the table below. See Appendix A for initial request letter dated June 2, 2017.

Proposed Program Information – 2018 EIS						
<u>Animal Quarantine Station</u>			<u>OCCC Relocation</u>			Total Daily Water Demand (gpd)
Staff	Kennels	Avg. Daily Water Demand (gpd)	Staff	Inmates	Avg. Daily Water Demand (gpd)	
35	200	15,875	50	1,380	188,750	204,625

On June 19, 2017, the BWS responded stating that based on current data, the existing water system is adequate to accommodate the proposed development (See Appendix A).

BWS record information indicates that the existing water supply system can provide a calculated fire flow capacity of 4,000 gallons per minute. See Water Availability Response Letter from BWS in Appendix A. The existing 6-inch lateral providing domestic and fire protection service to the site connects to the BWS system between Fire Hydrant #L03281 and L05923. Flow and pressure information for each hydrant is shown in the table below.

Existing Pressure & Flow Information				
<u>Hydrant #</u>	<u>Location</u>	<u>Static Pressure</u> (psi)	<u>Residual Pressure</u> (psi)	<u>Flow</u> (gpm)
L04140	Halawa Valley St.	99	42	4000
L05923	Halawa Valley St.	104	21	4000

On October 25, 2021, a follow-up letter was submitted to the BWS to confirm adequacy of the existing BWS storage and water distribution system to support the AQS relocation (See Appendix A). The inquiry was based on the updated AQS program information provided by DAGS and the OCCC program information provided by PSD during the 2018 EIS phase. The estimated average daily water demand based on 25 gallons per day for staff, 125 gallons per day for inmates, 5 gallons per day for visitors, and 75 gallons per day for kennels is shown in the table below. Reduction in the number of kennels proposed from 200 to 143 resulted in reduction of the estimated water demand.

Proposed Program Information – 2021 AQS Update							
<u>Animal Quarantine Station</u>				<u>OCCC Relocation</u>			Total Daily Water Demand (gpd)
Staff	Visitors	Kennels	Avg. Daily Water Demand (gpd)	Staff	Inmates	Avg. Daily Water Demand (gpd)	
35	131	143	12,255	650	1,380	188,750	201,005

On November 8, 2021, the BWS responded stating that based on current data, the existing water system is adequate to accommodate the proposed development (See Appendix A). The final decision on the availability of water, however, will be made when the building permit application is submitted for approval.

BWS also indicated that water conservation measures are required the proposed development. Conservation measures include utilization of non-potable water for irrigation using rain catchment, drought tolerant plants, xeriscape landscaping, efficient landscape irrigation systems such as drip system and moisture sensors, and the use of Water Sense labeled ultra-low flow water fixtures and toilets.

Proposed Improvements

On-site water system improvements required to support the proposed improvements will consist of new water meter(s) to provide domestic and fire protection water service, backflow preventers, valves, and underground piping. The conceptual water system improvements are shown in Figure F. Water connection(s) to the existing BWS system is anticipated to be from the existing 12-inch water main within Halawa Valley Street. This will be confirmed when construction plans for the proposed project are submitted to BWS for review and approval. New fire hydrants and fire access roads will be provided as required to ensure adequate fire protection for the proposed buildings.

Trenching and backfilling of proposed water lines will follow BWS System Standards and the Soils Engineers recommendations. During the design phase, the calculated water demands from the proposed project will determine appropriate meter and lateral size required.

The proposed improvement may have the opportunity to utilize the existing 6-inch water laterals currently servicing the project site. The locations and feasibility of using the existing laterals will be coordinated between the appropriate design consultants during the design phase of the project. If the existing lateral cannot be reused, new water laterals will need to be designed and constructed. Validation of the existing 6-inch meter size will also need to be conducted.

Sanitary Sewer System

Existing Conditions

Sewage generated from the AQS is collected via on-site sewer systems described below and conveyed to an on-site Wastewater Treatment Plant (WWTP) located on the south side of the site.

Record drawings obtained from the City indicate that a 15-inch City sewer main runs east-west through the project site along the paved access road and connects to the existing 15-inch sewer main within Halawa Valley Street. A 10-foot wide sewer easement in favor of the City and County of Honolulu has been established for maintenance purposes.

Sewage from the Necropsy building is collected by a 6-inch sewerline while sewage from the Animal Industry Division Building is collected by an 18-inch sewerline. All sewage generated from the Large Animal Holding Area is collected by a sewer system that consists of manholes and sewerlines that vary in sizes from 6- to 12-inches and conveys it to the on-site WWTP. The WWTP provides pre-treatment for the wastewater from the animal kennels prior to discharging to the City wastewater collection system in Halawa Valley Street via a 15-inch connection. The City's system collects and transports sewage flows generated from the project site to Halawa Pump Station on Salt Lake Boulevard and eventually to the CCH Honouliuli Wastewater Treatment Plant.

Connection to the City Sewer System

The Department of Planning and Permitting's (DPP) Wastewater Branch (WWB) reviews and approves sewer connection applications for developments which require sanitary sewer service. A preliminary sewer connection application based on the current program for both the AQS and OCCC development detailed below was approved on February 2, 2022 (See Appendix B). This approval indicates that the existing City wastewater system is adequate to support the proposed project.

Proposed Program Information				
Animal Quarantine Station			OCCC Relocation	
Staff	Visitors	Kennels	Staff	Inmates
35	131	143	650	1,380

Approved applications are valid for 2 years from the date of approval and construction plans are to be approved within that period. Another condition of the approval is that construction shall commence within 1-year after plan approval. SCA approval ensures that capacity is available for the project during this period. The application can be renewed by submitting a revised SCA. However, approval of the revision is not guaranteed.

Proposed Improvements

The proposed on-site sewer improvements will consist of new sewer manholes, cleanouts, and underground piping to provide lateral connections to the new buildings (See Figure G). Sewage flows from the improvements will be collected by new sewer lines running through the animal housing and connecting to the existing 21-inch line within the main access road. New sewer lines will also run within the proposed roadways on the north side of the site to collect waste from the AQS tenants, horse shed, and cattle shed. The new sewer system on the north side of the site will eventually connect to the new sewer line that runs through the animal housing. All sewage from the AQS kennels will eventually be treated by the on-site wastewater treatment plant. Based on the condition of the on-site treatment plant, it is likely that the plant would be replaced with a new pump station and/or pre-treatment facility.

New sewer lateral locations and sizes will be verified during the design phase. Trenching and backfilling of proposed sewer lines will follow CCH standards and the Soils Engineers recommendations.

Upon City approvals of the Sewer Connection Application(s) and construction plans and payment of the sewer facilities charges, the proposed system can be connected to the City sewer system.

VI. REFERENCES

1. "Storm Drainage Standards," Department of Planning and Permitting, City and County of Honolulu, August 2017.
2. "Rules Relating to Water Quality of the Administrative Rules, Title 20," Department of Planning and Permitting, City and County of Honolulu, September 17, 2018.
3. "Water System Standards," Board of Water Supply, City and County of Honolulu, State of Hawaii, 2002.
4. "Wastewater System Design Standards, Volume 1 Wastewater Collection Systems," Department of Environmental Services, City and County of Honolulu, July 2017.
5. "Project Development Report, Department of Agriculture Halawa Animal Industry Facility Consolidation of Facilities," Fung Associates Inc., December 2020.
6. "Final Environmental Impact Statement for Replacement of Oahu Community Correctional Center, Expansion of the Women's Community Correctional Center, and New Department of Agriculture Animal Quarantine Station," PBR Hawaii & Associates, Inc., June 26, 2018.

APPENDIX A

Figure A	Project Location and Vicinity Map
Figure B	Tax Map Key
Figure C	Conceptual Site Layout
Figure D	Existing Utility System
Figure E	Conceptual Storm Drainage System
Figure F	Conceptual Water Supply System
Figure G	Conceptual Sanitary Sewer System

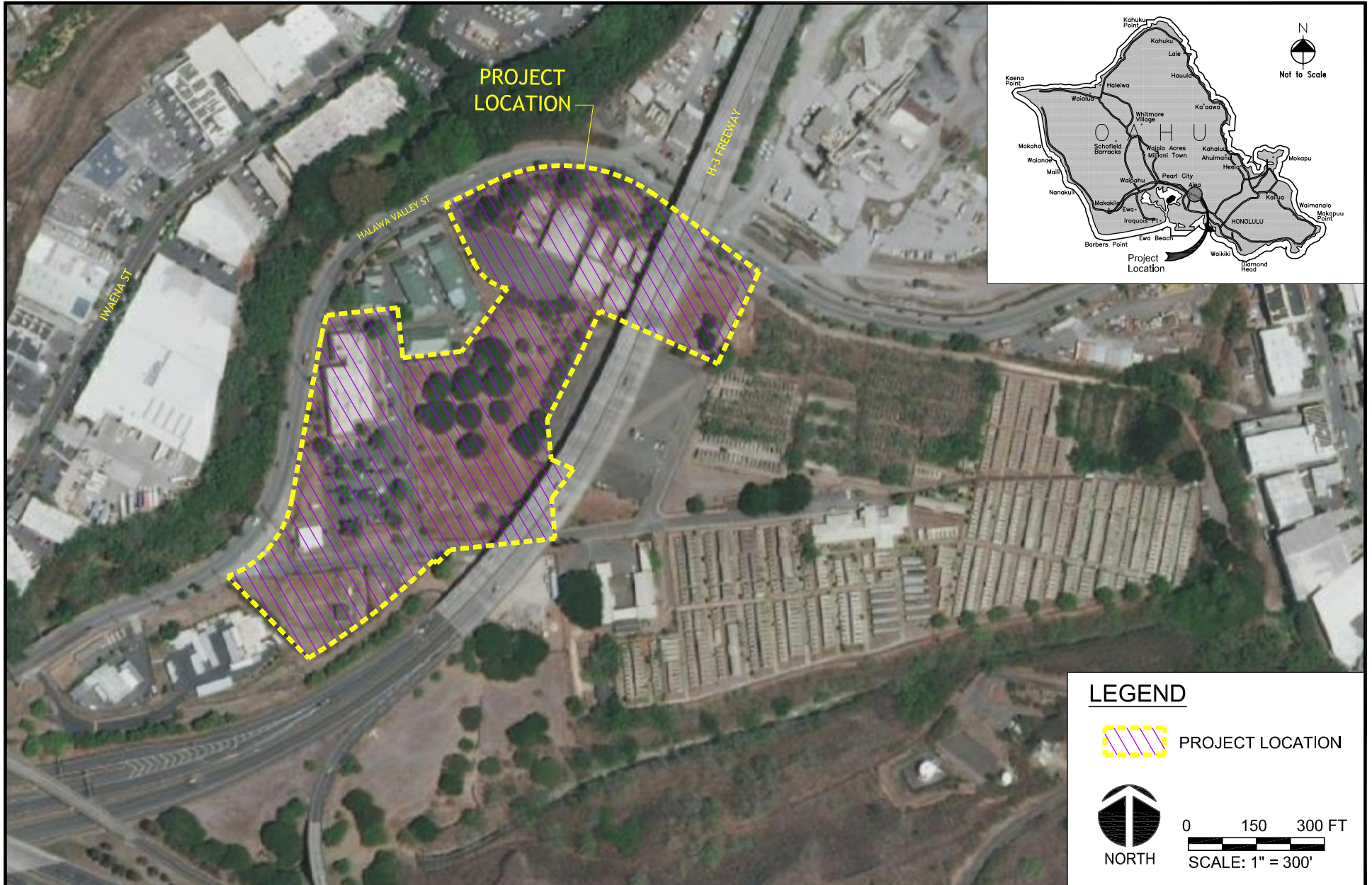


FIGURE A

PROJECT LOCATION AND VICINITY MAP

OAHU COMMUNITY CORRECTIONAL CENTER PHASE 2
ANIMAL QUARANTINE STATION RELOCATION
HALAWA, OAHU, HAWAII



WILSON OKAMOTO
CORPORATION

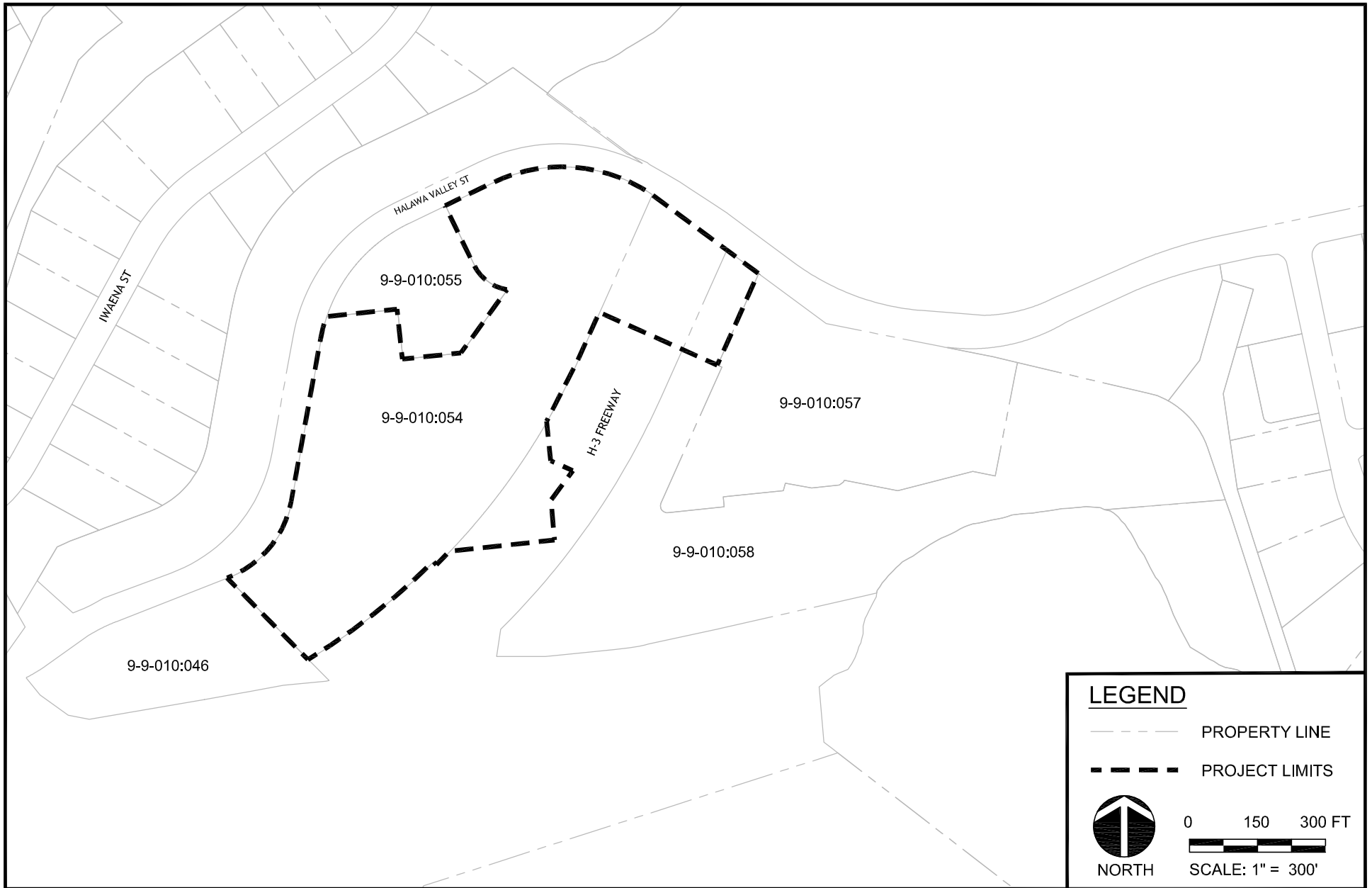


FIGURE B
TAX MAP KEY

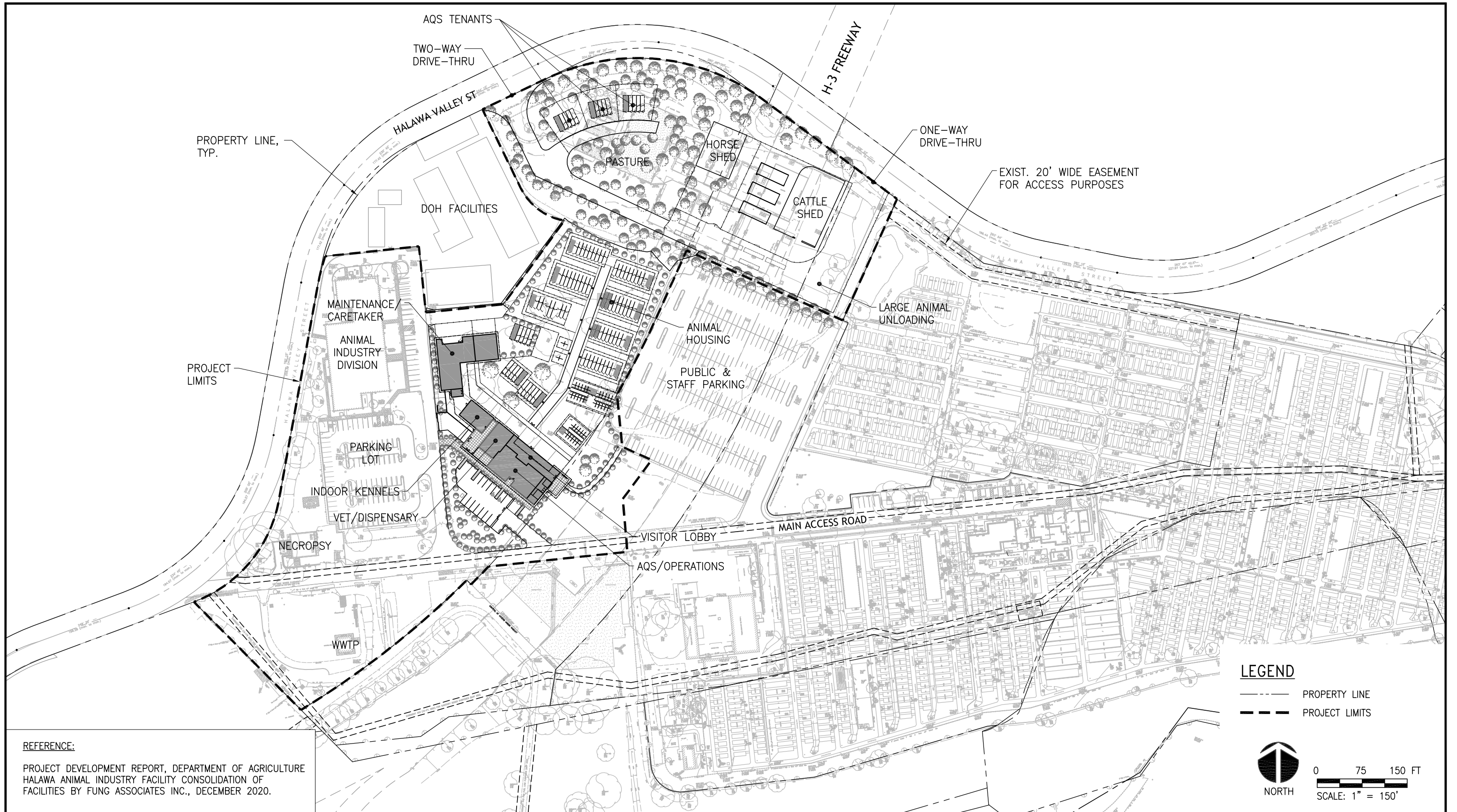


FIGURE C
CONCEPTUAL SITE LAYOUT

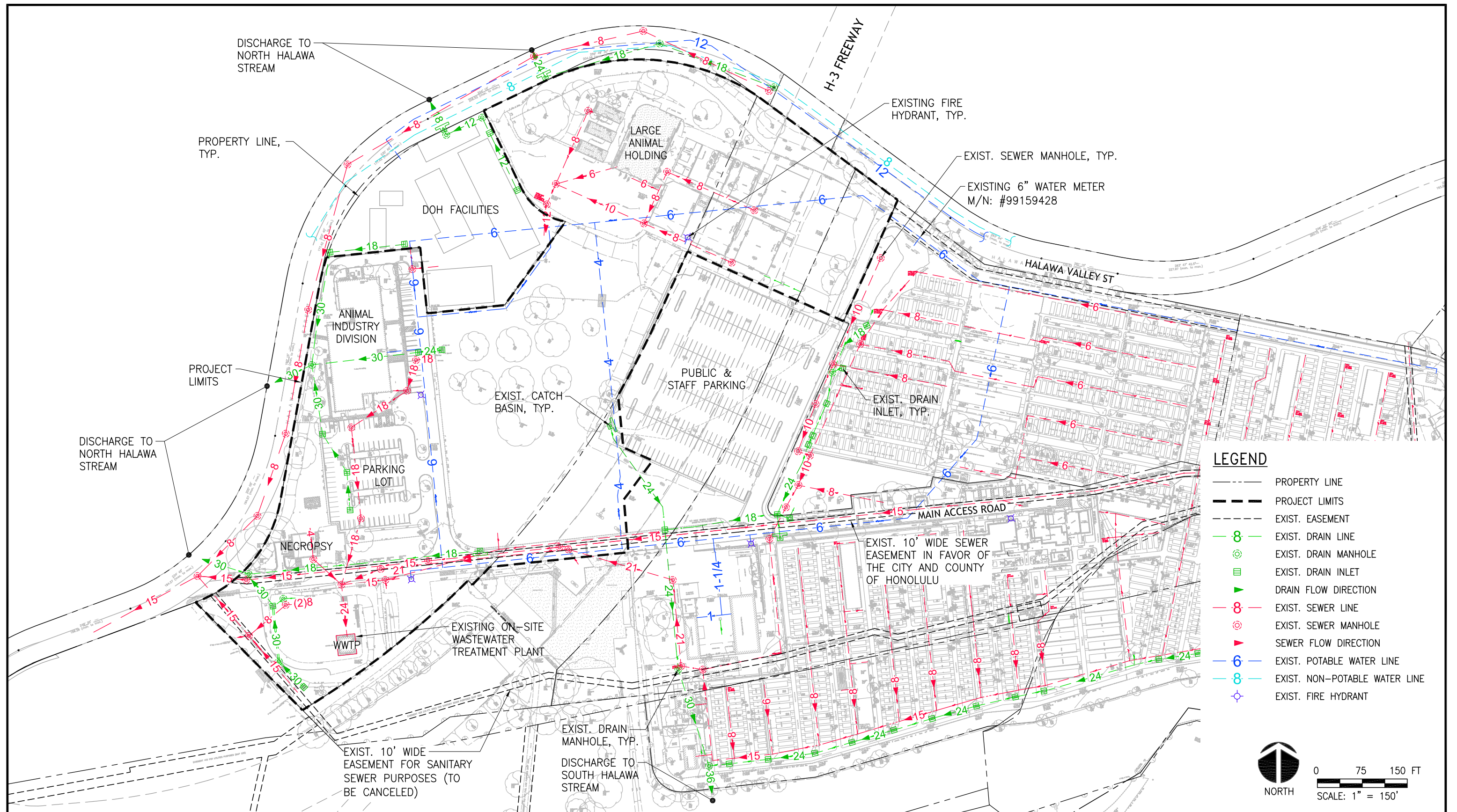


FIGURE D

EXISTING UTILITY SYSTEM





FIGURE E

CONCEPTUAL STORM DRAINAGE SYSTEM

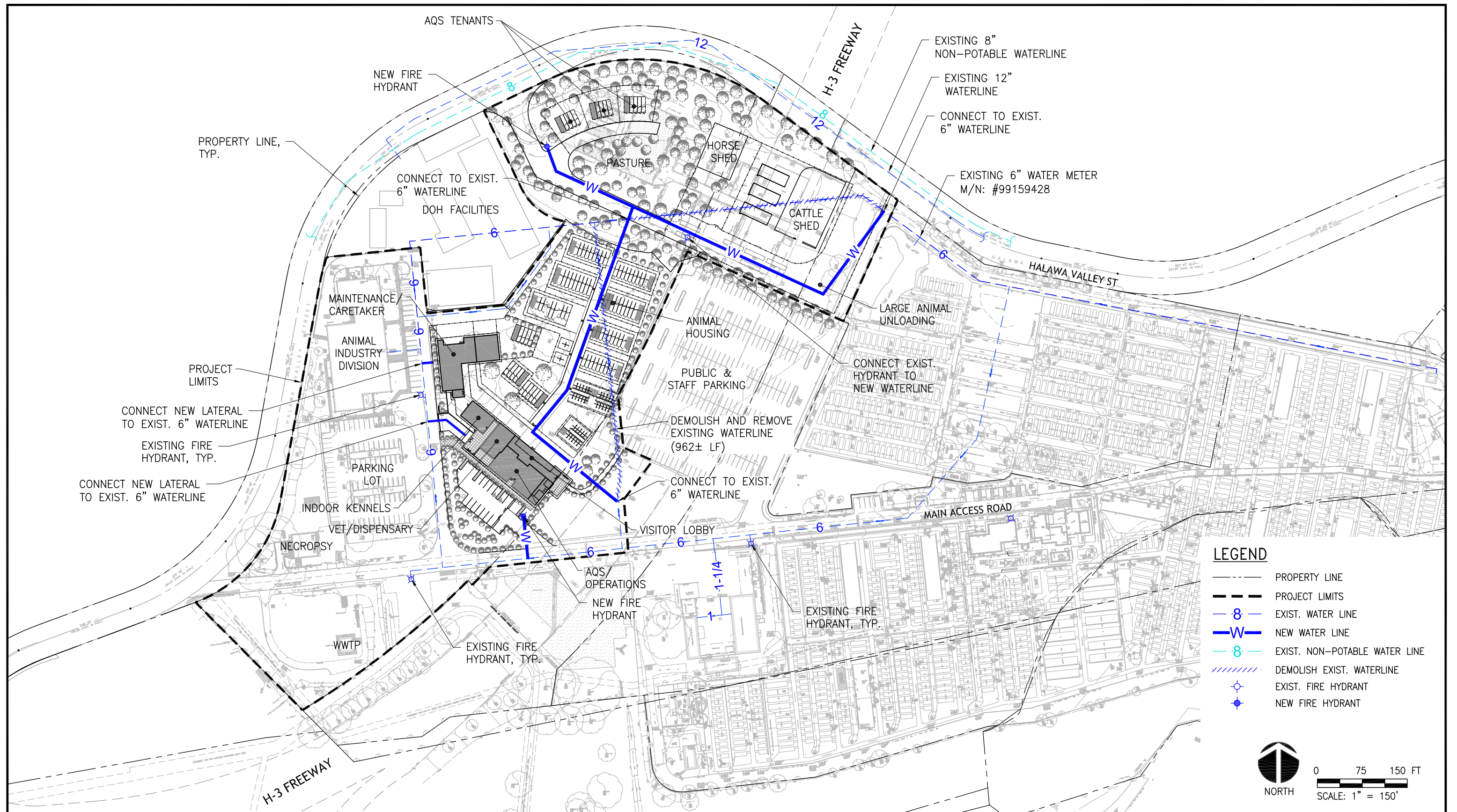


FIGURE F

CONCEPTUAL WATER SUPPLY SYSTEM



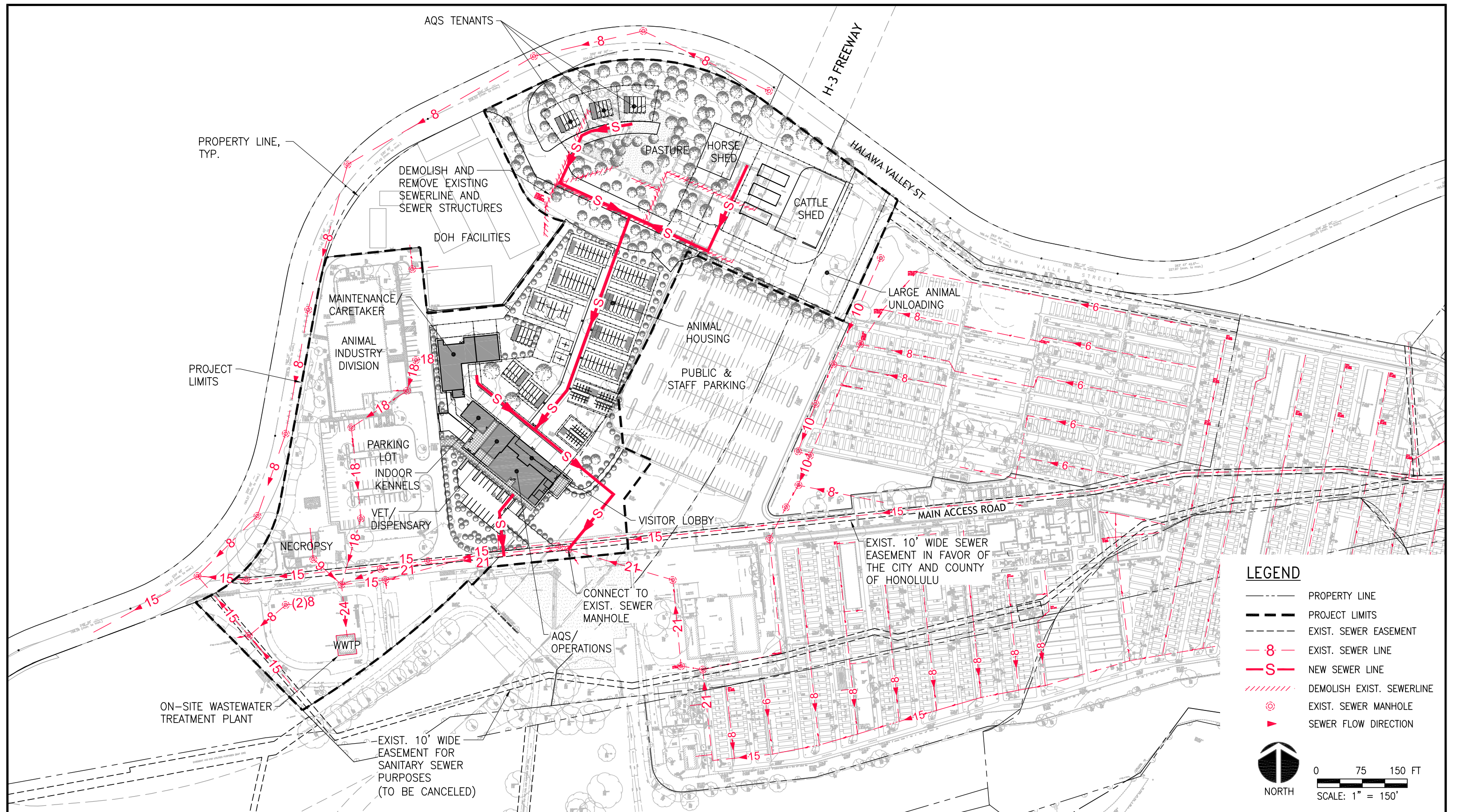


FIGURE G

CONCEPTUAL SANITARY SEWER SYSTEM



APPENDIX B

Water Supply System Information

Initial Request Letter for Adequacy Inquiry and Pressure Data
submitted June 2, 2017

Water Availability Response Letter from BWS dated June 30, 2017.

Updated Request Letter for Adequacy Inquiry and Pressure Data
submitted October 25, 2021

Water Availability Response Letter from BWS dated November 8, 2021



10136-01
 June 2, 2017

City and County of Honolulu
 Board of Water Supply
 Customer Care Division
 630 South Beretania Street
 Honolulu, HI 96813

Attention: Mr. Robert Chun

Subject: OCCC Replacement/Relocation Study 2 – Animal Quarantine Site

Dear Mr. Chun:

Wilson Okamoto Corporation is the civil engineering consultant for the Department of Public Safety which is evaluating prospective sites for the replacement/relocation of the Oahu Community Correctional Center (OCCC). One of the prospective sites being considered is the Department of Agriculture Animal Quarantine Station which is located at 99-951 Halawa Valley Street, Aiea, Hawaii 96701. The project site is identified by Tax Map Key(s): 9-9-010:006, 046, 054, 057, and 058.

At this time we would like to get your assistance in determining the adequacy of the existing BWS storage and water distribution system in the vicinity of the project site to support the proposed project. The proposed project will construct a new facility at the project site to accommodate the OCCC relocation. The existing Animal Quarantine Station will be relocated to the west side of the site with the total number of kennels being reduced from 1,600 to 200. The following table is an approximate summary of the existing and proposed project program.

Existing Program Information		
<u>Animal Quarantine Station</u>		
Staff	Kennels	Avg. Daily Water Demand (gpd)
37	1,600	120,925

Proposed Program Information						
<u>Animal Quarantine Station</u>			<u>OCCC Relocation</u>			Total Daily Water Demand (gpd)
Staff	Kennels	Avg. Daily Water Demand (gpd)	Staff	Inmates	Avg. Daily Water Demand (gpd)	
35	200	15,875	650	1,380	188,750	204,625



 PROJECT AREA

Sources:
 ESRI BING Imagery Service,
 obtained 2016.
 OCCC Redevelopment Planning.
 Coordinate System: State Plane
 Hawaii FIPS 3, NAD 83

October 2016

KEY MAP



**Future of Oahu
 Community Correctional Center
 Oahu, Hawaii**



**State of Hawaii
 Department of Public Safety**



0 100 200
 Feet



 PROJECT AREA

Sources:
 ESRI BING Imagery Service,
 obtained 2016.
 OCCC Redevelopment Planning.
 Coordinate System: State Plane
 Hawaii FIPS 3, NAD 83

October 2016

KEY MAP



**Future of Oahu
 Community Correctional Center
 Oahu, Hawaii**

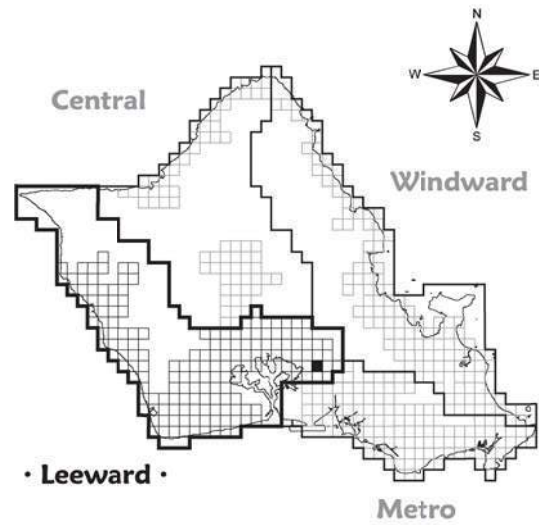


**State of Hawaii
 Department of Public Safety**



0 100 200
 Feet

Tile: R30C39 (Leeward)



LEGEND

WATER MAIN TYPES

- Service
- Bypass
- Distribution
- Lateral
- Maintenance
- Transmission
- Private
- Non-Potable

PIPE CASINGS

- Concrete Jacket over DI pipe
- Pipeline Tunnel

MISCELLANEOUS

- ▨ Building Footprint
- ▨ Facility
- - - Inset Frame
- - - Stream Centerline

MATERIALS

- AC ASBESTOS CEMENT
- AC-JM AC-JOHNS MANSVILLE
- AC-KM AC-KEASBEY MATTISON
- CC CONCRETE CYLINDER
- CC-A CC-AMERICAN
- CC-H CC-HAWAII
- CC-S CC-SOUTHERN
- CI CAST IRON
- CU COPPER
- DI DUCTILE IRON
- GI GALVANIZED IRON
- PVC POLYVINYL CHLORIDE
- STL STEEL

- CP CATHODIC PROTECTION
- NP NON-POTABLE

BILLING METERS

- CM Compound
- DC Detector Check
- FM FM
- Unknown

FITTINGS

- ⊕ Cut & Plug
- ⊕ Emergency Connection
- ⊕ Flow Tube
- ⊕ Reducer
- ⊕ Transition Coupling

FIRE HYDRANT

- ◇ Fire Hydrant
- 99 No Fire Hydrant Number

OPERATIONAL METERS

- FL Flow
- MS Master
- TUR Turbine
- Unknown
- ⊕ Venturi

PUMPS

- ⊕ Lift
- ⊕ Line
- ⊕ Source

RESERVOIR

- ⊕ Reservoir

SOURCES

- ⊕ Shaft
- ⊕ Source Well
- ⊕ Spring
- ⊕ Tunnel
- Unknown

VALVES

- Air Release
- ⊕ Air Release BFV
- ⊕ Air Release BGGV
- ⊕ Air Release Gate
- Altitude
- ⊕ Backflow Preventor
- ⊕ Bevel Gear Gate
- ⊕ Butterfly
- ⊕ Check
- ⊕ Closed
- ⊕ Control
- ⊕ English
- ⊕ Flap
- ⊕ Float
- ⊕ Gate
- ⊕ Pressure Reducing
- ⊕ Pressure Relief
- ⊕ Pressure Sustaining
- ⊕ Solenoid Control
- ⊕ Spur Gear Gate
- ⊕ Square Bottom Bevel Gear
- ⊕ Stopcock
- ⊕ Tapping
- Unknown

WATER TREATMENT PLANTS

- ⊕ Aeration
- ⊕ Blender
- ⊕ Chlorination
- ⊕ GAC
- ⊕ Recycled Water Facility
- ⊕ Sand Filtration



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 City & County of Honolulu
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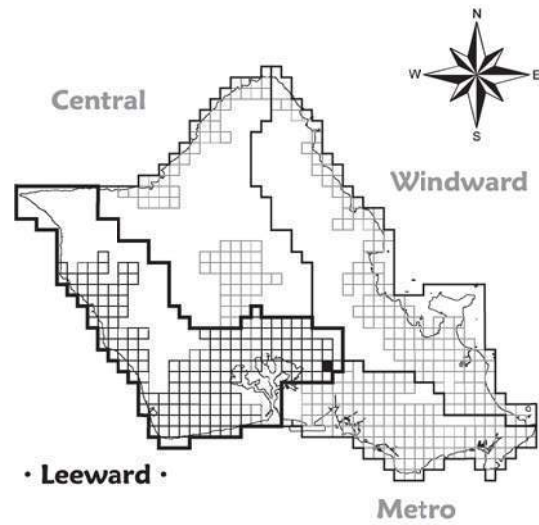
This map is a schematic representation of the water distribution system. Some features have been exaggerated for clarity & may not be to scale.
 Revisions as of: 4/25/2006



0 100 200 400 Feet

R31C39

Tile: R30C40 (Leeward)



LEGEND

WATER MAIN TYPES

- Service
- Bypass
- Distribution
- Lateral
- Maintenance
- Transmission
- Private
- Non-Potable

PIPE CASINGS

- Concrete Jacket over DI pipe
- Pipeline Tunnel

MISCELLANEOUS

- ▨ Building Footprint
- ▨ Facility
- - - Inset Frame
- - - Stream Centerline

MATERIALS

- AC ASBESTOS CEMENT
- AC-JM AC-JOHNS MANSVILLE
- AC-KM AC-KEASBEY MATTISON
- CC CONCRETE CYLINDER
- CC-A CC-AMERICAN
- CC-H CC-HAWAII
- CC-S CC-SOUTHERN
- CI CAST IRON
- CU COPPER
- DI DUCTILE IRON
- GI GALVANIZED IRON
- PVC POLYVINYL CHLORIDE
- STL STEEL

- CP CATHODIC PROTECTION
- NP NON-POTABLE

BILLING METERS

- CM Compound
- DC Detector Check
- FM FM
- Unknown

FITTINGS

- ✚ Cut & Plug
- ✚ Emergency Connection
- ✚ Flow Tube
- ✚ Reducer
- ✚ Transition Coupling

FIRE HYDRANT

- ◇ Fire Hydrant
- 99 No Fire Hydrant Number

OPERATIONAL METERS

- FL Flow
- MS Master
- TUR Turbine
- Unknown
- ✚ Venturi

PUMPS

- ⊡ Lift
- ⊡ Line
- ⊡ Source

RESERVOIR

- ⊡ Reservoir

SOURCES

- ⊡ Shaft
- ⊡ Source Well
- ⊡ Spring
- ⊡ Tunnel
- Unknown

VALVES

- Air Release
- ⊙ Air Release BFV
- ⊙ Air Release BGGV
- ⊙ Air Release Gate
- Altitude
- ⊕ Backflow Preventor
- ⊕ Bevel Gear Gate
- ⊕ Butterfly
- ⊕ Check
- ⊕ Closed
- ⊕ Control
- ⊕ English
- ⊕ Flap
- ⊕ Float
- ⊕ Gate
- ⊕ Pressure Reducing
- ⊕ Pressure Relief
- ⊕ Pressure Sustaining
- ⊕ Solenoid Control
- ⊕ Spur Gear Gate
- ⊕ Square Bottom Bevel Gear
- ⊕ Stopcock
- ⊕ Tapping
- ⊕ Unknown

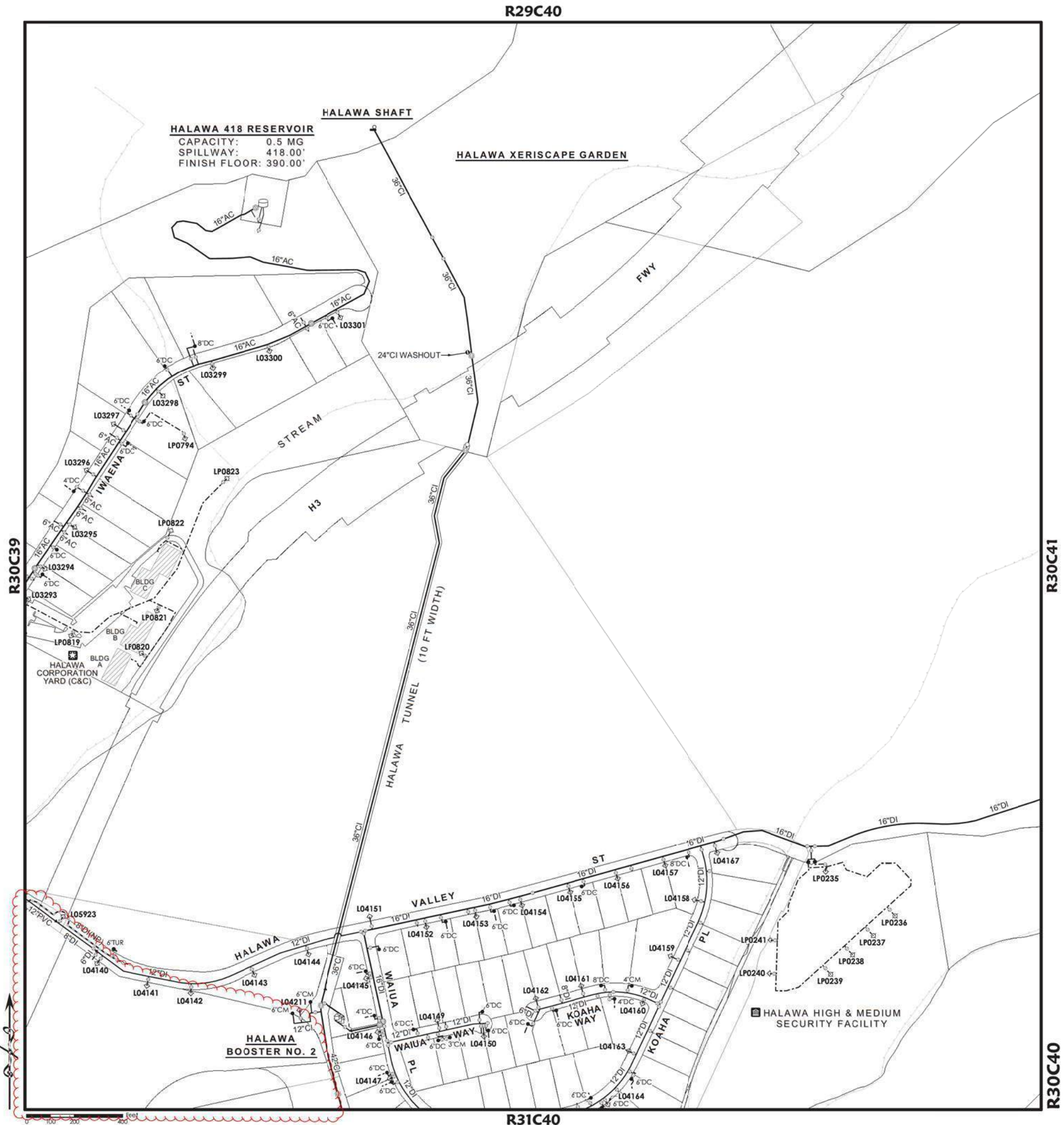
WATER TREATMENT PLANTS

- ⊡ Aeration
- ⊡ Blender
- ⊡ Chlorination
- ⊡ GAC
- ⊡ Recycled Water Facility
- ⊡ Sand Filtration



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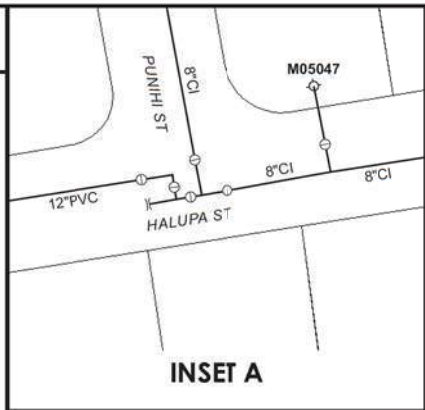
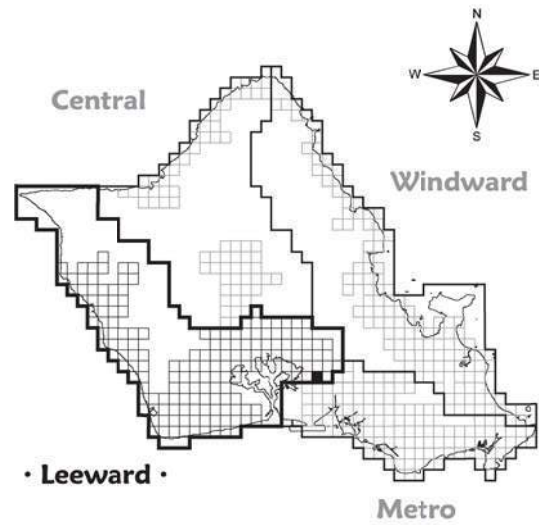


R31C40

R30C41

R30C40

Title: R31C39 (Leeward)



LEGEND

WATER MAIN TYPES

- Service
- Bypass
- Distribution
- Lateral
- Maintenance
- Transmission
- Private
- Non-Potable

PIPE CASINGS

- Concrete Jacket over DI pipe
- Pipeline Tunnel

MISCELLANEOUS

- ▨ Building Footprint
- ▨ Facility
- - - Inset Frame
- - - Stream Centerline

MATERIALS

- | | |
|-------|---------------------|
| AC | ASBESTOS CEMENT |
| AC-JM | AC-JOHNS MANSVILLE |
| AC-KM | AC-KEASBEY MATTISON |
| CC | CONCRETE CYLINDER |
| CC-A | CC-AMERICAN |
| CC-H | CC-HAWAII |
| CC-S | CC-SOUTHERN |
| CI | CAST IRON |
| CU | COPPER |
| DI | DUCTILE IRON |
| GI | GALVANIZED IRON |
| PVC | POLYVINYL CHLORIDE |
| STL | STEEL |
| CP | CATHODIC PROTECTION |
| NP | NON-POTABLE |

BILLING METERS

- CM Compound
- DC Detector Check
- FM FM
- Unknown

FITTINGS

- ⊕ Cut & Plug
- ⊕ Emergency Connection
- ⊕ Flow Tube
- ⊕ Reducer
- ⊕ Transition Coupling

FIRE HYDRANT

- ◇ Fire Hydrant
- 99 No Fire Hydrant Number

OPERATIONAL METERS

- FL Flow
- MS Master
- TUR Turbine
- Unknown
- ⊕ Venturi

PUMPS

- ⊕ Lift
- ⊕ Line
- ⊕ Source

RESERVOIR

- ⊕ Reservoir

SOURCES

- ⊕ Shaft
- ⊕ Source Well
- ⊕ Spring
- ⊕ Tunnel
- Unknown

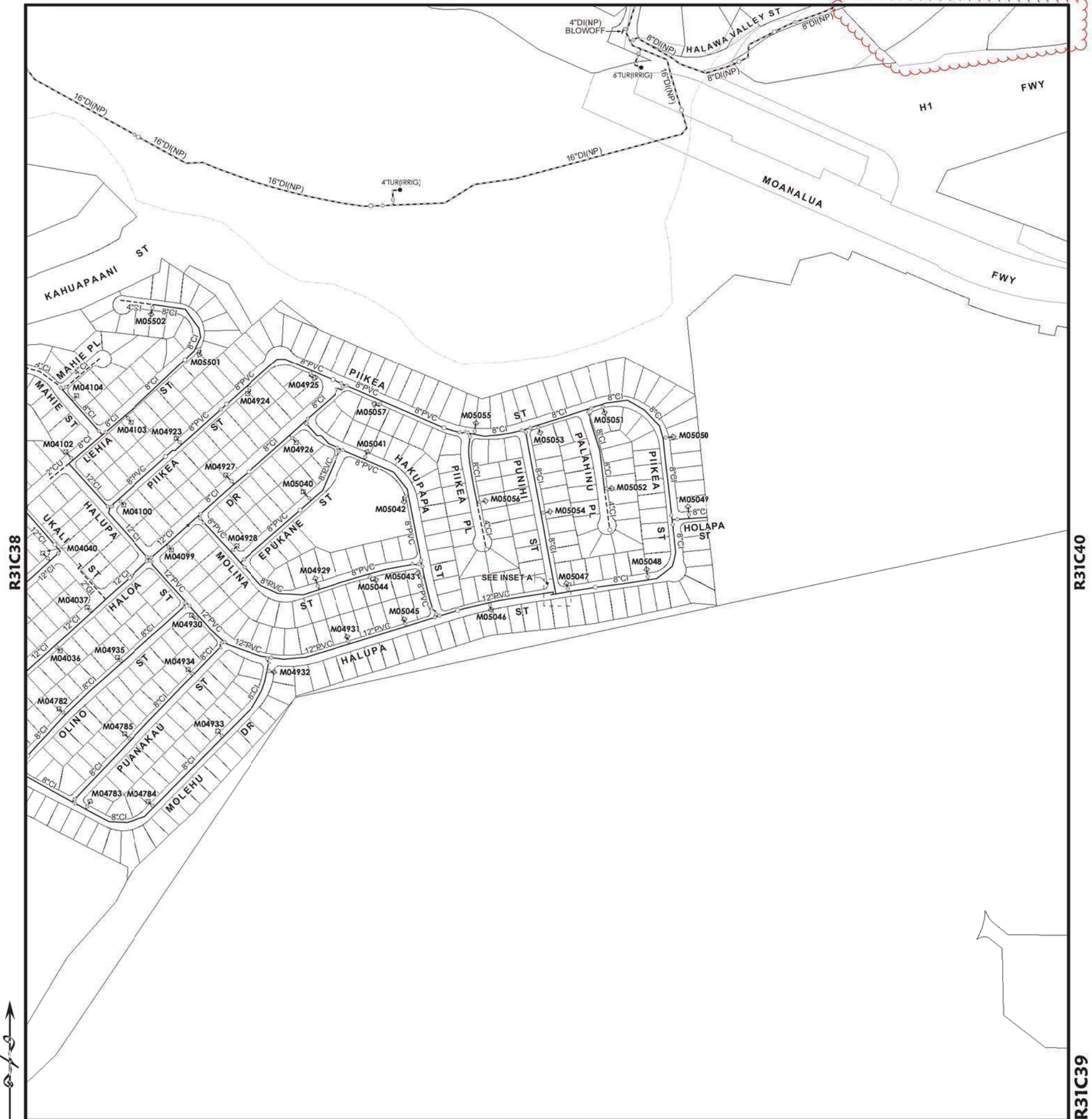
VALVES

- Air Release
- ⊕ Air Release BGV
- ⊕ Air Release BGGV
- ⊕ Air Release Gate
- Altitude
- ⊕ Backflow Preventor
- ⊕ Bevel Gear Gate
- ⊕ Butterfly
- ⊕ Check
- ⊕ Closed
- ⊕ Control
- ⊕ English
- ⊕ Flap
- ⊕ Float
- ⊕ Gate
- ⊕ Pressure Reducing
- ⊕ Pressure Relief
- ⊕ Pressure Sustaining
- ⊕ Solenoid Control
- ⊕ Spur Gear Gate
- ⊕ Square Bottom Bevel Gear
- ⊕ Stopcock
- ⊕ Tapping
- Unknown

WATER TREATMENT PLANTS

- ⊕ Aeration
- ⊕ Blender
- ⊕ Chlorination
- GAC
- ⊕ Recycled Water Facility
- ⊕ Sand Filtration

R30C39

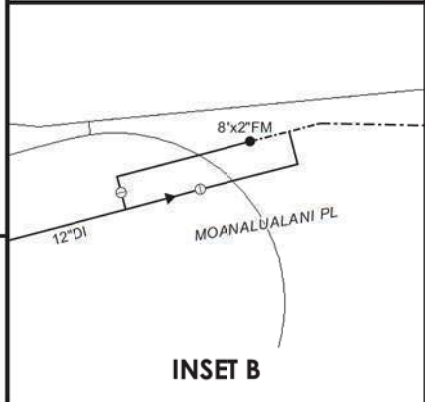
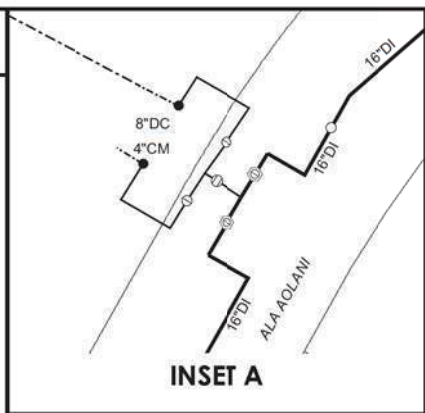
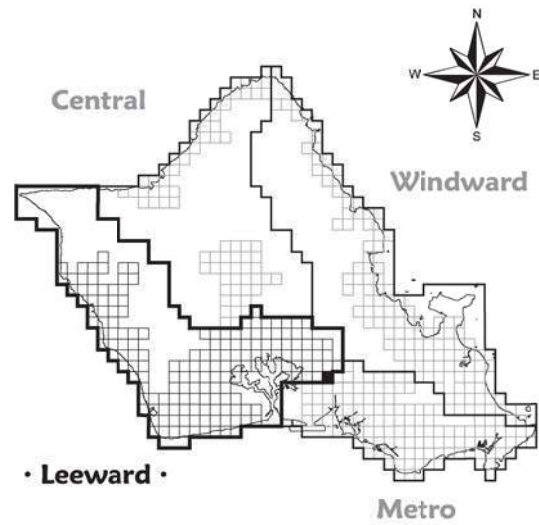


R31C40

R31C39

R32C39

Tile: R31C40 (Leeward)



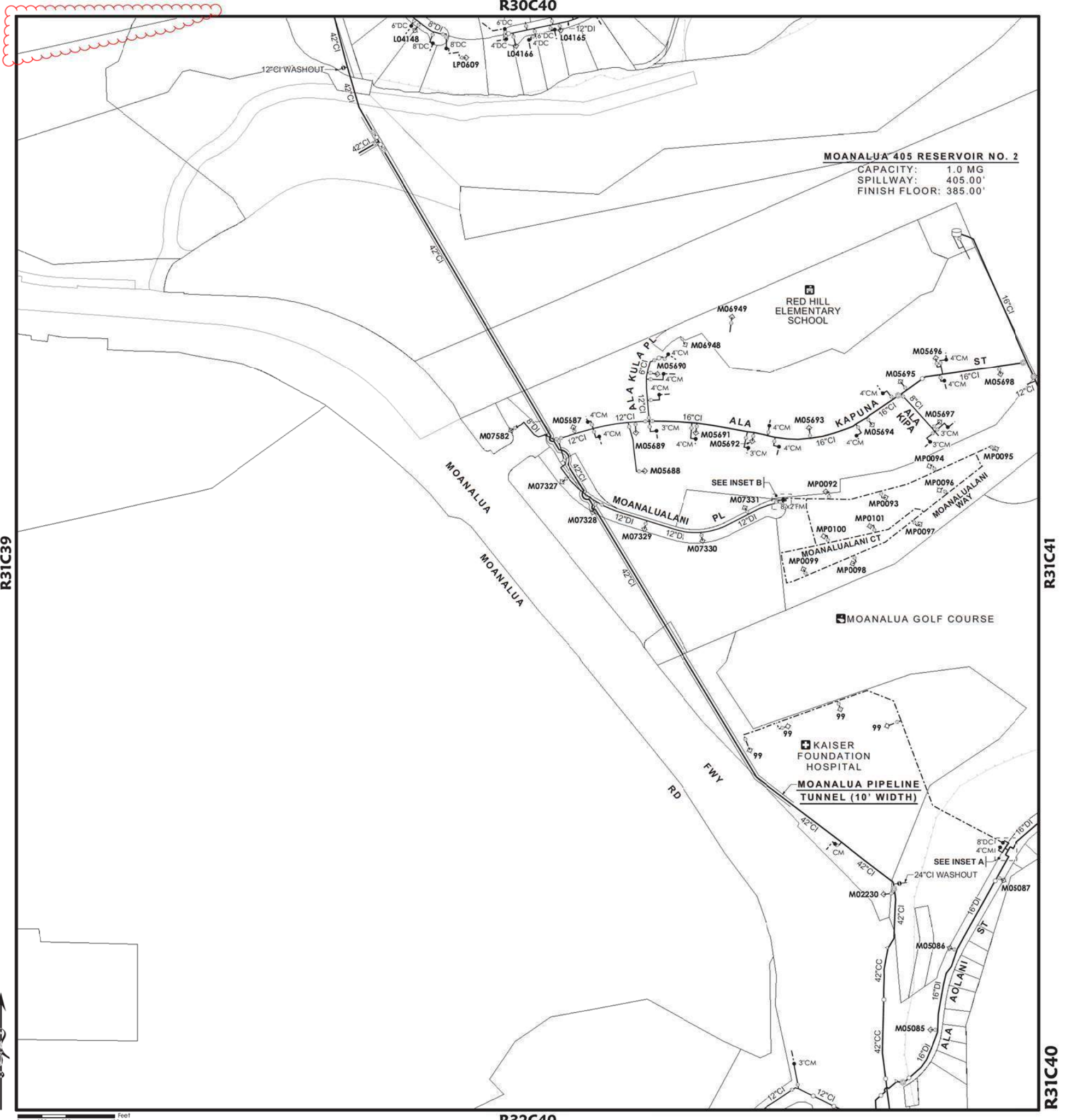
LEGEND

- | | |
|--|--|
| <p>WATER MAIN TYPES</p> <ul style="list-style-type: none"> --- Service --- Bypass --- Distribution --- Lateral --- Maintenance --- Transmission --- Private --- Non-Potable <p>PIPE CASINGS</p> <ul style="list-style-type: none"> --- Concrete Jacket over DI pipe --- Pipeline Tunnel <p>MISCELLANEOUS</p> <ul style="list-style-type: none"> ▨ Building Footprint ▩ Facility - - - Inset Frame - - - Stream Centerline <p>MATERIALS</p> <ul style="list-style-type: none"> AC ASBESTOS CEMENT AC-JM AC-JOHNS MANSVILLE AC-KM AC-KEASBEY MATTISON CC CONCRETE CYLINDER CC-A CC-AMERICAN CC-H CC-HAWAII CC-S CC-SOUTHERN CI CAST IRON CU COPPER DI DUCTILE IRON GI GALVANIZED IRON PVC POLYVINYL CHLORIDE STL STEEL <p>CP CATHODIC PROTECTION
NP NON-POTABLE</p> <p>BILLING METERS</p> <ul style="list-style-type: none"> ● CM Compound ● DC Detector Check ● FM FM ● Unknown <p>FITTINGS</p> <ul style="list-style-type: none"> ⊥ Cut & Plug ⊕ Emergency Connection ⊕ Flow Tube ⊕ Reducer ⊕ Transition Coupling <p>FIRE HYDRANT</p> <ul style="list-style-type: none"> ◇ Fire Hydrant 99 No Fire Hydrant Number | <p>OPERATIONAL METERS</p> <ul style="list-style-type: none"> ● FL Flow ● MS Master ● TUR Turbine ● Unknown ⊕ Venturi <p>PUMPS</p> <ul style="list-style-type: none"> ⊕ Lift ⊕ Line ⊕ Source <p>RESERVOIR</p> <ul style="list-style-type: none"> ⊕ Reservoir <p>SOURCES</p> <ul style="list-style-type: none"> ⊕ Shaft ⊕ Source Well ⊕ Spring ⊕ Tunnel ● Unknown <p>VALVES</p> <ul style="list-style-type: none"> ○ Air Release ⊕ Air Release BfV ⊕ Air Release BGGV ⊕ Air Release Gate □ Altitude ⊕ Backflow Preventor ⊕ Bevel Gear Gate ⊕ Butterfly ⊕ Check ⊕ Closed ⊕ Control ⊕ English ⊕ Flap ⊕ Float ⊕ Gate ⊕ Pressure Reducing ⊕ Pressure Relief ⊕ Pressure Sustaining ⊕ Solenoid Control ⊕ Spur Gear Gate ⊕ Square Bottom Bevel Gear ⊕ Stopcock ⊕ Tapping ○ Unknown <p>WATER TREATMENT PLANTS</p> <ul style="list-style-type: none"> ⊕ Aeration ⊕ Blender ⊕ Chlorination ⊕ GAC ⊕ Recycled Water Facility ⊕ Sand Filtration |
|--|--|



This map is a schematic representation of the water distribution system. Some features have been exaggerated for clarity & may not be to scale.

Revisions as of: 4/25/2006



R31C39

R31C41

R31C40

R32C40

BOARD OF WATER SUPPLY

CITY AND COUNTY OF HONOLULU
630 SOUTH BERETANIA STREET
HONOLULU, HI 96843
www.boardofwatersupply.com



June 19, 2017

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KAY C. MATSUI

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ERNEST Y. W. LAU, P.E.
Manager and Chief Engineer

ELLEN E. KITAMURA, P.E.
Deputy Manager and Chief Engineer. *ek*

Mr. Mason M. M. Suga, P.E.
Wilson Okamoto Corporation
1907 South Beretania Street, Suite 400
Honolulu, Hawaii 96826

Dear Mr. Suga:

Subject: Your Letter Dated June 2, 2017 Requesting the Availability of Water and Fire Flow and Pressure Data for the Proposed Oahu Community Correctional Center Replacement/Relocation Study 2 – Animal Quarantine Site Located at 99-951 Halawa Valley Street – Tax Map Key: 9-9-010: 006, 046, 054, 057, 058

Thank you for your letter regarding the proposed Oahu Community Correctional Center replacement/relocation study project.

The existing water system is adequate to provide domestic and off-site fire protection to the proposed development. However, please be advised that this information is based upon current data, and therefore, the Board of Water Supply (BWS) reserves the right to change any position or information stated herein up until the final approval of the building permit application. The final decision on the availability of water will be confirmed when the building permit application is submitted for approval.

The construction drawings should be submitted for our review and the construction schedule should be coordinated to minimize impact to the water system.

When water is made available, the applicant will be required to pay our Water System Facilities Charges for resource development, transmission and daily storage.

The BWS has suspended fire flow tests on fire hydrants as a water conservation measure. However, you may use the following calculated flow data for Fire Hydrant No. L03281, L04140, L04141, L04142, L04143, L04144, L04211, and L05923:

Fire Hydrant Number	Location	Static Pressure (psi)	Residual Pressure (psi)	Flow (gpm)
L03281	Iwaena Street	145	105	4000
L04140	Halawa Valley St.	99	42	4000
L04141	Halawa Valley St.	100	46	4000
L04142	Halawa Valley St.	100	49	4000
L04143	Halawa Valley St.	92	47	4000
L04144	Halawa Valley St.	87	47	4000
L04211	Halawa Valley St.	19	20	3250
L05923	Halawa Valley St.	104	21	4000

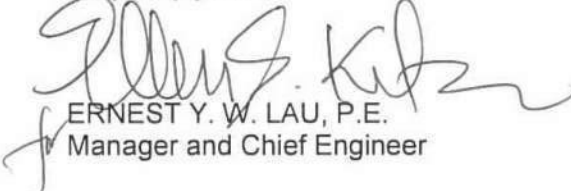
Mr. Mason M. M. Suga
June 19, 2017
Page 2

The data are based on the existing water system, and the static pressure represents the theoretical pressure at the point of calculation with the reservoir full and no demands on the water system. The static pressure is not indicative of the actual pressure in the field. Therefore, in order to determine the flows that are available to the site, you will have to determine the actual field pressure by taking on-site pressure readings at various times of the day and correlating that field data with the above hydraulic design data.

The map showing the location of the fire hydrants is attached.

If you have any questions, please contact Robert Chun, Project Review Branch of our Water Resources Division at 748-5443.

Very truly yours,



ERNEST Y. W. LAU, P.E.
Manager and Chief Engineer

Attachment



10136-03
 October 25, 2021

City and County of Honolulu
 Board of Water Supply
 Customer Care Division
 630 South Beretania Street
 Honolulu, HI 96813

Attention: Mr. Robert Chun

Subject: Oahu Community Correctional Center - Phase 2
 Animal Quarantine Station Relocation
 Tax Map Key(s): 9-9-010:006, 046, 054, 057, and 058

Dear Mr. Chun:

Thank you for your letter dated June 19, 2017, in response to our water availability and flow information inquiry for the proposed relocation of the Oahu Community Correctional Center (OCCC) to the Department of Agriculture Animal Quarantine Station which is located at 99-951 Halawa Valley Street, Aiea, Hawaii 96701.

The proposed project program for the Animal Quarantine Station relocation to the northwest portion of the site within TMK 9-9-010:054 has since been updated based on additional coordination with the Department of Agriculture. At this time, we would like your assistance in confirming the adequacy of the existing BWS storage and water distribution system to support the updated programming for the Animal Quarantine Station and OCCC relocation. Based upon the updated AQS programming, a reduced number of kennels are planned and thus there is a slight reduction in the proposed water demand which was estimated back in June 2017. The following tables describes the existing and proposed program information as well as the approximate average daily water demand for both conditions.

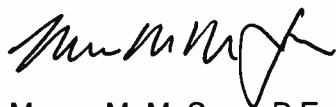
Existing Program Information		
<u>Animal Quarantine Station</u>		
Staff	Kennels	Avg. Daily Water Demand (gpd)
37	1,600	120,925

Proposed Program Information – 2021 AQS Update							
<u>Animal Quarantine Station</u>				<u>OCCC Relocation</u>			Total Daily Water Demand (gpd)
Staff	Visitors	Kennels	Avg. Daily Water Demand (gpd)	Staff	Inmates	Avg. Daily Water Demand (gpd)	
35	131	143	12,255	650	1,380	188,750	201,005

10136-03
Letter to City and County of Honolulu BWS
Page 2
October 25, 2021

Please call 946-2277 should you have any questions or require additional information.

Sincerely,

A handwritten signature in black ink, appearing to read "Mason M. Suga". The signature is fluid and cursive, with a large loop at the end.

Mason M. M. Suga, P.E.
Project Manager

Enclosures: Site Plan
BWS Water Availability and Flow Info Letter dated 2017-06-19.



Area Number	TMK	Listed Land Area (Ac.)	Land Area within AQS Site (ac.)	Description
1	9-9-010: 006 (por.)	100+	3.47	Navy owned parcel; only small portion falls within AQS site.
2	9-9-010: 046 (por.)	21.46	1	Existing HDOA land; only small portion falls within AQS site.
3	9-9-010: 054	9.66	9.66	Existing HDOA land.
4	9-9-010: 057	5.5	5.5	Existing HDOA land.
5	9-9-010: 058	9.78	9.78	Existing HDOA land.
6	Portion of Halawa Interchange (no TMK)	n/a	3.1	DOT land falling within site boundary; no defined parcel.
7	Portion of Halawa Interchange (no TMK)	n/a	5.7	DOT land falling within site boundary underneath H3 overpass; no defined parcel.

▭ Animal Quarantine Station Site
▭ Tax Map Parcel Boundary
▬ Stream


DLNR - Hawaii Department of Land and Natural Resources
 PSD - Hawaii Department of Public Safety
 USDA-PPQ - United States Department of Agriculture-Plant Protection & Quarantine
 CBP - Customs and Border Protection
 MWR - Morale, Welfare and Recreation
 HDOA-PQ - Hawaii Department of Agriculture Plant Quarantine

Sources:
ESRI BING Imagery Service, obtained 2018.

June 2018



Figure 2
Site Plan
Future Oahu Community Correctional Center


State of Hawaii
Department of Public Safety

N
 0 150 300
 Feet

BOARD OF WATER SUPPLY

CITY AND COUNTY OF HONOLULU
630 SOUTH BERETANIA STREET
HONOLULU, HI 96843
www.boardofwatersupply.com



November 8, 2021

RICK BLANGIARDI, MAYOR

BRYAN P. ANDAYA, Chair
KAPUA SPROAT, Vice Chair
RAY C. SOON
MAX J. SWORD
NA'ALEHU ANTHONY

JADE T. BUTAY, Ex-Officio
ROGER BABCOCK, Jr., Ex-Officio

ERNEST Y. W. LAU, P.E.
Manager and Chief Engineer

ELLEN E. KITAMURA, P.E.
Deputy Manager and Chief Engineer

Mr. Mason Suga
Wilson Okamoto Corporation
1907 South Beretania Street, Suite 400
Honolulu, Hawaii 96826

Dear Mr. Suga:

Subject: Your Letter Dated October 25, 2021 Regarding Availability of Water for Oahu
Community Correctional Center - Phase 2 Animal Quarantine Station Relocation
Project off Halawa Valley Street - Tax Map Key: 9-9-010: 006, 046, 055, 057, & 058

Thank you for your letter regarding the proposed correctional center relocation project.

The existing water system is adequate to accommodate the proposed development. However, please be advised that this information is based upon current data, and therefore, the Board of Water Supply (BWS) reserves the right to change any position or information stated herein up until the final approval of the building permit application. The final decision on the availability of water will be confirmed when the building permit application is submitted for approval.

When water is made available, the applicant will be required to pay our Water System Facilities Charges for resource development, transmission, and daily storage.

Water conservation measures are required for all proposed developments. These measures include utilization of nonpotable water for irrigation using rain catchment, drought tolerant plants, xeriscape landscaping, efficient irrigation systems, such as a drip system and moisture sensors, and the use of Water Sense labeled ultra-low flow water fixtures and toilets.

The proposed project is subject to BWS Cross-Connection Control and Backflow Prevention requirements prior to the issuance of the Building Permit Applications.

The on-site fire protection requirements should be coordinated with the Fire Prevention Bureau of the Honolulu Fire Department.

If you have any questions, please contact Robert Chun, Project Review Branch of our Water Resources Division at (808) 748-5443.

Very truly yours,

ERNEST Y. W. LAU, P.E.
Manager and Chief Engineer

cc: **Service Engineering (Customer Care)**
R. Chun

WR-21-150

APPENDIX C

Sanitary Sewer System Information

Sewer Connection Application submitted February 1, 2022

Approved Sewer Connection Application dated February 2, 2022

SITE DEVELOPMENT DIVISION MASTER APPLICATION FORM

All required documents and fees must accompany this application form. Please visit www.honoluluiddpp.org for applicable procedures and fees under the menu heading Application & Forms, Site Engineering and Subdivision Permits. Electronic submittal of permit applications and other permit-related documents constitutes agreement by the applicant or authorized representative to transact business electronically with this department, in accordance with HRS Chapter 489E.

I. PERMIT VARIANCE APPROVAL

Check one or more as appropriate:


- | | | | |
|--------------------------------------|--|--|--|
| <input type="checkbox"/> Grading | <input checked="" type="checkbox"/> Sewer Connection | <input type="checkbox"/> Flood Hazard Variance | <input type="checkbox"/> Subdivision, Easement Consolidation |
| <input type="checkbox"/> Grubbing | | <input type="checkbox"/> Flood Determination | <input type="checkbox"/> Park Dedication |
| <input type="checkbox"/> Stockpiling | | <input type="checkbox"/> Floodway Permit | <input type="checkbox"/> Lot Determination |
| <input type="checkbox"/> Trenching | | <input type="checkbox"/> Flood Map Revision | <input type="checkbox"/> Ag. Site Development |

Complete Sections I, II, III and all other sections as possible

II. LOT AND LAND USE INFORMATION

TAX MAP KEY(S) 9-9-010:006, 046, 054, 057, 058 Lot Area: 29.88 sq. ft. **ac**
Zoning District: Industrial I-2 Development Plan Designation: _____ State Land Use District: Urban
Street Address/Location of Property: 99-951 Halawa Valley Street Aiea, Hawaii 96701
Present Use of Property/Building: Animal Quarantine Station
Project Name (if any): Oahu Community Correctional Center - Phase 2
Request/Proposal (describe the nature of the request, proposed activity or project): Renewal of approved SCA number 2019/SCA-1119. Sewer Connection Application for the proposed relocation of the existing OCC facility to the current Animal Quarantine Station site in Halawa.

III. APPLICANT INFORMATION

	Owner/Developer	Engineer/Architect	Contractor (or Agent for Subdivision apps only)
Name (& title)	<u>Department of Public Safety</u>	<u>Wilson Okamoto Corporation</u>	<u>TBD</u>
Mailing Address	<u>919 Ala Moana Blvd, 4th Floor</u>	<u>1907 S. Beretania St., Suite 400</u>	
	<u>Honolulu HI 96814</u>	<u>Honolulu HI 96826</u>	
	<u>City State Zip</u>	<u>City State Zip</u>	<u>City State Zip</u>
Phone Number(s)	<u>(808) 587-3463</u>	<u>808-946-2277</u>	
Email Address	<u>wayne.j.takara@hawaii.gov</u>	<u>msuga@wilsonokamoto.com</u>	
APPLICANT	<u>Mason M. M. Suga</u>	<u>Project Manager, WOC</u>	
	<u>Print NAME of applicant</u>	<u>Print TITLE of applicant</u>	<u>Signature of applicant</u>

IV. FOR GRADING/GRUBBING/STOCKPILING INFORMATION ONLY

Estimated Dates: Start: _____ Completion: _____ Borrow Material: _____
Area of work (sf or acres): _____ Borrow Site: _____
Disturbed area (sf or acres): _____ Disposal Material: _____
Estimated Quantity (cy): Cut: _____ Fill: _____ Disposal Site: _____

V. AUTHORIZED AGENT

This statement of authorization is used in reference to the information provided for in sections I, II and III above.

I/We, _____, hereby authorize _____
Print NAME and TITLE of person giving authority Print NAME of person receiving authority (Authorized Agent)

to act in my/our behalf in obtaining/closing the Grading/Grubbing/Stockpiling/Trenching permit for the project.

Signature of Owner/Developer giving authority Date

FOR DIVISION USE ONLY:

Grading Permit No.: _____ Application No.: _____
Trenching Permit No.: _____ Date of Application: _____
Received By: _____

SITE DEVELOPMENT DIVISION MASTER APPLICATION FORM

(REVERSE SIDE)

VI. FOR TRENCHING INFORMATION ONLY

Tax Map Key(s): _____

Work to be performed for: _____ Work to be done: Service Connection Repair Borings

Estimated Dates: Start: _____ Completion: _____ Other: _____

Estimated Value of work: \$ _____ Dimensions: _____ ft/in _____ ft/in _____ ft/in
length width depth

in the city right - of - way

AGENCY CLEARANCES	SIGNATURE	DATE	ADDRESS	PHONE NO.
DPP, Wastewater Branch			650 So. King St., FMB, 1st Flr.	768-8210
DTS, Traffic Signal			650 So. King St., FMB, 2nd Flr.	768-8388
DDC, Street Lightning			650 So. King St., FMB, 11th Flr.	768-8431
BWS, Customer Care			630 So. Beretania St., 1st Flr.	748-5460
Hawaiian Electric Co., Inc., Engineering Division			820 Ward Avenue, 4th Flr.	543-5654
Hawaiian Telcom, Excavation			1177 Bishop St., Lobby	546-7746
Gasco., Inc., Maps & Records			515 Kamakee St., 1st Flr.	594-5575
Spectrum, Engineering & Construction			200 Akamainui St. haw.engineering.research@charter.com	625-8443
DFM, Division of Road Maintenance (if trenching 200 linear feet or more)			99-999 Iwaena Street, #214	786-3600

DPP: Dept. of Planning and Permitting DTS: Dept. of Transportation Services DDC: Dept. of Design and Construction BWS: Board of Water Supply DFM: Dept. of Facility Maintenance

Note to agencies providing clearances: Signatures on this form may be reproduced (scanned and emailed) and submitted electronically for permitting purposes in accordance with HRS Chapter 489E. Original wet signatures may be retained by the applicant(s).

Note to the applicants receiving clearances: The utilities listed above may not represent all underground utilities located within City rights-of-ways, nor do their utility clearances relieve the permittee from complying with all other applicable codes, rules, regulations, and/or permit procedures including, but not limited to, additional clearances and requirements for other utilities (i.e. irrigation, data transmission, etc.) located within City rights-of-ways. Pursuant to ROH 1990, Section 14-17.6, the permittee shall indemnify and save harmless the city for any injuries or damages to any person or property received or sustained by any person as a consequence of any act or acts of the permittee on work done under the trenching permit.

VII. FOR SEWER CONNECTION INFORMATION ONLY

To receive a response via e-mail, provide email address below and check box here:

Residential: No. of Proposed Units _____ (Provide breakdown below)

_____ Studios _____ 1 Bedroom _____ 2 Bedrooms _____ 3 Bedrooms _____ 4 Bedrooms _____ Other

Non-Residential: (See attached sewer table for required category and quantity and provide any additional information in the remarks)

CATEGORY(IES)	QUANTITY(IES)	NEW WATER METER SIZE(S)
_____	_____	_____
_____	_____	_____
_____	_____	_____

Date of Connection: _____ (approximate) Connection Work Desired: Use Existing Lateral Other

Dimensions: _____ ft. _____ in. _____ ft.
length size depth

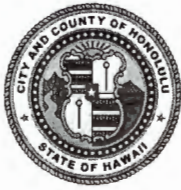
Existing Structures/Dwellings on Property: (Provide breakdown below)

TYPE (i.e. Single Family)	QUANTITY(IES)	REMAIN	DEMOLISH
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Remarks: (Provide any additional information on the lines provided) *To receive a response via e-mail, provide email address below and check box here:*

FOR DIVISION USE ONLY:

Date of Application: _____ Received By: _____ Application No.: _____



DEPARTMENT OF PLANNING AND PERMITTING
CITY AND COUNTY OF HONOLULU

650 SOUTH KING STREET * HONOLULU, HAWAII 96813
 Phone: (808) 768-8209 * Fax: (808) 768-4210

SEWER CONNECTION APPLICATION

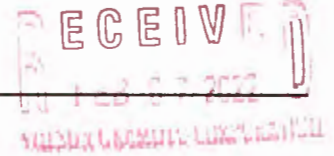
APPLICATION NO.: **2022/SCA-0178**

STATUS: **Approved with conditions**

DATE RECEIVED: **02/01/2022**

IWDP APP. NO.:

PROJECT NAME: **2022/SCA-0178 Oahu Community Correctional Center Phase 2**



LOCATION:

Zone	Section	Plat	Parcel
9	9	010	054

99-941 HALAWA VALLEY ST Aiea 420,877 Sq. Ft.
96701

Zone	Section	Plat	Parcel
9	9	010	046

174,240 Sq. Ft.

Zone	Section	Plat	Parcel
9	9	010	058

99-935 HALAWA VALLEY ST Aiea 409,203 Sq. Ft.
96701

Zone	Section	Plat	Parcel
9	9	010	057

99-951-B HALAWA VALLEY ST Aiea 240,756 Sq. Ft.
96701

Zone	Section	Plat	Parcel
9	9	010	006

5,401,440 Sq. Ft.

SPECIFIC LOCATION: **99-951 HALAWA VALLEY STREET**

APPLICANT: **Wilson Okamoto Corp., Mason Suga**

1907 S. Beretaina St. Suite 400
 Honolulu, Hawaii 96826

DEVELOPMENT TYPE: **Prison**

SEWER CONNECTION WORK DESIRED: **New**

OTHER USES: **Correctional Facility (1380 Beds / 650 Staff)**
Animal Quarantine Station (35 Staff / 143 Kennels / 131 visitors)

NON-RESIDENTIAL AREA: s.f. APPROXIMATE DATE OF CONNECTION:

<u>PROPOSED UNITS</u>	<u>EXISTING UNITS</u>	<u>UNITS TO BE DEMOLISHED</u>
No. of New Units: 0	No. of Existing Units: 0	No. of Units to be Demolished: 0
Studios:	Studios:	Studios:
1-Bedroom:	1-Bedroom:	1-Bedroom:
2-Bedroom:	2-Bedroom:	2-Bedroom:
3-Bedroom:	3-Bedroom:	3-Bedroom:
4-Bedroom:	4-Bedroom:	4-Bedroom:
5-Bedroom:	5-Bedroom:	5-Bedroom:
6-Bedroom:	6-Bedroom:	6-Bedroom:

REMARKS **Approval is for additional flow of 7,274.40 gallons per day (25.98 ESDUs) to the SMH 627437 and additional flow of 292,250.00 gallons per day (1,043.75 ESDUs) to the SMH 627429. Submit construction plans for review and approval.**

APPROVAL DATE: **02/02/2022**

Valid 2-years after approval date. Construction plans shall be completed and approved within this 2-year period. Construction shall commence within 1-year after approval of plans.

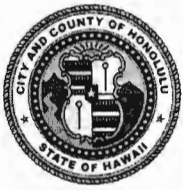
EXPIRATION DATE: **02/02/2024**

** Applicable WSFC shall be collected at the prevailing rate in accordance with ROH 1990, Chapter 14, Sections 14-10.3, 14-10.4, 14-10.5 and Appendix 14-D.*

REVIEWED BY: **Jing Meng**

ExternalID: **098552578-001**

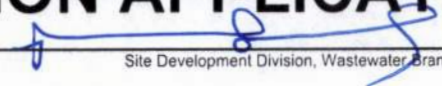
JobId: **98552578**



DEPARTMENT OF PLANNING AND PERMITTING
CITY AND COUNTY OF HONOLULU

650 SOUTH KING STREET * HONOLULU, HAWAII 96813
Phone: (808) 768-8209 * Fax: (808) 768-4210

SEWER CONNECTION APPLICATION


Site Development Division, Wastewater Branch

ELECTRICAL AND TELECOMMUNICATIONS UTILITY SYSTEMS

prepared for

AHL

733 Bishop Street, Suite 3100

Honolulu, Hawaii 96813

prepared by

MNA Environmental

99-1046 Iwaena Street, Suite 210A

Aiea, Hawaii 96701

Electrical and Telecommunications Utility Systems

Background

The scope of work for the electrical and telecommunications utility systems involves the off-site commercial electrical utility systems and potential modifications required to support the proposed relocation of the Department of Agriculture, Animal Quarantine Station which is currently located at the proposed site for the new Oahu Community Correctional Center (OCCC). Electrical utility systems include but are not limited to electrical (power) and telecommunications (telephone, cable television and internet) utilities.

The utility companies are typically responsible for the construction of overhead utility pole lines (poles, overhead conductors, pole-mounted transformers, etc.), underground distribution cables and pad-mounted equipment. The project will be responsible for the underground utility infrastructure (ductlines, handholes/manholes, and equipment pads).

Electrical (Power) System

Electrical (power) service to customers in the project area is provided by the Hawaiian Electric Company (HECo) and distributed overhead on joint use utility poles. All existing joint use poles are located within road right-of-ways or utility easements.

HECo overhead facilities run along Halawa Valley Street and consist of sub-transmission (46 kV), distribution (12 kV) and secondary lines. Pole mounted transformers are provided to step the 12 kV distribution voltage down to utilization voltages. The joint use poles also support the overhead secondary circuits which distribute secondary power from the pole mounted transformers. Many customers are served from these pole mounted transformers. For larger customers, including the Department of Agriculture Animal Industry Division building and Department of Health facility, a primary 12 kV feeder is extended underground to the property for use with a HECo pad-mounted transformer.

The 46 kV sub-transmission lines terminate at the HECo Halawa substation, located along Halawa Valley Street, west of the H-3 Freeway. There are two 12 kV circuits along the Halawa Valley Street poleline. These 12 kV circuits riser down to where the H-3 Freeway crosses Halawa Valley Street and are routed underground. The 12 kV circuits then continue overhead on joint use poles, along Halawa Valley Street, east of the H-3 Freeway.

The current AQS facility is served by a three-phase pole mounted transformer bank, located at the corner of Halawa Valley Street and the access road to the AQS. Secondary conductors are routed down a riser pole to HECO metering equipment, also located at the corner of Halawa Valley Street and the AQS access road, to serve the AQS. HECO Meter #569567 is assigned to the AQS. HECO records indicate that the peak measured electrical demand for Meter #569567 over the past 12 months, was recorded in October 2021, at 41.8 kilowatts (46.4 kVA at 0.9 power factor).

Secondary conductors are then routed on a second pole riser and run overhead on joint utility poles aligned parallel to the AQS access road. These overhead secondary conductors also serve the necropsy building and sewage pretreatment facility. The secondary cables are then routed underground, east of the H-3 Freeway, to the AQS.

Proposed Electrical (Power) Improvements

HECO has indicated that the existing HECO distribution circuit along Halawa Valley Road has sufficient capacity to support the planning level demand load identified in ECS, Inc.'s, November 1, 2021 request for information letter to HECO. Refer to Appendix A for copies of HECO correspondence.

HECO will perform a detailed evaluation of existing distribution circuit capacity when a formal service request for the facility is submitted to HECO during the design phase. An estimated planning level demand load of 270 kVA was indicated in ECS, Inc.'s, November 1, 2021 request for information letter. The 270 kVA demand load was based on construction of a 7,000 square foot maintenance facility/caretaker residence; 10,000 square foot administration/veterinary/indoor kennel building; and outdoor kennel space.

New underground infrastructure, consisting of ductlines, manholes and/or handholes, will be provided from the existing HECO 12 kV overhead circuits along Halawa Valley Street to the proposed, new AQS site. The underground infrastructure will extend from a riser pole along Halawa Valley Street to a new HECO pad mounted transformer on the proposed AQS site, to support the project loads associated with the various buildings/facilities proposed for the new AQS. HECO may also require a pad-mounted primary switch to provide the capability to transfer the preferred HECO 12 kV circuit serving the AQS to an alternate circuit.

The proposed underground infrastructure for the AQS will be entirely separate, and along a different alignment, from the underground infrastructure for the proposed OCCC facility. Based on the magnitude of the anticipated demand load for the proposed OCCC, separate underground distribution systems and pad mounted transformers are recommended for the new AQS and OCCC facilities. A preliminary location for the AQS transformer and primary switch is identified in Figure E1 and will be refined as coordination with HECO continues during the design phase.

Modifications to the 12 kV and 46 kV joint use polelines, including the poles, overhead conductors, guys and other apparatus will be the responsibility of HECO. Pad mounted switches, pad mounted transformers and underground primary cables will also be provided by HECO. The State will be responsible to provide all ductlines, handholes/manholes and secondary conductors.

Telecommunications Utility Systems

Telephone, cable television and related telecommunications services are provided to customers in the project area by Hawaiian Telcom (HT) and Spectrum. Customers have the option to contract with HT, Spectrum or both for their telecommunications services. Both HT and Spectrum are capable of providing voice, internet and other telecommunications services to their customers. It is anticipated that the proposed AQS facility will utilize telephone (voice) service by HT and fiber (data)/coaxial (cable television) service by Spectrum.

The existing HT and Spectrum telecommunications cables are generally run overhead and follow the path of the HECO overhead conductors along Halawa Valley Street. The HT overhead distribution system consists of a combination of fiber optic and copper cables along the Halawa Valley Street joint pole line, and the Spectrum overhead distribution system consists of fiber optic and coaxial cables.

The existing customers within the project area utilize a combination of overhead and underground services from HT and Spectrum. Telecommunications services to the current AQS facility are routed along the same joint use pole line as the secondary conductors serving the AQS. The HT and Spectrum cables are then routed underground, east of the H-3 Freeway, along the existing access road to the current AQS facility.

Proposed Telecommunications Utility Improvements

Both HT and Spectrum have indicated that existing HT and Spectrum facilities in the area should be adequate to support the relocated AQS facility. However HT and Spectrum will perform a more detailed review after specific telecommunications utility service requirements for the AQS facility are established during the design phase. Refer to Appendices B and C for copies of correspondence with HT and Spectrum respectively.

New underground infrastructure, consisting of ductlines, manholes and/or handholes, will be extended from the existing joint use poleline along Halawa Valley Street, in a similar alignment as the new HECO infrastructure, to support telecommunications services for the new AQS facility. Spectrum has indicated that an alternate service connection point to their existing facilities can be along the existing overhead distribution system along the AQS Access Road. The Spectrum service connection point should be evaluated during the design phase after the specific telecommunications service requirements for each building and tenant are identified. Modifications to the joint use polelines, including the poles, overhead conductors, guys and

other apparatus will be the responsibility of HT and Spectrum. The State will be responsible to provide all ductlines and handholes/manholes.

APPENDIX A
Hawaiian Electric Co. Correspondence

Electrical and Telecommunications Utility Systems

Michele Adolpho

From: Shimono, Eric <eric.shimono@hawaiianelectric.com>
Sent: Monday, April 25, 2022 12:37 PM
To: Michele Adolpho
Subject: RE: Animal Quarantine Station Relocation - HECO Planning, Pre-Request Application

Follow Up Flag: Follow up
Flag Status: Completed

Hi Michele,

Sorry but I thought I had previously responded to this. The proposed load can be fed from the existing circuit along Halawa Valley Road.

Please let me know if you have any questions.

Thanks

Eric

From: Michele Adolpho <MAadolpho@ecshawaii.com>
Sent: Thursday, April 14, 2022 3:47 PM
To: Shimono, Eric <eric.shimono@hawaiianelectric.com>
Subject: RE: Animal Quarantine Station Relocation - HECO Planning, Pre-Request Application

Hi Eric,

Following up on the questions/request below.

Thanks,
Michele

From: Michele Adolpho
Sent: Tuesday, December 28, 2021 9:52 AM
To: Shimono, Eric <eric.shimono@hawaiianelectric.com>
Subject: RE: Animal Quarantine Station Relocation - HECO Planning, Pre-Request Application

Eric,

That is correct. We are estimating 270 kVA for the entire relocated AQS.

FYI – the OCCC facility is still planned for the current AQS site, so I'm not sure whether HECO is taking the future OCCC demand into your planning loads as well.

Do you happen to have information on the current loads for the AQS?

Thanks,
Michele

From: Shimono, Eric <eric.shimono@hawaiianelectric.com>
Sent: Tuesday, December 28, 2021 8:27 AM
To: Michele Adolpho <MAadolpho@ecshawaii.com>
Subject: Animal Quarantine Station Relocation - HECO Planning, Pre-Request Application

Hi Michele,

Can you confirm that the entire relocated facility load will be 270 kva?

Thanks

Eric



Consulting
Electrical
Engineers

ECS, Inc.

November 1, 2021

Hawaiian Electric
Customer Installation
820 Ward Avenue
Honolulu, Hawaii 96814

Project: Animal Quarantine Station Relocation
Proposed Replacement of the Oahu Community Correctional Center
(ECS No. 014.142)

Subject: HECO Infrastructure and Facility Planning

ECS, Inc. is part of the project team tasked with planning for the relocation and replacement of the existing Oahu Community Correctional Center (OCCC) to the current site of the Hawaii Department of Agriculture's Animal Quarantine Station (AQS) site in Halawa. This planning effort is being undertaken on behalf of the Hawaii Department of Public Safety (PSD) and Department of Accounting and General Services (DAGS).

The project also involves planning to support the relocation of the existing AQS to a new location, in the same general area of the existing AQS but to the west of the H-3 Freeway. Conceptual plans for the demolition of the existing AQS facility and the proposed AQS facility are attached for your reference.

The proposed AQS facility will include a 7,700 sf maintenance facility/caretaker residence; 10,000 sf administration/veterinary/indoor kennel building; and outdoor kennel space. The estimated planning level load for the facility is approximately 270 kVA.

We are requesting Hawaiian Electric assistance to confirm existing Hawaiian Electric facilities in the vicinity of the proposed AQS project site; likely service connection point(s); available system capacity; and to identify potential upgrades to Hawaiian Electric facilities in support of the development.

Feel free to contact me should you have questions or require additional information.

Regards,

Michele Adolpho, P.E.
Project Engineer

Enclosures

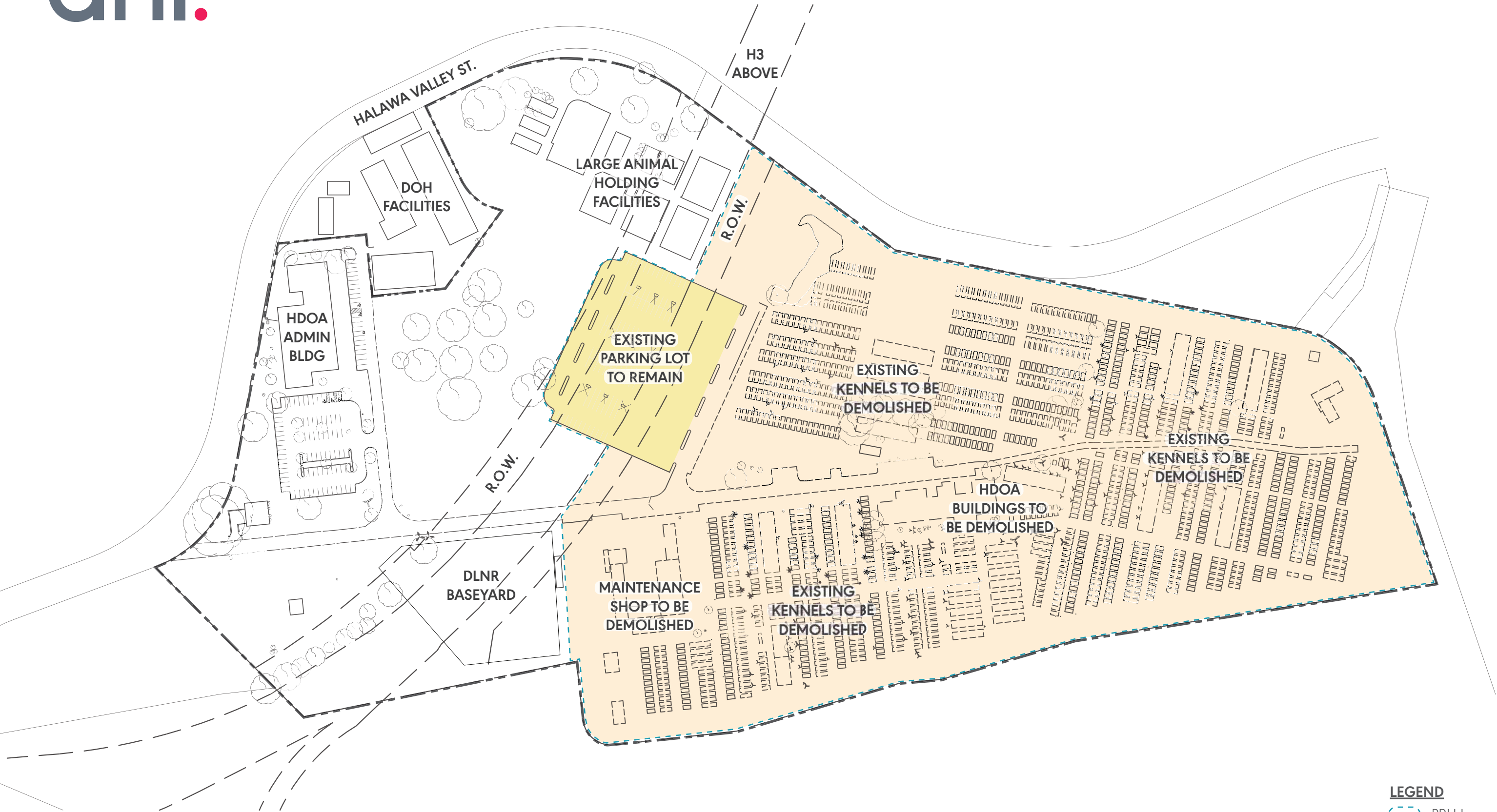





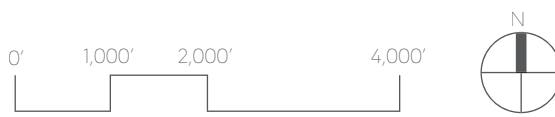


Figure 9:
DEMOLITION PLAN
ANIMAL QUARANTINE STATION SITE

- LEGEND**
-  PRU boundary
 -  Property line
 -  Existing parking lot
 -  Demolition area
 -  Structures to be demolished



CONSOLIDATED AID SITE PLAN

DESIGN PARAMETERS

- VEHICULAR ACCESS TO AQS FROM THE EXISTING HALAWA VALLEY ROAD ENTRY
- PEDESTRIAN ACCESS FROM PUBLIC PARKING LOT IN CLOSE PROXIMITY TO AQS
- VISITOR PARKING AT PUBLIC PARKING LOT
- VET/DISPENSARY PROXIMITY TO AID
- CONSOLIDATION OF QAC SUPPORT FACILITIES WITH SEPARATE SERVICE DRIVE
- EMPLOYEE PARKING IN CLOSE PROXIMITY TO AQS (14 STALLS: 10-STND, 2-VANS & 2-ADA)
- PSD SHERIFF UNIT IN CLOSE PROXIMITY TO AQS WITH SEPARATE INGRESS / EGRESS
- MAINTENANCE BLDG. AND CARETAKER IN CLOSE PROXIMITY TO AQS
- SECURED PERIMETER
- VEHICULAR ACCESS TO AQS TENANTS FROM THE EXISTING HALAWA VALLEY ROAD ENTRY
- NEW INDEPENDENT ONE WAY DRIVE-THROUGH FOR TRAILERS TO LARGE ANIMAL HOLDING FROM HALAWA VALLEY RD. SECURED AND GATED LOADING & UNLOADING ZONE.
- ANIMAL HOUSING:
DOGS: 8-CLUSTERS (72-KENNELS)
CATS: 3-CLUSTERS (36-KENNELS)

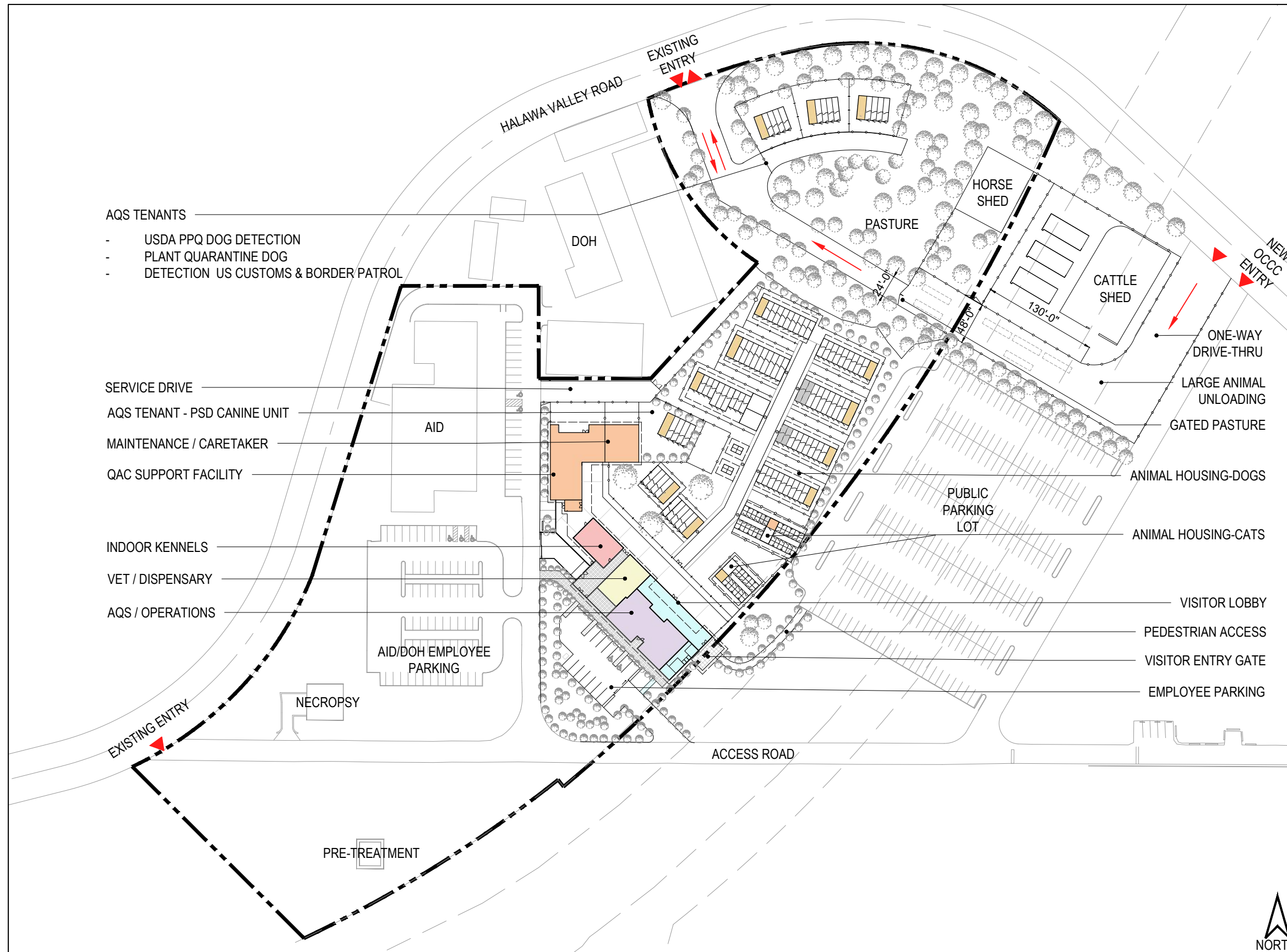





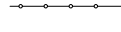

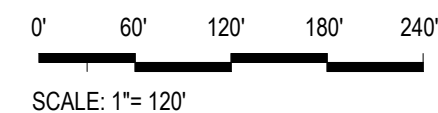


FIGURE 7.2

LEGEND

-  AQS OFFICE
-  VET/DISPENSARY
-  QAC SUPP FAC
-  INDOOR KENNELS
-  PUBLIC
-  FENCE
-  PROPERTY LINE



ANIMAL QUARANTINE STATION CONCEPTUAL SITE PLAN

DESIGN CONSIDERATION

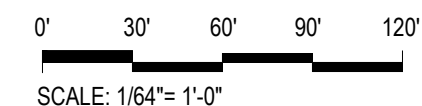
- PEDESTRIAN ADA RAMP FROM PUBLIC PARKING; SECURE VISITOR ENTRY TO AQS
- AQS EMPLOYEE PARKING (10-STND, 2-VANS & 2-ADA)
- SEPARATE ENTRIES FOR STAFF & QAC PERSONNEL
- SECURE QAC / PET BREEZEWAY
- SECURE VAN PARKING AND PET DROP-OFF
- SEPARATE PET RELEASE VESTIBULE & VISITOR PARKING
- SEPARATION OF PUBLIC AREAS FROM STAFF AREAS
- CONSOLIDATION OF QAC CENTRAL SUPPORT; MAINTENANCE BLDG. & CARETAKER, EACH WITH A SEPARATE SECURE PERIMETER
- PSD CANINE UNIT IN CLOSE PROXIMITY TO AQS; SEPARATE ACCESS AND SECURE PERIMETER
- PERIMETER ENCLOSURE AT EACH CLUSTER; QAC SUPPORT AT EACH CLUSTER
- DOGS: 8-CLUSTERS (72-KENNELS)
 - GEN. POPULATION: 4-MEDIUM (34 + 2-ADA KENNELS)
 - GEN. POPULATION: 2-LARGE (16 + 2-ADA KENNELS)
 - NEW ARRIVAL: 3-LARGE + 6 MEDIUM (9-KENNELS)
 - ISOLATION BEHAVIORAL: 1-LARGE (4-KENNELS)
 - ISOLATION CONTAGIOUS: 1-LARGE (5-KENNELS)
- CATS: 2-CLUSTERS (36-KENNELS)
 - GEN. POPULATION: 1-CLUSTER (21+ 3-ADA KENNELS)
 - ISOLATION CONTAGIOUS: 1-CLUSTER (12-KENNELS)

FIGURE 7.3



LEGEND

- AQS OFFICE
- VET/DISPENSARY
- QAC SUPP FAC
- INDOOR KENNELS
- PUBLIC
- FENCE
- PROPERTY LINE



ANIMAL QUARANTINE STATION CONCEPTUAL FLOOR PLAN

DESIGN HIGHLIGHTS:

PUBLIC/VISITOR:

- SECURE VISITOR ENTRY IN CLOSE PROXIMITY TO PUBLIC PARKING
- DIRECT VISITOR ACCESS TO SERVICE WINDOWS AT AQS, OPS & DISPENSARY
- SEPARATION OF PUBLIC AREAS FROM EMPLOYEE AREAS

AQS:

- ENTRANCE NEAR EMPLOYEE PARKING
- SEPARATE ENTRANCE FOR AQS STAFF
- ADJACENCY OF AQS / OPERATIONS & VET/DISPENSARY
- CENTRAL RECORDS ACCESSIBLE TO AQS, OPS AND VETS/DISPENSARY
- CENTRAL SUPPORT AREAS: COPY ROOM, COMM ROOM., STAFF TOILETS, MEETING ROOM
- CENTRAL INDOOR & COVERED LANAI BREAKROOM, ACCESSIBLE TO ALL EMPLOYEES

VET/DISPENSARY:

- ICU HOLDING OFF OF EXAM ROOM
- ENTRY/EXIT DOORS TO QAC/PET CIRCULATION BREEZEWAY
- VETS NEAR INDOOR KENNELS

INTAKE DROP-OFF & PET RELEASE:

- PROXIMITY TO VET/DISPENSARY
- INTAKE OFF-OF QAC/PET CIRCULATION BREEZEWAY
- SEPARATE PET RELEASE VESTIBULE / VISITOR PARKING STALL

INDOOR KENNELS:

- SEPARATE CAT SUITE & DOG SUITE WITH SEPARATE ENTRY/EXIT DOORS
- ACCESSIBLE TO VET/DISPENSARY AND QACs






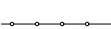

QAC SUPPORT

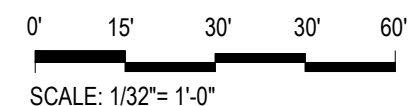
- SEPARATION OF SERVICE DRIVE FROM AQS ADMINISTRATION
- CONSOLIDATION OF QAC SUPPORT WITH MAINT. & CARETAKER



FIGURE 7.4

LEGEND

-  AQS OFFICE
-  VET/DISPENSARY
-  QAC SUPP FAC
-  INDOOR KENNELS
-  PUBLIC
-  FENCE
-  PROPERTY LINE



APPENDIX B
Hawaiian Telcom Correspondence

Electrical and Telecommunications Utility Systems

Michele Adolpho

From: Justin Medeiros <justin.medeiros@hawaiiantel.com>
Sent: Monday, May 16, 2022 9:44 AM
To: Michele Adolpho
Cc: Greg Kawachi; HT-Plan Reviews; Remigio Vidad; Paul Hanohano
Subject: RE: Animal Quarantine Station Relocation - Hawaiian Telcom Planning Request

Follow Up Flag: Follow up
Flag Status: Completed

Michele,

Thank you for the information, the existing poles that are currently providing service to AQS come from Halawa Valley Road into the property along the AQS main access road. These would most likely be the best option for providing service to the new buildings. According to the plans there are multiple new buildings which could require service, the current infrastructure should be able to accommodate the additional buildings, but that will need to be checked once the service requirements are established to be sure. The AQS Tenants located in the north of the print may need to obtain service from a connection point closer to them, possibly directly from Halawa Valley Road, as the current poles/ underground conduits do not reach that part of the property according to our records.

Thank you,

Justin Medeiros
Network OSP Engineer
Hawaiian Telcom
C: 808.888.1509
Email: justin.medeiros@hawaiiantel.com



From: Michele Adolpho <MAadolpho@ecshawaii.com>
Sent: Tuesday, May 10, 2022 5:22 PM
To: Justin Medeiros <justin.medeiros@hawaiiantel.com>
Cc: Greg Kawachi <Greg.Kawachi@hawaiiantel.com>; HT-Plan Reviews <HT-PlanReviews@hawaiiantel.com>; Remigio Vidad <Remigio.Vidad@hawaiiantel.com>; Paul Hanohano <Paul.Hanohano@hawaiiantel.com>
Subject: RE: Animal Quarantine Station Relocation - Hawaiian Telcom Planning Request

Justin,

The new Oahu Community Correctional Center (OCCC) is planned for the existing AQS site. This is the reason for relocating the AQS to the proposed, new location. Attached is past correspondence with HT back in 2017 regarding HT capacity for the new OCCC.

There are no firm service requirements for the new AQS buildings at this time. Right now, we are primarily interested in confirming whether there are adequate Hawaiian Telcom facilities to support the AQS relocation. We do not intend to modify the existing poleline and underground conduits serving the existing buildings on the west side of H3 unless necessary.

Would you be able to provide input on the following?

- Adequacy of existing Hawaiian Telcom facilities to support the new AQS.
- Likely service connection point to Hawaiian Telcom facilities. Would that be the existing overhead poleline serving the existing buildings on the west side of H3 or directly from the Halawa Valley Road poleline?

Thanks,
Michele

Michele Adolpho, P.E.



ECS, Inc.
615 Piikoi Street, Suite 207
Honolulu, Hawaii 96814
(808) 591-8181 Fax: (808) 591-9098

From: Justin Medeiros <justin.medeiros@hawaiiantel.com>
Sent: Monday, May 2, 2022 3:39 PM
To: Michele Adolpho <MAadolpho@ecshawaii.com>
Cc: Greg Kawachi <Greg.Kawachi@hawaiiantel.com>; HT-Plan Reviews <HT-PlanReviews@hawaiiantel.com>; Remigio Vidad <Remigio.Vidad@hawaiiantel.com>; Paul Hanohano <Paul.Hanohano@hawaiiantel.com>
Subject: RE: Animal Quarantine Station Relocation - Hawaiian Telcom Planning Request

Hi Michele,

I have reviewed the preliminary document you provided. For the portion of the current AQS site located on the east side of H3 to be demolished, we do have underground facilities running to multiple locations. I understand that all of the buildings and kennels will be demolished, but what are the plans for the underground infrastructure located there? Please contact us as the demolition plans develop.

Also, what will the service requirements be for the proposed new AQS buildings on the west side of H3? We currently have a pole line and underground conduits there which serve the existing buildings. Please provide us with more information as it develops.

Thank you,

Justin Medeiros
Network OSP Engineer
Hawaiian Telcom
C: 808.888.1509
Email: justin.medeiros@hawaiiantel.com



Michele Adolpho

From: Justin Medeiros <justin.medeiros@hawaiiantel.com>
Sent: Monday, May 2, 2022 3:39 PM
To: Michele Adolpho
Cc: Greg Kawachi; HT-Plan Reviews; Remigio Vidad; Paul Hanohano
Subject: RE: Animal Quarantine Station Relocation - Hawaiian Telcom Planning Request

Follow Up Flag: Follow up
Flag Status: Completed

Hi Michele,

I have reviewed the preliminary document you provided. For the portion of the current AQS site located on the east side of H3 to be demolished, we do have underground facilities running to multiple locations. I understand that all of the buildings and kennels will be demolished, but what are the plans for the underground infrastructure located there? Please contact us as the demolition plans develop.

Also, what will the service requirements be for the proposed new AQS buildings on the west side of H3? We currently have a pole line and underground conduits there which serve the existing buildings. Please provide us with more information as it develops.

Thank you,

Justin Medeiros
Network OSP Engineer
Hawaiian Telcom
C: 808.888.1509
Email: justin.medeiros@hawaiiantel.com



From: Paul Hanohano <Paul.Hanohano@hawaiiantel.com>
Sent: Friday, April 15, 2022 6:13 AM
To: Michele Adolpho <MAadolpho@ecshawaii.com>; Justin Medeiros <justin.medeiros@hawaiiantel.com>
Cc: Greg Kawachi <Greg.Kawachi@hawaiiantel.com>; HT-Plan Reviews <HT-PlanReviews@hawaiiantel.com>; Remigio Vidad <Remigio.Vidad@hawaiiantel.com>
Subject: RE: Animal Quarantine Station Relocation - Hawaiian Telcom Planning Request

Justin,
Could you take a look at this.
Thanks,

Paul Hanohano
Network Engineering
(808)546-4744



From: Michele Adolpho <MAadolpho@ecshawaii.com>
Sent: Thursday, April 14, 2022 4:57 PM
To: Paul Hanohano <Paul.Hanohano@hawaiiantel.com>
Cc: Greg Kawachi <Greg.Kawachi@hawaiiantel.com>; HT-Plan Reviews <HT-PlanReviews@hawaiiantel.com>
Subject: Animal Quarantine Station Relocation - Hawaiian Telcom Planning Request

Hi Paul,

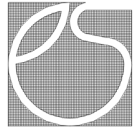
I'm following up on any preliminary planning input you can provide for the project. Resending the project information for your reference as well.

Thanks,
Michele

Michele Adolpho, P.E.



ECS, Inc.
615 Piikoi Street, Suite 207
Honolulu, Hawaii 96814
(808) 591-8181 Fax: (808) 591-9098



Consulting
Electrical
Engineers

ECS, Inc.

November 1, 2021

Hawaiian Telcom
Network Planning
P.O. Box 2200
Honolulu, Hawaii 96841
Attn: Mr. Greg Kawachi

Project: Animal Quarantine Station Relocation
Proposed Replacement of the Oahu Community Correctional Center
(ECS No. 014.142)

Subject: Hawaiian Telcom Infrastructure and Facility Planning

Dear Mr. Kawachi:

ECS, Inc. is part of the project team tasked with planning for the relocation and replacement of the existing Oahu Community Correctional Center (OCCC) to the current site of the Hawaii Department of Agriculture's Animal Quarantine Station (AQS) site in Halawa. This planning effort is being undertaken on behalf of the Hawaii Department of Public Safety (PSD) and Department of Accounting and General Services (DAGS).

The project also involves planning to support the relocation of the existing AQS to a new location, in the same general area of the existing AQS but to the west of the H-3 Freeway. Conceptual plans for the demolition of the existing AQS facility and the proposed new AQS facility are attached for your reference. The proposed AQS facility will include a 7,700 sf maintenance facility/caretaker residence; 10,000 sf administration/veterinary/indoor kennel building; and outdoor kennel space.

We are requesting assistance to confirm existing Hawaiian Telcom facilities in the vicinity of the proposed AQS project site; likely service connection point(s); available system capacity; and to identify potential upgrades to Hawaiian Telcom facilities in support of the development.

Feel free to contact me should you have questions or require additional information.

Regards,

Michele Adolpho, P.E.
Project Engineer

Enclosures

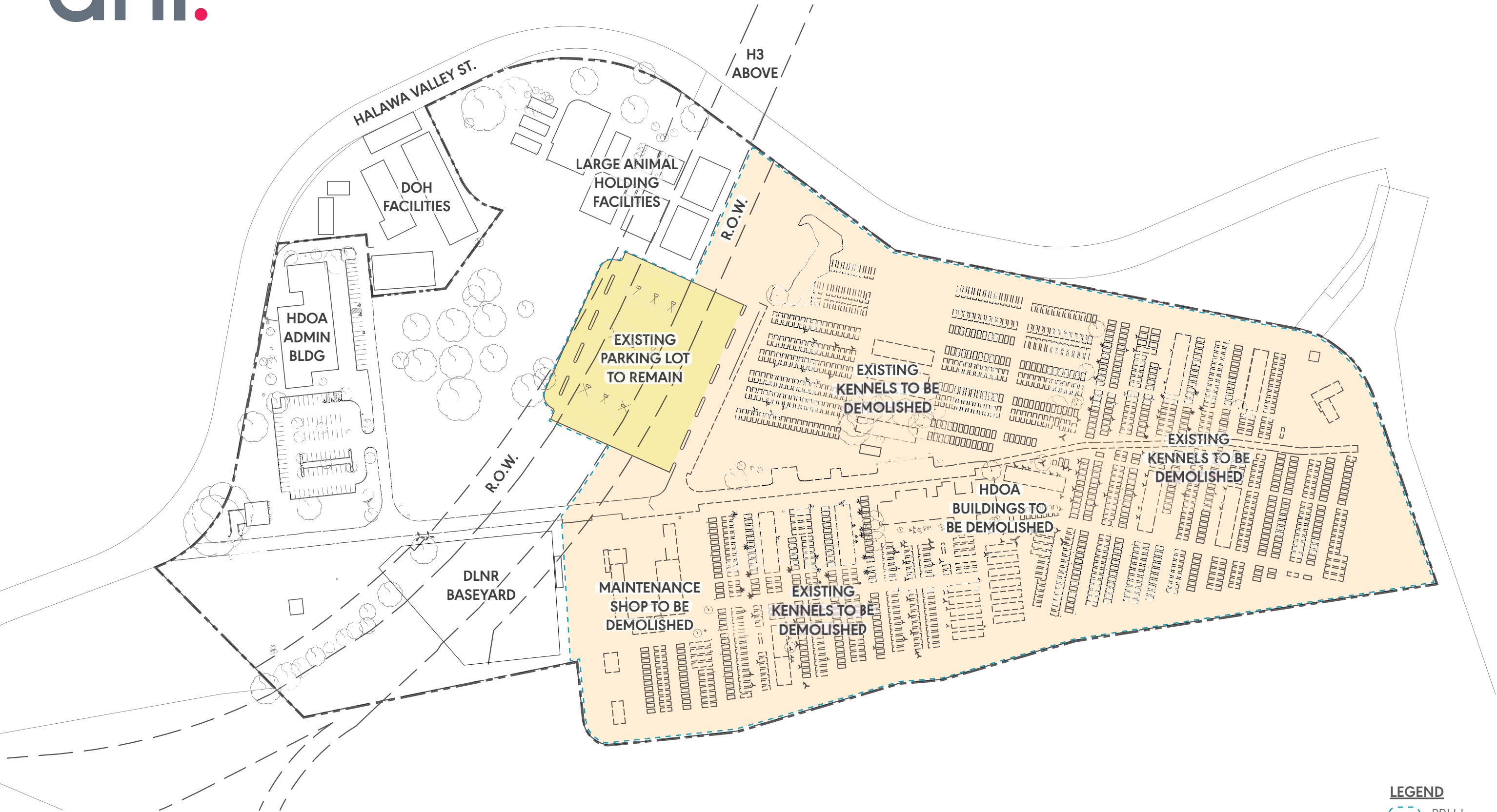







Figure 9:
DEMOLITION PLAN
ANIMAL QUARANTINE STATION SITE

- LEGEND**
-  PRU boundary
 -  Property line
 -  Existing parking lot
 -  Demolition area
 -  Structures to be demolished

CONSOLIDATED AID SITE PLAN

DESIGN PARAMETERS

- VEHICULAR ACCESS TO AQS FROM THE EXISTING HALAWA VALLEY ROAD ENTRY
- PEDESTRIAN ACCESS FROM PUBLIC PARKING LOT IN CLOSE PROXIMITY TO AQS
- VISITOR PARKING AT PUBLIC PARKING LOT
- VET/DISPENSARY PROXIMITY TO AID
- CONSOLIDATION OF QAC SUPPORT FACILITIES WITH SEPARATE SERVICE DRIVE
- EMPLOYEE PARKING IN CLOSE PROXIMITY TO AQS (14 STALLS: 10-STND, 2-VANS & 2-ADA)
- PSD SHERIFF UNIT IN CLOSE PROXIMITY TO AQS WITH SEPARATE INGRESS / EGRESS
- MAINTENANCE BLDG. AND CARETAKER IN CLOSE PROXIMITY TO AQS
- SECURED PERIMETER
- VEHICULAR ACCESS TO AQS TENANTS FROM THE EXISTING HALAWA VALLEY ROAD ENTRY
- NEW INDEPENDENT ONE WAY DRIVE-THROUGH FOR TRAILERS TO LARGE ANIMAL HOLDING FROM HALAWA VALLEY RD. SECURED AND GATED LOADING & UNLOADING ZONE.
- ANIMAL HOUSING:
DOGS: 8-CLUSTERS (72-KENNELS)
CATS: 3-CLUSTERS (36-KENNELS)

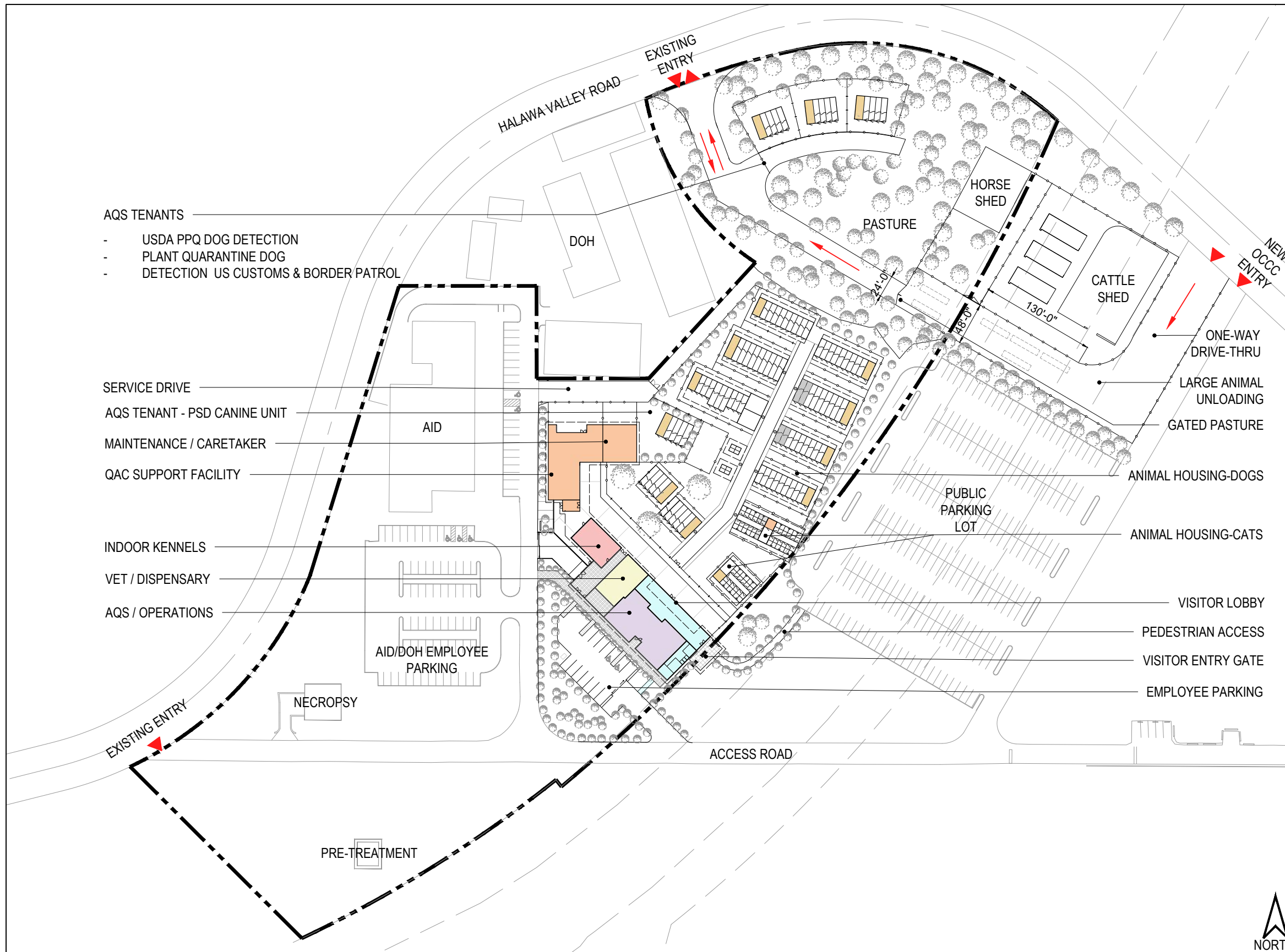





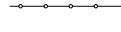

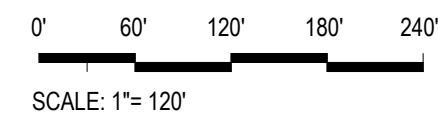


FIGURE 7.2

LEGEND

-  AQS OFFICE
-  VET/DISPENSARY
-  QAC SUPP FAC
-  INDOOR KENNELS
-  PUBLIC
-  FENCE
-  PROPERTY LINE



ANIMAL QUARANTINE STATION CONCEPTUAL SITE PLAN

DESIGN CONSIDERATION

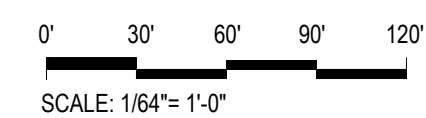
- PEDESTRIAN ADA RAMP FROM PUBLIC PARKING; SECURE VISITOR ENTRY TO AQS
- AQS EMPLOYEE PARKING (10-STND, 2-VANS & 2-ADA)
- SEPARATE ENTRIES FOR STAFF & QAC PERSONNEL
- SECURE QAC / PET BREEZEWAY
- SECURE VAN PARKING AND PET DROP-OFF
- SEPARATE PET RELEASE VESTIBULE & VISITOR PARKING
- SEPARATION OF PUBLIC AREAS FROM STAFF AREAS
- CONSOLIDATION OF QAC CENTRAL SUPPORT; MAINTENANCE BLDG. & CARETAKER, EACH WITH A SEPARATE SECURE PERIMETER
- PSD CANINE UNIT IN CLOSE PROXIMITY TO AQS; SEPARATE ACCESS AND SECURE PERIMETER
- PERIMETER ENCLOSURE AT EACH CLUSTER; QAC SUPPORT AT EACH CLUSTER
- DOGS: 8-CLUSTERS (72-KENNELS)
 - GEN. POPULATION: 4-MEDIUM (34 + 2-ADA KENNELS)
 - GEN. POPULATION: 2-LARGE (16 + 2-ADA KENNELS)
 - NEW ARRIVAL: 3-LARGE + 6 MEDIUM (9-KENNELS)
 - ISOLATION BEHAVIORAL: 1-LARGE (4-KENNELS)
 - ISOLATION CONTAGIOUS: 1-LARGE (5-KENNELS)
- CATS: 2-CLUSTERS (36-KENNELS)
 - GEN. POPULATION: 1-CLUSTER (21+ 3-ADA KENNELS)
 - ISOLATION CONTAGIOUS: 1-CLUSTER (12-KENNELS)

FIGURE 7.3



LEGEND

- AQS OFFICE
- VET/DISPENSARY
- QAC SUPP FAC
- INDOOR KENNELS
- PUBLIC
- FENCE
- PROPERTY LINE



ANIMAL QUARANTINE STATION CONCEPTUAL FLOOR PLAN

DESIGN HIGHLIGHTS:

PUBLIC/VISITOR:

- SECURE VISITOR ENTRY IN CLOSE PROXIMITY TO PUBLIC PARKING
- DIRECT VISITOR ACCESS TO SERVICE WINDOWS AT AQS, OPS & DISPENSARY
- SEPARATION OF PUBLIC AREAS FROM EMPLOYEE AREAS

AQS:

- ENTRANCE NEAR EMPLOYEE PARKING
- SEPARATE ENTRANCE FOR AQS STAFF
- ADJACENCY OF AQS / OPERATIONS & VET/DISPENSARY
- CENTRAL RECORDS ACCESSIBLE TO AQS, OPS AND VETS/DISPENSARY
- CENTRAL SUPPORT AREAS: COPY ROOM, COMM ROOM., STAFF TOILETS, MEETING ROOM
- CENTRAL INDOOR & COVERED LANAI BREAKROOM, ACCESSIBLE TO ALL EMPLOYEES

VET/DISPENSARY:

- ICU HOLDING OFF OF EXAM ROOM
- ENTRY/EXIT DOORS TO QAC/PET CIRCULATION BREEZEWAY
- VETS NEAR INDOOR KENNELS

INTAKE DROP-OFF & PET RELEASE:

- PROXIMITY TO VET/DISPENSARY
- INTAKE OFF-OF QAC/PET CIRCULATION BREEZEWAY
- SEPARATE PET RELEASE VESTIBULE / VISITOR PARKING STALL

INDOOR KENNELS:

- SEPARATE CAT SUITE & DOG SUITE WITH SEPARATE ENTRY/EXIT DOORS
- ACCESSIBLE TO VET/DISPENSARY AND QACs


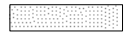



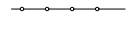

QAC SUPPORT

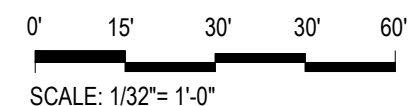
- SEPARATION OF SERVICE DRIVE FROM AQS ADMINISTRATION
- CONSOLIDATION OF QAC SUPPORT WITH MAINT. & CARETAKER



FIGURE 7.4

LEGEND

-  AQS OFFICE
-  VET/DISPENSARY
-  QAC SUPP FAC
-  INDOOR KENNELS
-  PUBLIC
-  FENCE
-  PROPERTY LINE



APPENDIX C
Charter Spectrum Correspondence

Electrical and Telecommunications Utility Systems

Michele Adolpho

From: Nguyen, Tuan <Tuan.Nguyen1@charter.com>
Sent: Wednesday, January 5, 2022 10:15 AM
To: Michele Adolpho
Subject: RE: Animal Quarantine Station Relocation - Spectrum Planning Request

Michele,

We have both active fiber and coax services at the AQR building. The existing coax line east of the AQR building is active but currently no customer active. This line only feeds the AQR property.

Tuan Nguyen



Construction Coordinator | 151 Palii Street | Mililani, HI 96789
PH # 808-625-8378 | tuan.nguyen1@charter.com

From: Michele Adolpho <MAadolpho@ecshawaii.com>
Sent: Wednesday, January 5, 2022 7:05 AM
To: Nguyen, Tuan <Tuan.Nguyen1@charter.com>
Subject: [EXTERNAL] RE: Animal Quarantine Station Relocation - Spectrum Planning Request

CAUTION: The e-mail below is from an external source. Please exercise caution before opening attachments, clicking links, or following guidance.

Tuan,

Thanks for the response. I have a couple of questions:

- Are you able to confirm what is currently being provided to the existing Animal Quarantine Station building (labeled 99951)? Fiber, coax or both?
- There are existing underground facilities that extend east, past the Animal Quarantine Station building. Are there active services that utilize this existing underground infrastructure to the east of the building? I'm just wondering whether this infrastructure will need to be maintained or reconnected if the site is developed.

Michele

From: Nguyen, Tuan <Tuan.Nguyen1@charter.com>
Sent: Tuesday, January 4, 2022 2:37 PM
To: Michele Adolpho <MAadolpho@ecshawaii.com>
Subject: Animal Quarantine Station Relocation - Spectrum Planning Request

Hi Michele,

I will be the POC for this project. Attached is the Spectrum's existing system map in the area. We have sufficient Spectrum facilities in the area to support this development.

Thanks,

Tuan Nguyen



Construction Coordinator | 151 Pali Street | Mililani, HI 96789
PH # 808-625-8378 | tuan.nguyen1@charter.com

Michele Adolpho

From: Nguyen, Tuan <Tuan.Nguyen1@charter.com>
Sent: Tuesday, January 4, 2022 2:37 PM
To: Michele Adolpho
Subject: Animal Quarantine Station Relocation - Spectrum Planning Request
Attachments: Animal Quarantine Station Relo - Spectrum Sys map.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Hi Michele,

I will be the POC for this project. Attached is the Spectrum's existing system map in the area. We have sufficient Spectrum facilities in the area to support this development.

Thanks,

Tuan Nguyen

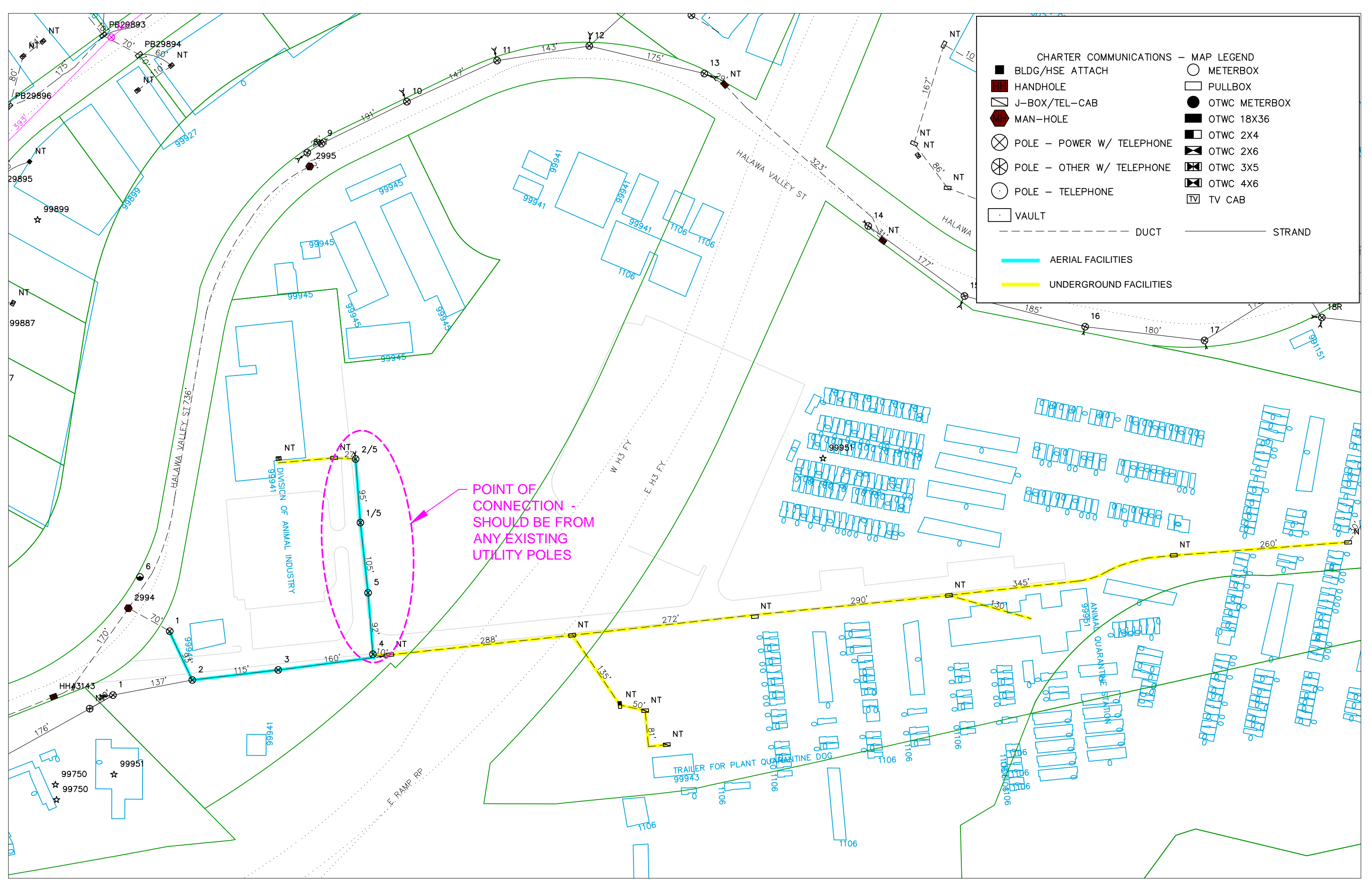


Construction Coordinator | 151 Pali Street | Mililani, HI 96789
PH # 808-625-8378 | tuan.nguyen1@charter.com

CHARTER COMMUNICATIONS - MAP LEGEND

■ BLDG/HSE ATTACH	○ METERBOX
■ HANDHOLE	□ PULLBOX
▭ J-BOX/TEL-CAB	● OTWC METERBOX
■ MAN-HOLE	■ OTWC 18X36
⊗ POLE - POWER W/ TELEPHONE	■ OTWC 2X4
⊗ POLE - OTHER W/ TELEPHONE	▭ OTWC 2X6
○ POLE - TELEPHONE	▭ OTWC 3X5
□ VAULT	▭ OTWC 4X6
	▭ TV CAB

- - - DUCT ——— STRAND
 ——— AERIAL FACILITIES
 ——— UNDERGROUND FACILITIES





Consulting
Electrical
Engineers

ECS, Inc.

November 1, 2021

Charter Spectrum
200 Akamainui Street
Mililani, Hawaii 96789
Attn: Allyson Kaai

Project: Animal Quarantine Station Relocation
Proposed Replacement of the Oahu Community Correctional Center
(ECS No. 014.142)

Subject: Spectrum Infrastructure and Facility Planning

Dear Ms. Kaai:

ECS, Inc. is part of the project team tasked with planning for the relocation and replacement of the existing Oahu Community Correctional Center (OCCC) to the current site of the Hawaii Department of Agriculture's Animal Quarantine Station (AQS) site in Halawa. This planning effort is being undertaken on behalf of the Hawaii Department of Public Safety (PSD) and Department of Accounting and General Services (DAGS).

The project also involves planning to support the relocation of the existing AQS to a new location, in the same general area of the existing AQS but to the west of the H-3 Freeway. Conceptual plans for the demolition of the existing AQS facility and the proposed new AQS facility are attached for your reference. The proposed AQS facility will include a 7,700 sf maintenance facility/caretaker residence; 10,000 sf administration/veterinary/indoor kennel building; and outdoor kennel space.

We are requesting assistance to confirm existing Spectrum facilities in the vicinity of the proposed AQS project site; likely service connection point(s); available system capacity; and to identify potential upgrades to Spectrum facilities in support of the development.

Feel free to contact me should you have questions or require additional information.

Regards,

Michele Adolpho, P.E.
Project Engineer

Enclosures

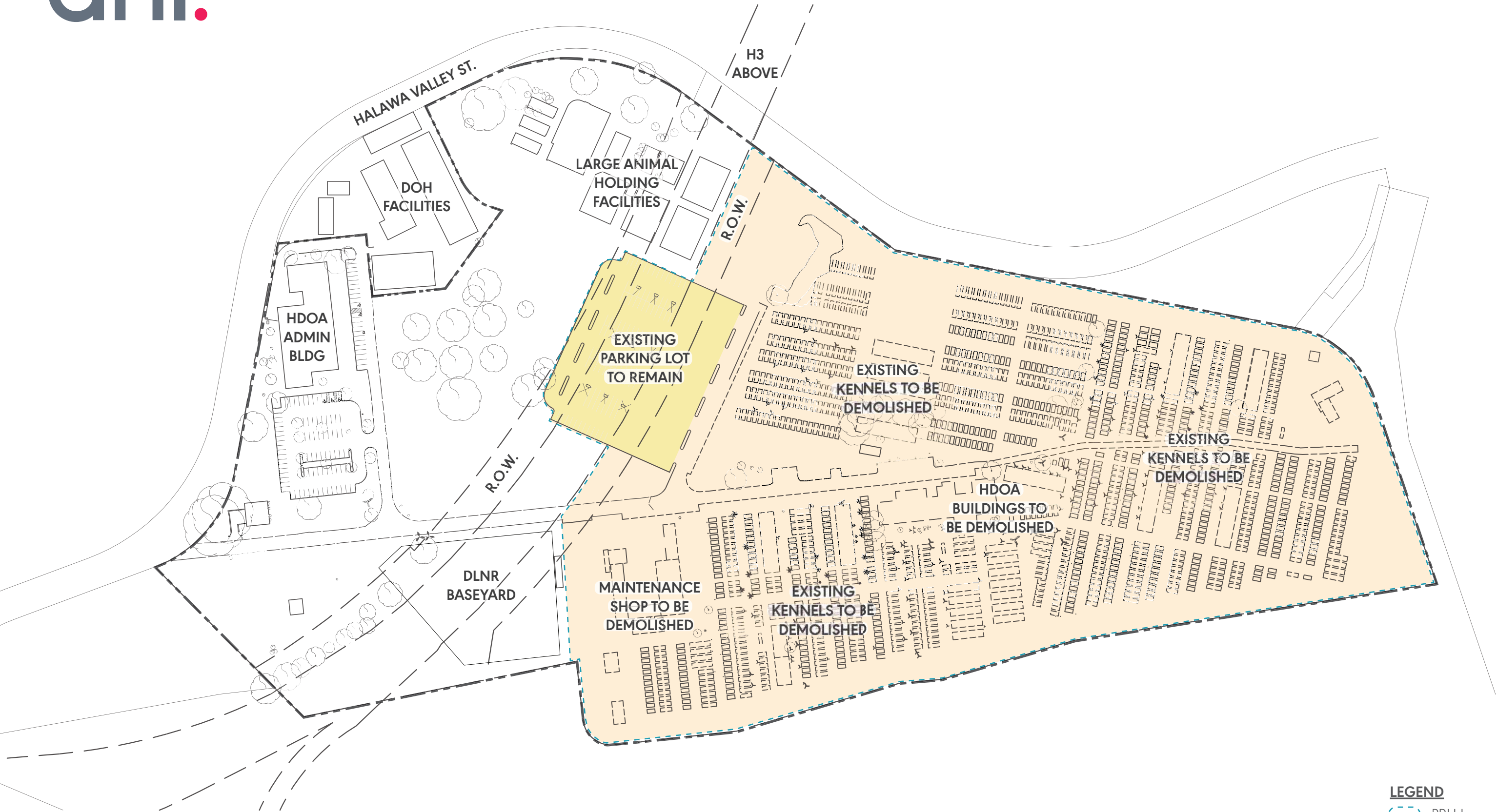







Figure 9:
DEMOLITION PLAN
ANIMAL QUARANTINE STATION SITE

LEGEND

-  PRU boundary
-  Property line
-  Existing parking lot
-  Demolition area
-  Structures to be demolished

CONSOLIDATED AID SITE PLAN

DESIGN PARAMETERS

- VEHICULAR ACCESS TO AQS FROM THE EXISTING HALAWA VALLEY ROAD ENTRY
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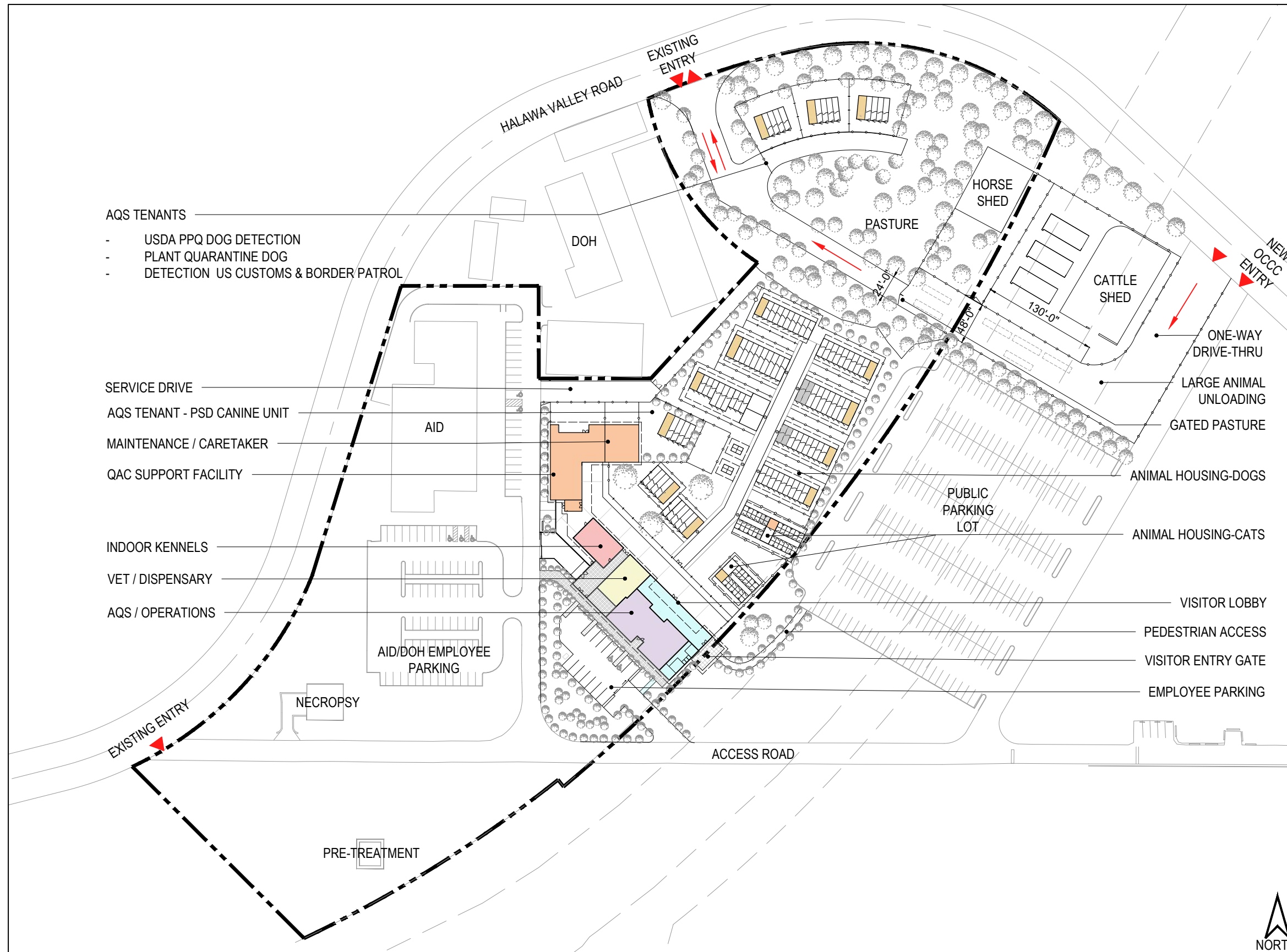
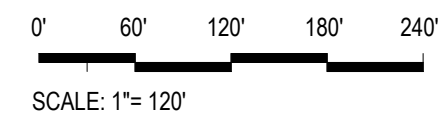


FIGURE 7.2

LEGEND

- ▨ AQS OFFICE
- ▨ VET/DISPENSARY
- ▨ QAC SUPP FAC
- ▨ INDOOR KENNELS
- ▨ PUBLIC
- FENCE
- - - PROPERTY LINE



ANIMAL QUARANTINE STATION CONCEPTUAL SITE PLAN

DESIGN CONSIDERATION

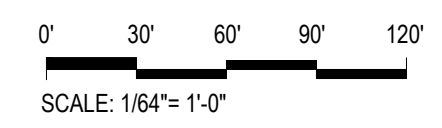
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 - ISOLATION CONTAGIOUS: 1-LARGE (5-KENNELS)
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 - ISOLATION CONTAGIOUS: 1-CLUSTER (12-KENNELS)

FIGURE 7.3



LEGEND

- AQS OFFICE
- VET/DISPENSARY
- QAC SUPP FAC
- INDOOR KENNELS
- PUBLIC
- FENCE
- PROPERTY LINE



ANIMAL QUARANTINE STATION CONCEPTUAL FLOOR PLAN

DESIGN HIGHLIGHTS:

PUBLIC/VISITOR:

- SECURE VISITOR ENTRY IN CLOSE PROXIMITY TO PUBLIC PARKING
- DIRECT VISITOR ACCESS TO SERVICE WINDOWS AT AQS, OPS & DISPENSARY
- SEPARATION OF PUBLIC AREAS FROM EMPLOYEE AREAS

AQS:

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- SEPARATE ENTRANCE FOR AQS STAFF
- ADJACENCY OF AQS / OPERATIONS & VET/DISPENSARY
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- ACCESSIBLE TO VET/DISPENSARY AND QACs






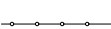

QAC SUPPORT

- SEPARATION OF SERVICE DRIVE FROM AQS ADMINISTRATION
- CONSOLIDATION OF QAC SUPPORT WITH MAINT. & CARETAKER



FIGURE 7.4

LEGEND

-  AQS OFFICE
-  VET/DISPENSARY
-  QAC SUPP FAC
-  INDOOR KENNELS
-  PUBLIC
-  FENCE
-  PROPERTY LINE

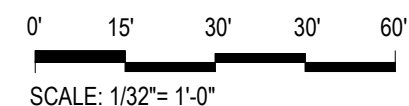
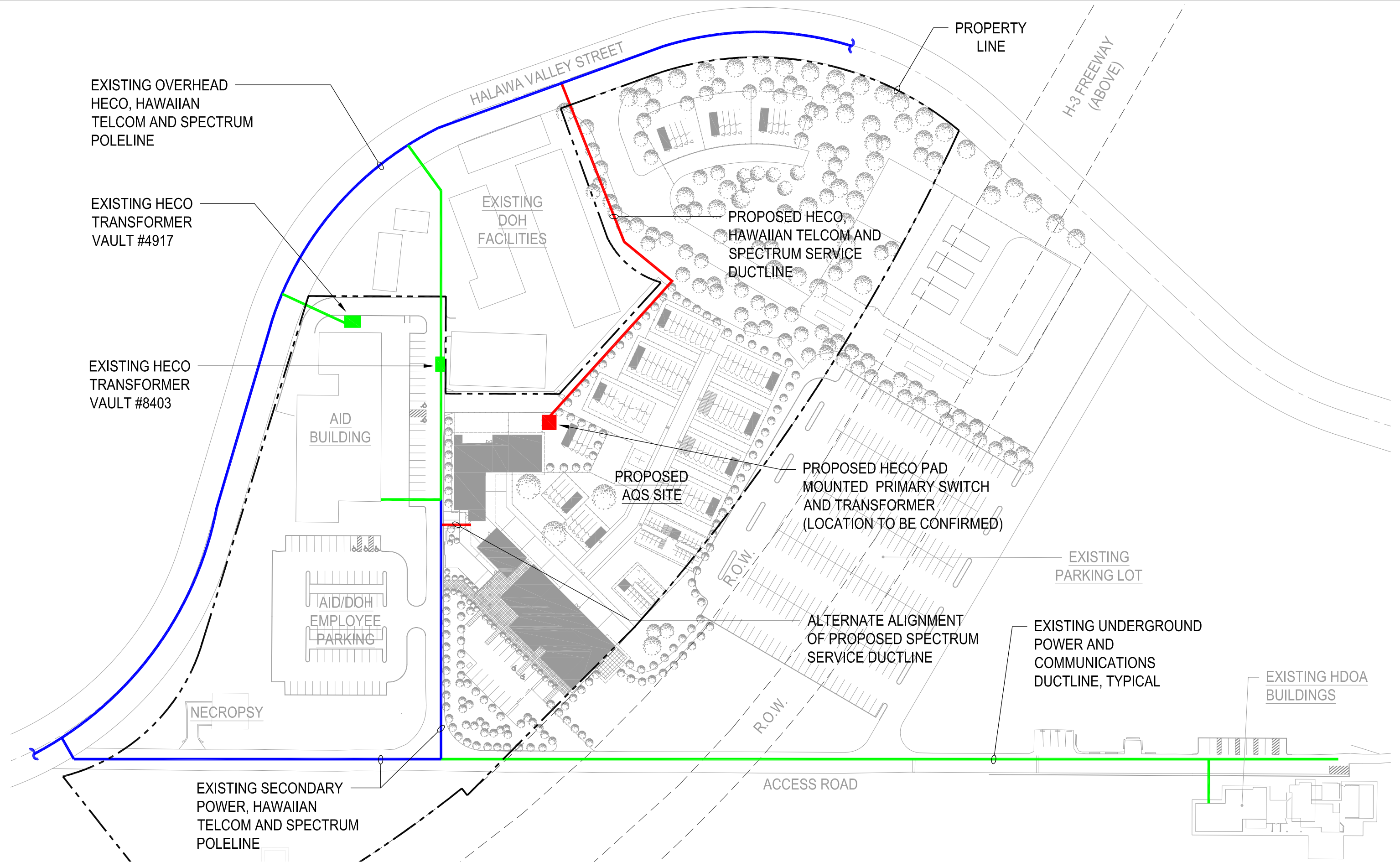


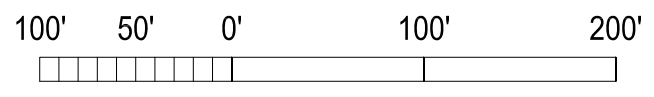
FIGURE E1
Animal Quarantine Station
Conceptual Electrical Utility Site Plan

Electrical and Telecommunications Utility Systems

7/2/22-16:42 Y:\014\014.142\014.142_SKE-1.dwg



ANIMAL QUARANTINE STATION CONCEPTUAL ELECTRICAL UTILITY SITE PLAN
 SCALE: 1" = 100'



DATE:
JUNE 2022

**FIGURE
E1**