



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

OFFICE OF SCHOOL FACILITIES AND SUPPORT SERVICES

April 4, 2016

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OCT 09 2016

OFFICE OF ENVIRONMENTAL  
QUALITY CONTROL

16 SEP 23 AM 05:59

RECEIVED

TO: Scott Glenn  
Interim Director, Office of Environmental Quality Control

FROM: Duane Y. Kashiwai  
Public Works Administrator, Facilities Development Branch *DK*

SUBJECT: **Draft Environmental Assessment for Kalani High School Proposed  
Girl's Athletic Locker Room, Honolulu District, Island of Oahu,  
TMK (1) 3-5-020:004**

The State of Hawaii, Department of Education hereby transmits the Draft Environmental Assessment and Anticipate Finding of No Significant Impact (DEA-AFONSI) for the Kalani High School Girl's Locker Room, Honolulu District, Island of Oahu, TMK (1) 3-5-020:004 for publication in the next available edition of The Environmental Notice.

Enclosed is a completed OEQC Publication Form, two copies of the DEA-AFONSI, an Adobe Acrobat PDF file of the same, and an electronic copy of the publication form in MS Word.

Should you have any questions, please contact Arnold Fukunaga, AIA, Project Coordinator of the Facilities Development Branch, at 586-0440 or e-mail at [arnold\\_fukunaga@notes.k12.hi.us](mailto:arnold_fukunaga@notes.k12.hi.us).

Thank you.

DYK:dw  
Attachments

c: Facilities Development Branch

17-123

**AGENCY**  
**PUBLICATION FORM**

OCT 08 2016

Project Name:	Kalani High School Girl's Athletic Locker Room Building
Project Short Name:	Kalani High School Girl's Athletic Locker Room
HRS §343-5 Trigger(s):	Use of County land and State funds
Island(s):	Oahu
Judicial District(s):	Honolulu
TMK(s):	(1) 3-5-020:004
Permit(s)/Approval(s):	Dept. of Health Individual Wastewater System, Disability and Communications Access Board, State Historic Preservation Division, Dept. of Planning and Permitting Grading, Sitework, and Building Permits
Proposing/Determining Agency:	State of Hawai'i Department of Education
<i>Contact Name, Email, Telephone, Address</i>	State of Hawai'i Department of Education Facilities Development Branch Project Management Section Kalanimoku Building, Room 431 1151 Punchbowl Street Honolulu, HI 96813 Contact: Arnold Fukunaga, AIA Phone: (808) 586-0440 Email: <a href="mailto:Arnold_Fukunaga/FacilDev/HIDOE@notes.k12.hi.us">Arnold_Fukunaga/FacilDev/HIDOE@notes.k12.hi.us</a>
Accepting Authority:	(for EIS submittals only)
<i>Contact Name, Email, Telephone, Address</i>	
Consultant:	PlanPacific, Inc.
<i>Contact Name, Email, Telephone, Address</i>	PlanPacific, Inc. P.O. Box 892735 Mililani, HI 96789 Contact: Lisa Leonillo Imata Email: <a href="mailto:limata@planpacific.com">limata@planpacific.com</a> Phone: (808) 521-9418

**Status (select one)** DEA-AFNSI FEA-FONSI FEA-EISPN Act 172-12 EISPN  
("Direct to EIS") DEIS FEIS**Submittal Requirements**

Submit 1) the proposing agency notice of determination/transmittal letter on agency letterhead, 2) this completed OEQC publication form as a Word file, 3) a hard copy of the DEA, and 4) a searchable PDF of the DEA; a 30-day comment period follows from the date of publication in the Notice.

Submit 1) the proposing agency notice of determination/transmittal letter on agency letterhead, 2) this completed OEQC publication form as a Word file, 3) a hard copy of the FEA, and 4) a searchable PDF of the FEA; no comment period follows from publication in the Notice.

Submit 1) the proposing agency notice of determination/transmittal letter on agency letterhead, 2) this completed OEQC publication form as a Word file, 3) a hard copy of the FEA, and 4) a searchable PDF of the FEA; a 30-day comment period follows from the date of publication in the Notice.

Submit 1) the proposing agency notice of determination letter on agency letterhead and 2) this completed OEQC publication form as a Word file; no EA is required and a 30-day comment period follows from the date of publication in the Notice.

Submit 1) a transmittal letter to the OEQC and to the accepting authority, 2) this completed OEQC publication form as a Word file, 3) a hard copy of the DEIS, 4) a searchable PDF of the DEIS, and 5) a searchable PDF of the distribution list; a 45-day comment period follows from the date of publication in the Notice.

Submit 1) a transmittal letter to the OEQC and to the accepting authority, 2) this completed OEQC

publication form as a Word file, 3) a hard copy of the FEIS, 4) a searchable PDF of the FEIS, and 5) a searchable PDF of the distribution list; no comment period follows from publication in the Notice.

FEIS Acceptance Determination The accepting authority simultaneously transmits to both the OEQC and the proposing agency a letter of its determination of acceptance or nonacceptance (pursuant to Section 11-200-23, HAR) of the FEIS; no comment period ensues upon publication in the Notice.

FEIS Statutory Acceptance Timely statutory acceptance of the FEIS under Section 343-5(c), HRS, is not applicable to agency actions.

Supplemental EIS Determination The accepting authority simultaneously transmits its notice to both the proposing agency and the OEQC that it has reviewed (pursuant to Section 11-200-27, HAR) the previously accepted FEIS and determines that a supplemental EIS is or is not required; no EA is required and no comment period ensues upon publication in the Notice.

Withdrawal Identify the specific document(s) to withdraw and explain in the project summary section.

Other Contact the OEQC if your action is not one of the above items.

**Project Summary**

Modernize the Kalani High School campus with construction of a new Girl's Athletic Locker Room building, a new Judo/Wrestling building, and renovation of the existing Girl's P.E. Locker/Shower Area. An additive alternative to demolish the existing field restrooms and construct a new field restroom building is included. This project will address gender inequality in athletic facilities as well as substandard building area conditions.

# KALANI HIGH SCHOOL GIRL'S ATHLETIC LOCKER ROOM



## DRAFT ENVIRONMENTAL ASSESSMENT

State of Hawai'i Department of Education

DOE Job No. Q25001-12

Honolulu, Hawai'i

TMK: 3-5-20:004

March 2016 (Revised)

KALANI HIGH SCHOOL  
GIRL'S ATHLETIC LOCKER ROOM

**DRAFT ENVIRONMENTAL ASSESSMENT**

**State of Hawai'i Department of Education**

**DOE Job No. Q25001-12**

**Honolulu, Hawai'i**

**TMK: 3-5-20:004**

**Prepared For Ferraro Choi and Associates**

**Prepared By PlanPacific, Inc.**

March 2016 (Revised)

This document is prepared pursuant to:

The Hawai'i Environmental Policy Act, Chapter 343, Hawai'i Revised Statutes and  
Title 11, Chapter 200, Hawai'i Department of Health Administrative Rules.

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## LIST OF ACRONYMS

BMP	Best Management Practices
DLNR	Department of Land & Natural Resources, State of Hawai'i
DOE	Department of Education, State of Hawai'i
DOH	Department of Health, State of Hawai'i
EA	Environmental Assessment
EDSPECS	Educational Specifications (Department of Education)
EIS	Environmental Impact Statement
FADS	Facilities Assessment and Development Schedule (Department of Education)
FEMA	Federal Emergency Management Agency
FIRM	Flood Insurance Rate Map
FONSI	Finding of No Significant Impact
HAR	Hawai'i Administrative Rules
HECO	Hawaiian Electric Company
HFD	Honolulu Fire Department
HPD	Honolulu Police Department
HRS	Hawai'i Revised Statutes
HVAC	Heating, Ventilation, and Air Conditioning
LEED	Leadership in Energy and Environment Design
NAAQS	National Ambient Air Quality Standards
NPDES	National Pollutant Discharge Elimination System
SHPD	State Historic Preservation Division
SMA	Special Management Area
TMK	Tax Map Key

# 1. PROJECT SUMMARY

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**Proposed Action:** Modernize the Kalani High School athletic facilities by constructing a new girl's athletic locker room building, judo/wrestling building, open lanai, and renovating the existing physical education (P.E.) girl's lockers/showers.

This project also includes an option to construct a new field restroom to replace an existing portable restroom building.

The project is to be located on the existing Kalani High School campus, located along Kalaniana'ole Highway in Honolulu, TMK 3-5-20:004. No land expansion is proposed.

**Property:** 4680 Kalaniana'ole Highway, Honolulu, HI 96821  
TMK: (1) 3-5-20:004  
Total Area: 23.609 acres

**Owner/Applicant:** State of Hawai'i

**Approving Agency:** State of Hawai'i, Department of Education,  
Planning Section

**State Land Uses:** Urban

**Zoning Districts:** R-7.5 Residential

**Sustainable Community Plan**

**Area:** East Honolulu

**Special Management Area:** Outside

**Required Permits/Approvals:** State Dept. of Health  
– Individual Wastewater System  
– Disability and Communications Access Board  
State Dept. of Land and Natural Resources  
– Historic Preservation Division Approval for grading  
County Dept. of Planning and Permitting  
– Sitework  
– Grading, Grubbing, and Stockpiling  
– Building  
Honolulu Fire Department  
– Fire Fighting Access and Water Availability

**HRS, Chapter 343 Action:** Use of County land and State funds

**Anticipated Determination:** Finding of No Significant Impact (FONSI)

**Consulted Agencies:** State of Hawai'i Department of Education, Honolulu Board of Water Supply, Honolulu Fire Department, and Hawaiian Electric Company

## **2. DESCRIPTION OF THE PROPOSED ACTION**

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### **2.1. OVERVIEW OF THE PROPOSED ACTION**

Kalani High School is a public school belonging to the State of Hawai'i Department of Education's (DOE) system. The school began serving the Waialae-Kahala suburbs, in which it is located, in 1958. The school serves students in grades 9 through 12. The school's population during the 2014-2015 school year was approximately 1,277 students. Today, the school serves the Niu Valley, Aina Haina, Aina Koa, Maunalani Heights, Waialae-Kahala, Kahala, and portions of the Kaimuki neighborhoods. In 2014, Kalani High School was recognized as the #1 public school in the State of Hawai'i by the *U.S. News and World Report*.

Kalani High School is located along the north or mauka side of Kalaniana'ole Highway, which runs east/west, at the north east corner of the Kalaniana'ole Highway/Kalaniiki Street intersection. The street address for Kalani High School is 4860 Kalaniana'ole Highway. The tax map key parcel on which the high school campus is located is identified as (1) 3-5-020: 004. See Figure 1. The total acreage of the lot and campus is 23.609.

The proposed project includes new construction of a girl's athletic locker room building, a judo/wrestling building, an open lanai, and renovation of the existing girl's physical education (P.E.) lockers/showers. Construction of a field restroom is also an option under the proposed project, subject to funding. The new construction and renovation will be located on this parcel only, except for related utility connections.

Planning for a future weight training building and a covered lanai has also been considered.

The proposed project contributes to improving gender equity for athletic facilities, updates the campus that was built in 1958, and helps the school meet current physical education and athletics-related classroom space standards. The proposed project also separates the boy's and girl's locker/shower room spaces into separate buildings. The future weight training facility would further help the school meet current education facility standards and needs.

This environmental assessment is required because the project involves government-owned land and funding.

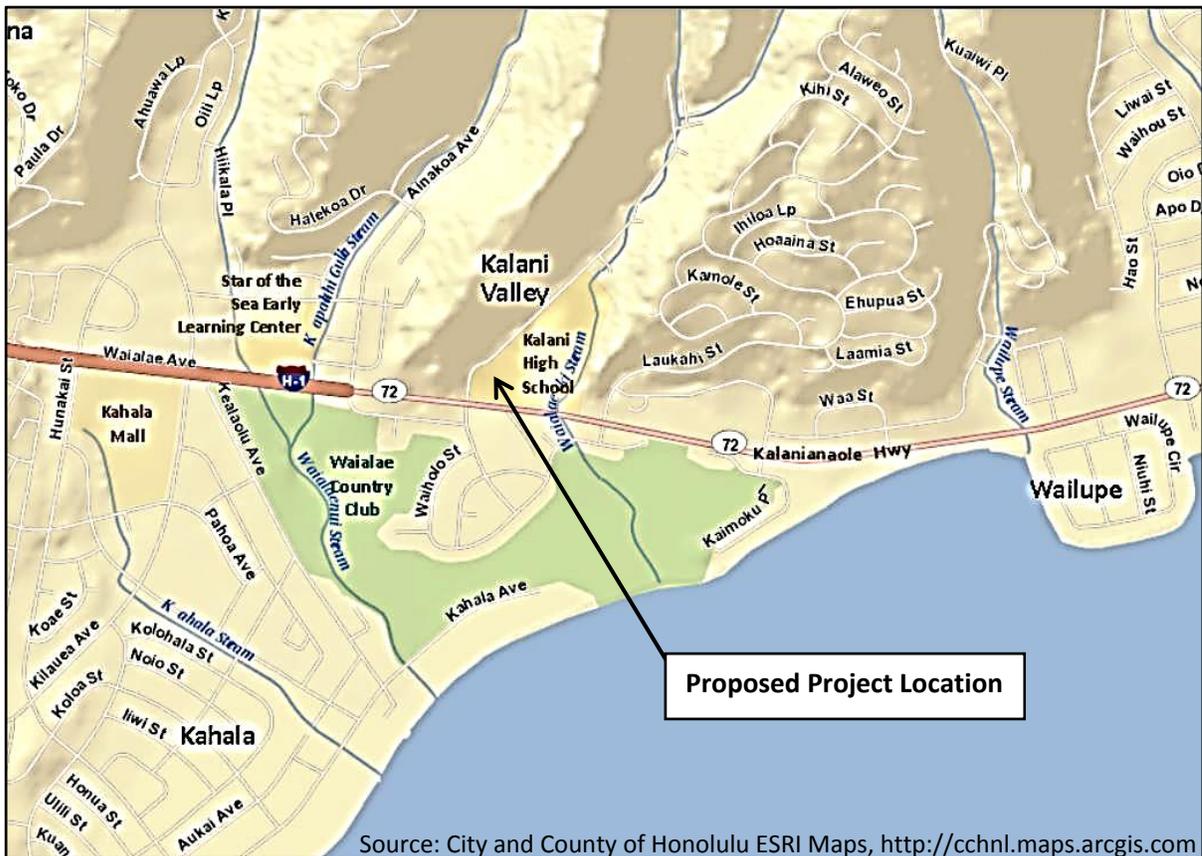


Figure 1: Location Map



## **2.2. PROJECT LOCATION AND SITE DESCRIPTION**

The Kalani High School campus, TMK (1) 3-5-020:004, is located on the southeast section of the Island of O'ahu, between Diamond Head and Hanauma Bay. It is just north of the Waialae Country Club and roughly 0.5 mile from the southern coastal shoreline. The campus sits on the northeast corner of the intersection of Kalaniana'ole Highway and Kalaniiki Street. Vehicular ingress and egress to the campus is from Kalaniiki Street. There exists an access road from Kalaniana'ole Highway, but it is only a one-way ingress for vehicles coming from the east. In general, the terrain slopes up to the north.

The project area for the new Girl's Athletic Locker Room is in the southern portion of the campus between the existing athletic track and field and gymnasium. See Figure 2. The project area currently contains a roadway around the track (portion of roadway to be removed), a restroom building, a walkway, and vegetation.

The new Judo/Wrestling Facility will be located near the Girl's Athletic Locker Room. Figure 2 shows the shaded cluster between the existing gymnasium and track and field. The cluster consists of the three facilities connected by the central covered lanai. The Girl's Athletic Locker Room is the easternmost building.

The future Weight Training building and covered lanai structure will be located adjacent to the Judo/Wrestling building.

The existing girl's P.E. locker/shower room to be renovated is located to the southeast of the proposed new Girl's Athletic Locker Room. It is located south of the existing pool and east of the existing track and field. See Figure 2.

The campus is immediately surrounded by a few single-family residential homes to the north and south. There is a single line of homes lining the west edge of Kalaniiki Street

and a drainage canal/stream on the east edge of the campus. Beyond the drainage canal/stream to the east is an electrical transformer, more homes, and Waialae Iki Neighborhood Park. In general, the area is characteristically suburban with low-rise, low-density buildings in a natural setting bound on the north by the undeveloped southern foothills of the Ko'olau Mountain Range and on the south by the coastline and Pacific Ocean.

The campus is in the East Honolulu Sustainable Plan Area of the City and County of Honolulu.

### **2.3. PROJECT DESCRIPTION**

#### **Girl's Athletic Locker Room Building, Judo/Wrestling Building, and Renovation of the Existing Girl's P.E. Locker/Shower Room**

There is currently no girl's athletic locker room at Kalani High School. This project proposes to modernize the Kalani High School's athletic facilities and address gender inequality by constructing a new girl's athletic facility that will be properly equipped for locker space, storage, restrooms, and shower rooms. The project also adds a trainer's room to update the facility, and field storage that is currently accommodated in re-purposed containers.

Components of the new Girl's Athletic Locker Room are as follows:

##### *Main Areas*

- Coach's Office
- Locker/Shower/Toilet
- Locker Room/Meeting Area
- Toilet Area
- Shower/Drying Room
- Janitorial Closet
- Towel/Supply Storage
- Transgender Facilities

### *Common Areas*

- Heater Room
- Heavy Equipment Room/ Equipment Storage Room
- Laundry Room
- Trainer's Room
  - Office
  - Storage Area
  - Restroom
  - Therapy/Work Area

### *Additional Areas*

- Field Storage

The new Girl's Athletic Locker Room will be built on a slope and a portion of it may exceed the existing height limit by up to 7 feet. A waiver permit may be required depending upon final designs.

The Kalani High School Campus currently does not have dedicated spaces for judo or wrestling. This project proposes construction of a new separate building for judo and/or wrestling activities.

This project includes renovation of the existing Girl's P.E. Locker/Shower Room and an additive alternative to demolish the existing portable field restroom that is currently located to the east of the proposed Girl's Athletic Locker Room building, and construction of a new field restroom building closer to the existing gymnasium.

The total proposed usable floor area of the new Girl's Athletic Locker Room, new Judo/Wrestling building, renovated Girl's P.E. Locker/Shower space, and new restroom building is approximately 11,455 square feet. See Figure 3 for a breakdown of all proposed spaces, as well as a comparison to the Department of Education's Facilities Assessment and Development Schedule (FADS) size standards.

The proposed project also includes site improvements for utility connections, grading, drainage, paving, parking, walkways, and landscaping. A portion of an internal roadway will be removed, as well as some parking stalls, but additional parking will be created.

### **Parking**

No new off-street parking is required for this project since the proposed uses are accessory uses. Construction will remove 6 parking stalls, but will also create 10 new stalls, 2 of which will be wheelchair accessible stalls. This results in a net gain of 4 stalls for the campus. The 10 stalls are to be located directly west of the existing gymnasium. See Figure 2.

### **Future Planning**

The project planning team and school officials have identified the following components as priority add-ons to upgrading the athletic facilities on campus once additional funding becomes available:

- Weight Training Building
- Covered Lanai

### **Overall**

The proposed project is needed because the current facilities do not address the growing female participation in athletics since the 1950s, the changes in needed facilities per new standards, and the current facilities do not provide gender equity. The current facilities are outdated, inadequate in size, and inadequate in functionality for a modern athletics program. The proposed project will help update the campus and bring it closer to current DOE standards. The proposed project will also strengthen the school's physical education program for the betterment of the students.

**Figure 3: Project Components and Designed Areas in Comparison to Department of Education's Facilities Assessment and Development Schedule (FADS) Program Areas**

Kalani High School - Girl's Athletic Locker Room				Date: December 11, 2015
COMPARISON OF FADS PROGRAM AREAS VS AS-DESIGNED AREAS				
Schematic Design Phase				
Program Space	FADS Program Area	As Designed	Difference	Notes
<b>Girl's Locker Room</b>				
Coach's Office	160	150	(10)	
Locker/Shower/Toilet	110	75	(35)	
Locker Room/Meeting Area	1,100	1,247	147	Includes Entry
Toilet Area	200	331	131	
Drying Room	300	-	(300)	Combined in Shower Room
Shower Room	500	757	257	
Equipment Storage Room	300	580	280	Combined with Heavy Equipment Room
Shower Booth Room	120	-	(120)	Combined in Shower Room
Shower Booth Room	80	-	(80)	Combined in Shower Room
Janitorial Closet	80	35	(45)	
Towel/Supply Storage	200	100	(100)	
Transgender	150	100	(50)	
<b>Total Girl's Locker Room</b>	<b>3,300</b>	<b>3,375</b>	<b>75</b>	
<b>Common Areas</b>				
Heater Room		305	305	Per Designer
Heavy Equipment Room	500	580	80	Combined with Equipment Room
Laundry Room	160	150	(10)	
Trainers Room			-	
Office	120	150	30	
Storage Area	320	125	(195)	
Restroom	70	90	20	
Therapy/Work Area	790	900	110	
<b>Total Common Areas</b>	<b>1,960</b>	<b>2,300</b>	<b>340</b>	
<b>Additional Areas</b>				
Field Storage	-	1,695	1,695	Per Designer
Existing Girl's PE Locker/Shower	-	1,910	1,910	Per Designer
New Restroom Building	-	275	275	Per Designer
<b>Total Additional Areas</b>	<b>-</b>	<b>3,880</b>	<b>3,880</b>	
<b>Wrestling / Judo</b>				
<b>Total Wrestling/Judo</b>	<b>1,900</b>	<b>1,900</b>	<b>-</b>	
<b>Weight Lifting (Planning Only)</b>				
<b>Total Weight Lifting</b>	<b>1,960</b>	<b>1,790</b>	<b>(170)</b>	
<b>TOTAL PROGRAM AREA</b>	<b>9,120</b>	<b>13,245</b>	<b>4,125</b>	

Source: Ferraro Choi and Associates, Ltd.

## **2.4. PROJECT SCHEDULE AND COST**

A rough-order of magnitude cost estimate for construction of the new Girl's Athletic Locker Room building is \$7.4 million. Construction could begin in late 2016. The project is funded by the State of Hawai'i Department of Education.

## **2.5. PERMITS AND APPROVALS REQUIRED**

Several approvals and permits will be or may be required from various agencies within the City and County of Honolulu, the State of Hawai'i, and/or federal government to implement the proposed project. A summary listing is as follows:

### State of Hawai'i

- Department of Health
  - Individual Wastewater System (IWS) Approval
  - Noise Permit
  - Disability and Communication Access Board (DCAB) Approval
- Department of Land and Natural Resources
  - Historic Preservation Division Approval (grading)

### City and County of Honolulu

- Department of Planning and Permitting
  - Waiver for Height Limit
  - Construction and Building Permits
  - Sitework: Grading, Grubbing and Stockpiling Permits
  - Utility Connection Permits
  - Sewer Connection Application

- Board of Water Supply
  - Construction/Connection Permit

Consultation with agencies is on-going and this list may change.

## **2.6. CONSULTED PARTIES**

- State of Hawai'i Department of Education
- Honolulu Fire Department
- Honolulu Board of Water Supply
- Hawaiian Electric Company

This Draft Environmental Assessment will be reviewed by several State and County agencies in addition to the above.

### **3. DESCRIPTION OF THE AFFECTED ENVIRONMENT, POTENTIAL IMPACTS, AND MITIGATIVE MEASURES**

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#### **3.1. CLIMATE**

##### Existing Condition

O'ahu's subtropical location and topography are the primary influences on local climate. In general, prevailing northeasterly trade winds occur approximately 70 percent of the year with higher percentages in the summer months than winter, which give way to light, variable wind conditions. Warm ocean air flowing over the Ko'olau mountain range is the primary cause for local precipitation.

The climate in the area is warm and temperate with temperatures ranging between 71 degrees Fahrenheit and 78 degrees Fahrenheit. The area receives a low amount of rain with an annual rainfall amount of approximately 34 inches.

##### Potential Impacts and Mitigative Measures

The proposed new buildings are low-rise buildings. The ground preparation for the new buildings, lanai, walkway, and utilities will involve removing existing vegetation, but new landscaping will be installed. The proposed renovation of the existing girl's locker/shower room will only involve interior modifications. As such, no significant impacts to local temperature, rainfall, or wind patterns are anticipated for either the short-term or long-term. No mitigation measures are proposed.

#### **3.2. TOPOGRAPHY AND SOILS**

##### Existing Condition

The campus sits on gently sloping terrain that rises up to the north. Overall the ground is flat with small sections of steep hills or terraces throughout. The section with the lowest elevation of 15 feet above mean sea level (MSL) is at the track and field near

Kalaniana'ole Highway. The section with the highest elevation is the northeast corner of the property where the elevation is 90 feet above MSL. The proposed project area is on terraced land north of the existing track and field. Construction would be occurring around the 15 to 25-foot elevation level. The basement floor of the new Girl's Athletic Locker Room building would be level with the track and field and contain field storage. The main floor of the Girl's Athletic Locker Room building will be approximately level with the existing gymnasium.

Soils information for the project area was obtained from a soil survey prepared by the U.S. Department of Agriculture, September 2015<sup>1</sup>. According to the survey, the soil association for the project area is mostly Pearl Harbor clay, with some Lualualei extremely cobbly clay, 3 to 35 percent slopes, MLRA 166, and some Kawaihapai clay loam, 0 to 2 percent slopes, MLRA 158. See Figure 4.

The Pearl Harbor clay soil type is typically on 0 to 2 percent slopes and is a poorly-drained soil with negligible run-off and frequent ponding. Flooding on this soil type is occasional. This type of soil is not used for prime farmland.

The Lualualei extremely cobbly clay, 3 to 35 percent slopes, MLRA 166 soil type is a well-drained soil with high run-off. Flooding and ponding are not frequent. It is not a soil type for prime farmland.

The Kawaihapai clay loam, 0 to 2 percent slopes, MLRA 158 soil type is a well-drained soil with very low run-off. Flooding is occasional and ponding is infrequent. This soil type could be used for prime farmland if irrigated.

#### Potential Impacts and Mitigative Measures

The proposed project will involve grading and site preparation for the new structures, walkway, utilities, bioswales, and drainage basins, which will cause minor changes in

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<sup>1</sup> <http://websoilsurvey.nrcs.usda.gov>

topography. However, the soil types will remain unchanged and erosion will be controlled. The proposed renovation of the existing girl's locker/shower room will not involve any change to topography or soils since it only involves interior demolition and construction.

Short-term construction related impacts associated with the proposed buildings may include minor soil loss or erosion, but construction activities will employ Best Management Practices (BMPs) to minimize or prevent such occurrences. BMPs will include silt fences, periodic watering to minimize airborne dirt particles, and stabilized construction road access. Runoff will be controlled and grading work will be done in accordance with Revised Ordinances of Honolulu (ROH) Chapter 14, Articles 13-16 as related to Grading, Soil Erosion and Sediment Control.

Permanent erosion control measures such as planting, hardscape, and runoff detention basins will be used once construction of the proposed buildings are completed.

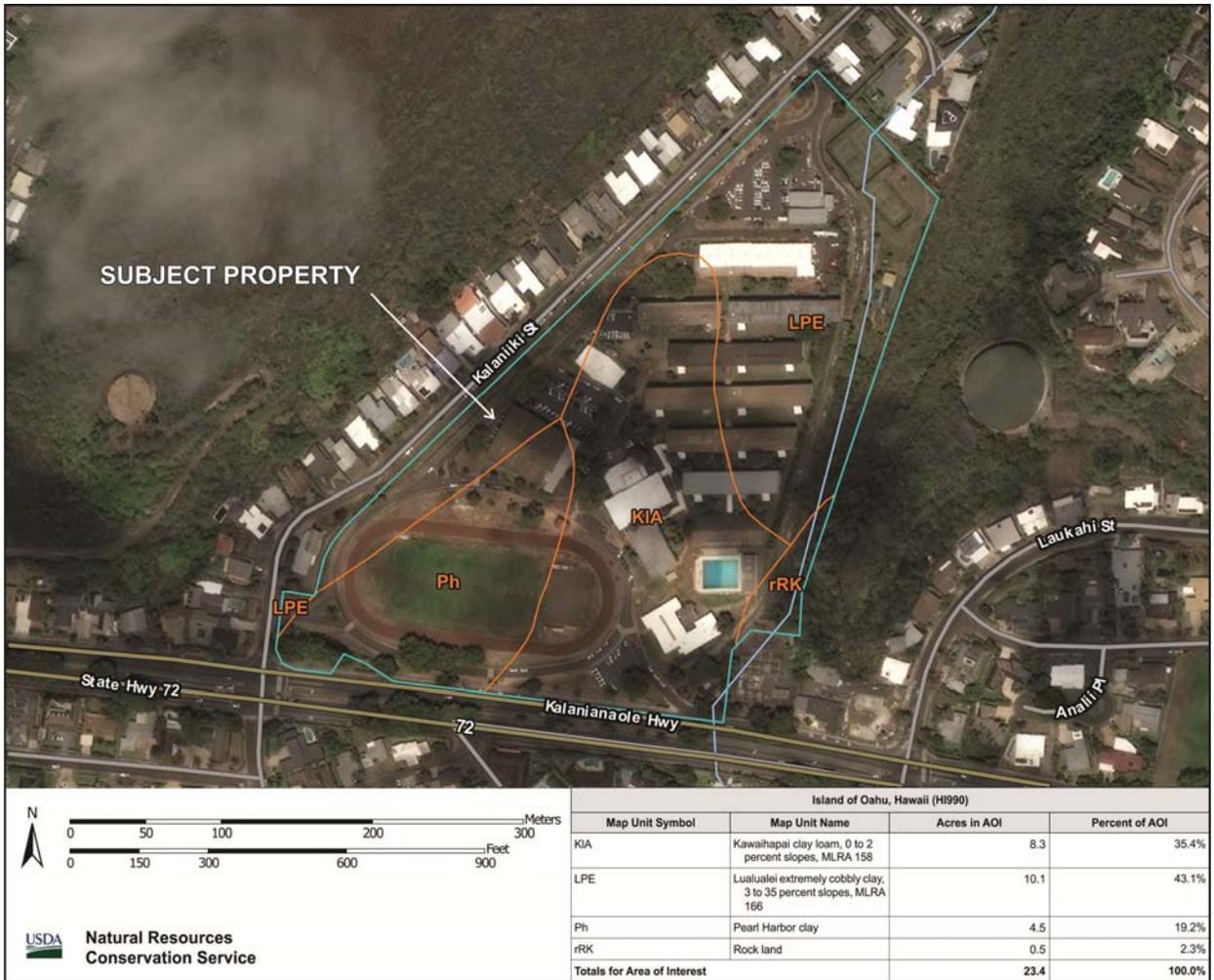


Figure 4: Soil Survey

### **3.3. HYDROLOGY**

#### Existing Condition

The Kalani High School campus is bordered by an intermittent stream/drainage ditch that runs along the eastern property edge. Currently, surface runoff sheet flows downslope in a southerly direction toward Kalaniana'ole Highway.

#### Potential Impacts and Mitigative Measures

Over the long-term, the construction of the new buildings and appurtenances will increase the amount of impervious surface on the property, but installation of new landscaping will mitigate this effect by absorbing and storing any increase in water runoff. Drainage swales, detention basins, and connections to the existing drainage system also may be used. The proposed improvements will have negligible impact on surface or groundwater resources and negligible drainage impact to the school.

BMPs for construction activities to mitigate short-term construction-related impacts will include silt fences, dust fences, and stabilized construction vehicle access ways. BMPs will be followed during construction to minimize soil erosion and runoff.

The contractor will comply with Hawai'i Administrative Rules (HAR) regarding clean water and consult with the Clean Water Branch of the State of Hawai'i Department of Health, to ensure acceptable construction methodology and materials. The contractor will also secure permits, if required, prior to construction activities.

### **3.4. AIR QUALITY**

#### Existing Condition

National Ambient Air Quality Standards (NAAQS) have been established for seven major air pollutants: carbon monoxide (CO), nitrogen oxides (NOx), ozone (O3), particulate matter smaller than 10 microns (PM10), particulate matter smaller than 2.5

microns (PM2.5), sulfur oxides (SOx), and lead. Air pollutant levels are monitored by the State Department of Health (DOH) at a network of sampling stations statewide. Based on ambient air monitoring data, the U.S. Environmental Protection Agency has classified the entire State of Hawai'i as being in attainment of the federal standards.

#### Potential Impacts and Mitigative Measures

Air quality impacts attributed to the proposed project would be short-term and include exhaust emissions and dust generated by construction activities. Proposed mitigation measures include the installation of dust screen barriers, periodic watering to minimize airborne dirt particles, and proper maintenance of construction vehicles. Construction activities will be conducted in accordance with State air pollution control regulations as outlined in HAR, Chapter 11-60.1-33, Fugitive Dust.

### **3.5. NOISE**

#### Existing Condition

Noise levels in the vicinity of the project areas are low, due to the low amount of surrounding development in the immediate area. The primary source of noise near the project area is likely associated with school activities and vehicular traffic along Kalaniana'ole Highway.

#### Potential Impacts and Mitigative Measures

The greater impacts on noise levels due to the proposed project will be mostly due to construction activities over the short-term. The operation of construction vehicles, machinery, tools, and the increased activity due to construction will increase noise levels above the existing level. Additional noise will be mitigated by limiting the hours and days of construction activities. Construction noise is regulated by the DOH and construction activities will be in compliance with HAR Chapter 11-46, Community Noise Control. Under current procedures, noisy construction activities require a

permit and are restricted to daylight hours between 7:00 AM and 6:00 PM, Monday through Friday, excluding certain holidays, and 9:00 AM and 6:00 PM on Saturdays. Construction is not permitted on Sundays.

Long-term impacts on noise will be due to the activities that will occur in and around the new buildings. However, noise generation due to the proposed improvements will be limited to school days and between the hours of 7:30 am and 4:30 pm.

### **3.6. FLOOD HAZARD**

#### Existing Condition

According to the City and County of Honolulu Public Geographic Information System and the State Department of Land and Natural Resources, the project area is in Flood Zone XS, as determined by the Federal Emergency Management Agency (FEMA). See Figure 5. Flood Zone XS (shaded) is associated with a 0.2 percent annual chance flood hazard. It is considered a low to moderate flood hazard risk area and is not a Special Flood Area.

The project site is outside the tsunami evacuation area.

#### Potential Impacts and Mitigative Measures

The campus is not within a flood prone area or the tsunami evacuation area. The proposed project will not increase flood hazard to the surrounding area. No mitigation measures are required.





## Flood Hazard Assessment Report

www.hawaiiifip.org

### Kalani High Flood Hazard

**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.
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**Property Information**

COUNTY: HONOLULU

TMK NO: (1) 3-5-020:004

WATERSHED: WAILUPE

PARCEL ADDRESS: 4684 KALANI'ANA'OLE HWY  
HONOLULU, HI 96821

**Flood Hazard Information**

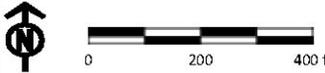
FIRM INDEX DATE: NOVEMBER 05, 2014

LETTER OF MAP CHANGE(S): NONE

FEMA FIRM PANEL - EFFECTIVE DATE: 15003C0369H - NOVEMBER 05, 2014  
15003C0388G - JANUARY 19, 2011

THIS PROPERTY IS WITHIN A TSUNAMI EVACUATION ZONE: NO  
FOR MORE INFO, VISIT: <http://www.scd.hawaii.gov/>

THIS PROPERTY IS WITHIN A DAM EVACUATION ZONE: NO  
FOR MORE INFO, VISIT: <http://dlnr.eng.hawaii.gov/dsm/>



*Disclaimer: The Hawaii Department of Land and Natural Resources (DLNR) assumes no responsibility arising from the use, accuracy, completeness, and timeliness of any information contained in this report. Viewers/Users are responsible for verifying the accuracy of the information and agree to indemnify the DLNR, its officers, and employees from any liability which may arise from its use of its data or information.*

*If this map has been identified as 'PRELIMINARY', please note that it is being provided for informational purposes and is not to be used for flood insurance rating. Contact your county floodplain manager for flood zone determinations to be used for compliance with local floodplain management regulations.*

**Figure 5: Flood Hazard**

### **3.7. FLORA AND FAUNA**

#### Existing Condition

The Kalani High School campus is located in a suburbanized area and was built in the 1950s and as such, the natural biota was disturbed long ago. Non-native species would likely be found within the project area. As such, no threatened or endangered species of plants or animals are anticipated within the project area.

#### Potential Impacts and Mitigative Measures

There will be no significant impact to native flora or fauna or habitats, as the vegetation was altered long ago.

### **3.8. HISTORICAL, CULTURAL, AND ARCHAEOLOGICAL RESOURCES**

#### Existing Condition

There are no known documented cultural or subsistence gathering places which must be reached by going through the Kalani High School campus or on the campus itself. The property is not on the National or State Registers of Historic Places.

#### Potential Impacts and Mitigative Measures

Construction of the proposed buildings, utility connections, and other improvements will involve ground disturbance in the form of grading and excavation. It is anticipated that no subsurface cultural or historical resources are present; however, should subsurface remains, artifacts, or other historical deposits be discovered during excavation activities, all work shall cease and the appropriate agencies and authorities, including the State Historic Preservation Division (SHPD), will be notified. Renovation of the existing girl's locker/shower room will not involve any expansion of the existing structure or any ground work. No mitigation is proposed.

The proposed project and school activities will have no effect on the existing public use of any uplands, beach, or ocean waters, or traditional or customary gathering activities. No mitigation is proposed.

### **3.9. RECREATIONAL RESOURCES**

#### Existing Condition

Kalani High School's campus does not contain, nor is it located near any, trail, public right-of-way, or public park.

#### Potential Impacts and Mitigative Measures

The proposed project will not impact existing public recreational resources; therefore, no mitigation is proposed.

### **3.10. VISUAL RESOURCES**

#### Existing Condition

The natural area around Kalani High School consists mostly of ridges and valleys to the north and the coastline to the south. Views toward the ridges and toward the ocean, toward Diamond Head Crater to the west and Koko Head Crater to the east are special to the area and should be preserved in general. The City and County of Honolulu's *East Honolulu Sustainable Communities Plan* recognizes these natural assets as well as built open space, but there is not a specific scenic view, lookout, or natural feature, except for Koko Head Crater, called out in the plan.

#### Potential Impacts and Mitigative Measures

The proposed project, over the short-term and long-term, will not significantly alter the views of the natural ridges, coastline, Diamond Head Crater, or Koko Head Crater from Kalaniana'ole Highway or from other vantage points. The proposed buildings are

low-rise structures and will be located in close proximity to the existing gymnasium which already has a high ceiling height. The proposed renovation of the existing girl's locker/shower room will not increase the height of the existing building.

### **3.11. ROADS AND TRAFFIC**

#### Existing Condition

Kalani High School is accessed mainly by Kalani Iki Street that intersects Kalaniana'ole Highway. Kalani Iki Street is a two-lane collector road that runs north-south and primarily serves the school and the surrounding residences on the ridge. There is one lane for each direction. At the intersection with Kalaniana'ole Highway, south-bound Kalani Iki Street splits into two lanes: one is a right-turn only lane and the other is a left-turn and straight-ahead lane. Kalaniana'ole Highway is a six-lane major arterial road that runs east-west (three lanes in each direction) and links Honolulu to Hawai'i Kai and beyond to Waimanalo and Kailua. At the intersection with Kalani Iki Street, Kalaniana'ole Highway becomes an 8-lane road with left-turn lanes added in each direction.

A secondary access to the school directly from Kalaniana'ole Highway is available only for west-bound vehicles. This access is for ingress-only.

Public transportation in the form of TheBus system is provided along Kalaniana'ole Highway. TheBus east-bound routes 1, 1L, 22, 23, 24, 235, and PH6 stop at the bus stop near the intersection of Kalaniana'ole Highway and Kalani Iki Street, but originate and terminate elsewhere. West-bound routes are 1, 1L, 22, 23, 24, 80B, 235, and PH6.

### Potential Impacts and Mitigative Measures

The project components will have short-term construction impacts on local traffic, but since the proposed buildings replace an undersized facility and they are accessory to the larger academic program, they are unlikely to increase overall school enrollment. As such, no long-term significant increase in traffic over what exists is anticipated. Therefore, a traffic impact assessment report is not warranted.

The short-term impacts to local traffic may be increases in commute times passing the campus due to slower moving construction vehicles. This may also affect public transit (The Bus) that travels through the area. This impact would be mitigated by the timing of the construction vehicle movement and/or parking construction vehicles on-site, so that they avoid the busiest times of morning and afternoon rush hours and school peak traffic hours.

## **3.12. UTILITIES**

### Wastewater

#### Existing Condition

According to the project engineer, the school's facilities connect to a 6-inch sewer main on campus, which then connects to a municipal 12-inch sewer line. Calculations for wastewater demands are not available at the time of this writing.

### Potential Impacts and Mitigative Measures

The new sewer system will be designed to comply with City and County of Honolulu standards. It is anticipated that the amount of wastewater generated by the proposed project can be handled by the existing City sewer system. Noise from construction and installation of the new connections will be mitigated by the timing of the activities. Potential dust generation will be mitigated by use of best management practices.

## Water

### Existing Condition

The high school campus is serviced by the Honolulu Board of Water Supply and according to the project engineer, has an 8-inch water line that is metered on campus. This water line is connected to a 24-inch water main under Kalaniana'ole Highway. There is an existing fire hydrant on the walkway near where the proposed new Girl's Athletic Locker Room will be located. The existing static water pressure is approximately 73 PSI (pounds per square inch) as determined by the Honolulu Board of Water Supply.

### Potential Impacts and Mitigative Measures

According to the project engineer, the existing water supply is adequate to serve the projected needs of the new buildings. The existing water pressure is adequate for fire-fighting purposes. The proposed project will be more thoroughly reviewed by the Honolulu Fire Department prior to building permits to ensure that the project will meet their requirements for fire protection.

## Electrical

### Existing Condition

Electrical power for Kalani High School is currently provided by Hawaiian Electric Company (HECO).

### Potential Impacts and Mitigative Measures

The existing HECO services should have sufficient capacity to handle the additional load proposed by the project. No mitigation is required.

### **3.13. PUBLIC SERVICES**

#### Existing Condition

Kalani High School is served by the Honolulu Police Department and the Honolulu Fire Department. Kalani High School is within the Police Department's District 7 (East Honolulu) Sector 3. The nearest fire station is the Wailupe Fire Station No. 23.

#### Potential Impacts and Mitigative Measures

The proposed project will improve public service in the form of public education. It will not significantly increase the demand on other public services, including law enforcement, fire protection, refuse collection, and medical and recreation facilities. As such, no mitigation is proposed.

### **3.14. SOCIO-ECONOMIC CHARACTERISTICS**

#### Existing Condition

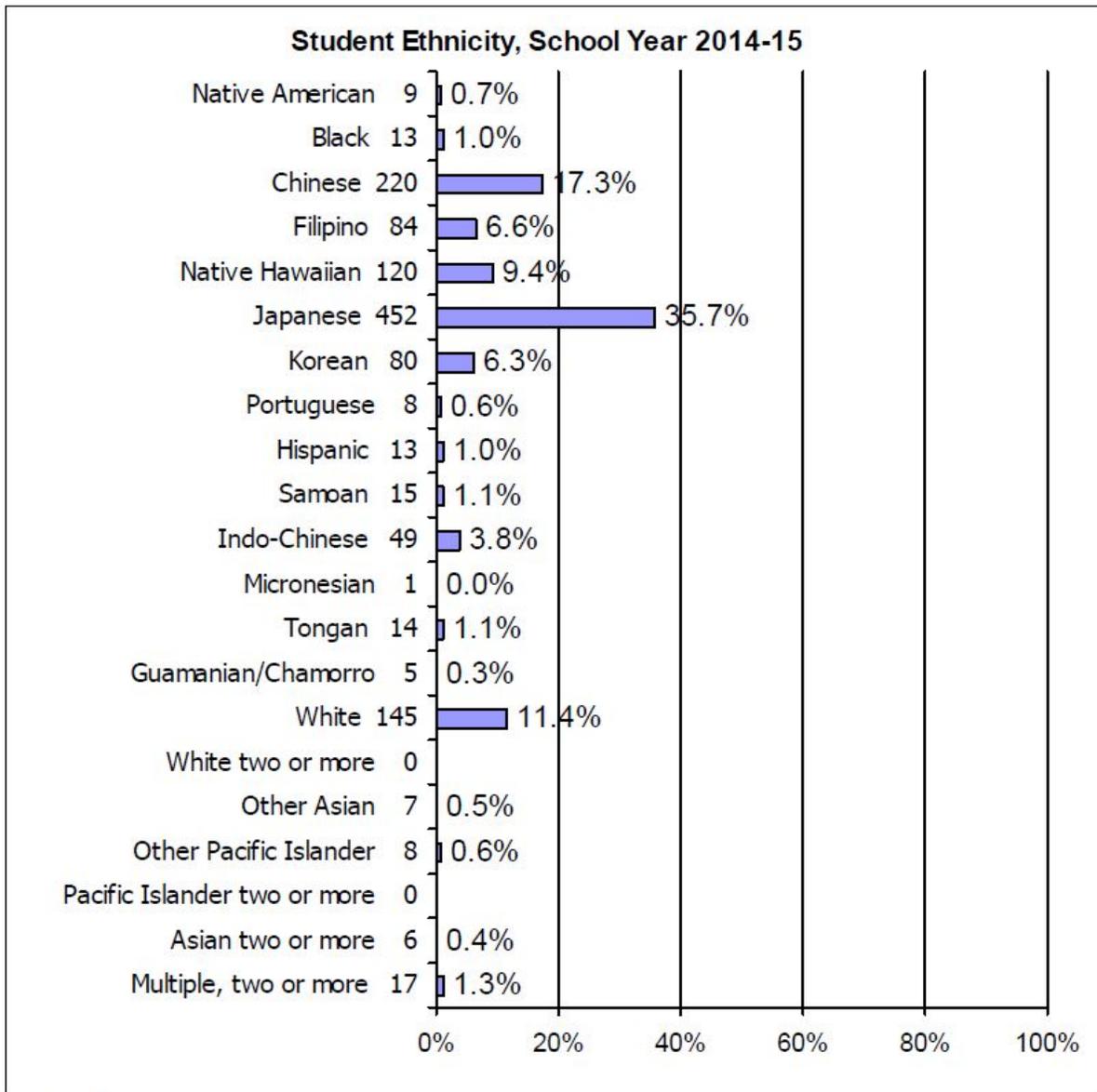
Kalani High School serves the Niu Valley, Aina Haina, Aina Koa, Maunalani Heights, Waialae-Kahala, Kahala, and Kaimuki (portions) neighborhoods. The Hawai'i Department of Education's (DOE) data for the school year 2014-2015<sup>2</sup> shows that the population of the community that is served by Kalani High School is 38,374 persons.

The number of family households in the area is 10,065. Enrollment for the 2014-2015 school year was 1,277 students. In the previous school year, Kalani High School was voted the best public school in Hawai'i by the U.S. News and World. The graduating class of 2015 consisted of 282 students and the school had a 95 percent graduation rate.

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<sup>2</sup> State of Hawai'i Department of Education, Accountability Section, Assessment and Accountability Branch, Office of Strategy, Innovation and Performance. School Status and Improvement Report: Kalani High School, School Year 2014-2015. Honolulu, HI. November 2015.

The latest available data for Kalani’s student population shows the highest percentage of students by ethnicity group is 35.7 percent. This represents the Japanese ethnicity. This is followed by the Chinese ethnic group at 17.3 percent, White at 11.4 percent, and Native Hawaiian at 9.4 percent. All other ethnic groups present each represent less than 7 percent of the student population. See following chart.

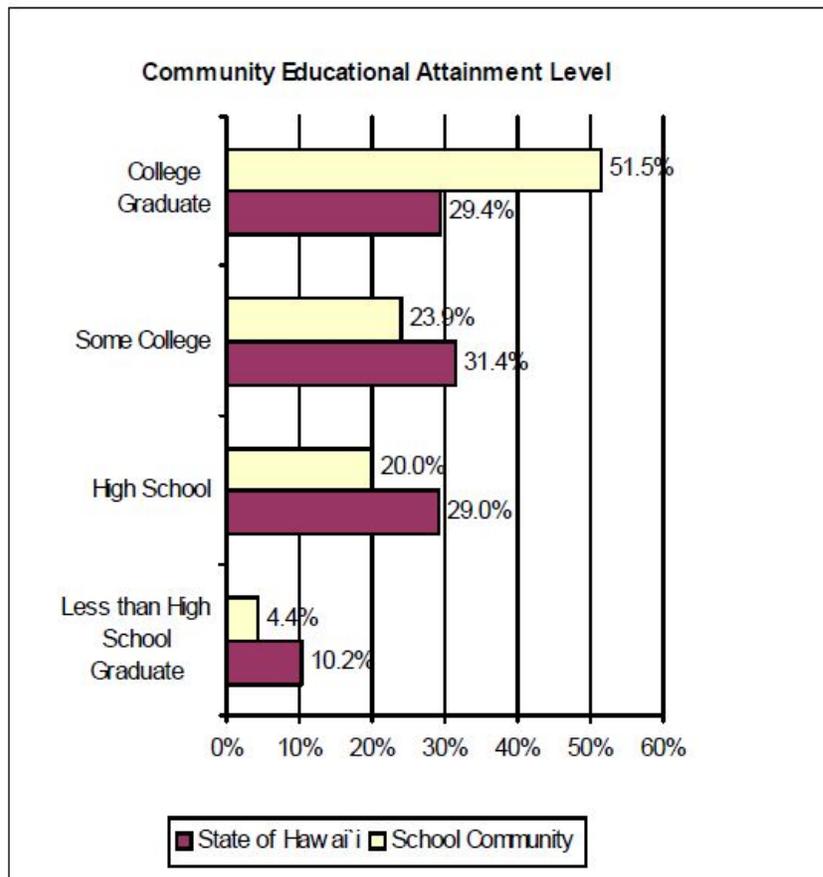


n = 1266

Source: State of Hawai'i Department of Education

The DOE data show that the population of the Kalani High School community has a higher median age of 48.9 years than the entire state’s median age of 38.6 years, and median household income of \$102,844 is significantly higher than the state’s median of \$66,420.

<b>Kalani HSC Complex</b>	<b>School Community</b>	<b>State of Hawai'i</b>
Total population	38,374	1,360,301
Percentage of population aged 5-19	15.0%	18.4%
Median age of population	48.9	38.6
Number of family households	10,065	313,907
Median household income	\$102,844	\$66,420



Source: State of Hawai'i Department of Education

### Potential Impacts and Mitigative Measures

The proposed project is intended primarily to serve the existing school population. The new buildings will have many positive impacts, including strengthening the physical education and athletic programs, providing gender equity, and improving morale. No significant change to enrollment is expected.

The proposed project would create new short-term employment related to construction. The proposed project is not expected to affect resident population or demographics because the surrounding communities are already matured. No mitigation is proposed as the socio-economic impact of the proposed project will be negligible, but positive.

## **4. RELATIONSHIP TO LAND USE POLICIES AND CONTROLS**

### **4.1. STATE OF HAWAI'I**

#### Hawai'i State Plan

The Hawai'i State Plan (Chapter 226, HRS) establishes a statewide planning system with goals, objectives, policies, and priorities to guide future long-range development of the state toward a desired future.

The proposed project components are consistent with the Hawai'i State Plan objectives and policies for socio-cultural advancement--education (§226-21), which states:

(a) Planning for the State's socio-cultural advancement with regard to education shall be directed towards achievement of the objective of the provision of a variety of educational opportunities to enable individuals to fulfill their needs, responsibilities, and aspirations.

(b) To achieve the education objective, it shall be the policy of this State to:

(1) Support educational programs and activities that enhance personal development, physical fitness, recreation, and cultural pursuits of all groups.

(2) Ensure the provision of adequate and accessible educational services and facilities that are designed to meet individual and community needs.

(3) Provide appropriate educational opportunities for groups with special needs.

(4) Promote educational programs which enhance understanding of Hawaii's cultural heritage.

(5) Provide higher educational opportunities that enable Hawaii's people to adapt to changing employment demands.

(6) Assist individuals, especially those experiencing critical employment problems or barriers, or undergoing employment transitions, by providing appropriate employment training programs and other related educational opportunities.

(7) Promote programs and activities that facilitate the acquisition of basic skills, such as reading, writing, computing, listening, speaking, and reasoning.

(8) Emphasize quality educational programs in Hawaii's institutions to promote academic excellence.

(9) Support research programs and activities that enhance the education programs of the State.

The new buildings will help achieve the objectives and policies above, especially policies 1, 2, and 3.

### State Land Use Classification

State Land Use Districts are established by the State Land Use Commission in accordance with Chapter 205, HRS. The purpose of the districts is to regulate the use of lands within the state to accommodate population growth and development as needed, and to protect important agricultural and natural resources areas. There are four classifications of land under this districting system: Urban, Rural, Agricultural, and Conservation. Kalani High School is within the Urban district. The Urban district is regulated by the counties. The following sections describe county regulations for the City and County of Honolulu.

## **4.2. CITY AND COUNTY OF HONOLULU**

### General Plan

The General Plan for the City and County of Honolulu is a collection of broad objectives and policies supported by the City and County of Honolulu government to guide the future of O'ahu toward a desirable and attainable future.

The proposed project is consistent with the objectives and policies of the General Plan, particularly the following:

## **VII. Physical Development and Urban Design**

Objective A: To coordinate changes in the physical environment of Oahu to ensure that all new developments are timely, well-designed, and appropriate for the areas in which they will be located.

Policy 1:

Plan for the construction of new public facilities and utilities in the various parts of the Island according to the following order of priority: first, in the primary urban center; second, in the secondary urban center at Kapolei; and third, in the urban- fringe and rural areas.

Objective E: To create and maintain attractive, meaningful, and stimulating environments throughout Oahu.

Policy 5:

Require new developments in stable, established communities and rural areas to be compatible with the existing communities and areas.

Policy 9:

Design public structures to meet high aesthetic and functional standards and to complement the physical character of the communities they will serve.

Objective F: To promote and enhance the social and physical character of Oahu's older towns and neighborhoods.

Policy 2:

Encourage, wherever desirable, the rehabilitation of existing substandard structures.

Policy 3:

Provide and maintain roads, public facilities, and utilities without damaging the character of older communities.

## **IX. Health and Education**

Objective B: To provide a wide range of educational opportunities for the people of Oahu.

Policy 4:

Encourage the construction of school facilities that are designed for flexibility and high levels of use.

The proposed project components comply with the objectives and policies of the General Plan by building upon and improving the public facility that already exists in a

stable older community, without changing the character of the diverse community. It can be accommodated by existing infrastructure and utilities.

The design and construction of the facilities will meet high aesthetic and functional standards as per the DOE FADS specifications and review. It takes into consideration the impacts to the surrounding neighborhoods, natural environment, and important views of the mountains and ocean. The designs also incorporate energy efficiency measures where possible.

Furthermore, the proposed project will expand educational opportunities for the students and bring equity for female athletes and students. No female athletic facility currently exists on campus.

The buildings will not compromise the area's natural beauty, will not obstruct important views, will not endanger natural resources, or pose environmental hazards.

### East Honolulu Sustainable Communities Plan

The City and County of Honolulu's Development Plans (DPs) and Sustainable Communities Plans (SCPs) further refine the General Plan for the eight regions of O'ahu. The region in which the proposed project is located is East Honolulu. The East Honolulu SCP area spans from Wai'alae-Kāhala to Makapu'u Point. The East Honolulu SCP puts forth policies and guidelines to guide future activities and development in the East Honolulu area.

The proposed project complies with the major policies, principles, and guidelines of the East Honolulu SCP which focus on preserving and protecting the open space system, public access to hiking trails, natural drainage ways, the Koko Head Regional Park, and the Ka Iwi shoreline. The proposed project will not affect these valuable natural resources or viewsheds.

The following are the policies, principles, and guidelines of the East Honolulu SCP specific to schools:

## **Section 4.7 School Facilities**

### GENERAL POLICIES

General policies relating to school facilities are listed below:

- Approve new residential developments only after the State Department of Education certifies that adequate school facilities, either at existing schools or at new school sites, will be available when the development is completed.
- Have developers pay their fair share of all costs needed to ensure provision of adequate school facilities for the children living in their developments.

### PLANNING PRINCIPLES AND GUIDELINES

The following principles and guidelines should be followed in planning and operating schools in East Honolulu.

**Adaptive Reuse.** While the demand for classroom space has been declining in some sections of East Honolulu, needs could change significantly, even with a relatively slow rate of population growth if there is a future shift in household characteristics as younger adults with school-age children replace or move in with elderly residents in single family dwellings.

Therefore, the existing inventory of school facilities should be maintained. To make more efficient use of these facilities, as well as DOE fiscal resources, some of the unneeded classroom space could be converted for temporary use as administrative office space for DOE personnel. This largely reflects a strategy that DOE has already adopted.

**Shared Facilities.** The Department of Parks and Recreation should coordinate with the DOE the development and use of athletic facilities such as playgrounds, play fields and courts, swimming pools, and gymnasiums where the joint use of such facilities would maximize use and reduce duplication of function without compromising the schools' athletic programs (see also Section 3.3.3). Moreover, the DOE should coordinate the structural design of school buildings with the Oahu Civil Defense agency so that these facilities may be used as public hurricane shelters.

**Fair Share Contribution.** The City should support the DOE's requests for fair share contributions from developers of residential projects to ensure that adequate school facilities are in place at existing schools to meet the needs of residents.

**New Facilities.** If a new public or private school campus or a significant increase in enrollment capacity at one of the existing campuses is proposed, the guidelines for institutions in Section 3.6.4 should apply.

The proposed project is consistent with the above. No new campus is being proposed and an existing campus is being maintained.

## **5. ALTERNATIVES TO THE PROPOSED ACTION**

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The following sections describe the alternatives to the proposed project.

### **5.1. NO ACTION**

Under the No-Action alternative, there would be no change to Kalani High School. Gender inequity in athletics would continue to be unaddressed and the school's current and future needs will not be served. The existing girl's P.E. locker/shower area would remain aged and substandard. Current DOE EDSPECS will not be met.

### **5.2. ALTERNATIVES CONSIDERED**

The project itself has the additive alternative of demolishing the current portable field restroom and replacing it with a new field restroom building. Also, the project team considered four possible locations for the new buildings within the southern portion of the campus. These are described below:

#### **Alternative Site 1:**

Site 1 is the area located north of the existing swimming pool, between the pool and Classroom Building F. This site could work because of its proximity to other locker/shower facilities. However, it is not near the track and field which would be more useful, it is restricted in size because of the existing built buildings and therefore, would require being constructed as an addition to an existing building for more appropriate spacing, and it would negatively affect the wind pattern and cross-ventilation of Classroom Building F.

**Alternative Site 2:**

Site 2 is the area located south of the existing girl's P.E. locker/shower building and near the start of the secondary access road to the campus. Similar to Site 1, this site is near existing locker/shower facilities, but is not ideal because it is small and far from the track and field. Also, it is near the drainage canal and would involve repurposing an existing custodial residence.

**Alternative Site 3:**

Site 3 is the existing parking area located south of the existing track and field, between the track and field, the secondary access road, and Kalaniana'ole Highway. The advantages of this site are proximity to both the existing P.E. locker/shower building and the track and field. The disadvantages of this site are the irregular triangular shape of the site and that it would eliminate or require relocation of 36 existing parking stalls.

**Alternative Site 4:**

Site 4 is the area located north of the existing track and field, between the track and field and the existing gymnasium. The advantages of this site are that the area is large and it is in close proximity to the track and field. The disadvantages are that it is not located near existing locker/shower facilities, the site is not flat, and it would require the elimination or relocation of 6 existing parking stalls and a portion of the secondary access road.

**5.3. PREFERRED ALTERNATIVE**

The preferred alternative is to locate the proposed project at Site 4. The advantages and disadvantages were weighed by the planning team that included end-users (school officials and/or staff).

## **6. FINDINGS AND ANTICIPATED DETERMINATION**

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### **6.1. ANTICIPATED DETERMINATION**

Based on the findings of this Environmental Assessment (EA), it is anticipated that the approving agency, the State of Hawai'i Department of Education, will determine that the proposed project will not have a significant environmental impact, and an Environmental Impact Statement (EIS) will not be required. Therefore, a Finding of No Significant Impact (FONSI) is anticipated.

### **6.2. REASONS SUPPORTING THE ANTICIPATED DETERMINATION**

The Department of Health Administrative Rules Section 11-200-12 provides thirteen "Significance Criteria" for determining if an action will have a significant impact on the environment. This includes all phases of a project, its expected consequences both primary and secondary, its cumulative impact with other projects, and its short and long-term effects. According to the Rules, an action shall be determined to have a significant impact on the environment if it meets any one of the criteria listed below.

#### **1. Involves an irrevocable commitment to loss or destruction of any natural cultural resources.**

The project will not result in an irrevocable commitment to loss or destruction of any natural or cultural resources. As with almost all places on O'ahu, there is a possibility of encountering sub-surface archaeological resources during the construction of the project, but should that occur, all work will be stopped and any following action/activity will be conducted in consultation and accordance with the State Historic Preservation Division.

**2. Curtails the range of beneficial uses of the environment.**

The proposed project will not curtail the range of beneficial uses of the environment. The school campus is already reserved for school use and is fully developed. The underlying Urban land use classification and R-7.5 residential zoning commits the subject property to residential development and use, which includes community facilities that service the residences, such as a public high school.

**3. Conflicts with the State’s long-term environmental policies or goals and guidelines as expressed in Chapter 344, HRS; and any revisions thereof and amendments thereto, court decisions, or executive orders.**

The proposed project is consistent with the environmental policies established in HRS, Chapter 344. The proposed project will not alter the area’s existing natural processes or resources and will not lower the quality of life for Hawai’i residents. The campus is already well-established in the community and the project is a relatively small addition. Construction will produce some short-term impacts to air quality and noise, but these impacts are minor and will be mitigated in accordance with Department of Health regulations.

**4. Substantially affects the economic or social welfare of the community or state.**

The proposed project will not significantly affect the socio-economic welfare of the community or state, although it will help achieve gender equity on this campus. It will also contribute to the improvement of physical education and athletics, which in turn can help students improve their physical health and provide more incentives for interested students to excel in athletics or discover an interest in employment in physical education, athletics, or related fields. Positive effects on the community are anticipated with the promotion of gender equity, the upgrading of the existing public

facility, and provision of better opportunities for learning, experimentation, and team building. The project is still quite limited in scale, however.

**5. Substantially affects public health.**

The proposed project will not substantially affect public health. Construction of the new buildings, along with landscaping improvements and utility connection work, will produce some short-term impacts to air quality and noise, but these impacts are minor and will be mitigated in accordance with Department of Health regulations. Renovation of the existing girl's locker/shower room is expected to impact air quality and ambient noise levels to an even lesser degree.

**6. Involves substantial secondary impacts, such as population changes or effects on public facilities.**

The proposed project is part of a public facility and will have positive secondary impacts to the existing Kalani High School campus. The modernizing of facilities is a means to provide gender equity, a better education for the students, and help renew school and community pride. Substantial secondary impact on resident population is not expected since the surrounding communities are limited in density and buildable area. Demand on other public facilities, including utilities, will not increase significantly due to the proposed new facilities and improvements.

**7. Involves a substantial degradation of environmental quality.**

The proposed project will not further degrade overall environmental quality. Minor impacts to air quality as the result of construction will be short-term. The proposed project will fit into an existing campus and will not substantially change or disturb the existing natural processes occurring in the area.

**8. Is individually limited but cumulatively has considerable effect on the environment, or involves a commitment for larger actions.**

The proposed project is individually limited, will itself have an insignificant effect on the environment, and does not involve a commitment of larger actions. The proposed new buildings and improvements are for the Kalani High School campus only.

**9. Substantially affect a rare, threatened or endangered species or its habitat.**

There are no rare, threatened, or endangered plants or animal species associated with the campus. The project area and vicinity have been previously cleared and the vegetation has been altered.

**10. Detrimentially affects air or water quality or ambient noise levels.**

Construction will produce temporary impacts to air quality, water quality, and noise levels. These impacts are short-term and will be mitigated by using Best Management Practice in compliance with County of Hawai'i and State of Hawai'i rules and regulations regarding construction and related activities. Long-term impacts to air and water quality, and ambient noise levels will be negligible.

**11. Affects or is likely to suffer damage by being located in an environmentally sensitive area, such as a flood plain, tsunami zone, beach, erosion-prone area, geologically hazardous land, estuary, freshwater, or coastal water.**

The project area and campus are not in an environmentally sensitive area. The campus is not along the coastline or within a Special Management Area. It is outside of flood prone and tsunami inundation areas.

**12. Substantially affects scenic vistas and view planes identified in county or state plans or studies.**

As discussed in the previous Section 3.10, the proposed project will not significantly alter the views of the coastline from Kalaniana'ole Highway or Kalani Iki Street. The proposed buildings are to be low-rise and they will be located amongst other low-rise structures of the school. Views of the ocean from Kalaniana'ole Highway will not be affected since the campus is located mauka or north of the highway. Views of Koko Head will not be significantly affected.

**13. Requires substantial energy consumption.**

The new buildings will not require substantial energy consumption. The energy efficient strategies that will be applied will include:

- high performance building envelope
- energy efficient HVAC system (heating, ventilation, and air conditioning) and lighting
- daylighting and line-of-sight to view (minimize need for electrical lighting)
- innovation in design

## 7. CONSULTATION

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### 7.1. EARLY CONSULTATION

The following agencies were consulted in the early stages of the plan development.

#### State of Hawai'i

Department of Education

#### City and County of Honolulu

Honolulu Fire Department  
Honolulu Board of Water Supply

#### Other

Hawaiian Electric Company

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