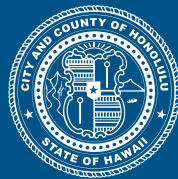




# Monthly Progress Report

DECEMBER 2023



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This report and all subsidiary reports are prepared solely for the FTA, and should not be relied upon by any party, except the FTA, its Project Management Oversight Contractors (PMOC), and the Honolulu Authority for Rapid Transportation (HART) Board of Directors, in accordance with the purpose as described in the next section.

## Report Format and Focus

This document is submitted in compliance with the terms of FTA Contract No. DTFT60-09-D-00012, Task Order No. 2. Its purpose is to provide information and data to assist the FTA as it continually monitors HART's technical capability and capacity to execute a project efficiently and effectively, and hence, whether HART continues to be ready to receive federal funds for further project development.

This document covers the project and quality management activities on the Honolulu Rail Transit Project managed by HART as the project sponsor and partially financed by the FTA under the Full Funding Grant Agreement (FFGA). Concurrent non-project activities and other items not covered by the FFGA may not be included.

## Information Regarding Forward-Looking Statements

This document includes forward-looking information. The words "believe", "anticipate", "expect", "intend", "aim", "plan", "predict", "continue", "assume", "positioned", "may", "will", "should", "shall", "risk" and any other similar expressions that are predictions of or indicate future events and future trends identifies forward-looking information. Forward-looking information includes all matters that are not historical facts. Readers should not place undue reliance on forward-looking information because it involves known and unknown risks, uncertainties and other factors that are in many cases beyond HART's control. By its nature, forward-looking information involves risks and uncertainties because it relates to events and depends on circumstances that may or may not occur in the future. Forward-looking information is not a guarantee of future performance, and HART's actual results of operations, financial condition, and the development of the industry in which it operates may differ materially from those made in or suggested by forward-looking information contained in this document. The cautionary statements set forth above should be considered in connection with any subsequent forward-looking information that HART, or persons acting on its behalf, may issue. Factors that may cause HART's actual results to differ materially from those expressed or implied by the forward-looking statements in this document include but are not limited to the risks described in HART's annual report. For projects funded through the FTA's New Starts program, the FTA and its PMOC use a risk-based assessment process to review and validate a project sponsor's budget and schedule. Any results of an FTA or PMOC risk-based assessment represent a "snapshot in time" for a particular project under the conditions known at that same point in time. The status of any assessment may be altered at any time by new information, changes in circumstances, or further developments in the project. Furthermore, any forward looking statements contained in this document are made as of the date of this report, and HART does not undertake any obligation to update publicly or to revise any of the included forward-looking statements, whether as a result of new information, future events or otherwise, except as expressly required by law.

### On the Cover:

Left: Āhua (Lagoon Drive) Station

Right Top: Lelepaua (Daniel K. Inouye International Airport) Station

Right Bottom: Makalapa (Joint Base Pearl Harbor-Hickam) Station

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**Deputy Executive Director and  
Chief Operating Officer (DED-COO)**  
Rick Keene

# 1 Summary

## Reporting Date and Subsequent Events

This report was published on January 19, 2024 for the PMOC meeting scheduled for January 24, 2024. Data is presented with a reporting cutoff date of December 31, 2023, unless otherwise noted.

## Overall Summary of Work in Place

	2022 Recovery Plan	Progress to Date	Progress (%)
Guideway In Place (miles)	18.9	15.9	84%
Stations Substantially Complete	19	9	47.4%
Vehicles Delivered	80	76	95%

## Core Accountability Items (\$ are in millions)

With the FTA’s acceptance of the 2022 Recovery Plan in September 2022, all of the Monthly Progress Report’s cost and schedule reporting has been updated to reflect the Ka’ākaukui (Civic Center) Station terminus.

The Incurred-to-date costs are cumulative through December 2023, and exclude third-party reimbursement costs. The \$5,587 million to date represents 66.01% of the EAC base cost without contingency. The Incurred-to-date costs increased by \$51 million for the period.

Core Accountability Items				
		2022 Recovery Plan*	Current Forecast*	Incurred to Date
<b>Cost</b>	<b>Capital Cost estimate</b>	<b>\$9,933</b>	<b>\$9,933</b>	<b>\$5,587</b>
<b>Contingency</b>	Unallocated Contingency	\$242	\$211	\$0
	Allocated Contingency	\$452	\$472	\$0
	<b>Total Contingency</b>	<b>\$694</b>	<b>\$684</b>	<b>\$0</b>
	Base Cost w/o Contingency	\$8,454	\$8,464	\$5,385
	<b>Total Project Capital Cost</b>	<b>\$9,148</b>	<b>\$9,148</b>	<b>\$5,385</b>
	Pre RSD Finance Charges (FFGA)	\$785	\$785	\$202
	<b>Total Project Cost</b>	<b>\$9,933</b>	<b>\$9,933</b>	<b>\$5,587</b>
<b>Schedule</b>	<b>Revenue Service Date</b>	<b>March-2031</b>	<b>March-2031</b>	

Numbers in the table above may not calculate correctly due to rounding.

\* Amounts are pending FTA/PMOC review and concurrence.

Project Progress		Amount	Percent of Total
Total Expenditures <sup>1</sup>		\$ 5,587	61.1%
Planned Value to date		\$ 3,496	61.8%
Actual Value to date		\$ 3,488	61.7%
Contract Status		Amount	Percent
Total Contracts Awarded <sup>2</sup>		\$ 6,221	68.0%
Construction Contracts Awarded <sup>3</sup>		\$ 3,372	72.5%
Physical Construction Completed <sup>4</sup>		\$ 2,713	58.4%

<sup>1</sup>Actual Cost of all eligible expenditures completed to date; percent calculated by taking Total Expenditures divided by \$9.148 billion

<sup>2</sup>Value of all contracts (design, support, construction, equipment) awarded; percent of total value to be awarded

<sup>3</sup>Value of construction contracts awarded; percent of total construction value to be awarded

<sup>4</sup>Value of physical construction completed; percent of total construction value completed

Next Quarterly Review Meeting Date:	December 13, 2023
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Grant Information			
FAIN* (source)	Federal Funds Obligated	Federal Funds Disbursed	% Disbursed
HI-03-0047-00	\$15	\$15	100%
HI-03-0047-00	\$20	\$20	100%
HI-03-0047-01	\$30	\$30	100%
HI-03-0047-02	\$55	\$55	100%
HI-03-0047-02	\$200	\$200	100%
HI-03-0047-03	\$236	\$236	100%
HI-03-0047-04	\$250	\$250	100%
Funds Not Obligated	\$744	\$0	0.0%

\*Federal Award Identification Number

**Overall Key Items**

- Major construction for City Center Utilities Relocation (CCUR) IV Dillingham continued in December 2023 with the Hawaiian Telcom (HTI) ductbank installations, as well as the 12 kilovolt (kV), 46kV and 138kV ductbank installations in Areas 1A and 1B. The critical path for CCUR IV is the HTI (Area 1A) ductbank installation and crossover, and HECO 138kV ductbank installations in Areas 1B and 1C.
- A contract for CCUR IV Dillingham Electrical was awarded to HMS Construction and Notice to Proceed (NTP) was issued on December 5, 2023.
- City Center Guideway and Stations (CCGS) Design-Build (DB) Procurement: Request for Proposals (RFP) Part 1 were received from Offerors on December 11, 2023; HART sent Instructions to Priority-Listed Offerors (ITPLO) for RFP Part 2 on December 27, 2023 (2 weeks ahead of schedule). Contract award and Notice to Proceed (NTP) is still planned for 2024.
- HART and STG came to a settlement agreement on STG's claim on the AGS contract in November 2023. The settlement was approved by the HART Board and change order executed in December 2023.

## 2 Body of Report

### 2.1 Plans Status List

The status of the Baseline Plans is shown below (NOTE: changes, if any, are in bold font):				
Owner	Plan	Revision Level	Issue Date	Status
Project Management (Nate Meddings)	Project Management Plan (PMP)	9.0	November 10, 2021	Approved
Safety and Security (Dave Goeres)	Construction Safety and Security Plan (CSSP)	7.0	April 14, 2023	Approved
	Safety and Security Certification Plan (SSCP)	10.0	August 30, 2023	Approved
	Safety and Security Management Plan (SSMP)	11.0	September 01, 2023	Approved
	Sensitive Security Information Plan	2.1	May 19, 2023	Approved
	Preliminary Hazard Analysis (PHA)	5.0	February 28, 2022	Approved
	System Threat and Vulnerability Assessment (TVA)	5.0	August 30, 2023	Approved
Quality Assurance (Trevor Johnson)	Quality Management Plan (QMP)	6.5	April 24, 2022	Approved
	Configuration Management Plan (CFMP)	6.0	January 18, 2023	Approved
Procurement, Contracts, and Construction Claims (Dean Matro)	Buy America Plan (BAP)	4.0	May 7, 2020	Approved
	HART Procurement Manual	2.0	July 30, 2020	Approved
Project Administration (Nate Meddings)	Contract Packaging Plan (CPP)	7.0	May 27, 2020	Approved
Budget and Finance (Rick Keene)	Project Financial Plan: 2022 Recovery Plan	2.0	June 03, 2022	Approved
Planning and Permitting (Vance Tsuda)	Before-and-After Study Plan	3.1	August 23, 2023	Approved
	Mitigation Monitoring Program (MMP)	4.0	June 29, 2020	Approved
Transit Property Acquisition and Relocation (Krista Lunzer)	Real Estate Acquisition Management Plan (RAMP)	8.1	August 24, 2023	Approved
Public Information (Joey Manahan)	Public Involvement Plan (PIP)	4.0	August 30, 2023	Approved
Construction (Matthew Scanlon)	Construction Management Plan (CMP)	6.1	August 31, 2023	Approved
Project Delivery, Integration & Testing (Vance Tsuda)	Interface Management Plan (IMP)	5.0	May 5, 2020	Approved
	System Integration Test Plan (SITP)	3.0	May 26, 2020	Approved
	Trial Operations Management and Oversight Plan	2.0	August 19, 2022	Approved
Operation and Maintenance (DTS)	Rail Fleet Management Plan (RFMP)	2.3	September 30, 2021	Approved
	Rail Operations and Maintenance Plan (OMP)	4.0	October 11, 2021	Approved
	Bus Fleet Management Plan (BFMP)	5.4	September 30, 2021	Approved
Core Systems, Integration & Project Delivery (Huy Huynh)	Rail Activation Plan	4.0	September 28, 2023	Approved
Administrative Services (Sandy Aguilar)	Staffing and Succession Plan	9.0	September 05, 2023	Approved

The status of the Baseline Plans is shown below (NOTE: changes, if any, are in bold font):				
Owner	Plan	Revision Level	Issue Date	Status
Risk Management (Nate Meddings)	Risk and Contingency Management Plan (RCMP)	4.0	June 09, 2020	Approved

## 2.2 Staffing

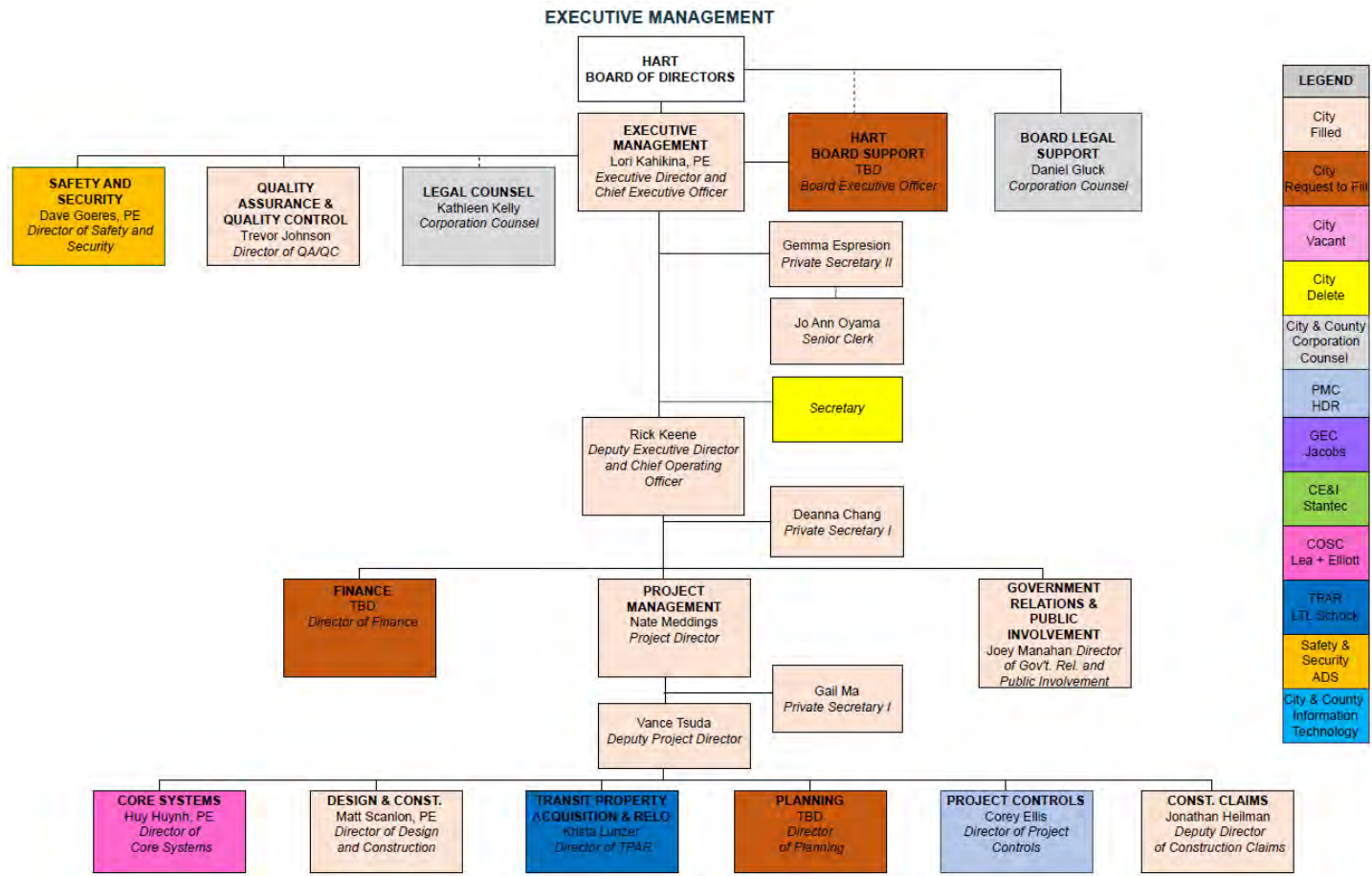
### Overview

- Project Staffing:
  - Filled City Positions as of December 31, 2023: 40 Employees: (31) Personal Services Contract [PSC] Employees, (7) Appointees, and (2) 89-day contracts.
  - Project Management Support Consultant (HDR) Staff Total as of December 31, 2023: 4.5 HDR employees embedded in the organization directly participating in the management of the project; 2 full-time equivalents, assisting on a part-time basis to support City Center procurement; and 1 full-time equivalent assisting on a part-time basis with risk modeling (statistical analysis and risk report production).

Staffing Activities: The following chart lists active personnel recruitments as of December 31, 2023; however, the list of active recruitments will change based on the needs of the organization.

Staffing Activities (Sorted by Status)			
Title	Division	Status	Start Date
<b>City Recruitments</b>			
Director of Planning and Environmental	Planning	On Hold	
Chief Financial Officer (Director of Finance)	Finance and Administrative Services	Recruiting	
HART Executive Officer of the Board	HART Board	Recruiting	
Board Staff Assistant	HART Board	Pending HART Board Action	
Human Resources Specialist II	Finance and Administrative Services	Selected	1/17/2024
Deputy Director of Finance	Finance and Administrative Services	On Hold	
Construction Claims Specialist (Construction Engineer)	Claims	Recruiting	
Records Management Analyst II	Project Controls	Recruiting	
Project Manager	Construction	Recruiting	
Civil Engineer V	Design and Construction	Recruiting	
Procurement and Contracts Manager	Procurement and Contracts	Recruiting	
Fiscal Officer I	Finance and Administrative Services	Recruiting	
Secretary III	Finance and Administrative Services	Recruiting	
Secretary III	Planning/Quality Assurance/Safety/Transit Property Acquisition and Relocation (TPAR)	Recruiting	
Fiscal Analyst II	Project Controls	Recruiting	
Data Processing Systems Analyst I	Quality Assurance/Quality Control	Recruiting	
<b>Configuration and Asset Manager</b>	Quality Assurance/Quality Control	Recruiting	
<b>Consultant Recruitments</b>			
Director of Planning & Environmental	Planning	Selected	2/1/2024
Project Controls Deputy Director	Project Controls	Selected	12/1/2023

Project Organization Chart



LEGEND
City Filled
City Request to Fill
City Vacant
City Delete
City & County Corporation Counsel
PMC HDR
GEC Jacobs
CE&I Stantec
COSC Lea + Elliott
TPAR LTL Strick
Safety & Security ADS
City & County Information Technology

## 2.3 Planning and Environmental

### Activities this Month

- Environmental Management**

- Continued to review soil disposal documents and prepare manifest.
- Continued to review construction designs and modify to avoid existing monitoring wells.
- Continued to review and implement requirements from right-of-entry agreements.
- Secure construction sites, remove drain inlets and perform post storm inspections for storm events.
- Coordinate document uploads with U.S. Environmental Protection Agency for updated Phase I Environmental Site Assessments. Submitted consolidation cell biannual inspection report.

- Programmatic Agreement (PA)**

The second draft of the Programmatic Agreement Amendment is ongoing and is expected to be shared with the Consulting Parties and Signatories prior to the January monthly meeting for discussion.

- Look Ahead**

- Finalize station interpretive signs at the end of January to begin manufacturing.



## 2.4 Contracts in Procurement

### Overview

- Awarded Contracts: The CCUR IV Dillingham – Electrical contract was awarded on November 21, 2023, and was executed on December 5, 2023.
- Active Procurements:
  - CCGS Part 2: The RFP Part 2 was released on December 27, 2023 via Addendum #6. The proposal due date is July 1, 2024.

Active Procurements					
Contract Code	Contract Name	Advertise Date	Bids or Proposals Due	Target NTP	Term/Substantial Completion
DB550	CCGS Part 2	December 27 '23	July 1 '24	N/A	N/A

Upcoming Procurements Under Evaluation				
Contract Code	Contract Name	Issue Date	Proposal Due Date	Award
HRT201	Independent Financial Auditor IV	January 2024	February 2024	March 2024

## 2.5 Design

### FD700: Design Services for 138kV Utilities Relocation at Kamehameha Highway Guideway (KHG)

**Contractor:** R.M. Towill Corporation (RMTc) **Contract Start Date:** September 2018  
**Contract Substantial Completion:** November 2021 (does not include pre-bid assistance and design support during construction)

**Project Description:** Architectural and Engineering Services for the final design to relocate the existing 138kV overhead electrical lines to underground lines at Kamehameha Highway Guideway and Stations.

#### Activities this Month:

- Navy review continues for the Hawaii Gas (HI Gas) preliminary drawings for the Aiea Block Valve and regulator station relocation work.
- Coordination is ongoing with HECO to refine easement boundaries.
- HECO’s design of poles at 95%. Geotechnical designer is reviewing pole design to complete final foundation design.

#### Look Ahead:

- Final estimate will be provided once HART receives costs for poles, conductors, and framing from HECO.
- Coordination will continue with the Navy on the review of HI Gas’ preliminary drawings.
- Revisions will be finalized for the ad-ready submittal.
- Coordination will occur with HECO on the overall construction schedule.
- Completion of HDOT’s review.

#### Key Issues (new issues are in bold font):

- None.

#### Schedule:

Progress		Schedule Status
Based on Expenditures*	79.2%	On time
Early Plan*	100%	
Late Plan*	100%	

\*Data as of December 31, 2023. Percent complete based on funds expended. Additional scope may be added to the contract due to potential changes in configuration.

#### Key Milestones (milestones that were achieved are shaded blue):



\*Pending discussions with HECO.

**Cost Summary:**

<u>Original Contract:</u>	<u>\$8,766,327</u>	<u>Incurred-to-Date:</u>	<u>\$6,958,946</u>
<u>Current Contract Value<sup>1</sup>:</u>	<u>\$8,766,327</u>	<u>Incurred in December:</u>	<u>\$19,420</u>

<sup>1</sup>Current Contract Value = Original contract value with Design Allowance + executed Change Orders

## 2.6 Transit Property Acquisition and Relocation (TPAR)

- Property acquisition activities for remaining properties needed for the H RTP are ongoing. Priority has been given to properties on the critical path for CCUR.
- Mapping activities continue for the property acquisitions that are needed along Halekauwila Street for guideway columns. Owner outreach is anticipated to begin in February for these new property acquisitions.

### General Acquisition Activities

The below tables will be used to report on the current status of acquisition activities. The information is extracted from the monthly TPAR status report. Note: anticipated acquisition totals are updated as designs are finalized and current Right-of-Way plans are reviewed.

Acquisition Summary – December 2023					
Note: All numbers are exclusive and are not accounted for in more than one column.					
Area	Up-Coming Acquisitions	Active Acquisitions		Closed Acquisitions	
	Pre-Acquisition	Access by Agreement	Properties Without Access	Acquired Easement or Agreement	Acquired in Fee
1	0	6	0	11	16
2	12	6	14	3	7
3	4	13	0	9	8
4 – 1a	1	2	7	0	8
4 – 1b	3	4	12	0	17
4 – 1c	3	1	2	2	5
4 – 2	0	3	2	3	3
4 – 3	2	0	0	0	3
4 – 4	21	1	0	7	1
Disposition of Utility Easements to HECO	Pre-Disposition	Active Disposition		Closed Disposition	
	2	12		4	

The below table includes details related to the acquisition milestone status for properties that are categorized as “Properties Without Access.”

Access Not Obtained					
Type of Ownership	Valuation	Offer	Negotiations	Acceptance	Condemnation
Area 2					
Private (138kV)	0	0	13	0	0
Government (138kV)	1	0	0	0	0
Area 4-1a through 4-4					
Private (City Center)	3	5	8	2	2
Government (City Center)	1	0	2	0	0

The below table includes details related to the pre-acquisition milestone status for properties not yet assigned to TPAR.

Pre-Acquisition				
Area	Design	Mapping	Third Party Review	Processing ARF
1	0	0	0	0
2	12	0	0	0
3	2	2	0	0
4 – 1a	0	1	0	0
4 – 1b	2	0	1	0
4 – 1c	2	0	1	0
4 – 2	0	0	0	0
4 – 3	0	2	0	0
4 – 4	6	11	4	0
Disposition of Utility Easements to HECO	1	0	1	0

Parcel Identification Number (PID) Status Summary	
Status	Total Parcels
Design	25
Mapping	17
Post-Record of Decision (ROD)	4
Environmental	0
Owner Outreach	5
Valuation	1
Offer	5
Negotiations	24
Acceptance	11
Eminent Domain	9
Conveyance	9
In Escrow	9
Acquired	103
Disposition	14
Completed Dispositions	4
On Hold	1
<b>Total</b>	<b>241</b>

**General Condemnation Actions**

- Below details current activities in condemnation actions:
  - 138kV Relocation along KHG:
    - PID 212: The use of eminent domain was approved for two easements on the property for electrical and signal light purposes. The easement rights to be condemned are under review. The approval process for the condemnation from the Board of Directors is anticipated to commence in March 2024.
  - Properties from Middle Street to Ka’ākaukui (Civic Center) Station:
    - PID 400: The parties are negotiating towards a settlement of the condemnation action. The DPP subdivision map has been approved and is in the process of being recorded with the Bureau of Conveyances.
    - PID 44041: Approval was obtained from the Board of Directors to commence condemnation for full fee interest in the property.
    - PID 433: There were no new activities related to this condemnation during the reporting period.
    - PID 459: The owner is exploring the possibility of redeveloping the property, which would require a change to the location of the transformer.
    - PID 505: Preparing to begin the Board approval process and reappraisal of the property. The condemnation approval process is anticipated to commence in February 2024.
    - PID 519: The Board of Directors approved for notification to be provided to the City Council regarding the intention to condemn an electrical easement on the property. Notice was provided to the City Council. The City Council has 45 days to request a hearing on the matter or to take no action.

**Status of Inter-Governmental Agreements**

The status of agreements with other government entities are summarized in the table below. Objectives are:

- 1) Obtain Construction Right of Entry, Executive Orders, Set Asides, Jurisdiction Transfers, Joint Use Agreements, licenses, easements, Memorandum of Understanding (MOUs), Memorandum of Agreement (MOAs), etc. with impacted government agencies. Government agencies include Federal (General Services Administration [GSA], Navy, United States Postal Service [USPS], Office of Interior), State (HDOT-Highways & Airport, Department of Land and Natural Resources [DLNR], Department of Accounting and General Services [DAGS], HCDA, Department of Education [DOE], Aloha Stadium, UH), and County Agencies (DTS, Department of Planning and Permitting [DPP], Department of Facility Maintenance [DFM], Budget and Fiscal Services [BFS], Department of Design and Construction [DDC], Department of Parks and Recreation [DPR], Department of Land Management [DLM], Department of Environmental Services [ENV]). Some government agencies may choose to issue the final documents after construction is substantially underway or near completion.
- 2) To help negotiate and/or obtain Rights of Entry for certain other construction-related activities as needed for design and construction. Such agreements may include geotechnical borings, soil testing, environmental surveys, bus stop agreements, construction lay down surveys, and other construction-related needs. There may be other Rights of Entry and Agreements which may not involve TPAR acquisition or relocation. Assistance will be provided, should requests be authorized and funded.
- 3) Agreements to be executed are in the table below. Executed agreements are in Appendix C, and while these parcels may be accessible at this time for construction, further documentation may also be required to complete the acquisition.

Inter-Governmental Agreements				
Agency	Pending Agreements	Target	Section	Notes/Remarks
<b>STATE AGREEMENTS</b>				
UH – University of Hawai‘i, West O‘ahu (125)	HECO Easement	March 2024	WOFH	An application for subdivision of the easements is with UH for execution. UH and HECO are negotiating the terms of the grant of easement. This agreement does not impact operations of Segment 1.
UH – University of Hawai‘i Leeward Community College (122)	HECO Easement	March 2024	WOFH	HECO approved the revised easement map, and an application for subdivision of the easements is being prepared to present to UH. UH and HECO are negotiating the terms of the grant of easement. This agreement does not impact operations of Segment 1.
UH – Urban Gardens (201A)	Conveyance to HDOT (H) – Dept. of Transportation Highways	March 2024	KHG	UH and HDOT are negotiating the Quitclaim Deed language. This agreement does not impact operations of Segment 1.
UH – Honolulu Community College (424A)	Construction Right of Entry (CROE) – CCGS	December 2024	City Center	HART and UH will enter into a CROE for construction work under the CCGS contract. UH provided HART with a list of requested mitigation measures to reduce the impacts to its campus for consideration. No further action is required at this time.
DLNR (124)	Guideway Easement	March 2024	WOFH	The guideway easement document is under review by DLNR. This agreement does not impact operations of Segment 1.
DLNR/C&C Wastewater Div. (437B)	Guideway Easement	March 2024	City Center	The guideway easement document is under review by DLNR.
DOE - Waipahu High School (118)	Guideway Easement (State-owned portion)	March 2024	WOFH	DLNR is processing the Land Court petition to designate the easement on the Land Court map. This agreement does not impact operations of Segment 1.
DLM – Kalihi Kai Elementary School (464)	HECO Easement (City-owned portion)	June 2024	City Center	A MOU is with the DOE for review. The MOU will govern construction requirements on the property and must be in place before a CROE can be issued.
DLNR – Kalihi Kai Elementary School (501)	HECO Easement and HART Column Easement (State-owned portion)	June 2024	City Center	A MOU is with the DOE for review. The MOU will govern construction requirements on the property and must be in place before a CROE can be issued.
Aloha Stadium/DAGS (207)	Station and Guideway Use and Occupancy Agreement	October 2024	KHG	A Use and Occupancy agreement is being negotiated between the parties. An extension to the existing CROE that allows for operation of Segment 1 has been issued through October 2024.
Aloha Stadium/DAGS (207)	Park and Ride/Bus Interface License Agreement	October 2024	KHG	The parties are negotiating a license agreement. An extension to the existing CROE that allows for operation of Segment 1 has been issued through October 2024.
HCDCA (444A, 450, 4463B1, 475, 475C, 515)	Construction ROE, License Agreement, & Final Disposition	March 2024	City Center	Negotiations with HCDCA in progress.
DAGS (441A)	Guideway and Utility Easements	March 2024	City Center	Mapping complete, negotiations on hold pending CCGS.
DAGS (443B)	Guideway Easement	March 2024	City Center	Mapping for utility easements affecting PID 443A complete. DAGS/DLNR preparing Board submittal for ROE for utility construction.
<b>FEDERAL AGREEMENTS</b>				
USPS (301)	Permanent Easement	February 2024	Airport	Mapping revisions to DPP map in process. Approval deferred pending comments from HDOT.
U.S. Gov't/GSA/Federal Courthouse (443C)	Quitclaim Easement Documents for Utility and Guideway Easements	March 2024	City Center	Mapping in process.
<b>OTHER AGREEMENTS</b>				

Inter-Governmental Agreements				
Agency	Pending Agreements	Target	Section	Notes/Remarks
D.R. Horton (DRH) (101B)	Drainage Easement	February 2024	WOFH	The need for the drainage easement is under review due to grading in the area. This agreement does not impact operations of Segment 1.
D.R. Horton (101B)	Guideway Easement	February 2024	WOFH	Negotiation of the Guideway easement language is ongoing. Proposed edits to the easement are with DRH for consideration. The CROE amendment was granted that allows for operation of Segment 1 is in effect until February 29, 2024.
D.R. Horton (101B)	Station Easement	February 2024	WOFH	The Station Easement terms will be negotiated after the Guideway Easement is finalized. The CROE amendment was granted that allows for operation of Segment 1 is in effect until February 29, 2024.

## 2.7 Hawai‘i Department of Transportation (HDOT) Agreements

### Activities this Month

- The remaining punch list items for WOFH and KHG continue to be discussed in regards to required actions for closure. Actions on agreed punch list items are ongoing.
- HDOT’s review of the WOFH Utility Abandonment MOU and the WOFH Master Agreement Amendment (AMD) has been completed as of May 1, 2023. DTS and HART to review both agreements.
- HDOT WOFH JUOA AMD 1. HART and DTS have completed their review. The terms of the agreement will be further discussed and negotiated.
- The Hawaiian Telcom (HTI) WOFH Utility Use and Occupancy (UU&O). HTI has requested changes to the UOA, under Hwy-R review.
- The Spectrum WOFH UOA comments and questions continue to be addressed. Revised UOA from HDOT is forthcoming. HART/HDOT to send UOA and final drawings to Spectrum.
- The Hawaii Gas WOFH UOA comments and questions continue to be addressed. Revised UOA from HDOT is forthcoming. HART/HDOT to send UOA and final drawings to Hawaii Gas.

### Look Ahead

- HDOT’s KHG Joint Use and Occupancy agreements: Drawings have been provided to the following agencies for their review: Hawaii Gas, HTI, Spectrum, Board of Water Supply (BWS).
- Revised UOA from HDOT is forthcoming for ENV.

## 2.8 Utility Agreements

### Overall Key Issues

- There are currently no major Utility agreement issues. For a status matrix of the H RTP’s Utility agreements, please see Appendix D.
- HECO counsel and COR counsel are to conduct privileged “settlement negotiations” on the Kaaahi Substation, but have not done so yet.

## 2.9 Permits

### Permits Submitted and In-Progress

- Received renewed permit to excavate dry utilities and roadway on Dillingham Boulevard from Department of Planning and permitting (DPP) until November 2024.

HART submitted noise variance and permit extensions for the Airport Guideway and station contracts.

### Look Ahead

- Close out permits no longer needed.

## 2.10 Construction

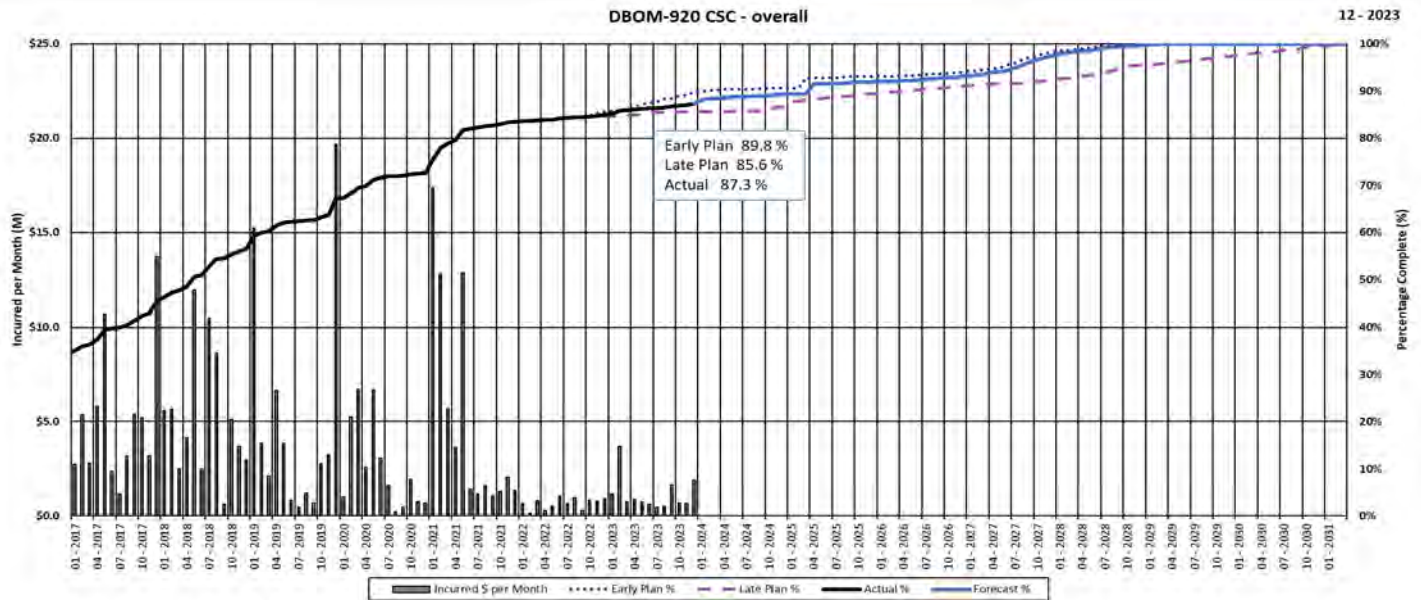
### DBOM920: Core Systems Contract (CSC)

**Contractor:** Hitachi Rail Honolulu Joint Venture (HRH)  
**Contract Substantial Completion:** January 1, 2025

**Contract Start Date:** January 2012  
**Projected Completion of Work:** October 2029

**Project Description:** A design, build, operate and maintain contract to provide rail passenger vehicles (PV), automated train control (ATC) system, traction electrification system (TES), communication systems (COMM), passenger platform screen gates (PSGS), Supervisory Control and Data Acquisition (SCADA) and operation and maintenance (O&M) of the Core Systems.

**Overall Status:**



Data as of December 29, 2023. Note: The graph is based on internal calculations, and will be updated once HRH submits a schedule with costs projected out to 2029.

**Progress for Operational Readiness #2 Core Systems Installation Progress:**

**Core System Equipment  
Installation Progress**



**Legend: Green = Core Systems equipment installation completed**

**Orange = Core Systems equipment installation remaining**

**Activities this Month:**

**Manufacturing:**

- Passenger Vehicle (PV) #20 assembly is ongoing in Miami, Florida. PV #20 is projected to be shipped from Miami, Florida in Q1 2024.

**Segment 1:**

- HRH continued to close out punch list items.
- Tested Onboard ATC software (Baseline 17) is in progress. This baseline software version addresses 2 punch list items for Segment 1.

**Installation and Testing, Operational Readiness #2:**

- Temporary Operation Control Center (TOCC) at the Maintenance and Storage Facility (MSF)
  - Established backbone network communications from TOCC to Āhua (Lagoon Drive) and Kahauiki (Middle Street Transit Center). Train Control and Communications Rooms (TCCRs).
  - Continued TOCC configuration for Fire Detection and Activation System (FDAS) for Segment 2.
- Substantially completed TES cable pulls from System Site #28 to guideway.
- Conducted continuity and meggering tests and termination of TES cables to Segment 2 third rails.
- Continued to install COMMs equipment at the TCCR, platform level, concourse level, and ground level of Lelepaua (Daniel K. Inouye International Airport) Station.
- Started COMMs cable megger testing and continuity testing at Lelepaua (Daniel K. Inouye International Airport) Station.
- Continued testing the Communication Transmission System (CTS) between TOCC and Makalapa (Pearl Harbor Naval Base), Lelepaua (Daniel K. Inouye International Airport) TCCRs, Āhua (Lagoon Drive), and Kahauiki (Middle Street Transit Center) TCCRs. Station Local Area Network (SLAN) testing was completed for Makalapa (Pearl Harbor Naval Base) and Lelepaua (Daniel K. Inouye International Airport) TCCRs.
- Installation of FDAS devices at Lelepaua (Daniel K. Inouye International Airport) Station.
- Continued onboard Comms and ATC equipment testing for PV#5.
- Completed Platform Screen Gates System (PSGS) on-site testing at Āhua (Lagoon Drive) Station.

- Started PSGS installation at Kahauiki (Middle Street Transit Center Station).
- Started PSGS cable megger testing and continuity testing at Kahauiki (Middle Street Transit Center) Station.
- Substantially completed Phase 2 testing of Wayside ATC equipment.
- Continued to install cable trough lids on Segment 2 guideway.
- Commenced installation of mainline safety signage.

**Look Ahead:**

- Conduct Onboard COMMs and Onboard ATC Routine Acceptance Test (RAT) for the remaining onsite trains (PV#2, PV#3).
- Permanent third rail energization of Segment 2.
- Complete COMMs installation and testing of equipment at Lelepaua (Daniel K. Inouye International Airport) Station.
- Complete ATC Wayside Equipment testing in Segment 2.
- Complete testing of COMMs equipment at Makalapa (Pearl Harbor Naval Base) Station.
- Complete FDAS equipment installation at Lelepaua (Daniel K. Inouye International Airport) Station.
- Complete SCADA equipment installation at Lelepaua (Daniel K. Inouye International Airport) Station.
- Start COMMs, FDAS and SCADA installation at Kahauiki (Middle Street Transit Center) Station.

**Key Issues:**

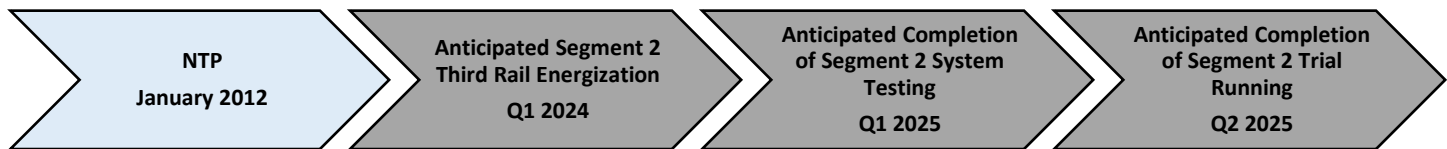
Key Issues with Contractor Proposal	
Title	CPC Code
	N/A

Legend: A = less than \$1 million; B = \$1 million-\$5 million; C = greater than \$5 million; P = pending contractor submittal

Design & Construction		Vehicles	Schedule Status
Physical % Complete*	87.3%	98.3%	4 years and 10 months behind
Early Plan*	89.8%	99.9%	
Late Plan*	85.6%	96.8%	

\*Data as of December 31, 2023. The percentages are based on internal calculations, and will be updated once HRH submits a schedule with costs projected out to 2029.

**Key Milestones** (milestones that were achieved are shaded blue):



**Cost Summary:**

Description	Current Period (December-2023)			O&M
	FFGA	Non FTA CIP	Total CPP	
1. Original Contract <sup>1</sup>	544,352,164	29,826,002	574,178,166	823,604,300
2. Approved Change Orders	161,760,543	51,472,679	213,233,221	-
<b>3. Current Contract Value (1+2)</b>	<b>706,112,707</b>	<b>81,298,680</b>	<b>787,411,387</b>	<b>823,604,300</b>
4. Pending Changes	-	-	-	-
5. Potential Changes	33,457,402	-	33,457,402	58,014,164
6. Potential Claims	-	-	-	-
7. Non-Contractual Expenses	-	-	-	-
<b>8. Total Forecast (3+4+5+6+7)</b>	<b>739,570,109</b>	<b>81,298,680</b>	<b>820,868,789</b>	<b>881,618,464</b>

<sup>1</sup>Amount includes multiple contracts within the same CPP



**DBB921: Passenger WiFi System**

**Contractor:** Icomera US, Inc.

**Contract Start Date:** September 2020

**Contract Substantial Completion:** September 2022

**Projected Completion of Work:** June 2024

**Project Description:** Design, procure, provide and test a complete functional Passenger WiFi System (PWS), including all equipment and services for passengers to have WiFi access to the internet from all of the twenty (20), four-car trains.

**Activities this Month:**

- Continued biweekly meetings, coordination, and system performance testing activities.
- WiFi service is online on revenue service trains.
- Completed testing of WiFi equipment in PV #20 in Miami.

**Look Ahead:**

- Delivery and handover of remaining spare parts to the Department of Transportation Services.

**Key Issues:**

Key Issues with Contractor Proposal	
Title	CPC Code
• None	N/A

Legend: A = less than \$1 million; B = \$1 million-\$5 million; C = greater than \$5 million; P = pending contractor submittal

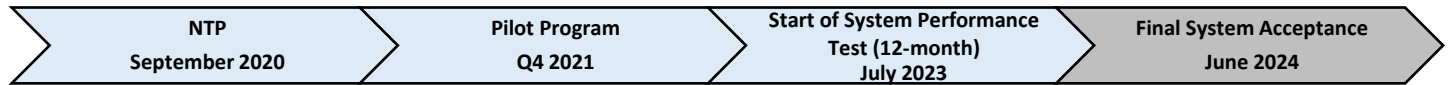
**Schedule:**

- The System Performance Test continues through June 2024.

Progress		Schedule Status
Physical % Complete*	89.1%	21 months behind
Early Plan*	100%	
Late Plan*	100%	

\*Data as of December 31, 2023.

**Key Milestones** (milestones that were achieved are shaded blue):



**Cost Summary:**

Description	Current Period (December-2023)		
	FFGA	N/A	Total CPP
1. Original Contract	1,219,858	-	1,219,858
2. Approved Change Orders	-	-	-
<b>3. Current Contract Value (1+2)</b>	<b>1,219,858</b>	<b>-</b>	<b>1,219,858</b>
4. Pending Changes	-	-	-
5. Potential Changes	-	-	-
6. Potential Claims	-	-	-
7. Non-Contractual Expenses	-	-	-
<b>8. Total Forecast (3+4+5+6+7)</b>	<b>1,219,858</b>	<b>-</b>	<b>1,219,858</b>

**MI930: Elevators and Escalators (E&E) Manufacture-Install-Maintain (MIM)**

**Contractor:** Schindler Elevator Corporation

**Contract Start Date:** August 2013

**Contract Substantial Completion:** December 2024

**Projected Completion of Work:** TBD (see the Schedule section below)

**Project Description:** A contract to design, fabricate, install, test, commission, and maintain all elevators and escalators at all stations.

**Activities this Month:**

- Substantially completed the last AGS unit, Elevator #3 at Kahauiki (Middle Street Transit Center) Station.

**Look Ahead:**

- Final adjustments, after STG completes glazing, will be complete in Q1 of 2024.
- Initial HIOSH Inspections will be performed in Q2 of 2024.
- Commence pre-operations maintenance services of all AGS Units (13 Elevators + 3 Escalators = 16 Units) in January 2024.

**Key Issues:**

**Key Issues with Contractor Proposal**

Title	CPC Code
• None	N/A

Legend: A = less than \$1 million; B = \$1 million-\$5 million; C = greater than \$5 million; P = pending contractor submittal

**Schedule:**

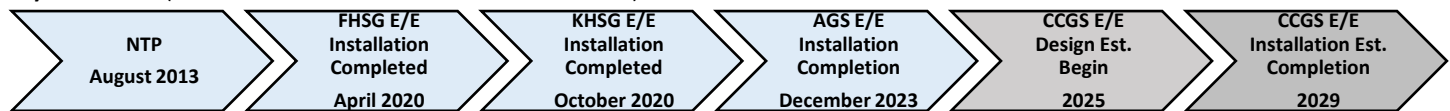
- The AGS elevator/escalator (E/E) installation was substantially completed in December 2023.
- The E/E final completion date will be determined once CCGS contract is awarded and scheduled installation dates are established.

Progress		Schedule Status
Physical % Complete*	71.9%	Just in Time**
Early Plan*	77.1%	
Late Plan*	TBD	

\*Data as of December 31, 2023

\*\*The E&E schedule is dependent on other contractors' schedules. Actual release for manufacturing will be coordinated for a 'just in time' delivery.

**Key Milestones** (milestones that were achieved are shaded blue):



**Cost Summary:**

Description	Current Period (December-2023)			O&M
	FFGA	Non FTA CIP	Total CPP	
1. Original Contract	43,723,132	8,929,605	52,652,737	21,713,236
2. Approved Change Orders	10,186,035	-	10,186,035	-
<b>3. Current Contract Value (1+2)</b>	<b>53,909,167</b>	<b>8,929,605</b>	<b>62,838,772</b>	<b>21,713,236</b>
4. Pending Changes	-	-	-	-
5. Potential Changes	-	-	-	-
6. Potential Claims	-	-	-	-
7. Non-Contractual Expenses	-	-	-	-
<b>8. Total Forecast (3+4+5+6+7)</b>	<b>53,909,167</b>	<b>8,929,605</b>	<b>62,838,772</b>	<b>21,713,236</b>

**MI900: Fare Collection System**

**Contractor:** INIT, Innovations in Transportation, Inc.

**Contract Start Date:** April 2016

**Projected Completion of Design-Build Work:** March 2031

**Project Description:** The fare collection system is a joint HART and City and County of Honolulu [Department of Transportation Services (DTS), Department of Information Technology (DIT), BFS] project that will consist of a multi-modal, closed loop, account based smart card system. The Fare System vendor, INIT Innovations in Transportation, Inc., is responsible for design, manufacture, testing, installation and operation of the entire system inclusive of hardware and software.

The rail portion of the project will consist of Ticket Vending Machines (TVMs) and fare gates at stations that accept smart cards which can also be used for payment on board TheBus and facilitate a seamless transfer between modes. Equipment and software to be used by both HART and the City and County will include transaction processing, fare equipment monitoring, and customer service systems, as well as a Data Warehouse. TheBus equipment will consist of stand-alone smart card readers on board.

**Activities this Month:**

- Continued to work with INIT to input data from Segment 2 into the Project Management Information System (PMIS).
- Received and stored all of Segment 2 faregate equipment in Pasha Yard.
- Received and stored all the TVM and faregate equipment spares in December 12, 2023.
- Worked with Jacobs staff on reviewing and approving as-built CDRL's.
- Received and imported City badge cards into the Media Inventory Management System.
- Continued to work on the installation, commissioning and testing schedule for Segment 2.
- Refined the Fare Collection portion of the procurement documents for City Center Guideway and Station (CCGS) contract.

**Look Ahead:**

- Evaluate cost savings options regarding timeline for Segment 2's installation, commissioning and testing activities.
- Perform final pre-installation inspection for Segment 2 stations being scheduled to take place from January 10 to 11. Schedule coordination meetings between INIT and HRH to discuss installation and testing in Segment 2 stations.

**Key Issues:**

Key Issues with Contractor Proposal		CPC Code
Title		
None		N/A

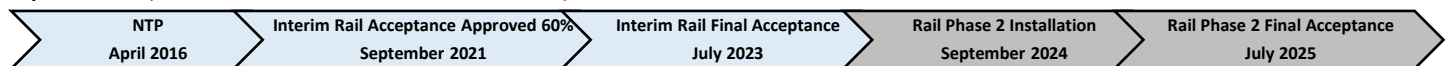
Legend: A = less than \$1 million; B = \$1 million-\$5 million; C = greater than \$5 million; P = pending contractor submittal

**Schedule:**

Progress		Schedule Status
Based on Expenditures*	88.4%	12 Months Behind Milestone Schedule Payment**
Early Plan*	87.8%	
Late Plan*	87.8%	

\*Data as of December 31, 2023. Operations and Maintenance (O&M) costs are not included in the calculations.  
 \*\*Although the contract is 12 months behind schedule, it does not impact Operational Readiness.

**Key Milestones** (milestones that were achieved are shaded blue):



**Cost Summary:**

Description	Current Period (December-2023)				
	FFGA	DTS	Non FFGA CIP	Total CPP	O&M
1. Original Contract	10,876,803	11,876,803	1,000,000	23,753,605	8,852,193
2. Approved Change Orders	1,473,579	85,981	-	1,559,560	-
<b>3. Current Contract Value (1+2)</b>	<b>12,350,382</b>	<b>11,962,784</b>	<b>1,000,000</b>	<b>25,313,165</b>	<b>8,852,193</b>
4. Pending Changes	-	-	-	-	-
5. Potential Changes	-	-	-	-	-
6. Potential Claims	-	-	-	-	-
7. Non-Contractual Expenses	-	-	-	-	-
<b>8. Total Forecast (3+4+5+6+7)</b>	<b>12,350,382</b>	<b>11,962,784</b>	<b>1,000,000</b>	<b>25,313,165</b>	<b>8,852,193</b>

**MM-949: On-Call Construction IV**

**Contractor:** Royal Contracting Co., Ltd.  
**Contract Substantial Completion:** January 2025

**Contract Start Date:** January 2018  
**Projected Completion of Work:** January 2025

**Project Description:** This is an on-call contract to perform a variety of construction services by issuance of Task Orders. The construction services to be provided will include, but are not limited to, maintenance, renovations to existing privately owned properties, demolition of buildings/structures, repairs to existing HART facilities, temporary utilities installations, utilities relocation, new construction projects or services, maintenance of roadways inclusive of, filling potholes, removing dead animals, landscape maintenance, repairing/replacing signage, and other such activities to HDOT and/or City and County of Honolulu standards, work in support of ongoing construction activities, and work in support of other contractors.

**Activities this Month:**

- Continued the replanting of the landscaping located on the Waikele Slope portion of the Farrington Highway median (HDOT Punchlist item).
- Perform Joint Use and Occupancy Agreement (JUOA) maintenance (foliage trimming) on Kamehameha Highway between Hālawā Drive and Center Drive.

**Look Ahead:**

- Installation of chainlink fence at Kahauiki Village ROW at Nimitz Highway.
- Begin crash attenuator installation at Kamehameha Highway and Salt Lake Boulevard.

**Key Issues** (new issues are in bold font):

- Complete HDOT punchlist items along Kamehameha Highway and Farrington Highway.

**Schedule:**

The On-Call Contract is a Task Order based Indefinite Delivery/Indefinite Quantity (IDIQ) contract. The work consists of meeting the H RTP’s objectives. Below, please find a list of active Task Orders being worked on.

Task Order Number	Description - On-Call IV Contract	Date Issued	Initial Completion Date	Planned Completion Date	Original Dollar Cost	Current Amended Dollar Cost	Billed Amount
5	HDOT Maintenance from WOFH Right-of-Way (ROW) to East End of H RTP ROW	2/28/2018	6/29/2021	12/31/2024	\$1,721,853.38	\$4,000,000.00	\$3,859,723.96
6	Maintain HART Properties	2/28/2018	12/29/2020	12/31/2024	\$544,677.79	\$1,100,000.00	\$896,391.06
13	Assist AGS Contractor with Out of Scope Activities	4/8/2018	12/31/2020	12/23/2024	\$1,015,447.77	\$2,100,000.00	\$1,898,572.06
81	Modifications to Nine Western Stations at Column 131	5/17/2020	6/29/2021	12/31/2024	\$1,058,117.48	\$3,200,000.00	\$2,928,206.56
94	Complete punchlist items along Kamehameha Highway	7/01/2021	12/31/2021	12/31/2024	\$299,594.53	\$1,975,000.00	\$1,587,281.10
95	Complete punchlist items along Farrington Highway	7/01/2021	12/31/2021	12/23/2024	\$299,594.53	\$1,975,000.00	\$1,753,660.83
99	Landscape modifications and security modifications to the Federal Building	10/03/2021	12/31/2022	12/31/2024	\$771,865.93	\$1,171,865.93	\$938,610.28
103	Station Maintenance	6/14/2022	12/31/2022	12/31/2024	\$344,012.48	\$900,000.00	\$704,791.83
107	Aloha Stadium Fire Hydrant	9/09/2022	12/31/2022	12/23/2024	\$653,177.67	\$850,000.00	\$814,832.38
108	Station Signage	9/22/2022	3/31/2023	12/31/2024	\$497,486.08	\$650,000.00	\$484,860.89
109	Raised Crosswalk at Kuala Street	6/01/2023	8/31/2023	8/31/2023*	\$133,701.53		\$131,371.29
110	LDS Utility Relocations	8/11/2023	8/31/2024	8/31/2024	\$99,185.42		\$74,691.66
111	Support of AGS Rail Acceptance	12/04/2023	12/31/2024	12/31/2024	\$878,660.01		\$0
112	Hitachi Access Training	12/04/2023	12/31/2024	12/31/2024	\$81,592.71		\$0

\*Work is complete and final billing is pending.

Progress		Schedule Status	
Based on Expenditures*	73.0%	On Time	
Early Plan*	100%		
Late Plan*	TBD		

\*Data as of December 31, 2023.

**Key Milestones** (milestones that were achieved are shaded blue):



**Cost Summary:**

Description	Current Period (December-2023)			
	Original TO	Amendments	Total CPP <sup>1</sup>	Non FFGA CIP
1. Awarded TOs & Amendments	47,982,656	28,520,009	76,502,664	2,161,155
2. Unawarded portion of Contract	-	-	21,436,180	-
<b>3. Current Contract Value (1+2)</b>	<b>47,982,656</b>	<b>28,520,009</b>	<b>97,938,845</b>	<b>2,161,155</b>
4. Pending Changes	-	-	-	-
5. Potential Changes	-	-	-	-
6. Potential Claims	-	-	-	-
<b>7. Total Forecast (3+4+5+6)</b>	<b>47,982,656</b>	<b>28,520,009</b>	<b>97,938,845</b>	<b>2,161,155</b>

<sup>1</sup>Original Contract was awarded at \$46,000,000; Total Change Order amount added to contract is \$51,938,845.

\$97,938,845 is the Total Awarded Contract Value.

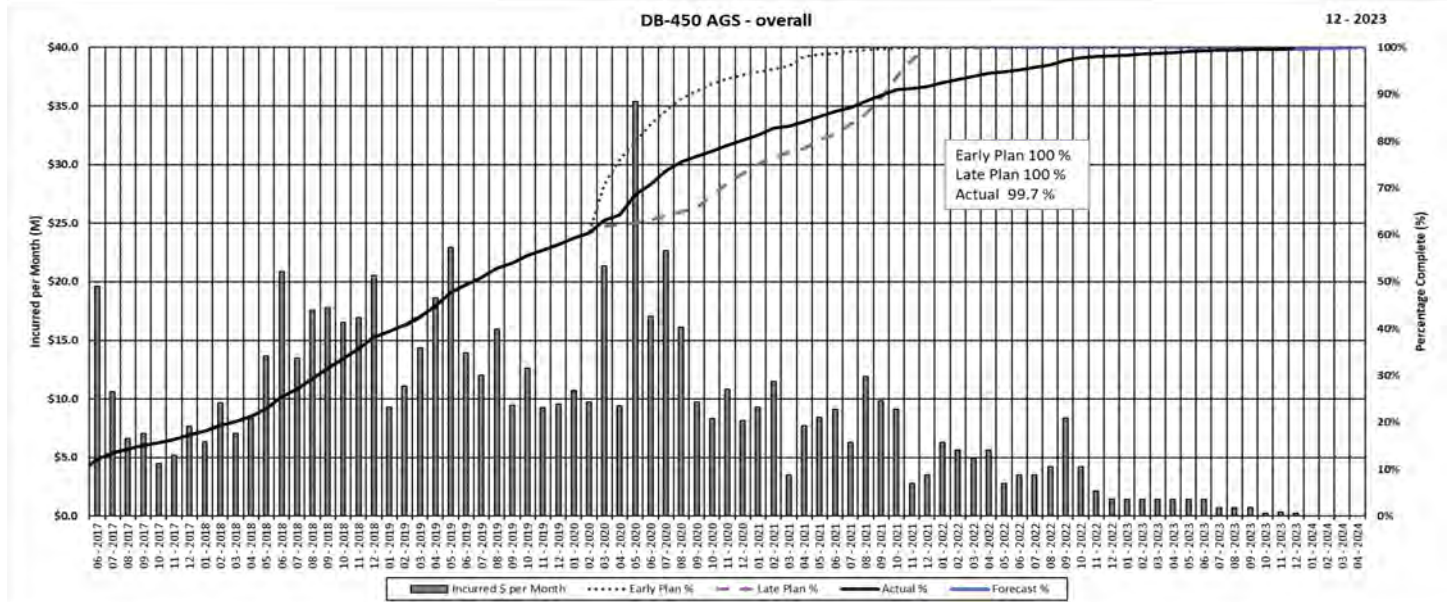
**DB450: Airport Guideway and Stations (AGS)**

**Contractor:** Shimmick/Traylor/Granite, JV (STG)  
**Contract Substantial Completion:** February 2024

**Contract Start Date:** December 2016  
**Projected Completion of Work:** March 2024

**Project Description:** The Airport Guideway and Stations Design-Build contract consists of the design and construction of 5.2 miles of elevated guideway, four (4) stations, and associated facilities between Aloha Stadium and the Middle Street Transit Center. The contractor will begin by interfacing with design disciplines, third-party stakeholders, and construction contracts within the corridor of the project to coordinate and resolve utilities conflicts. Design field verification efforts (potholing and geotechnical exploration) will be followed by construction activities once design packages have been approved.

**Overall Status:**



Data as of December 29, 2023.

**Activities this Month:**

AGS Construction Status as of 11/30/2023			
	Total to Date	Total Qty	% Complete
<b>Guideway Structure Element</b>			
Shafts	225	225	100%
Columns	232	232	100%
Segment Casting	2,708	2,708	100%
Spans Stressed	210	210	100%
Spans Grouted	210	210	100%
Track 1 rail work	210	210	100%
Track 2 rail work	210	210	100%
Track 1 Third Rail	210	210	100%
Track 2 Third Rail	210	210	100%
Center Walkway/Cable Tray	210	210	100%
Mill & Overlay (Square Yard [SY])	58,097	58,330	99.6%
<b>Stations</b>			
Makalapa (Pearl Harbor Naval Base)			99.4%
Lelepaua (Daniel K. Inouye International Airport)			99.4%
Āhua (Lagoon Drive)			98.7%
Kahauiki (Middle Street Transit Center)			97.2%

**Guideway, Rail and Utility Work**

- STG submitted the Final track geometry reports for all Reaches; track geometry does not meet contract specifications and adjustments to the track will be necessary. HART/STG is working on solutions.
- HECO provided power to all stations and system sites.

**Makalapa Station at Pearl Harbor Naval Base (PHNB)**

- Installation of the exterior sheathing platform stairs cladding is ongoing.
- Continue installing heavy gage gutters along elevated walkways.
- Commenced installation of irrigation for landscaping.

**Lelepaua Station at Daniel K. Inouye International Airport**

- Continue installation of heavy gage gutters along elevated walkways.
- Continue installing architectural metal cladding at pedestrian bridges.
- NCR corrections to stairs and concrete finishes.

**Āhua Station at Lagoon Drive**

- Installation of irrigation for landscaping.
- Installing balustrades and mesh at stairs 3 & 4.
- Completed lighting commissioning.

**Kahauiki Station at Middle Street Transit Center (MSTC)**

- Continue installation of the balustrades.
- Continue installing of cladding for ancillary rooms and platform stairs.
- Place framing for ceiling metal soffit.
- Install glazing for elevator 3.
- Completed HVAC piping for Concourse ancillary rooms.

**Look Ahead:**

**Guideway, Rail and Utility Work**

- Finalize track geometry.
- Complete the service connection at Landscape Hawaii (Zone 8).

**Makalapa Station at Pearl Harbor Naval Base**

- Complete station cladding.
- Complete the architectural fencing.
- The heating, ventilation, and air conditioning (HVAC) will be commissioned.

**Lelepaua Station at Daniel K. Inouye International Airport**

- Complete the architectural cladding.

**Āhua Station at Lagoon Drive**

- Installation/relocation of the electrical room communication cabinets.
- Remaining conduit infrastructure will be completed.

**Kahauiki Station at Middle Street Transit Center**

- Complete cladding of the ancillary rooms.
- Complete elevator glazing.

The Makai platform girder topping slabs will be completed.

**Key Issues:**

Key Issues with Contractor Proposal		CPC Code
Title		
• ITS IP Based Design		B
• FDAS Conduit Sizing - CSC Change		B
• System Site 28 Automatic Transfer Switchgear		A
• Spans 590-592 Falsework		P
• Platform Changes - CSC Interface		B
• Reconciliation of Unused Funds		P
• Revised Substantial Completion Date - TIA 2 and 3		C

Legend: A = less than \$1 million; B = \$1 million-\$5 million; C = greater than \$5 million; P = pending contractor submittal

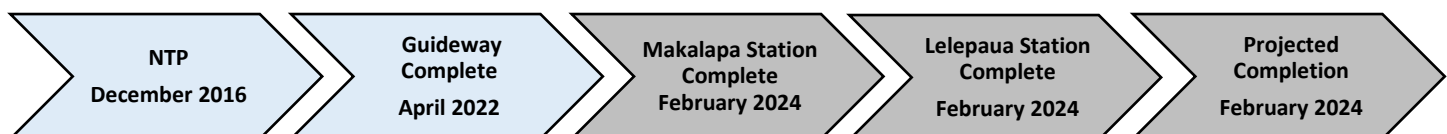
**Schedule:**

- HART and STG negotiated a substantial completion date of February 29, 2024.

Progress		Schedule Status
Physical % Complete*	99.7%	24 months behind
Early Plan*	100%	
Late Plan*	100%	

\*Data as of December 31, 2023.

**Key Milestones** (milestones that were achieved are shaded blue):



Cost Summary:

Description	Current Period (December-2023)		
	FFGA	N/A	Total CPP
1. Original Contract	874,750,000	-	874,750,000
2. Approved Change Orders	115,250,000	-	115,250,000
<b>3. Current Contract Value (1+2)</b>	<b>990,000,000</b>	<b>-</b>	<b>990,000,000</b>
4. Pending Changes	-	-	-
5. Potential Changes	-	-	-
6. Potential Claims	-	-	-
7. Non-Contractual Expenses	3,636,417	-	3,636,417
<b>8. Total Forecast (3+4+5+6+7)</b>	<b>993,636,417</b>	<b>-</b>	<b>993,636,417</b>



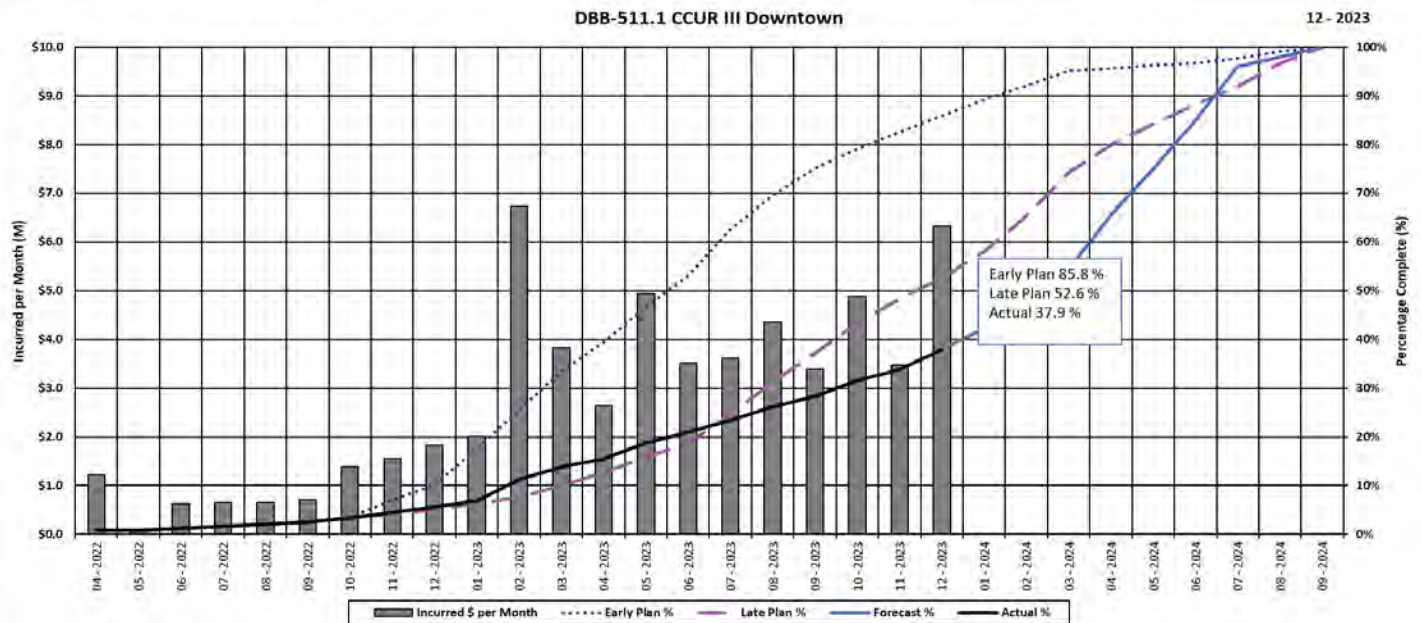
**DBB511: City Center Utilities Relocation (CCUR) III Downtown**

**Contractor:** Frank V. Coluccio Construction Company, Inc. (FVCCC)  
**Contract Substantial Completion:** September 2024

**Contract Start Date:** May 2022  
**Projected Completion of Work:** September 2024

**Project Description:** Relocation of Wet utilities (Task Orders 3, 8, 8A, 9, 14, 15), Dry utilities (Task Orders 12, 24, 27, 32) and Roadway items / Traffic Signals from Ka'aahi Street to Cooke Street, along Nimitz and Halekauwila Street in advance of the guideway drilled shaft installation (CCGS contract).

**Overall Status:**



Data as of December 29, 2023. Note: The progress curve accounts for the Halekauwila and Nimitz Optimizations.

**Activities this Month:**

- Excavation for the street lighting system on Halekauwila ongoing.
- Iwilei street light infrastructure completed.
- HECO and cable television (CTV) duct installations on Iwilei and Kaaahi completed.
- Trenching for traffic signal (TS) and street lighting systems at various intersections along Nimitz is continuing.
- Jet grouting for HECO and HTI duct installations on Halekauwila is ongoing.
- Removal of an abandoned box drain on Halekauwila Street completed.
- Continued water system work on Halekauwila.
- Nimitz Optimization Plans routing for signature.
- Flat work, mill and overlay at Kaaahi and Iwilei completed.
- Installed temporary ITS at 4 locations.

**Look Ahead:**

- Lighting and Traffic Signal foundation installations will continue on Nimitz Highway.
- Waterline, lighting, HECO and CTV duct installations on Halekauwila will continue.
- Start HECO cabling on Iwilei.
- Continue to install temporary ITS.

**Key Issues** (new issues are in bold font):

- Hawaii Housing Finance & Development Corporation – Work is continuing to set up a meeting with the tenant operator of the Na Lei Hulu Kupuna housing building. Continuing to finalize the 4f historic documentation for submittal to the appropriate agency(ies).

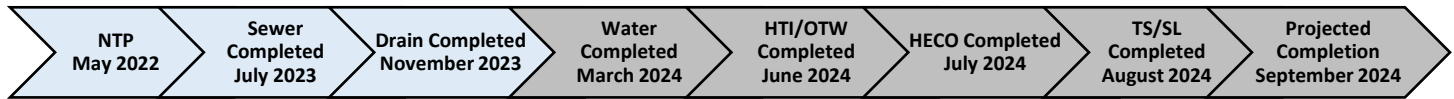
**Schedule:**

- The substantial completion date is currently September 2024.
- 2 pier extension required to construct the temporary terminus for the operations and maintenance of the system.

Progress		Schedule Status	
Physical % Complete*	37.9%	On time	
Early Plan*	85.8%		
Late Plan*	52.6%		

\*Data as of December 31, 2023. The planned and actual percentages reflect the CCUR III Downtown area of work from Ka'aahi to Cooke Streets.

Key Milestones (milestones that were achieved are shaded blue):



HTI=Hawaiian Telcom Internet OTW=Oceanic Time Warner SL=Street Light TS=Traffic Signal

Cost Summary:

Description	Current Period (December-2023)		
	FFGA	N/A	Total CPP
1. Original Contract	217,777,000	-	217,777,000
2. Approved Change Orders	21,341,679	-	21,341,679
<b>3. Current Contract Value (1+2)</b>	<b>239,118,679</b>	<b>-</b>	<b>239,118,679</b>
4. Pending Changes	-	-	-
5. Potential Changes	(18,800,000)	-	(18,800,000)
6. Potential Claims	-	-	-
7. Non-Contractual Expenses	-	-	-
<b>8. Total Forecast (3+4+5+6+7)</b>	<b>220,318,679</b>	<b>-</b>	<b>220,318,679</b>

**DBB511: CCUR IV Dillingham**

Contractor: Nan, Inc. (NAN)

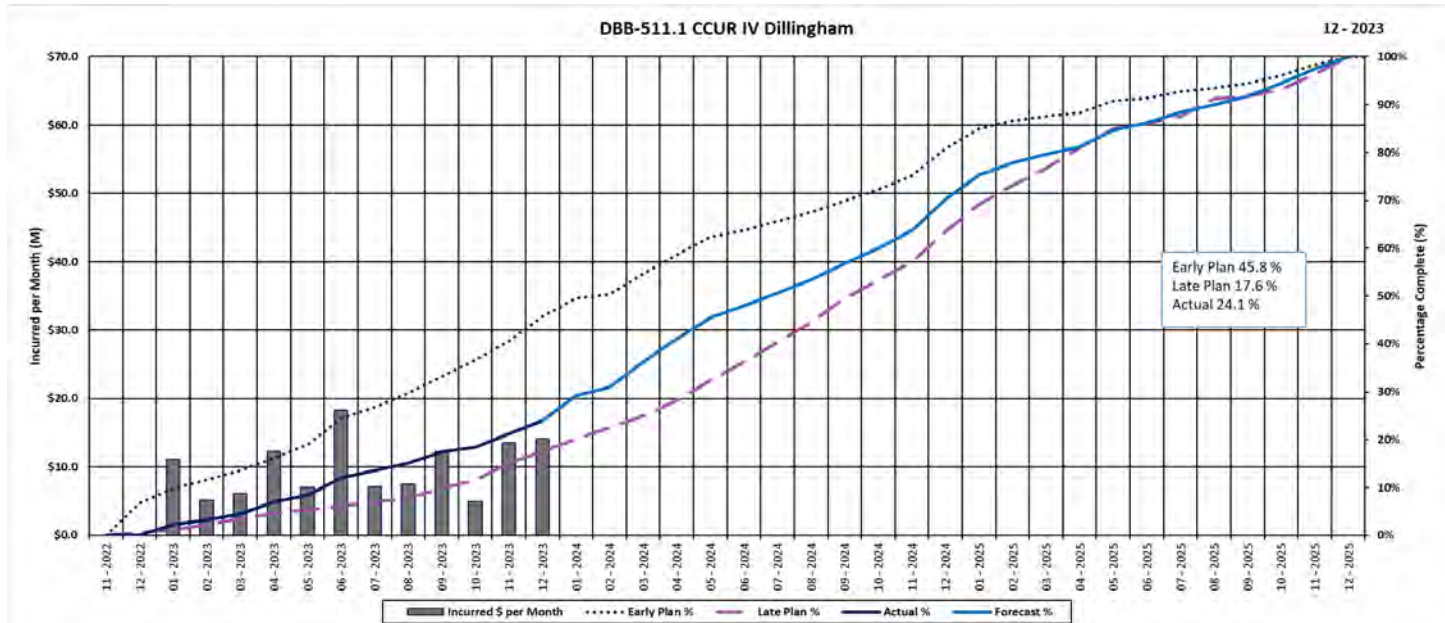
Contract Start Date: October 2022

Contract Substantial Completion: December 2025

Projected Completion of Work: December 2025

Project Description: Utility relocations in advance of the guideway drilled shaft installation (CCGS contract).

**Overall Status:**



Data as of December 29, 2023.

**Activities this Month:**

- Weekly coordination meetings are continuing with Nan.
- Continued installation of the 12kV, 46kV and 138kV ducts in Areas 1A, 1B and 1C.
- Continued installation of HTI lines in Area 1A.
- Continued soil stabilization in Area 1B.
- Continued installation of water and gas lines in Areas 1A and 1B.
- Began sewer system work in Area 1B.
- Installed temporary shoring for the jacking pit.
- Contract issued for CCUR 4E.

**Look Ahead:**

- Continue installation of the 12kV, 46kV and 138kV ducts.
- Installation of HTI manholes and lines will continue in Area 1A.
- Continue installation of sewer in Area 1B.
- Soil stabilization in Areas 1B and 1C.
- Install temporary shoring for the receiving pits.

**Key Issues** (new issues are in bold font):

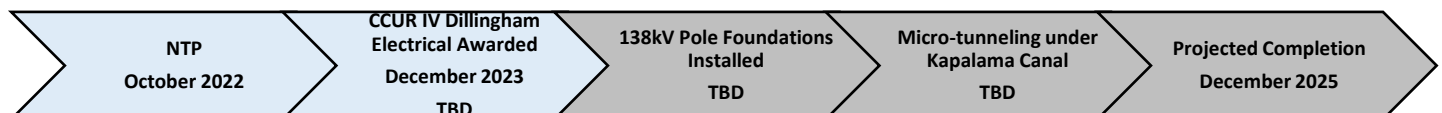
- The existing underground 12 kV line will conflict with new infrastructure from CCD Lane to Kaaahi Street– HECO provided an overhead option that will not require the relocation of the underground 12 kV line.

**Schedule:**

Progress		Schedule Status
Physical % Complete*	24.1%	On time
Early Plan*	45.8%	
Late Plan*	17.6%	

\*Data as of December 31, 2023. The planned and actual percentages reflect the CCUR IV Dillingham area of work.

**Key Milestones** (milestones that were achieved are shaded blue):



Cost Summary:

Description	Current Period (December-2023)		
	FFGA	N/A	Total CPP
1. Original Contract <sup>1</sup>	546,246,697	-	546,246,697
2. Approved Change Orders	500,000	-	500,000
<b>3. Current Contract Value (1+2)</b>	<b>546,746,697</b>	<b>-</b>	<b>546,746,697</b>
4. Pending Changes	-	-	-
5. Potential Changes	-	-	-
6. Potential Claims	-	-	-
7. Non-Contractual Expenses	-	-	-
<b>8. Total Forecast (3+4+5+6+7)</b>	<b>546,746,697</b>	<b>-</b>	<b>546,746,697</b>

<sup>1</sup>Amount includes costs of future contract awards

## 2.11 Professional Services

**A. Program Management Contractor Contract**  
**CPP No.:** MM902  
**Contractor:** HDR Engineering, Inc.  
**Contract Start Date:** January 1, 2017  
**Contract Completion Date:** December 31, 2024

<b>Original Contract:</b>	\$63,522,953
<b>Current Contract Value<sup>1</sup>:</b>	\$63,522,953
<b>Incurred-to-Date:</b>	\$60,049,089
<b>Incurred in December:</b>	\$127,839.91
<sup>1</sup> Current Contract Value = Original contract value + executed Change Orders	

**B. Construction Engineering and Inspection (CEI) "III"**  
**CPP No.:** MM596  
**Contractor:** Stantec Consulting Services Inc.  
**Contract Start Date:** March 8, 2022  
**Contract Completion Date:** December 31, 2026

<b>Original Contract:</b>	\$119,377,861
<b>Current Contract Value<sup>1</sup>:</b>	\$119,377,861
<b>Incurred-to-Date:</b>	\$23,024,045
<b>Incurred in December:</b>	\$398,900.43
<sup>1</sup> Current Contract Value = Original contract value + executed Change Orders	

**C. General Engineering Consultant (GEC) "IV"**  
**CPP No.:** MM913  
**Contractor:** Jacobs Engineering Group, Inc.  
**Contract Start Date:** April 1, 2022  
**Contract Completion Date:** April 1, 2027

<b>Original Contract:</b>	\$47,809,670
<b>Current Contract Value<sup>1</sup>:</b>	\$47,809,670
<b>Incurred-to-Date:</b>	\$8,087,378
<b>Incurred in December:</b>	\$153,179.29
<sup>1</sup> Current Contract Value = Original contract value + executed Change Orders	

**D. Core Systems Support Services Consultant II**  
**CPP No.:** MM962  
**Contractor:** Lea+Elliott, Inc.  
**Contract Start Date:** May 11, 2023  
**Contract Completion Date:** May 11, 2028

<b>Original Contract:</b>	\$26,375,998
<b>Current Contract Value<sup>1</sup>:</b>	\$26,375,998
<b>Incurred-to-Date:</b>	\$2,901,305
<b>Incurred in December:</b>	\$341,262
<sup>1</sup> Current Contract Value = Original contract value + executed Change Orders	

### 2.12 Art-in-Transit (AIT) Program

Station / Facility Name	Artist Name	NTP Phase	Comments
Rail Operations Center – Operations & Servicing Building	Shigeru Miyamoto	NTP3	With all paperwork completed, the artist is awaiting the final release of their work to conclude the art contract.
Hālawā Station at Aloha Stadium	Jay Wilson	NTP2	After the artwork is finalized, the art installation will begin in the second quarter of 2024 without disrupting rail operations.
Makalapa Station at Pearl Harbor Naval Base	Carol Bennett	NTP4	Art installation will commence in February 2024, coinciding with the substantial completion of station construction near the art location.
Lelepaua Station at Daniel K. Inouye International Airport	Mamoru Sato	NTP4	The artist continues to work on creating the content for the identification plaque that will accompany the finished artwork.
Āhūa Station at Lagoon Drive	Carol Yotsuda	NTP4	Artwork installation is completed. Barriers have been installed around the artwork to protect it from ongoing station construction.
Kahauiki Station at Middle Street Transit Center	Deborah Nehmad	NTP4	Art paver installation is scheduled for February 2024, coinciding with the substantial completion of station construction near the art location.

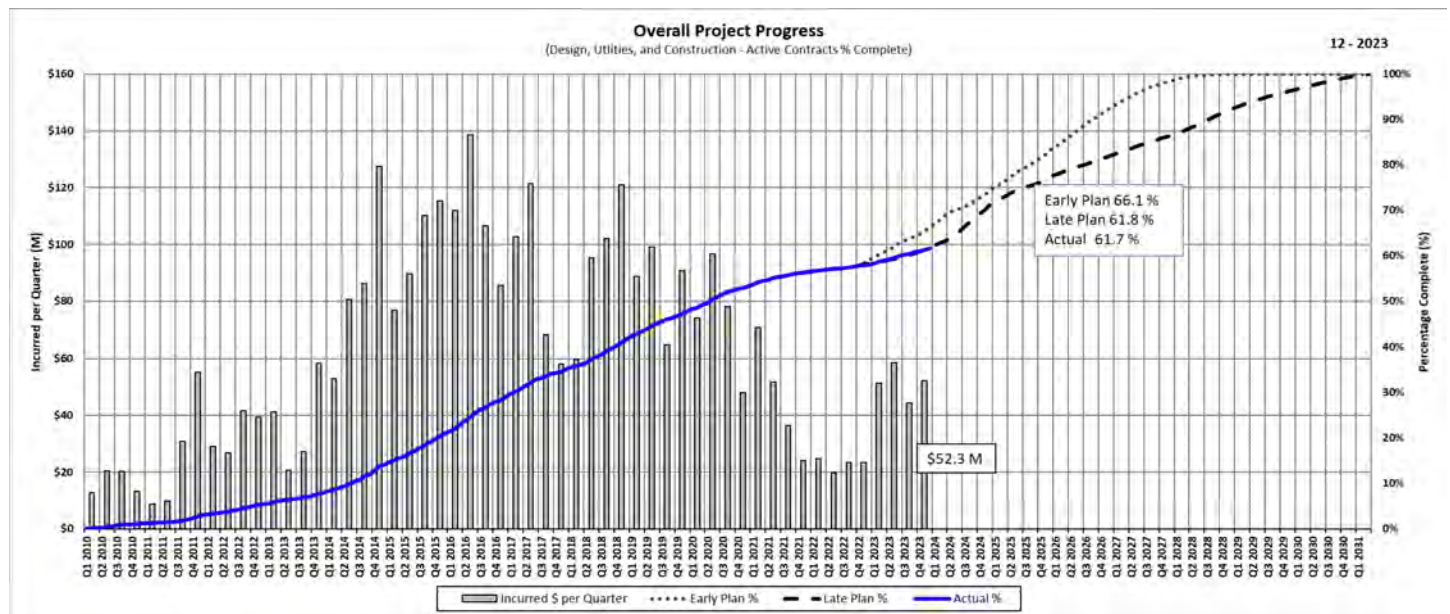
### 2.13 Overall Project Progress and Financials (Spend Analysis)

The Overall, Construction and Design Project Progress curves are based on the Estimate at Completion for the 2022 Recovery Plan scope to Ka’ākaukukui (Civic Center) Station and the March 2031 Operational Readiness date. The progress curves will be revised in a future Monthly Progress Report, when the CSC calculations are updated (as is mentioned in the CSC contract page in the Monthly Progress Report).

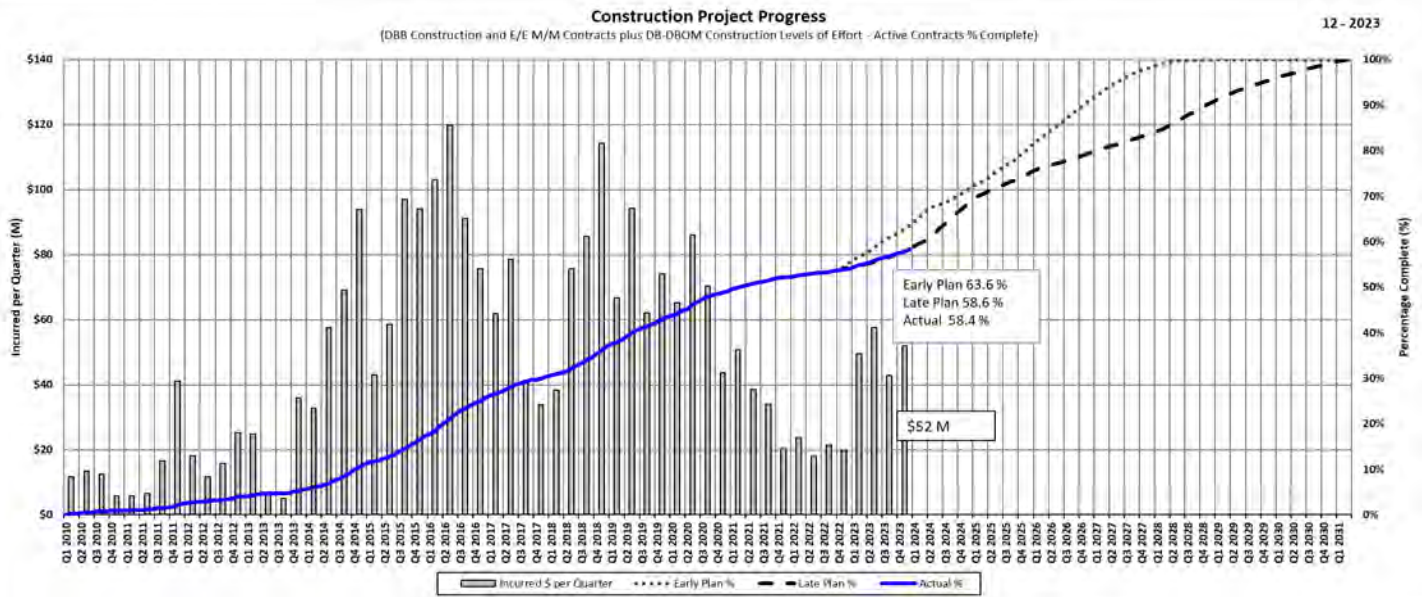
The following progress curves have a data date of December 30, 2023.

Note:

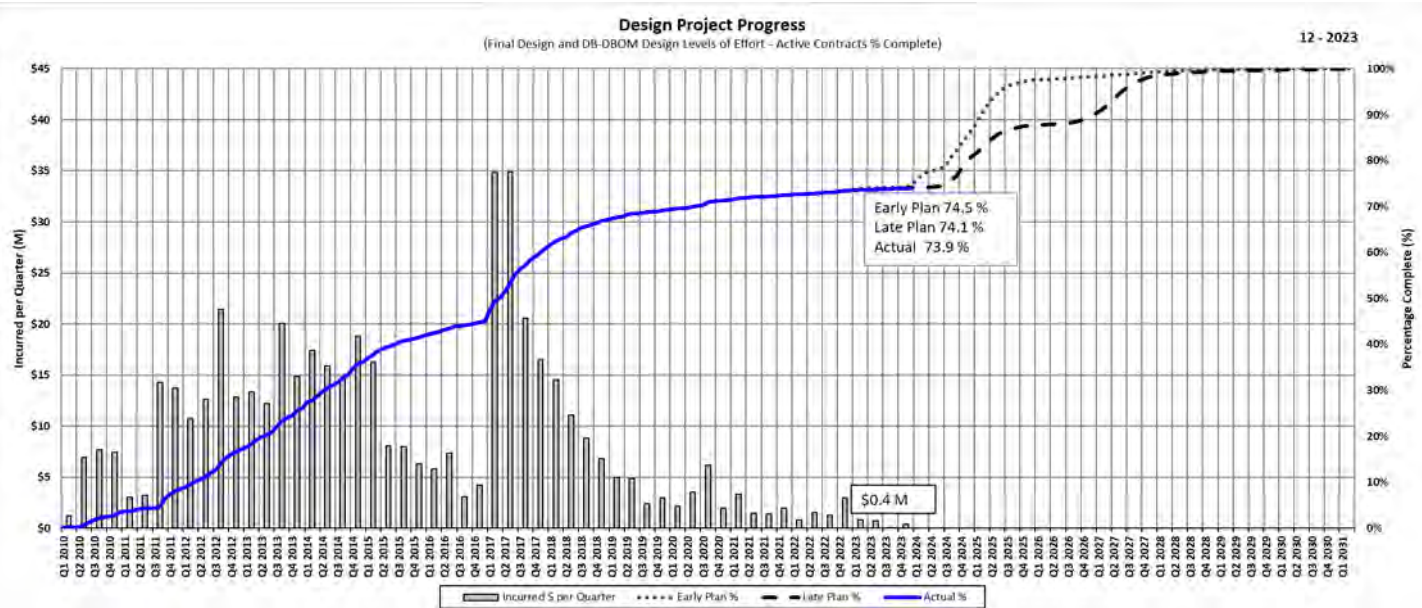
- Actual = Actual cost of work performed, based on reported work-in-place.
- Early Plan = Earliest dates activities can begin and finish, based on logic and durations used in the schedule.
- Late Plan = Latest dates activities can begin and finish and not have an impact on completion date, based on logic and durations used in the schedule.



Source: Project Controls. At present "overall" project progress is based on the weighted value progress of the individual construction and design contracts (Design-Build [DB], Design-Bid-Build [DBB], Design-Build-Operate-Maintain [DBOM], Elevator/Escalator Manufacture-Install-Test-Maintain [MIM], Final Design [FD] and DB-DBOM design levels of effort), not including City or non-design consultant labor.



Source: Project Controls. Overall construction progress is based on the weighted average progress of the individual DBB and E/E MIM construction contracts and the DB-DBOM construction levels of effort.



Source: cash basis. Overall design progress is based on the weighted average progress of the individual FD contracts and the design levels of effort of the DB and DBOM construction contracts.

Project Costs by SCC – Level 2 (data as of December 31, 2023.)

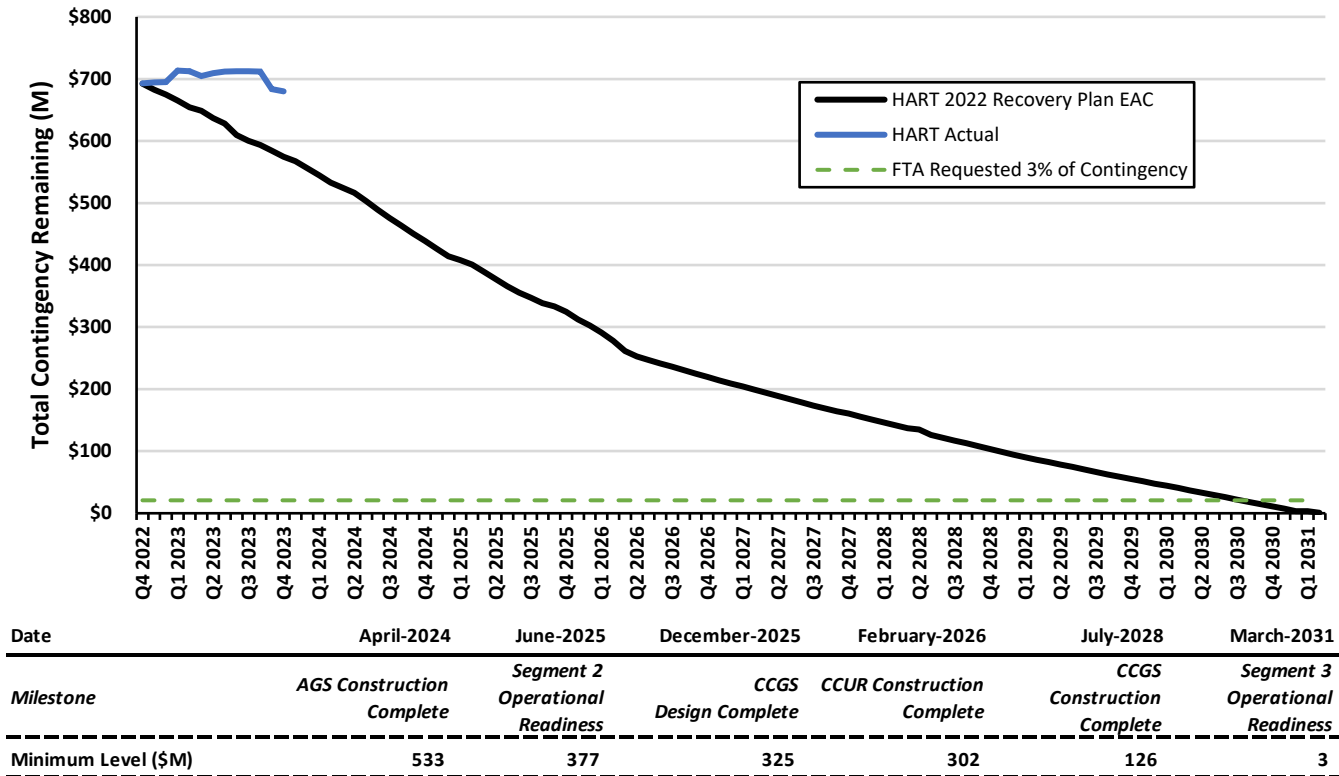
SCC	Description	2022 Recovery Plan Budget			Estimate At Completion			Incurred
		Base Cost	Contingency	Total	Base Cost	Contingency	Total	
<b>10</b>	<b>GUIDEWAY &amp; TRACK ELEMENTS</b>	<b>1,409,541,789</b>	<b>71,588,695</b>	<b>1,481,130,484</b>	<b>1,409,541,789</b>	<b>67,740,833</b>	<b>1,477,282,622</b>	<b>1,043,082,545</b>
10.02	Guideway: At-grade semi-exclusive	-	-	-	-	-	-	-
10.04	Guideway: Aerial structure	1,251,128,051	64,829,063	1,315,957,114	1,251,128,051	61,158,756	1,312,286,807	927,123,075
10.05	Guideway: Built-up fill	-	-	-	-	-	-	-
10.06	Guideway: Underground Cut & Cvr	-	-	-	-	-	-	-
10.08	Guideway: Retained cut or fill	8,077,393	-	8,077,393	8,077,393	-	8,077,393	8,077,393
10.09	Track: Direct fixation	146,785,711	6,759,632	153,545,343	146,785,711	6,582,077	153,367,788	104,331,443
10.11	Track: Ballasted	3,550,634	-	3,550,634	3,550,634	-	3,550,634	3,550,634
10.12	Track: Special (switches, turnouts)	-	-	-	-	-	-	-
<b>20</b>	<b>STATIONS, STOPS, TERMINALS, INTERMODAL</b>	<b>857,628,251</b>	<b>60,292,743</b>	<b>917,920,995</b>	<b>857,128,251</b>	<b>58,726,705</b>	<b>915,854,956</b>	<b>398,259,620</b>
20.01	At-grade station, stop, shelter, mall, terminal, platform	11,510,875	-	11,510,875	11,510,875	-	11,510,875	11,510,875
20.02	Aerial station, stop, shelter, mall, terminal, platform	639,944,854	42,543,232	682,488,086	639,444,854	41,714,327	681,159,180	353,333,391
20.04	Other stations, landings, terminal	20,021,579	2,002,158	22,023,737	20,021,579	2,002,158	22,023,737	-
20.06	Automobile parking multi-story structure	145,038,999	14,503,900	159,542,899	145,038,999	14,503,900	159,542,899	-
20.07	Elevators, escalators	41,111,944	1,243,453	42,355,397	41,111,944	506,321	41,618,264	33,415,354
<b>30</b>	<b>SUPPORT FACILITIES: YARDS, SHOPS, ADMIN. BLDGS</b>	<b>106,284,678</b>	<b>111,428</b>	<b>106,396,105</b>	<b>106,284,678</b>	<b>111,067</b>	<b>106,395,745</b>	<b>104,584,810</b>
30.01	Administration Building: Office, Sales	-	-	-	-	-	-	-
30.02	Light Maintenance Facility	-	-	-	-	-	-	-
30.03	Heavy Maintenance Facility	55,666,283	41,610	55,707,892	55,666,283	41,475	55,707,758	55,666,283
30.04	Storage or Maintenance of Way Building	10,710,710	4,380	10,715,090	10,710,710	4,366	10,715,076	7,903,910
30.05	Yard and Yard Track	39,907,685	65,438	39,973,123	39,907,685	65,226	39,972,911	41,014,617
<b>40</b>	<b>SITWORK &amp; SPECIAL CONDITIONS</b>	<b>2,910,172,389</b>	<b>186,923,390</b>	<b>3,097,095,779</b>	<b>2,923,526,163</b>	<b>203,912,485</b>	<b>3,127,438,648</b>	<b>1,619,202,561</b>
40.01	Demolition, Clearing, Earthwork	46,841,734	181,736	47,023,470	46,841,734	181,736	47,023,470	5,120,450
40.02	Site Utilities, Utility Relocation	1,002,078,346	73,524,420	1,075,602,765	979,054,565	83,608,939	1,062,663,504	352,304,137
40.03	Haz. Mat'l, contam'd soil removal/mitigation, ground water treatments	28,460,969	263,762	28,724,731	28,460,969	189,643	28,650,612	36,686,885
40.04	Environmental mitigation, e.g. wetlands, historic/archeologic, parks	32,821,022	975,637	33,796,659	32,821,022	972,086	33,793,108	22,680,608
40.05	Site structures including retaining walls, sound walls	10,054,338	2,316	10,056,654	10,054,338	-	10,054,338	9,721,338
40.06	Pedestrian / bike access and accommodation, landscaping	45,740,163	829,810	46,569,973	45,740,163	808,553	46,548,716	11,545,331
40.07	Automobile, bus, van accessways including roads, parking lots	328,588,386	15,990,757	344,579,143	328,588,386	18,030,699	346,619,085	141,569,852
40.08	Temporary Facilities and other indirect costs during construction	1,415,587,431	95,154,952	1,510,742,383	1,451,964,986	100,120,829	1,552,085,815	1,039,573,960
<b>50</b>	<b>SYSTEMS</b>	<b>333,499,029</b>	<b>15,184,751</b>	<b>348,683,780</b>	<b>328,258,010</b>	<b>17,557,510</b>	<b>345,815,520</b>	<b>199,749,038</b>
50.01	Train control and signals	105,377,234	2,705,105	108,082,339	105,377,234	2,695,619	108,072,853	84,150,746
50.02	Traffic signals and crossing protection	25,461,531	2,317,579	27,779,110	24,081,781	4,825,392	28,907,173	4,266,002
50.03	Traction power supply: substations	78,471,380	6,864,333	85,335,714	78,471,380	6,863,977	85,335,357	12,512,876
50.04	Traction power distribution: catenary and third rail	57,692,956	1,781,008	59,473,964	57,692,956	1,777,983	59,470,938	43,729,977
50.05	Communications	50,355,276	1,287,964	51,643,240	49,667,276	1,264,301	50,931,577	39,485,815
50.06	Fare collection system and equipment	12,428,121	145,018	12,573,139	9,254,853	47,538	9,302,390	11,108,778
50.07	Central Control	3,712,531	83,743	3,796,274	3,712,531	82,701	3,795,232	4,494,843
	<b>Construction Subtotal (10 – 50)</b>	<b>5,617,126,136</b>	<b>334,101,007</b>	<b>5,951,227,143</b>	<b>5,624,738,892</b>	<b>348,048,600</b>	<b>5,972,787,491</b>	<b>3,364,878,573</b>

Source: Project Controls



SCC	Description	2022 Recovery Plan Budget			Estimate At Completion			Incurred
		Base Cost	Contingency	Total	Base Cost	Contingency	Total	
<b>60</b>	<b>ROW, LAND, EXISTING IMPROVEMENTS</b>	<b>220,930,514</b>	<b>19,671,426</b>	<b>240,601,940</b>	<b>221,013,811</b>	<b>27,022,493</b>	<b>248,036,304</b>	<b>160,356,891</b>
60.01	Purchase or lease of real estate	220,930,514	19,671,426	240,601,940	221,013,811	27,022,493	248,036,304	160,356,891
60.02	Relocation of existing households and businesses	-	-	-	-	-	-	-
<b>70</b>	<b>VEHICLES</b>	<b>189,859,841</b>	<b>4,965,908</b>	<b>194,825,749</b>	<b>189,859,841</b>	<b>4,949,991</b>	<b>194,809,832</b>	<b>185,438,801</b>
70.01	Light Rail	1,219,858	47,870	1,267,728	1,219,858	47,870	1,267,728	-
70.02	Heavy Rail	175,613,435	4,578,423	180,191,858	175,613,435	4,563,605	180,177,040	172,550,187
70.05	Other	-	-	-	-	-	-	-
70.06	Non-revenue vehicles	13,026,548	339,616	13,366,164	13,026,548	338,516	13,365,064	12,888,614
70.07	Spare parts	-	-	-	-	-	-	-
<b>80</b>	<b>PROFESSIONAL SERVICES</b>	<b>2,426,090,725</b>	<b>93,234,978</b>	<b>2,519,325,703</b>	<b>2,428,809,926</b>	<b>92,434,385</b>	<b>2,521,244,311</b>	<b>1,674,213,124</b>
80.01	Preliminary Engineering	135,906,228	580,907	136,487,135	135,906,228	580,907	136,487,135	95,111,405
80.02	Final Design	832,185,549	35,801,864	867,987,413	834,904,750	35,004,241	869,908,990	495,741,018
80.03	Project Management for Design and Construction	593,566,997	26,789,312	620,356,310	593,566,997	26,789,312	620,356,310	553,530,908
80.04	Construction Administration & Management	640,332,722	23,946,685	664,279,407	640,332,722	23,946,685	664,279,407	405,343,543
80.05	Professional Liability and other Non-Construction Insurance	94,435,500	4,000,000	98,435,500	94,435,500	4,000,000	98,435,500	54,161,383
80.06	Legal; Permits; Review Fees by other agencies, cities, etc.	76,751,955	683,697	77,435,652	76,751,955	683,697	77,435,652	46,518,888
80.07	Surveys, Testing, Investigation, Inspection	17,718,975	515,000	18,233,975	17,718,975	515,000	18,233,975	4,233,198
80.08	Start up	35,192,799	917,512	36,110,311	35,192,799	914,543	36,107,341	19,572,782
<b>90</b>	<b>Subtotal (10 – 80)</b>	<b>8,454,007,216</b>	<b>451,973,320</b>	<b>8,905,980,536</b>	<b>8,464,422,469</b>	<b>472,455,469</b>	<b>8,936,877,938</b>	<b>5,384,887,389</b>
	UNALLOCATED CONTINGENCY	-	242,069,010	242,069,010	-	211,171,607	211,171,607	
<b>100</b>	<b>Subtotal (10 – 90)</b>	<b>8,454,007,216</b>	<b>694,042,330</b>	<b>9,148,049,546</b>	<b>8,464,422,469</b>	<b>683,627,076</b>	<b>9,148,049,545</b>	<b>5,384,887,389</b>
	FINANCE CHARGES	785,000,000	-	785,000,000	785,000,000	-	785,000,000	202,489,184
	<b>Total Project Cost (10 – 100)</b>	<b>9,239,007,216</b>	<b>694,042,330</b>	<b>9,933,049,546</b>	<b>9,249,422,469</b>	<b>683,627,076</b>	<b>9,933,049,545</b>	<b>5,587,376,573</b>
	<b>Total FFGA Project Cost (10 – 100)</b>	<b>9,239,007,216</b>	<b>694,042,330</b>	<b>9,933,049,546</b>	<b>9,249,422,469</b>	<b>683,627,076</b>	<b>9,933,049,545</b>	<b>5,587,376,573</b>

Contingency Drawdown Curve



Actual data shows better performance versus the HART 2022 Recovery Plan projections. Actual contingency (or float) remaining was \$680 million, versus the baseline drawdown of \$575 million.

Project Funding

Planned vs. Received Project Funding (dollars in millions)					
Funding Source	Pre-FFGA Project <sup>1</sup>	FFGA Project Funding		Total Project	Received in December 2023
	2007 - 2009 Received	Expected <sup>2</sup>	2009 - Present Received	2007 - Present Received	
FTA Section 5309 New Starts Revenue <sup>3</sup>	-	1,550	806	806	-
2021 American Rescue Plan Act	-	70	70	70	-
General Excise Tax (GET) Surcharge FY2007-FY2031 <sup>4</sup>	378	6,390	3,370	3,749	-
Transient Accommodations Tax (TAT) Surcharge FY2018-FY2031 <sup>4</sup>	-	1,101	350	350	-
Oahu TAT FY2022-2031	-	488	47	47	-
City Subsidy <sup>5</sup>	-	214	145	145	-
Premium on General Obligation (GO) Bond Issuances	-	240	252	252	-
2022 Congressional Omnibus Bill	-	64	64	64	64
Section 5307 Flex Capital Investment Funding <sup>8</sup>	-	30	30	30	30
Interest Income <sup>6</sup>	7	0	10	17	-
American Recovery and Reinvestment Act (ARRA) Funds	-	0	4	4	-
U.S. Environmental Protection Agency (EPA) Brownfields Grants <sup>7</sup>	-	0	1	1	-
<b>Total</b>	<b>385</b>	<b>10,146</b>	<b>5,149</b>	<b>5,535</b>	<b>94</b>

<sup>1</sup> GET and Interest Income received during Pre-Preliminary Engineering (pre-PE) phase prior to entry into PE.

<sup>2</sup> Based on the 2022 Recovery Plan, except for the \$64 million from the 2022 Congressional Omnibus Bill (which was not in the 2022 Recovery Plan, but is included in the Draft version of the amended FFGA).

<sup>3</sup> New Starts Funds Obligated Through Federal Fiscal Year 2014 Totaled \$806.3 million.

<sup>4</sup> The total GET and TAT State collection for April, May and June 2023 was \$102.3 million. However, HART received \$72.9 million from the State, as \$29.4 million exceeded the State's FY 2024 1st Quarter Revenue Appropriation for the Mass Transit Fund. The received amounts listed in the table have been adjusted to account for this. HART will receive the \$29.4 million difference in October of Fiscal Year 2024.

<sup>5</sup> City Subsidy receipts by fiscal year: FY19 = \$44 million; FY20 = \$25 million; FY21 = \$26 million; FY22 = \$21 million; FY23 = \$17 million

<sup>6</sup> Interest Income is not material on a monthly basis.

<sup>7</sup> Expected to receive \$1.4 million for EPA Brownfields Grants (to plan and subsidize the environmental cleanup activities). EPA Brownfields Grants revenue received to date - \$900,000.

<sup>8</sup> Section 5307 State Flex Capital Investment Funding (\$30,000,000 in State Highway Infrastructure funds transferred by State to FTA Section 5307 in FFY 2023)

New Starts Grant Information by Federal Fiscal Year

Federal Fiscal Year (FFY) Allocation	FTA Obligated Amounts	Actual Drawdown Amounts to Date	Available Balance	FFGA Base Case Cash Flow
2008	\$15,190,000	\$15,190,000	\$0	
2009	\$19,800,000	\$19,800,000	\$0	
2010	\$30,000,000	\$30,000,000	\$0	
2011	\$55,000,000	\$55,000,000	\$0	\$20,607,242
2012	\$200,000,000	\$200,000,000	\$0	\$99,382,758
2013	\$236,277,358	\$236,277,358	\$0	\$258,280,277
2014	\$250,000,000	\$249,991,376	\$8,624	\$441,719,724
2024*	\$0	\$0	\$125,000,000	\$125,000,000
2025*	\$0	\$0	\$250,000,000	\$250,000,000
TBD	\$0	\$0	\$368,732,642	\$355,009,999
<b>Total</b>	<b>\$806,267,358</b>	<b>\$806,258,734</b>	<b>\$743,741,266</b>	<b>\$1,550,000,000</b>

Note:

\* The amounts listed for years 2024 and 2025 are based on current projections and indicate remaining funds that can be used once obligated.

## 2.14 Schedule (data as of December 29, 2023)

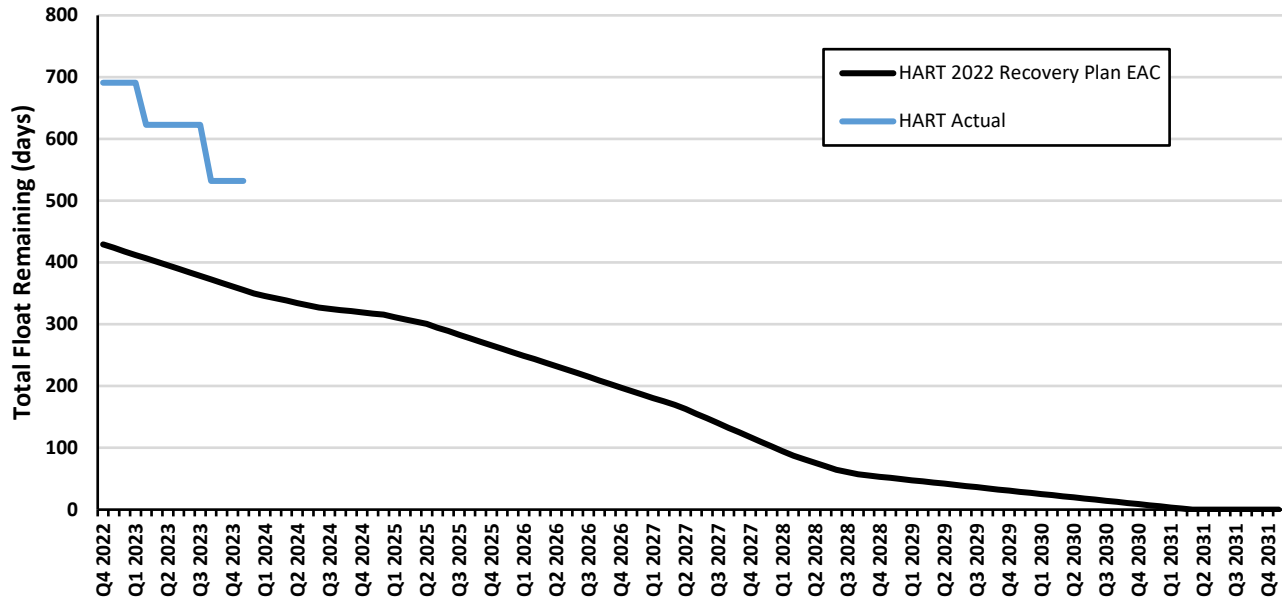
### Critical Path Analysis

Segment 2 Operational Readiness remains forecast for June 2025. The no float schedule critical path is driven by the HRH station COMMs equipment installation/cable pulls at Ahua (Lagoon Drive) Station and Kahauiki (Middle Street) Station. The near critical path continues to be the track energization along the alignment, enabling the commencement of passenger vehicle testing.

Segment 3 Operational Readiness remains scheduled for March 2031. The planned procurement dates of the CCGS contract continue to drive the critical path. CCGS Request for Proposal Part 2 was issued on December 27<sup>th</sup>, two weeks ahead of schedule. Part 2 proposals are due in July 2024 and planned to be awarded in August 2024. The near critical path remains the Dillingham utility relocations, followed by the guideway construction, and then the platform construction at Niuhelewai (Kapalama) Station.

### Schedule Contingency Drawdown Curve

- Actual float remaining is 532 days, versus the baseline of 367 days.



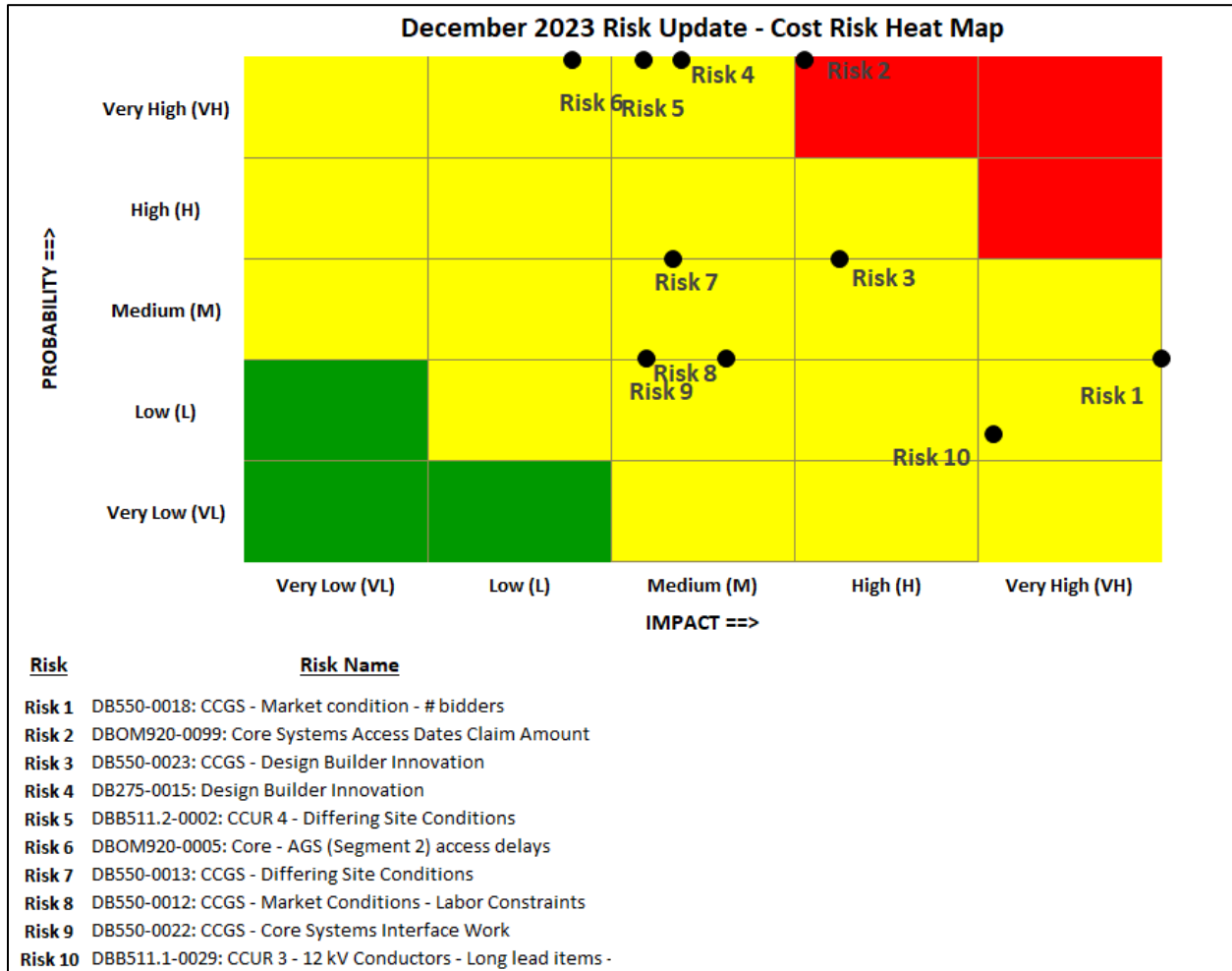
Date	Apr-2024	Jun-2025	Dec-2025	Feb-2026	Jul-2028	Mar-2031
Milestone	AGS Construction Complete	Segment 2 Operational Readiness	CCGS Design Complete	CCUR Construction Complete	CCGS Construction Complete	Segment 3 Operational Readiness
Minimum Level (days)	338	295	260	249	65	2

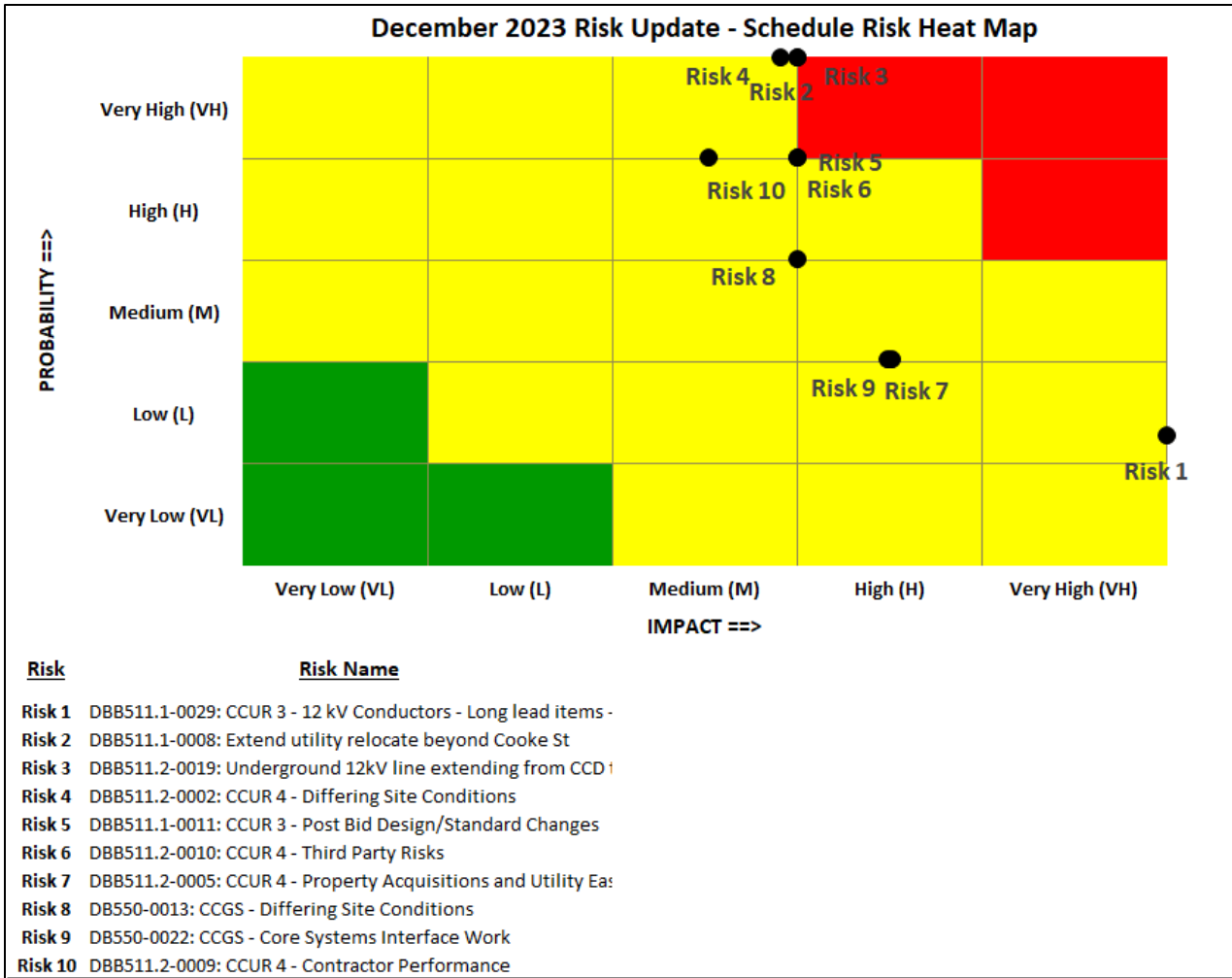


## 2.15 Risk Management

The following highlights top risks and mitigation effort from December 2023 monthly risk update.

### 2.15.1 Top Risk Summaries





**2.15.2 Top Risk Threats and Mitigations**

The following risk scoring table (used in the calculation of the Risk Threat scores shown below) is in accordance with FTA guidelines for summarizing the overall severity of project risks. HART has adjusted the cost and schedule ranges shown below to scale values to an appropriate level as it relates to this project.

Risk Scoring for Risk Threats			
Impact Scores Legend	Low 1	Medium 2	High 3
(P) Probability	<10%	>10% <50%	>50%
(C) Cost Impact	<\$10 M	>\$10 M <\$50 M	>\$50 M
(S) Schedule Impact	<1 month	>1 month <4 months	>4 months
Rating	<6	7 - 12	13 - 18
Score = (Cost + Schedule) * Probability			

Risks are assessed based on the probability of occurrence, potential (expected value) cost impact, and potential (expected value) schedule delay to the critical path of the program. The total score is arrived at by adding the cost and schedule impact scores, multiplied by the probability score. For example:

40% Probability = 2; \$60 million Cost Impact = 3; Five-month Schedule Impact = 3

Resulting Score = 2 x (3 + 3) = 12; a Medium Risk.

There are currently 112 active risks within the HRTTP. The table below reflects only those risks identified as a Threat that score either High or Medium based upon the criteria above. Note: Most of these risks will not be triggered until sometime in the future. As such, the Current Status of each risk is only updated as events unfold or the project changes.

Risk ID	Risk Description	Risk Threat Score	Current Status / Risk Mitigation
DBB511.2 SIT 40.02_02	<b>CCUR IV Dillingham – Differing Site Conditions</b> Differing site conditions cause a change in the work that needs to be identified. A Request for Information (RFI) needs to be processed which could take upwards of two weeks to be clarified.	15	12/15/23 – No Change Bring up the issues during the weekly meetings with the contractor, prior to receipt of the RFI. Expedite potholing. Timely submission of RFIs. Get HECO on board to commit to timely addressing RFIs. Use the response matrix. Proactive constructability reviews. Start up weekly meetings again to discuss what needs to be done. Driving the schedule more aggressively with the contractor.
DB550 SIT 40.08_13	<b>CCGS - Differing Site Conditions</b> Change orders for differencing site conditions, owner requests, stakeholder requests typically range 1% - 4%. This also covers issues of quality that are repaired during construction, and it covers the guideway and stations.	15	12/15/23 – No Change Analysis of current data, an early investigation plan, utilizing lessons learned from other projects, and using the RFP data. Possibly create an allowance or force account item.
DBOM920 SIT 40.08_05	<b>Core - AGS (Segment 2) access delays</b> The risk is that the AGS fixed facility contractor may not meet current Construction Access Milestone (CAM) dates in the Core Systems Contract. This will result in a delay claim. It is assumed that HRH will request more than monthly overhead. Issue number 237.	15	12/11/23: We will continue to monitor and ensure that further slippage by STG will be minimized based on the substantial completion date at end of February 2024. 11/10/23 – To reduce risk of schedule slippage, HRH asked that HART ensure STG complete their work in time for HRH installation. They estimated that the cost to add an additional crew is about \$1.6 million and that will only save 5 to 6 weeks from the end date. HART is evaluating an option for HRH to retain the Automated Train Control (ATC) crew for Comms work as long as there is sufficient work for them to do. Monitor the AGS schedule, focusing on CAM date requirements. Consider options to improve on the AGS schedule. Optimize the Core Systems schedule as much as possible. Continue good documentation processes to defend against claims.
DBB511.1 SIT 40.08_29	<b>CCUR 3 - 12 kV Conductors - Long lead items – Electrical</b> The risk is for the 12 kV Conductor – long lead times.	15	12/15/23 – no change Long lead items now reflect 12 kV long lead times; potential mitigation is to ask HECO for supplies, including cabling
DBB511.1 SIT 40.02_08	<b>Extend Utility Relocation Beyond Cooke St</b> Utility relocations needed beyond Cooke St for additional piers needed at last station to accommodate trains.	15	12/15/23 – No Change 11/15/23 – New risk created Have contractor clear additional utilities from pier locations. Alternate would be to have CCGS contractor do the work but that would add additional time and costs to that contract.
DBB511.1 SIT 40.02_11	<b>CCUR III Downtown - Post-Bid Design/Standard Changes</b> Third parties and stakeholders change their design or update their standards requiring us to change things like traffic controls. This sometimes occurs during the approval process. The review process can affect the schedule.	12	12/15/23 – No Change Continue to work at risk. Try to influence the third parties to beat their contractual times.
DBB511.2 SIT 40.02_10	<b>CCUR IV Dillingham - Third Party Risks</b> Lack of a third parties’ ability to perform to the schedule that HART is assuming. Third parties are performing their own work - lagging designs can begin to impact the overall construction schedule for CCUR IV Dillingham.	12	12/15/23 – No Change Coordination. Make sure third parties are aware of how milestones are set up and that dates are met. Make sure the third parties are aware of the time frames of when they can do the work out there. Confirm that the contractor has updated its schedule per the third-party requirements, as opposed to the information provided in the contract documents.
DBB511.2 SIT 40.02_19	<b>Underground 12kV line extending from CCD to Kaaahi</b> Underground 12kV line extending from CCD to Kaaahi. It conflicts with new infrastructure.	12	12/15/23 – No Change 11/15/23 – New risk created Contractor to perform undergrounding of 12kV line extending from CCD to Kaaahi



Risk ID	Risk Description	Risk Threat Score	Current Status / Risk Mitigation
DBB511.1 SIT 40.02_05	<b>Existing (CCUR I) Infrastructure Acceptance by Third Parties (HECO/HTI/Spectrum)</b> Existing CCUR I infrastructure is being mandrel tested by the third parties. Not all existing infrastructure is compliant with third parties standards.	9	12/15/23 – No Change 10/13/23 – Update: Other third parties have accepted – still working on HECO acceptance Mitigation - CCTV inspection and more invasive conduit cleaning. Mandrel testing is still on-going.
DBB511 SIT 40.08_13	<b>CCUR III Downtown - Differing Site Conditions</b> The risk is that the scope or schedule could be impacted by misidentified or unidentified utilities (i.e., differing site conditions). In most cases, HART assumes construction variances are not needed.	9	12/15/23 – No Change Bring up the issues during the weekly meetings with the contractor prior to receipt of the RFI. Expedite pot holing. Timely submission of RFI. Get HECO on board to commit to timely addressing RFIs. Use the response matrix. Proactive constructability reviews. Start up weekly meetings again to discuss what needs to be done. Driving the schedule more aggressively with the contractor.
DB275 SIT 40.08_08	<b>PH - May need new 401/404 permit</b> Lead time for 401/404 permit is assumed to be 6-12 months. Design impacts the permit and significant changes may require a new permit.	9	12/15/23 – No Change 11/14/23 – permit expiration date is November 12, 2024 Include this as a key risk in the RFP. Since this contract is not on the critical path, mitigate time impacts by removing hard schedule constraints. The 404 and 401 permits have been obtained and expire on November 12, 2024.
DBB511 SIT 40.02_09	<b>CCUR IV Dillingham - Contractor Performance</b> The contractor has yet to provide an adequate work plan and resources, per the contract terms. The original scope of work of 38 months was considered as an aggressive schedule. The contractor has stated that they would provide 9 crews, 2 shifts a day, 7 days a week. During the first 4 months of the contract, the contractor has provided 3-4 crews per shift. They were planning 600 feet a week and are close to plan. Another concern is the amount of management staff to initiate RFIs. This also includes the quality of the workmanship done by the contractor with utility strikes on known utilities.	9	12/15/2023 – No Change Monitor the work, force resource loaded schedule updates, constructability type reviews, and weekly meetings.
DBOM920 SIT 40.08_09	<b>Core - Segment 3 startup and testing</b> The risk is that complications during startup and testing causes delays to full OR.	9	12/15/23 – no change 09/13/23 - Segment 3 not procured to date. Increase probability that this delay risk is realized as testing resources in Segment 1 & 2 are unlikely to be here for Segment 3. Utilize lessons learned from segments 1 & 2.
DB550 SIT 40.08_18	<b>CCGS – Market Condition - # Bidders</b> Base cost assumes 3 bidders shortlisted. Risk is that we only get 1 or 2 bidders. Lack of competition usually increased bid prices. Based on \$1BN. They represent 10%, 15%, and 20%.	9	12/21/23 - \$'s lowered to reflect HART settlement with STG for the AGS contract 11/15/23 – No Change
DB550 SIT 40.08_12	<b>CCGS - Market Conditions - Labor Constraints</b> Competing projects for market capacity. Competition for resources.	8	12/15/2023 – No Change Truly analyze the best way to build stations from day 1 to the end. Construct stations separate from the guideway.

**2.15.3 Top Risk Opportunities**

The following risk scoring table (used in the calculation of the Risk Opportunity scores shown below) is in accordance with FTA guidelines for summarizing the overall severity of project risks. HART has adjusted the cost and schedule ranges shown below in order to scale values to an appropriate level as it relates to this project.

Risk Scoring for Risk Opportunities			
Impact Scores Legend	Low 1	Medium 2	High 3
(P) Probability	<10%	>10% <50%	>50%
(C) Cost Impact	<\$10 M	>\$10 M <\$50 M	>\$50 M
(S) Schedule Impact	<1 month	>1 month <4 months	>4 months
Rating	<6	7 - 12	13 - 18
Score = (Cost + Schedule) * Probability			

Like the legend for scoring of Risk Threats, Risk Opportunities are assessed based on the probability of occurrence, potential (expected value) cost impact, and potential (expected value) schedule delay (to the critical path of the program). The total score is arrived at by adding the cost and schedule impact scores, multiplied by the probability score. The scoring calculation for Risk Opportunities is the same as for Risk Threats; however, in the Opportunities scoring table above, high opportunity scores are colored green (versus red), low opportunity scores are colored blue (versus green), and medium opportunity scores are still colored yellow.

Note: Just like the Risk Threats, these Risk Opportunities may be triggered sometime in the future. As such, the status of each Risk Opportunity is only updated as events unfold or project approvals are accepted.

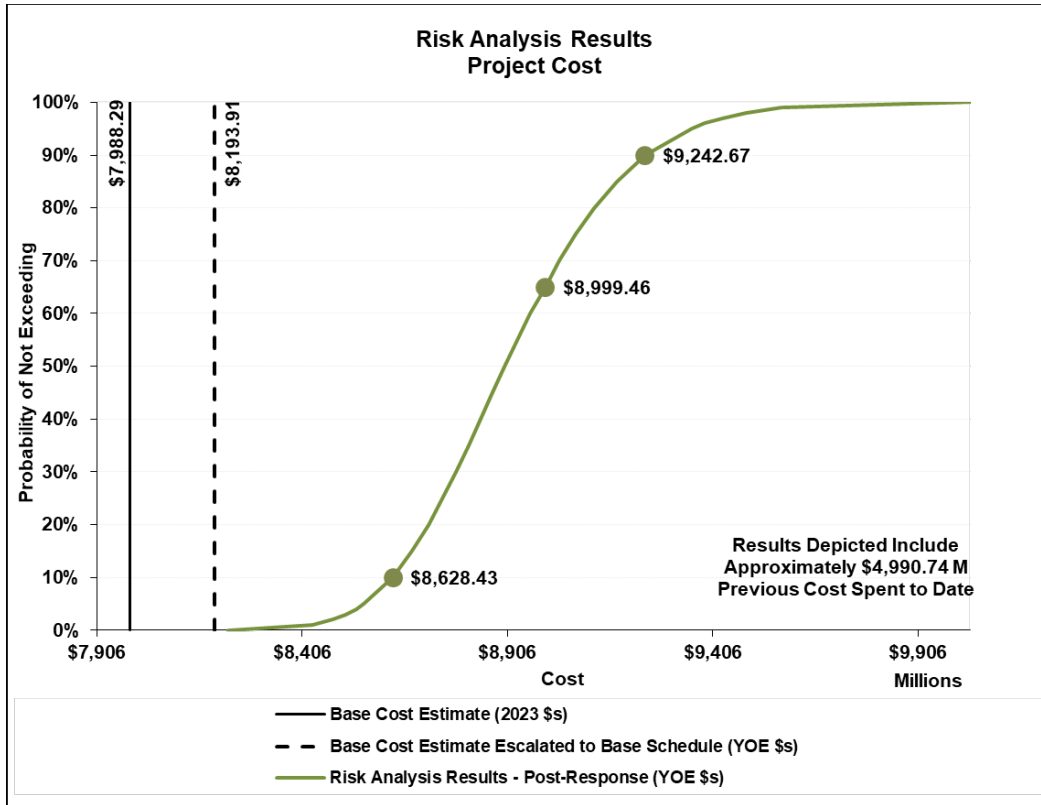
Risk ID	Risk Description	Risk Opportunity Score	Risk Mitigation
DBB511 SIT 40.02_18	<b>CCUR III Downtown - Column Optimization – Nimitz</b> Optimizing column locations to avoid utility relocations. Pricing includes \$8 million in cabling costs.	12	12/15/2023 – No Change Follow the approval process and keep following up on this opportunity.
DB275 SIT 40.09_15	<b>PH - Design-Builder Innovation</b> Innovation around deep foundations. Reduce footprint of the transit center. Streamline ramp design.	12	12/15/2023 – No Change Workshops with HDOT and the city, progress design. Understand true needs of the transit center. Talking with DTS and HDOT. Ensure there is flexible language in the FFGA.
DB550 SIT 40.08_23	<b>CCGS – Design-Builder Innovation</b> Uncoupling stations from the guideway, bolted vs. welded joints, steel in place of concrete, and utilizing precast elements in the stations.	9	12/15/23 – No Change 11/14/2023 – Updated mitigation Uncoupling station from guideway, bolted vs welded joints, steel in place of concrete, utilizing precast elements in the station. Utilize performance specifications, where possible, to spur innovation.
DBB511 SIT 40.02_18	<b>CCUR III Downtown - Column Optimization – Halekauwila</b> Optimizing column locations to avoid utility relocations.	6	12/15/2023 – No Change Follow the approval process and keep following up on this opportunity.

**2.15.4 Recent Risk Updates**

The most recent risk model update occurred in mid-November 2023.

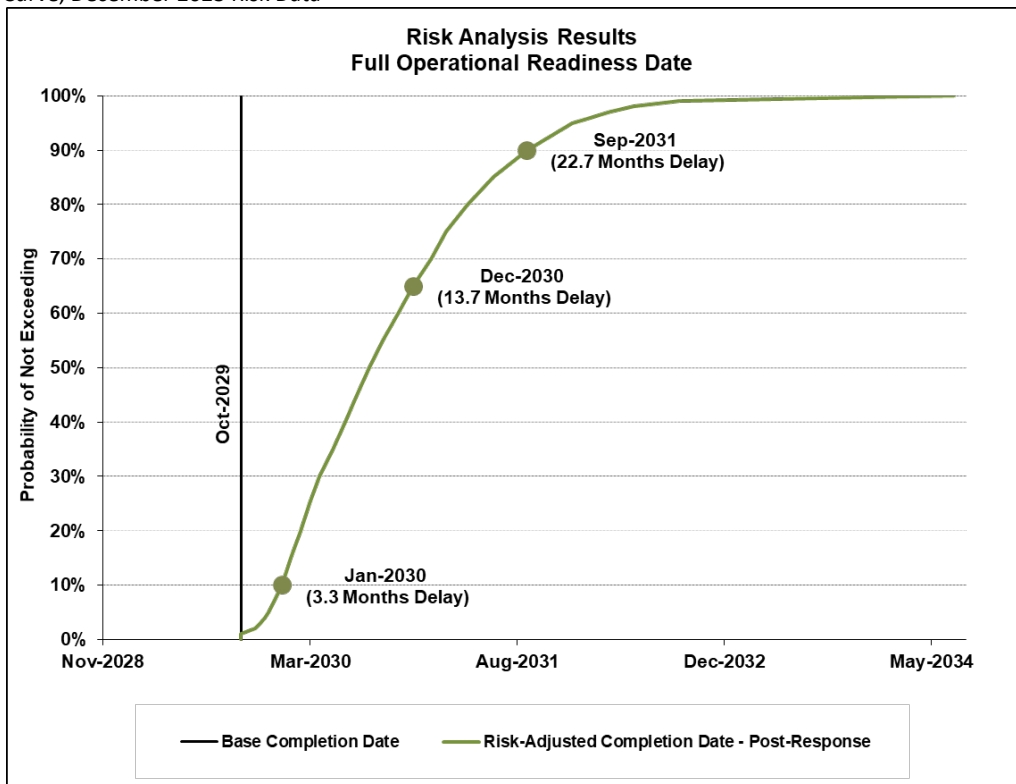
2.15.5 Cost and Schedule Probability Curves

Cost Probability Curve, December 2023 Risk Data



The overall P65 Cost decreased about \$114.41M. CCGS risks were decreased which contributed to the cost decrease in the model.

Schedule Probability Curve, December 2023 Risk Data



The P65 for the H RTP increased by 4 months, which is 13.7 months beyond HART’s base schedule of October 2029 for Full Operational Readiness (base schedule increased from July to October).

## 2.16 Construction Claims

Pursuant to FTA Circular 4220.1F, HART is obligated to notify the FTA and PMOC about third-party claims and litigation with which it is involved. A “claim” is considered to arise when a third-party contractor submits a request for a final written decision by the Contracting Officer. Pursuant to Hawai‘i Revised Statutes Section 103D-711 and Hawai‘i Administrative Rules Section 3-126-28, the Contracting Officer’s decision is deemed final and the basis on which the aggrieved party can initiate an action in Circuit Court within six (6) months of receipt of the Contracting Officer’s decision.

The following claim is being tracked:

Contract	Contractor	Claim Description	Claim Amount	Status
AGS CT-HRT-1600385	STG	Construction delays related to the Airport Guideway construction.	\$99,139,931 (the amount has been updated to reflect the amount alleged in the Complaint)	Having conducted a detailed analysis, HART found STG’s claim to be unsubstantiated and issued a no-merit Officer-in-Charge (OIC) decision on January 11, 2023. STG requested a Contracting Officer’s Decision on two (2) Time Impact Analysis (TIA2 and TIA3). HART issued a Contracting Officer’s Decision on March 2, 2023, denying STG’s claims for compensable delay based on TIA2. On April 26, 2023, HART issued a Contracting Officer’s Decision denying STG’s claims for compensable delays based on TIA3. On July 6, 2023, STG filed a Complaint in the First Circuit Court regarding the alleged claims. HART has not been served with the Complaint. The parties came to a settlement agreement in principle in November 2023. The claim was resolved on December 14, 2023 when the settlement agreement was approved by the HART Board via Change Order.

## 2.17 Quality Management

### Key Issues

HART NCR Log (Source: Unifier)			
Contract	Total NCRs	Closed (December/Total)	Open (December/Total)
CCUR III Downtown	9	0/9	0/0
CCUR IV Dillingham	45	0/4	5/44
AGS	866	5/829	2/37
CSC	123	0/118	1/5
E&E	1	0/0	0/1

Note: Only NCRs related to Trains are excluded from the Unifier system.

- Per HRH’s December 2023 update, there are a total of 2,594 NCRs for Trains/Train Parts. Currently, 40 NCRs remain open/in-work:

<ul style="list-style-type: none"> <li>(2) NCRs open on (2) of (7) PVs on O’ahu not yet handed over for operations.</li> <li>(4) NCRs on PV # 20; remains with HRU in Miami in the final assembly and inspection process.</li> </ul>	<ul style="list-style-type: none"> <li>(18) NCRs are unassigned to a PV; NCRs on individual detailed part(s) or assemblies.</li> <li>(0) NCRs open detailed assemblies by HRI in Italy.</li> <li>(16) Multi-unit Train Set/Fleet NCR.</li> </ul>
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- The tendon Corrective Action Plan (CAP) for the WOFH spans will be closed upon resolution of HDOT comments and questions on the monitoring methodology, the monitoring quarterly reports, and finalization of the tendon monitoring response matrix.

### Improvement Actions

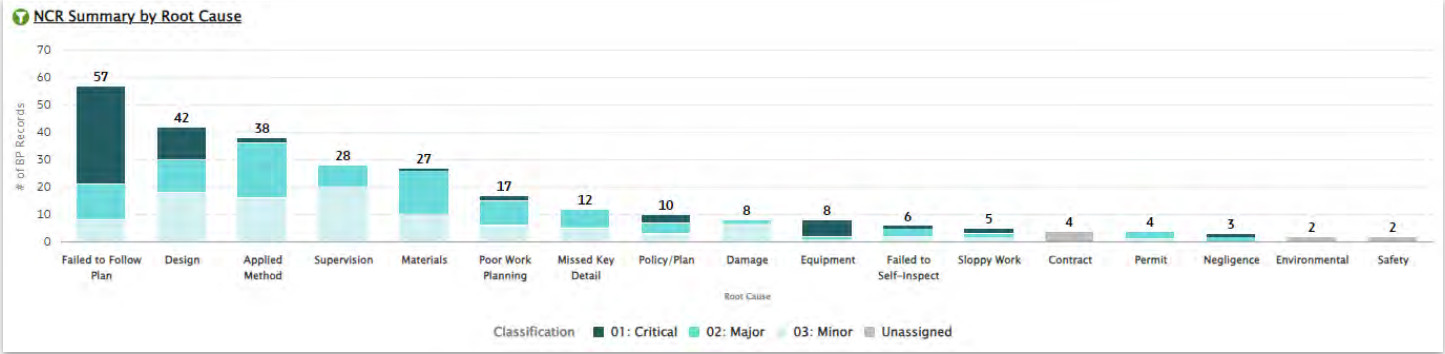
- Quality Management Plan Revision 7.0 Approved & Posted in PMIS.
- Quality Management Review and Audit Procedure updated and implemented.
- Developing in-house replacement for Canvasser application to aide with Public Involvement.

### Look Ahead

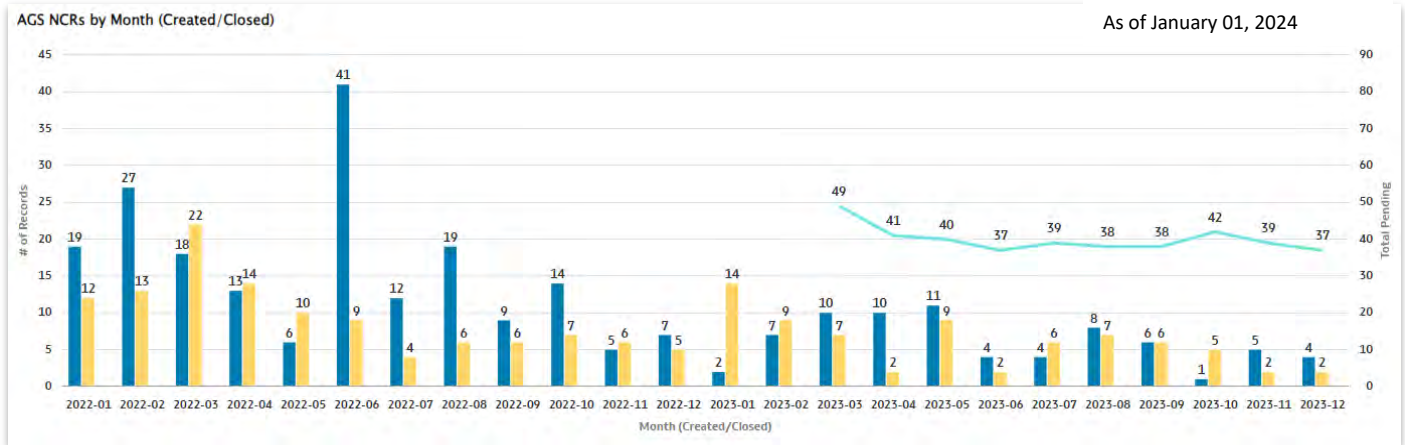
- Annual Quality Review Procedure, HART-Furnished Materials Procedure, and Field Report Procedure under final review.
- Field Report Procedure and Non-Conformance Reporting Procedure in draft.
- Searching for opportunities to fill Quality Engineering, Asset Management and Business Analytics positions.

The common root causes between NCRs across **all contracts** are shared with contractors to encourage creation and deployment of better preventative actions. Analysis of the current NCR root cause data provides opportunity for additional quality assurance efforts in the upfront design and planning of the CCGS contract.

As of January 01, 2024



The chart below illustrates the number of NCRs opened versus closed in each month for the AGS contract. Not included in the graph are three (3) open NCRs from 2021. The new graph includes a trend line representing the total number of pending NCRs at month end; this can be used to monitor and project when all AGS NCRs will be closed. This graph is not intended to discourage the contractor from opening NCRs, but instead to monitor trends of open NCRs prior to obtaining substantial completion.



## 2.18 Safety and Security (S&S)

### Key Milestone Progress

- Segment 2 is 83% complete with 9,410 of 11,336 items verified to date in December, 382 items were closed.
- Certification efforts are focused on the Guideway and Stations as they near completion.
- Safety is tracking the status of the Energization Hold Point. SSRC review and approval of this document is required prior to the implementation of permanent power to the 3rd rail in Segment 2.
- An owner-controlled insurance program (OCIP) inspection was conducted by representatives of Marsh on December 20, 2023. No major safety hazards were identified. The minor hazards noted were discussed and corrected on site.

### Segment 2 Operational Readiness Certification Status

The numbers in the Segment 2 Certification Status table have been reviewed and verified. Checklists are uploaded to Dropbox for DTS and HDOT review. Monthly summary numbers may change from the previous month, based on more refined contractor safety submissions.

Segment 2 (AGS) Certification Progress	Total Items	Verified 1/1/2023	Verified to Date	Total Remain	% Complete
Guideway (Civil & Systems)	3,414	3,126	3,352	62	98%
Stations & Parking (Civil & Systems)	4,386	2,645	3,615	771	82%
Pass Vehicles (Segment 2)	2,028	1,521	1,839	189	91%
Traction Electrification System (TES)	61	4	4	57	7%
Automatic Train Control (ATC)	29	3	10	19	34%
Suprv Control and Data Acq (SCADA)	14	3	4	10	29%
Communication	186	11	64	122	34%
System Integration Testing (SIT)	23	-	-	23	0%
Passenger Screen Gate Sys (PSGS)	20	5	-	20	0%
Elevators / Escalators	141	39	43	98	30%
Fare Collection	48	-	-	48	0%
Art in Transit	47	-	31	16	66%
Operational Readiness (ORCC/TOCC)	154	-	-	154	0%
Risk Management (PHA/TV/A/OIL/HTL)	785	448	448	337	57%
<b>Total Segment 2 - AGS</b>	<b>11,336</b>	<b>7,805</b>	<b>9,410</b>	<b>1,926</b>	<b>83%</b>

**Construction Safety and Security: Safety and Security Incidents**

Incidents for December 2023:

• Reportable Safety Incidents:

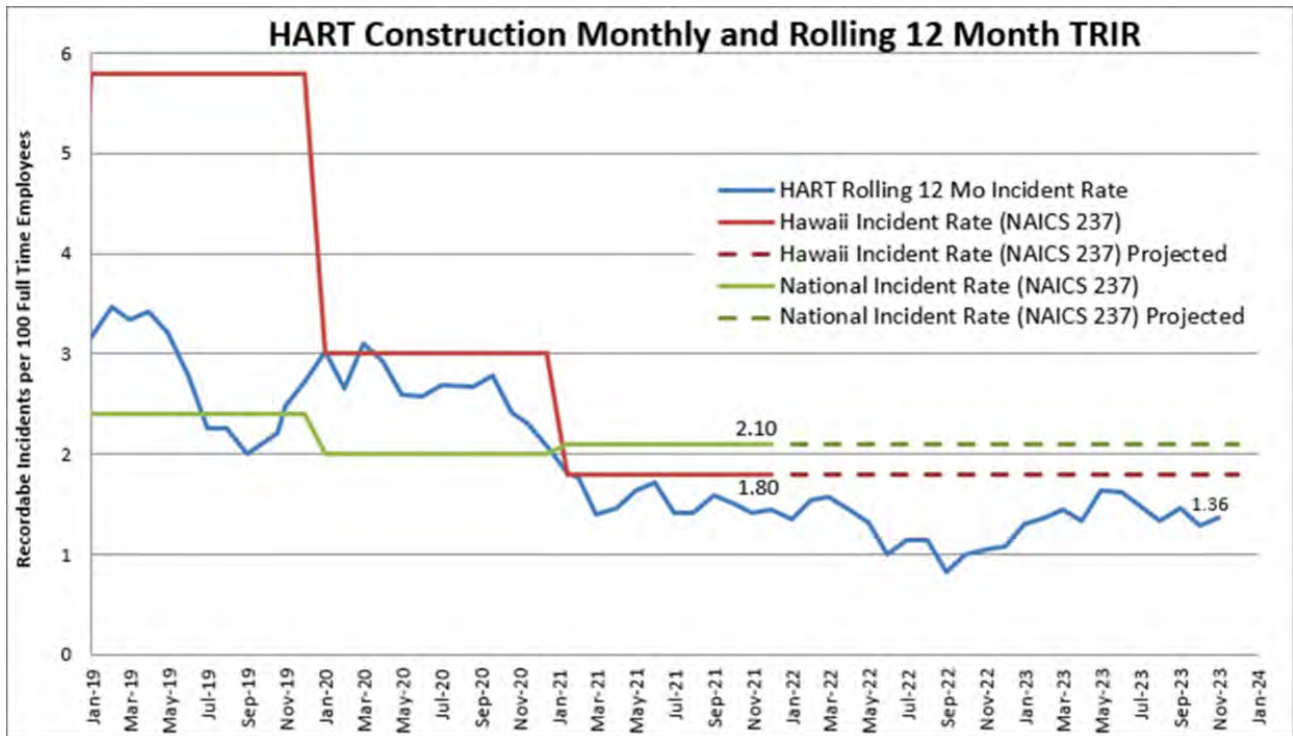
- 12/02/23: Upon returning home from work, an employee noticed eye irritation and was able to remove a small metal piece from his eye. The employee was wearing eye protection during his work shift and did not report any pain or discomfort. The employee returned to work on 12/04/2023 (Monday) without any restrictions.
- 12/05/23: An employee stepped out of a shallow trench and rolled his ankle on a loose rock. First aid was applied and he continued to work.
- 12/05/23: An employee was operating an excavator within its safety swing-radius. During the swing, another employee was hit in the head by the bucket. No serious injury was reported.
- 12/15/23: Two employees working in a scissor lift were installing a drywall. While adjusting the drywall and lift, the drywall moved and hit one of the employees in the head, knocking off his hard hat and causing slight neck pain. The employee was evaluated and returned to work with no restrictions.
- 12/20/23: While using a hammer drill with a spade attachment, an employee was digging around exposed utilities. Weather conditions were overcast, with a constant drizzle of rain. The worker went to turn off the "eco" button on the generator when he received a minor shock. No injury or burn was reported.

• Security Incidents:

12/08/23: At a contractor site, locks and chains were cut and several items were stolen from a toolbox. The incident was reported to the police and a police report was filed (Report #23-4642XX).

• Reportable Safety Incidents:	2022			2023		
	OCIP Participants Hours worked	No. of Recordable	No. of Loss Time	OCIP Participants Hours worked	No. of Recordable	No. of Loss Time
January	77,946	0	0	47,227	1	1
February	97,779	1	0	47,557	1	0
March	115,277	0	0	53,335	0	0
April	110,213	1	0	45,612	0	0
May	98,248	0	0	47,785	1	0
June	48,403	0	0	65,452	0	0
July	133,862	1	1	75,447	0	0
August	103,090	1	0	44,526	0	0
September	112,936	0	0	45,412	0	0
October	100,733	1	0	36,725	0	0
November	46,782	0	0	16,520	0	0
December	65,941	1	1			
Total / To Date	1,111,210	6	2	522,598	3	1
OSHA Total Recordable Incident Rate (TRIR)	12 Month TRIR for December 2022			12 Month - Rolling TRIR		
	1.08			1.36		

• Reportable Safety Incidents:	2022			2023		
	OCIP Participants Hours worked	No. of Recordable	No. of Loss Time	OCIP Participants Hours worked	No. of Recordable	No. of Loss Time
Work hours from OCIP enrolled contracts. The “No. of Recordable” reflects only the incidents that required medical treatment and/or resulted in lost time.						



## 2.19 Buy America Compliance (49 CFR 661 and 49 CFR 663)

### Overview and Key Issues

- As manufacturing continues in Miami, Florida, PV #20 is monitored by the resident inspector for any changes in components that could affect the Buy America (BA) calculation; this is an ongoing action.
- HART continues to track the Passenger Vehicle Bill of Materials for impacts to BA.

PV #	Anticipated Date for BA Compliance	Open Issues
1	Completed	Train is in the MSF. Static and dynamic testing has been completed. HART’s audit of modifications for BA compliance has been completed.
2	Completed	Train is in the MSF. Static and dynamic testing has been completed. HART’s audit of modifications for BA compliance has been completed.
3	Q4 2023	Train is in the MSF. Static and dynamic testing has been completed.
4	Q4 2023	Train is in the MSF. Static and dynamic testing has been completed.
5	Completed	Train is in the MSF. Static testing has been completed. HART’s audit of modifications for BA compliance has been completed.
6	Completed	Train is in the MSF. Static and dynamic testing has been completed. HART’s audit of modifications for BA compliance has been completed. Wider wheels were installed and tested.
19	Completed	Train is in the MSF. Static and dynamic testing has been completed. HART’s audit of modifications for BA compliance has been completed.
20	Q4 2023	Hitachi Rail USA (HRU) continues assembly of PV #20 in Miami, Florida. HRU is planning to complete PV #20 in Miami, Florida in January 2024.

PV #7 through #18 were transferred to DTS.

## 2.20 Disadvantaged Business Enterprise (DBE)

### Activities this Month

- \$214,535,476 = total dollar participation for all DBEs on all HART contracts from September 2007 to December, 2023.

- 26.6% = DBE utilization on total disbursed 5309 Project FTA funds received to date (\$214,535,476 divided by \$806,258,734).
- 12.5% = DBE utilization to date on total Project FTA funds (\$214,535,476 divided by \$1,713,750,000).
- 13.8% = DBE utilization to date on 5309 Project FTA funds (\$214,535,476 divided by \$1,550,000,000).
- 13% = DBE Project Goal. Any contract subject to the Federal Clauses has a 13% Race Neutral DBE goal.

## 2.21 Community Outreach

### Overview

- Coordinated construction activities with property owners and tenants to ensure awareness and to minimize impacts.
- Continued outreach and public notification to area residents, businesses, and stakeholders along Segment 2 and Segment 3 of the alignment.
- Supported the planning of Business and Community meetings for the CCUR III Downtown and CCUR IV Dillingham contract segments.
- A construction update video was completed for the project website, social media, and eBlast platforms.
- Distributed holiday flyer to the Project Staff with messaging supporting local businesses that are open during rail construction work.
- Continued to update the construction overview, traffic updates, and news release sections for the HART website.
- Supported the HART ED-CEO, Board of Directors (BOD) and its committees in preparation for their regularly scheduled BOD meetings.

### Community Input

- Responded to public inquiries and comments via the 24-hour project hotline and project email. Inquiries and comments were generally related to project updates, public concerns, road closures, and Skyline.
- Ongoing communication with the public and area stakeholders to address project-related impacts, issues, and concerns.



# APPENDICES

**Appendix A. List of Acronyms**

A&E	Architect/Engineer	BAC	Buy America Compliance
AACE	Association for the Advancement of Cost Engineering	BACM	Buy America Compliance Matrix
AAN	Accepted as Noted	BAFO	Best and Final Offer
AANR	Accepted as noted, resubmit	BANCT	Best Available Noise Control Technology
AC	Asphalt Concrete	BAP	Buy America Plan
ACB	Articulated Concrete Block	BART	Bay Area Rapid Transit
ACHP	Advisory Council on Historic Preservation	BCS	Balanced Cantilever System
ACI	Application Centric Infrastructure	BCU	Brake Control Unit
ACS	Access Control Systems	BFMP	Bus Fleet Management Plan
ADA	Americans with Disabilities Act	BFS	Budget and Fiscal Services
AEC	American Electric Co.	BIC	Ball in Court
AEPAC	Architecture & Engineering Serving the Pacific Region	BLNR	Board of Land and Natural Resources
AF	Audio Frequency	BLS	Blue Light Station
AFA	Air Force Association	BMP	Best Management Practice
AFE	Authorized for Expenditure	BOC	Backup Operations Center
AG	Attorney General	BOCC	Backup Operations Control Center
AGA	Association of Government Accountants	BOD	Board of Directors
AGS	Airport Guideway and Stations	BOH	Bank of Hawaii
AHA	Activity Hazard Analysis	BOM	Bill of Materials
AHJ	Authority Having Jurisdiction	BPS	Baseline Project Schedule
AHU	Air Handling Units	BRB2	Build Rail Better-2
AI	Artificial Intelligence	BUE	Bottom-Up Estimate
AIS	Archaeological Inventory Survey	BUEG	Back-up Emergency Generator
AISP	Archaeological Inventory Survey Plan	BUILD	Better Utilizing Investments to Leverage Development
AIT	Art-in-Transit	BWS	Board of Water Supply
ALS	Aloha Stadium Station	C2C	Cost to Cure
AMD	Amendment	C&C	City and County
AMP	Archaeological Monitoring Plan	CA	Contract Amendment
ANR	Accepted as Noted, Resubmit	CAD	Computer-Aided Design
APE	Area of Potential Effect	CADD	Computer-aided Design and Drafting
API	Application Programming Interface	CAM	Construction Access Milestone
APS	Auxiliary Power Supply	CAP	Corrective Action Plan
APTA	American Public Transportation Association	CAR	Corrective Actions
ARPA	American Rescue Plan Act	CAT7	Category 7
ARRA	American Recovery and Reinvestment Act	CatEx	Categorical Exclusion
ARU	Auxiliary Release Units	CC2	City Center Phase 2
ASA	Aloha Stadium Authority	CC3	City Center Phase 3
ASCE	American Society of Civil Engineers	CCB	Change Control Board
ASG	Airport Station Group	CCC	Contract Change Committee
ASI	Architect Supplemental Information	ccd	Consecutive Calendar Days
ASTM	American Society for Testing and Materials	CCGS	City Center Guideway and Stations
ASU	Airport Section Utilities	CCH	City and County of Honolulu
ATB	Asphalt Treated Base	CCO	Contract Change Order
ATC	Automatic Train Control	CCP	Certified Cost Professional
ATFAC	Active Transportation and Food Access Committee	CCTV	Closed-circuit Television
ATO	Automatic Train Operation	CCUG	City Center Section Utilities and Guideway
ATP	Automatic Train Protection	CCUR	City Center Utilities Relocation
ATS	Automatic Train Supervision	CDC	Compendium of Design Criteria
AV	Autonomous Vehicle	CDL	Commercial Driver License
AVA	Anil Verma Associates, Inc.	CDR	Conceptual Design Review
AVS	Address Verification Systems	CDRL	Contract Deliverables Requirement List
AW0	Assigned Weight, Empty Vehicle (rail car weight with no passengers)	CEB	Civil Engineering Branch
AW3	Assigned Weight, Crush Load (empty weight plus crush load of standees)	CEI	Construction Engineering and Inspection
BA	Buy America	CEL	Certifiable Elements List
		CEO	Chief Executive Officer

CERCLA	Comprehensive Environmental Response Compensation and Liability Act of 1980	D&C	Design & Construction
CFM	Configuration Management	DAGS	Department of Accounting and General Services
CFMP	Configuration Management Plan	DAV	Disabled American Veterans
CFO	Chief Financial Officer	DB	Design-Build
CHB	Car History Book	DBB	Design-Bid-Build
CIC	Communication Interface Cabinet	DBE	Disadvantaged Business Enterprise
CID	Customer Installation Department	DBEDT	Department of Business, Economic Development and Tourism
CIL	Certifiable Items List	DBF	Design-Build-Finance
CIP	Cast-in-place	DBFOM	Design-Build-Finance-Operate-Maintain
CJA	Condon-Johnson & Associates	DBOM	Design-Build-Operate-Maintain
CLOMR	Conditional Letter of Map Revision	DCAB	Disability and Communication Access Board
CLR	Cultural Landscape Report	DCCA	Department of Commerce and Consumer Affairs
CLSM	Controlled Low-strength Material	DCCC	Design Criteria Conformance Checklists
CM	Construction Manager	DCN	Design Change Notice
CMP	Construction Management Plan	DD	Definitive Design
CMU	Concrete Masonry Unit	DDC	Department of Design and Construction
CNMMP	Construction Noise Mitigation and Monitoring Plan	DDC-MED	Department of Design & Construction-Mechanical & Electrical Division
CNVMP	Construction Noise and Vibration Mitigation Plan	DED	Deputy Executive Director
CO	Change Order	DED-COO	Deputy Executive Director and Chief Operating Officer
COI	Conflict of Interest	DF	Direct Fixation
COMMs	Communications	DFE	Direct Fixation Fastener
CONRAC	Consolidated Rental Car Facility	DFIM	Design Furnish Install Maintain
COO	Chief Operating Officer	DFM	Department of Facility Maintenance
COR	Corporation Counsel	DHHL	Department of Hawaiian Homelands
CORP	Central Oahu Regional Park	DHR	Department of Human Resources
CP	Consulting Parties	DHS	Department of Homeland Security
CPC	Contractor Proposed Cost	DID	Destination Identification
CPM	Critical Path Method	DIT	Department of Information Technology
CPO	Chief Procurement Officer	DKSG	Dillingham and Kaka'ako Station Group
CPP	Contract Packaging Plan	DLIR	Hawai'i Department of Labor and Industrial Relations
CR	Consolidated Resolution	DLM	Department of Land Management
CRM	Customer-Relationship Management	DLNR	Department of Land and Natural Resources
CRMS	Customer Relational Management System	DMWR	Double Crossover Flangeway Modifications and Weld Repair
CROE	Construction Right of Entry	DOE	Department of Education
CRRB	Car Readiness Review Board	DOH	Department of Health
CSC	Core Systems Contractor	DOJ	Department of Justice
CSCC	Construction Specification Conformance Checklist	DOL	Department of Labor
CSD	Department of Customer Services	DOT	Department of Transportation
CSDBOM	Core System Design-Build-Operate-Maintain	DPM	Deputy Project Managers
CSFAD	Core Systems Force Account Directive	DPP	Department of Planning and Permitting
CSH	Cultural Surveys Hawai'i, Inc.	DPR	Department of Parks and Recreation
CSL	Cross Hole Sonic Logging	DPS	Department of Public Safety
CSOC	Core Systems Oversight Consultant	DRH	D.R. Horton
CSSC	Core System Support Consultant	DS	Downstream
CSSM	Construction Safety and Security Manager	DSDC	Design Services During Construction
CSSP	Construction Safety & Security Plan	DSS	Director of Safety and Security
CST	Customer Service Terminal	DTL	Digital Train Link
CTP	Central Test Procedure	DTS	Department of Transportation Services
CTS	Communications Transmission System	DTU	Dillingham Temporary Utilities
CTV	Cable Television	DUF	Division of Urban Forestry
CW	Contract-Wide	DURP	Department of Urban and Regional Planning
CWA	Clean Water Act	DVT	Design Verification Test
CWB	Confirmed Wire Break	DXO	Double Crossover
CWR	Continuous Welded Rail	E&E	Elevators and Escalators
CWRM	Commission on Water Resource Management	E&O	Errors and Omissions
CZM	Coastal Zone Management	EA	Environmental Assessment

EAC	Estimate at Completion	FDAS	Fire Detection Alarm System
EB	East Bound	FDC	Field Design Change
EC	Environmental Compliance	FDR	Final Design Review
ECD	Expected Completion Date	FDS	Fire Detection System
ECP	Environmental Compliance Plan	FEIS	Final Environmental Impact Statement
EDAC	Enhanced Digital Access Communication System	FEMA	Federal Emergency Management Agency
ED-CEO	Executive Director and Chief Executive Officer	FFC	Fixed Facility Contractor
EDD	Executive Decision Document	FFGA	Full Funding Grant Agreement
E/E	Elevator/Escalator	FHB	First Hawaiian Bank
EEC	Elevators & Escalators Contractor	FHSG	Farrington Highway Station Group
EFT	Electronic Funds Transfer	FHWA	Federal Highway Administration
EHE-EHMP	Environmental Hazard Evaluation and Environmental Hazard Management Plan	FISC	Fleet and Industrial Supply Center
EHU	Electro Hydraulic Units	FIT	Field Integration Test
EI	Engineering Installation	FLSWG	Fire/Life-Safety Working Group
EIS	Environmental Impact Statement	FM	Force Main
EJ	Expansion Joint	FMB	Fasi Municipal Building
EKP	East Kapolei	FMEA	Failure Modes and Effects Analysis
EMC	Electromagnetic Compatibility	FMECA	Failure Modes, Effects, and Criticality Analysis
EMF	Electromagnetic Forces	FNC	Final Negotiated Cost
EMI	Electromagnetic Interference	FO	Fiber Optic
EMP	Emergency Management Panel	FOCN	Fiber Optic Communication Network
EMR	Elevator Machine Room	FOM	Finding of Merit/No Merit
EMS	Emergency Medical Services	FP	Fix Panel
EMT	Electrical Metallic Tubing	FPM	Fix Panel Mono
ENV	City and County of Honolulu Department of Environmental Services	FPO	Federal Preservation Officer
EOM	End of Month	FRACAS	Failure Reporting, Analysis, and Corrective Action System
EOR	Engineer of Record	FRB	Failure Review Board
EOS	Electrically Operated Switch	FSC	Fare Systems Contract
EPA	United States Environmental Protection Agency	FSE	Full-Scale Exercise
EPB	Emergency Push Button	FSP	Fire Stand Pipe
EPO	Emergency Power Cut-off	FTA	Federal Transit Administration
ER	Emergency Room	FTB	Fluidized Thermal Backfill
ERD	Environmental Review Documentation	FTE	Full-Time Equivalent
ESA	Environmental Site Assessment	FUT	Functional Unit Testing
ESSG	East Side Station Group	FVCCC	Frank V. Coluccio Construction Company, Inc.
ETA	Estimated Time of Arrival	FWS	Fish and Wildlife Service
ETC	Estimate to Complete	FY	Fiscal Year
E-Tel	Emergency Telephone	GAT	Great Aleutian Tsunami
ETS	Emergency Trip System	GBS	Gap Breaker Station
EV	Expected Value	GC	General Contractor
EVC	Electronic Vehicle Counter	GDR	Geotechnical Data Report
F&P	Fehr & Peers	GEC	General Engineering Consultant
FAA	Federal Aviation Administration	GER	Geotechnical Engineering Report
FACI	First Article Configuration Inspection	GET	General Excise and Use Tax
FAI	First Article Inspection	GFCI	Ground-Fault Circuit Interrupter
FAIN	Federal Award Identification Number	GGP	General Growth Properties
FAQ	Frequently Asked Question	GIS	Geographical Information System
FAR	Floor Area Ratios	GOE	Grant of Easement
FAT	Factory Acceptance Testing	GPR	Ground Penetrating Radar
FBF	Flange Bearing Frog	GPS	Global Positioning System
FC	Fare Collection	GR & PI	Government Relations & Public Involvement
FCC	Federal Communications Commission	GRP	Glass Reinforced Plastic
FCN	Field Change Notice	GSA	General Services Administration
FCU	Fan Coil Units	GT	General Terms
FD	Final Design	GTC	General Terms and Conditions
		GTFS	General Transit Feed Specification

GW	Guideway	HRU	Hitachi Rail USA
HA	Hazard Analysis	HSNWG	Hawaiian Station Naming Working Group
HABS	Historic American Buildings Survey	HSQE	Health, Safety, Quality and Environment
HACBED	Hawai'i Alliance for Community-Based Economic Development	HSSQE	Health Safety Security Quality and Environment
HAER	Historic American Engineering Record	HTI	Hawaiian Telcom
HALS	Historic American Landscape Survey	HTL	Hazard Tracking Log
HAR	Hawai'i Administrative Rules	HV	High Voltage
HART	Honolulu Authority for Rapid Transportation	HVAC	Heating, Ventilation, and Air Conditioning
HAZMAT	Hazardous Materials	HVPP	High Voltage Power Pole
HBL	Hawaii Bicycling League	I&I	Installation and Interface
HCC	Honolulu Community College	I&T	Inspection & Testing
HCDA	Hawai'i Community Development Authority	IAMR	Interstate Access Modification Report
HCP	Habitat Conservation Plan	IBEW	International Brotherhood of Electrical Workers
HCS	Historic Context Studies	IC	Interim Certification
HCSD	Hawai'i Capital Special District	ICAP	Individual Corrective Action Plan
HDCC	Hawaiian Dredging Construction Company	ICCS	Integrated Communications Control System
HDD	Horizontal Directional Drilling	ICD	Interface Control Documents
HDOE	Hawai'i Department of Education	ICE	Independent Cost Estimate
HDOH	Hawai'i Department of Health	ICEO	Interim Chief Executive Officer
HDOT	Hawai'i Department of Transportation	ICM	Interface Control Manual
HDOT-A	Hawai'i Department of Transportation Airports Division	ICWG	Interim Certification Working Group
HDPE	High-density polyethylene	IDIQ	Indefinite Delivery/Indefinite Quantity
HECO	Hawaiian Electric Company	IDS	Intrusion Detection System
HEER	Hazard Evaluation and Emergency Response	IEEE	Institute of Electrical and Electronics Engineers
HEI	High Energy Inc.	IFB	Issued for Bid
HFD	Honolulu Fire Department	IFC	Issued for Construction
HFFC	Hawaii Fueling Facilities Corporation	IIT	Integrated Industrial Technology
HH	Handhole	IJ	Isolation Joint
HHC	Howard Hughes Corp	IMP	Interface Management Plan
HHF	Historic Hawai'i Foundation	INMS	Integrated Network Management System
HHFDC	Hawaii Housing Finance & Development Corporation	I/O	Interim Opening
HHM	Hardy Heck Moore	IOMP	Intermediate Operations and Maintenance Period
HHPRB	Hawai'i Historic Places Review Board	IP	Implementing Procedures
HIA	Honolulu International Airport	IPP	Internal Pin Pad
HICRIS	Hawai'i Cultural Resource Information System	IRTP	Individual Role Training Plans
HIE	Hawaii Independent Energy	IRWA	International Right of Way Association
HILT	Hawaiian Islands Land Trust	IST	Integrated System Test
HIOSH	Hawaii Occupational Safety and Health Division	IT	Information Technology
HNTB	HNTB Corporation	ITB	Instructions to Bidders
HOP	Ho'opili	ITE	Institute of Transportation Engineers
HP	Historic Preservation	ITL	Incidental Take License
HPC	Historic Preservation Committee	ITO	Invitation to Offerors
HPCA	Historic Preservation Certification Application	ITP	Inspection and Test Plan
HPCAT	Historic Preservation & Cultural Awareness Training	ITS	Intelligent Transportation Systems
HPD	Honolulu Police Department	IVR	Interactive Voice Response
HPF	Historic Preservation Fund	JB	Junction Box
HPL	Horizon Partners Ltd.	JDSU	JDS Uniphase Corporation
HPR	Hawai'i Public Radio	JG	Jet Grouting
HPU	Hawai'i Pacific University	JTMC	Joint Traffic Management Center
HR	Hitachi Rail	JTMS	Joint Traffic Management System
HRH	Hitachi Rail Honolulu Joint Venture	JU&O	Joint Use & Occupancy
HRHP	Hawai'i Register of Historic Places	JUOA	Joint Use and Occupancy Agreement
HRI	Hitachi Rail Italy	JV	Joint Venture
HRR	Heat Release Rate	KCC	Kapi'olani Community College
HRS	Hawai'i Revised Statutes	KCDD	Kaka'ako Community Development District
H RTP	Honolulu Rail Transit Project	KCH	Kanehili Cultural Hui

KHG	Kamehameha Highway Guideway	MPIS	Master Project Integrated Schedule
KHR	Kamehameha Highway Resurfacing	MPS	Master Project Schedule
KHSG	Kamehameha Highway Station Group	MPSS	Master Project Schedule Summary
KIA	Kaka’ako Improvement Association	MPV	Multipurpose Vehicle
KIWC	Kiewit Infrastructure West Company	MPY	Makai Precast Yard
KKJV	Kiewit/Kobayashi Joint Venture	MS4	Municipal Separate Storm Sewer System
KMO	Keehi Memorial Organization	MSDS	Material Safety Data Sheet
KPI	Key Performance Indicator	MSE	Mechanically Stabilized Earth
KS	Kamehameha Schools	MSF	Maintenance and Storage Facility
kV	Kilovolt	MSP	Maintenance Service Plan
KVIBE	Kalihi Valley Instructional Bike Exchange	MSTC	Middle Street Transit Center
KVM	Keyboard Monitor Mouse	MSTCS	Middle Street Transit Center Station
L+E	Lea +Elliott	MTM	Modern Track Machineries
LAN	Local Area Network	MUOA	Master Use and Occupancy Agreement
LCC	Leeward Community College	MV	Medium Voltage
LCP	Local Control Panel	NAICS	North American Industry Classification System
LD	Lagoon Drive	NCE	Non-Conformance Evaluation
LDS	Latter Day Saints	NCR	Non-Conformance Report
LED	Light-Emitting Diode	NDA	Non-disclosure Agreement
LEED	Leadership in Energy and Environmental Design	NDC	Notice of Design Change
LF	Linear Feet	NEPA	National Environmental Policy Act
LOO	Letter of Offer	NFPA	National Fire Protection Association
LOS	Level of Service	NGD	Negative Grounding Device
LOTB	Log of Test Borings	NGO	Non-governmental Organization
LPR	License Plate Reader	NHL	National Historic Landmark
LRV	Light Rail Vehicle	NIC	Not in contract
LSVA	Location Specific Vulnerability Assessment	NLT	No later than
LT	Load Test	NMS	Network Management System
LTC	Load Tap Changer	NOI	Notice of Intent
LTKS	Left Turn into Kuala Street	NPDES	National Pollutant Discharge Elimination System
LV	Low Voltage	NPS	National Park Service
LVPS	Low Voltage Power Supply	NPW	Non-Potable Waterline
MA	Master Agreement	NR	National Register
MAI	Mason Architects	NRHP	National Register of Historic Places
MCY	Makai Casting Yard	NSM	Negotiations Strategy Memo
MD	Managing Director	NSP	Network Service Platform
MDO	Office of the Managing Director	NTE	Not to Exceed
MDS	Mobile Data System	NTP	Notice to Proceed
MED	Mechanical/Electrical Division	NTS	Network Time Server
MEP	Mechanical, Electrical and Plumbing	NUC	Next Unit of Computing
MH	Manhole	NWP	Nationwide Permit
MHHW	Mean Higher High Water	O&M	Operations and Maintenance
MID	Merchant Identification Number	O&R	Operation & Readiness
MIM	Manufacture-Install-Maintain	OahuMPO	Oahu Metropolitan Planning Organization
MIMS	Media Inventory Management System	OCC	Operations Control Center
MIP	Manufacturing and Inspection Plans	OCCC	Oahu Community Correctional Center
MITT	Multimodal Integration Technical Team	OCCL	Office of Conservation and Coastal Lands
MMIS	Maintenance Management Information System	OCD	Overhead Coiling Doors
MMP	Mitigation Monitoring Program	OCIP	Owner-controlled Insurance Program
MOA	Memorandum of Agreement	ODC	Other Direct Costs
MOS	Minimum Operable Segment	OEQC	Office of Environmental Quality Control
MOT	Maintenance of Traffic	OH	Overhead
MOU	Memorandum of Understanding	OHA	Office of Hawaiian Affairs
MOW	Maintenance of Way	OIBC	O’ahu Island Burial Council
MPD	Multiple Property Documentation	OIC	Officer-in-Charge
MPH	Miles Per Hour	OIL	Open Items List

OIP	Order of Immediate Possession	PIM	Project Interface Manager
OJT	On-the-Job Training	PIN	Personal Identification Number
OMP	Operations and Maintenance Plan	PIP	Public Involvement Plan
OMPO	Oahu Metropolitan Planning Organization	PIS	Passenger Information System
OP	Oversight Procedure	PJKK	Prince Jonah Kuhio Kalanianaʻole
OR	Operational Readiness	PL	Punchlist
OR&L	Oahu Railway & Land Co.	PLA	Project Labor Agreement
OR1	Operational Readiness #1	PLO	Priority-Listed Offerors
ORCC	Operational Readiness Conformance Checklist	PLR	Pearlridge Station
ORTP	Oahu Regional Transportation Plan	PM	Project Managers
OSB	Operations & Servicing Building	PMC	Project Management Consultant
OSC	On Site Coordinators	PMIM	Project Management and Interface Management
OSHA	Occupational Safety and Health Administration	PMIS	Project Management Information System
OSIT	On-Site Inspection Test	PMO	Project Management Oversight
OSM	Owner Supplied Materials	PMOC	Project Management Oversight Contractor
OTDR	Optical Time Domain Reflectometer	PMP	Project Management Plan
OTR	One-Time Review	PMSC	Program Management Support Consultant
OTS	Oahu Transit Services, Inc.	PNR	Park-and-Ride
OTW	Oceanic Time Warner	PO	Purchase Order
OTWC	Oceanic Time Warner Cable	POC	Point of Contact
OWG	Operation Working Group	POP	Period of Performance
P&F	Planning and Facilities	POS	Point of Sales
P3	Public-Private Partnership	PP	Project Procedures
PA	Programmatic Agreement	PPE	Personal Protective Equipment
PAC-STEP	Pacific Summer Transportation Education Program	PPEC	Pacific Power Electrical Contracting
PAIS	Programmatic Agreement Implementation Schedule	PRME	Keoneʻae Station Park and Ride & Puhala Station Makai Entrance
PARs	Preventative Actions	PRSR	Pre-Revenue Service Review
PASG	Passenger Automatic Screen Gates	PRTCC	Pre-revenue Testing Conform Checklist
PAT	Production Acceptance Test	PS&E	Plans, Specifications & Estimates
PB	Parsons Brinckerhoff, Inc.	PSC	Personal Services Contract
PC	Precast Concrete	PSG	Platform Screen Gate
PCC	Portland Cement Concrete	PSGS	Platform Screen Gates System
PCCP	Portland Cement Concrete Pavement	PSIT	Pre-Shipment Installation Testing
PCI	Payment Card Industry	PSS	Public Sector Solutions
PCN	Potential Change Notice	PT	Post-tensioned
PCY	Precast Yard	P-Tel	Passenger Assistance Telephone
PD	Position Description	PTG	Parsons Transportation Group
PDR	Preliminary Design Review	PTR	Preliminary Title Report
PE	Preliminary Engineering	PUA	Possession and Use Agreements
PF	Power Frequency	PUC	Public Utilities Commission
PFP	Project Financial Plan	PUP	Property Utilization Plan
PGC	Pacific Guardian Center	PV	Passenger Vehicle
PH	Pearl Highlands	PVC	Polyvinyl Chloride
PHA	Preliminary Hazard Analysis	PWS	Passenger WiFi System
PHGTC	Pearl Highlands Parking Garage and Transit Center	QA	Quality Assurance
PHL	Pearl Highlands Station	QAM	Quality Assurance Manager
PHNB	Pearl Harbor Naval Base	QAP	Quality Assurance Plan
PHPR	Pearl Highlands Park and Ride	QAQC	Quality Assurance and Quality Control
PHPS	Pearl Highlands Parking Structure	QC	Quality Control
PHPTR	Pearl Highlands Parking Structure, Transit Center and Ramp H2R1	QMP	Quality Management Plan
PHS	Pearl Harbor Station	QMR	Quality Management Review
PI	Public Involvement	QMS	Quality Management System
PICM	Project Interface Control Manual	Q-Pol	Quality Policy
PICO	Post Installation Check Out	QSA	Qualified Security Assessor
PID	Parcel Identification Number	QTF	Quality Task Force
PIG	Permitted Interaction Group	QTO	Quantity Takeoff

R&A	Readiness and Activation	SAT	System Acceptance Test
R&R	Revise & Re-submit	SAV	Shared Autonomous Vehicle
RA	Risk Assessment	SC	Signal Corps
RAC	Rail Activation Committee	SCADA	Supervisory Control and Data Acquisition
RACI	Responsible, Accountable, Consulted and Informed	SCAP	Stream Channel Alteration Permit
RAM	Reliability, Availability, and Maintainability	SCC	Standard Cost Category
RAMP	Real Estate Acquisition Management Plan	SCH	Satellite City Hall
RAMS	Reliability, Availability, Maintainability and Security	SDC	Services During Construction
RAP	Rail Activation Plan	SEAOH	Structural Engineers Association of Hawaii
RAT	Routine Acceptance Test	SF	Square Feet
RC	Reinforced Concrete	SFP	Small Form-factor Pluggable
RCMP	Risk and Contingency Management Plan	SHPD	State Historic Preservation Division
RCP	Reinforced Concrete Pipe	SHPO	State Historic Preservation Officer
RE	Resident Engineer	SIC	Sandwich Isle Communications
READ	Real Estate Acquisition Database	SIM	Subscriber Identity Module
REC	Real Estate Consultant	SIRP	Safety Incident Review Panel
RFB	Request for Bids	SIT	System Integration Testing
RFC	Request for Change	SITP	System Integration Test Plan
RFCC	Request for Change from Contractor	SITR	Site Inspection and Test Report
RFCR	Request for Change by HART	SL	Street Light
RFHB	Request for High Bids	SLAN	Secured Local Area Network
RFI	Request for Information	SLR	Sea Level Rise
RFID	Request for Interface Data	SM	Service Manager
RFMP	Rail Fleet Management Plan	SMA	Special Management Area
RFP	Request for Proposals	SME	Subject Matter Expert
RFQ	Request for Qualifications	SMMA	System Monitoring and Management Application
RFV	Request for Variance	SMPS	Society for Marketing Professional Services
RHB	Road and Highway Builders, LLC	SMS	Structural Monitoring Solutions
RIMS II	Regional Input-Output Modeling System	SOG	Slab on Grade
RLB	Rider Levett Bucknall	SOI	Secretary of the Interior
RLS	Request for Legal Services	SON	Summary of Negotiations
RMC	Rigid Metal Conduit	SOP	Standard Operating Procedures
RMS	Remote Monitoring System	SOW	Scope of Work
RMTC	R.M. Towill Corporation	SP	Special Provisions
RNR	Revise and Resubmit	SQP	Supplemental Quality Plan
ROC	Rail Operations Center	SS	System Site
ROD	Record of Decision	SSA	System Service Availability
ROE	Right of Entry	SSAC	System Service Availability Calculator
ROH	Revised Ordinances of Honolulu	SSC	Safety Security Certification
ROM	Rough Order of Magnitude	SSCP	Safety and Security Certification Plan
ROW	Right-of-Way	SSCVR	Safety and Security Certification Verification Report
RP	Recovery Plan	SSCWG	Safety and Security Certification Working Group
RR	Risk Register	SSI	Sensitive Security Information
RSD	Revenue Service Date	SSID	Service Set Identifier
RST	Retail Sales Device Training	SSL	Secure Socket Layer
RTE	Request to Exceed Negotiation Strategy Memo Target	SSMP	Safety and Security Management Plan
RTM	Requirements Traceability Matrix	SSMR	Standing Seam Metal Roofing
RTSA	Rapid Transit Stabilization Agreement	SSOA	State Safety Oversight Agency
RVB+A	Raul V. Bravo + Associates, Inc.	SSP	System Security Plan
RW	Roadway	SSRC	Safety and Security Review Committee
S&S	Safety and Security	SSSP	Site Safety Security Plan
S1	Segment 1	STATCOM	Static Synchronous Compensator
SA	Supplemental Agreement	STCC	Specification Testing Conformance Checklists
SAIS	Supplemental Archaeological Inventory Survey	STCH	Sustainable Transportation Coalition of Hawai'i
SAME	Society of American Military Engineers	STG	Shimmick/Traylor/Granite, Joint Venture
SAMP	System Assurance Monitoring Plan	STP	System Test Procedure



SUBD	Subdivision Branch	TTCI	Transportation Technology Center, Inc.
SUE	Subsurface Utility Engineering	TTSP	Temporary Traffic Signal Plans
SuMo	Sustainable Mobility	TUT	Temporary Utility Take
SuMoLab	Sustainable Mobility Lab	TVA	Threat and Vulnerability Assessment
SWPPP	Storm Water Pollution Prevention Plan	TVM	Ticket Vending Machine
SwRI	Southwest Research Institute	TWC	Train to Wayside Communication
SY	Square Yard	TWF	Train Wash Facility
T&C	Test & Commissioning	UCA	Utility Construction Agreement
T&M	Time and Material	UFCRA	Utility Facilities Relocation and Cost Reimbursement Agreement
TAB	Testing and Balancing	UG	Underground
TAC	Transit Art Committee	UH	University of Hawai'i
TAP	Track Allocation Procedure	UHPRB	UH West O'ahu Park and Ride & UHWO Campus Road "B"
TARSP	Transit Agency Rail Safety Plan	UHT	Ulu HI-Tech
TAT	Transient Accommodations Tax	UHWO	University of Hawai'i West O'ahu
TBD	To Be Determined	UL	Underwriters Laboratories
TC	Train Control	UOA	Use and Occupancy Agreement
TCA	Temporary Configuration Change	UOM	Unit of Measurement
TCCR	Train Control and Communications Room	UPC	Universal Product Code
TCE	Temporary Construction Easement	UPS	Uninterruptible Power Supply
TCMS	Train Control Monitoring System	URA	Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970
TCO	Temporary Certificate Occupancy	USACE	U.S. Army Corps of Engineers
TCP	Traffic Control Plan	USDOE	U.S. Department of Energy
TCS	Train Control System	USDOL	United States Department of Labor
TCU	Traction Control Unit	USDOT	U.S. Department of Transportation
TDFM	Travel Demand Forecasting Model	U.S. EPA	United States Environmental Protection Agency
TDM	Transportation Demand Management	USN	United States Navy
TEL	Telephone	USPS	U.S. Postal Service
TES	Traction Electrification System	UST	Underground Storage Tank
T for C	Termination for Convenience	UTR	Under Technical Review
TI	Traction Inverters	UU&O	Utility Use and Occupancy
TIA	Time Impact Analysis	VAR	Volt-Ampere Reactive
TID	Terminal Identification Number	VASA	Vario Statistics
TIGER	Transportation Investment Generating Economic Recovery	VCR	Vertical Conduit Raceway
TIP	Transportation Improvement Program	VCT	Vinyl Composition Tile
TIR	Total Incident Rate	VE	Value Engineering
TMK	Tax Map Key	VECP	Value Engineering Change Proposal
TMP	Traffic Management Plan	VISTA	Volunteers in Service to America
TO	Task Order	VMS	Variable Message Sign
TOC	The Outdoor Circle	VRC	Vertical Raceway Column
TOCC	Trial Operations Conformance Checklist	VRCS	Voice Radio Communication System
TOD	Transit-Oriented Development	VRF	Variable Refrigerant Flow
TOWH	Transform Our World Hawai'i	VTP	Vehicle Test Procedure
TP	Technical Provision	WA	Work Area
TP&R	Temporary Park & Ride	WB	West Bound
TPAR	Transit Property Acquisition and Relocation	WCS	Wireless Communication System
TPBG	Traction Power Backup Generator	WHS	Waipahu High School
TPBuGen	Traction Power Backup Generator	WJE	Wiss, Janney, Elstner Associates, Inc.
TPH	Total Petroleum Hydrocarbon	WKM	Walters Kimura Motoda, Inc.
TPO	Thermoplastic Polyolefin	WL	West Loch
TPSS	Traction Power Substation	WLO	West Loch
TR	Trial Running	WOEDA	West Oahu Economic Development Association
TRCC	Trial Running Conformance Checklist	WOFH	West O'ahu/Farrington Highway
TRIR	Total Recordable Incident Rate	WOSG	West O'ahu Station Group
TS	Traffic Signal	WQC	Water Quality Certification
TSA	Transportation Security Administration	WSS	West Side Stations
TSI	Transportation Safety Institute		

WSSG	West-side Station Group	WYL	West Yard Lead
WTB	Wheel Truing Building	YCB	Yard Control Bungalow
WTC	Waipahu Transit Center	YKE	Yogi Kwong Engineers
WTP	Wayside Test Procedure	YOE	Year of Expenditure
WTS	Women's Transportation Seminar		
WWB	Wastewater Branch		
WWPS	Wastewater pump station		

Appendix B. Contract Status by Contract Packaging Plan (CPP) Number

CPP #	CPP Title	Original Contract Value	Change Orders	Current Contract Value	Incurred	% Exp.	Award Date	Original Completion Date	Revised Completion Date
DB-120	West Oahu/Farrington Hwy Guideway	482,924,000	184,857,886	667,781,886	667,781,886	100%	11/2009	10/2013	12/2018
DB-200	Maintenance & Storage Facility	195,258,000	86,517,032	281,775,032	281,775,032	100%	6/2011	12/2014	7/2016
DB-272	Waipahu Makai Entrance	0	0	0	0	0%	TBD	TBD	TBD
DB-275	Pearl Highlands Garage, Bus Terminal, H2 Ramp	0	0	0	0	0%	TBD	TBD	TBD
DB-320	Kamehameha Hwy Guideway	372,150,000	31,267,029	403,417,029	403,314,423	100%	6/2011	10/2014	12/2018
DB-450	Airport Section Guideway/Stations	874,750,000	115,250,000	990,000,000	949,905,390	96%	9/2016	5/2021	12/2021
DB-550	City Center Guideway and Station (CCGS)	0	0	0	0	0%	TBD	TBD	TBD
DBB-171	West Oahu Station Group	56,088,470	39,545,244	95,633,714	95,633,714	100%	7/2015	3/2018	1/2020
DBB-271	Farrington Highway Station Group	78,999,000	37,328,731	116,327,731	116,327,731	100%	6/2015	1/2018	1/2019
DBB-371	Kamehameha Hwy Station Group	115,805,845	19,515,171	135,321,016	135,321,017	100%	1/2016	5/2019	1/2022
DBB-385	Ramp H2R2	5,203,646	332,250	5,535,896	5,535,896	100%	5/2015	10/2016	11/2017
DBB-505	Airport Section Utilities Construction	27,993,290	726,200	28,719,489	28,719,489	100%	6/2014	2/2016	10/2016
DBB-511	City Center Utilities Relocation Construction	400,000,000	(315,035,924)	84,964,076	84,964,076	100%	5/2018	5/2020	5/2022
DBB-511.1	CCUR III City Center Utilities Relocation - Downtown	217,777,000	21,341,679	239,118,679	48,513,101	20%	1/2022	4/2024	4/2024
DBB-511.2	CCUR IV City Center Utilities Relocation - Dillingham	496,246,697	500,000	496,746,697	93,183,972	19%	8/2022	12/2025	12/2025
DBB-525	Airport Section Guideway 7-Pier	3,973,000	54,843	4,027,843	4,027,843	100%	9/2014	2/2015	4/2015
DBB-602	UHWO Temp PnR and Campus Rd B	8,309,300	672,536	8,981,836	8,981,836	100%	12/2017	7/2019	1/2020
DBB-701	Kamehameha Highway Resurfacing	22,622,703	6,637,016	29,259,719	29,259,718	100%	7/2018	9/2019	10/2022
DBB-701.1	Left Turn Into Kualea Street	5,338,499	0	5,338,499	82,500	2%	8/2021	7/2022	7/2022
DBB-921	WiFi Passenger Vehicles	1,219,858	0	1,219,858	1,002,440	82%	6/2020	9/2022	9/2022
DBOM-920	Core Systems Design Build O/M	543,956,791	161,760,543	705,717,334	601,653,640	85%	11/2011	3/2019	1/2025
DBOM-920.1	Power Quality Monitoring	18,373	0	18,373	14,387	78%	10/2019	10/2019	8/2020
DBOM-920.2	Double Crossover Flangeway Modifications	377,000	0	377,000	370,280	98%	2/2022	5/2022	5/2022
FD-140	West Oahu Station Group	7,789,000	7,023,738	14,812,738	14,810,338	100%	6/2012	11/2016	5/2020
FD-145	Westside Design Closeout	0	0	0	0	0%	TBD	TBD	TBD
FD-240	Farrington Highway Stations Group	9,300,696	8,098,097	17,398,793	17,332,975	100%	1/2011	11/2016	3/2020
FD-340	Kamehameha Hwy Station Group	8,702,592	5,859,135	14,561,727	14,520,926	100%	11/2012	6/2017	9/2022
FD-430	Airport Sect. Guideway/Util	38,840,960	3,381,426	42,222,386	42,222,386	100%	12/2011	8/2013	6/2017
FD-440	Airport Station Group	10,177,365	(117,545)	10,059,820	10,059,820	100%	11/2012	1/2014	7/2015
FD-530	City Center Guideway/Util	43,948,220	39,476,024	83,424,244	73,942,322	89%	7/2012	3/2014	12/2031
FD-550	Dillingham and Kaka'ako Station Group	18,321,918	(5,980,383)	12,341,535	12,341,535	100%	8/2013	9/2014	8/2016
FD-600	PNR Lots Final Design	0	0	0	0	0%	TBD	TBD	TBD
FD-700	Design Services for 138KV Util. Reloc. at KHG	8,766,327	0	8,766,327	6,958,946	79%	8/2018	11/2021	11/2021
FD-701	KH Civil Design	60,000	0	60,000	60,000	100%	1/2018	1/2019	1/2019
MI-900	Fare Collection DFI	10,876,803	1,383,807	12,260,609	10,575,761	86%	3/2016	1/2029	1/2029
MI-930	Elevators & Escalators Install/Maint	43,723,132	10,186,034	53,909,166	46,392,492	86%	7/2013	5/2018	12/2023
MI-940	Core Systems Backup Generators	8,965,000	161,937	9,126,937	9,057,052	99%	12/2019	4/2021	4/2021
MI-950	Static Synchronous Compensation Equipment	0	0	0	0	0%	TBD	TBD	TBD
MM-945	On-Call Construction I	2,349,858	(349,875)	1,999,983	1,999,983	100%	8/2014	7/2019	7/2019
MM-947	On-Call Construction II	7,500,000	0	7,500,000	7,495,425	100%	5/2015	5/2020	5/2020
MM-948	On-Call Construction III	20,000,000	6,000,000	26,000,000	25,876,731	100%	5/2016	5/2023	5/2023
MM-949	On-Call Construction IV	46,000,000	51,938,845	97,938,845	72,510,561	74%	1/2018	11/2024	11/2024

CPP #	CPP Title	Original Contract Value	Change Orders	Current Contract Value	Incurred	% Exp.	Award Date	Original Completion Date	Revised Completion Date
MM-290	Construction Engng & Insp CEI West	54,232,480	38,900,000	93,132,480	92,109,334	99%	1/2014	1/2020	12/2020
MM-595	Construction Engng & Insp CEI East I	63,083,417	(50,372,051)	12,711,366	12,711,366	100%	1/2014	1/2019	1/2016
MM-596	Construction Engng & Insp CEI East II	55,036,130	62,000,000	117,036,130	109,705,479	94%	9/2015	12/2019	6/2022
MM-596.1	Construction Engng & Insp CEI East III	119,377,861	24,562,117	143,939,978	23,024,045	16%	3/2022	12/2026	12/2026
MM-901	Program Mgt Support Consil II	33,376,897	16,359,765	49,736,662	49,736,662	100%	2/2012	3/2015	3/2017
MM-902	Program Mgt Support Consil III	63,522,953	0	63,522,953	60,190,089	95%	1/2017	12/2022	12/2023
MM-905	Gen Engng Consil EIS/PE	0	75,995,982	75,995,982	75,995,982	100%	8/2007	2/2010	2/2011
MM-910	Gen Engng Consil FD-Construct	150,000,000	226,265	150,226,265	150,226,265	100%	6/2011	12/2014	12/2014
MM-913	GEC III General Engineering Consultant	46,143,277	38,585,498	84,728,775	83,706,567	99%	12/2013	4/2019	4/2022
MM-913.1	GEC IV General Engineering Consultant	47,809,670	0	47,809,670	8,087,378	17%	1/2022	4/2027	4/2027
MM-915	HDOT Traffic Mgmt. Consult.	9,000,000	5,010,000	14,010,000	8,985,467	64%	6/2012	6/2017	6/2019
MM-920	HDOT Coordination Consil WOFH	10,800,000	(1,000,000)	9,800,000	9,748,728	100%	6/2011	6/2016	12/2018
MM-921	HDOT Coordination Consil KHG	7,138,390	5,575,227	12,713,617	10,001,606	79%	6/2012	2/2025	2/2025
MM-922	HDOT Coordination Consil. East	17,560,000	(7,631,360)	9,928,640	9,087,912	92%	6/2012	12/2024	12/2024
MM-925	HDOT - WOFH/KHG Imprv Agreements	550,000	5,765,633	6,315,633	3,836,982	61%	10/2010	10/2019	10/2019
MM-930	HDOT State SOA Manager & Consultant	1,272,400	(281,963)	990,437	990,437	100%	2/2012	8/2017	8/2017
MM-940	Kako'o Consultant I	1,000,000	(468,391)	531,609	531,609	100%	3/2022	3/2022	3/2022
MM-941	Kako'o Consultant II	730,796	400,000	1,130,796	591,666	52%	12/2015	1/2018	1/2020
MM-946	On-Call Hazmat Assessment Consultant	12,006,227	1,830,471	13,836,698	10,669,494	77%	2/2018	2/2023	2/2023
MM-950	OCIP Consultant I	1,250,000	0	1,250,000	1,250,000	100%	5/2012	6/2017	5/2017
MM-951	Owner-Controlled Insurance Program	41,000,000	24,140,674	65,140,674	52,002,642	80%	4/2014	4/2020	8/2025
MM-953	OCIP Consultant II	920,000	446,734	1,366,734	908,741	67%	5/2017	5/2020	5/2020
MM-960	Archaeological & Cultural Monitoring	3,698,853	2,463,284	6,162,137	3,061,793	50%	1/2014	1/2019	1/2019
MM-962	Core Systems Support	43,988,989	34,510,891	78,499,880	73,043,807	93%	2/2014	9/2019	5/2023
MM-962.1	Core Systems Support II	26,375,998	0	26,375,998	2,901,305	11%	5/2023	5/2028	5/2028
MM-964	Safety and Security Consultant	32,395,610	4,420,441	36,816,052	27,375,460	74%	4/2014	1/2017	1/2019
MM-970	Fare Collection Consultant	1,178,300	640,621	1,818,921	1,531,359	84%	9/2015	12/2019	12/2019
MM-975	LEED Commissioning Services for MSF	278,630	7,845	286,475	286,475	100%	10/2010	1/2016	8/2017
PA-102	Programmatic Agreement HPC	767,275	(175,947)	591,329	275,087	47%	7/2013	1/2019	1/2019
ART	ART Contracts	2,349,500	0	2,349,500	1,730,997	74%	1/2016	7/2019	7/2019
MM-935	Real Estate Consultant	3,000,000	5,077,665	8,077,665	7,504,910	93%	3/2012	3/2017	3/2017
MM-936	Real Estate Consultant II	13,632,273	7,000,000	20,632,273	14,249,144	69%	9/2016	9/2020	9/2020
MM-937	Real Estate Consultant - Maps/Surv.	4,127,537	194,736	4,322,273	4,233,198	98%	5/2014	5/2017	5/2019
MM-980	Claims & Litigation Support	6,654,873	850,511	7,505,384	2,396,012	32%	N/A	N/A	N/A
MM-981	Complex Real Property Nego. Lit. Sup	600,000	2,241	602,241	599,979	100%	9/2016	9/2018	9/2018
MM-982	On Call Appraiser	4,000,000	(762,168)	3,237,832	799,883	25%	6/2016	12/2022	12/2022
MM-983	Land Court Petition Services	2,136,340	0	2,136,340	157,018	7%	10/2016	10/2019	10/2019
MM-985	On Call Appraisers II	1,261,308	0	1,261,308	354,144	28%	4/2017	4/2022	4/2022
MM-986	Real Estate Legal Services	5,800,000	20,738,163	26,538,163	20,281,614	76%	10/2017	12/2022	12/2022
MM-990	Design Review Consultant	4,027,781	0	4,027,781	1,471,745	37%	3/2018	12/2024	12/2024
MM-991	P3 Financial Legal Services	4,282,333	7,029,283	11,311,616	11,311,616	100%	10/2018	TBD	TBD
TPAR	Transit Property Acquisition and Relocation	550,414	675,680	1,226,093	116,410,199	9494%	12/2011	12/2022	TBD
UTIL	Utility Contracts and Agreements	152,286,870	53,768,699	206,055,569	99,063,004	48%	12/2009	12/2018	6/2018
HART-201	HART Expenses & ODCs	20,157,053	28,800,674	48,957,727	114,102,569	233%	N/A	N/A	N/A
HART-202	Precast Yard Agreement	58,390,568	(25,035,367)	33,355,200	21,859,746	66%	N/A	N/A	N/A

Note: This table includes only FFGA eligible contract amounts. Incurred amounts for Non-Contractual Expenses (i.e. TPAR transactions, debt financing costs, and City/HART contract packages) are tracked in the below table and are also included in the total incurred amount in the Project Costs by SCC – Level 2 table in Section 2.13.

**Non-Contractual Expenses**  
(data as of December 31, 2023)

CPP #	CPP Title	Incurred
TPAR	Transit Property Acquisition and Relocation	116,410,199
CCH-100	HART/CITY CCH	14,925,228
CCH-101	HART/ City Dept of BFS	0
CCH-102	HART/ City DDC Land Division	173,182
CCH-107	HART/ City Corporation Counsel (COR)	3,088,688
CCH-108	HART / Board of Water Supply (BWS)	928,325
HART-200	HART - Labor	140,301,772
HART-201	HART Expenses & ODCs	114,102,569
OTHER	Debt Financing Costs	202,489,184
<b>TOTAL</b>		<b>592,419,147</b>

Source: Project Controls.

**Appendix C. Executed Agreements**

While these parcels may be accessible at this time for construction, further documentation may also be required to complete the acquisition.

Executed Inter-Governmental Agreements					
Agency	Agreements	Target	Section	Construction Right of Entry (CROE) Obtained	Notes/Remarks
<b>CITY AGREEMENTS</b>					
BFS (205A)	Jurisdictional transfer from DFM to HART of Kamehameha Hwy/Makalapa Manor		Airport	Yes	Jurisdictional Transfer from BFS Letter dated 8/26/11.
DPR - Dept. of Parks & Recreation (119)	Construction consent to construct for MSF drainage		WOFH	Yes	
BFS/DFM (437C)	Jurisdictional Transfer (Awa Triangle, N. Nimitz & Awa St.)		City Center		Jurisdictional transfer completed July 9, 2018.
<b>STATE AGREEMENTS</b>					
DLNR/C&C Wastewater Div. (437B)	Construction Right of Entry		City Center	Yes	Construction ROE obtained from DLNR 10/21/17. Subdivision submitted with DPP 1/1/18.
UH	Master Agreement is not needed as the ROE for right to access and construct will be executed separately by each campus.		WOFH, KHG, City Center	Will be executed by each campus	Construction is not impacted as the ROE for right to access and construct will be executed by each campus.
UH	Pre-Construction Right of Entry and Amendment		WOFH, KHG, City Center	Yes	
UH - West O'ahu (UHWO) (125)	Construction Right of Entry for Station, Temporary Park & Ride, and Amendment for Construction of Road B		WOFH	Yes	
UH - Leeward Community College (LCC) (122)	Construction Right of Entry for Guideway		WOFH	Yes	
UH - LCC (122)	Construction Right of Entry for Station		WOFH	Yes	
UH - Urban Gardens (201A)	Construction Right of Entry		KHG	Yes	
UH - Honolulu Community College (424A)	Construction Right of Entry - Microtunneling		City Center	Yes	
UH - Honolulu Community College (424A)	Construction Right of Entry (CROE) - CCUR IV Dillingham Utility Work		City Center	Yes	
DLNR (124)	Kapolei Construction Right of Entry for overhead guideway and for park and ride facility		WOFH	Yes	CROE has been granted once a year by letter. Working on permanent Easement with DLNR. Currently with DPP for subdivision.
DLNR (320)	Keehi Lagoon Construction Right of Entry		Airport	Yes	
DOE - Waipahu H.S. (117, 118)	Master/Construction Agreement		WOFH	Yes	
DOE/DLNR for Waipahu H.S. (118)	Construction Right of Entry		WOFH	Yes	Executed by DLNR with DOE concurrence.
Aloha Stadium/DAGS (207)	MOU for guideway & station		KHG	Yes	
Aloha Stadium/DAGS	Construction Right of Entry for guideway		KHG	Yes	

Executed Inter-Governmental Agreements					
Agency	Agreements	Target	Section	Construction Right of Entry (CROE) Obtained	Notes/Remarks
Aloha Stadium/DAGS	Construction Right of Entry for station park and ride		KHG	Yes	
HDOT(H) – Dept. of Transportation Highways (100)	Master Agreement for HDOT Highways for WOFH		WOFH	Yes	
HDOT(H) and (A) – Dept. of Transportation Highways & Airports	Master Agreement for HDOT Highways and Airports, for KHG, Airport and City Center Sections		KHG, Airport, City Center	Yes	
HDOT(H)	JU&O Sub-agreement		WOFH	Yes	
HDOT(H)	JU&O Sub-agreement		KHG	Yes	
HDOT(H)	JU&O Sub-agreement		Airport	Yes	
HDOT (A) - Dept. of Transportation Airports	Airport Special Provisions for Right of Entry		Airport	Yes	
HDOT(A)	JU&O Sub-agreement for Airport Division parcels		Airport	Yes	
HDOT(A) (301A)	Easement document for Airport Division parcel (Main guideway easement)		Airport	Yes	Ongoing intra-agency coordination. Construction is not impacted as the Special Provisions and the JU&O for right to access and construct is executed.
HDOT(H) (100,100-A, 304, 400-A, 400-B)	JU&O Sub-agreement		City Center	Yes	
DHHL - Dept. of Hawaiian Home Lands (Exchange w/ Varona Village) (115A)	MOA, License/ROE from DHHL, City Council Resolution		WOFH, MSF	Yes	DLNR approves withdraw from GEO 571 7/14/17. DFM accepts road widening and now City jurisdiction.
OCCC - Dept. of Public Safety, Oahu Community Correctional Center (400A)	MOU		City Center	Yes	
OCCC/DLNR	Construction Right of Entry		City Center	Yes	
DLNR/OCCC	Letter of Responsibility from City-DFM/Road		City Center	Yes	
DFM (423A)	Work Permit (Kapalama Stream for Street, Bridge, and Guideway Improvements)		City Center	Yes	DFM/DLM granted entry.
HCDL (444A, 450, 463B, E-5-B, 475)	Pre-construction Right of Entry		City Center	Yes, effective upon request	Verbal approval granted by the HCDL Board in 6/2016.
<b>FEDERAL AGREEMENTS</b>					
U.S. Navy (116A)	Grant of Easements for Maintenance & Storage Facility (MSF)/Rail Operations Center (ROC) offsite drainage and sewer easements		WOFH	Yes	Per Letter #N62478-12-RP00011 dated 6/28/12 confirming easement from Navy.
U.S. Navy (300)	Licenses/Construction Right of Entry		WOFH, KHG, Airport	Yes	6/22/15 – License was extended to 2025. All utility work needs to be completed by then.
U.S. Navy	Easement Agreements		WOFH, KHG, Airport	Yes	Grant of Easement executed. Grant of Easement 8/22/16.
U.S. Navy	Pearl Harbor Station Acquisition of Fee Transfer		Airport	Yes	Quitclaim deed executed 2/25/16.

Executed Inter-Governmental Agreements					
Agency	Agreements	Target	Section	Construction Right of Entry (CROE) Obtained	Notes/Remarks
USPS (301)	Honolulu Processing Center acquisition		Airport	Yes	Acquisition completed in regular system. Need to process through Land Court to complete process. Funds already paid. USPS Land Court share to complete process is in escrow.
U.S. Gov't/GSA/Federal Courthouse (443C)	Master Agreement, Security & Landscape License Agreement, Temporary Construction Easements		City Center		Executed on 8/15/2022.
<b>OTHER AGREEMENTS</b>					
D.R. Horton	Construction Right of Entry - D.R. Horton & HECO		WOFH	Yes	Executed 5/11/2018.
D.R. Horton (101B)	License Agreement for Interim Park and Ride		WOFH	Yes	The License Agreement and accompanying fee agreement are complete. Effective date 6/1/2023.

Appendix D. Utility Agreements

Utility Agreements Status Matrix											
Utility Owner	Status	WOFH		KHG		Airport		City Center			
		ESA	UCA	ESA	UCA	UCA	COMBINED ESA	UCA			
AT&T (Corporation)	Executed	05/11/11	12/20/11	05/18/12	Including with ESA	Not Required	12/26/13	05/03/17			
	NTP	05/12/11	12/21/11								
	Amd 01	07/01/11	HRS Ch. 104	11/22/16							
AT&T Corp. (Public Sector)	Executed			12/26/13		08/27/18	12/26/13				
	NTP										
Chevron	Executed	12/04/09		11/04/11							
	NTP	12/22/09		11/15/11							
	Amd 01	07/01/11									
Hawaiian Telcom	Executed	05/20/10	11/17/14	05/10/12	12/31/14	05/28/15	09/27/13	04/06/17			
	NTP	06/14/10	11/18/14								
	Amd 01	07/01/11		04/13/15		05/11/17	11/19/18	09/20/19			
	Amd 02	05/10/12					01/11/23				
HECO		Design Services	Construction Services	Design Services	Construction Services	Design Services	Construction Services	Design Services	Construction Services		
	Executed	11/20/13	11/29/13	11/20/13	11/29/13	11/20/13		11/25/13			
	NTP	11/20/13	11/29/13	11/20/13	11/29/13	11/20/13		11/25/13			
	Executed					05/16/18					
	Change Order 01		06/30/17	11/13/19	02/22/18	01/06/22		11/23/22			
	Change Order 02		02/22/18		11/13/19						
	Memorandums of Understanding	08/07/14 – Construction Drawings									
		05/01/15 – Access									
		05/15/15 – Derrick Truck									
		06/23/15 – Master Agreement									
		06/09/15 – MSF Advanced Construction									
		09/16/15 – Right of Entry									
		10/12/15 – Clearance (West)				11/10/15 – Dillingham Blvd Materials					
		07/13/16 – KHG Vertical Clearance									
		Power Quality MOU – The HART and HECO “technical” people continue to discuss proposed revisions based on the new data from Trial Running and Revenue Service. The attorney will then re-engage to negotiate specific language disagreements.									
08/16/18 – Airport Clearance Agreement											
05/15/19 – Vehicle Storage MOU											
08/13/19 – Airport Energization MOU											
Charter Communications/ Spectrum Oceanic LLC	Executed	12/08/09	12/21/11	01/09/12	06/02/14	12/19/14	04/03/13	09/22/16			
	NTP	12/22/09					04/04/13	09/30/16			
	Amd 01	07/01/11	02/27/14		HRS Ch. 104	07/06/18		10/20/20			
	Amd 02	10/07/13	HRS Ch. 104								
Pacific Lightnet/ Wavocom	Executed	04/28/10	03/12/12	02/15/12							
	NTP	04/29/10	03/13/12	02/16/12							
	Amd 01	07/01/11	HRS Ch. 104								
Sandwich Isle Communications	Executed	05/20/10		04/20/12							
	NTP	06/08/10									
	Amd 01	07/01/11									
Hawaii Gas	Executed	12/18/09	06/30/11	06/01/12	04/14/14	08/19/14	09/27/13	05/08/15			
	NTP	12/22/09	07/12/11			08/20/14		05/11/15			
	Amd 01	07/01/11	10/17/14	02/28/23	08/28/14	08/31/17		10/24/17			
	Amd 02		05/09/16		10/23/15	11/03/19		01/03/22			
	Amd 03				Hawaii Gas to finalize the design for the Aiea block valve and regulator station relocation. Waiting for the Final design and cost estimate us forthcoming.						



Utility Agreements Status Matrix								
Utility Owner	Status	WOFH		KHG		Airport		City Center
		ESA	UCA	ESA	UCA	UCA	COMBINED ESA	UCA
					Still waiting for final design and estimate.			
	Executed							02/02/23
Lumen /TW Telecom	Executed	12/02/09		02/14/12	Oceanic to relocate for TW Telecom		10/11/12	Oceanic to relocate for TW Telecom
	NTP	12/22/09		02/16/12				
	Amd 01	07/01/11						
Lumen	New Contract						Working on Lumen’s contract documents.	Working on Lumen’s contract documents.
Servpac	New Contract						Execution of Agreement – January 2024.	Execution of Agreement – January 2024.
Tesoro	Executed			02/15/12	HRS Ch. 104		08/27/13	
	NTP			02/16/12		09/12/13	09/03/13	
	Amd 01					09/12/14		
	Amd 02					05/13/15		
	Amd 03							
<b>Legend</b>		= Action this month = Not applicable	COR = Corporation Counsel ESA = Engineering Services Agreement	UCA = Utility Construction Agreement UFCRA = Combined Engineering and Construction Utility Agreement				

Appendix E. Project Map



This is a map of the entire route of the Project from East Kapolei, the westernmost station, to the Ala Moana Transit Center. The map also identifies the Kāākaukukui (Civic Center) Station, which is the terminus under the 2022 Recovery Plan. HART fully intends to complete the remaining guideway and stations to the Ala Moana Transit Center in a separate phase of the Project, subject to available funding outside of the FTA Capital Investment Grant program funds.