

Honolulu Rail Transit Project Update

HAWAII ASPHALT PAVING INDUSTRY // JULY 21, 2023



What is HART?

- The Honolulu Authority for Rapid Transportation is a semi-autonomous department of the City and County of Honolulu.
- Established by City Charter Amendment in 2010 to plan, construct, operate and maintain the City's fixed-guideway rail system, similar to transit agencies in other cities.
- City Charter amended November 2016:
 - Transferred the operations and maintenance of the rail system to the City's Department of Transportation Services (DTS).
 - DTS also operates the City's bus and para-transit services.
- Accordingly, HART is responsible for the planning and construction of the rail system, and DTS is responsible for its operation.
- HART is 100% taxpayer funded.

Project Overview

- First driverless and fully automated commuter rail system in the United States
- Route is 18.9 miles from East Kapolei to Civic Center Station (corner of South Street and Halekauwila) with 19 stations
- Vehicle fleet: Twenty (20) four-car trains
- Rail Operations Center:
 - 43 acres near Leeward Community College
 - Includes maintenance and service facility and a train wash
 - Trains are powered by electricity via a “Third Rail” that carries 750 volts at all times



Map of Operating Segments



Segment 1 - Historic Initial Opening of Skyline



Federal, State, and City leaders gathered at Hālawā Station for the ceremonial untying of the Maile Lei as part of the Skyline's grand opening activities held on June 30, 2023.

Photo credit: Kay Salera

On June 30, a monumental milestone was achieved with the initial opening of Skyline! After a Grand Opening event in the morning, the initial segment that includes 10.75 miles of rail guideway and 9 stations from East Kapolei to Aloha Stadium, was opened to the public at 2 pm.

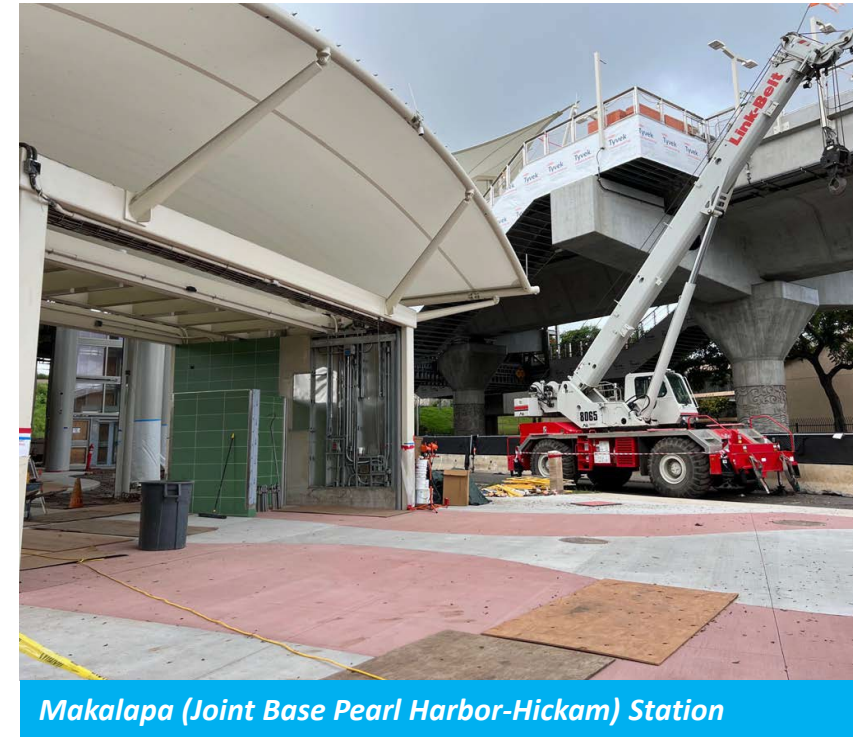
During the opening weekend, during which free fares were provided, Skyline welcomed nearly 72,000 riders to celebrate the opening of rail!

Progress Toward Completion

AIRPORT GUIDEWAY AND STATIONS

Segment 2 includes approximately 5.2 miles of the rail guideway and 4 stations, from Aloha Stadium Station, past Pearl Harbor and the Airport, to Middle Street Station.

- Guideway and track work are complete.
 - Coupled with the completion of Segment 1, this represents 84% completion of the entire guideway to Civic Center Station.
- Construction of the 4 stations in this segment are expected to be complete in fourth quarter 2023.
 - Core Systems equipment installation, which includes traction power, communications, train control, and signaling is underway.
 - Roadway paving and restoration activity is progressing.
 - After testing is complete, HART expects to transfer Segment 2 assets to DTS for operations in mid-2025.



Makalapa (Joint Base Pearl Harbor-Hickam) Station

Airport Guideway and Stations

Makalapa (Joint Base Pearl Harbor-Hickam) Station



Road work working with traffic underway

Lelepaau (Daniel K. Inouye International Airport) Station



Stairway and platform level work is ongoing

Airport Guideway and Stations

Āhua (Lagoon Drive) Station



Paving activities underway restoring roadways and driveways

Kahauiki (Middle Street) Station



Pedestrian bridge over Kamehameha Highway

Progress Toward Completion

CITY CENTER

Segment 3 includes approximately 3 miles of guideway and 6 stations; from the end of Segment 2 at the Middle Street Station to the Civic Center Station.

- Work continues on Downtown and Dillingham Utilities Relocation.
 - Downtown Utilities Relocation—Work began in June 2022; Completion expected in fourth quarter of 2024 (~\$217M)
 - Dillingham Utilities Relocation—Work began in December 2022; Completion expected in first quarter of 2026 (~\$500M)
- Contract procurement for the construction of the City Center Guideway & Stations began April 4, 2023 with the issuance of RFP Part 1; Contract award is expected in mid-2024.
- Guideway and station construction will begin as utility relocation is completed.



Halekauwila Street / South Street

City Center Utility Relocation Construction Progress

Ongoing activities

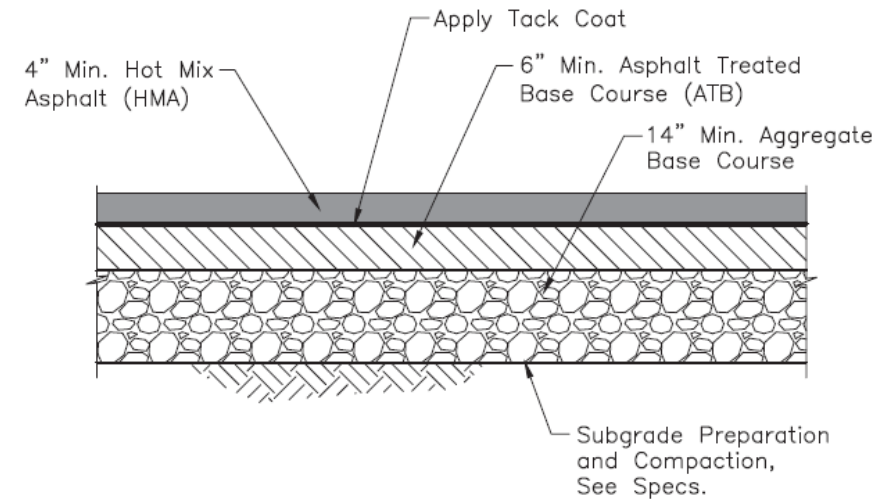
- Move existing utilities that conflict with the future guideway columns and stations.
- Repairing travel lanes and keeping sidewalks clear of obstructions other activities also include:
 - Potholing and excavation
 - Jet grouting
 - Traffic signal upgrades
 - Trenching throughout to install utilities
 - Steel plates are being installed for smoother transitions
 - Roadway paving and restoration
- Monitoring Environmental Impacts:
 - Noise, dust, and vibration is frequently monitored by HART and the Contractor
- Upcoming: Micro tunneling under the Kapalama Canal



City Center Utility Relocation Construction Progress

Future Road Rehabilitation Plan

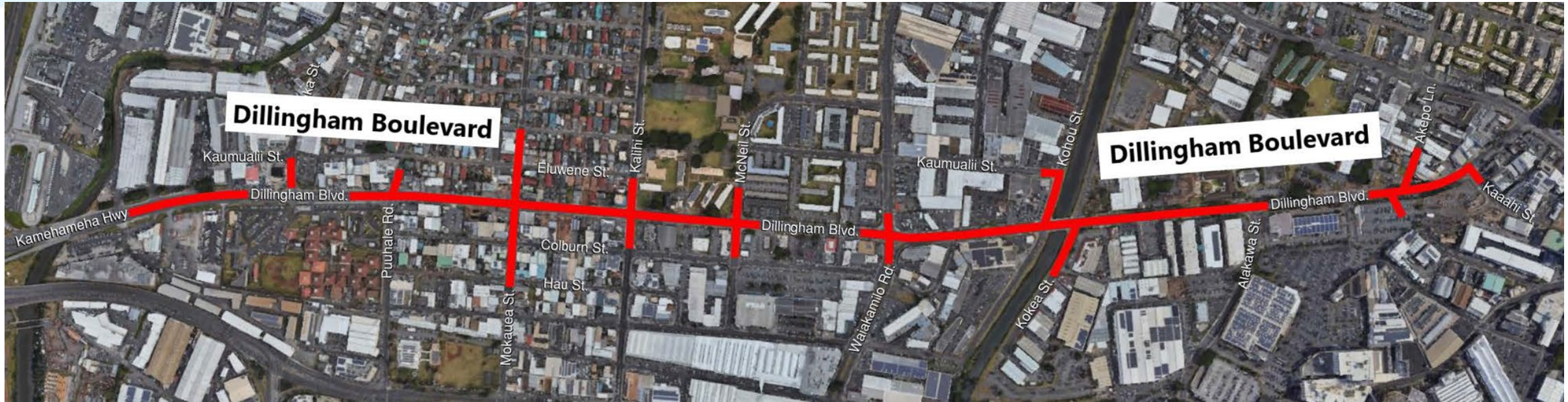
- After the completion of utilities relocation, the long term fixes for restoring the pavement will include:
 - 4" Mill and Overlay:
 - Existing pavement will be restored by milling and overlaying with 4" of asphalt concrete
 - 24" Full Depth HMA Pavement:
 - Following relocating utilities in areas where the roadway will be widened
- Subsequent to the completion of the guideway and station construction, the areas impacted will be milled and overlayed to address any damage caused during the construction process
- Damaged sidewalks will be repaired or replaced with new ones



24" FULL DEPTH HMA PAVEMENT SECTION
NTS

1
CD0032

Dillingham Utilities Relocation



- Construction started in December 2022; Completion expected in first quarter of 2026 (~\$500M)
- Work areas includes Kalihi-Palama and Iwilei with traffic impacts along the following streets:
 - Kamehameha Highway, Dillingham Boulevard, and all intersecting streets from Middle Street to Kaaahi Street
 - Work hours are Monday through Saturday, daytime, 7:00 am to 5:00 pm | nighttime, 7:00 pm to 5:00 am
 - Access to all properties is maintained

Downtown Utilities Relocation



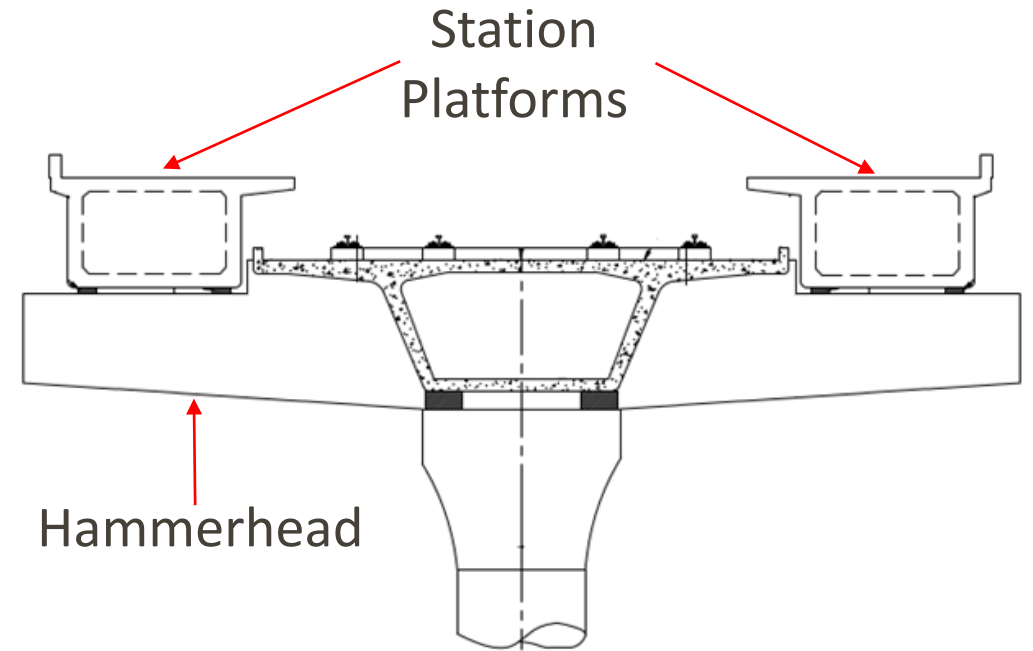
- Construction started in June 2022; Completion expected in fourth quarter of 2024 (~\$217M)
- Work areas include Iwilei, Downtown, Chinatown, and Kakaako with traffic impacts along the following streets:
 - Kaaahi Street, Iwilei Road, Nimitz Highway, Halekauwila Street, and other adjacent streets
 - Work hours are Monday through Saturday, daytime, 7:30 am to 5:30 pm | nighttime, 8:00 pm to 5:00 am
 - Access to all properties is maintained

Questions?



Hammerhead Repairs Complete

- All of the hammerhead repair and retrofit work was successfully completed on May 21, 2023, and it included:
 - Epoxy injection to eliminate cracks to protect against corrosion.
 - External post tension cables were installed to add additional structural strength.
 - Carbon fiber wrap added to provide surface tensile strength and protect against any future cracking.
- Collaborative process with Engineer of Record, DTS, HDOT, FTA/PMOC, and their respective structural engineers, on the analyses and the repair plan.



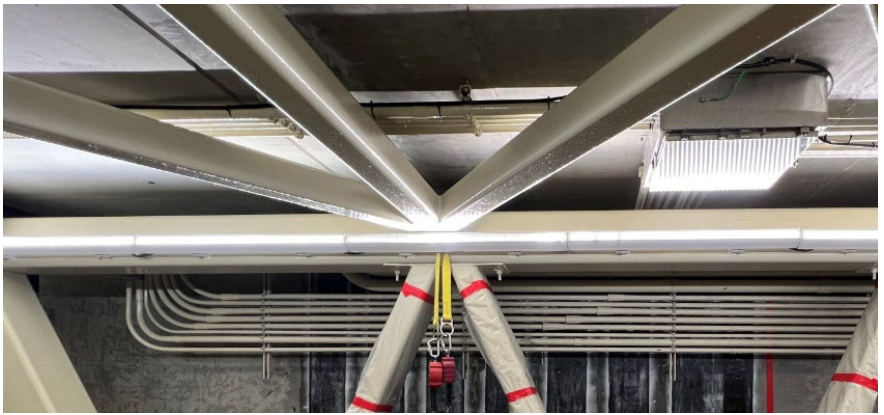
Hammerhead Repairs Complete



Hammerhead Repairs Complete



Hammerhead Repairs Complete



Hammerhead Repairs Complete



Public Restrooms

- Restrooms are available at all stations for urgent situations, and can be accessed by our customers with the help of a Station Operator.
- Nationwide, unlocked and open public restrooms without access controls encourage illicit activities and incur damage from vandalism and misuse. Most of North America's light rail and metro networks in cities like Vancouver, Seattle, Portland, Los Angeles, San Diego, Phoenix, Salt Lake City, and Minneapolis generally do not have restrooms available at stations. Other destinations including restaurants, offices, and school campuses have increased security and access-by-request to restrooms for the safety and comfort of all users of all ages and abilities.
- Rail station restrooms were designed to require secured access similar to many restaurants and other businesses.

Facility Maintenance

- Core System Contractor (Hitachi) is responsible for cleaning/janitorial
- Department of Transportation Services is responsible for landscaping/maintenance

Stay connected: Construction and rail operations

VISIT **HonoluluTransit.org**

Join our update meetings and subscribe to our eBlast to stay informed about the Honolulu Rail Transit Project!

For information about Skyline rail operations including fares, HOLO card, and schedules, visit the Department of Transportation Services website at:

Honolulu.gov/skyline

Skyline 808-848-5555 (Option 4) | Skyline@honolulu.gov

Mahalo!

HonoluluTransit.org | 24-Hour Project Hotline: 808-566-2299 | info@honolulustransit.org



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