
First Responders Technology Campus
and Cybersecurity Data Center



Mililani Technology Park Phase II

HISTORY

- ✘ 2014 – Sen. Chun Oakland introduces SB2526
 - + Requires the identification of a central location for a headquarters for the sheriff division by 12/31/2015
- ✘ Further review and findings:
 - + Emergency Medical Services needs a headquarters
 - + Need for joint-training facility for sheriff, police, fire, and national guard
- ✘ Airfields located in tsunami evacuation zones:
 - + Honolulu International Airport
 - + Dillingham Airfield
 - + Kaneohe Marine Core Base
- ✘ Airfields not located in an evacuation zone:
 - + Wheeler Army Airfield



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Hawaii lawmakers eye moving emergency facilities

Posted: Mar 20, 2014 4:40 AM
 Updated: Mar 20, 2014 4:40 AM

By SAM EIFLING
 Associated Press

HONOLULU (AP) - Hawaii lawmakers are proposing to move the state's public safety facilities to one central area that is safer from flooding.

A resolution proposed by senators Michelle Kidani and Donovan Dela Cruz would also consolidate the state's data centers from 30 sites to one. The resolution says the current data centers are poorly monitored and of low quality.

The lawmakers say the ideal site for a safety and data security campus would be a 150-acre plot in central Oahu. They say disasters such as Hurricanes Katrina and Sandy demonstrated the need to keep public safety sites far from floods and tsunamis.

The proposed site would also allow for reliable access to power, is near major roadways and offers quick access to downtown Honolulu and Honolulu International Airport.



MOST READ

2014 Hawaii Thanksgiving, Black Friday hours and doorbuster ads



NEWS WEATHER WAKE UP 2DAY SPORTS REPORT IT COMMUNITY MORE

Lawmakers consider plan for first responders campus in Mililani

By Kristine Uyeno

Published: June 6, 2014, 6:10 pm | Updated: June 6, 2014, 6:47 pm



Lawmakers consider plan for first responders campus in Mililani
 Some lawmakers are pushing for a first responders and cyber security campus to be built in Central Oahu -- one that would be home to police and fire departments, paramedics and more.

Could Central Oahu be the new home for emergency responders?

Some lawmakers would like to see a new campus built that would include police, fire and paramedics.

Current Challenges

- Located in inundation zones
- Aging facilities
- Private property leases
- Lack of infrastructure

Why Consolidate

- Central location
- Increase integration between agencies
- Decrease cost
- Modern and secured facilities

Potential Partners

- Federal
- State
- County
- Private Sector

MILILANI TECH PARK PHASE II

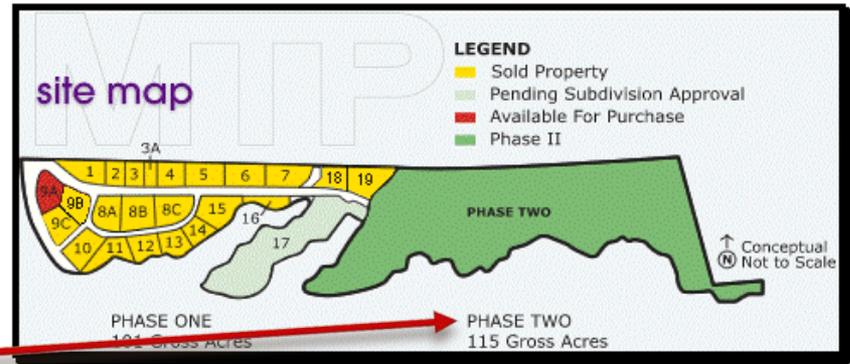
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H.B. NO. 1700
H.D. 1
S.D. 1
C.D. 1

CAPITAL IMPROVEMENT PROJECTS

| ITEM NO. | CAPITAL PROJECT NO. | TITLE | EXPENDING AGENCY | APPROPRIATIONS (IN 000'S) | | | |
|----------|---------------------|--|------------------|---------------------------|----------|-----------------------|----------|
| | | | | FISCAL YEAR 2013-2014 | M YEAR F | FISCAL YEAR 2014-2015 | M YEAR F |
| 7. | U102 | ENTERPRISE IT INFRASTRUCTURE, STATEWIDE | | | | | |
| | | PLANS, DESIGN, CONSTRUCTION AND EQUIPMENT FOR IT INFRASTRUCTURE, INCLUDING DATA/SHARED SERVICE CENTERS AND NETWORKS FOR THE STATE OF HAWAII. | | | | | |
| | | PLANS | | 500 | | 500 | |
| | | DESIGN | | 1,500 | | 1,500 | |
| | | CONSTRUCTION | | 1,000 | | 1,000 | |
| | | EQUIPMENT | | 3,000 | | 3,000 | |
| | | TOTAL FUNDING | AGS | 6,000 C | | 6,000 C | |
| 7.01. | | FIRST RESPONDERS TECHNOLOGY CAMPUS AND CYBER SECURITY COMMAND CENTER, OAHU | | | | | |
| | | PLANS, LAND ACQUISITION AND DESIGN FOR TMKS: 9-5-046-041; 9-5-046-010; 9-5-002-057; 9-5-046-018; AND 9-5-046-042, TO BE DESIGNATED FOR THE SITE OF THE FIRST RESPONDERS TECHNOLOGY CAMPUS AND CYBER SECURITY COMMAND CENTER. | | | | | |
| | | PLANS | | | | 1 | |
| | | LAND | | | | 11,498 | |
| | | DESIGN | | | | 1 | |
| | | TOTAL FUNDING | AGS | C | | 11,500 C | |

150 acres



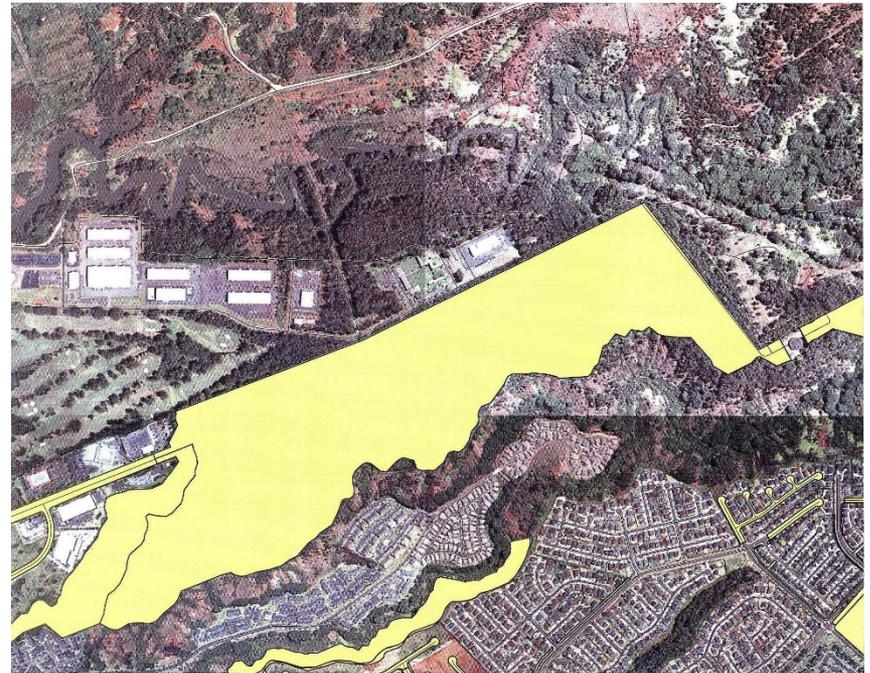
In 2014, Sen. Michelle Kidani requested \$11.5 million for the plan, design, and land acquisition of land to be designated for the First Responders Technology Campus and Cyber Security Command Center.

WHY?

- ✘ **CONSOLIDATES** the state and city's emergency responders and data center into a central location
- ✘ **STRENGTHENS** and **COORDINATES** public safety
- ✘ **ENGAGES PARTNERSHIPS** that are independent of urban Honolulu
- ✘ **REDUCES** cost for development, maintenance, and repair by agencies sharing facilities
- ✘ **PROVIDES** Central Oahu residents to Live, Learn, Work, and Play within their community

MILILANI TECH PARK PHASE II

- ✘ Out of the inundation zone
- ✘ Close proximity to Wheeler Army Airfield, Schofield Barracks, NSA/CSS Hawaii, and NCTAMS
- ✘ Freeway on- off- ramp
- ✘ Schofield East Range (North)
- ✘ Gulch buffer (South)
- ✘ Located within the Urban Growth Boundary
- ✘ Included in the Central Oahu Sustainable Communities Plan



PARTNERSHIPS



OFFICE OF ENTERPRISE TECHNOLOGY SERVICES

The Office of Enterprise Technology Services (ETS) was established to lead the business and technology transformation for the State of Hawaii.

Key to ETS's strategy is the stabilization and modernization of Hawaii's antiquated IT infrastructure, while identifying **efficiencies and cost-savings realized by leveraging shared assets and economies of scale.**

CURRENT CHALLENGES



ETS
STATE OF HAWAI'I

ETS

- Kalanimoku Bldg. State Data Center located in a vulnerable, high-risk location (773 yards from water and is within the extended tsunami inundation zone).
- Located in basement below water table – susceptible to storm flooding.
- No permanent alternate facility for disaster recovery and business continuity after disasters.
- No permanent alternate network switching capabilities.
- No 24/7 network operations or security operations center.

“Our immediate task is moving our State’s critical technology systems and disaster recovery operations to more secure and protected sites, with long-range plans to relocate those services into geographically separated facilities that will survive all disasters and threats.”

– Todd Nacapuy
State Chief Information Officer, 2015

KALANIMOKU BLDG. STATE DATA CENTER

- ✘ Vulnerable, high-risk location
- ✘ In extended tsunami inundation zone
- ✘ In basement below water table, susceptible to storm flooding
- ✘ No permanent alternate facility for disaster recovery and business continuity after disasters
- ✘ No 24/7 network operations or security operations center

Hawaii is in dire need of an **upgrade** to its IT infrastructure. The current **dependency** on legacy computer systems has created a **vulnerability** to our State's cybersecurity and databases.



ETS FACILITIES



(Above) Radio Base Station
(Below) Radio Tower



(Right) Data Center



(Below)
Communication
Racks



CURRENT CHALLENGES



HI-EMA

- Need for improving laydown and warehouse area for disaster resources.
- Maintenance and labor costs are no longer containable.
- A shortage in regular joint training exhibits could be fatal in a major crisis.

SHERIFF DIVISION FACILITY

- ✘ 801 Dillingham Blvd.
- ✘ Total area: 24,658 sq. ft. (rentable/usable combined floor area)
 - + 7,367 sq. ft. (1st floor)
 - + 17,291 sq. ft. (2nd floor)
- ✘ Annual cost: \$771,500
- ✘ Lease Term: December 01, 2013 – November 30, 2018
 - + Option to renew: 2-terms at 5-yrs per term



HAWAII NATIONAL GUARD FACILITIES

Cost: 11 Million



(Left) Emergency Response Force Package Equipment Storage

(Below) 93rd Weapons of Mass Destruction Civil Support Team Building

Cost: 5.6 Million



(Right/Below) Collapsed structure training area

Cost: 4.5 Million



HAWAII NATIONAL GUARD JOINT USE FACILITIES

- ✘ Auditorium, 294 Seats Cost: 2.5 Million
- ✘ 8 Classrooms Cost: 6 Million
 - + 2 at 40 ft X 40 ft
 - + 6 at 20 ft X 40 ft
- ✘ Pavilion at 25 ft X 100 ft Cost: 125K
- ✘ 210 Bed Billets Cost: 17 Million
- ✘ Search and Rescue Site Cost: 4.5 Million



HPD TELECOMMUNICATIONS OFFICE AND RADIO SHOP

- ✘ 3375 Koapaka St.
- ✘ 7,277 Sq. Ft.
- ✘ Monthly Rent:
\$19,750
- ✘ Lease Exp:
9-30-2024



HPD EVIDENCE STORAGE

- ✘ 1551 Hart St.
- ✘ 56,900 sq. ft.
- ✘ Monthly Rent
\$51,649
- ✘ Lease Exp:
4-30-2025



HPD NARCOTICS/VICE UNDERCOVER FACILITY

- ✘ Current office space funded by the Hawaii High Intensity Drug Trafficking Area (HI-HIDTA) utilizing federal funds
- ✘ Additional partnership with the Hawaii State Fusion Center also housed within the same building
- ✘ Monthly cost: \$55,953
- ✘ Monthly parking cost: \$7,476



HFD REGIONAL FIRE TRAINING CENTER

- ✖ 890 Valkenburgh St.
- ✖ 5-acres
- ✖ Monthly Rent:
\$51,649
- ✖ Lease Exp:
4-30-2025



BENEFITS OF CONSOLIDATION

- ✘ EOC Emergency Warehouse provides improved security for separation from the State EOC
- ✘ MTP would place the Emergency Warehouse close to Federal ISB and resources at Wheeler Army Airfield
- ✘ Joint-facilities provide ability to conduct inter-agency training covering subjects such as Emergency Management, Homeland Security, and WebEOC



BENEFITS OF CONSOLIDATION

Benefits of a centralized location:

- ✘ Evidence and vehicle storage
- ✘ Telecommunication Work Station
- ✘ Narcotics and Vice (undercover) Facility

Benefits of joint-facilities (sharing, cost, etc.):

- ✘ Alleviate high rent costs
- ✘ Provide off-site locations for training
- ✘ Secured facilities 24-hours
- ✘ Adequate parking for trainers, trainees, and recruits



REDUCE COSTS BENEFIT

- ✘ Cost savings for rental of space and security by Dept. of Health
- ✘ Cost savings from renting hotel rooms and conference rooms (dorms could also be converted for shelter space in the event of a natural disaster)



ETS SHORT-TERM OPTIONS

Option A:

Extend useful life of Kalanimoku Bldg.

Estimated building upgrade cost:
\$4.2+ million

Increased operational cost:
\$100,000 x five years = \$500,000

***Does not resolve flooding issues.**

Option B:

Lease additional temporary commercial services to answer immediate operational and disaster relief needs.

Two commercial alternate data centers cost:
\$55,000 per month x 5 years = \$3.3 million

***All commercial service options located within tsunami zones.**



ETS LONG-TERM OPTION

Construct modern Tier 3 primary data center at a secure interior Oahu location (house all State's primary IT assets)

- ✘ Design cost: \$2.1 million
- ✘ Construction cost: \$40 - \$50 million (based on UH Data Center)
- ✘ Operations and Maintenance: \$3 million

ADDITIONAL POTENTIAL PARTNERS

- ✘ Dept. of Health as they are lead agency for the Strategic National Stockpile (SNS) Program
- ✘ FEMA (could possibly be interested in relocating their warehouse facility from Halawa to tech campus)
- ✘ Technology companies such as Microsoft have expressed interest

CARLSBAD JOINT FIRST RESPONDERS TRAINING FACILITY

- ✘ Two City-owned properties
- ✘ Police, fire, and public works center



COST SUMMARY

| Agency | Current Annual Cost | Property Owner | Lease Expiration |
|--------|---------------------|----------------|-----------------------------|
| ETS | \$840,000 | State Property | NA |
| HI-EMA | NA | State Property | NA |
| PSD | \$771,500 | Private Lease | Nov. 30, 2018 |
| HANG | \$72,000 | State Property | NA |
| HPD | \$1,617,936 | Private Lease | Sept. 30, 2024 ³ |
| HFD | \$619,788 | City Property | April 30, 2025 |
| EMS | \$900,000 | Various Leases | NA |
| Total | \$4,871,224 | | |

* Agencies will pay nearly \$100M over the next twenty years for operations or leases at current facilities.

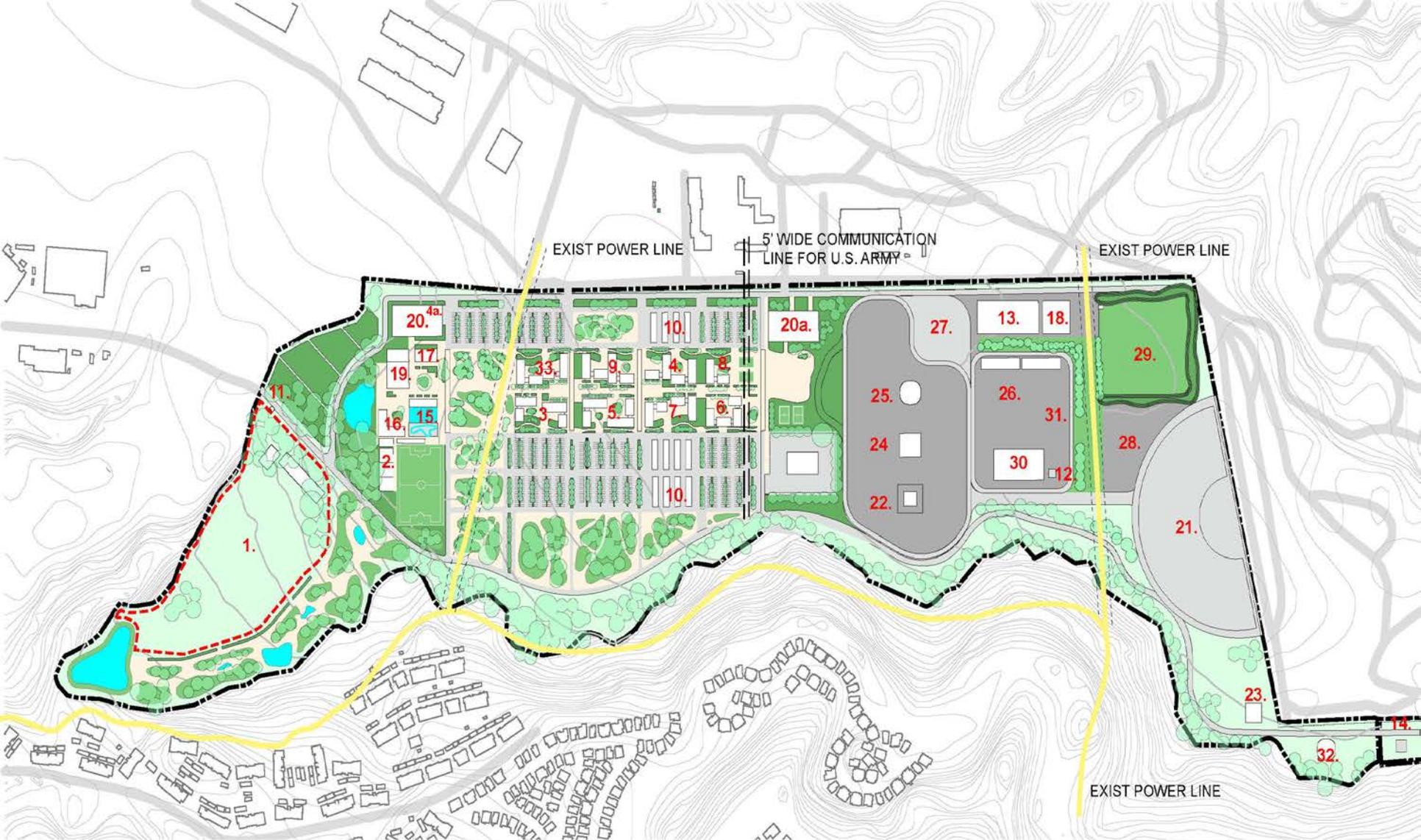
PROCESS

Completed

- ✘ CIP appropriation: \$11.5M (2014)
- ✘ Inter-Governmental Agreement
 - + Dept. of Accounting and General Services and High Technology Development Corporation
- ✘ Release of CIP appropriation
- ✘ Purchase of MTP Phase II

Next Steps

- ✘ Enter into Contractual Agreements with:
 - + Office of Enterprise Technology Services
 - + Dept. of Public Safety (Sheriff Division)
 - + Dept. of Health (incl. Emergency Management Services)
 - + Hawaii Emergency Management Agency
 - + Hawaii National Guard
 - + Honolulu Fire Dept.
 - + Honolulu Police Dept.



AVENUE SCHEME w/ ELECTRICAL LINES & MILITARY EASEMENT

- | | | | | | | |
|------------------|-----------|-------------------------|---------------------|---------------------------|--------------------|----------------------------|
| 1. HTDC | 5. DPS | 9. OETS | 13. Mock City | 18. Tactical Training | 23. K-9 Facility | 28. Training Parking |
| 2. YCA | 6. HIARNG | 10. Large Vehicle Barns | 14. Radio Towers | 19. Auditorium/Classrooms | 24. Repel Tower | 29. Firing Range |
| 3. SHERIFF | 7. HFD | 11. Security Post | 15. Pool | 20. Parking Structure | 25. Matson Tower | 30. Shared Mechanical Shop |
| 4. EMS | 8. HPD | 12. Heli Pad | 16. Dormitory | 20a. w/ Commercial | 26. Driving Course | 31. Shared Radio Shop |
| 4a. EMS Dispatch | | 17. Gymnasium | 21. Decon Footprint | 22. Rescue Tower | 27. Skid Pad | 32. Existing Water Tower |
| | | | | | | 33. State Archives |





Sandbagger

SECURITY

Mahalo!



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