

STATE OF HAWAII
DEPARTMENT OF EDUCATION
P.O. BOX 2360
HONOLULU, HAWAII 96804

OFFICE OF FACILITIES AND OPERATIONS

March 18, 2022

TO: Mary Alice Evans
Director, Office of Planning and Sustainable Development
Environmental Review Program

FROM: Edward S. Ige *Edward S. Ige*
Facilities Director, Facilities Development Branch

SUBJECT: FINAL Environmental Assessment and Finding of No Significant Impact
(FEA-FONSI)
Kanoelani Elementary School – Shade Structure
Waipahu, Honolulu County, Hawaii
Job No.: Q84206-18
TMK: (1) 9-4-115: 023

The State of Hawaii Department of Education has reviewed the DRAFT Environmental Assessment (DEA) and the comments received during the 30-day comment period for the subject project, and has issued a Finding of No Significant Impact (FONSI) determination.

The information and the file required for publication, including an electronic copy of the FEA and FONSI, will be uploaded to the Environmental Review Program website. We respectfully request the publication of this FEA-FONSI in the upcoming issue of *The Environmental Notice*.

Should you have any questions, please contact William George, Project Coordinator of the Facilities Development Branch, Project Management Section, at (808) 784-5125 or via email at William.george@k12.hi.us.

ESI:wg

c: Facilities Development Branch

From: webmaster@hawaii.gov
To: [DBEDT OPSD Environmental Review Program](#)
Subject: New online submission for The Environmental Notice
Date: Friday, March 25, 2022 9:17:58 AM

Action Name

Kanoelani Elementary School Shade Structure

Type of Document/Determination

Final environmental assessment and finding of no significant impact (FEA-FONSI)

HRS §343-5(a) Trigger(s)

- (1) Propose the use of state or county lands or the use of state or county funds

Judicial district

‘Ewa, O‘ahu

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

[1]9-4-115: 023

Action type

Agency

Other required permits and approvals

Variance from Pollution Control, Disability and Communication Access Board, Chapter 6E Review, Grubbing-Grading-Stockpiling, Building, Waiver (Height and Lot Area), HFD Plan Check

Proposing/determining agency

Department of Education

Agency contact name

William George

Agency contact email (for info about the action)

William.george@k12.hi.us

Email address or URL for receiving comments

William.george@k12.hi.us

Agency contact phone

(808) 768-5125

Agency address

3633 Waialae Avenue
Honolulu, HI 96816
United States
[Map It](#)

Was this submittal prepared by a consultant?

Yes

Consultant

Gerald Park Urban Planner

Consultant contact name

Gerald Park

Consultant contact email

gpark@gpup.biz

Consultant contact phone

(808) 625-9626

Consultant address

95-595 Kanamee Street #324
Mililani, HI 96789
United States
[Map It](#)

Action summary

The Department of Education, State of Hawai'i, proposes to construct improvements at Kanoelani Elementary School, District of 'Ewa, O'ahu, Hawai'i. Kanoelani Elementary School is located in the Gentry Waipio residential community in Central O'ahu.

The proposed action will increase the cafeteria capacity to accommodate the growing student population with remote food service and / or a dining facility,

A covered structure open on three sides will be constructed. Exterior walls are not proposed except the side facing Building C will be enclosed by a CMU wall. A capacity of 378 students is projected.

Roof runoff from the structure will be piped to an underground stormwater retention system to be constructed on the hillside to the east of the building site.

The cost of the project is estimated at \$7.0 million.

Reasons supporting determination

Refer to Section 7 of the Final Environmental Assessment.

Attached documents (signed agency letter & EA/EIS)

- [Kanoelani-Elementary.pdf](#)
- [FEA-FONSI-Kanoelani-ES.pdf](#)

Shapefile

- The location map for this Final EA is the same as the location map for the associated Draft EA.

Action location map

- [Kaneolani-Elem-School-Figure-1-Vicinity-Map-1-003.zip](#)

Authorized individual

Gerald Park

Authorization

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

FINAL ENVIRONMENTAL ASSESSMENT

**KANOELANI ELEMENTARY SCHOOL
SHADE STRUCTURE**

Waipio, District of 'Ewa, O'ahu, Hawai'i



Prepared for

Department of Education, State of Hawai'i
Office of School Facilities and Support Services
Facilities Development Branch-Project Management Section
3633 Waialae Avenue
Honolulu, Hawai'i 96816

Malaki 2022

FINAL ENVIRONMENTAL ASSESSMENT

KANOELANI ELEMENTARY SCHOOL SHADE STRUCTURE

Waipio, District of 'Ewa, O'ahu, Hawai'i

Prepared in Partial Fulfillment of Chapter 343, Hawai'i Revised Statutes and Hawai'i
Administrative Rules Chapter 11-200.1, Department of Health, State of Hawai'i

Prepared for

Department of Education, State of Hawai'i
Office of School Facilities and Support Services
Facilities Development Branch-Project Management Section
3633 Waialae Avenue
Honolulu, Hawai'i 96816

Prepared by

Gerald Park Urban Planner
95-595 Kaname'e Street, #324
Mililani, HI 96789

WhiteSpace Architects
2051 Young Street, 2nd Floor
Honolulu, HI 96826

Malaki 2022

PROJECT PROFILE

Project: Kanoelani Elementary School
Shade Structure
DOE Job No. Q84206-18

Street Address: Kanoelani Elementary School
94-1091 Oli Loop
Waipahu, O'ahu, Hawai'i

Proposing/Determining Agency: Department of Education
Facilities Development Branch
State of Hawai'i
3633 Waialae Avenue
Honolulu, Hawai'i 96816

Tax Map Key: [1] 9-4-115: 023
Land Area: 6.0 acres
Land Owner: State of Hawai'i

State Land Use Designation: Urban
General Plan: Rural
Sustainable Communities Plan: Central Oahu
SCP Land Use Map: Residential and Low Density
Zoning: P-2 General Preservation
Special Management Area: Outside Special Management Area

Existing Use: Public Elementary School

Need for Environmental Assessment: Chapter 343, Hawai'i Revised Statutes
§343-5(a)(1) Propose the use of state or
county lands or state or county funds

Anticipated Determination: Finding of No Significant Impact

Project Contact: William George, Project Manager
Department of Education
Facilities Development Branch
3633 Waialae Avenue
Honolulu, Hawai'i 96816

Telephone: (808) 768-5125
Email: William.george@k12.hi.us

*Note: Substantive revisions to the text of the Draft Environmental Assessment are in **bold italic** type. Deleted text is bracketed with a ~~[strikethrough]~~.*

SECTION 1 DESCRIPTION OF THE PROPOSED ACTION

The Department of Education, State of Hawai'i, proposes to construct improvements at Kanoelani Elementary School, District of 'Ewa, O'ahu, Hawai'i. Kanoelani Elementary School ("School") is located in the Gentry Waipio residential community in Central Oahu. The School is bounded by Waipio Community Park to the north, residential dwellings to the east and south, and Oli Loop to the west.

The project area is identified as Tax Map Key [1] 9-4-115: 023 with an area of 6.0 acres. The lot is owned by the State of Hawai'i. A Vicinity Map and Tax Map are shown as Figures 1 and 2, respectively.

A. Purpose of the Proposed Action

The purpose of the proposed action is cited from the language appropriating funds for the project: Plans, design, and construction to increase the cafeteria capacity to accommodate the growing student population; including alternative or remote food service and / or dining facility, ground and site improvements; equipment and appurtenances.

B. Technical Characteristics

1. Demolition

The project is proposed at the south end of the campus on a grass lawn between Buildings A and B on the north, Building C on the east, a row of three portable classrooms on the west, and residential dwellings on the south (A Site Plan is shown as Sheet A100). Building C is a two-story classroom building and the others are one-floor in height.

The grass lawn will be grubbed and graded to design elevation. An outdoor concrete "stage" in the northeast corner will be demolished. A painted map of the United States including Hawaii and Alaska on the floor of the stage will be removed and relocated elsewhere on campus. Existing water lines adjoining and under the building site will be either be demolished and removed or cut and plugged and left in place.

There are no structures on the lawn thus no building will be demolished. Six areca palms behind the stage will be removed and several trees on a grass slope to the east will be removed.

2. Shade Structure

A covered structure open on three sides will be constructed. Exterior walls are not proposed except the side facing Building C will be enclosed by a CMU wall. The approximately 8,000 square foot structure (92' X 87') will serve principally as an open-air dining space with secondary uses as a breakout classroom, covered recreation area, performance area, and meeting space for the school and community (See Floor Plan, Sheet A 103). A capacity of 378 students is projected.

The structure will be erected on a poured in place concrete foundation and floor. The pre-engineered metal structure will be partially framed with CMU and topped by a pitched standing seam metal roof. Roll up gates on three sides will provide access, security, and air circulation. The building height is 25 feet and will not exceed the allowable height limit for the zoning district. Exterior Elevations are shown as Sheet A 202).

A raised stage (400 square feet) and storage rooms flanking the stage are proposed. Restroom facilities are available in the adjoining classroom buildings.

Roof runoff from the structure will be collected and piped to an underground stormwater retention system to be constructed on the hillside to the east of the building site (See Site Plan Sheet A100). An area of approximately 1,500 square feet will be excavated and four 48" diameter perforated pipes 45 feet in length installed. Aggregate will be deposited under and around the pipes for percolation and stability. Backfilling will restore the hillside to pre-construction conditions. The system is designed to hold approximately 4,000 cubic feet of water. An 8" diameter overflow will connect to an existing 18" drain line to the north of the retention system. A new storm drain manhole will be constructed for the connection. Civil Details of the system are shown as Sheet 503.

An existing 18" drain line passes under the building site. The line will be left in place and jacketed in concrete to mitigate against damage.

Water is available from the on-site water distribution system. New water lines will replace lines that are demolished. Restrooms are not provided so connection to the on-site wastewater system is not required.

The covered structure will be equipped with a sprinkler system in lieu of providing a fire lane for a fire apparatus. An 8" fire service line will be aligned along the south and east sides of the structure. A Site and Utility plan is shown as Sheet C 203.

C. Economic Characteristics

The cost of the project is estimated at \$7.0 million and will be funded by the State of Hawai'i. The improvements will be constructed in one phase with construction start-up in June 2022 and completion by August 2023 (14 months). Work will commence after all permits and approvals have been received.

D. Social Characteristics

A significant portion of the grass lawn and ancillary improvements will be removed from use for recess, school assemblies, outdoor performances, and a play area for the after-school program. Displaced uses can be resumed "under roof" when the structure is completed.



Source: Google Maps 2021 Imagery

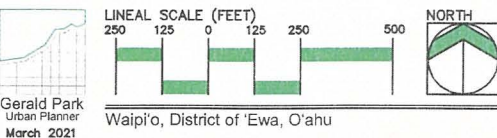
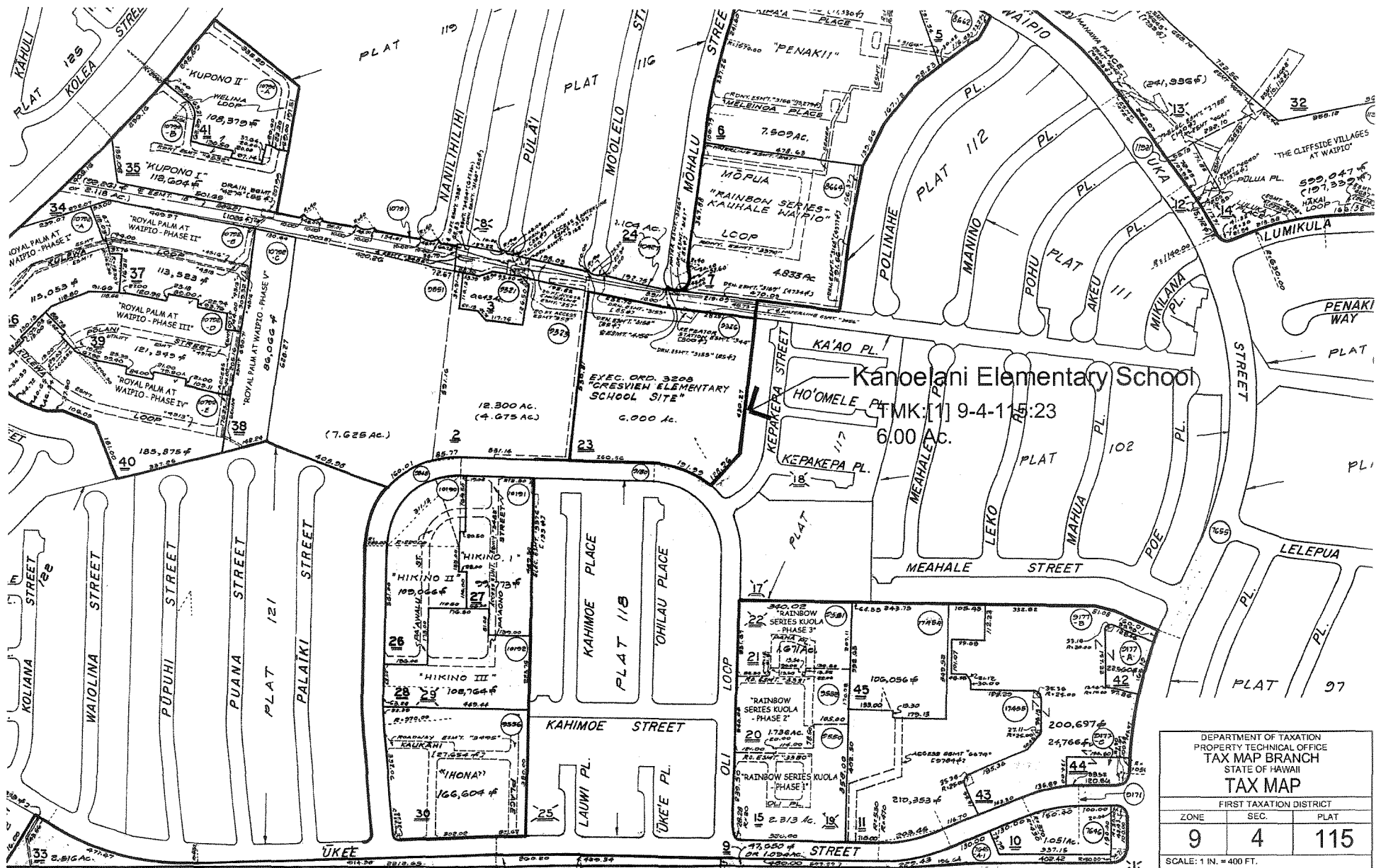


Figure 1
Vicinity Map
Kanoelani Elementary School

Department of Education, State of Hawai'i



DEPARTMENT OF TAXATION
PROPERTY TECHNICAL OFFICE
TAX MAP BRANCH
STATE OF HAWAII

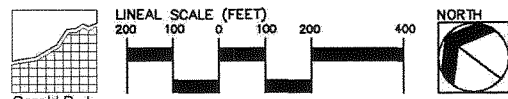
TAX MAP

FIRST TAXATION DISTRICT

ZONE	SEC.	PLAT
9	4	115

SCALE: 1 IN. = 400 FT.

Source: City & County of Honolulu GIS Website



Gerald Park
Urban Planner
March 2021
Waipio, District of Ewa, O'ahu

Figure 2
Tax Map
Kanoelani Elementary School

Department of Education, State of Hawaii



Source: Google Maps 2021 Imagery



Gerald Park
 Urban Planner
 March 2021

Waip'i'o, District of 'Ewa, O'ahu

Figure 3
 Campus Map
 Kanoelani Elementary School

P21 NO SCOPE P22 NO SCOPE P23 NO SCOPE P24 NO SCOPE P25 NO SCOPE P26 NO SCOPE P27 NO SCOPE

CLASSROOM BLDG B
NO SCOPE

CLASSROOM BLDG B
NO SCOPE

CLASSROOM BLDG C
NO SCOPE

P28
NO SCOPE

CLASSROOM BLDG A
NO SCOPE

CLASSROOM BLDG A
NO SCOPE

SHADE STRUCTURE
SEE SHADE STRUCTURE
FLOOR PLAN ON 1/A103

DETENTION
BASIN, SEE CIVIL

SEE CAFETERIA FLOOR PLAN
ON 1/A101

LIBRARY BLDG E
NO SCOPE

P1 NO SCOPE P2 NO SCOPE P3 NO SCOPE

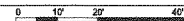
P4 NO SCOPE P5 NO SCOPE P6 NO SCOPE

ADMIN BLDG G
NO SCOPE

CLASSROOM BLDG F
NO SCOPE

1 SITE PLAN

Scale: 1" = 20'



REVISION NO.	SYM.	DESCRIPTION	SHT. OF	DATE	APPROVED:

PHILIP K. WHITE
LICENSED PROFESSIONAL ARCHITECT
No. 5537
HAWAII, U.S.A.

License Expires 4-30-22

This work was prepared by me or under my supervision, and construction of this project will be under my observation.

DEPARTMENT OF EDUCATION
STATE OF HAWAII

**KAOELANI ELEMENTARY SCHOOL
CAFETERIA - EXPANSION/RENOVATION**

WAIPIHU OAHU HAWAII

SITE PLAN

WHITESPACE ARCHITECTS		JOB NO.	DRAWING NO.
DESIGNED BY: PW, LA	CHECKED BY:	QB4206-18	A100
DRAWN BY:	APPROVED BY:	DATE	SHEET
		05/20/21	9
SCALE:			OF 81 SHETS

FILE DRAWER FOLDER

CLASSROOM BLDG B
NO SCOPE

CLASSROOM BLDG A
NO SCOPE

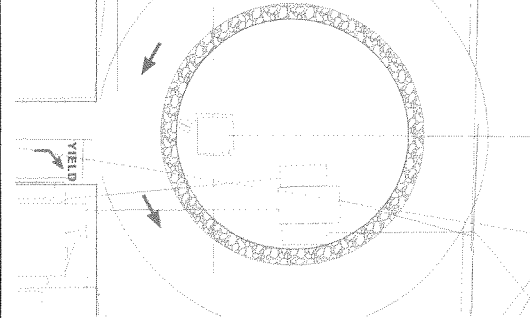
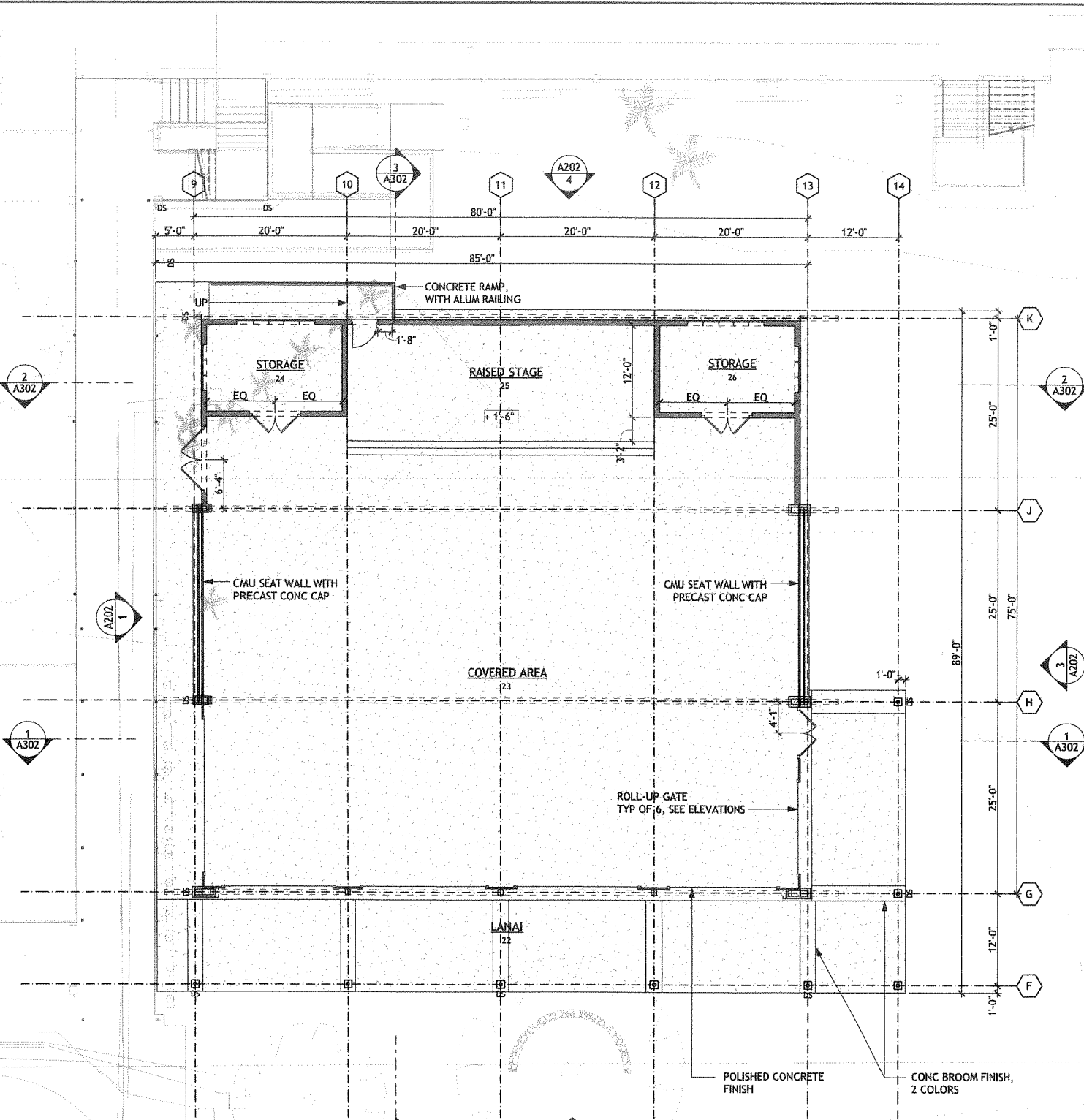
P1
NO SCOPE

P2
NO SCOPE

P3
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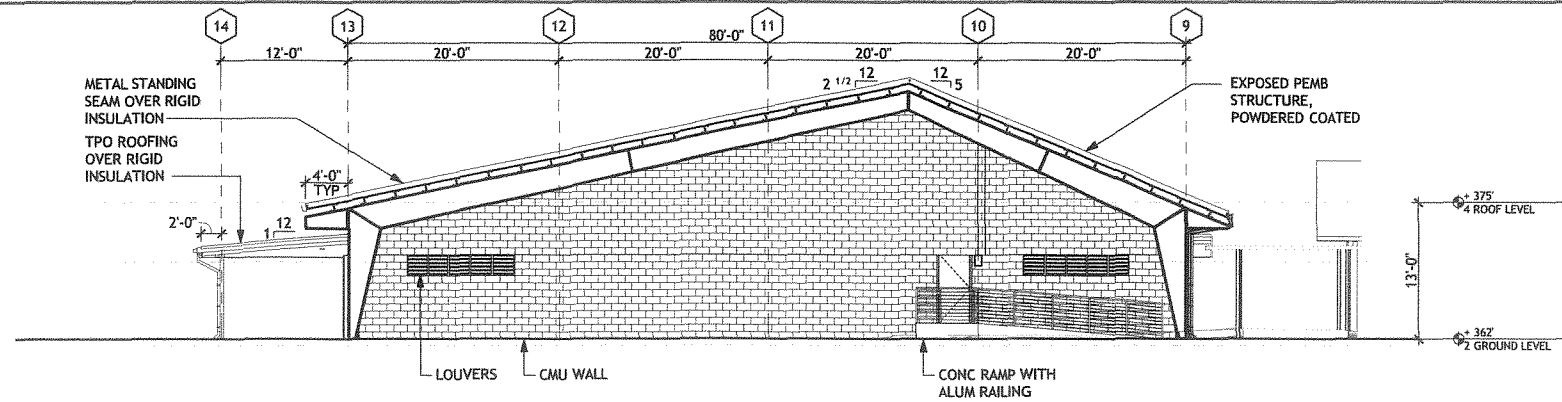
1 FLOOR PLAN - SHADE STRUCTURE

Scale: 1/8" = 1'-0"

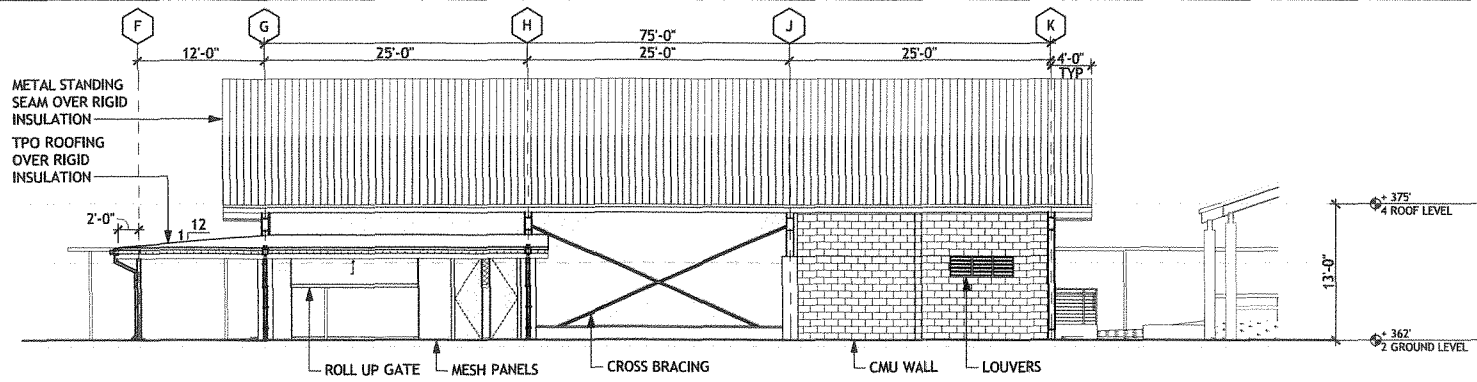


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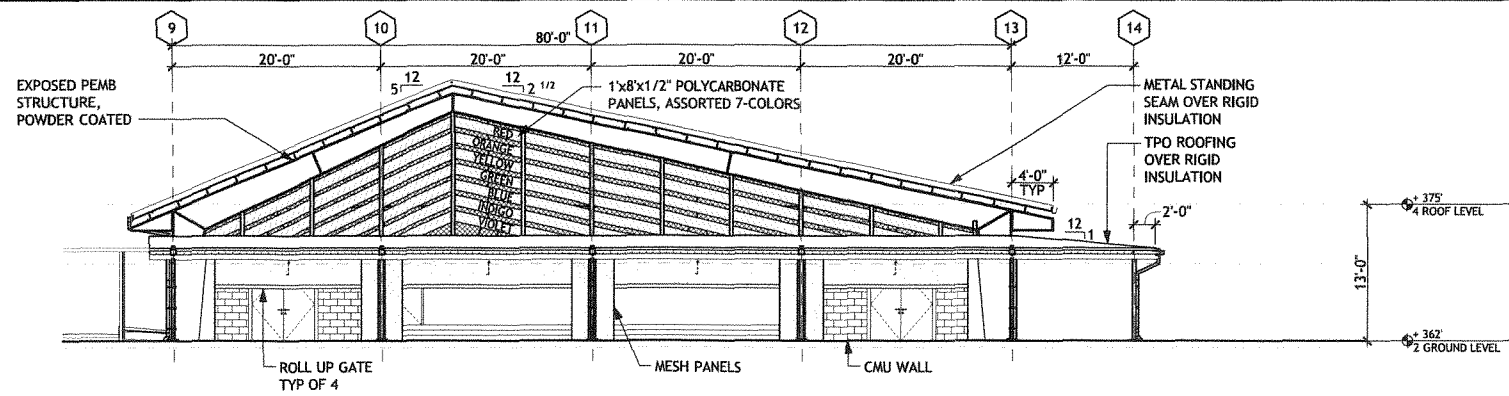
			DEPARTMENT OF EDUCATION STATE OF HAWAII		
KAOELANI ELEMENTARY SCHOOL CAFETERIA - EXPANSION/RENOVATION					
WAIPIHU					
FLOOR PLAN - SHADE STRUCTURE					
WHITESPACE ARCHITECTS		JOB NO.	DRAWING NO.		
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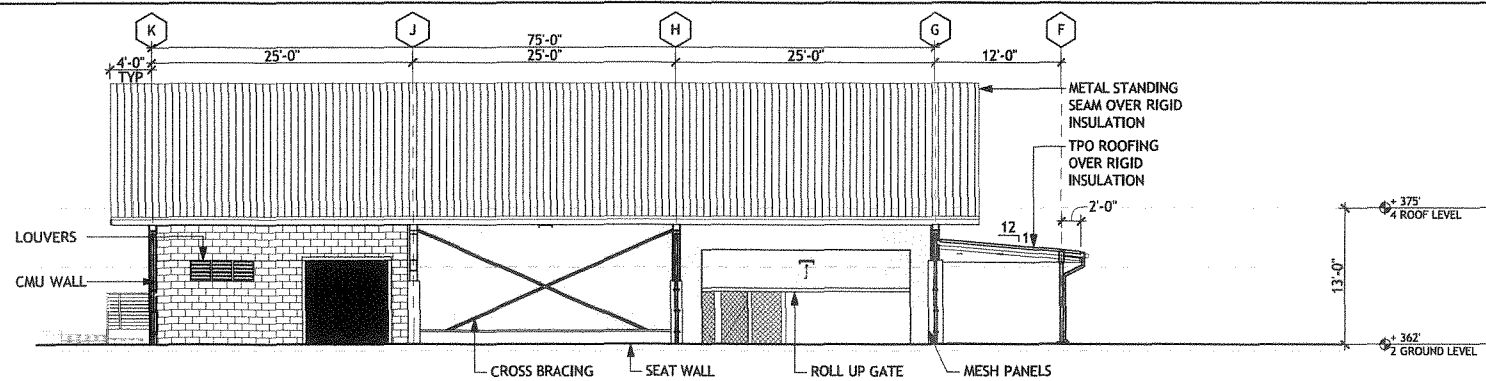
4 CLASSROOM ELEVATION
Scale: 1/8" = 1'-0"



3 RESIDENTIAL ELEVATION
Scale: 1/8" = 1'-0"



2 PORTABLES ELEVATION
Scale: 1/8" = 1'-0"



1 WALKWAY ELEVATION
Scale: 1/8" = 1'-0"

REVISION NO.	SYM.	DESCRIPTION	SHT. OF	DATE	APPROVED:

PHILIP K. WHITE
LICENSED PROFESSIONAL ARCHITECT
No. 6537
HAWAII, U.S.A.

License Expires 4-30-22

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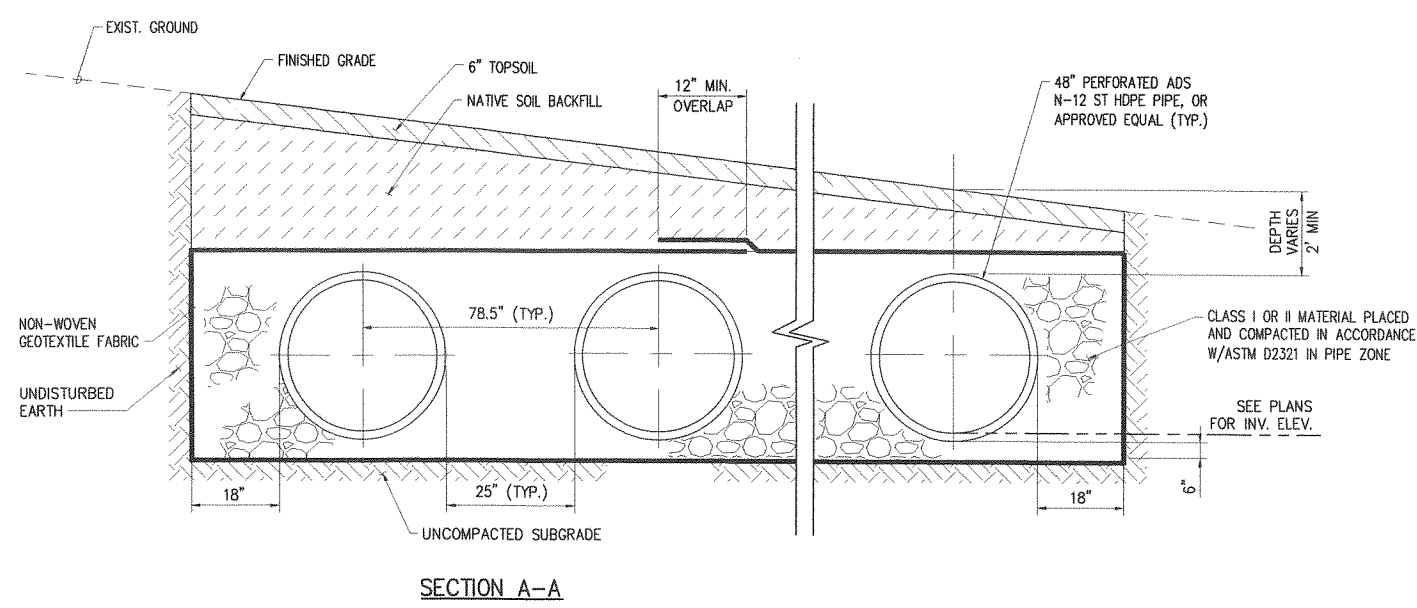
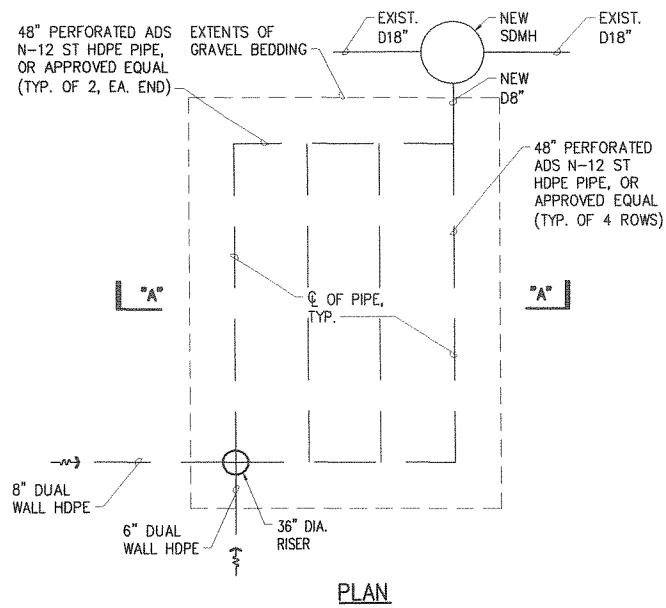
DEPARTMENT OF EDUCATION
STATE OF HAWAII

**KAOELANI ELEMENTARY SCHOOL
CAFETERIA - EXPANSION/RENOVATION**

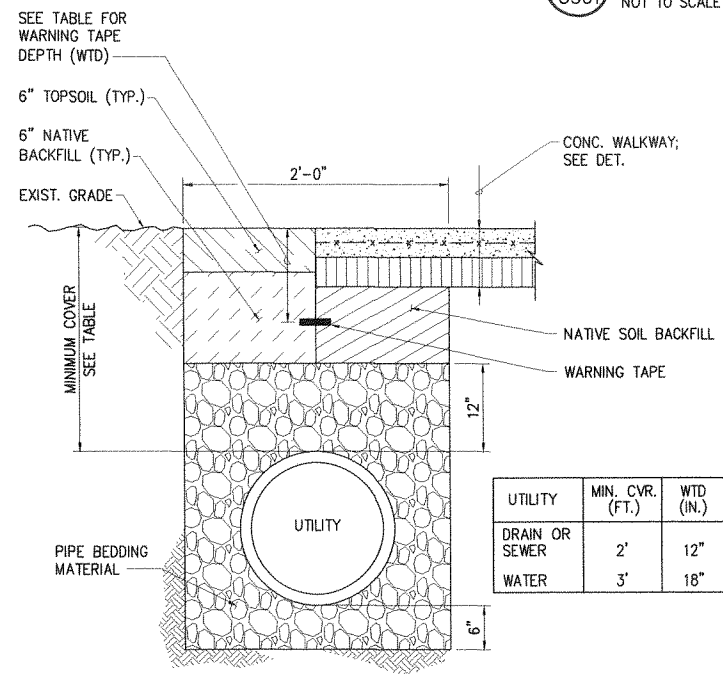
WAIPAHU OAHU HAWAII

**EXTERIOR ELEVATIONS - SHADE
STRUCTURE**

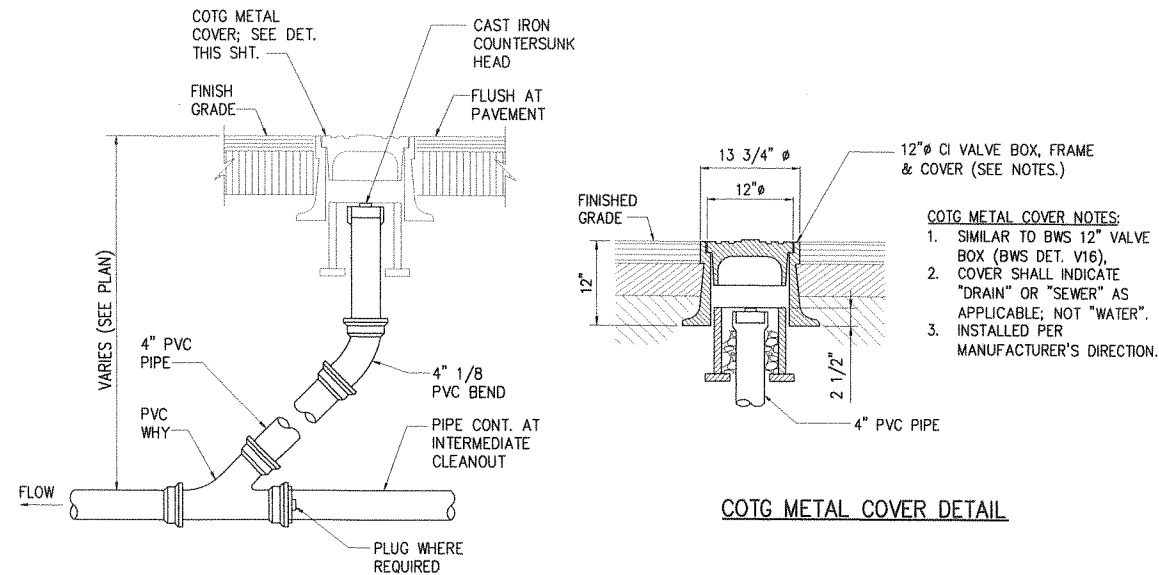
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DRAWN BY:	APPROVED BY:	DATE 05/20/22	SHEET 18
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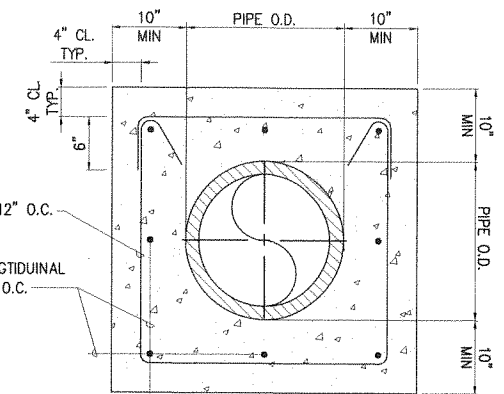
1 STORMWATER DETENTION SYSTEM DETAIL
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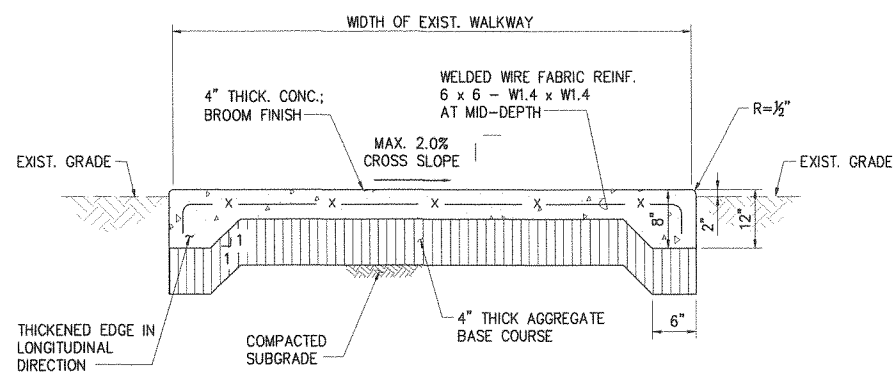
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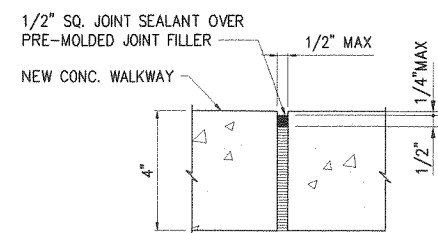
3 CLEANOUT TO GRADE DETAIL
C501 NOT TO SCALE



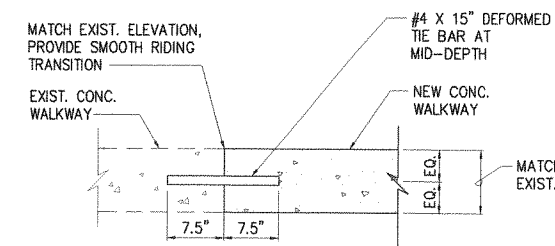
4 DRAIN LINE REINFORCED CONCRETE JACKET DETAIL
C501 NOT TO SCALE



5 CONCRETE WALKWAY DETAIL
C501 NOT TO SCALE



6 EXPANSION JOINT DETAIL
C501 NOT TO SCALE



7 CONCRETE CONNECTION DETAIL
C501 NOT TO SCALE

APPROVED: _____ DATE _____
CHIEF, CIVIL ENGINEERING BRANCH, DPP

NOTE:
TIE BAR SHALL BE PLACED MID DEPTH AT 18" O.C. MAX. DRILL 1/2" DIA. HOLE AND FILL WITH NON-SHRINK EPOXY GROUT. CLEAN AND ROUGHEN EXPOSED SURFACE AND APPLY EPOXY-RESIN ADHESIVE PRIOR TO POURING CONCRETE.

REVISION NO.	SYM.	DESCRIPTION	SHT. OF	DATE	APPROVED:

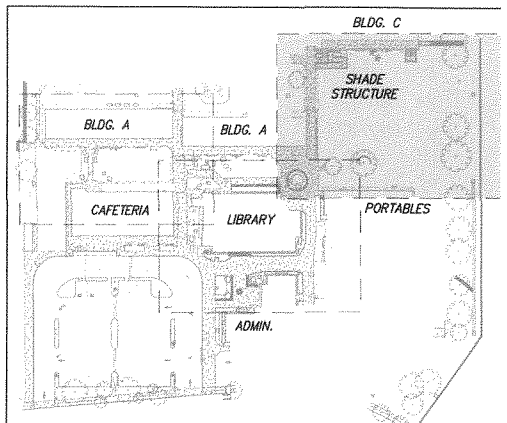
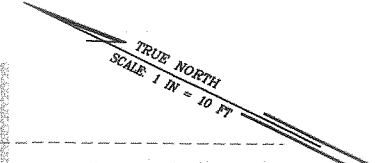
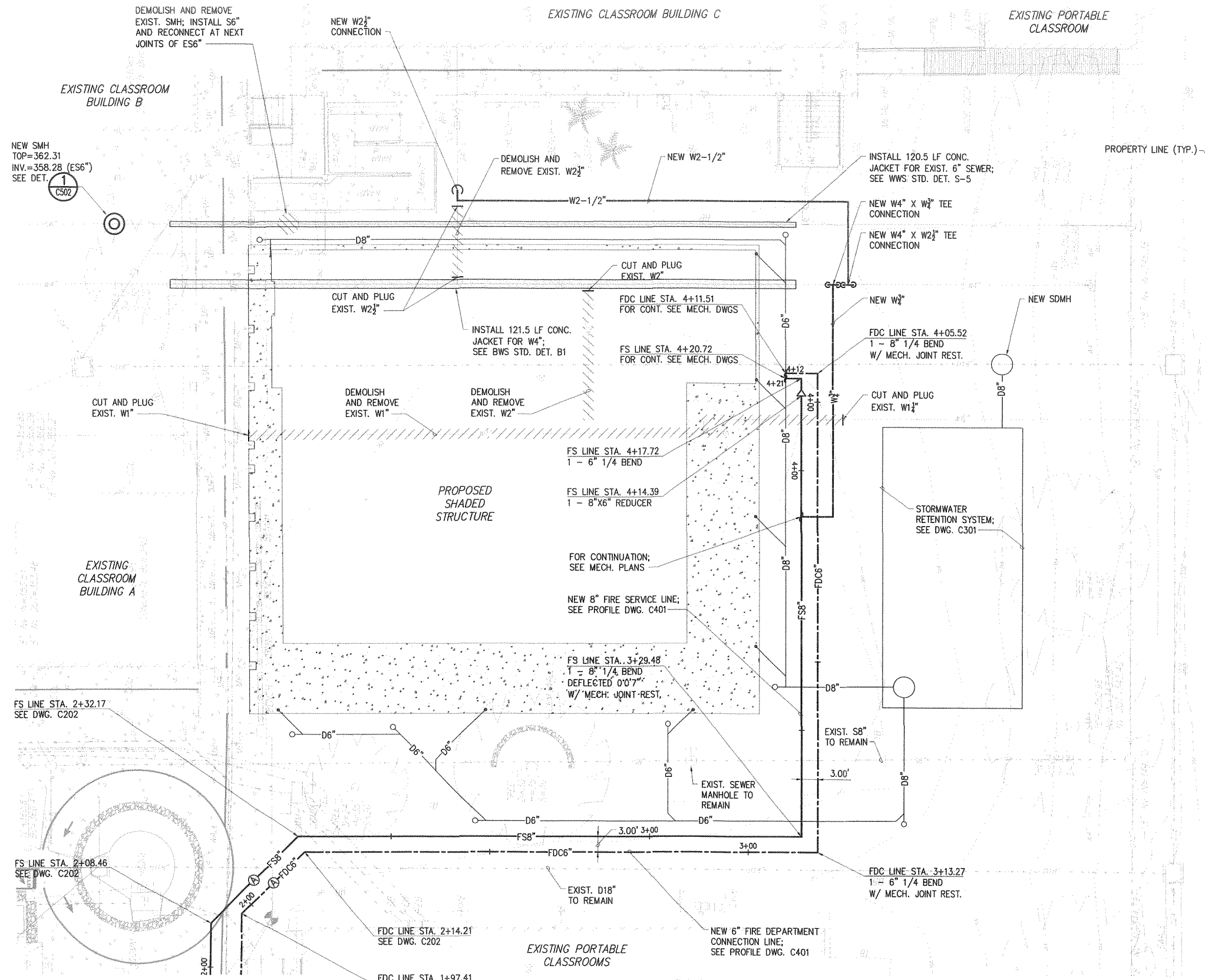
DEPARTMENT OF EDUCATION
STATE OF HAWAII

KAOELANI ELEMENTARY SCHOOL
CAFETERIA - EXPANSION/RENOVATION

WAIKAPU OAHU HAWAII

CIVIL DETAILS 1

DESIGNED BY: TLGC	CHECKED BY:	JOB NO. 084206-18	DRAWING NO. C501
DRAWN BY:	APPROVED BY:	DATE 05/20/2021	SHEET 13
SCALE:			OF 36 01



KEY PLAN

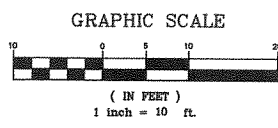
- NOTES:**
1. FOR DRAINAGE SYSTEM INFORMATION, SEE GRADING AND DRAINAGE PLAN, DWG. C301.
 2. FOR IRRIGATION SYSTEM INFORMATION, SEE LANDSCAPE PLANS.

FOR CONTINUATION
SEE SITE AND UTILITY PLAN – FIRE LINES

SITE AND UTILITY PLAN – SHADE STRUCTURE
SCALE: 1"=10'

LEGEND:

- | | | | | | |
|-------|-------------------|--------|--------------------------|---|---------------------------------------|
| --- | PROPERTY LINE | —D8" | NEW DRAIN LINE | ○ | NEW DRAIN MANHOLE |
| - - - | EASEMENT LINE | —W2" | NEW WATER LINE | ⊙ | NEW SEWER MANHOLE |
| --- | EXIST. SEWER LINE | —FS8" | NEW FIRE SERVICE LINE | ⊗ | EXIST. SEWER MANHOLE TO BE DEMOLISHED |
| --- | EXIST. DRAIN LINE | —FDC6" | NEW FIRE CONNECTION LINE | ▨ | |
| --- | EXIST. WATER LINE | ▨ | NEW CONCRETE JACKET | | |



REVISION NO.	SYM.	DESCRIPTION	SHT. OF	DATE	APPROVED:

DEPARTMENT OF EDUCATION STATE OF HAWAII					
KAOE LANI ELEMENTARY SCHOOL CAFETERIA - EXPANSION/RENOVATION					
WAIKAPU		OAHU		HAWAII	
SITE AND UTILITY PLAN - SHADE STRUCTURE					
THE LIMITACO CONSULTING GROUP, INC.			JOB NO. O84206-18		DRAWING NO. C203
DESIGNED BY: TLGG	CHECKED BY:	DATE: 05/20/2021	SHEET 8 OF 36 SH		
DRAWN BY:	APPROVED BY:	SCALE:			

SECTION 2 DESCRIPTION OF THE AFFECTED ENVIRONMENT

A. Background

Kanoelani Elementary School opened in 1982 at its present location with two permanent buildings and several portable classrooms. Additional permanent buildings were later added and today the campus features 7 permanent buildings and 14 portable classrooms (Department of Education, 2006).

Table 1. Campus Buildings

Building	Design Use	Year Built	# Floors
A	Classroom	1982	1
B	Classroom	1982	1
C	Classroom	1984	2
D	Serving Kitchen	1987	1
E	Library	1998	1
F	Classroom	1987	1
G	Administration	1998	1
*P1 - P28	Portable Classrooms	1966 - 1997	1
*14 Portables			

Source: Department of Education, 2006

Enrollment in kindergarten to Grade 6 and Special Education totaled 756 students in school year 2020-2021 (Communication, 2021). The design capacity is 800 students. Full-time staff numbers 105 to include administrators, clerical staff, specialty positions, faculty, and support personnel.

The School is part of the Leeward Oahu School District Pearl City-Waipahu Complex Area of the Leeward Oahu School District. Complex areas consist of elementary, middle, and high schools within geographic areas on Oahu. Kanoelani Elementary School is in the Pearl City Complex that includes Lehua, Manana, Momilani, Palisades, Pearl City, Pearl City Highlands, and Waiiau Elementary Schools; Highlands Intermediate School, and Pearl City High School. Elementary schools “feed” students to the intermediate school which in turn “feed” students into high school.

The grass lawn is located in a U-shaped area formed by Buildings A and B to the west, Building C to the north, and a row of portable classrooms to the south (See Photograph 1). The open side faces residential dwellings to the east. Within these boundaries, the lawn is about 56,000 square feet in area. It is slightly raised above adjoining areas and trends downwards along a grass slope to the east (See Photograph 2). Measured from the edges of the adjoining buildings. A raised structure / platform in the northeast corner has a level surface with a map of the continental United States including Hawai'i and Alaska. The

platform is used for outdoor performances. The lawn is usually used for recess, school assemblies, and a play field for the after-school program



Photograph 1. West View of Lawn Area. Building A in background and Building C on the Right.



Photograph 2. Approximate Location of Underground Retention System.

B. Climate

The climate of the Waipio area can be characterized as warm and tropical. Annual rainfall averages 108 inches with precipitation averaging 6.5 inches in June and 11.8 inches in March. Normal monthly high temperatures range from a low of 80° F January to a high of 89° F in August. Monthly low temperatures range from 65° F in February to a high of 74° F in August (Department of Design and Construction, 2015).

Prevailing winds blow from a northeast direction at an average 10-13 mph.

C. Topography

The building site is relatively flat with ground elevation averaging 361 feet over the building site. The site of the underground detention system ranges in elevation from 360 feet at the top of slope to 356 feet along the toe of the slope.

D. Soils

Based on Soil Conservation Soil Maps (1972) it appears that the major soil type is Molokai silty clay loam (Symbol MuB). Characteristics for this soil is slow to moderate runoff and slight to moderate erosion hazard. This soil was mapped in 1972 well before the area was urbanized for development of the Gentry Waipio community. Mass grading for residential subdivision, commercial uses, and industrial warehousing probably altered the surface of the soil type and imported engineered fill and topsoil altered its composition. This act of land transformation more than likely also occurred at the School site.

E. Flood Hazard and Drainage

The Flood Hazard Assessment Map for the Waipio community places it in Flood Zone D which is defined as "unstudied areas where flood hazards are undetermined but flooding is possible".

The building site is well drained. Runoff from Buildings A and B are conveyed by an 18" drain lines under the building site to a drain inlet at the bottom of the hill. A second 18" drain line extends from a circular monument near Building A, passes the portable classrooms, and discharges into a second inlet at the bottom of the hill.

Runoff from the lawn flows from west to east downhill into two drain inlets and a lined swale at the bottom of the hill. The inlets discharge runoff into a 24" line which outlets into the municipal system in Oli Loop.

F. Water Resources






1. Surface Water






There are no freshwater streams, rivers, ponds, or wetlands on the school grounds.



Source: DLNR Flood Assessment Tool Website

LEGEND

FLOOD HAZARD ASSESSMENT TOOL LAYER LEGEND (Note: legend does not correspond with NFHL)	
SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD - The 1% annual chance flood (100-year), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. SFHAs include Zone A, AE, AH, AO, V, and VE. The Base Flood Elevation (BFE) is the water surface elevation of the 1% annual chance flood. Mandatory flood insurance purchase applies in these zones:	
	Zone A: No BFE determined.
	Zone AE: BFE determined.
	Zone AH: Flood depths of 1 to 3 feet (usually areas of ponding); BFE determined.
	Zone AO: Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined.
	Zone V: Coastal flood zone with velocity hazard (wave action); no BFE determined.

	Zone VE: Coastal flood zone with velocity hazard (wave action); BFE determined.
	Zone AEF: Floodway areas in Zone AE. The floodway is the channel of stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without increasing the BFE.
NON-SPECIAL FLOOD HAZARD AREA - An area in a low-to-moderate risk flood zone. No mandatory flood insurance purchase requirements apply, but coverage is available in participating communities.	
	Zone XS (X shaded): Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.
	Zone X: Areas determined to be outside the 0.2% annual chance floodplain.
OTHER FLOOD AREAS	
	Zone D: Unstudied areas where flood hazards are undetermined, but flooding is possible. No mandatory flood insurance purchase apply, but coverage is available in participating communities.

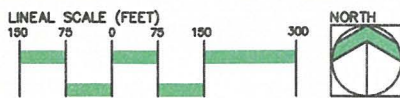


Figure 4
Flood Hazard Assessment Map
Kanoelani Elementary School

2. Groundwater

Groundwater maps prepared by Mink and Lau (1990) show Waipi'o overlies the Waiawa aquifer of the Pearl Harbor aquifer sector (See Table 2). The Waiawa aquifer is characterized as an unconfined basal aquifer occurring in flank lavas. It provides fresh drinking water, is considered irreplaceable, and highly vulnerable to contamination.

Table 2. Aquifer Classification System

Aquifer Code	30202111
Island Code	3 - Oahu
Aquifer Sector	02 - Pearl Harbor
Aquifer System	02 - Waiawa
Aquifer Type, Hydrogeology	1 - Basal
Aquifer Condition	1 - Unconfined
Aquifer Type, Geology	1 - Flank
Status Code	11111
Developmental Stage	1 - Currently Used
Utility	1 - Drinking
Salinity (mg/l Cl ⁻)	1 - Fresh (<250)
Uniqueness	1 - Irreplaceable
Vulnerability to Contamination	1 - High

Source: Mink and Lau, 1990

G. Biological Resources

The building site is sparsely vegetated with the grass lawn the principal form of vegetation. Formosan koa are planted on the grass slope to the east. A shower tree and gold tree grow on the south side of the lawn near the row of portable classrooms. Short (c. 3'-0") areca palms are planted behind the raised stage.

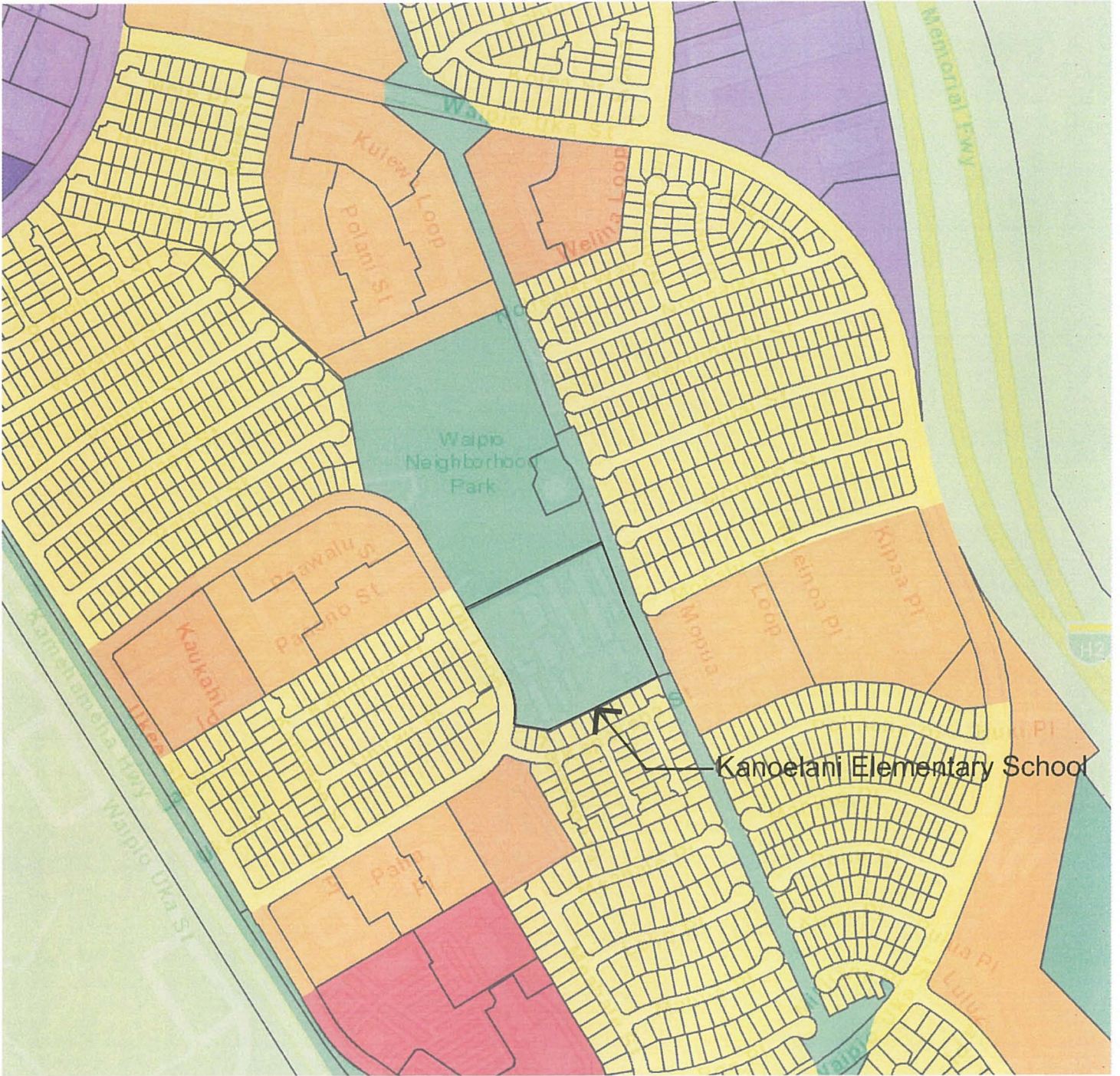
H. Historical Resources

No historic features were observed on the ground surface during the field inspection. The lawn area (and the remainder of the campus) has been graded, filled, and terraced to accommodate construction of permanent and temporary buildings, pavements, walkways, drainage and utilities, and landscaping.

I. Land Use and Controls

State and County land use controls are cited below:

State Land Use Designation: Urban
General Plan Development Pattern:
Sustainable Communities Plan (SCP): Central Oahu
SCP Land Use Map: Residential and Low Density Apartment
Zoning: P-2 General Preservation (See Figure 4)



Source: City & County GIS Website.

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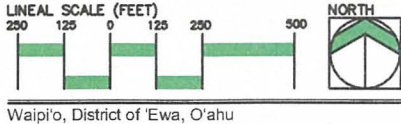
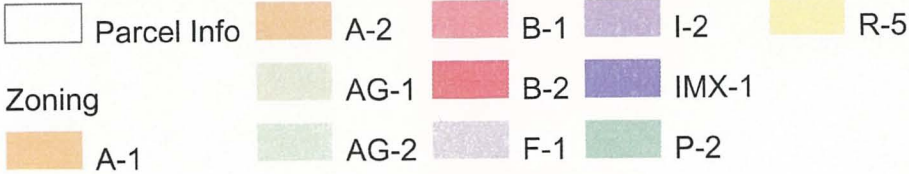


Figure 5
Zoning
Kanoelani Elementary School

The project supports the general plan educational policy to:

“Encourage the after hours use of school buildings, grounds, and facilities.”

An after school program currently operates at Kanoelani Elementary School.

The objectives for the Education component of the Central Oahu Sustainable Communities Plan --- Project Review and Approval Assessment and Fair Share Provisions---do not apply to this project because Kanoelani Elementary School is an existing public school.

The school already allows community use of certain facilities. In addition the school is adjacent to Waipio Neighborhood Park and uses the park for some of its school activities (Department of Planning and Permitting Comments and Responses).

Public uses and structures are permitted in the P-2 General Preservation zoning district (Land Use Ordinance, Table 21-3). Public uses and structures “mean uses conducted by or structures owned or managed by the federal government, the State of Hawaii or the city to fulfill a governmental function, activity or service for public benefit and in accordance with public policy” (Land Use Ordinance, Definitions, 1968). A public school is identified as a typical example of public uses and structures.

The School is not located on or near the shoreline and is outside of the County delineated Special Management Area (“SMA”). SMA permitting is not required.

J. Public Facilities

Oli Loop, a two-lane, two-way, all-weather surfaced roadway bounds the School on the west. The street is fully improved with curbs, gutters, sidewalks, and planting strips on both sides of the travel lanes. The speed limit is 25 mph fronting the School.

Potable **water** is supplied by the Board of Water Supply, City and County of Honolulu. Water is supplied from a lateral in Oli Loop. The on-site water system distributes domestic water throughout the campus.

Fire flow is delivered by 6” fire service lines from Oli Loop.

The on-site wastewater system consists of 8” and 10” laterals. Wastewater is collected and discharged into a main in Oli Loop and conveyed

Protective services originate from the Pearl City Police Station on Waimano Home Road in the Pearl City community. The station is approximately 3.0 miles to the east of the Waipi’o community.

Fire protection originates from the Waikele Fire Station (Station 42) on Lumiaina Street approximately 1.6 miles away.

The City and County of Honolulu recently operationalized a stand-alone Ambulance facility in Waipi’o on Uke’e Street. The two-ambulance facility is approximately 0.5 miles away.

Waipi'o Neighborhood Park bounds the School to the north. The City-owned **park facilities** include a comfort station, play fields for baseball, softball, and a multi-purpose field for youth football and soccer. Courts are provided for basketball, volleyball, and tennis (Department of Parks and Recreation, 1997).

The School uses the park for recess, drills, PE activities, and occasionally school-wide events such as May Day and a fun run (Communication, 2021).

K. Views

The Central O'ahu Sustainable Communities Plan (2021) does not identify Kanoelani Elementary School as a feature to be seen in panoramic or stationary views for the Gentry Waipio community.

SECTION 3 SUMMARY OF POTENTIAL ENVIRONMENTAL IMPACTS AND MEASURES TO MITIGATE ADVERSE EFFECTS

A. Assessment Process

The scope of the project was discussed with the Project Manager for the Department of Education and the consulting architect. State and County agencies were contacted for information relative to their jurisdiction, expertise, and areas of concern. Time was spent in the field surveying site conditions and conditions in the vicinity of the School. Comments were sought from public agencies and property owners adjoining the building site. From the discussions and field investigations, existing conditions and features that could be affected by or affect the project were identified. These influencing conditions are:

- Kanoelani Elementary School opened in 1982;
- There are no archaeological features on the building site;
- There are no rare, threatened, or endangered flora and fauna on the building site;
- There are no surface water bodies on the premises;
- Existing water and sewer service is adequate;
- Construction will preclude use of the grass lawn for outdoor recreation and school functions in the short and long-term.

B. Short-term Impacts

1. Air Quality

Construction will temporarily affect air quality. Demolition, grubbing, grading, stockpiling, backfilling and other soil (or earth) moving activities will raise fugitive dust that can settle in adjoining areas. Windy conditions coupled with exposed soil can create severe dust problems. The general contractor will employ dust control measures to prevent the building site and construction equipment and activities from causing significant dust generation. ***Continuous plywood fencing and or dust screens will be erected around the construction site of the proposed structure and detention basin, down the sloping terrain, and along the affected residential area (Vinluan Comment and Response).***

Control measures shall comply with Chapter 60.1, Air Pollution Control, Title 11, Department of Health, State of Hawaii (and revisions thereto). The site work contractor may implement alternative methods adaptable to the scope of the improvements and features of the site.

Most construction equipment and vehicles are diesel powered and emit exhaust emissions typically high in nitrogen dioxide and low in carbon monoxide. The Federal and State nitrogen dioxide standard ---100mg/m³ per annum---which is an annual standard, is not likely to be exceeded during construction. Carbon dioxide emissions should be less than that generated by automobile traffic on adjoining streets. Aldehyde odors from diesel equipment may be detected but should be dispersed by the prevailing winds.

2. Noise

Construction noise, like fugitive dust, cannot be avoided. Exposure to noise will vary by construction phase, the duration of each phase, and the type of equipment used during the different phases. Maximum sound levels in the range of 82-96 db(A) measured at 50 feet from the source will be generated by heavy machinery during site work. After site work is completed, reductions in sound levels, frequency, and duration can be expected as the building foundation is formed, concrete footings and matting poured, and CMU posts erected to support the pre-engineered metal building, roof trusses, and the roof.

Community Noise Control regulations establish maximum permissible sound levels for construction activities occurring within "acoustical" zoning districts. Based on the preservation zoning for the site, the site is considered to be located in the Class A zoning district for noise control purposes. The maximum permissible daytime sound level in the district attributable to stationary noise sources and equipment related to construction activities is 55 dBA during daytime (7:00 AM to 10:00 PM) and 45 dBA during nighttime (10:00 PM to 7:00 AM) (Chapter 46, Community Noise Control, 1996). As disclosed above, construction noise occasionally will exceed the 55 dBA threshold.

In general, construction activities cannot exceed the permissible noise levels for more than ten percent of the time within any twenty-minute period except by permit or variance. Any noise source that emits noise levels in excess of the maximum permissible sound levels cannot be operated without first obtaining a noise permit from the State Department of Health. Although the permit does not attenuate noise per se it regulates the hours during which excessive noise is allowed.

The general contractor will obtain and comply with conditions attached to the permit. Work will be scheduled between the hours of 7:00 AM to 3:30 PM Mondays through Fridays. The contractor will also ensure that construction equipment with motors is equipped with mufflers in proper operating condition.

Noise will be audible over the 14 month construction period but should not adversely interfere with classroom instruction given the location of the project area, the modest scale of construction, and the distance from nearby classroom buildings. In general adjoining buildings have their exterior walls facing the building site and this would aid in noise attenuation.

Noise would be audible at nearby residences to the east which are approximately 80 feet from the site of the covered shelter and 40 feet from the underground retention site.

Installing the underground retention system does not involve building construction per se and excavation equipment should not adversely affect existing acoustical conditions.

Construction activities will comply with Chapter 46 Community Noise Control, Title 11, Administrative Rules, Department of Health, State of Hawai'i.

3. Erosion

Site work will create opportunities for erosion (fugitive dust and suspended sediment in runoff). Grubbing, grading, and stockpiling of excavated and imported material will be performed in accordance with the erosion control ordinance of the City and County of

Honolulu, approved grading plans, and Rules for Water Quality of the Department of Planning and Permitting, City and County of Honolulu.

Best Management Practices (BMPS) for erosion and drainage control during construction will be incorporated into a detailed Erosion Control Plan. BMPs such as silt curtains erected around work sites and gravel blankets placed at vehicle access points are typical for construction sites. Additional BMPS will be considered based on-site conditions.

The overall project area exceeds one acre thus a NPDES General Permit Authorizing Discharges of Storm Water Associated with Construction Activity will be required from the State Department of Health.

4. Flora

Rare, threatened, or endangered flora or candidates for that status are not found on the building site. Recorded vegetation is primarily grass and weedy specimens. The few trees are all common to the Island of O'ahu and the State of Hawai'i.

Several *Formosan koa* trees on the sloping hillside will be removed. Small areca palms behind the open platform will be removed and could be replanted elsewhere on campus.

5. Archaeological Features

No surface archaeological features were observed during the field investigation. In the absence of such features, environmental impacts are not anticipated.

In the event that subsurface features are unearthed, work in the immediate area will cease and the proper authorities (both historical and police) notified of the finds. Treatment and disposition of the finds will adhere to established protocols of the State Historic Preservation Division and/or the Honolulu Police Department.

6. Traffic

Vehicles carrying workers and material will contribute to traffic on Oli Loop and nearby streets. Material deliveries will be scheduled during non-peak traffic hours to minimize impact on school traffic. As much as practical building materials will be off-loaded at a construction base yard or at the building site.

To minimize traffic impacts during construction, the contractor will:

- Post notices alerting drivers of scheduled work at access ways to the building site;
- Post flagmen for traffic control;
- Schedule work to avoid student drop-off and pick-up times; and
- **Prepare a Construction Management Plan and** coordinate construction work and traffic movement/mitigation with School administrators.

7. Safety

As with any building project worker safety and the safety of persons (children and adults) interfacing with the job site are of paramount importance. The general contractor will

coordinate with School administrators for identifying safe routes for students, workers, and vehicle movement to / from and around / adjoining the building site.

Plywood fencing or dust curtains will be erected around the building site **and along affected residential areas** for dust containment, noise attenuation, and overall safety for school children, staff, and construction workers. Walkways near the building site may be relocated during construction for safety reasons. The contractor and School administrators will collaborate on a safety plan for the duration of construction.

C. Long-term Impacts

Anticipated long-term impacts include but are not limited to:

- Adding an 8,000 square foot structure to the existing building inventory.
- Providing a covered, all-weather, multi-use structure for use as a remote dining area.
- Secondary uses would include a classroom breakout space, performance area, student displays, recreation, and community use.
- Shielding students from inclement weather, the sun, and heat on “hot” days thus providing for their health and safety.
- Reducing available open space by approximately 8,000 square feet.
- Noise should not be “louder” than noise now emanating from children playing on the existing lawn. Noise will not be constant during the school day but occur during lunch service and school functions.
- Post-development storm water runoff quantity is expected to increase due to the increase in impervious roof surfaces. The increase cannot be avoided and the storm water system will be designed for a “net zero increase” in runoff quantity. Runoff will be collected and piped to the underground retention system for ground infiltration and aquifer recharge.
- Energy costs cost will increase but can be mitigated by natural lighting and energy efficient light fixtures/luminaries.
- The structure will present a new object to be seen on campus. At a height of 30’-6” feet it would rise slightly above the adjoining one-story classroom building (Building A) and appear to be about the same height as the two-story classroom building (Building C). Building C is at a lower elevation than the shade structure thus the appearance of similar height.
- Over time, the covered structure will blend with Buildings A, B, and C as part of the building “fabric” for this section of the campus.
- The proposed use will not affect land use controls for the property. County zoning regulations allow public uses and structures as permitted uses in the residential zoning district. Elementary schools are defined as a “public use”. Kanoelani Elementary School is the principal land use for the property and the shade structure is an accessory to the principal use.
- The 30’-6” high structure slightly exceeds the building height for the zoning district. The Department of Education will request a Waiver from the City and County of Honolulu to allow the proposed building height.
- The structure may be made available to community groups and organizations for meetings and associated functions. **School administrators and /or permitting authorities may require a Traffic Management Plan for large group functions (DPP Comment).**

- The project is not anticipated to increase enrollment capacity or student population.
- Regular maintenance and periodic repairs will maintain the useful life of the structure. Repair, renovation, and replacement costs will be funded by the Department of Education.

SECTION 4 ALTERNATIVES TO THE PROPOSED ACTION

A. No Action / Delay the Action

A No Action / Delay the Action alternative will maintain the status quo of the physical environment and preclude the occurrence of all impacts, short and long term, beneficial and adverse disclosed in this Assessment. A No Action alternative will not achieve the stated objectives of the project. Delaying the Action only suspends the project until such time that it can be constructed.

B. Alternative Location

There is no alternative location for the structure on the school campus.

SECTION 5
AGENCIES AND ORGANIZATIONS TO BE CONSULTED
IN THE ENVIRONMENTAL ASSESSMENT PROCESS

*The Draft Environmental Assessment for the Kanoelani Elementary School Shade Structure was published in the Office of Environmental Quality Control Environmental Notice of December 8, 2021. Publication initiated a 30-day public review period ending on January 7, 2022. The Draft Environmental Assessment was distributed to the agencies and organizations listed below requesting comments on the document. An asterisk * identifies agencies and organizations that submitted written comments during the review period. All comment letters and responses are found in Exhibit B.*

Pre-Assessment Consultation and Draft Environmental Assessment Review Period

Melvin and Sandra Lum
Howard and Frances Nonaka
*Federito and Gloria Vinluan
Travis Goto and Melissa Gushiken
Thomas and Jeanne Iwashita
Horie Family Trust

State of Hawaii

Department of Land and Natural Resources
Historic Preservation Division
*Department of Health Clean Air Branch

City and County of Honolulu

*Department of Planning and Permitting

Other

****Gentry Waipio Community Association***
Hawaii Documents Center (Placement)
Hawaiian Electric Company
****Waipahu Neighborhood Board No. 22 (Presentation)***
Pearl City Public Library (***Placement***)
Waipahu Public Library (Placement)

SECTION 6 PERMITS AND APPROVALS

Permits and approvals required for the project and approving authorities are listed below. Additional permits and approvals may be required pending final construction plans.

State of Hawai'i

Department of Health

Variance from Pollution Control (Noise Permit)
Disability and Communications Access Board

Department of Land and Natural Resources

State Historic Preservation Division – Chapter 6E Review

City and County of Honolulu

Board of Water Supply

Department of Planning and Permitting

Grubbing, Grading, and Stockpiling Permit
Building Permit for Building, Electrical, Plumbing, Sidewalk/Driveway and Demolition Work
Waiver (Height and Lot Area)

Honolulu Fire Department

Plan Check

SECTION 7 DETERMINATION OF SIGNIFICANCE

Hawai'i Administrative Rules, Title 11, Department of Health, Chapter 200.1 (Environmental Impact Statement Rules) establishes criteria for determining whether an action may have significant effects on the environment (§11-200.1-13). The relationship of the proposed project to these criteria is discussed below.

- 1) Irrevocably commit a natural, cultural, or historic resource;

Natural, cultural, and historic resources were not observed on the premises. Should site work encounter subsurface deposits work in the immediate area will cease and authorities notified of the finds.

- 2) Curtail the range of beneficial uses of the environment;

The proposed improvements are considered a beneficial use of the open grass lawn. There are no other areas on campus for locating the shade structure in proximity to the school Cafeteria.

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

The project does not conflict with long-term environmental policies, goals, and guidelines of the State of Hawaii.

- 4) Have a substantial adverse effect on the economic welfare, social welfare, or cultural practices of the community and State;

The project will not substantially affect the economic or social welfare of the State.

- 5) Have a substantial adverse effect on public health;

Public health will not be affected. Short-term environmental impacts in the form of fugitive dust, construction noise, and minor erosion can be expected during construction. These impacts can and will be mitigated by measures described in this Assessment.

- 6) Involve adverse secondary impacts, such as population changes or effects on public facilities;

Substantial secondary impacts on public facilities are not anticipated.

- 7) Involve a substantial degradation of environmental quality;

A substantial degradation of environmental quality is not anticipated in the short and long terms.

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

The project does not involve a commitment for larger actions.

- 9) Have a substantial adverse effect on a rare, threatened or endangered species, or its habitat;

Rare, threatened, or endangered flora and fauna are not present on the building site

- 10) Have a substantial adverse effect on air or water quality or ambient noise levels;

Site work is the first major activity and grubbing, grading, and excavation generally result in impacts on air quality, ambient noise levels, and water quality. Construction will generate noise that will be audible in nearby classrooms and adjoining residences and dust that can settle outside the project limits. Site work and building contractors are aware of dust and noise impacts and will comply with air quality and noise regulations of the State Department of Health.

The general contractor will implement measures for controlling erosion and safe guarding water quality during construction and post-construction. Mitigating measures are prescribed in the Rules for Water Quality, Department of Planning and Permitting, City and County of Honolulu.

The general contractor can also implement measures based on experience with similar job sites, site conditions, and recommendations from School administrators.

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

Kanoelani Elementary School is not located in an environmentally sensitive area and this criterion does not apply.

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

Scenic vistas and view planes of Kanoelani Elementary School are not identified in state and county plans. This criterion should not apply.

- 13) Require substantial energy consumption or emit substantial greenhouse gases.

Substantial energy consumption is not anticipated.

REFERENCES

- Department of Design and Construction, City and County of Honolulu. September 2015. *Final Environmental Assessment Honolulu Medical Services Department Central Oahu Ambulance Facility, Waipahu, Island of Oahu, Tax Map Keys: 9-4-122: 103*. Prepared by Environmental Communications, Inc.
- Department of Education, State of Hawai'i. December 2006. *Facilities Inventory System Comprehensive Report – Kanoelani Elementary School*.
- Department of General Planning, City and County of Honolulu. 1992. *General Plan Objectives and Policies*. Amended October 3, 2002, Resolution 02-205, CD 1.
- Department of Land and Natural Resources, Engineering Division. *Flood Hazard Assessment Report*. November 2014. Community Panel No. 15003C0236G. Effective Date January 19, 2011.
- Department of Parks and Recreation, City and County of Honolulu. April 197. *Index of O'ahu Parks and Facilities*.
- Department of Planning and Permitting, City and County of Honolulu. December 2008. *Land Use Ordinance*. Ordinance No. 86-96 as Amended.
- Department of Planning and Permitting, City and County of Honolulu. February 2021. *Central Oahu Sustainable Communities Plan*. Ordinance 21-06
- Mink, John F. and L. Stephen Lau. February 1990 Revised. *Aquifer Identification and Classification for O'ahu: Groundwater Protection Strategy for Hawai'i*. Water Resources Research Center, University of Hawaii at Manoa.
- Park, Gerald Urban Planner. February 2021. *Site Investigation*.
- Personal Communication. March 2021. Neil Blomberg, Vice-Principal, Kanoelani Elementary School.
- U.S. Department of Agriculture, Soil Conservation Service. 1972. *Soil Survey Report for Islands of Kauai, O'ahu, Maui, Molokai, and Lanai, State of Hawai'i*. In Cooperation with the University of Hawai'i Agricultural Experiment Station.
- Whitespace Architects. 2021. *Kanoelani Elementary School Cafeteria Renovation Expansion*. Prepared for Department of Education, State of Hawai'i.

EXHIBIT A

ENVIRONMENTAL ASSESSMENT COMMENTS AND RESPONSES

Gerald Park

From: Cab General <Cab.General@doh.hawaii.gov>
Sent: Friday, January 7, 2022 12:58 PM
To: william.george@k12.hi.us; gpark@gpup.biz
Subject: Kanoelani Elementary School Shade Structure--Draft EA (AFNSI)

Aloha

Thank you for the opportunity to provide comments on the subject project.
Please see our standard comments at:

<https://health.hawaii.gov/cab/files/2019/08/Standard-Comments-Clean-Air-Branch-2019.pdf>

Please let me know if you have any Questions

Lisa M.M. Wallace
EHS QA Officer
Clean Air Branch
Environmental Health Office
Hilo, Hawaii 96720

**Standard Comments for Land Use Reviews
Clean Air Branch
Hawaii State Department of Health**

If your proposed project:

Requires an Air Pollution Control Permit

You must obtain an air pollution control permit from the Clean Air Branch and comply with all applicable conditions and requirements. If you do not know if you need an air pollution control permit, please contact the Permitting Section of the Clean Air Branch.

Includes construction or demolition activities that involve asbestos

You must contact the Asbestos Abatement Office in the Indoor and Radiological Health Branch.

Has the potential to generate fugitive dust

You must control the generation of all airborne, visible fugitive dust. Note that construction activities that occur near to existing residences, business, public areas and major thoroughfares exacerbate potential dust concerns. It is recommended that a dust control management plan be developed which identifies and mitigates all activities that may generate airborne, visible fugitive dust. The plan, which does *not* require Department of Health approval, should help you recognize and minimize potential airborne, visible fugitive dust problems.

Construction activities must comply with the provisions of Hawaii Administrative Rules, §11-60.1-33 on Fugitive Dust. In addition, for cases involving mixed land use, we strongly recommend that buffer zones be established, wherever possible, in order to alleviate potential nuisance complaints.

You should provide reasonable measures to control airborne, visible fugitive dust from the road areas and during the various phases of construction. These measures include, but are not limited to, the following:

- a) Planning the different phases of construction, focusing on minimizing the amount of airborne, visible fugitive dust-generating materials and activities, centralizing on-site vehicular traffic routes, and locating potential dust-generating equipment in areas of the least impact;
- b) Providing an adequate water source at the site prior to start-up of construction activities;
- c) Landscaping and providing rapid covering of bare areas, including slopes, starting from the initial grading phase;
- d) Minimizing airborne, visible fugitive dust from shoulders and access roads;
- e) Providing reasonable dust control measures during weekends, after hours, and prior to daily start-up of construction activities; and
- f) Controlling airborne, visible fugitive dust from debris being hauled away from the project site.

If you have questions about fugitive dust, please contact the Enforcement Section of the Clean Air Branch

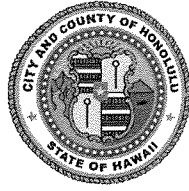
Clean Air Branch (808) 586-4200 cab@doh.hawaii.gov	Indoor Radiological Health Branch (808) 586-4700
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April 1, 2019

DEPARTMENT OF PLANNING AND PERMITTING
CITY AND COUNTY OF HONOLULU

650 SOUTH KING STREET, 7TH FLOOR • HONOLULU, HAWAII 96813
PHONE: (808) 768-8000 • FAX: (808) 768-6041
DEPT. WEB SITE: www.honolulu.gov/dpp • CITY WEB SITE: www.honolulu.gov

RICK BLANGIARDI
MAYOR



DEAN UCHIDA
DIRECTOR

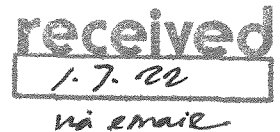
DAWN TAKEUCHI APUNA
DEPUTY DIRECTOR

EUGENE H. TAKAHASHI
DEPUTY DIRECTOR

January 7, 2022

2021/ELOG-2574 (Ili)
2129410

Mr. Gerald Park
Gerald Park Urban Planner
95-595 Kanamee Street, Number 324
Mililani, Hawaii 96789-1431



Dear Mr. Park:

SUBJECT: Draft Environmental Assessment (EA) and Anticipated Finding of
No Significant Impact (AFONSI)
Kanoelani Elementary School Shade Structure
Tax Map Key 9-4-115: 023
Waipio, Oahu, Hawaii

Thank you for your letter dated December 8, 2021, notifying us of the availability of the above Draft EA and AFONSI.

We have reviewed the document and have the following comments:

1. The EA should discuss how the proposed Kanoelani Elementary School Shade Structure (project) fulfills the objectives and policies of the recently revised Oahu General Plan (Resolution 21-23, CD1).
2. The EA should discuss how the proposed project aligns with the objectives and policies of the revised Central Oahu Sustainable Communities Plan (Ordinance 21-6).
3. Pursuant to the City and County of Honolulu Directive No. 18-2, the EA should include an analysis of Low Impact Development and conservation best management practices that may help mitigate elevated temperatures and evapotranspiration on the project site. A suitable analysis may consider for example green or cool roof(s), opportunities for permeable paving or reduced hardscape, on-site storm water retention and/or filtration, shade trees, and water/energy conservation measures.

4. The EA should describe how the project will comply with the prevailing soil erosion and storm water quality standards (“Rules Relating to Water Quality”).
5. A time line or phasing plan of the anticipated dates to obtain major building permit(s) for demolition/construction work, including the projected completion dates, should be disclosed. The time line should identify when the construction management plan (CMP) and the traffic management plan (TMP) will be submitted for review and approval. Typically, the CMP should be submitted for review and approval prior to the issuance of demolition/building permits for major construction work. The TMP or subsequent updates should be submitted and approved prior to the issuance of the (temporary) certificate of occupancy.
6. The CMP should identify the type, frequency and routing of heavy trucks and construction related vehicles. The CMP should also explain how construction vehicles will access the project site from Oli Loop. Describe efforts to be made to minimize impacts from these vehicles and related construction activities. The CMP should identify and limit vehicular activity related to construction to periods outside of the peak periods of traffic, utilizing alternate routes for heavy trucks, provisions for either on-site or off-site staging areas for construction related workers and vehicles to limit the use of on-street parking around the project site and other mitigation measures related to traffic and potential neighborhood impacts. The applicant shall document the condition of roadways prior to the start of construction activities and provide remedial measures, as necessary, such as restriping, road resurfacing and/or reconstruction, if the condition of the roadways has deteriorated as a result of the related construction activities.
7. A TMP should be provided for large events, such as holiday school plays, movie nights, community fairs, etc., and community groups and organization meetings and associated functions that would utilize the proposed stage and shaded structure. This TMP should provide off-site parking locations should the on-site parking reach capacity. Police officers should be stationed at Kanoelani Elementary School driveways to help manage traffic. The TMP should have different strategies and circulation plans based on the size and timing of such large events. This TMP shall include traffic demand management (TDM) strategies to minimize the amount of vehicular trips. TDM strategies could include carpooling and ride sharing programs and other similar TDM measures. The TMP should be prepared prior to the issuance of the (temporary) certificate of occupancy and the TDM strategies should be in place when the structure is ready to open.

Mr. Gerald Park
January 7, 2022
Page 3

8. As much as possible, the EA should describe project and operational details such as those described above.
9. Section 3.C. on Long Term Impacts should describe the possibility of increased noise and traffic during after school and weekend hours for adjacent residential neighbors due to the community use of the new structure.

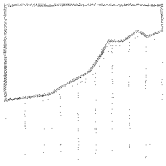
Should you have any questions, please contact Lisa Leonillo Imata at (808) 768-8041 or lisa.imata@honolulu.gov, or Lin Wong at (808) 768-8018 or lwong@honolulu.gov.

Very truly yours,



Dina L.T. Wong
Chief
Planning Division

DLTW:tc



GERALD PARK
Urban Planner

Education

Urban Planning
Research

Environmental
Studies

95-525 Kanoelani St
#121
Māhala, Hawai'i
96739

Telephone:
(808) 625-7670
Email:
gerald@geraldp.com

February 28, 2022

Dean Uchida, Director
Department of Planning and Permitting
City and County of Honolulu
650 S. King Street, 7th Floor
Honolulu, HI 96813

Dear Director Uchida:

Subject: Kanoelani Elementary School Shade Structure
Tax Map Key: [1] 9-4-115: 023
Waipio, O'ahu, Hawai'i
2021/ELOG-2574-(Ili)

Thank you for reviewing and commenting on the Draft Environmental Assessment prepared for the Subject project. We offer the responses below in the order your comments were presented.

1. O'ahu General Plan

A discussion of the relationship of the project to the O'ahu General Plan was not provided because the Oahu General Plan was not approved when the Draft Environmental Assessment was in preparation and subsequently published (December 8, 2021).

The Final Environmental Assessment will include a statement that the project supports the educational policy to:

"Encourage the after hours use of school buildings, grounds, and facilities."

An after school program currently operates at Kanoelani Elementary School.

2. Central Oahu Sustainable Communities Plan (COSCP)

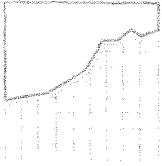
The objectives for the Education component of the COSCP--- Project Review and Approval Assessment and Fair Share Provisions---do not apply to the project because Kanoelani Elementary School is an existing public school.

The school already allows community use of certain facilities. In addition the school is adjacent to Waipio Neighborhood Park and uses the park for some of its school activities.

3. Low Impact Development

An analysis of Low Impact Development was not in the scope of work for the environmental assessment.

An underground storm water retention system for collecting roof runoff from the



Dean Uchida
February 28, 2022
Page 2

shade structure will be constructed. The system was described in the Environmental Assessment.

4. Rules Relating to Water Quality

As disclosed in the environmental assessment site work will comply with the Rules Relating to Water Quality. Specific mitigating measures will be recommended in an Erosion Control Plan that could be modified by the site work contractor based on site conditions, experience with similar scale projects, and providing for the safety and health for school children and workers.

5. Phasing Plan

Environmental Assessments are prepared early on in the planning and design stage of any project thus a timeline or phasing plan for the various documents mentioned in this comment has not been established. The construction start time and duration of construction has been revised to January 2023 and 18 months, respectively.

Construction Management and Traffic Management Plans have not been prepared as of the date of this assessment. Said plans will be prepared after the selection of a general contractor and in consultation with the DOE and school administrators.

- 6. Construction Management Plan
- 7. Traffic Management Plan
- 8. Project and Operational Details

See Comment/Response 5.

9. Long-term Impacts

The possibility of noise and traffic affecting adjacent residential neighbors can occur. Noise is not anticipated to be "louder" than noise on a typical school day. Depending on the type of function school administrators can request a Traffic Control Plan with appropriate mitigating measures as grounds for approving use of the facility.

Thank you for participating in the environmental assessment review process.

Sincerely,

GERALD PARK URBAN PLANNER

Gerald Park, Principal

c: W. George, HIDEOE

Gerald Park

From: Gloria Vinluan <gavinluan@yahoo.com>
Sent: Saturday, January 8, 2022 5:45 PM
To: Gerald Park
Subject: Re: Kanoelani ES

Aloha Mr. Park,

Our concerns are as follows:

- 1) What is the possibility of the stormwater detention system overflowing into the residential areas, in the event of extremely heavy rainfall, storms, etc.? How is this issue being addressed?
- 2) Will plywood fencing, dust curtains, etc. be erected along the affected residential areas, such as along the back fencing of the affected residents?

Mahalo,
Gloria Vinluan

On Monday, December 6, 2021, 12:58:46 PM HST, Gerald Park <gpark@gpup.biz> wrote:

Gloria,

Will mail copy to the association. Thank you for the contact information.

Gerald

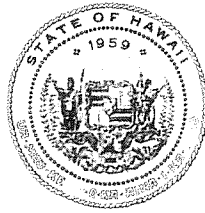
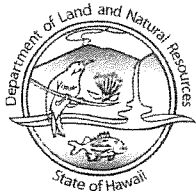
From: Gloria Vinluan <gavinluan@yahoo.com>
Sent: Monday, December 6, 2021 12:00 PM
To: Gerald Park <gpark@gpup.biz>
Subject: Re: Kanoelani ES

Good morning Mr. Park,

Thank you for your email.

We look forward to the draft environmental assessment. I would like to request that a copy be also mailed to the association. Their address is: Gentry Waipio Community Association, 94-1036 Waipio Uka St., Suite 108, Waipahu, HI 96797.

DAVID Y. IGE
GOVERNOR OF HAWAII



STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES

STATE HISTORIC PRESERVATION DIVISION
KAKUHIHEWA BUILDING
601 KAMOKILA BLVD, STE 555
KAPOLEI, HAWAII 96707

SUZANNE D. CASE
CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT

ROBERT K. MASUDA
FIRST DEPUTY

M. KALEO MANUEL
DEPUTY DIRECTOR - WATER

AQUATIC RESOURCES
BOATING AND OCEAN RECREATION
BUREAU OF CONVEYANCES
COMMISSION ON WATER RESOURCE MANAGEMENT
CONSERVATION AND COASTAL LANDS
CONSERVATION AND RESOURCES ENFORCEMENT
ENGINEERING
FORESTRY AND WILDLIFE
HISTORIC PRESERVATION
KAHOOLAWE ISLAND RESERVE COMMISSION
LAND
STATE PARKS

TO: Public, Consulting Parties. Federal, State and City Agencies

FROM: Alan S. Downer, Administrator ^{AD}

RE: SHPD Migration of Submittals to the Hawaii Cultural Resource Information System (HICRIS)

DATE: November 30, 2020

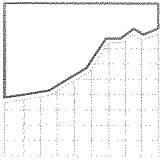
Aloha,

The State of Hawaii Historic Preservation Division is in the process of moving to an online submission system. The Hawaii Cultural Resource Information System (HICRIS) will be the only way for SHPD to accept and process submittals. We are not accepting submissions currently, while we migrate the data from our existing systems to HICRIS. The transition period is from November 28 to December 16, 2020. Additional information on HICRIS and the launch date can be found on our website. <http://dlnr.hawaii.gov/shpd/>

Mahalo,

Alan Downer

Alan S. Downer, Administrator



GERALD PARK
Urban Planner

■
Planning

Land Use
Research

Environmental
Studies

■
95 595 Kamehame St
#324
Mililani, Hawaii
96789

■
Telephone:
(808) 625-9626

e-mail:
gpark@gpup.biz

December 8, 2021

Alan Downer, Administrator
State Historic Preservation Division
Department of Land and Natural Resources
State of Hawai'i
601 Kamokila Boulevard, Room 555
Kapolei, HI 96707

2021 DEC 10 A 9:13

Dear Mr. Downer:

Subject: Covered Shade Structure and Drainage Improvements
Kaneoelani Elementary School
Tax Map Key: [1] 9-4-115: 003
94-1091 Oli Loop
Waipi'o, District of 'Ewa, O'ahu

We have prepared a Draft Environmental Assessment for the proposed Kaneoelani Elementary School Covered Shade Structure and Drainage Improvements. The project may be of interest to the State Historic Preservation Division and your comments will aid in compiling a thorough environmental assessment. A Portable Document Format of the Draft Environmental Assessment is enclosed. The document also can be viewed on-line at http://oeqc2.doh.hawaii.gov/Doc_Library/2021-12-08-OA-DEA-Kaneoelani-Elementary-School-Shade-Structure.pdf

We would appreciate receiving written or e-mailed comments by January 8, 2022.

Should you have any questions, I can be contacted at (808) 625-9626 or e-mail at gpark@gpup.biz. Mr. William George, project coordinator for the Department of Education can be contacted at (808) 768-5125 or e-mail at william.george@k12.hi.us.

Sincerely,

GERALD PARK URBAN PLANNER

Gerald Park
Principal

Enclosure: As Noted

c: W. George, DOE-FDB

Gerald Park

From: Glen Suzuki <glens@hawaiianprop.com>
Sent: Saturday, January 8, 2022 11:13 AM
To: gpark@gpup.biz
Subject: Gentry Waipio Community - Kaneolani Elementary School

Hi Mr. Park,

Thank you for sending the information regarding the improvements to Kaneolani Elementary School. I apologize for replying back to you on the deadline date to submit comments, but I was wondering if it would be possible to send comments to you from the Gentry Waipio Community Board after January 19? The reason is the Board has a meeting scheduled for that day and I will be able to speak with the Board during this meeting about the improvements.

The other option is if you are able to email the information I can try and forward this to the Board via email before the meeting so they can send me comments prior to the 19th.

Thank you,

Glen Suzuki AMS®, PCAM®
Asst. Vice President/Sr. Property Manager

Phone: 808-539-9772
Fax: 808-521-2714
E-mail: glens@hawaiianprop.com

Front Desk: 539-9777



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Phone: 808-539-9772
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Gerald Park

From: Glen Suzuki <glens@hawaiianprop.com>
Sent: Thursday, February 17, 2022 11:30 AM
To: Gerald Park
Subject: Gentry Waipio Community - Kaneolani Elementary

Hi Gerald,

I apologize I did not email you sooner but the Board of Directors reviewed the information regarding the Kaneolani Elementary improvements and they had no comments.

Thank you,

Glen Suzuki AMS®, PCAM®
Asst. Vice President/Sr. Property Manager

Phone: 808-539-9772
Fax: 808-521-2714
E-mail: glens@hawaiianprop.com

Front Desk: 539-9777



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Waipahu Neighborhood Board No. 22

January 2022 Minutes

REGULAR BOARD MEETING MINUTES **THURSDAY, JANUARY 27, 2022 VIRTUAL VIA WEBEX**

CALL TO ORDER – Chair Chun called the meeting to order at 7:03 p.m. A quorum was established with 10 members present. Note: This 19-member Board requires 10 members to establish a quorum and to take official Board action.

Board Members Present – Maureen Andrade (logged in 7:35 p.m.), Jayton Chang, Cory Chun, Connie Herolaga, Richard Oshiro, Matthew Weyer, Cody Rex, Sandi Yorong, Valerie Fajotina, Rachele Lamosao, Kezzo Jet Pacanuayan, Coran Kekipi (logged in 8:03 p.m.), and Joshua Ching (appointed).

Board Members Absent – Manuel Mattos, Darryl Macha, Rustean Cullen-Utu, David Enriquez, and Josiah Korla.

Guests – Sergeant Chase Inamine (Honolulu Police Department-HPD), Director Roger Babcock, Department of Environmental Services - ENV (Mayor Rick Blangiardi's Representative), Colonel Erik Hilbert, Rick Black, Alison Martinez (Military Services-599th Army Transportation Brigade), Darrell Young, Director Anton Krucky (Department of Community Services-DCS), Director Trish La Chica (Office of Housing-HOU), Deputy Director Morris Atta, Department of Agriculture - HDOA (Governor David Ige's Representatives), Councilmember Augie Tulba, Aaron Ho (Councilmember Augie Tulba's Office), Councilmember Brandon Elefante, Dion Mesta

[GO TO TOP](#)

2. Sources: Board member Fajotina asked, and Rodman noted there are different wells all over the island and any one can refer to their water quality report which is available on their website.

Honolulu Authority for Rapid Transit (HART) – Johnny Reid gave the weekly e-blast report which can be found at www.honolulutransit.org and took questions.

Questions, comments, concerns: Safety Concerns: Board member Yorong asked, and Reid noted there are screen gates at the stations, and it is not possible for an incident like what happened in New York to happen here. Reid noted it takes approximately 5 to 11 minutes between stations and there are multiple cameras on the trains and the stations which is monitored by staff to prevent crime and keep the passengers safe.

Oahu Metropolitan Planning Organization (OMPO) – Board member Weyer noted the next virtual meeting will be on Wednesday, February 2, 2022 from 2:00 – 3:00 p.m. Please visit their website for more information.

Storm Water Utility Project – Board member Weyer noted information can be found on the website: www.stormaterutility.org

Reports of Board Member Attendance at Other Meetings – None.

BOARD BUSINESS

Approval of the Thursday, November 17, 2021, Regular Meeting Minutes – Weyer moved and Chang seconded the motion to approve the Thursday, November 17, 2021 regular meeting minutes as presented. The motion passed by unanimous consent 12-0-0 (Aye: Andrade, Chang, Chun, Fajotina, Herolaga, Kekipi, Lamosao, Oshiro, Pacanuayan, Rex, Yorong, Weyer; Nay: none; Abstain: none.)

Treasurer's Report – Treasurer Chang reported a balance of \$237.95

Chair's Report – none

Three Absence Letter for Manuel Mattos – Chair Chun noted Member Mattos reached out to say that he has a hard time attending virtual meetings but wants to continue as a board member. Hearing no objection, No action taken.

PRESENTATIONS

AT&T Small Cell Installations in Waipahu – Tami Pritchard, J5 Infrastructure noted she was not ready to make the presentation tonight.

Kanoelani Elementary School Improvements – Elyse Takashige and Laura Ayers from White Space Architects gave a power point presentation regarding the cafeteria expansion at the elementary school. Ayers noted the school was built for 400 students but presently there are closer to 800 which forced the school to have three (3) lunch periods. This project will expand the cafeteria, the serving kitchen and build a new open air shade structure to provide more seating for students. Ayers noted they will have to remove some trees to build a new retention basin but will replace those trees with appropriate landscaping. The project is scheduled to go out to bid in summer 2022 with start of construction for the end of 2022 and completion of the construction portion in mid to late 2023.

Questions, comments, concerns: Culturally Appropriate: Board member Fajotina asked if the Department of Education would consider more culturally appropriate architecture when designing new buildings.

ANNOUNCEMENTS – The next board meeting will be held on Thursday, February 24, 2022 at 7:00 p.m. virtually due to pandemic restrictions. Chair Chun noted the affordable housing presentation will be presented at the next meeting.

ADJOURNMENT - The meeting adjourned at 9:27 p.m.

Submitted by: Naomi Hanohano, Community Relations Specialist

Reviewed by: Judi-Ann Smith-Kauhane, Neighborhood Assistant

Last Updated: 18 February 2022

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