

HONOLULU RAIL TRANSIT PROJECT



November 2014* MONTHLY PROGRESS REPORT

* **Data Dates:** Cost, Schedule 10/31; Other Activities 11/30

HART

HONOLULU AUTHORITY for RAPID TRANSPORTATION

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This report and all subsidiary reports are prepared for the Federal Transit Administration (FTA). This report should not be relied upon by any party, except the FTA or HART, in accordance with the purposes as described below.

For projects funded through the FTA Full Funding Grant Agreements (FFGAs) program, the FTA and its Project Management Oversight Contractor (PMOC) use a risk-based assessment process to review and validate a project sponsor's budget and schedule. This risk-based assessment process is a tool for analyzing project development and management. Moreover, the assessment process is iterative in nature; 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, including any specific measures a sponsor may take to mitigate the risks to project costs, budget, and schedule, or the strategy a sponsor may develop for project execution. Therefore, the information in the monthly reports will change from month to month, based on relevant factors for the month and/or previous months.

REPORT FORMAT AND FOCUS

This report 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 the grantee's technical capability and capacity to execute a project efficiently and effectively, and hence, whether the grantee continues to be ready to receive federal funds for further project development.

This report covers the project and quality management activities on the Honolulu Rail Transit Project managed by the Honolulu Authority for Rapid Transportation (HART) with HART as the grantee and partially financed by the FTA FFGA.

ON THE COVER:

Left: West O'ahu Farrington Highway Guideway along Farrington Highway looking Diamond Head.
Upper right: West O'ahu Farrington Highway Guideway along Farrington Highway looking Waianae.
Lower right: Rail Operations Center (aka Maintenance and Storage Facility) site.

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***HIGHLIGHT OF THE MONTH: LAGOON DRIVE STATION**
 Serving the Lagoon Drive Surrounding Business District, Mapunapuna and Outlying Residential Areas



- Station Features:**
- ADA Pedestrian Access
 - Bicycle Parking
 - Elevators and Stairs
 - Kiss-and-Ride
 - TheBus – Local services to Salt Lake and Mapunapuna
 - TheHandi-Van Pick-up/Drop-off
 - Platform Type: Side
 - Planned # of Entrances: 2

*Each month a different station will be highlighted with architectural renderings and key information.

1 EXECUTIVE SUMMARY

KEY ACTIVITIES THIS MONTH

The Honolulu rail system's first driverless train vehicles are slated to arrive on O'ahu for testing in 2016. The company that is manufacturing the system's train cars, Ansaldo Honolulu, is forming the aluminum extrusions for the cars' chassis at its plant in Italy.

By the middle of 2015, the car shells and the flooring assembly will be added, and toward the end of the year, the final vehicle assembly will take place at Ansaldo's plant in Pittsburg, California.

By mid-2016, Ansaldo Honolulu will deliver the first cars to HART's Rail Operations Center in Waipahu, and the testing of the vehicles will begin.



HART has ordered 80 train cars for the Honolulu rail transit system. The trains will include air conditioning and free Wi-Fi.



HART Board

Ford Fuchigami will be returning to the Honolulu Authority for Rapid Transportation (HART) board of directors in December. Fuchigami – who earlier had served as the interim director of the state Department of Transportation and served as an ex-officio, voting member of the HART board of directors – was most recently with the city Department of Enterprise Services. Fuchigami was appointed by Gov.-elect David Ige to return to the state Department of Transportation as director, and will start in this new role when Ige is inaugurated on Dec. 1.

Transit-Oriented Development

In November, the city Department of Planning and Permitting (DPP) held a community meeting on proposed zoning and land use regulation changes in the Waipahu Neighborhood Transit-Oriented Development (TOD) Plan Station Area.

TOD is a type of community development that includes a mixture of housing, office, retail and other amenities integrated into a walkable neighborhood and located near rail stations and quality public transportation.

The Waipahu TOD Plan was the first to be adopted by the Honolulu City Council in April 2014. Based on the plan's recommendations, the city is initiating zone changes and a TOD special district around the West Loch and Waipahu Transit Center rail stations.

Among the proposed changes, properties will be zoned for mixed use, and the TOD Special District will require new development standards for site layout and ground floor building design. Height limits will generally be the same, except for certain areas along key or primary streets where bonus heights will be allowed in exchange for community benefits, such as public plazas and affordable housing. In some cases, the new zoning districts will also legalize current uses that do not conform to existing zoning regulations.

Overall, these changes will encourage walking and active areas by locating housing, jobs, shops and services within close proximity, while improving the pedestrian experience. A final plan will be submitted to the Planning Commission for a public hearing and then to the City Council for additional hearings and action.

PROJECT OVERVIEW

Cost:

Project Costs Summary Through October 31, 2014		
	Current Budget (\$M)	Incurred To Date (\$M)
Project Budget	\$4,416.9	\$1,252.3
Project Contingency	\$531.8	\$0.4
Finance Charges	\$173.1	\$0.0
TOTAL	\$5,121.7	\$1,252.6

Schedule:

Project Progress Through October 31, 2014				
	Actual		Early Plan	Late Plan
Overall Project Progress	29.0%		44.0%	35.7%
Overall Construction Progress	20.8%		35.8%	28.0%
Overall Design Progress	80.1%		93.5%	86.2%
Overall Utilities Progress	12.0%		31.7%	13.8%

Overview:

Core Systems Contract (CSC)

The Core Systems Contract has rebaselined the contract schedule to incorporate revised construction access dates, interim opening and final opening dates that were transmitted in May 2014. The CSC contractor is progressing according to plan. Key system manufacturing and qualification testing activities have started. (See Section 4.1.A for details)

Elevators and Escalators Manufacture-Install-Maintain Contract

The Elevator/Escalator contract is on schedule and draft equipment drawings have been submitted. (See Section 4.1.B for details)

West O’ahu Farrington Highway (WOFH) Contract

Progress is lagging the planned schedule. Kiewit and HART are working to mitigate the impacts to the critical path activities, including the Leeward Community College (LCC) construction Right-of-Entry agreement with the University of Hawai’i (UH). A schedule revision is being evaluated. (See Section 4.2.A for details)

Maintenance and Storage Facility (MSF) Contract

The MSF contract is close to schedule with over half of the work complete. It is forecasted that the project will be completed on time. (See Section 4.2.D for details)

Kamehameha Highway Guideway (KHG) Contract

The accepted rebaselined schedule dated October 28, 2013 is no longer valid, and HART has requested a recovery schedule showing how KIWC would achieve the currently agreed upon substantial completion date of Sept. 16, 2016. KIWC initially proposed a list of mitigation measures that would allow recovery, but has since notified HART that the substantial completion date is no longer achievable. They have provided a draft schedule which is under review. (See Section 4.3.A for details)

Airport Section Utilities Construction Contract

The Airport Utilities contract has been awarded and the NTP for construction was issued on Oct. 6, 2014. Potholing is tentatively scheduled to begin mid-December 2014 with actual utility relocations to begin January/February 2015. (See Section 4.4.B for details)

Airport Seven Piers Construction Contract

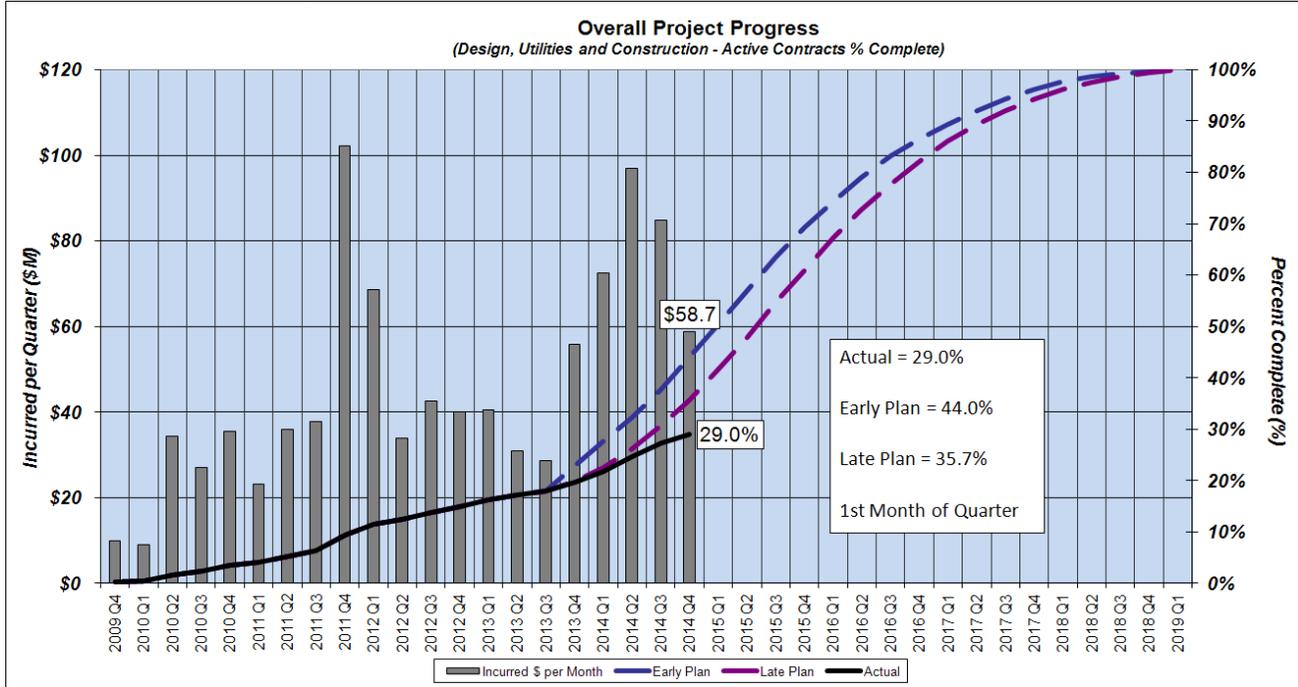
The Airport Seven Piers Construction contract was awarded and the NTP for construction was issued on Sept. 18, 2014. Construction is tentatively scheduled to begin early/mid-January 2015. (See Section 4.4.C for details)

2 OVERALL PROJECT PROGRESS AND FINANCIALS

2.1 Project Progress (data as of Oct. 31, 2014)

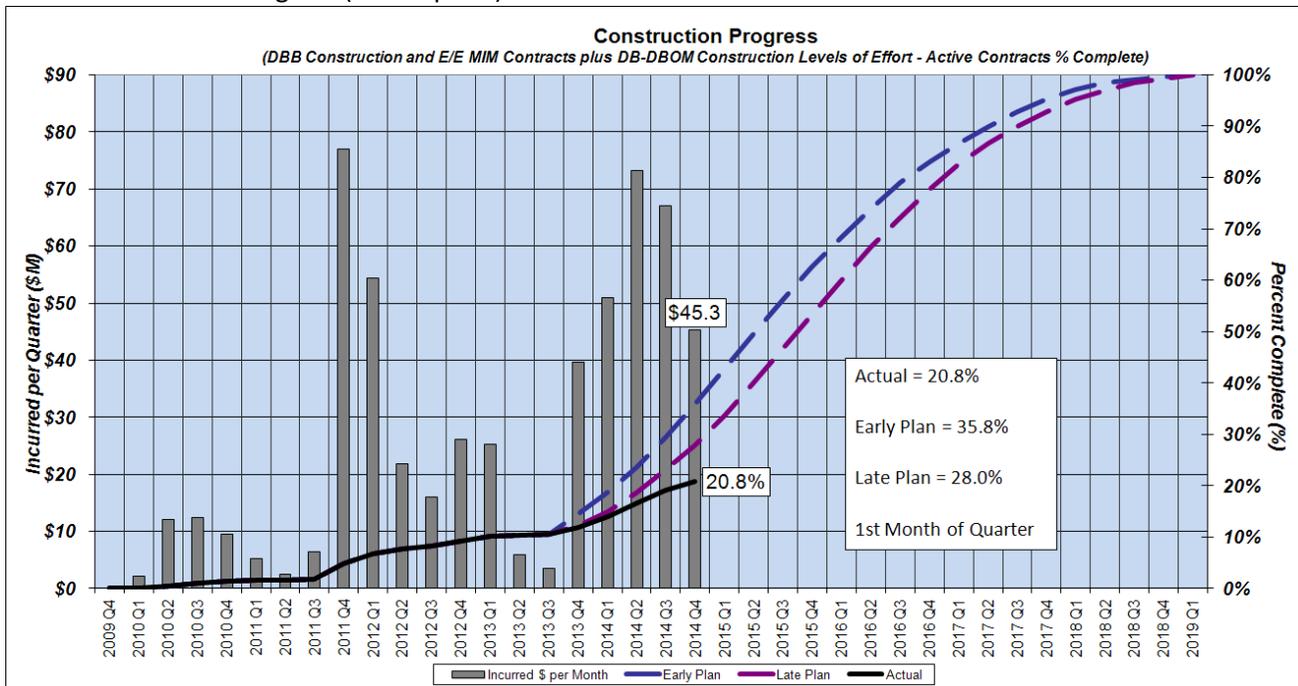
- Note:
- Actual = Actual cost of work performed, based on invoiced-to-date amount.
 - Early Plan = Earliest dates activities can begin and finish, based on logic and durations used in the schedule.
 - Late Plan = Latest dates activities can begin and finish and not have an impact on completion date,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

Figure 1. Overall Project Progress (% Complete)



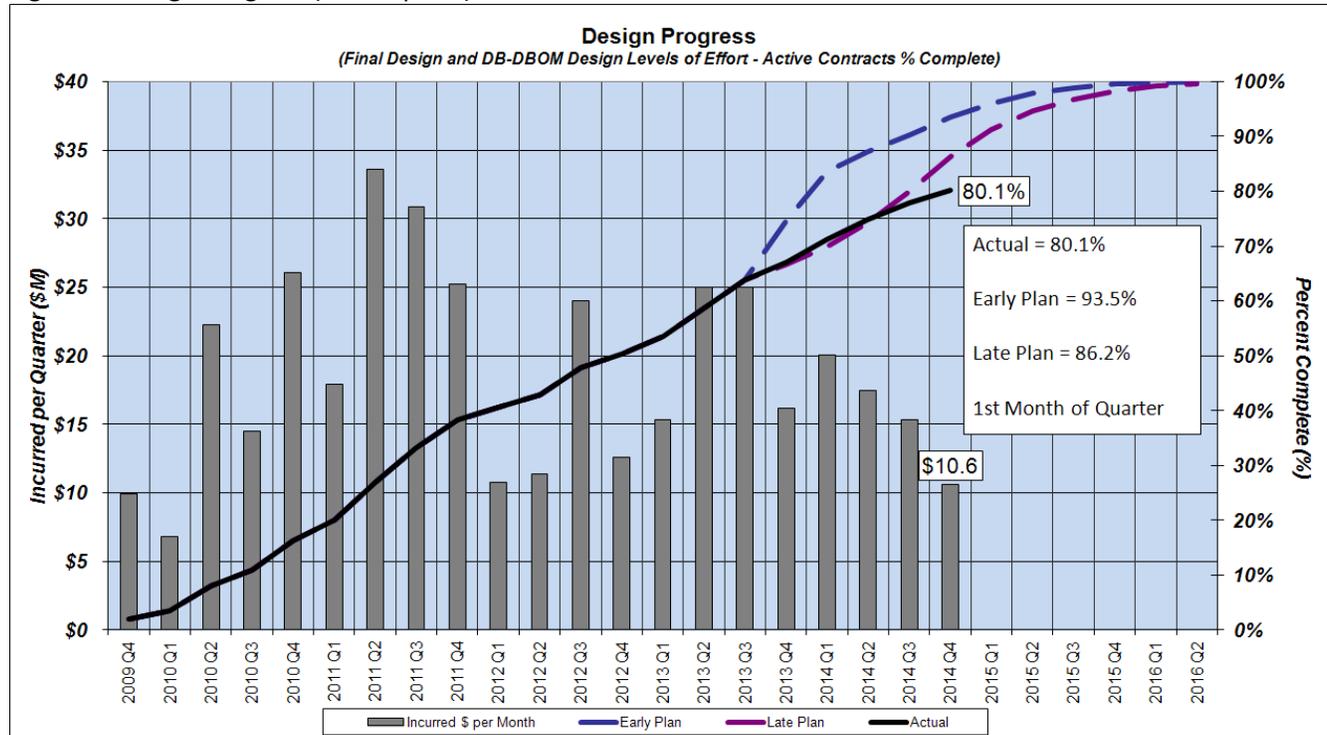
At present “overall” project progress is based on the weighted value progress of the individual construction and design contracts (Design-Build [DB], Design-Bid-Build [DBB], Design-Build-Operate-Maintain [DBOM], Elevator/Escalator Manufacture-Install-Test-Maintain [MIM], Final Design [FD] and DB-DBOM design levels of effort), not including City or non-design consultant labor. Overall Project Progress reflects all project elements as budgeted.

Figure 2. Construction Progress (% Complete)



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, not including consultant construction engineering and inspection (CE&I) services.

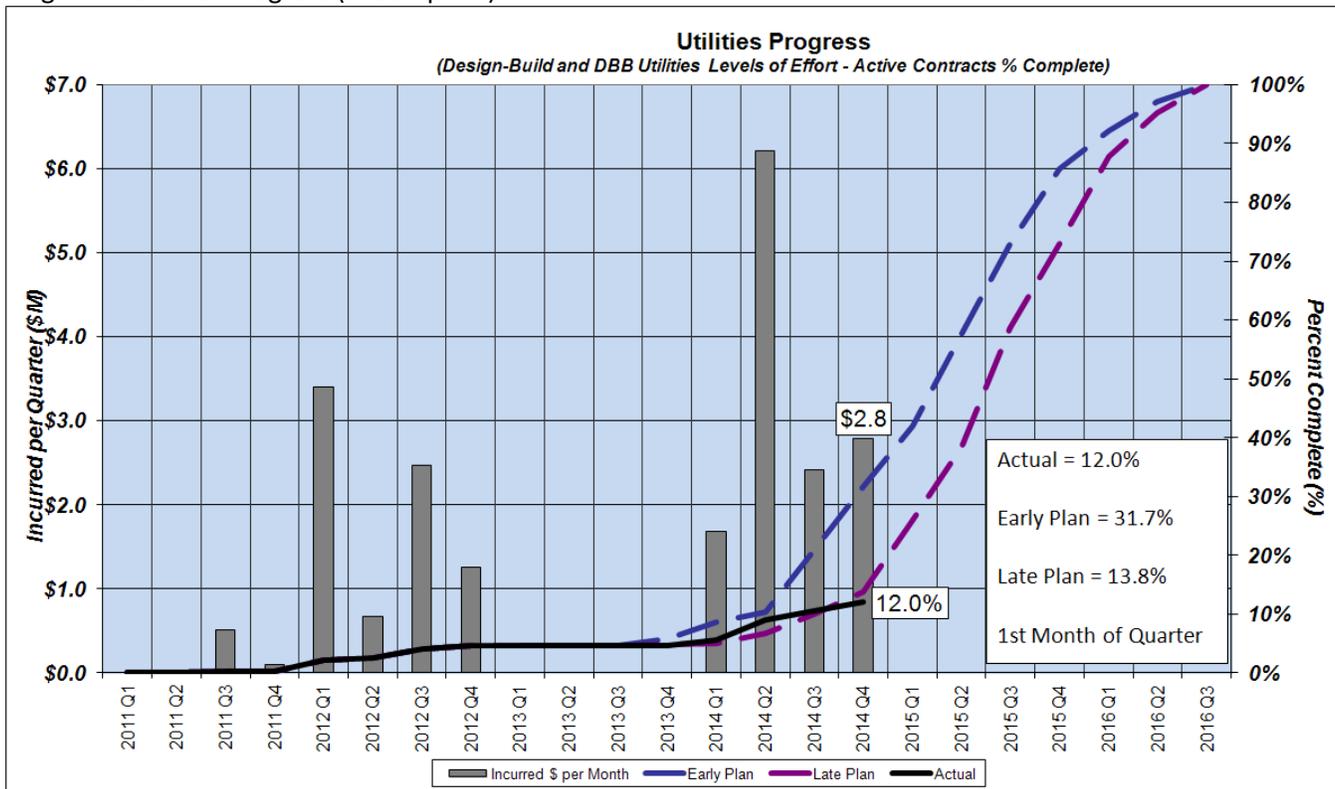
Figure 3. Design Progress (% Complete)*



*Current figure reflects adjustments to components of the budget baselines.

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, not including City or non-design consultant labor.

Figure 4. Utilities Progress (% Complete)



Overall utilities progress is based on the weighted average progress of the DB and DBB utilities levels of effort.

2.2 Project Budget (data as of Oct. 31, 2014)

- FFGA Project Budget = **\$5,121.7M**
 - Current Project Budget - \$4,416.9M
 - Current Project Contingency - \$531.8M
 - Project Finance Charges - \$173.1M
- Total Incurred Cost = **\$1,252.6M** (28.4% of current project budget)

*Total Incurred Cost = \$1,252.6M
(previous report = \$1,170.0M)*

2.3 Project Contingency (data as of Oct. 31, 2014)

Note: Contingency management and cost contingency details, including a breakdown of Project contingency drawdowns, are discussed in further detail in Appendix B.

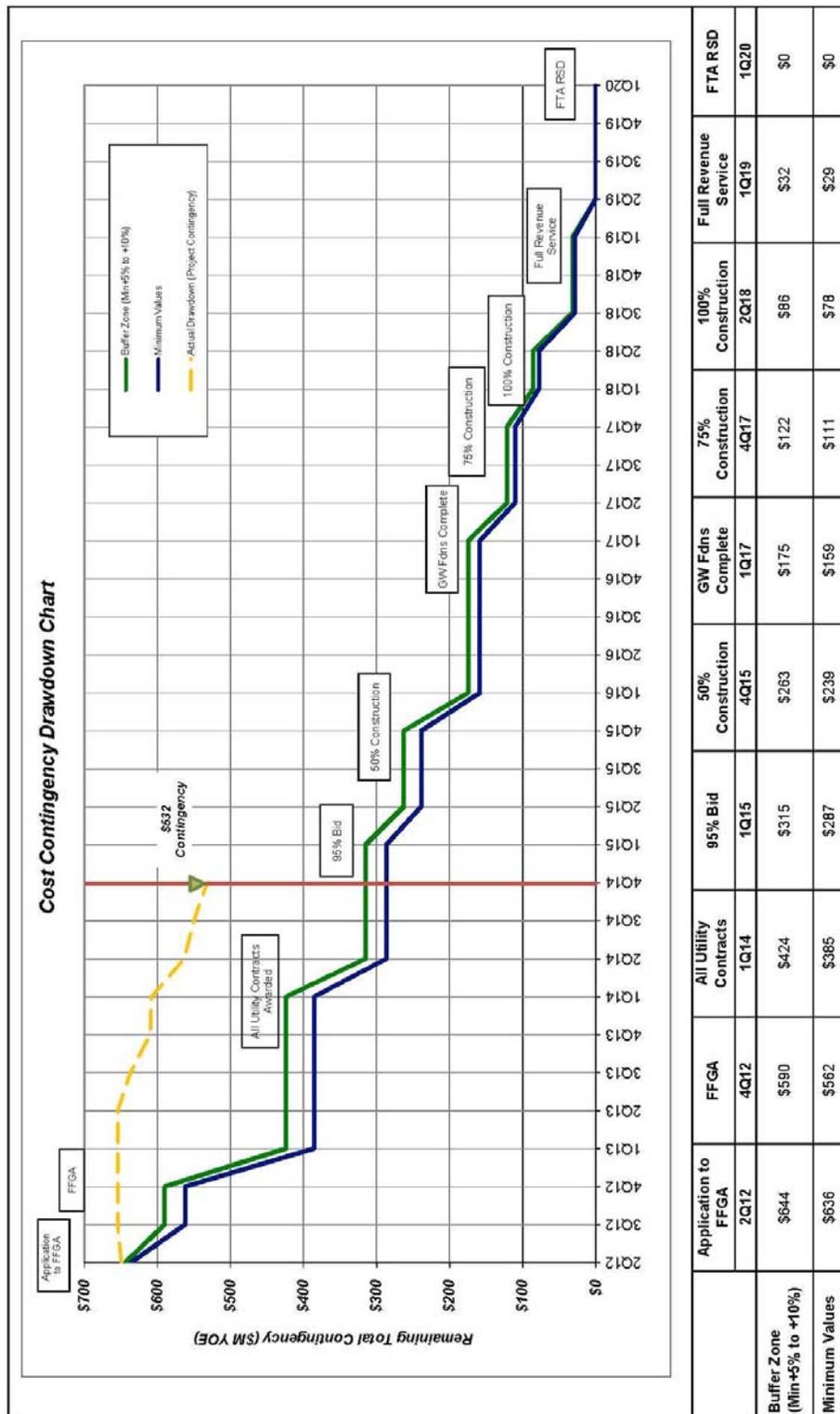
- Current Project Contingency Balance = **\$531.8M**
 - Contingency drawdown to date - \$111.8M (17.4% of baseline project contingency budget)
 - \$18.3M contingency drawdown during October 2014. Please see appendix B for more details.

*Current Contingency Balance = \$531.8M
(previous report = \$550.1M)*

Figure 5. Project Contingency Budget

Project Contingency Budget		
Contingency	SCC Code	Budget (\$M)
Unallocated Contingency	90.01	\$101.9
Allocated Contingency	90.02	\$540.1
Allowances	90.03	\$1.6
Baseline FFGA Project Contingency Budget	90.01 - 90.03	\$643.6
Contingency drawdown through August 2014 Report	90.01 - 90.03	(\$79.9)
Contingency drawdown September 2014 Report	90.01 - 90.03	(\$4.3)
Contingency drawdown October 2014 Report	90.01 - 90.03	(\$9.3)
Contingency drawdown November 2014 Report	90.01 - 90.03	(\$18.3)
Contingency drawdown to date	90.01 - 90.03	(\$111.8)
Current FFGA Project Contingency	90.01 - 90.03	\$531.8

Figure 6. Draft Cost Contingency Drawdown Chart



Note: Contingency management and cost contingency details, including a breakdown of Project contingency drawdowns, are discussed in further detail in Appendix B.

2.4 Project Funding (data as of Oct. 31, 2014)

Figure 7. Planned vs. Received Project Funding

Planned vs. Received Project Funding				
Funding Source	Pre-FFGA Project ¹	FFGA Project Period		Total Project
	2007 - 2009 Actuals Received	Planned ² (\$YOE M)	2009 - Present Actuals Received	2007 - Present Actuals Received
	[A]		[B]	[C] = A + B
Beginning Project Cash Balance ³	\$0	\$298	\$298	\$298
Interest Income on Cash Balance	\$7	\$3	\$2	\$9
FTA Section 5309 New Starts Revenue ⁴	\$0	\$1,550	\$312	\$312
FTA Section 5307 Formula Funds	\$0	\$210	\$0	\$0
ARRA Funds	\$0	\$4	\$4	\$4
Net General Excise Tax (GET) Surcharge revenues FY2010-FY2023	\$378	\$3,291	\$968	\$1,346
Total	\$385	\$5,356	\$1,584	\$1,969

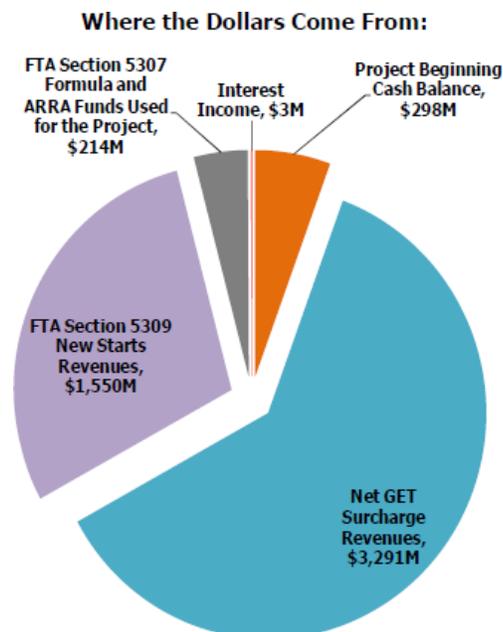
¹ GET and Interest Income received during Pre-Preliminary Engineering (pre-PE) phase prior to entry into PE

² FFGA Financial Plan, Table A-1 *Capital Plan Cash Flows*.

³ Beginning Project Cash Balance at Entry into Preliminary Engineering (PE) on October 16, 2009 (the FFGA Project start date) = GET, investment and miscellaneous income minus pre-PE expenditures.

⁴ New Starts Funds Obligated Through Federal Fiscal Year 2014 Totals \$806.3 Million

Figure 8. Project Funding Sources (YOE \$M)



Source: FFGA Financial Plan, p. 2-1

- General Excise Tax (GET) Surcharge
 - \$968M = amount received since the Project’s entry into FTA’s Preliminary Engineering phase of project development.
 - \$1,009M = Projected Net GET Surcharge Revenue for FYs 2010-2Q 2015, as stated in FFGA Financial Plan (Table A-1 *Capital Plan Cash Flows*)
 - \$48.5M = GET surcharge received in October 2014

- Full Funding Grant Agreement (FFGA)
 - \$56.4 = New Starts drawdown received in October 2014.

Total Cash Received Since PE = \$1,584M
 (previous report = \$1,479M)

GET Received Since PE = \$968M
 (previous report = \$920M)

GET Received Since 2007 = \$1,346M
 (previous report = \$1,298M)

Figure 9. New Starts Drawdown by Federal Fiscal Year (as of Oct. 31, 2014)

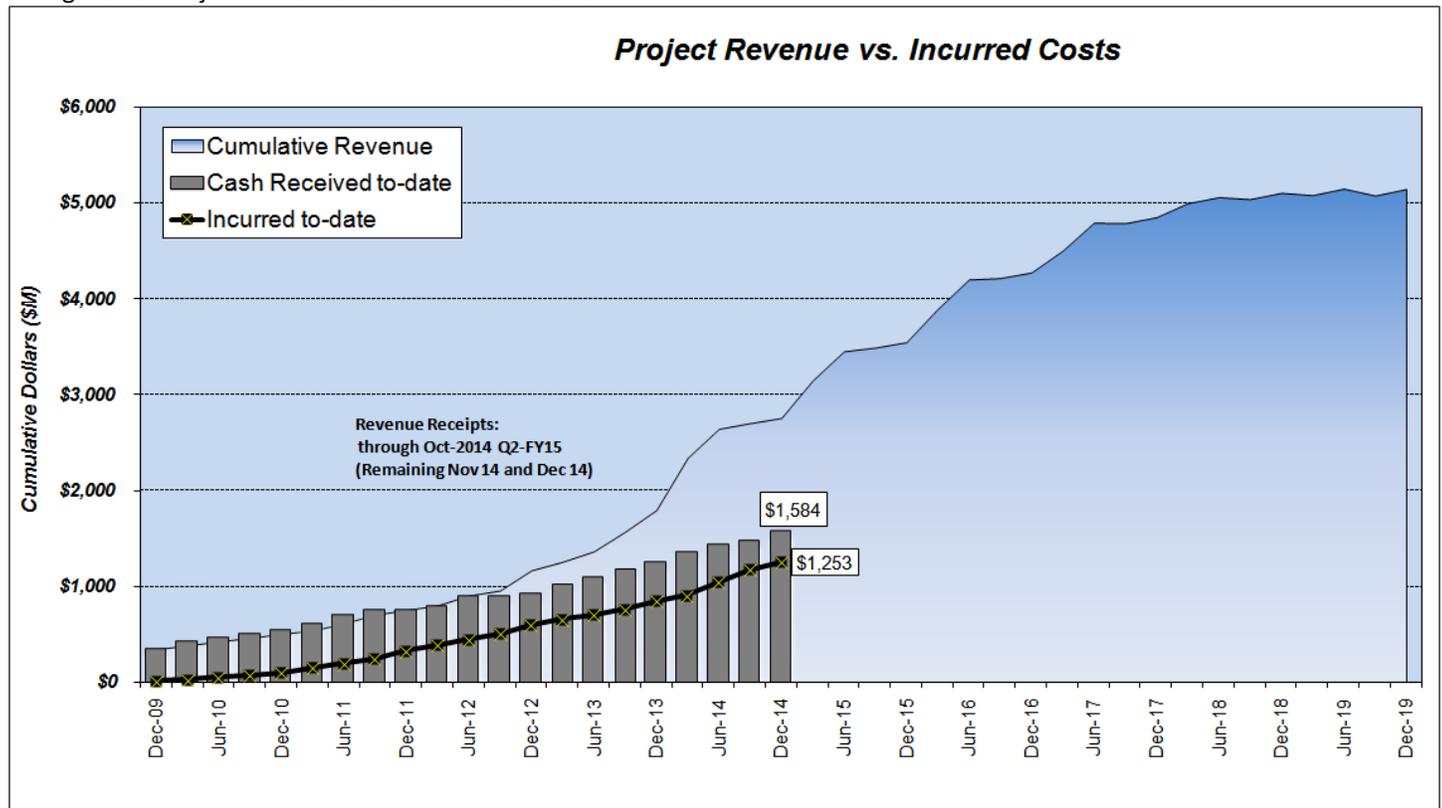
New Starts Grant Information by Federal Fiscal Year				
Federal Fiscal Year Allocation	Obligated Amounts	Actual Drawdown Amounts to Date	Available Balance	FFGA Base Case Cash flow
2008	\$15,190,000	\$15,190,000	\$0	
2009	\$19,800,000	\$19,800,000	\$0	
2010	\$30,000,000	\$30,000,000	\$0	
2011	\$55,000,000	\$55,000,000	\$0	\$20,607,242
2012	\$200,000,000	\$192,322,417	\$7,677,583	\$99,382,758
2013	\$236,277,358	\$0	\$236,277,358	\$258,280,277
2014	\$250,000,000	\$0	\$250,000,000	\$441,719,724
2015 (pending)	\$250,000,000	\$0	\$250,000,000	\$250,000,000
2016 (pending)	\$250,000,000	\$0	\$250,000,000	\$250,000,000
2017 (pending)	\$243,732,642	\$0	\$243,732,642	\$230,010,000
Total	\$1,550,000,000	\$312,312,417	\$1,237,687,583	\$1,550,000,000

2.5 Project Revenue and Costs

(data as of Oct. 31, 2014)

Ending Cash Balance 10/31/14 = \$427.6M
(previous report = \$355.4M)

Figure 10. Project Revenue versus Incurred Costs



Planned Funding levels as per the June 2012 FFGA Finance Plan
Data date for Revenue & Incurred Cost = Oct. 31, 2014

Figure 11. Cash Balance Summary

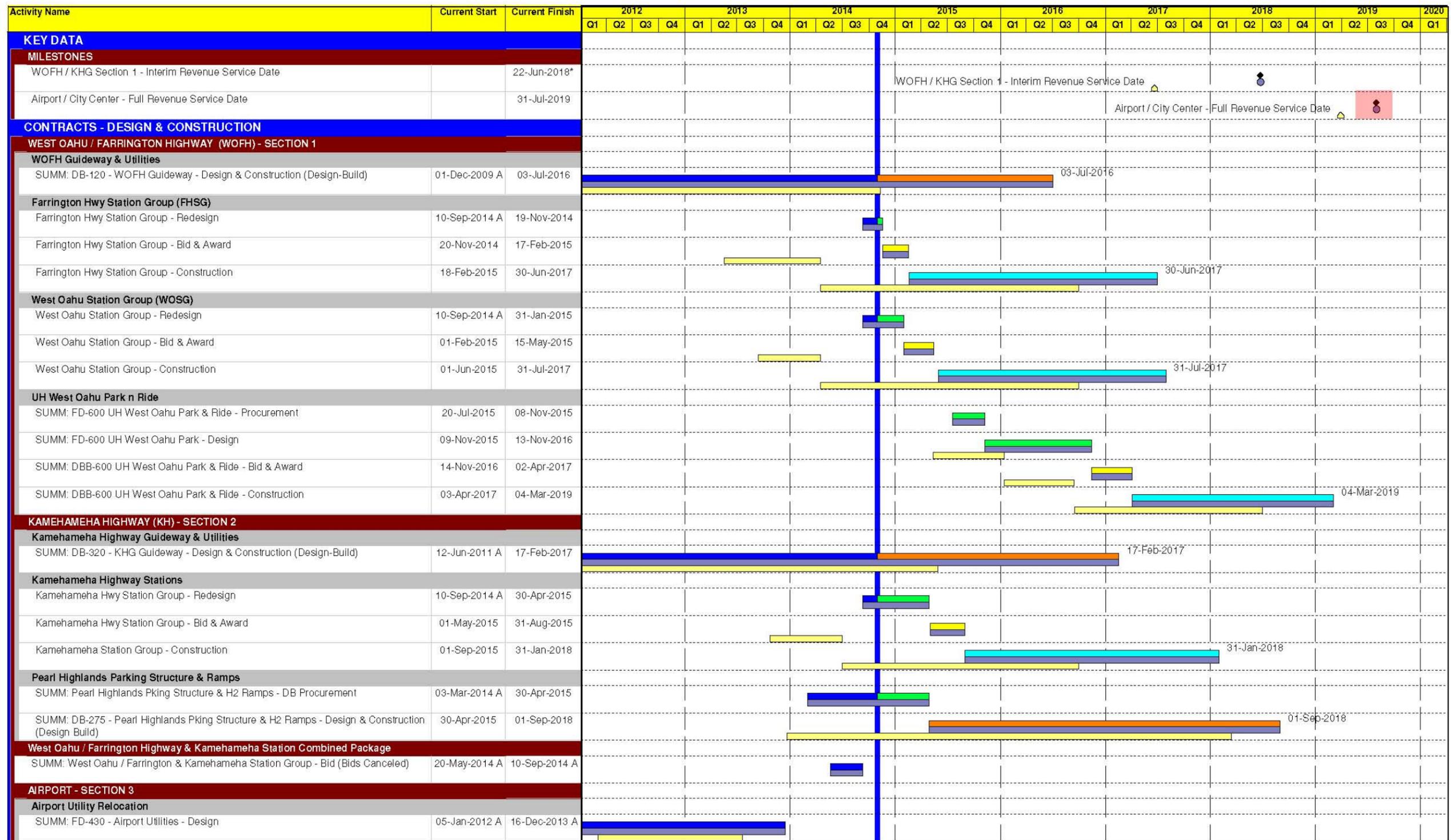
OCTOBER 2014 CASH BALANCE SUMMARY		
	OCTOBER	Fiscal YTD Cumulative
Beginning Cash Balance	355,429,962	441,011,319
Expenditures:		
Operating Expenditures	(940,571)	(3,963,321)
Capital Expenditures	(31,789,635)	(163,890,608)
Expenditures Total:	(32,730,206)	(167,853,929)
Receipts:		
GET Surcharge	48,487,038	97,944,371
FTA Drawdown	56,352,391	56,352,391
Interest	17,285	85,626
Other (rental, refunds, copy fees, etc.)	39,549	56,239
Receipts Total:	104,896,263	154,438,628
Ending Cash Balance 10/31/14	427,596,018	427,596,018

Note: Project Cost Reports can be found in Appendix C.

3 SCHEDULE

Figure 12. H RTP Master Project Schedule Summary (MPSS)

The MPSS is stasuted against the FFGA Baseline MPS. The baseline and actual/planned durations of each contract are displayed for comparison.



- FFGA Baseline
- Construction
- Sept 2014 Updt
- Actual Work
- Design Build
- Design
- Bid/Award
- FFGA Baseline Milestone
- Sept 2014 Updt Milestone
- Milestone

Honolulu Rail Transit Project
 October 2014 Update
 As of: 31-Oct-2014

MPS Summary
 Design & Construction Contracts

Printed: 02-Dec-2014 15:35

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3 SCHEDULE (continued)

- Despite the AIS delay, HART is implementing mitigation measures to maintain a 3Q 2019 full revenue service date (RSD). The FFGA commitment for full revenue service is January 2020.
 - The 2019 RSD is the milestone date reflected in the FFGA Master Project Schedule (MPS) and is consistent with all FFGA request submittals.
- HART continues to closely monitor and manage the MPS and all key milestones.
 - The West Side Station Group contract has been broken out into smaller station group contracts.

Figure 13. Awarded Contracts

Awarded Contracts		
Contract No.	Contract Name	Contractor
DB-120	West O’ahu/Farrington Highway (WOFH) Guideway	Kiewit Infrastructure West Company
DB-200	Maintenance and Storage Facility (MSF)	Kiewit/Kobayashi Joint Venture
DB-320	Kamehameha Highway Guideway (KHG)	Kiewit Infrastructure West Company
DBB-505	Airport Section Utilities Construction	Nan, Inc.
DBB-525	Airport Section Guideway Seven (7) Pier Construction	HDCC/CJA JV
DBOM-920	Core Systems Contract (CSC)	Ansaldo Honolulu JV
MI-930	Elevators and Escalators	Schindler Elevator Corporation
MM-946	On-Call Hazardous Materials (HazMat) Removal Contractor	CH2M HILL
FD-140	West O’ahu Station Group (WOSG) Final Design and Support	URS Corporation
FD-240	Farrington Highway Station Group (FHSG) Final Design 1	HDR Engineering, Inc.
FD-240 (2)	Farrington Highway Station Group (FHSG) Final Design and Support 2	URS Corporation
FD-340	Kamehameha Highway Station Group (KHSG) Final Design (includes H2/R2 Ramp) and Support	Anil Verma Associates, Inc.
FD-430	Airport Section Guideway and Utilities Final Design and Support	AECOM Technical Services, Inc.
FD-440	Airport Station Group (ASG) Final Design and Support	AECOM Technical Services, Inc.
FD-530	City Center Section Guideway and Utilities Final Design and Support	AECOM Technical Services, Inc.
FD-550	Dillingham/Kaka’ako Station Groups (DKSG) Final Design and Support	Perkins+Will
MM-290	Construction Engineering & Inspection West Side Sections	PGH Wong Engineering, Inc.
MM-595	Construction Engineering & Inspection East Side Sections	URS Corporation
MM-900	Program Management Support Consultant (PMSC-1)	InfraConsult LLC
MM-901	Program Management Support Consultant - 2 (PMSC-2)	InfraConsult LLC
MM-905	General Engineering Consultant (EIS/PE) Services (GEC-1)	Parsons Brinckerhoff
MM-910	General Engineering Consultant II (GEC-2) (Final Design and Construction)	Parsons Brinckerhoff
MM-913	General Engineering Consultant III (GEC-3)	CH2M HILL
MM-962	Core Systems Support [Recompete]	Lea+Elliott, Inc.
MM-935	Real Estate Consultant	Paragon Partners Ltd.
MM-937	Real Estate Mapping and Surveying	R.M. Towill Corporation
MM-940	Kāko’o Consultant	Pacific Legacy, Inc.
MM-945	On-Call Construction Contractor	Royal Construction Company
MM-960	Archaeological and Cultural Monitoring	Cultural Surveys Hawai’i
MM-950	Owner-Controlled Insurance Program (OCIP) Consultant	Marsh USA, Inc.
MM-951	Owner-Controlled Insurance Program (OCIP) Brokerage Services	Aon Risk Services, Inc., of Hawaii
MM-964	Safety / Security Support	Lawson & Associates, Inc.
MM-975	LEED Commissioning Services for the MSF	Enovity, Inc.
MM-915	HDOT Traffic Management Coordination Consultant	ICX Transportation Group, Inc.
MM-920	HDOT Design Coordination Consultant – WOFH Guideway Section	AECOM Technical Services, Inc.
MM-921	HDOT Design Coordination Consultant – KHG Section	AECOM Technical Services, Inc.
MM-922	HDOT Design Coordination Consultant–Airport and City Center Guideway Sections	SSFM International, Inc.

= New Contracts

Figure 14. Remaining Contracts

Remaining Contracts		
Contract No.	Contract Name	Procurement Method
ART	Project-wide Art in Transit - 22 separate contract awards	RFQ
DB-275	Pearl Highlands Parking Structure/Bus Transit Center	RFP
DBB-171	West O’ahu Station Group Construction	RFB
DBB-271	Farrington Highway Station Group Construction	RFB
DBB-371	Kamehameha Highway Station Group Construction	RFB
DBB-520	Airport and City Center Guideway Construction / City Center Utilities Construction	-
DBB-470	Airport Station Group Construction	-
DBB-580	Dillingham / Kaka’ako Station Group Construction	-
DBB-600	UH West O’ahu Park-and-Ride and Ho’opili Station Finishes Construction	-
FD-600	UH West O’ahu Park-and-Ride and Ho’opili Station Finishes Final Design and Support	-

ISSUES:

- The DB-275 Pearl Highlands Parking Structure, Transit Center and Ramp, and DBB-520 Airport and City Center Guideway Construction/City Center Utilities solicitations are currently active; however the solicitation schedules for both are on hold. The Priority-Listed Offerors and potential bidders, respectively, were advised of the hold on schedule in an addendum to the solicitation documents. HART’s determination moving forward is forthcoming.
- The contract packages for the East Corridor Guideway and Stations are currently under analysis and evaluation.
- The DBB-271 Farrington Highway Station Group Construction solicitation is anticipated to be issued in December 2014.

Note: Procurement Tracking Reports can be found in Appendix D.

4 CONTRACT STATUS

4.1 System-wide

A. Core Systems Contract (CSC)

Contract No.: DBOM-920

DBOM Contractor: Ansaldo Honolulu Joint Venture (AHJV)

Contract Start Date: January 2012

Contract Substantial Completion: March 2019

Project Description: Providing rail passenger vehicles, automated train control system, traction electrification system, communication systems, fare vending system, passenger platform screen gates (PSGs), and operation and maintenance of the Project.



COST INFORMATION:

Original Contract: \$573,782,793

Incurred-to-Date: \$93,845,951

Committed¹: \$603,126,283

Incurred in Oct.: \$9,360,493

Authorized²: \$587,211,271 (97.4%)

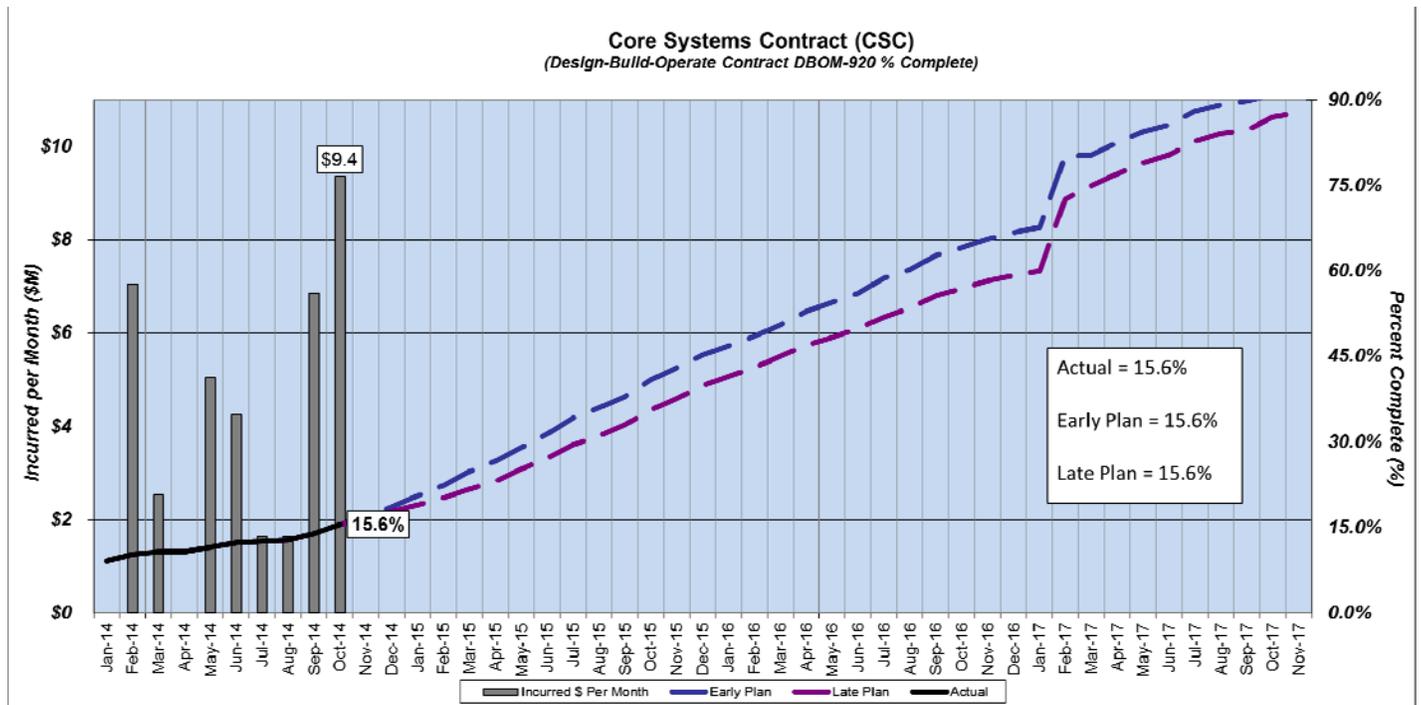
¹Commitment = Original contract value (excluding contingency and \$823.6M O&M budget) + executed Change Orders

²Total Authorized for Expenditure (AFE) = NTP dollar values + executed Change Orders

Disadvantaged Business Enterprise (DBE) Participation	
Actual DBE Participation:	\$109,023
DBE % Attained:	0.025%

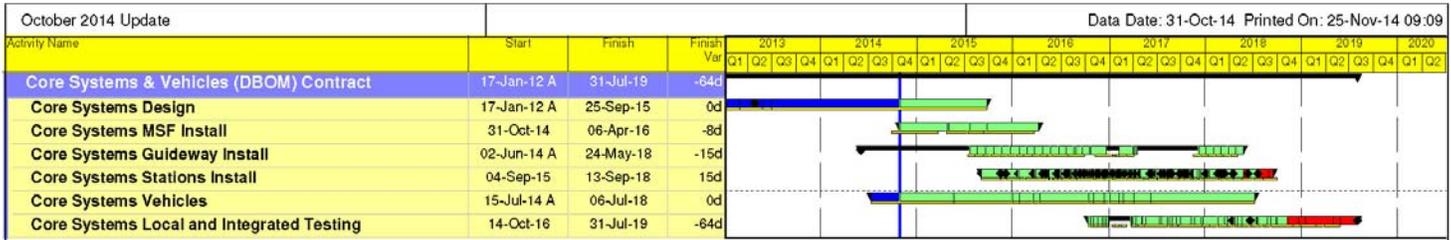
October Notices to Proceed
None

October Change Orders	
Change No.	Amount (\$)
CO 00009	\$145,000
Cumulative to Date	\$29,343,490



- This chart has been updated to reflect scheduled milestone payments associated with the recently accepted rebaselined CSC schedule.
- The design for CSC is progressing according to plan. Key system manufacturing and qualification testing activities have started.

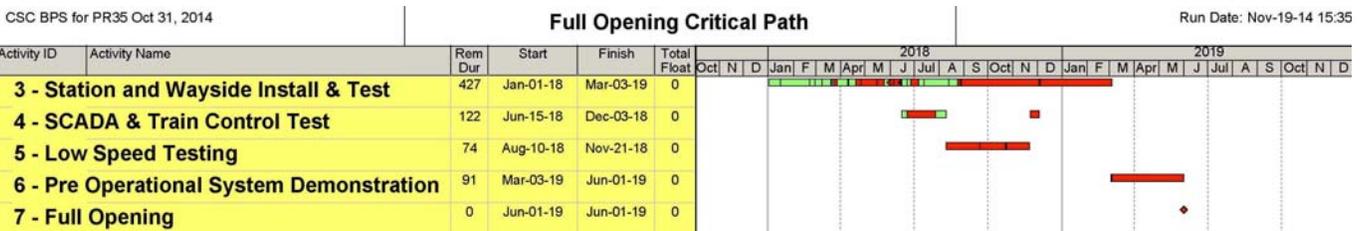
SCHEDULE:



	Interim Design	Final Design
Passenger Vehicles	71%	--
Communications	100%	14%
ATC/SCADA	93%	78%
TES	100%	69%
Fire Detection	100%	41%
Other	85%	6%

- Design is progressing according to plan. Certain subsystems are beginning to start design verification testing in preparation for manufacturing activities.
- Passenger Vehicles continue to progress Interim Design with an expected completion by the end of the year.
- Passenger Vehicle Carshell has begun the 1st Vehicle Carshell assembly as planned in November.

CRITICAL PATH SUMMARY:



- All design activities associated with the start of OSB/OCC installation and testing are progressing according to plan.
- All Vehicle activities both with regard to subsystem design and Carshell assembly are progressing according to plan.

WORK PROGRESS:

Activities this Month:

- Project-Wide Percent Complete: 15.6%
- Passenger Vehicle Percent Complete: 14.4%
- Performed Factory Acceptance Tests (FAT) for communications equipment, ATC Equipment (Waipahu Station) and MOW Vehicles.
- Conducted Design Verification tests for Traction Electrification System (TES) equipment.

Look Ahead:

- Continue passenger vehicle and other systems Interim and Final Design review.
- Start FAT Activities for TES and Vehicle ATC Equipment.

KEY ISSUES:

- Finalize design options for shielding of communications equipment from Electromagnetic Interference (EMI) due to the proximity of the AM radio tower near the Middle Street Station.
- Construction Interface coordination at MSF; Core Systems is continuing efforts to proactively provide timely design inputs and minimize impacts to construction.
- Finalize Interface design inputs for Farrington Highway, West O’ahu and Kamehameha Highway station groups.
- Vehicle delivery schedule; Ansaldo has begun Carshell assembly of the first vehicle, and continued focus is required to complete the subsystem design, qualification testing and manufacturing to support the start of Final Assembly in 2015.
- Completion of design milestones to support fixed facilities construction.

QUALITY MANAGEMENT:

- Testing and Oversight Activities:

Design Verifications & System Testing		
Subsystem	Test Completed	Date Completed
Communications	Pre-shipment Inspection and tests for Integrated Network Management System (INMS), Network Time Server (NTS), Communications Transmission System (CTS), Partial Test for Station Local Area Network (SLAN)	10/16/14 – 10/23/14
Traction Power	Design Verification for Power Rectifier Transformer	10/23/14 – 10/24/14
Train Control	Train Control Equipment for Waipahu Station	10/20/14 – 10/24/14

Passenger Vehicle - Oversight		
Facility	Activity	Date Completed
Reggio Calabria, Italy	Pre-inspection of Carshell Assembly facility, drawings, procedures, inspection hold points, jigs etc.	11/17/14 – 11/21/14
Pittsburgh, CA	Vehicle Final Assembly	Not Started

CSC NCR Log		
Total NCRs Issued To Date	CLOSED	OPEN
13	13	0

B. Elevators and Escalators Manufacture-Install-Maintain (MIM)

Contract No.: MI-930
Contractor: Schindler Elevator Corporation
Contract Start Date: August 2013
Contract Substantial Completion: May 2018

Project Description: Furnish / install / test / maintain all elevator and escalator equipment located at the elevated stations.



COST INFORMATION:

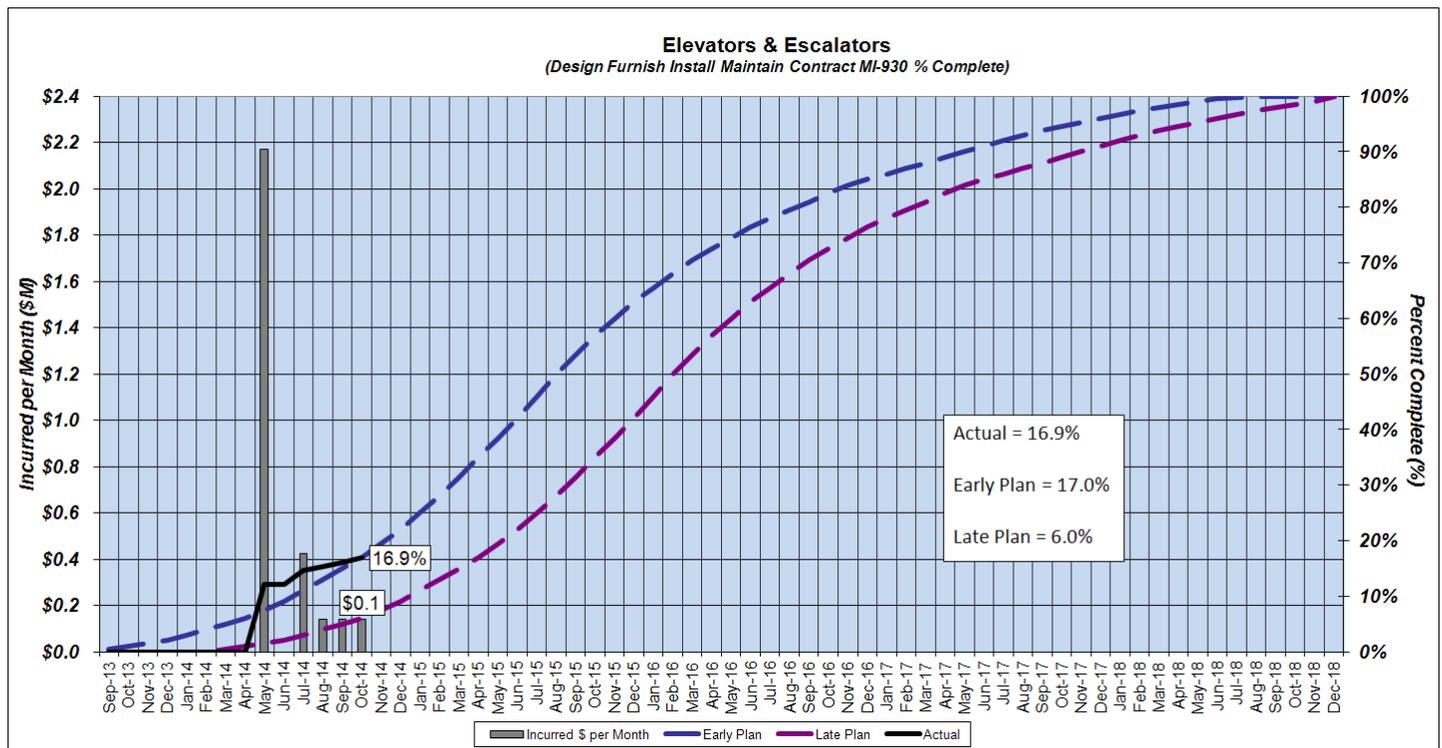
Original Contract: \$50,982,714	Incurred-to-Date: \$3,016,698
Committed ¹ : \$50,982,714	Incurred in Oct.: \$140,824
Authorized ² : \$5,442,108 (10.7%)	

¹Commitment = Original contract value (not including contingency) with Design Allowance + executed Change Orders
²Total Authorized for Expenditure (AFE) = NTP dollar values + executed Change Orders

Disadvantaged Business Enterprise (DBE) Participation	
Actual DBE Participation:	\$0
DBE % Attained:	0%

October Notices to Proceed
None

October Change Orders	
Change No.	Amount (\$)
None	---
Cumulative to Date	\$0



SCHEDULE:

October 2014 Update					Data Date: 31-Oct-14, Printed On: 24-Nov-14																		
Activity Name	Start	Finish	Finish Var	2014		2015				2016				2017				2018				2019	
				Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1
W. Oahu/Farrington Highway (WOFH) - Section 1	27-Jan-16	08-Dec-16	0d																				
W. Oahu Station Group	12-Jul-16	08-Dec-16	0d																				
Construction - W. Oahu Station Group	12-Jul-16	08-Dec-16	0d																				
East Kapolei Station	12-Jul-16	25-Oct-16	0d																				
UH West Oahu Station	23-Aug-16	08-Dec-16	0d																				
Ho'opili Station	15-Aug-16	02-Dec-16	0d																				
Farrington Highway Station Group	27-Jan-16	25-Oct-16	0d																				
Construction - Farrington Highway Station Group	27-Jan-16	25-Oct-16	0d																				
West Loch Station	12-Jul-16	25-Oct-16	0d																				
Waipahu Transit Station	27-Jan-16	21-Mar-16	0d																				
Kamehameha Highway (KH) - Section 2	16-Sep-16	09-May-17	-58d																				
Kamehameha Highway Station Group	16-Sep-16	09-May-17	-58d																				
Construction - Kamehameha Highway Station Group	16-Sep-16	09-May-17	-58d																				
Pearl Highlands - Station	16-Sep-16	06-Feb-17	-59d																				
Pearl Ridge Station	20-Jan-17	09-May-17	-58d																				
Aloha Stadium Station	14-Dec-16	03-Apr-17	-58d																				
Airport - Section 3	01-Dec-16	12-Dec-17	-5d																				
Airport Station Group	01-Dec-16	12-Dec-17	-5d																				
Construction - Airport Station Group	01-Dec-16	12-Dec-17	-5d																				
Pearl Harbor Station	01-Dec-16	20-Mar-17	0d																				
HNL Airport Station	20-Jun-17	04-Oct-17	0d																				
Lagoon Drive Station	02-Dec-16	21-Mar-17	0d																				
Middle Street Station	25-Aug-17	12-Dec-17	-5d																				
City Center (CC) - Section 4	20-Dec-16	09-Apr-18	-13d																				
Dillingham Station Group	20-Dec-16	08-Dec-17	0d																				
Construction - Dillingham Station Group	20-Dec-16	08-Dec-17	0d																				
Kalihi Station	20-Dec-16	07-Apr-17	0d																				
Kapalama Station	24-Apr-17	08-Aug-17	0d																				
Iwilei Station	10-Feb-17	30-May-17	0d																				
Chinatown Station	23-Aug-17	08-Dec-17	0d																				
Kaka'ako Station Group	06-Jun-17	09-Apr-18	-13d																				
Construction - Kaka'ako Station Group	06-Jun-17	09-Apr-18	-13d																				
Downtown Station	06-Jun-17	21-Sep-17	0d																				
Civic Center Station	20-Jul-17	02-Nov-17	0d																				
Kaka'ako Station	14-Aug-17	30-Nov-17	0d																				
Ala Moana Center Station	19-Dec-17	09-Apr-18	-13d																				

CRITICAL PATH ISSUES:

- Resolution of design interface issues with other contractors.
- Coordination with station contractors on construction interface milestones.

WORK PROGRESS:

Activities this Month:

- Design is 10% complete.
- Design continued for the West Loch and Waipahu Transit Center Stations.
- Interface meetings between design teams and Core Systems Contractor.
- All draft equipment drawings for the 21 stations have been submitted for review and acceptance and are in review.

Look Ahead:

- Design continues for the West Loch and Waipahu Transit Center Stations and is scheduled to be completed in December.
- Design will begin on the Leeward Community College station, the three WOSG stations, and the three KHSG stations.
- Elevator & Escalator team will continue meeting with the Core Systems Contractor and final designers to discuss and resolve interface issues.

KEY ISSUES:

- Final Product acceptance to be completed in December.

4.2 Section I – West O’ahu/Farrington Highway: East Kapolei to Pearl Highlands

A. West O’ahu/Farrington Highway Guideway (WOFH)

Contract No.: DB-120

DB Contractor: Kiewit Infrastructure West Company (KIWC)

Contract Start Date: December 2009

Contract Substantial Completion: July 2016

Project Description: Design and construction of 6.8 miles of rail alignment, starting at the East Kapolei station and ending at the Pearl Highlands station.



COST INFORMATION:

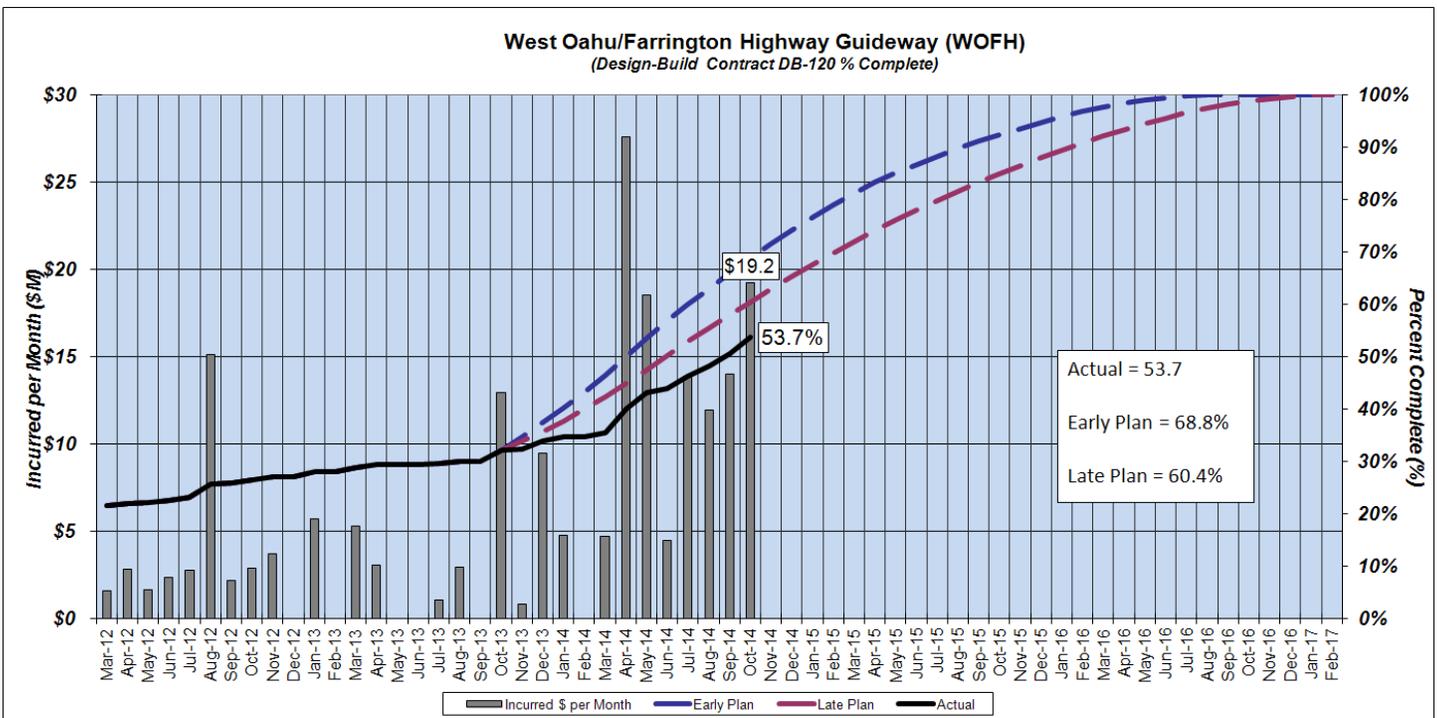
<u>Original Contract:</u> \$482,924,000	<u>Incurred-to-Date:</u> \$322,704,037
<u>Committed¹:</u> \$601,322,382	<u>Incurred in Oct.:</u> \$19,207,909
<u>Authorized²:</u> \$601,322,382 (100%)	

¹Commitment = Original contract value (not including contingency) + executed Change Orders
²Total Authorized for Expenditure (AFE) = NTP dollar values + executed Change Orders

Disadvantaged Business Enterprise (DBE) Participation	
Actual DBE Participation:	\$3,635,375
DBE % Attained:	0.75%

October Notices to Proceed
None

October Change Orders	
Change No.	Amount (\$)
CCO 00047	\$4,400,000
Cumulative to Date	\$118,398,382



Current figure reflects adjustments to components of the budget baselines.

- Billings have been issued and processed for Pay Applications #56, #57 and #58. Pay Application #56 was issued for Station Loads Milestones, and Pay Applications #57 and #58 were issued for the months of August and September 2014 respectively. Billings for Pay Application #59, Request for payment for the month of October 2014, has been submitted by KIWC and is currently being processed by HART.

SCHEDULE:

- Progress is lagging the planned schedule. HART and Kiewit are working to mitigate impacts to critical path activities. A revised schedule is being evaluated.

October 2014 Update				Data Date: 31-Oct-14, Printed On: 24-Nov-14 11:06													
Activity Name	Start	Finish	Finish Variance	2014				2015				2016					
				Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
Total	08-Mar-12 A	03-Oct-16	-5d														
West Guideways & Structures	08-Mar-12 A	03-Oct-16	-5d														
W. Oahu/Farrington Highway (WOFH) - Section 1	08-Mar-12 A	03-Oct-16	-5d														
W. Oahu/Farrington Highway Guideway	08-Mar-12 A	03-Oct-16	-5d														
Kiewit WOFH Summary	08-Mar-12 A	03-Oct-16	-5d														
Foundations	08-Mar-12 A	23-Oct-15	-10d														
Drilled Shafts	23-Apr-12 A	21-Oct-15	-35d														
Columns	21-May-12 A	23-Oct-15	-10d														
At Grade	08-Mar-12 A	04-May-15	0d														
Guideway	04-Jun-14 A	15-Aug-16	0d														
Precast Segment Erection	04-Jun-14 A	15-Aug-16	0d														
Balanced Cantilever Segments	31-Oct-14	23-Sep-15	0d														
Trackwork	29-Jan-15	03-Oct-16	-5d														
Direct Fixation Trackwork	29-Jan-15	02-Sep-16	-3d														
Third Rail	10-Aug-15	03-Oct-16	-5d														

CRITICAL PATH ISSUES:

- HART continues to work to resolve construction right of entry for UH LCC campus, as well as associated approval of new campus portable buildings and site plans.
- Production rates for precast span erection are lagging planned rate. KIWC is developing mitigation plans.
- KIWC implemented re-sequencing of segment erection work in October 2014. This was done in order to alleviate potential negative float on the project schedule. The re-sequencing will be incorporated into the next schedule submittal.

WORK PROGRESS:

WOFH Construction Status as of 11/28/14				
Structure Element	Total to Date	Planned to Date*	Total Qty	% Complete
Shafts	176	198	266	66.2%
Columns	136	122	266	51.1%
Segment Casting	1,736	2,078	3,163	54.9%
Spans Stressed	51	83	266	19.2%

* The planned values are based on WOFH REVISED SCHEDULE REV C 2014.04.08 (with data date of October 25, 2013), which was Accepted as Noted on May 9, 2014.

Activities this Month:

Earned Value: 55.6% [(Total Achieved to October 2014 (322 million + Projected November 2014 Period (12 million))/Total Contract Including Executed Change Orders (601 million)]. Planned Value: 62.8%

Shaft/Column

- Performed drilled shaft construction, drilling, and concrete placement for a total of 4 drilled shafts. Column construction was performed, placing concrete for a total of 1 column.

Guideway Segment Erection

- Eastbound heading segments were erected for Spans 91 through Span 96. Westbound heading segments were erected for Spans 49 through Spans 45.

Utility Relocation Progress

- Addressed utility conflicts along the alignment relocating traffic signals, streetlights, and existing water/sewer lines. HECO relocating power lines. Third-party companies relocating overhead fiber-optic lines.

Precast Yard Progress

- Precast Yard performed daily segment and sound wall casting,

Look Ahead:

Design Progress

- HART and KIWC are working together to complete final design. To date 98 out of 124 design submittals have been issued for construction.

Shaft/Column

- Continue with drilled shaft and column concrete placement. Monitor drill shaft repair procedures.

Guideway Segment Erection

- Segment span erection will continue with both eastbound and westbound truss headings, continuing from Span 45 westbound towards East Kapolei Station, and from Span 97 eastbound towards Farrington Highway.

Utility Relocation

- Work with HECO to resolve remaining electrical relocation conflicts. Relocate wet utility (sewer/water) and dry utility (traffic signal, street lighting and fiber optics) along Farrington Highway.

Balanced Cantilever Structure

- KIWC will continue work adjacent to the H1 Freeway to begin cast in place segments at Piers 253 and 254.

averaging 12 segments per day and up to 62 segments per week.

KIWC/Third-Party Coordination

- Coordination continued with HECO and KIWC to resolve conflicts with utility relocation.
- Coordination continued with Leeward Community College regarding the relocation of portable classrooms.

Precast Yard Progress

- Production segment casting to continue at a rate of 12 segments per day. There is a scheduled 2-week shut down of the yard for annual maintenance the last 2 weeks of the month.

KIWC/Third-Party Coordination

- Continue to resolve conflict issues with third-party agencies.

KEY ISSUES:

- **Design Completion Schedule** – There was concern that the Project’s design schedule was falling behind. KIWC and HART began holding meetings to discuss more accurate review periods as well as to offer assistance where third-party reviews were impacting the design schedule. Comment Disposition and Over-the-Shoulder Meetings continue to occur and a more realistic schedule has been submitted to HART. As of November, four (4) more submittals have been submitted increasing the total to 98 of 124 design submittals.
- **Leeward Community College (LCC) Portables and Parking Lot Change Order** – In order for KIWC to begin work at the LCC Station area, four (4) portable buildings need to be relocated to another location within the campus. Before relocation can begin, KIWC will need to first conduct a Hazardous Materials assessment of the existing buildings. HART is currently developing a Change Order to begin work on this assessment in order for KIWC to complete the LCC Station on schedule.
- **MS4 Waipahu High School (WHS) Permit** – HART needs to obtain an MS4 Permit with the Hawai’i Department of Education (DOE) in order for construction to begin on an MSE Wall by Piers 251 and 252. The permit would allow for a permanent connection to the WHS MS4. Conditional approval of this permit should be in place by December 2014.
- **Shaft 135 Delay Due to Overhead Line Obstruction** – KIWC cannot drill Shaft 135 until electrical overhead lines can be relocated underneath the guideway as part of Conflict 2-555-M1. The overhead lines prevent the drilling equipment from operating within the vicinity. In November, the overhead lines have been relocated into underground ductbanks and HECO is completing the connections on the outlying pole structures.
- **Construction Production** – Meeting the project’s schedule will continue to be a challenge for the project. Shaft drilling, concrete pouring for shafts/columns, and span erection and stressing continue to lag behind monthly baseline production rates while segment casting remains on schedule. A re-sequenced baseline schedule will be submitted to HART in December 2014 showing more realistic construction durations.
- **Third-Party Utility Relocations Due to Re-sequenced Schedule** – Originally KIWC had planned to move their Span by Span Heading #1 from Span 89 by Ho’opili Station to Span 250 by Waipahu High School after completion of Span 89. KIWC has decided to continue progressing east past Span 89 and therefore electrical utilities will need to be relocated earlier than expected. KIWC continues to discuss their schedule with Hawaiian Electric (HECO), HTI, and Oceanic Time Warner (OTW).

KEY QUALITY ISSUES:

- **Span 67 Damage** – During the erection process of Span 67, the underside of Segments 67-11 and 67-12 were damaged due to unbalanced support from the temporary bearings. NCR 00144 was opened on June 17, 2014 to address the issue as a Root Cause Analysis was submitted to HART on October 4, 2014. In November, KIWC was finalizing the redesign of the Segments as well as the repair process which is scheduled to begin in January 2015 and to be completed in February 2015.
- **Drill Shaft Quality** – Of the 191 drill shafts that have been Crosshole Sonic Logging (CSL) tested to date, 21 shafts (11%) were found to have velocity reductions outside of the acceptable design criteria limits potentially because concrete was segregated during concrete placement. CSL testing is a method to verify the structural integrity of the drilled shafts. KIWC continues to have weekly Drill Shaft Quality Meetings with HART to discuss testing results, quality issues, the concrete mix, and methods for repair.
- **Drill Shaft Repair NCE/NCR Procedures** – Of the 21 drill shafts that were found to have velocity reduction issues, NCRs have been opened and submitted to HART. HART will not close an NCR until KIWC completes another CSL test and demonstrates soundness of the concrete shaft. Shaft repairs have not been conducted to date. KIWC is still in the process of developing the proper repair procedures for HART’s review within the related NCR.

- **Responsiveness to Best Management Practices (BMPs)** – KIWC’s Environmental Group has consistently addressed HART/HDOT BMPs issues in a timely manner. Weekly site inspections continue with HART and monthly inspections continue with HDOT. The Project strives to minimize construction impacts to the existing environment and to remain in compliance permitting requirements.
- **Grouting Efficiency** – Grouting operations of the tendons previously played a key in role in preventing KIWC from completing spans. In September 2014, the contractor began utilizing the grouting equipment in a manner which better cooled and liquefied the grout mix. Although only five spans were grouted in July and August, 18 spans were completed in September, eight in October, and 12 were completed in November. The contractor continues to maintain steady progress which in turn allows the Bearing Pad/Final Span Set Group to continue their operations.
- **Column Quality** – While quality issues persist with the concrete shafts and individual pre-casted segments, KIWC has been consistent in providing quality columns. Of all the current open NCRs, only one column related NCR is open and it is in the process of being repaired.

WOFH NCR Log		
Total NCRs Issued To Date	CLOSED	OPEN
227	159	68

PROJECT PICTURES:



Launching underslung truss to Span 45.



Thermite welding of rail section at Span 78.



Constructing falsework for underslung truss pier brackets for Columns 47 and 48 (westbound).



Concrete pour to East Wing Wall, Cane Haul Road underpass.

B. West O’ahu Station Group (WOSG)



Contract No.: FD-140
Contractor: URS Corporation, Final Design Consultant (Engineer of Record)
Contract Start Date: June 2012
Construction Docs Bid-Ready: March 12, 2015

Project Description: Architectural and engineering services for the design of three (3) transit stations situated along the WOFH Guideway. The three stations comprising the WOSG contract are the East Kapolei Station, the UH West O’ahu Station and the Ho’opili Station.

COST INFORMATION:

<u>Original Contract:</u> \$7,789,000	<u>Incurred-to-Date:</u> \$7,546,546
<u>Committed¹:</u> \$9,560,305	<u>Incurred in Oct.:</u> \$306,628
<u>Authorized²:</u> \$8,293,505 (86.7%)	

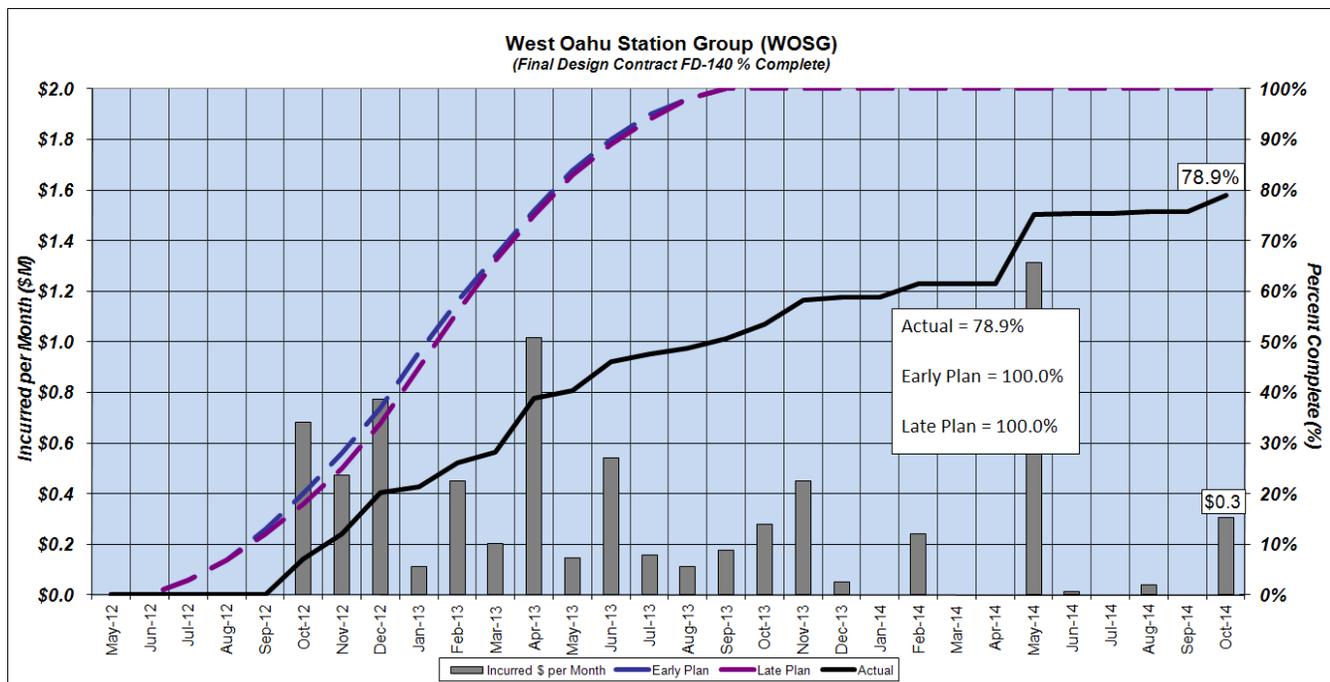
¹Commitment = Original contract value (not including contingency) with Design Allowance + executed Change Orders
²Total Authorized for Expenditure (AFE) = NTP dollar values + executed Change Orders

Disadvantaged Business Enterprise (DBE) Participation	
Actual DBE Participation:	\$0
DBE % Attained:	0%

October Notices to Proceed
None

October Change Orders/Amendment	
Change No./Amend	Amount (\$)
CO00010	\$102,298
CO00011	\$297,500
Cumulative to Date	\$1,771,305*

*Cumulative to Date has been adjusted due to double counting of allowance.



Current figure reflects adjustments to components of the budget baselines.

The closeout of the WOSG contract is currently behind schedule due to design interfaces with other HART contracts, ongoing value engineering efforts, and a reorganization of the WOSG construction solicitation package.

SCHEDULE:

October 2014 Update				Data Date: 31-Oct-14, Printed On: 24-Nov-14														
Activity Name	Start	Finish	Finish Variance	2014			2015				2016				2017		2018	
				Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
W. Oahu/Farrington Highway (WOFH) - Section 1	14-Jan-10 A	22-Dec-17	0d															
W. Oahu Station Group	14-Jan-10 A	22-Dec-17	0d															
Design - W. Oahu Station Group	14-Jan-10 A	05-Oct-17	0d															
Construction - W. Oahu Station Group	01-Jun-15	22-Dec-17	0d															
East Kapolei Station	01-Jun-15	05-Oct-17	0d															
UH West Oahu Station	01-Sep-15	22-Dec-17	0d															
Ho'opili Station	01-Jun-15	11-Jul-17	0d															

CRITICAL PATH ISSUES:

- HART is overseeing and expediting value engineering design efforts to save construction costs on these three stations. These changes will be consistent with the effort already underway on the FHSG contract.
- HART is accelerating URS' completion of the WOSG construction documents in anticipation of an early 2015 construction solicitation.
- HART is proactively facilitating interface resolution with the CSC, WOFH and EE contracts to ensure consistency and integration of these designs.

WORK PROGRESS:

Activities this Month:

- Interfacing design with CSC, WOFH and EE contracts.
- Incorporating value engineering directives from HART.
- Modifying package to be a standalone 3-station bid set, as compared to previous 9-station bid set.
- Resolving third-party comments and pursuing approvals.

Look Ahead:

- Complete design and value engineering efforts.
- Document design interface agreements with CSC, WOFH and EE contracts.
- Obtain third-party approvals.
- Prepare construction solicitation package.
- Finalize construction agreements with adjacent land owners.

KEY ISSUES:

- Coordinating with HDOT to resolve significant policy level design review comments.
- Tracking resolution of interfacing designs and managing risks associated with misaligned design schedules.

C. Farrington Highway Station Group (FHSG)

Contract No.: FD-240

Contractors:

URS Corporation

Start Date: September 27, 2013 End Date: June 2017

HDR Engineering, Inc.

Start Date: January 12, 2011 End Date: April 5, 2013

Construction Docs Bid-Ready: Dec. 19, 2014

Project Description: Architectural and engineering services for the design of three (3) transit stations situated along the WOFH Guideway. The three stations comprising the FHSG contract are the West Loch Station, the Waipahu Transit Center Station and the at-grade Leeward Community College Station.



COST INFORMATION:

Original Contract: \$9,300,696	Incurred-to-Date: \$9,885,212
Committed ¹ : \$14,198,045	Incurred in Oct.: \$198,333
Authorized ² : \$12,877,632 (90.7%)	

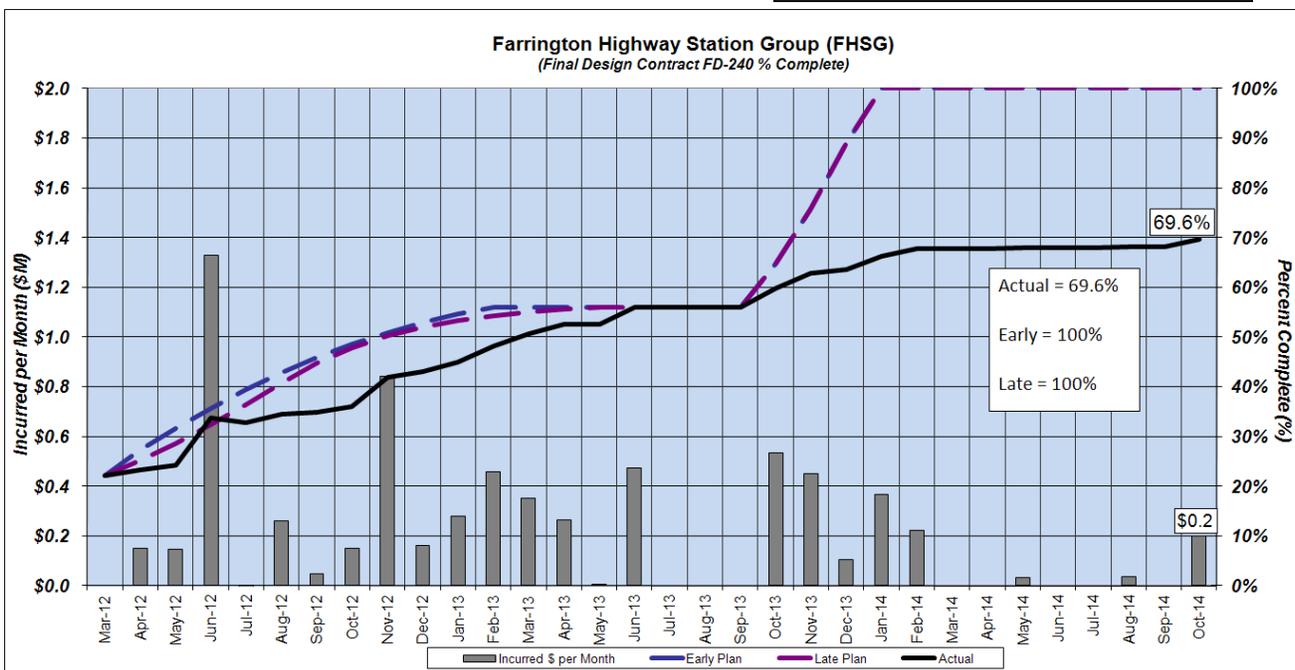
¹Commitment = Original contract value (not including contingency) with Design Allowance + executed Change Orders
²Total Authorized for Expenditure (AFE) = NTP dollar values + executed Change Orders

Disadvantaged Business Enterprise (DBE) Participation	
Actual DBE Participation:	\$258,611
DBE % Attained:	4.7%

October Notices to Proceed
None

October Change Orders/Amendments	
Change No./Amend	Amount (\$)
CO0001	\$297,500
CO0002	\$768,756
CO0003	\$472,705
CO0004	\$748,539
Cumulative to Date	\$4,897,349*

*Cumulative to Date has been adjusted due to double counting of allowance.



Current figure reflects adjustments to components of the budget \$ baselines.

The closeout of the FHSG contract is currently behind schedule due to design interfaces with other HART contracts, ongoing value engineering efforts, and a reorganization of the FHSG construction solicitation package.

D. Maintenance and Storage Facility (MSF)

Contract No.: DB-200

Contractor: Kiewit/Kobayashi Joint Venture (KKJV)

Contract Start Date: July 2011

Contract Substantial Completion: April 2016

Project Description: The MSF contract consists of the operations and servicing building, maintenance of way, train wash facility and wheel truing building. In addition to the four (4) facility buildings, MSF includes rail procurement, special trackwork, ties, third rail and other track material for the four guideway segments on the project.



COST INFORMATION:

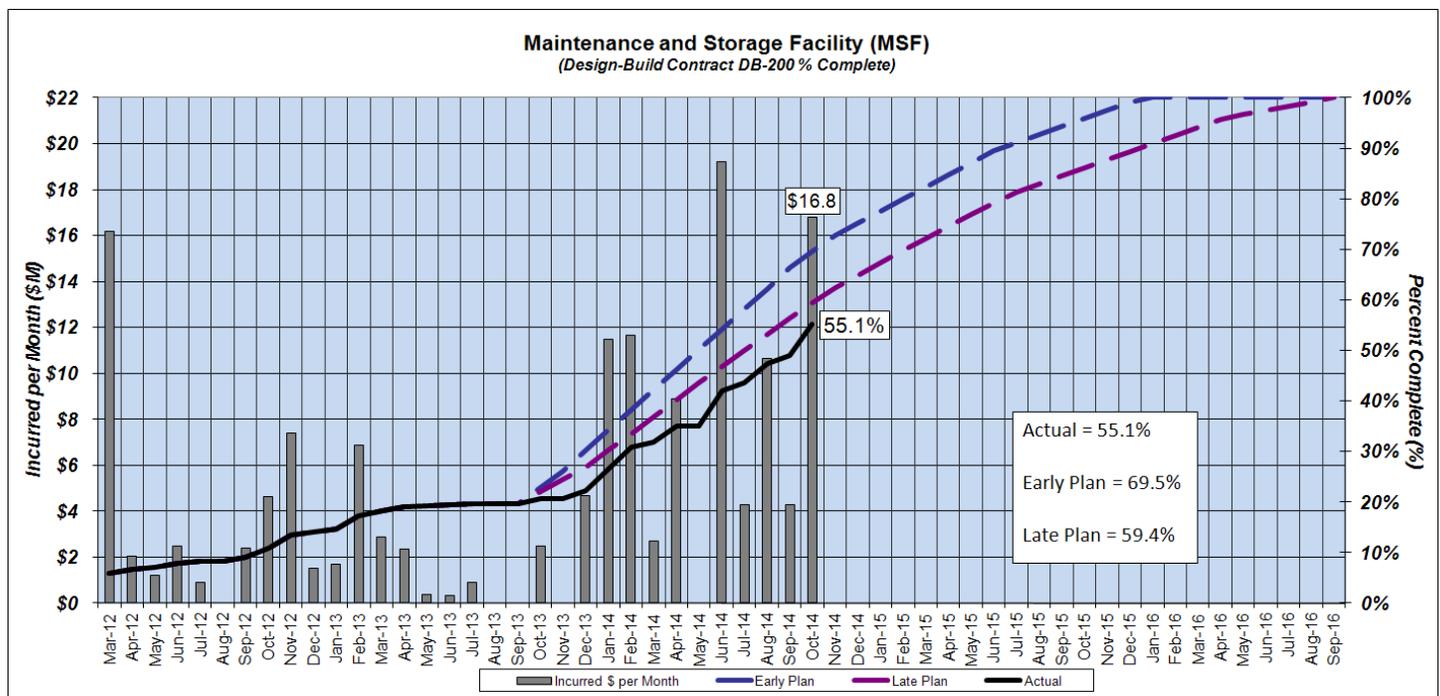
Original Contract: \$195,258,000	Incurred-to-Date: \$151,214,117
Committed ¹ : \$274,358,008	Incurred in Oct.: \$16,791,831
Authorized ² : \$207,388,742 (75.6%)	

¹Commitment = Original contract value (not including contingency) + executed Change Orders
²Total Authorized for Expenditure (AFE) = NTP dollar values + executed Change Orders

Disadvantaged Business Enterprise (DBE) Participation	
Actual DBE Participation:	\$142,923
DBE % Attained:	0.07%

October Notices to Proceed
None

October Change Orders	
Change No.	Amount (\$)
00028	\$8,500,000
Cumulative to Date	\$79,100,008



Current figure reflects adjustments to components of the budget baselines.

SCHEDULE:

- The MSF substantial completion date is April 15, 2016. No current schedule concerns.

October 2014 Update				Data Date: 31-Oct-14, Printed On: 24-Nov-14 13:34												
Activity Name	Start	Finish	Finish Variance	2014			2015				2016					
				Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
Total	29-Aug-11 A	15-Apr-16	0d													
Maintenance & Storage Facility (MSF)	29-Aug-11 A	15-Apr-16	0d													
Design	29-Aug-11 A	27-Jan-15	-1d													
Design & Engineering	29-Aug-11 A	27-Jan-15	-1d													
Construction	26-Jul-12 A	15-Apr-16	0d													
Wheel Truing Building	18-Jul-14 A	20-Jul-15	-28d													
Maintenance of Way Building	12-May-14 A	15-Dec-15	-11d													
Train Wash Facility	26-Dec-14	11-Jan-16	-52d													
Operations & Servicing Building	27-Nov-13 A	20-Jan-16	-13d													
Yard Trackwork	22-Jan-15	08-Feb-16	0d													
Third Rail	24-Jun-15	08-Feb-16	0d													
Site Civil/Utilities	26-Jul-12 A	02-Mar-16	0d													
Project Facility Commissioning, Closeout & Turnover	24-Sep-15	15-Apr-16	0d													

CRITICAL PATH ISSUES:

- Addressing yard reconfiguration interface with Core Systems Contractor.
- Scheduling work related to test track and functional track to support program opening dates.

Element	% Complete
OSB	36%
MOW Building	27%
WTB	20%
Rail Procurement	84%

WORK PROGRESS:

Activities this Month:

Earned Value: 58.5% [(Total Achieved to October 2014 (151 million + Projected November 2014 Period (9.9 million))/Total Contract Including Executed Change Orders (274 million)]. Planned Value: 62.5%

Yard/Utilities

- Continuing to install site water, sewer, drainage and electrical utilities.
- Continued trench excavation for Rail Traction Power and electrical conduit.
- Formed, installed rebar and poured MOW south underpass structure wall.

Operations and Servicing Building (OSB)

- Continued OSB underground electrical and plumbing.
- Resuming structural steel erection.
- Placed concrete for second lift of OSB SOG.
- Installed rail column anchor bolts and trench drains.
- Commenced erection of concrete tilt-up panels.

Maintenance of Way (MOW)

- Commenced concrete tilt-up panel pours.
- Commenced SOG concrete pours.
- Commenced installation of 115 RE embedded track rail.

Wheel Truing Building (WTB)

- Backfilled perimeter stem wall.
- Installed utility conduits under SOG.
- Forming for concrete tilt-up panel pours.

Rail Procurement

- Continued with the procurement of rail materials.
- Continued stockpiling rail material in the Pasha yard.

Administration

- Continued working with the CSC to resolve design interface issues.

Look Ahead:

- Continue installation of site utilities.
- Continue installation of OSB and MOW structural steel.
- Continue installation of OSB and MOW underground electrical and plumbing rough in.
- Continue OSB and MOW slab on grade preparation and concrete pour.
- Continue OSB and MOW tilt-up panel pours and erection.
- Continue installation of Traction Power and system duct banks.
- Continue installation of Wheel Truing Building structure.
- Complete MOW underpass structure concrete deck.
- Commence WTB concrete tilt-up panel forming and pours.

KEY ISSUES:

- WOFH West Yard Lead Retaining wall – WOFH delay could potentially impact MSF utility and track ballast installation schedule if not completed in timely manner. WOFH to start construction of retaining wall shortly.
- Revised Insulated Joints (IJ) locations - CSC revised locations of IJ's may potentially impact MSF's cost and schedule. Discussions to mitigate cost and schedule are currently being held.

KEY QUALITY ISSUES:

- **OSB Grout Under Columns** – The grout mix installed under the columns at the OSB was installed without accurately measuring the water added to the mix and without accurately timing the grout mixing time. The contractor is currently removing the non-conformanced grout and replacing it with proper grout.
- **Missing Dowels in Pour Back Strip** – The concrete joint between the Maintenance of Way interior Slab on Grade and abutting perimeter slab pour was improperly prepared as an isolated expansion joint utilizing slip plates to interlock the slabs. An NCR was issued, rebar dowels are epoxied in. The NCR is being held open until the pours are complete.
- **Diamond Dowels in MOW Track Slab** – Diamond dowels installed at MOW thickened track slab do not comply with design drawings. New dowels are currently being installed per design drawings.

MSF NCR Log		
Total NCRs Issued To Date	CLOSED	OPEN
21	18	3

PROJECT PICTURES:



Continued grading the slope along track S1-10.



Continuing the installation of traction power conduits, encasing at the east and west end of track S1-10.



Continuing structural steel erection between OSB gridline 1-5/C-G.



Placed concrete for the 1st set of MOW tilt-up wall panels on casting slab # 2 and 2A.



Formed, installed rebar and placed concrete for partial perimeter WTB stem wall.



Installed rebar template on top portion of the wall form at the south underpass.



Completed erection of OSB tilt-up wall panels along GL 7 stem wall.



Erecting, field fillet welding and bolting the structural steel members at OSB.



Completed forming and placed concrete at the MOW south underpass structure wall.



Backfilling, compacting and grading the SOG subbase at inside perimeter stem wall at WTB.

4.3 Section II – Kamehameha Highway: Pearl Highlands to Aloha Stadium

A. Kamehameha Highway Guideway (KHG)

Contract No.: DB-320

Contractor: Kiewit Infrastructure West Company (KIWC)

Contract Start Date: June 2011

Contract Substantial Completion: September 2016

Project Description: Kamehameha Highway Guideway DB Contract (KHG) consists of 3.9 miles and starts 400 feet east of the Pearl Highlands Station and terminates 1,400 feet beyond the Aloha Stadium Station. KHG is made up of utility relocations, highway widening, drilled shaft foundations (one per column), columns, and aerial structure.



COST INFORMATION:

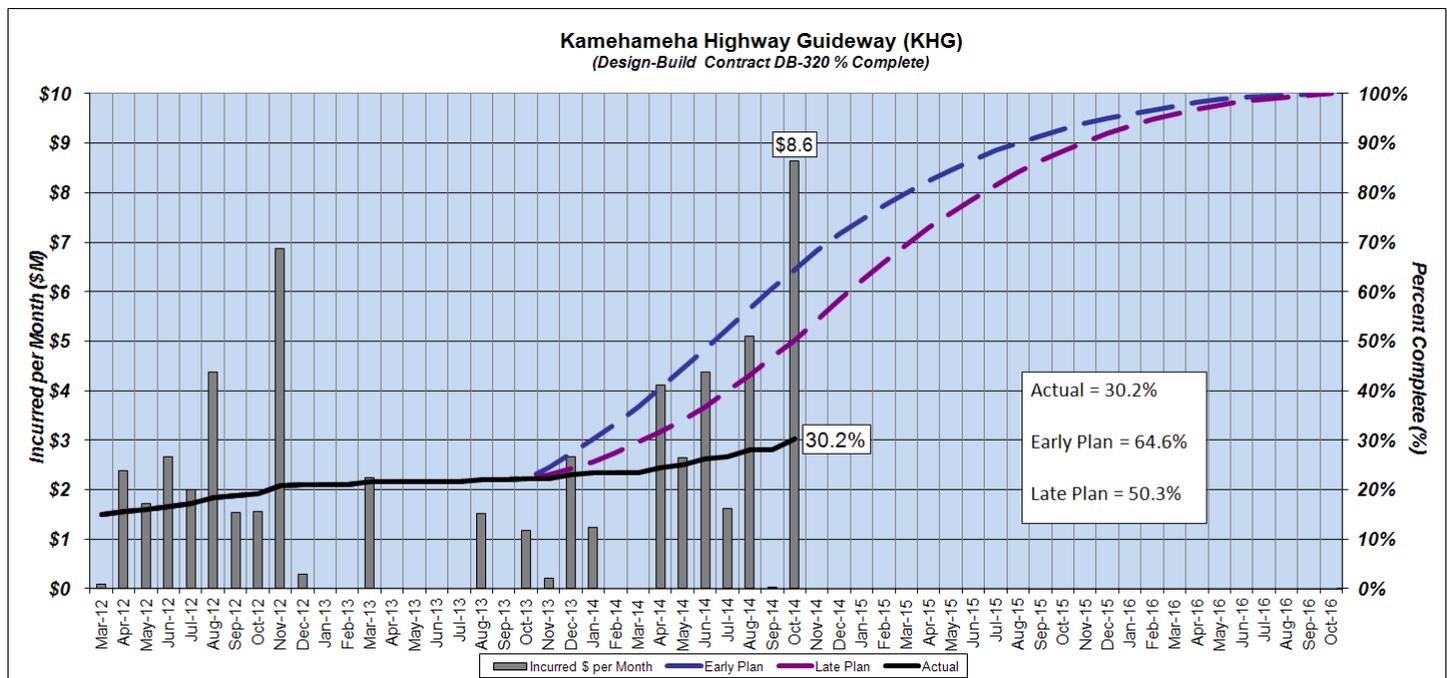
<u>Original Contract:</u> \$372,150,000	<u>Incurred-to-Date:</u> \$116,390,828
<u>Committed¹:</u> \$385,015,363	<u>Incurred in Oct.:</u> \$8,643,959
<u>Authorized²:</u> \$175,031,444 (45.5%)	

¹Commitment = Original contract value (not including contingency) + executed Change Orders
²Total Authorized for Expenditure (AFE) = NTP dollar values + executed Change Orders

Disadvantaged Business Enterprise (DBE) Participation	
Actual DBE Participation:	\$297,631
DBE % Attained:	0.08%

October Notices to Proceed
None

October Change Orders	
Change No.	Amount (\$)
CO00013	\$1,350,000
Cumulative to Date	\$12,865,363



Current figure reflects adjustments to components of the budget baselines.

- Progress payment #36, for station load design changes, has been submitted and approved in the system.
- Progress #37 (August) and #38 (September) have been submitted for payment purposes.

SCHEDULE:

- The accepted rebaselined schedule dated Oct. 28, 2013 is no longer valid, and HART has requested a recovery schedule showing how KIWC would achieve the currently agreed upon substantial completion date of Sept. 16, 2016. KIWC initially proposed a list of mitigation measures that would allow recovery, but has since notified HART that the substantial completion date is no longer achievable. They have provided a draft schedule which is under review.

October 2014 Update				Data Date: 31-Oct-14, Printed On: 24-Nov-14 11:11											
Activity Name	Start	Finish	Finish Variance	2015				2016				2017			
				Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2				
Total	03-Oct-14 A	24-Apr-17	0d												
West Guideways & Structures	03-Oct-14 A	24-Apr-17	0d												
Kamehameha Highway (KH) - Section 2	03-Oct-14 A	24-Apr-17	0d												
Kamehameha Highway Guideway	03-Oct-14 A	24-Apr-17	0d												
Kiewit KHG Summary	03-Oct-14 A	24-Apr-17	0d												
Foundations	03-Oct-14 A	22-Sep-16	0d												
Drilled Shafts	03-Oct-14 A	27-Jul-16	0d												
Columns	10-Nov-14	22-Sep-16	0d												
Guideway	11-Dec-14	14-Nov-16	0d												
Precast Segment Erection	11-Dec-14	14-Nov-16	0d												
Cast BC Segments	27-Jul-15	25-Aug-16	0d												
Trackwork	29-Jul-15	09-Jan-17	0d												
Direct Fixation Trackwork	29-Jul-15	22-Dec-16	0d												
Third Rail	11-Aug-15	09-Jan-17	0d												
KHG Project Finish Work, Demob, Punchlist	04-Feb-16	24-Apr-17	0d												

CRITICAL PATH ISSUES:

- Awaiting submission of recovery schedule from KIWC.
- Mitigate third-party dry utility relocation durations.
- Outstanding ROW issues, including securing construction right of entries for UH Urban Garden and the guideway work at Aloha Stadium, as well as reaching an understanding with TMKs 9-7-023-008, 9-7-022-008 and 9-7-022-021.

WORK PROGRESS:

KHG Construction Status as of 11/28/14								
Utility Status	Qty to Date	Final Qty	% Complete	Structure Element	Total to Date	Planned to Date*	Total Qty**	% Complete
Water Line	2,749	4,362	63.0%	Shafts	3	3	155	1.9%
Gas Line	7,666	12,641	60.6%	Columns	0	0	155	0%
Sewer Line	77	1,077	7.1%	Segment Casting	0	0	2,991	0%
Drainage	536	2,081	25.8%	Segment Erection	0	0	2,991	0%
Elec/Telecom	5,886	19,455	30.3%	Spans Stressed	0	0	155	0%

* Planned Values based on current 5 week schedule. Awaiting recovery schedule submittal from Kiewit.
 **Total Qty based on RFP plans. Final design has not been completed.

Activities this Month:

Earned Value: 31.8% [(Total achieved to September 2014(108.7 million + projected October & November 2014 period (13.7 million))/Total contract including executed Change Orders (385 million)]. Planned Value: 54.3%

Joint Use and Occupancy Agreement Progress (JUOA)

- Maintaining the JUOA area, including the cutting of grass, trimming trees, and roadway maintenance along Kamehameha Highway.

Shaft/Column

- Constructed 3 production shafts which includes drilling, concrete placement, and CSL testing.
- Completed the abandonment and restoration of traffic at Test

Look Ahead:

Design Progress

- HART and KIWC are working together to complete final design. To date 31 of 50 design submittals have been issued for construction.
- Continue interface activities.

Utility Relocation

- Continue installation of street and traffic lights.
- Continue relocation of HECO 46KV line in Packages 6 and 8.
- Continue work on gas lines F, O, P and Q.

Shaft 15.

Utility Relocation Progress

- Continued gas lines K, M1, M2, N and P in Phase 5.
- Continued the relocation of the HECO 46KV lines in Phases 4 and 8.
- Continued relocation of Hawaiian Tel duct banks in Phases 1 and 5.
- Completed relocation of waterline D in Phase 12.
- Continued installation of joint use poles throughout the alignment.
- Continued potholing for utility relocations.
- Continued Intelligent Transportation Systems (ITS) Phase 2 work.
- Began installation of street lights and traffic signals at Acacia Road.

Safety and Security Certification (CIL)

- Continued compilation/review of completed design package CIL for Safety and Security Certification.
- Continued observation of sensitive areas by archaeological and cultural monitors

Roadway Widening

- Completed road widening in Phases 1, 1B and 12; continued road widening in Phases 5, 6 and 11.

- Continue work on sewer line B.

Recovery Schedule

- Review completed recovery schedule.

Roadway Widening

- Continue roadway widening in Phases 5A and 11.
- Begin installation of retaining wall fronting UH Urban Garden.

KEY ISSUES:

- **HECO Coordination** – KIWC cannot drill Shaft 270 until HECO relocates their 46kv overhead line as part of utility conflict 1-773-E1 and provide temporary outage of their 138kv line. Per the schedule provided HECO during coordination meetings, the work was to be complete by Sept. 17, 2014. HECO later represented that they would commence the work in November, but subsequently notified KIWC on Nov. 10, 2014 that the work would not begin until January 2015. Following drilling of Shafts 268 and 269, KIWC remobilized their drill rig to the WOFH project in an attempt to mitigate the impact.
- **HDOT / DTS betterments** – HDOT / DTS continue to require the inclusion of betterment items in the design packages as a prerequisite to their approval. This has resulted in delays to the completion of the design packages, and procurement of long lead time items such as traffic signal materials that were not originally part of the contract.
- **Schedule** – Lack of a current project schedule from KIWC hampers the project team’s ability to plan and mitigate for any critical path items that may be upcoming. Though KIWC committed on October 28 to provide a schedule ready for review by November 12, to date, no such schedule has been provided.

KEY QUALITY ISSUES:

- **Design** – Design packages seem to lack QC prior to submittal for review to third parties, resulting in longer than expected review times and additional review requirements.
- **Field Design Change (FDC) vs. Notice of Design Change (NDC)** - Changes made to the FDC/NDC process in the latest Quality Assurance Plan (QAP Rev 7) removed HART from the approval process. NCR 00029 was issued on August 21, with a corrective action response from KIWC proposed the same day. The proposed revision is being reviewed by a HART FDC/NDC task force.
- **NCR 17 - Drain Line B Pipe Material** – While verifying the pipe material requirements for Drainline B, KIWC noticed that the note on UP106B differed from the note on UP106. On UP106 the call out for the pipe to pipe connection at Sta 3+67 specifies "New D24 to match Exist D24 pipe material." UP106B specifies that "New D24 pipe material shall match existing D24 pipe material and shall be consistent for all of DL "B"." Concrete Pipe was used to connect from the existing concrete pipe at STA 3+67 to SDMH B-3, however, KIWC installed HDPE pipe between SDMH B-1 (STA 0+00) and SDMH B-3 (3+45). Per the note on UP106B, KIWC should have used Concrete Pipe for the entire Drain Line B. NCR 00017 was issued, and KIWC requested the pipe be allowed to remain in place. KIWC is still working with HDOT to gain their concurrence to this solution.

KHG NCR Log		
Total NCRs Issued To Date	CLOSED	OPEN
36	30	6

PROJECT PICTURES:



Drilled Shaft at Kam.



Paving Phase 1B widening.

B. Kamehameha Highway Station Group (KHSG)

Contract No.: FD-340
Contractor: Anil Verma Associates, Inc. (AVA), Final Design Consultant (Engineer of Record)
Contract Start Date: November 2012
Construction Docs Bid-Ready: April 30, 2015



Project Description: The Kamehameha Highway Stations Group FD Contract (KHSG) consists of architectural and engineering services for the design of three (3) transit stations situated along the Kamehameha Highway Guideway. The three (3) stations comprising the KHSG contract are the Pearl Highlands Station and H2R2 Ramp, the Pearlridge Station, and the Aloha Stadium Station.

COST INFORMATION:

<u>Original Contract:</u> \$8,702,592	<u>Incurred-to-Date:</u> \$7,687,346
<u>Committed¹:</u> \$8,702,592	<u>Incurred in Oct.:</u> \$0
<u>Authorized²:</u> \$8,004,496 (92%)	

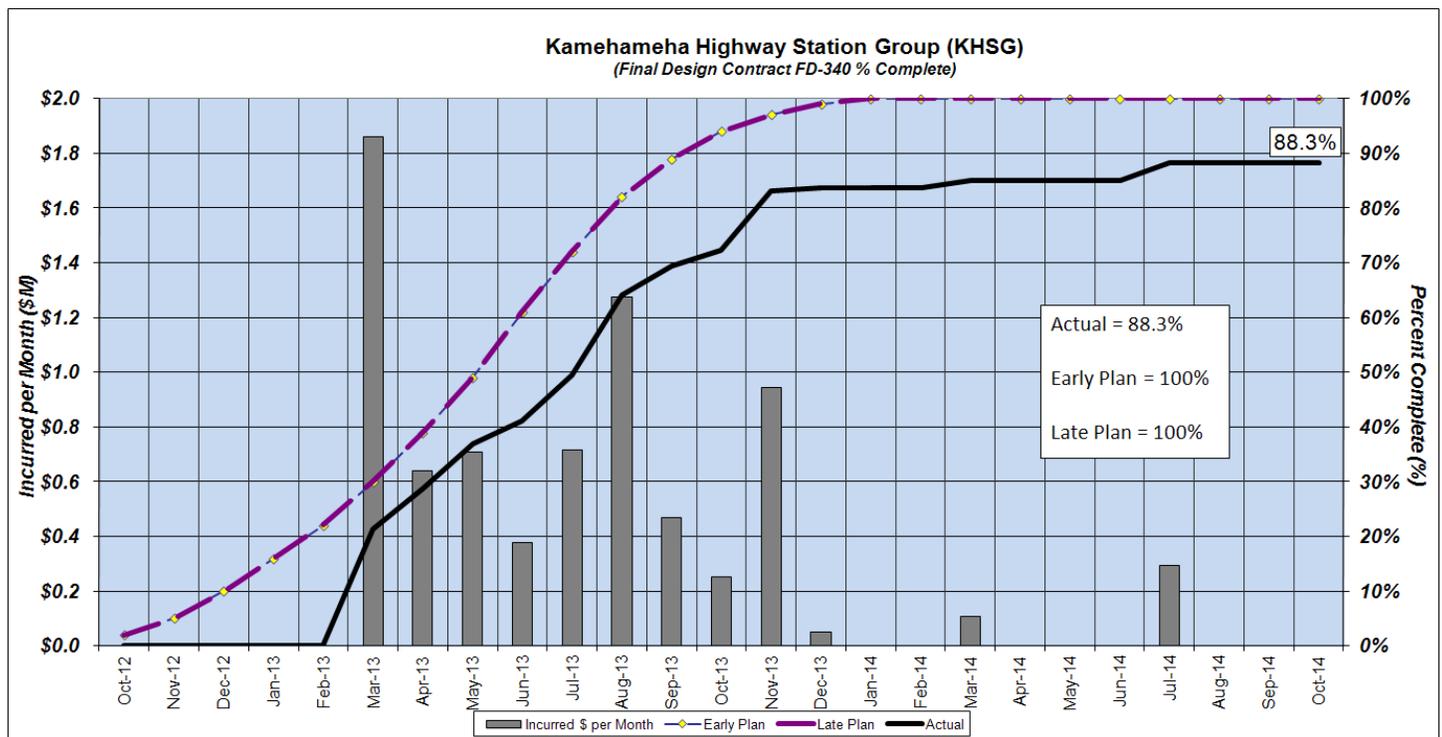
¹Commitment = Original contract value (not including contingency) with Design Allowance + executed Change Orders
²Total Authorized for Expenditure (AFE) = NTP dollar values + executed Change Orders

Disadvantaged Business Enterprise (DBE) Participation	
Actual DBE Participation:	\$3,239,360
DBE % Attained:	37.22%

October Notices to Proceed
None

October Change Orders/Amendments	
Change No./Amend	Amount (\$)
None	---
Cumulative to Date	\$0*

*Cumulative to Date has been adjusted due to double counting of allowance.



The closeout of the KHSG contract is currently behind schedule due to design interfaces with other HART contracts, ongoing value engineering efforts, and a reorganization of the KHSG construction solicitation package.

4.4 Section III – Airport: Aloha Stadium to Middle Street Transit Center Station

A. Airport Section Guideway and Utilities



Contract No.: FD-430

Contractor: AECOM Technical Services, Inc., Final Design Consultant (Engineer of Record)

Contract Start Date: January 2012

Construction Docs Bid-Ready:

Utilities: June 2014

Guideway: June 2014 (Issued for Request for Bid July 2014)

Project Description: The Airport Segment Guideway and Utilities FD Contract (Airport) consists of widening of portions of Kamehameha Highway and other streets to accommodate the guideway columns, provide bus stops, improve sidewalks and medians, related traffic signals, address environmental mitigation commitments, and other related improvements. Design of barrier walls attached to the guideway, and running rails. Numerous utilities along the proposed alignment require relocation to allow for the guideway construction.

COST INFORMATION:

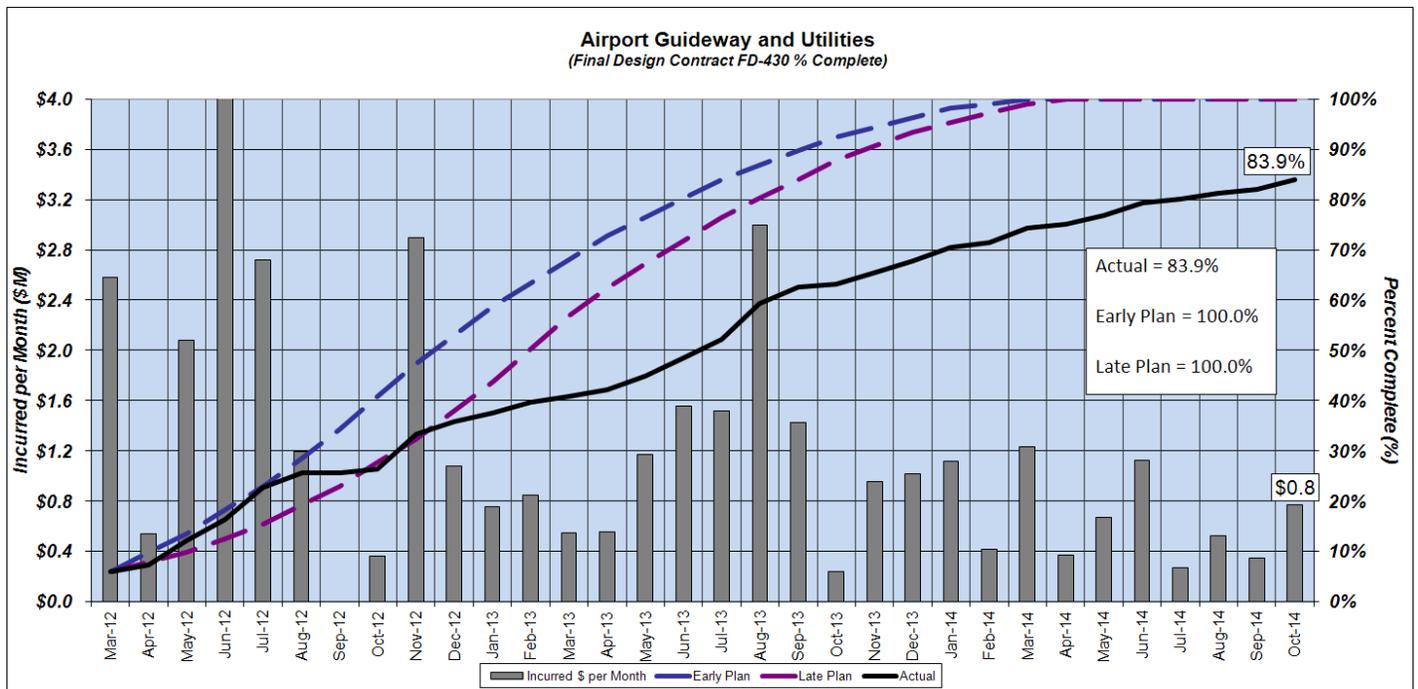
Original Contract:	\$38,840,960	Incurred-to-Date:	\$35,700,077
Committed ¹ :	\$42,552,132	Incurred in Oct.:	\$772,064
Authorized ² :	\$42,552,132 (100%)		

¹Commitment = Original contract value (not including contingency) with Design Allowance + executed Change Orders
²Total Authorized for Expenditure (AFE) = NTP dollar values + executed Change Orders

Disadvantaged Business Enterprise (DBE) Participation	
Actual DBE Participation:	\$162,813
DBE % Attained:	0.42%

October Notices to Proceed
None

October Change Orders/Amendments	
Change No./Amend	Amount (\$)
Adjustment	(\$1,588,014)
Cumulative to Date	\$3,711,172



Design was combined with the City Center Guideway and Utilities and was completed in June 2014 to support the Airport and City Center Guideway and Utilities Construction solicitation in July 2014. This procurement is now active.

SCHEDULE:

October 2014 Update				Data Date: 31-Oct-14, Printed On: 24-Nov-14 13:40																							
Activity Name	Start	Finish	Finish Var	2014				2015				2016				2017				2018							
				Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
Total	09-Nov-11 A	07-Dec-17	-21d																								
Airport Programmatic	01-May-12 A	04-Feb-14 A	0d																								
Airport Permits	09-Nov-11 A	09-Feb-16	-35d																								
Design - Airport Guideway & Utilities	05-Jan-12 A	31-Oct-14	-35d																								
Construction - Airport Guideway	03-Mar-15	07-Dec-17	-21d																								

CRITICAL PATH ISSUES:

- HART is proactively facilitating interface resolution with the CSC, KHG and ASG contracts to ensure consistency and integration of these designs.
- HART is aggressively pursuing property rights and using documented design assumptions where geotechnical data cannot be obtained to support the current design schedule.
- HART is overseeing coordination between final design consultant AECOM and critical third parties.

WORK PROGRESS:

Activities this Month:

- Coordinating with HDOT (Highway and Airport Divisions), utility companies, U.S. Navy, HECO, and other stakeholders.
- Interfacing design with CSC, KHG and ASG contracts.
- Coordinating design with right-of-way acquisitions.

Look Ahead:

- Document design interface agreements.
- Finalize Faraday shielding design for guideway near Middle Street Station.
- Obtain third-party approvals.

KEY ISSUES:

- Schedule for current active procurement is under executive review.
- Assessing cost and schedule impacts associated with HECO’s potential requirement to reconstruct existing building electrical service connections.
- Assessing potential right-of-way impacts due to HECO requests.
- Acquiring rights-of-way and rights-of-entry, and pursuing partial demolition of select properties.
- Finalize design options for shielding of communications equipment from Electromagnetic Interference (EMI) due to the proximity of the AM radio tower near the Middle Street Station.

B. Airport Section Utilities Construction

Contract No.: DBB-505
Contractor: Nan, Inc.
Contract Start Date: July 2014
Contract Substantial Completion: February 2016



Project Description: The Airport Utilities contract consists of relocation of a portion of utilities and some utility facilities that will be impacted by the construction of the HART aerial guideway and associated facilities between Aloha Stadium and Middle Street Transit Center. Specifically, the work involves construction of utility relocations affecting underground and overhead communications lines, Navy-owned electrical lines, fuel lines, gas lines, water lines, storm sewer lines, sanitary sewer lines and street light lines and poles/fixtures; HECO work is excluded from this contract. The work also includes installation of ITS (Intelligent Transportation Systems) facilities, to maintain traffic during construction, and demolition of buildings and other site improvements. Erosion control measures, temporary planting, permanent irrigation facilities and restoration of existing facilities are also incorporated into the contractor’s scope of work.

COST INFORMATION:

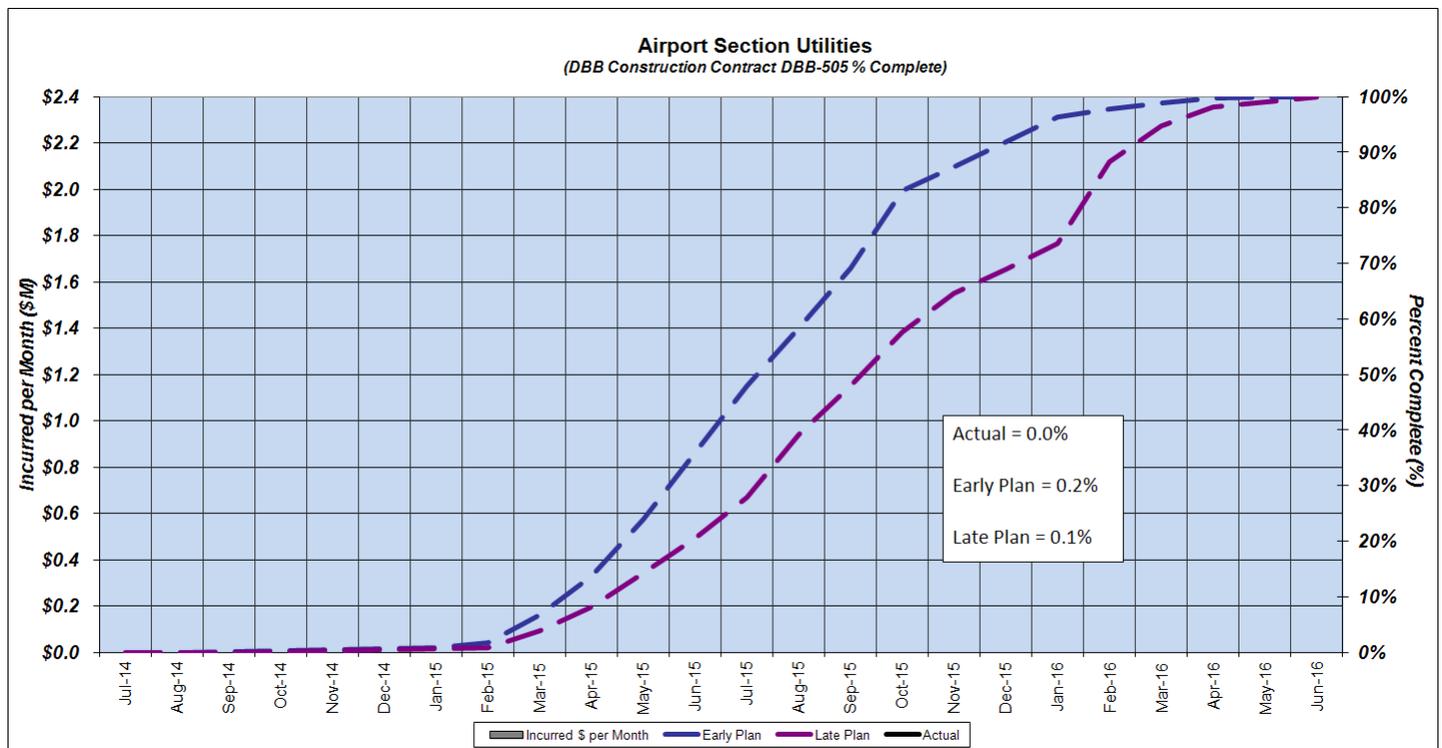
Original Contract:	\$28,413,974	Incurred-to-Date:	\$0
Committed ¹ :	\$28,413,974	Incurred in Oct.:	\$0
Authorized ² :	\$27,383,022 (96.4%)		

¹Commitment = Original contract value (not including contingency) + executed Change Orders
²Total Authorized for Expenditure (AFE) = NTP dollar values + executed Change Orders

Disadvantaged Business Enterprise (DBE) Participation	
Actual DBE Participation:	\$0
DBE % Attained:	0%

October Notices to Proceed
None

October Change Orders	
Change No.	Amount (\$)
None	---
Cumulative to Date	\$0



SCHEDULE:

October 2014 Update		Data Date: 31-Oct-14, Printed On: 24-Nov-14 11:14														
Activity Name	Start	Finish	Finish Variance	2015				2016				017				
				Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2		Q3	Q4	Q1	
Total	30-Jun-14 A	29-Feb-16	166d													
East Guideways & Structures	30-Jun-14 A	29-Feb-16	166d													
Airport - Section 3	30-Jun-14 A	29-Feb-16	166d													
Airport Utility Relocation	30-Jun-14 A	29-Feb-16	166d													
Construction - Airport Utilities Relocation	30-Jun-14 A	29-Feb-16	166d													
Airport Utilities Relocation - Execute Contract	30-Jun-14 A	30-Jun-14 A	0d													
SUMM: DBB-505 - Airport Utilities - Construction	31-Oct-14	29-Feb-16	146d													
Permits for Airport Utilities Construction (Permits)	26-Dec-14	24-Mar-15	0d													
Airport Utilities Construction	25-Mar-15	29-Feb-16	146d													
Airport Utility Relocation - Substantially Complete		29-Feb-16	166d													
HART Utilities	14-Apr-15	03-Feb-16	0d													
HECO Utilities	19-May-15	29-Feb-16	91d													
Utility Relocation Inspection	10-Feb-16	29-Feb-16	166d													
Inspect and Accept Airport Section Utilities Relocations	10-Feb-16	29-Feb-16	166d													

CRITICAL PATH ISSUES:

- Submission and approval of contractor’s baseline schedule.

WORK PROGRESS:

Activities this Month:

- Nan, Inc. has submitted a construction schedule, which is undergoing review.
- NPDES permit application (transferred to Nan), Quality Management Plan (QMP), Environmental Management Plan (EMP), Environmental Compliance Plan (ECP), Public Information Plan and developing a Public Awareness and Community Relations plan have been submitted and are under HART review.
- Nan, Inc. continues to submit RFI and shop drawings for approvals.
- Attended and participated in the pre-construction conference with Nan Inc., CE&I (East) and HART.

Look Ahead:

- Ongoing efforts to establish site field office/trailer.
- Coordinating Project blessing program for groundbreaking.
- Contractor to provide a proposed cost for the changes identified in Rev 1 and Rev 2 drawing changes (anticipated net credit).
- Start of potholing work is projected to begin in January 2015.
- Tree relocation scope to be removed from contract and to be performed by on-call contractor.

KEY ISSUES:

- Nan to secure HDOT permit for potholing.
 - Nan will continue to check with HDOT on status of issuance for pot-holing only.
- Navy right-of-entry to perform work
 - Ongoing coordination with HART ROW regarding access to Navy property for construction related work.
 - Potential issues if Right-of-Entry isn’t granted by Navy.
- Nan, Inc. is behind schedule for beginning construction work, securing site for trailer. Scope of work is being reduced as a result of further coordination, such that schedule may be adjusted.

C. Airport Section Guideway Seven Pier Construction

Contract No.: DBB-525

Contractor: HDCC/CJA JV

Contract Start Date: September 2014

Contract Substantial Completion: February 2015



Project Description: The Airport 7-piers contract consists of seven drilled shaft foundations to be installed within the Honolulu Airport Consolidated Rental Car Facility (CONRAC), which is currently in construction. This work needs to be completed in conjunction with the current construction of the HDOT Airport CONRAC facility; if not the work area will not be available until early 2018, per HDOT Airport. The contractor will be installing seven pier foundations, No. 546, 547, 548, 549, 550, 551R and 552R, relocating miscellaneous utilities, and coordinating with the HDOT Airport and Kiewit, who is the contractor for the CONRAC facility.

COST INFORMATION:

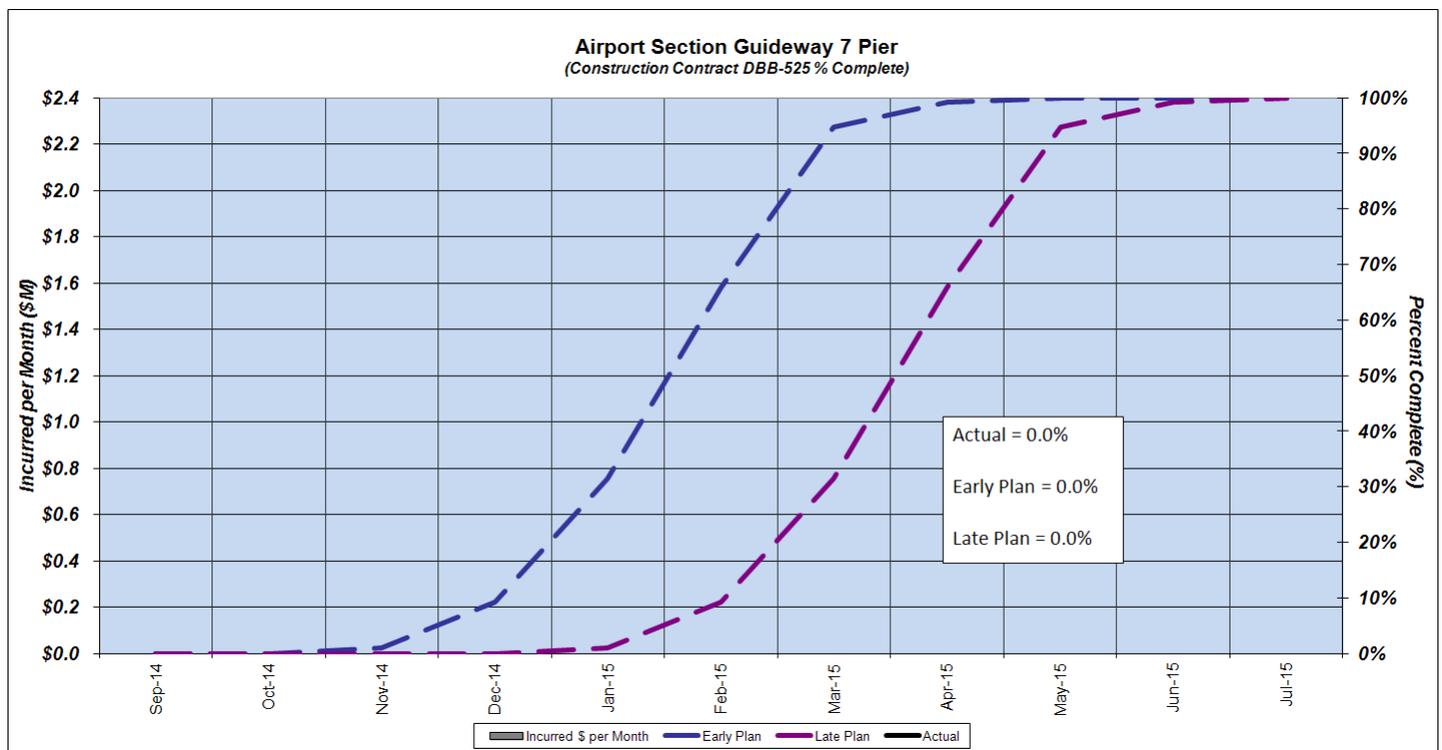
Original Contract:	\$3,973,000	Incurred-to-Date:	\$0
Committed ¹ :	\$3,973,000	Incurred in Oct.:	\$0
Authorized ² :	\$3,973,000 (100%)		

¹Commitment = Original contract value (not including contingency) + executed Change Orders
²Total Authorized for Expenditure (AFE) = NTP dollar values + executed Change Orders

Disadvantaged Business Enterprise (DBE) Participation	
Actual DBE Participation:	\$0
DBE % Attained:	0%

October Notices to Proceed
None

October Change Orders	
Change No.	Amount (\$)
None	---
Cumulative to Date	\$0



SCHEDULE:

October 2014 Update				Data Date: 31-Oct-2014, Printed On: 24-Nov-2014 15:26									
Activity Name	Start	Finish	Finish Variance	2015				2016					
				Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2		
Total	18-Sep-2014 A	28-Feb-2015	62										
East Guideways & Structures	18-Sep-2014 A	28-Feb-2015	62										
Airport - Section 3	18-Sep-2014 A	28-Feb-2015	62										
Airport Section Guideway 7-Pier Construction	18-Sep-2014 A	28-Feb-2015	62										
NTP	18-Sep-2014 A		6										
Mobilization	19-Sep-2014 A	01-Dec-2014	-1										
Foundations	02-Dec-2014	28-Feb-2015	62										
Drilled Shafts	02-Dec-2014	11-Feb-2015	29										
Pour Foundation Piers	16-Dec-2014	25-Feb-2015	39										
Transition Zone Rebar Cages	30-Dec-2014	28-Feb-2015	88										

CRITICAL PATH ISSUES:

- HDCC/CJ has submitted contract schedule, presently under review
- HDCC/CJ in process of permit applications.
- HDCC/CJ in process of submitting required safety, quality and work plans.
- HDOT Airport Car Rental Facility contractor is limiting work area availability for Guideway Pier contractor, adjusting the start of pier construction to begin January 2015.

WORK PROGRESS:

Activities this Month:

- Biweekly meetings to discuss coordination and key issues.
- Met with HDOT-Airport CONRAC project team to coordinate work scope and schedule access with the Kiewit CONRAC team.
- Attended weekly HDOT-Airport construction update meetings to monitor updates of Kiewit’s construction progress (CONRAC) at Honolulu Airport.
- Held CMS kick-off meeting with all HART/CE&I staff.
- Submitted Draft baseline and impact schedule for review.
- Attended and participated in the pre-NTP meeting with HDCC Project Team, CE&I (East) and HART. Met with HDCC Quality Manager and discussed required QAP and HART quality expectations.

Look Ahead:

- Finalize baseline schedule to include cost loading.
- Review Draft schedule (Adjusted January start date).
- Continue to respond to RFI’s and submittal reviews.

KEY ISSUES:

- Review and discuss HDCC/CJ concrete submittal and requested temperature variance.
- Confirmed proposed adjusted schedule with HDOT Airport and Kiewit due to CONRAC schedule.

D. Airport Station Group (ASG)

Contract No.: FD-440
Contractor: AECOM Technical Services, Inc., Final Design Consultant (Engineer of Record)
Contract Start Date: November 2012
Construction Docs Bid-Ready: May 15, 2015



Project Description: Architectural and engineering services for the design of four (4) transit stations situated along the Airport Guideway. The four (4) stations comprising the ASG contract are the Pearl Harbor Naval Base Station, the Honolulu International Airport Station, the Lagoon Drive Station, and the Middle Street Station.

COST INFORMATION:

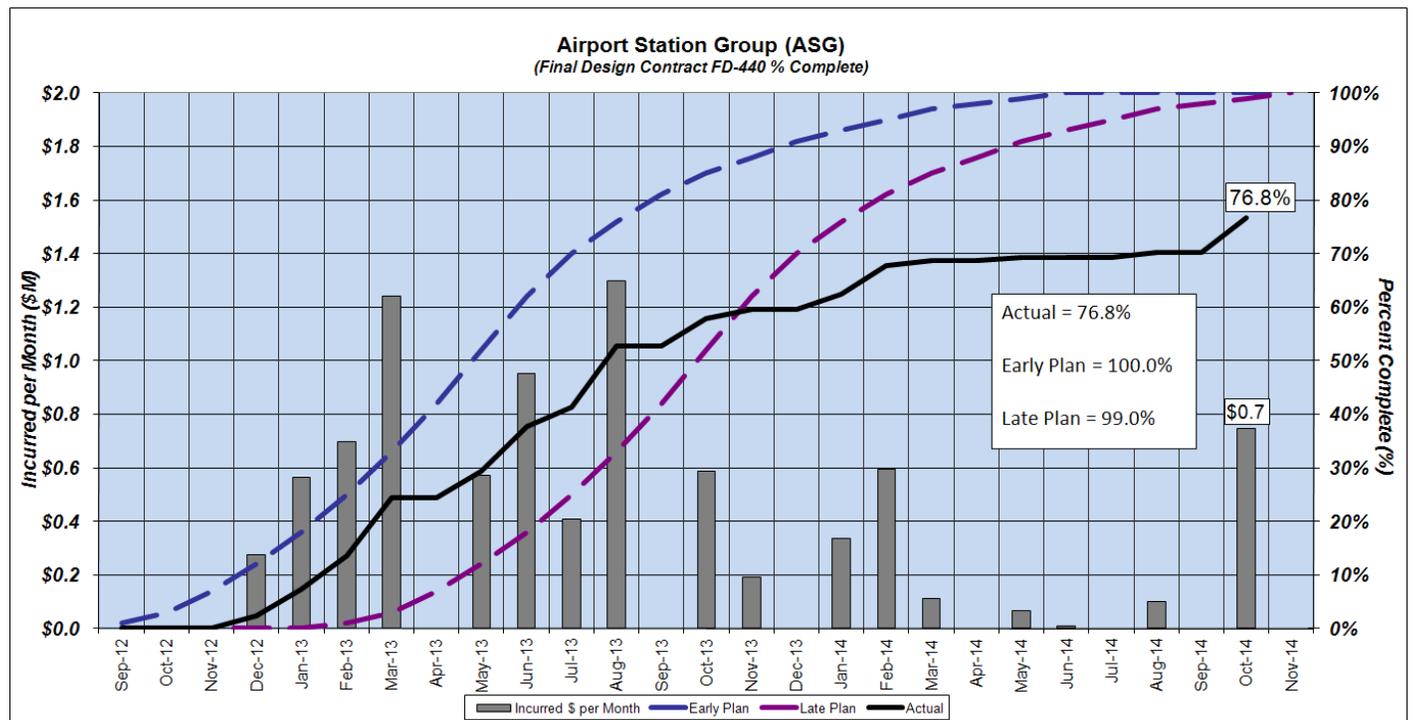
<u>Original Contract:</u> \$10,177,365	<u>Incurred-to-Date:</u> \$8,756,369
<u>Committed¹:</u> \$11,402,205	<u>Incurred in Oct.:</u> \$748,285
<u>Authorized²:</u> \$10,352,862 (90.8%)	

¹Commitment = Original contract value (not including contingency) with Design Allowance + executed Change Orders
²Total Authorized for Expenditure (AFE) = NTP dollar values + executed Change Orders

Disadvantaged Business Enterprise (DBE) Participation	
Actual DBE Participation:	\$234,761
DBE % Attained:	2.31%

October Notices to Proceed
None

October Change Orders	
Change No.	Amount (\$)
CA0002	\$790,000
CA0003	\$434,840
Cumulative to Date	\$1,224,840



Current figure reflects adjustments to components of the budget baselines.

The closeout of the ASG contract is currently behind schedule due to ongoing design coordination with third parties, pending rights-of-entry for design investigations, and design coordination with other HART contracts.

SCHEDULE:

October 2014 Update				Data Date: 31-Oct-14, Printed On: 24-Nov-14																		
Activity Name	Start	Finish	Finish Var	2014			2015				2016				2017				2018			
				Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2		
Airport - Section 3	02-May-11 A	28-Feb-18	0d																			
Airport Station Group	02-May-11 A	28-Feb-18	0d																			
Design - Airport Station Group	02-May-11 A	25-Apr-15	0d																			
Construction - Airport Station Group	20-Oct-15	28-Feb-18	0d																			
Pearl Harbor Station	20-Oct-15	15-May-17	0d																			
HNL Airport Station	03-Jun-16	28-Dec-17	0d																			
Lagoon Drive Station	21-Oct-15	16-May-17	0d																			
Middle Street Station	03-Aug-16	28-Feb-18	0d																			

CRITICAL PATH ISSUES:

- HART is overseeing coordination between final design consultant AECOM and critical third parties.
- HART is aggressively pursuing property access and using documented design assumptions where geotechnical data cannot be obtained to support the current design schedule.
- HART is proactively facilitating interface resolution with the CSC, Airport Guideway and EE contracts.

WORK PROGRESS:

Activities this Month:

- Interfacing design with the CSC, Airport Guideway, and EE contracts.
- Resolving third-party comments and pursuing approvals.
- Developing list of value engineering directives to reduce construction costs.

Look Ahead:

- Document design interface agreements.
- Obtain third-party approvals.
- Implement value engineering directives.

KEY ISSUES:

- Finalize design options for shielding of communications equipment from Electromagnetic Interference (EMI) due to the proximity of the AM radio tower near the Middle Street Station.
- Acquiring right-of-entry to Pearl Harbor Station site for geotechnical investigations to support design.

4.5 Section IV – City Center: Middle Street Transit Center Station to Ala Moana Center

A. City Center Section Guideway and Utilities

Contract No.: FD-530

Contractor: AECOM Technical Services, Inc., Final Design Consultant (Engineer of Record)

Contract Start Date: July 2012

Construction Docs Bid-Ready:

Guideway and Utilities: Request for Bid Issued July 2014, Procurement Pending

Project Description: The City Center Guideway and Utilities FD Contract (CCUG) consists of widening of portions of Kamehameha Highway and other streets to accommodate the guideway columns, provide bus stops, improve sidewalks and medians, related traffic signals, address environmental mitigation commitments, and other related improvements. Design of barrier walls attached to the guideway, and running rails.



COST INFORMATION:

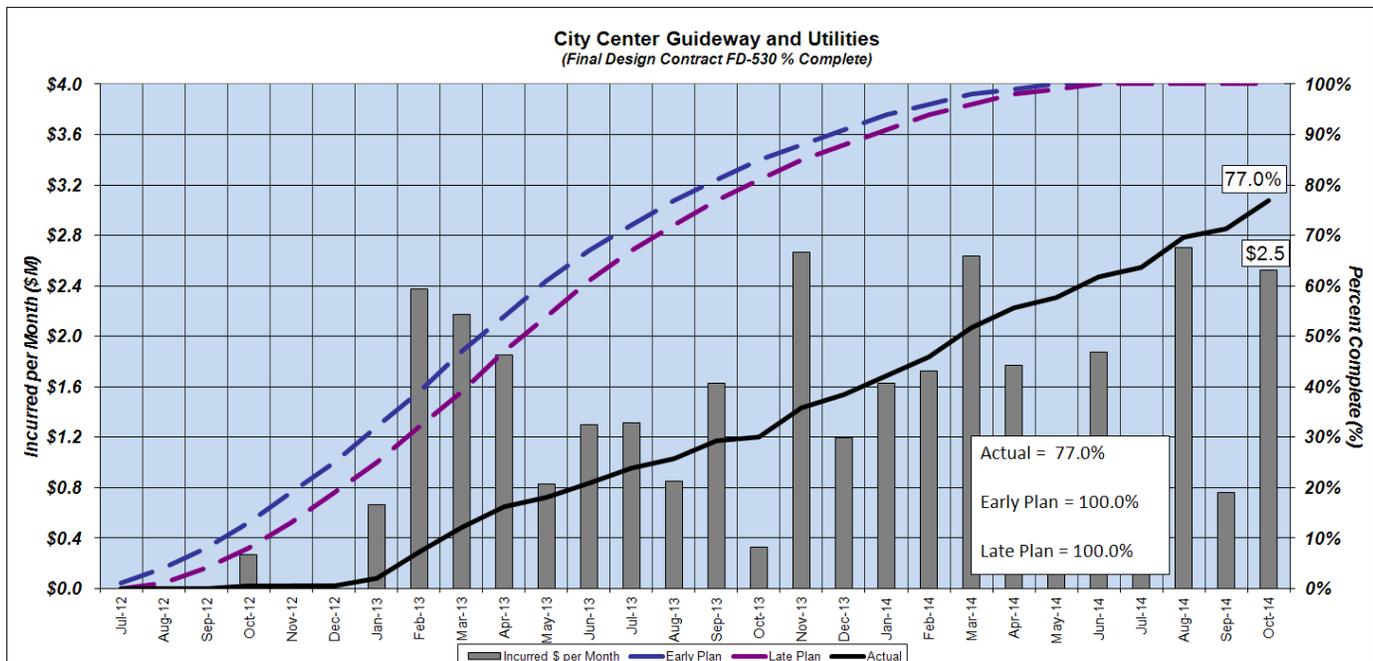
Original Contract:	\$43,948,220	Incurred-to-Date:	\$34,820,966
Committed ¹ :	\$45,231,023	Incurred in Oct.:	\$2,526,615
Authorized ² :	\$42,614,702 (94.2%)		

¹Commitment = Original contract value (not including contingency) with Design Allowance + executed Change Orders
²Total Authorized for Expenditure (AFE) = NTP dollar values + executed Change Orders

Disadvantaged Business Enterprise (DBE) Participation	
Actual DBE Participation:	\$191,227
DBE % Attained:	0.44%

October Notices to Proceed
None

October Change Orders/Amendments	
Change No./Amend	Amount (\$)
None	---
Cumulative to Date	\$1,282,803



Design was combined with the Airport Guideway and Utilities and was completed in June 2014 to support the Airport and City Center Guideway and Utilities Construction solicitation in July 2014. This procurement is now active.

SCHEDULE:

October 2014 Update				Data Date: 31-Oct-14, Printed On: 24-Nov-14 13:43																				
Activity Name	Start	Finish	Finish Variance	2014				2015				2016				2017				2018				
				Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	
Total	19-Aug-11 A	12-Jul-18	-20d																					
City Center Programmatic	01-Nov-11 A	06-Jul-15	-35d																					
City Center Permits	19-Aug-11 A	08-Dec-15	0d																					
Design - City Center Guideway & I	01-Jul-12 A	26-Nov-14	0d																					
Construction - City Center Guidew	03-Mar-15	12-Jul-18	-20d																					

CRITICAL PATH ISSUES:

- HART is overseeing coordination between final design consultant AECOM and critical third parties.
- HART is aggressively pursuing property rights and adjusting design where necessary to accelerate acquisitions.
- HART is proactively facilitating interface resolution with the CSC and DKSG contracts.

WORK PROGRESS:

Activities this Month:

- Coordinating with HDOT (Highway and Airport Divisions), utility companies, U.S. Navy, HECO, and other stakeholders.
- Interfacing design with other HART contractors.
- Pursuing rights-of-way and rights-of-entry.
- Geotechnical investigations and design.

Look Ahead:

- Document design interface agreements.
- Obtain third-party approvals.
- Conclude geotechnical investigations and design.

KEY ISSUES:

- Schedule for current active procurement is under executive review.
- Assessing potential impacts due to HECO’s position on weatherhead-to-weatherhead connections.
- Coordinating HECO evaluation of electrical lines along Dillingham and associated equipment for access.
- Assessing potential right-of-way impacts due to HECO requests.
- Acquiring rights-of-way and rights-of-entry, and pursuing partial demolition of select properties.

B. Dillingham and Kaka’ako Station Group (DKSG)

Contract No.: FD-550

Contractor: Perkins+Will (P+W), Final Design Consultant (Engineer of Record)

Contract Start Date: August 2013

Construction Docs Bid-Ready: Aug. 15, 2015

Project Description: Design eight stations for the fourth and final phase of the rail transit project that will connect Dillingham Blvd. to Ala Moana Center.



COST INFORMATION:

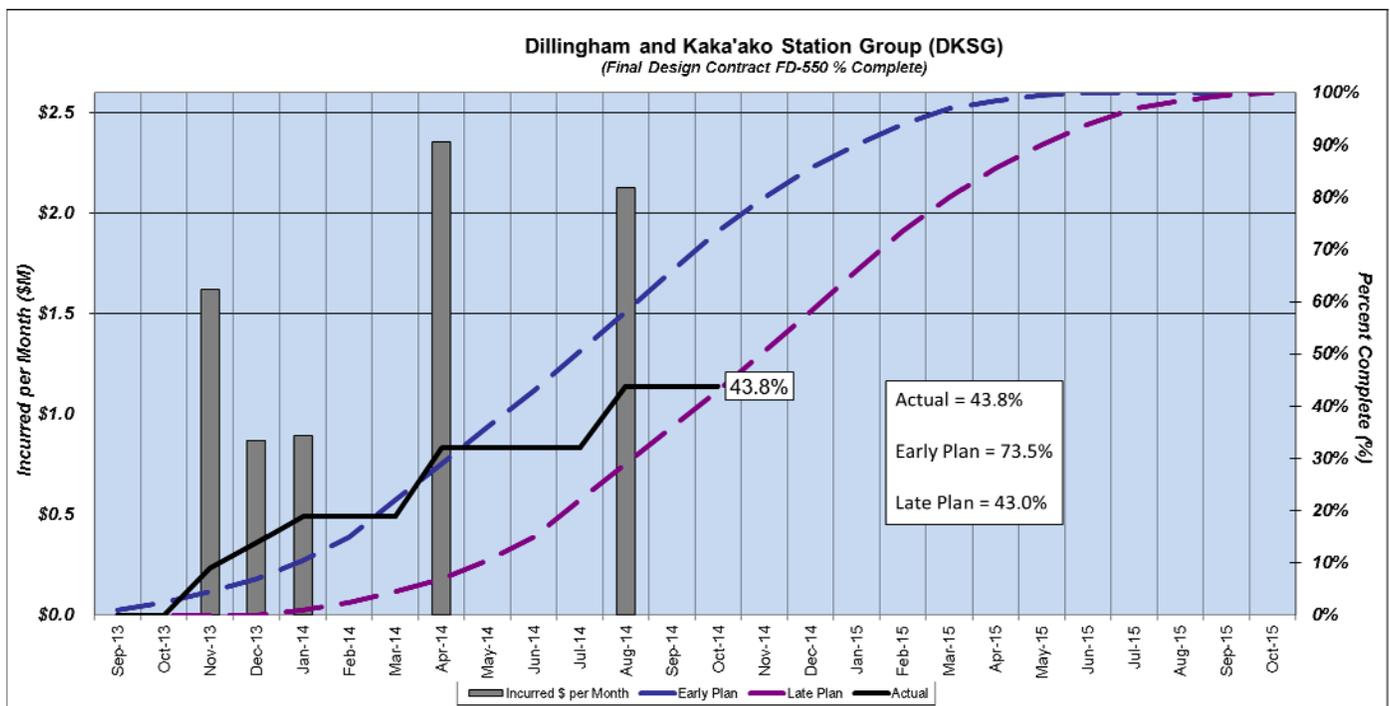
Original Contract:	\$18,321,918	Incurred-to-Date:	\$7,864,923
Committed ¹ :	\$17,936,332	Incurred in Oct.:	\$0
Authorized ² :	\$14,300,408 (79.7%)		

¹Commitment = Original contract value (not including contingency) with Design Allowance + executed Change Orders
²Total Authorized for Expenditure (AFE) = NTP dollar values + executed Change Orders

Disadvantaged Business Enterprise (DBE) Participation	
Actual DBE Participation:	\$0
DBE % Attained:	0%

October Notices to Proceed
None

October Change Orders	
Change No.	Amount (\$)
CA0002	(\$385,586)
Cumulative to Date	(\$385,586)



4.6 Project-Wide

A. Program Management Support Consultant-2 (PMSC-2)

Contract No.: MM-901

Contractor: InfraConsult LLC

Contract Start Date: March 2012

Contract Completion: March 2015 with option to renew contract for up to two additional years

Project Description: Provide program management support services in the areas of elevated guideway engineering, rail station design, construction management, project management, environmental planning, federal programmatic requirements, and other services for the Honolulu Rail Transit Project.

COST INFORMATION:

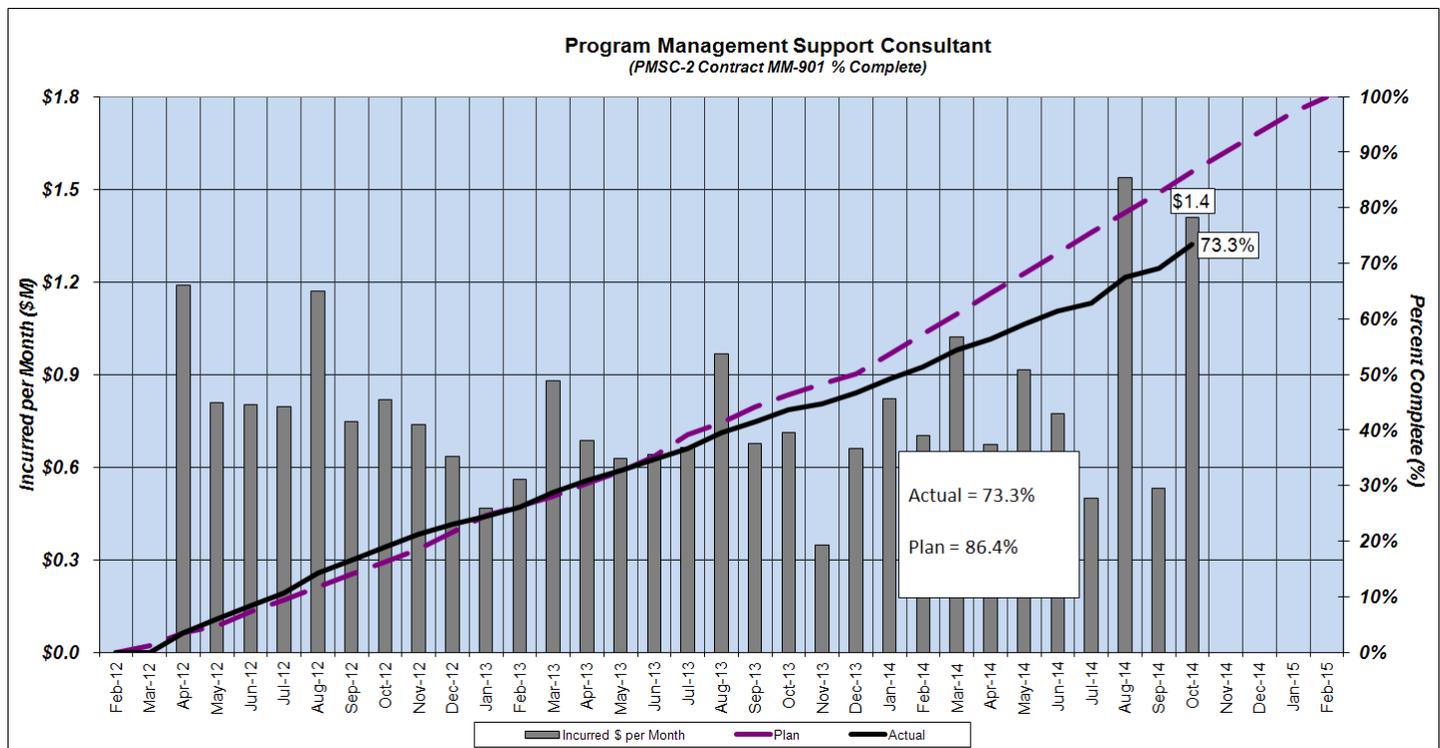
<u>Original Contract:</u> \$33,376,897	<u>Incurred-to-Date:</u> \$24,472,532
<u>Committed¹:</u> \$33,376,897	<u>Incurred in Oct.:</u> \$1,408,762
<u>Authorized²:</u> \$26,680,790 (79.9%)	

¹Commitment = Original contract value (not including contingency) + executed Change Orders
²Total Authorized for Expenditure (AFE) = NTP dollar values + executed Change Orders

Disadvantaged Business Enterprise (DBE) Participation	
Actual DBE Participation:	\$0
DBE % Attained:	0%

October Notices to Proceed
None

October Change Orders	
Change No.	Amount (\$)
None	\$0
Cumulative to Date	\$0



KEY ISSUES:

- No issues.

B. General Engineering Consultant III (GEC-3)

Contract No.: MM-913

Contractor: CH2M HILL

Contract Start Date: December 2013

Contract Completion: March 2019

Project Description: HART GEC III support services include: schedule and estimating, interface coordination and management, environmental and planning, design management services, and program management (aka GEC III contract management).

COST INFORMATION:

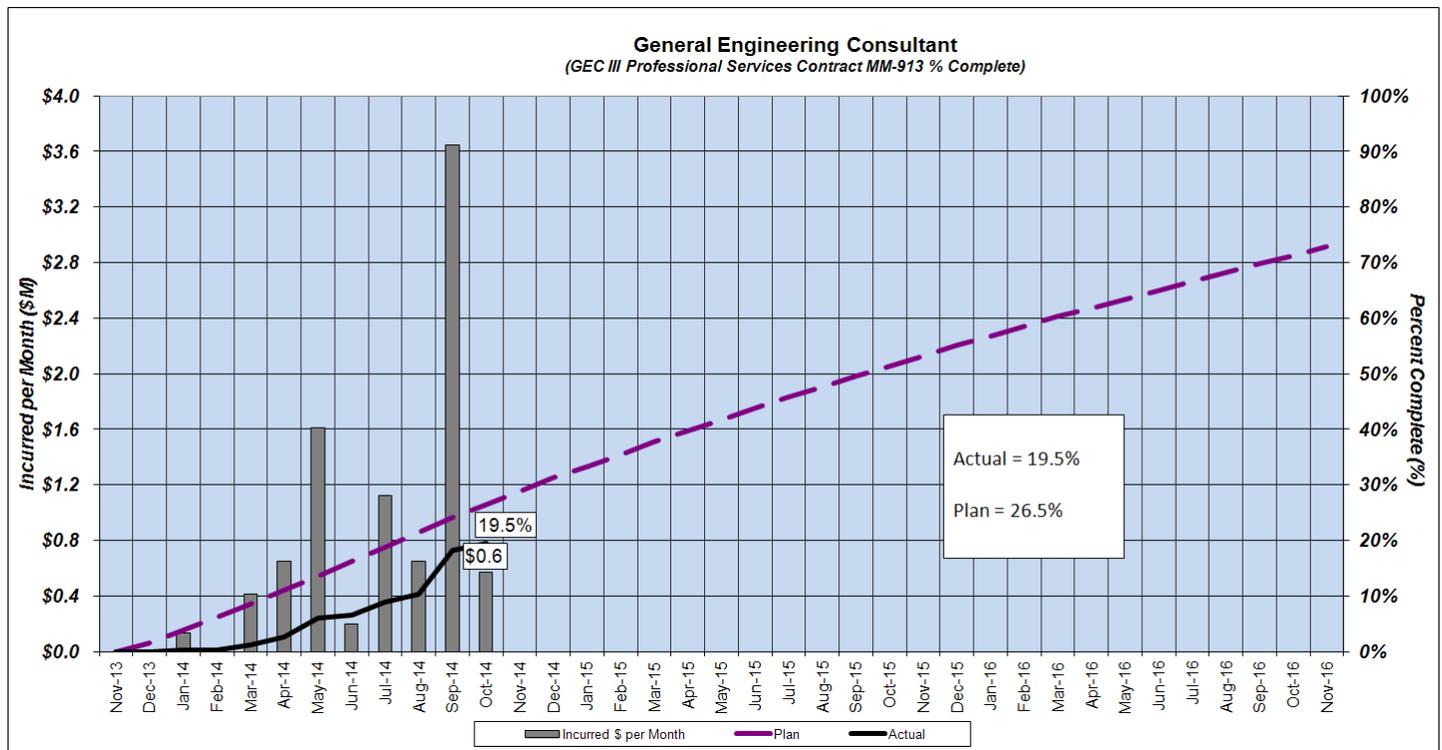
Original Contract: \$46,143,277	Incurred-to-Date: \$8,987,669
Committed ¹ : \$46,143,277	Incurred in Oct.: \$570,077
Authorized ² : \$13,078,208 (28.3%)	

¹Commitment = Original contract value (not including contingency) + executed Change Orders
²Total Authorized for Expenditure (AFE) = NTP dollar values + executed Change Orders

Disadvantaged Business Enterprise (DBE) Participation	
Actual DBE Participation:	\$610,549
DBE % Attained:	1.32%

October NTP/Encumbrance
None

October Change Orders	
Change No.	Amount (\$)
None	---
Cumulative to Date	\$0



KEY ISSUES:

- The level of effort required to administer and support environmental and planning activities is being closely monitored to ensure budget requirements are met.
- Design management support efforts are being extended in an effort to improve contract documents and lower overall project construction costs.

C. Construction Engineering & Inspection West Side Sections

Contract No.: MM-290

Contractor: PGH Wong Engineering, Inc.

Contract Start Date: January 2014

Contract Completion: January 2020

Project Description: The West Side Section CE&I (West CE&I) team is providing Construction Engineering and Inspection Services (CE&I) for the West Section, which includes aerial guideway, stations, maintenance & storage facility, and garage & transit center from East Kapolei in West O’ahu to Aloha Stadium, of the 20-mile Honolulu Rail Transit Project (H RTP) for the Honolulu Authority for Rapid Transportation (HART).

The West CE&I team provides HART staff augmentation for construction management and administration services to monitor and observe the design-build and design-bid-build construction work such that the projects are constructed in general conformity with the plans, specifications, and special provisions for the WOFH, KHG, MSF, WSSG, and PHGT contracts. These CE&I services also include: constructability review, resident engineering, on-site field oversight, project controls, scheduling review, change management, cost control, document controls, contract administration, construction cost estimating, environmental monitoring, surveying, material testing, interface coordination and claims analysis.

COST INFORMATION:

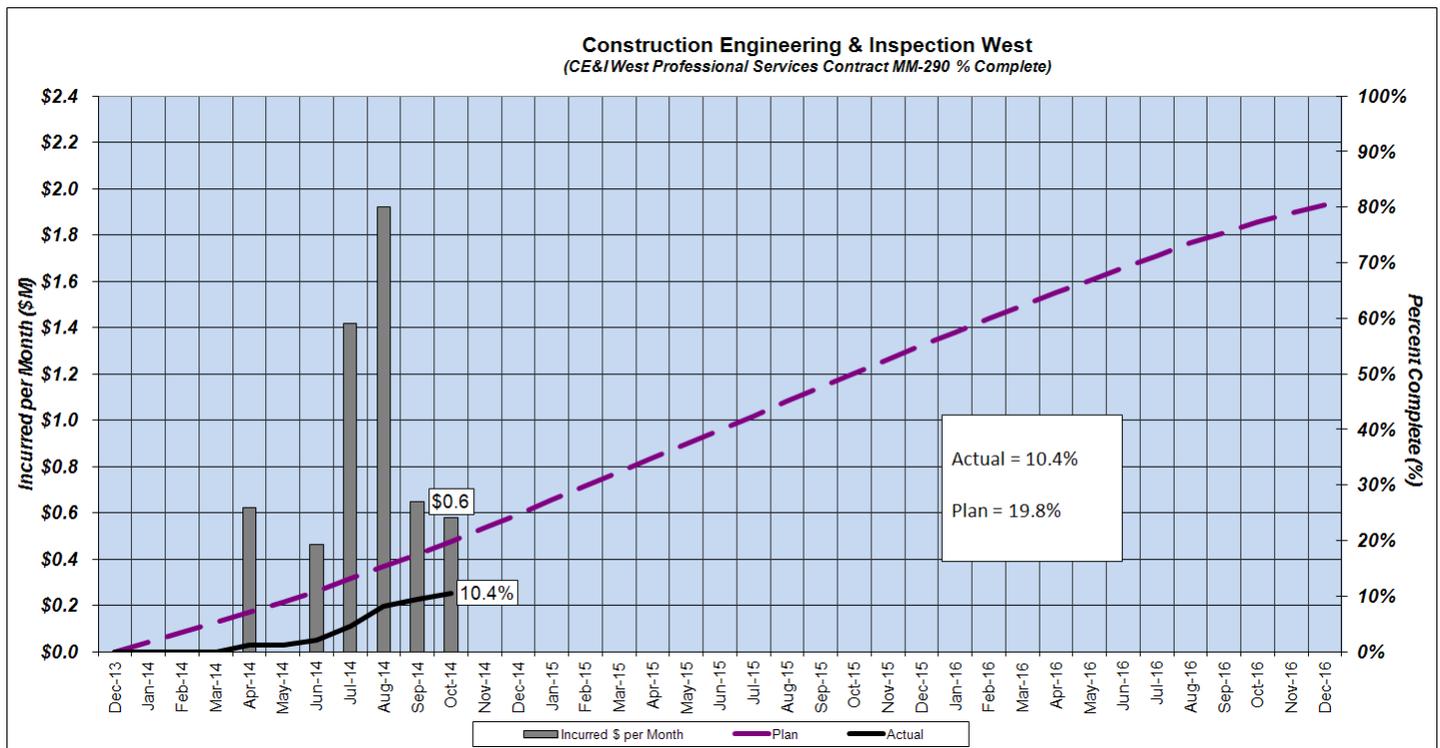
Original Contract:	\$54,232,480	Incurred-to-Date:	\$5,651,907
Committed ¹ :	\$54,232,480	Incurred in Oct.:	\$578,121
Authorized ² :	\$16,650,000 (30.7%)		

¹Commitment = Original contract value (not including contingency) + executed Change Orders
²Total Authorized for Expenditure (AFE) = NTP dollar values + executed Change Orders

Disadvantaged Business Enterprise (DBE) Participation	
Actual DBE Participation:	\$500,036
DBE % Attained:	0.92%

October Notices to Proceed
None

October Change Orders	
Change No.	Amount (\$)
None	---
Cumulative to Date	\$0



KEY ISSUES:

- No issues.

D. Construction Engineering & Inspection East Side Sections

Contract No.: MM-595

Contractor: URS Corporation

Contract Start Date: January 2014

Contract Completion: December 2018

Project Description: The URS team is providing Construction Engineering and Inspection Services (CE&I) for the East Section of the Honolulu Rail Transit Project (H RTP) for the Honolulu Authority for Rapid Transportation (HART). The H RTP will construct a 20-mile passenger rail system connecting East Kapolei in west O’ahu to Ala Moana Center in Honolulu’s dense urban core.

The URS team is providing services from the preconstruction phase through construction closeout. CE&I services include: constructability review, resident engineering, construction observation, project controls, scheduling, change management, cost control, document controls, contract administration, estimating, environmental monitoring, surveying, material testing, interface coordination, geographic information system (GIS) support and claims analysis. The primary role of the URS team is to inform the HART project manager of any significant omissions, substitutions, defects, and deficiencies noted in the work of the contractor and the corrective action that has been directed by HART to be performed by the contractor.

COST INFORMATION:

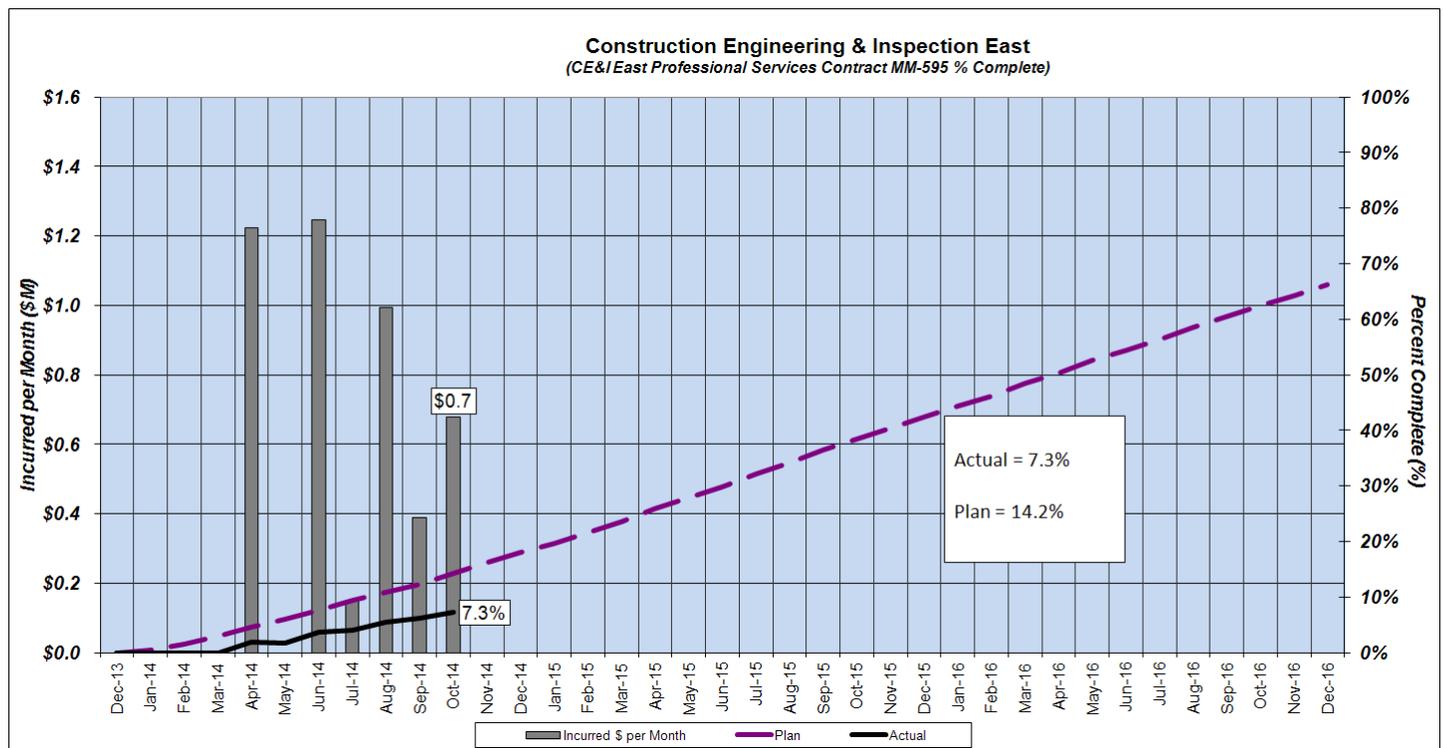
<u>Original Contract:</u> \$63,083,417	<u>Incurred-to-Date:</u> \$4,582,059
<u>Committed¹:</u> \$63,083,417	<u>Incurred in Oct.:</u> \$678,032
<u>Authorized²:</u> \$15,257,000 (24.2%)	

¹Commitment = Original contract value (not including contingency) + executed Change Orders
²Total Authorized for Expenditure (AFE) = NTP dollar values + executed Change Orders

Disadvantaged Business Enterprise (DBE) Participation	
Actual DBE Participation:	\$546,716
DBE % Attained:	0.87%

October Notices to Proceed
None

October Change Orders	
Change No.	Amount (\$)
None	---
Cumulative to Date	\$0



KEY ISSUES:

- HART is evaluating the recent AECOM acquisition of URS and possible impacts to the CE&I services.

E. Core Systems Contract Oversight Consultant

Contract No.: MM-962

Contractor: Lea+Elliot, Inc.

Contract Start Date: February 2014

Contract Completion: August 2019

Project Description: Provide professional services for design and construction management and testing/commissioning of the Core Systems Design-Build-Operate-Maintain (DBOM) Contract. The major systems of the Core Systems DBOM contract are the vehicles, the automated train control (ATC) system, the traction electrification system, the communications system, and the platform screen gates (PSGs). Services include review and approval of design submittals, manufacturing oversight, installation oversight, operation/maintenance design oversight and support, system testing/acceptance, and contract close-out.

COST INFORMATION:

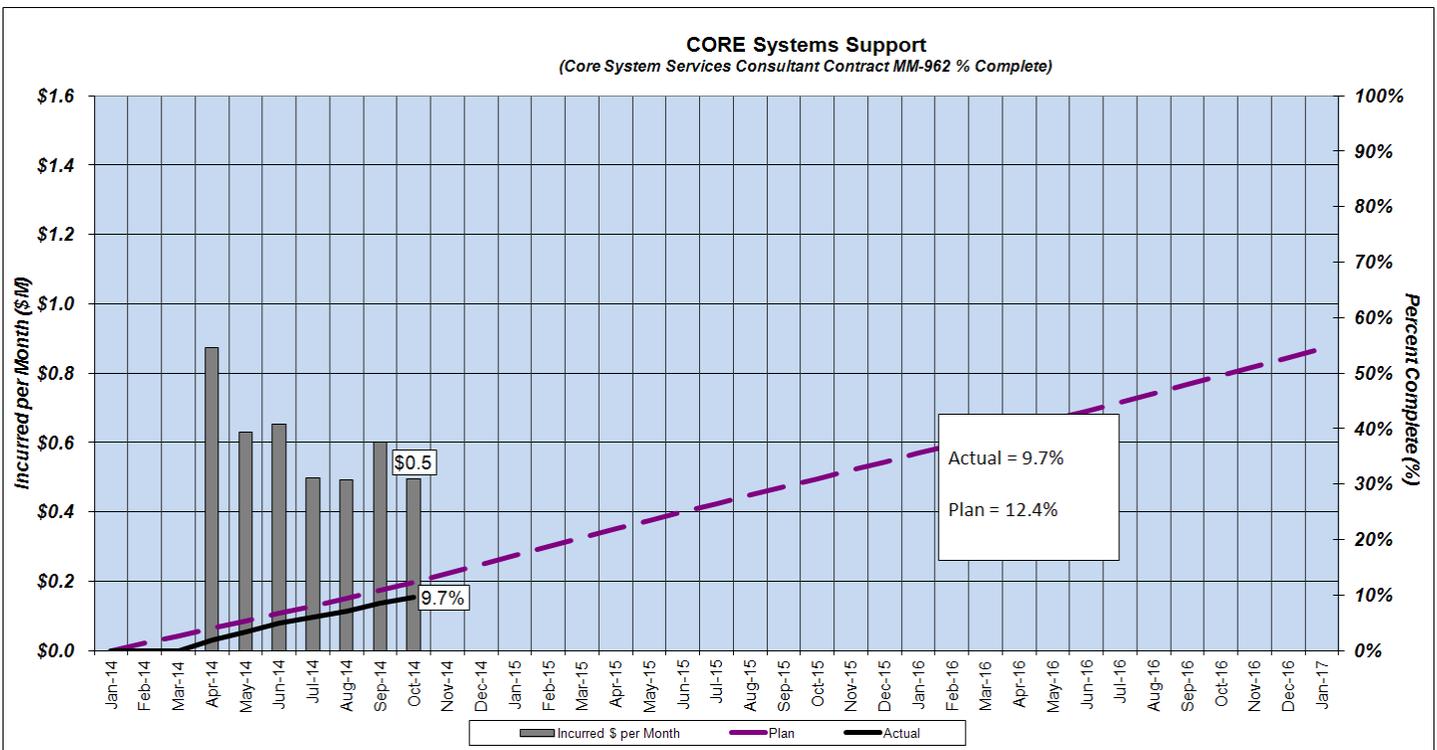
<u>Original Contract:</u> \$43,988,989	<u>Incurred-to-Date:</u> \$4,245,367
<u>Committed¹:</u> \$43,988,989	<u>Incurred in Oct.:</u> \$495,603
<u>Authorized²:</u> \$3,600,000 (8.2%)	

¹Commitment = Original contract value (not including contingency) + executed Change Orders
²Total Authorized for Expenditure (AFE) = NTP dollar values + executed Change Orders

Disadvantaged Business Enterprise (DBE) Participation	
Actual DBE Participation:	\$110,241
DBE % Attained:	0.25%

October Notices to Proceed
None

October Change Orders	
Change No.	Amount (\$)
None	---
Cumulative to Date	\$0



KEY ISSUES:

- Support oversight of Vehicle Carshell manufacturing.
- Coordination with other contractors on construction interface milestones.
- Review and acceptance of procedures for factory acceptance tests.
- Design review completion with respect to manufacturing fabrication and test schedule.

5 OVERALL PROJECT-WIDE ACTIVITIES

5.1 Permits

• Permits Submitted and In-Progress

- HART is waiting to receive approval of its Section 401 permit application for Waiawa Stream and Tributary from the Hawai'i Department of Health (HDOH). If this permit is not approved and issued before the end of January, construction in Waiawa Stream will not be allowed and delays will result. HART is actively and regularly communicating with HDOH to resolve this permitting issue as soon as possible.
- HART is waiting to receive approval of its Coastal Zone Management (CZM) Permit from the Department of Planning and Permitting for Waiawa Stream and Tributary. This CZM Permit will be approved immediately when the Waiawa Section 401 permit is approved.
- HART is waiting to receive approval of its Airport Community Noise Variance from the Hawai'i Department of Health (HDOH). This permit is required for night work for Airport section utilities, guideway construction and station construction.
- HART submitted an extension request of the WOFH-MSF Community Noise Variance to allow nighttime work activities until Dec. 31, 2016. The current Noise Variance was extended until April 2015 allowing HDOH more time to review the extension request. A consultant holds regular meetings with this agency to gather input and revise the application as needed.
- HART submitted the Clean Water Act Section 404 Certification permit application for Halawa and Moanalua Streams to the U.S. Army Corps of Engineers (USACE) on Nov. 17, 2014. HART has submitted these permits in anticipation of construction and recognizes these permits have potentially long review durations. HART will be closely monitoring the progress and working with HDOH during the review.

• Permits and Approvals Granted

- HART received approval of the community noise permit application for the West O'ahu Farrington Highway section and Maintenance and Storage Facility from the Hawai'i Department of Health (HDOH) on Nov. 12, 2014.
- HART received approval of its Section 404 permit application for Waiawa Stream and Tributary from the U.S. Army Corps of Engineers (USACE) on Nov. 13, 2014.
- The Fish and Wildlife Service (FWS) submitted an ecological assessment of the construction impacts along Waiawa Stream and Tributary. This assessment was needed as part of the USACE agency consultation. Without this assessment USACE would not have approved the provisional 404 permit for Waiawa Stream and Tributary. HART paid FWS approximately \$50K to perform to complete the assessment.
- HART received approval of the Municipal Separate Storm Sewer System (MS4) application for Airport section guideway construction from the Department of Planning and Permitting on Oct. 29, 2014.
- HART received approval of the Municipal Separate Storm Sewer System (MS4) application for City Center section guideway construction from the Department of Planning and Permitting on Oct. 29, 2014.

• Look Ahead

- HART will submit the Clean Water Act Section 401 permit application for Halawa and Moanalua Streams to the Hawai'i Department of Health (HDOH).
- HART will submit the Clean Water Act Section 404 permit application for Kapalama and Nuuanu Streams to the U.S. Army Corps of Engineers (USACE).
- HART will submit a Stream Channel Alteration Permit request for Halawa, Moanalua and Kalihi Streams.

5.2 Hawai'i Department of Transportation (HDOT) Agreements

• Activities this month

- Alignment-wide, the HDOT Traffic Management Consultant (contract MM-915) continues to review traffic signals, ITS and construction Maintenance of Traffic (MOT) for HDOT.
- Kiewit is responsible for maintenance of Farrington Highway and Kamehameha Highway as part of the Master Agreement.
- The HDOT Design Coordination Consultant for the WOFH section (contract MM-920), AECOM Technical Services, Inc. (AECOM), continues to review design submittals for HDOT.
- AECOM, the HDOT Design Consultant for the KHG section (contract MM-921), continues to review design submittals for HDOT.
- SSFM, the HDOT Design Coordination Consultant for the Airport and City Center Guideway sections (contract MM-922), is reviewing guideway design submittals for HDOT.

• **Look Ahead**

- Airport Joint Use and Occupancy expected to be executed December 2014.
- City Center Joint Use and Occupancy expected to be executed early 2015.

5.3 Utility Agreements

Figure 15. Utility Agreements Status

Utility Agreements Status Matrix									
Utility Owner	Status	WOFH		KHG		Airport		City Center	
		ESA	UCA	ESA	UCA	UCA	COMBINED ESA	UCA	
AT&T	Executed	5/11/11	12/20/11	5/18/12	AT&T has provided comments 4/11/14 (will include City Center)	Submitted draft to AT&T (will include City Center)	Agreement Executed		
	NTP	5/12/11	12/21/11						
Chevron	Executed	12/4/09		11/4/11					
	NTP	12/22/09		11/15/11					
Hawaiian Telcom	Executed	5/20/10	Executed 11/17/14	5/10/12	Submitted draft to HTI for review/ comments.	HTI agreement executed 9/27/13			
	NTP	6/14/10							
HECO	Executed	By Agreement with PB	4/20/12 (to be vacated once Design and Construction Services Agreements Executed)	7/12/12 (Agreement to be vacated once Design and Construction Services Agreements are Executed)		Airport Bridging Agreement (Expired 11/29/13) City Center Bridging Agreement (Expired 11/29/13)			
	NTP								
		Pre-Construction		Pre-Construction		Pre-Construction			
	Executed	10/30/13		10/4/13		n/a			
	Expired	11/29/13		11/29/13		n/a			
		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	
Oceanic Time Warner Cable	Executed	12/8/09	12/21/11	1/9/12	6/2/14	Oceanic has signed. Routing for execution.	4/4/2013		Draft is routing internally for review.
	NTP	12/22/09							
Pacific Lightnet/Wavecom	Executed	4/28/10	3/12/12	2/15/12					
	NTP	4/29/10	3/13/12	2/16/12					
Sandwich Isle Communications	Executed	5/20/10	Submitted draft to SIC	4/20/12	Submitted draft to SIC	Submitted draft to SIC			
	NTP	6/8/10							
Hawai'iGAS	Executed	12/18/09	6/30/11	6/1/12	4/14/14	8/20/14	9/27/13		Draft under review by Hawai'iGAS
	NTP	12/22/09	7/12/11						
tw telecom	Executed	12/2/09		2/14/12	No Scope – Oceanic to relocate for tw telecom for KHG	10/11/12		Draft is routing internally for review.	
	NTP	12/22/09		2/16/12					
Tesoro	Executed			2/15/12	Agreement executed 9/12/13	Agreement executed 9/3/13			
	NTP			2/16/12					

Legend: = Action this month
 = Not applicable

COR = Corporation Counsel
 ESA = Engineering Services Agreement

UCA = Utility Construction Agreement
 UFRCA = Combined Engineering and Construction Utility Agreement

WOFH

- The Hawaiian Telcom (HTI) Utility Construction Agreement (UCA) has been executed.

KHG

- Five of six UCA’s have been executed. The remaining UCA that needs to be executed is HTI.
- HART has sent a draft Construction Agreement (based on the recently executed WOFH UCA) to Hawaiian Telcom for review/comments.
- Looking Ahead: Execute HTI KHG UCA.

AIRPORT

- All engineering utility agreements for the Airport and City Center sections have been executed.
- AT&T Corp. is reviewing HART comments to the draft Construction Agreement. It is not necessary for this agreement to be in place for the Airport Segment utility construction.
- The Oceanic Time Warner Cable (OTWC) Utility Construction Agreement has been signed by OTWC, and is in routing for execution.
- Looking Ahead:
 - Execute Oceanic Airport UCA.
 - Execute HECO Airport UCA.

CITY CENTER

- All engineering utility agreements for the Airport and City Center sections have been executed.
- AT&T Corp. is reviewing HART comments to the draft Construction Agreement.
- HART has sent a draft of the Utility Construction Agreement to Hawai’iGAS Utility for review/comments.
- HART has prepared a draft of the Utility Construction Agreement to OTWC and is routing internally for review/comments.
- Looking Ahead:
 - Execute Hawai’iGAS City Center UCA.
 - Execute Oceanic City Center UCA.

5.4 Right-of-Way (data as of Nov. 24, 2014)

BUDGET

- \$68.0M was spent to acquire 33 properties. The budgeted amount for the 33 parcels was \$80.4M, resulting in a budget underrun of \$12.4M.
- \$4.0M has been expended to date for relocations.

ACQUISITIONS

Figure 16. Right-of-Way Status for the Parcels [data provided by Real Estate Acquisition database (READ)]

	No. of Parcels Impacted	Current No. of Parcels Needed	Appraisals In Process	Appraisals Completed	Letters of Offer Sent	Offers Accepted	Possession Granted For Condemnation	Agreements Executed	Acquisitions Completed	Relocations Completed	Properties Available for Contractor
Full Acquisition											
W.Oahu\Farrington	16	16		14	14	13	1	2	15	10	16
Kamehameha	3	3		3	3	3			3	1	2
Airport	5	5	1	4	5	5			4	1	1
City Center	20	20	1	17	18	14			13	7	7
TOTAL	44	44	2	38	40	35	1	2	35	19	26
Partial Acquisition											
W.Oahu\Farrington	12	4		2	2	1		2	1		1
Kamehameha	19	4		3	3		1		1		3
Airport	8	8		3	3			1	1		1
City Center	89	78	8	24	20	2					
TOTAL	128	94	8	32	28	3	1	3	3		5
Easement											
W.Oahu\Farrington	17	15	5					9	7		7
Kamehameha	5	5	1					8	3		3
Airport	44	40		5	3			22	22		22
City Center	41	33	1	2	2			2	2		2
TOTAL	107	93	7	7	5			41	34		34
GRAND TOTAL	279	231	17	77	73	38	2	46	72	19	65

During design development, the real estate requirements have been adjusted to accommodate the design refinements. Parcel requirements are adjusted as design is finalized.

WEST O'AHU/FARRINGTON

- Issues:
 - Expedite subdivision process with the Department of Planning and Permitting for TMKs 9-4-047-008 and 9-4-008-010.
 - Waiting for FTA approval since Aug. 27, 2014 for newly identified acquisitions not in the original FEIS. Will continue to follow-up with FTA for TMK 9-6-003-022.
 - Appraisal reports are not anticipated to be completed by Dec. 31, 2014. Will continue to work with the consultants and appraisers to minimize delays for TMKs 9-6-003-022 and 9-7-024-034.
- Look Ahead:
 - Close escrow and work with the Department of Planning and Permitting to expedite the subdivision process for TMK 9-4-047-008.
 - Acquisition for TMK 9-6-004-006 anticipated by July 31, 2015.

KAMEHAMEHA

- Look Ahead:
 - Proceed with escrow and expedite subdivision process with the Department of Planning and Permitting for TMK 9-7-022-008.
 - HART submitted a request for consent to enter for the guideway construction on Aloha Stadium property in October. HART appeared before the Aloha Stadium Board of Director's on Oct. 30, 2014. HART awaits response from the Stadium on this matter.

AIRPORT

- Issues:
 - Proceeding with eminent domain on TMK 9-9-003-066.
 - HART awaits response from the Navy regarding approval of 17 easements needed for construction. This is particularly critical to support the commencement of work on the Airport Utility contract. HART has regular communication with the Navy, and they indicate no issues.
 - Waiting for FTA approval since Aug. 27, 2014 for newly identified acquisitions not in the original FEIS. Will continue to follow-up with FTA. This pertains to multiple TMKs.
 - Appraisal reports are not anticipated to be completed by Dec. 31, 2014. Will continue to work with the consultants and appraisers to minimize delays. This pertains to multiple TMKs.
- Look Ahead:
 - Request FTA concurrence for TMK 1-2-013-021.
 - Receive ROE for TMKs 1-1-003-003, 1-1-003-004, 1-1-003-138 and 1-1-003-239.
 - Make offer for TMKs 1-2-013-020 and 1-2-030-021.
 - Send Letter of Intent for TMK 9-9-003-026.
 - Expedite subdivision process with the Department of Planning and Permitting for TMKs 1-2-003-017 and 1-2-003-106.

CITY CENTER

- Issues:
 - Owner selling to another private owner. Current owner, who wants right to consent, will assign negotiating rights to new owner. It is anticipated that acquisition will be delayed for TMK 1-1-016-007.
 - Proceeding with eminent domain on TMK 1-2-010-072.
 - Waiting for FTA approval since Aug. 27, 2014 for newly identified acquisitions not in the original FEIS. Will continue to follow-up with FTA. This pertains to multiple TMKs.
 - Make offer on TMKs 2-3-007-045, 1-2-009-016 and 1-2-009-098
 - Follow-up on offer and conduct negotiations for TMKs 1-2-003-014 and 2-1-031-030.
 - Appraisal reports are not anticipated to be completed by Dec. 31, 2014. Will continue to work with the consultants and appraisers to minimize delays. This pertains to multiple TMKs.

- Look Ahead:
 - Request FTA concurrence for multiple TMKs.
 - Start subdivision process for TMKs 1-2-003-106 and 1-2-003-017.
 - Awaiting documentation from owner that rentals are terminated and free and clear before escrow can close for TMK 1-2-009-017.
 - Meet to discuss operation options for the business for TMK 2-1-031-030.
 - Make offers for multiple TMKs.
 - Provide cost to cure analysis and acquisition (full or partial) options for TMK 1-2-003-014.
 - Start appraisal for multiple TMKs.

RELOCATIONS

Figure 17. Relocation Status for the Occupants (data provided by READ)

Section	Residential Relocations (a)	Business Relocations (b)	Not-For-Profit Relocations (c)	Total Relocations (a+b+c)	Relocation Assessment Completed	90-Day Notice Sent	30-Day Notice Sent	Relocations Completed for Occupants
W.Oahu\Farrington	18	6	1	25	11	12	8	24
Kamehameha		4		4	4	3	3	4
Airport		8		8	5	7		4
City Center	12	59		71	26	36	16	29
Grand Total:	30	77	1	108	46	58	27	61

WEST O’AHU/FARRINGTON

- Look Ahead:
 - Complete relocation for TMK 9-6-004-006.

AIRPORT

- Look Ahead:
 - Send Relocation General Information Brochure for TMK 1-1-016-017.

CITY CENTER

- Look Ahead:
 - Complete relocation for TMKs 2-3-004-069, 2-3-007-036, 1-5-007-021 and 1-2-009-018.
 - Start relocation on TMKs 2-3-007-033, 1-2-009-017, 1-1-016-017 and 2-1-031-030.

THIRD-PARTY AGREEMENTS

Figure 18. Third-Party Agreement Status

Third-Party Agreements				
Agreement	Status	Target	Section	Notes/Remarks
University of Hawai’i (UH) Master Agreement	Pending	December 2014	WOFH, KHG, City Center	Final negotiations are underway. Will secure Right of Construction as not to delay the project.
UH -West O’ahu (UHWO) Pre-Construction Right of Entry	Executed		WOFH	
UH - West O’ahu (UHWO) Construction Right of Entry	Pending	December 2014	WOFH	Issue: Pending HART and contractor negotiating ROE with UH.
Leeward Community College (LCC) Pre-Construction Right of Entry	Executed		WOFH	
Leeward Community College (LCC) Construction Right of Entry	Pending	December 2014	WOFH	Issue: Pending HART and contractor negotiating ROE with UH.

Third-Party Agreements				
Agreement	Status	Target	Section	Notes/Remarks
UH Urban Garden Pre-Construction Right of Entry	Executed		KHG	
UH Urban Garden Construction Right of Entry	Executed		KHG	Issue: Pending contractor negotiating ROE with UH.
D.R. Horton Agreement for Construction	Executed		WOFH	Allows for construction to proceed.
D.R. Horton Final Easement Agreement	Pending	December 2014	WOFH	Document in process with D.R. Horton.
Honolulu Community College (HCC) Pre-Construction Right of Entry	Executed		City Center	
Honolulu Community College (HCC) Construction Right of Entry	Pending	December 2014	City Center	Issue: Pending HART and contractor negotiating ROE with UH.
Department of Land and Natural Resources (DLNR) Right of Entry	Executed		WOFH	Right of entry is in place. Extension granted by DLNR Board.
Department of Land and Natural Resources (DLNR) Easement	Pending		WOFH	Easement documents in process.
Department of Land and Natural Resources (DLNR) Keehi Lagoon	Pending	December 2014	WOFH	Processing ROE.
Department of Education Master Agreement and Consent to Construct	Executed		WOFH	ROE is pending to allow entry for work to proceed; Master Agreement is pending.
Aloha Stadium / Department of Accounting & General Services (DAGS) Right of Entry	Executed		KHG	Limited ROE granted for staging for Kiewit for KHG Contract.
Aloha Stadium / Department of Accounting & General Services (DAGS) Right of Entry	Pending	December 2014	KHG	Construction ROE.
Aloha Stadium / Department of Accounting & General Services (DAGS) Easement	Pending	December 2014	KHG	Issue: Consent to enter submitted for consideration.
DHHL Master Agreement	Executed		WOFH, MSF	
DHHL Consent to Construct	Executed		WOFH, MSF	Consent to construct in place.
DHHL License	Executed		WOFH, MSF	
HDOT Master Agreement	Executed		WOFH	
HDOT Joint Use & Occupancy (JU&O) Sub-agreement	Executed		WOFH	
HDOT Master Agreement for KHG, Airport and City Center	Executed		KHG, Airport, City Center	
HDOT JU&O Sub-agreement	Executed		KHG, Airport, City Center	
HDOT SOA MOU	Executed		Program	
OCCC/Hawai'i Department of Public Safety Agreement Dillingham Blvd	Pending	January 2015	City Center	Working towards acceptance of re-striping plan for parking configuration.
HI Community Development Agreement (HCDA)	Pending	January 2015	City Center	Awaiting final design requirements for the guideway.
DAGS/HHFDC	Pending	December 2014	City Center	Processing.
U.S. Navy	Pending	December 2014	Airport	Easements are being processed by the Navy. Navy will not charge for all licenses and easements. Exemption granted. Issue: Request for temporary ROE for the Land Court parcels denied.
U.S. Navy/General Services Administration (GSA)	Pending	N/A	Airport	Fee taking is being processed by the Navy.
U.S. Post Office Honolulu Processing Center	Pending	December 2014	Airport	Finalized design. Offer made.
Federal Court House/GSA	Pending	December 2014	City Center	Negotiations underway with GSA.

Third-Party Agreements				
Agreement	Status	Target	Section	Notes/Remarks
Pacific Guardian Center	Pending	December 2014	City Center	Awaiting final design requirements for the guideway and Downtown station.
Howard Hughes Corporation – Joint Development Agreement	Pending	December 2014	City Center	Awaiting final design requirements for the guideway and Kaka’ako station.
Sam House Development LLC – Joint Development Agreement	Pending	December 2014	City Center	Awaiting final design requirements for the guideway and Ala Moana Center station. Issue: May be scheduled for eminent domain.
GGP Ala Moana LLC – Joint Development Agreement	Pending	December 2014	City Center	Awaiting final design requirements for the guideway and Ala Moana station.

6 MANAGEMENT AND ADMINISTRATIVE UPDATES

6.1 Safety and Security

Figure 19. Safety and Security Issues Overview

Overview of Safety and Security Issues		
Period/Date	Number	Comments
Q1 2014	10 in Q1 2014	January (0), February (5), March (5)
Q2 2014	16 in Q2 2014	April (3), May (3), June (10)
Q3 2014	12 in Q3 2014	July (4), August (4), September (4)
Oct. 2014	8 in October	
Nov. 2014	11 in November	
2014	57 to date in 2014	

- **Activities this month**

- HART reviewed submittals from KKJV, AHJV, DKSG, AECOM, WOFH, WOSG, and MSF for compliance and technical specifications.
- HART staff continued to meet with HDOT biweekly to address FTA, HDOT, and HART concerns.
- Continued to hold Sensitive Security Information (SSI) Implementation working group meeting.
- Participated in the monthly Joint Traffic Management System (JTMS) steering committee meeting.
- Participated in the weekly HART Core Systems staff meeting.
- Conducted the monthly Fire Life Safety Working Group.
- Continued work in evaluating submittals.
- Participated in biweekly Project Interface meeting.
- Participated in biweekly Safety and Security Certification Working Group (SSCWG) meeting.
- SSI Program to be presented to HART staff, as needed.
- Continued to meet with the fire and police departments to review design packages for compliance.
- Participated in multi-agency MOT meeting on Fridays to better plan MOT activities for the guideway.
- Developed a HART Safety Hazard Tracking Log to address Safety and Security concerns across the project.
- Biweekly meeting to address Hazard Tracking Log.
- Safety and Security has been actively participating in meetings concerning the Line Speed, the AM Radio Tower, MOU with Hawaiian Electric, Track Obstruction Detection, the Pinchpoint at the West Yard Lead, and several other critical hot topics.

- **Look Ahead**

- Continue to hold safety meetings with contractors, particularly AHJV, committees and staff.
- On-going discussion of security concerns with the Transportation Security Administration (TSA), Honolulu Police Department (HPD), Honolulu Fire Department (HFD) and Department of Public Safety (DPS), and of emergency plans with Emergency Responders and Emergency Management.
- Continue to meet and review design issues with contractors.
- Continue to process CIL/CEL's from all contracts.
- Continue development of the Safety and Security Management Plan, Safety and Security Information Procedures, and Safety and Security Certification Plan.
- Safety and Security staff will continue to provide SSI training to employees that need to be trained.
- Continue to work with the Department of Emergency Management concerning Hurricane Drill and Tsunami event.

Project-Wide Contracts						
Contract	Event Type	Total Number of Events since 1/1/2007	Total Number of Events for November 2014	Loss Type	Date	Event Description
Archaeological Inventory Survey	Environment	1	0			
	Loss or Damage	1	0			
	Near Miss	3	0			
	*Reportable Occupational Injury/Illness	0	0			
	**Loss Time Occupational Injury/Illness	0	0			
	Road/Vehicle - Driving	3	0			
	Security	3	0			
MM-905 General Engineering Consultant (EIS/PE)	Road/Vehicle - Driving	1	0			
MM-910 General Engineering Consultant II (Final Design & Construction)	Road/Vehicle - Driving	1	0			

*Reportable incidents: Requires OSHA to be notified within 8 hours, and includes the death of an employee or hospitalization of three or more employees.
 **Loss Time Injury: Time away from work due to injury.

West O'ahu / Farrington Section Contracts						
Contract	Event Type	Total Number of Events since 1/1/2007	Total Number of Events for November 2014	Loss Type	Date	Event Description
DB-120 W. O'ahu/ Farrington Highway Guideway	Environment	1	0			
	Loss or Damage	7	0			
	Near Miss	14	1	No Loss	Nov 07, 2014	Chain broke while hanging re-bar cage.
	*Reportable Occupational Injury/Illness	0	0			
	**Loss Time Occupational Injury/Illness	3	1	Loss Time	Nov 21, 2014	Employee stepped backwards, tripped over a 4x4 piece of wood and fell breaking his left lower leg.
	Road/Vehicle - Driving	11	2	No Loss	(a) Nov 03, 2014 (b) Nov 19, 2014	(a) Citizen hit personal vehicle on Kiewit employee. (b) Citizen hit pole bracing protecting conduit.
	Security	20	1	No Loss	Nov 04, 2014	Alleged gunshot-like noise heard from a passing car.
	Service Strike	7	0			

*Reportable incidents: Requires OSHA to be notified within 8 hours, and includes the death of an employee or hospitalization of three or more employees.
 **Loss Time Injury: Time away from work due to injury.

Maintenance & Storage Facility						
Contract	Event Type	Total Number of Events since 1/1/2007	Total Number of Events for November 2014	Loss Type	Date	Event Description
DB-200 Maintenance & Storage Facility	Environment	4	0			
	Near Miss	2	0			
	Road/Vehicle - Driving	4	0			
	Security	6	0			

*Reportable incidents: Requires OSHA to be notified within 8 hours, and includes the death of an employee or hospitalization of three or more employees.
 **Loss Time Injury: Time away from work due to injury.

Kamehameha Section Contracts						
Contract	Event Type	Total Number of Events since 1/1/2007	Total Number of Events for November 2014	Loss Type	Date	Event Description
DB-320 Kamehameha Highway Guideway	Environment	2	0			
	Loss or Damage	6	0			
	Near Miss	4	0			
	Road/Vehicle - Driving	12	5	No Loss	(a) Nov 07, 2014 (b) Nov 08, 2014 (c) Nov 18, 2014 (d) Nov 18, 2014 (e) Nov 25, 2014	(a) Citizen vehicle hit a Kiewit arrow board. (b) Citizen drove car into a trench and hit a gas line. (c) Citizen drove into a KIWC dry utility trench. (d) A contractor's shadow truck was rear ended by a citizen's vehicle, while setting up a lane closure. (e) Employee backed an F-150 into the bucket of a 930 loader.
	Security	9	1	No Loss	Nov 08, 2014	Citizen pulled a hand gun out and threatened an employee.
	Service Strike	10	0			

*Reportable incidents: Requires OSHA to be notified within 8 hours, and includes the death of an employee or hospitalization of three or more employees.

**Loss Time Injury: Time away from work due to injury.

Airport Section Contracts						
Contract	Event Type	Total Number of Events since 1/1/2007	Total Number of Events for November 2014	Loss Type	Date	Event Description
FD-430 Airport Section Guideway & Utilities	Environment	3	0			
	Loss or Damage	1	0			
	Near Miss	1	0			
	*Reportable Occupational Injury/Illness	0	0			
	Security	1	0			
	**Loss Time Occupational Injury/Illness	2	0			
	Service Strike	2	0			

*Reportable incidents: Requires OSHA to be notified within 8 hours, and includes the death of an employee or hospitalization of three or more employees.

**Loss Time Injury: Time away from work due to injury.

City Center Section Contracts						
Contract	Event Type	Total Number of Events since 1/1/2007	Total Number of Events for November 2014	Loss Type	Date	Event Description
FD-550 Dillingham and Kaka'ako Station Group	Near Miss	1	0			

*Reportable incidents: Requires OSHA to be notified within 8 hours, and includes the death of an employee or hospitalization of three or more employees.

**Loss Time Injury: Time away from work due to injury.

6.2 Quality Management

- **Activities this month**

- HART Quality Assurance (QA) staff holds a weekly meeting to discuss overall Project QA/Quality Control (QC) issues with consultants, contractors, subs and internal staff. The QA staff also reviews the Weekly To Do List.
- Continued updating and implementing the 1) QA Audits and 2) Environmental Compliance Audits Schedules for 2014.
- Continued updating and reviewing appropriate Project Baseline Plans and Procedures due to new policies, re-organization, process improvement and lessons learned from the internal audits.
- Conducted biweekly Quality Task Force (QTF) meetings with CE&I, contractors and consultants’ QA teams to discuss the status of: design and construction activities; procurement activities; inspection and testing; Non Conformance Report (NCRs); Corrective Actions (CARs) and Preventative Actions (PARs); quality compliance; various process improvements; and Buy America compliance.
- Reviewing Core Systems Contract Oversight Consultant (Lea+Elliott) QAP (Revision A).
- Continued participation on the interface management plan.

HART NCR Log		
Total NCRs Issued To Date	CLOSED	OPEN
30 (Audits)	26	4
1 (Construction)	0	1

CSC

- Participated in the pre-activity meetings for Pre-Shipment, Inspection and Testing of: Transformer-Rectifier Verification Test, KEMA Laboratories, Chalfont, PA; and Multiple Purpose Vehicle (MPV), West Granite Falls, MN.
- Perform QA Audit of Ansaldo Breda in Italy (Reggio Calabria, Pistoia, and Naples) on Dec. 10-17, 2014.

Elevator Escalator

- Reviewed and approved Schindler Elevator Corporation (Schindler) revised QAP (Revision 0)

WOFH

- Participated in the pre-activity meeting: MSE 251 Wall.
- Monitoring the KIWC and CE&I Inspection and Test Plan (ITP) updates and its implementation. KIWC submitted their revised ITPs for CE&I and HART QA designation of Witness Points and Hold Points.
- HART QA issued NCR 14-000-QA1 on Span 67 with the damaged Segments 11 and 12. KIWC is preparing a Replacement Plan for the damaged segments, which needs to be submitted and approved by HART. The NCR was added in the HART NCR Log under construction.
- Reviewing Remedial Plan submitted by KIWC for replacing the damaged Segments 11 and 12 on Span 67.
- Perform combined QA and Buy America Audit on Jan. 15-16, 2015.

WOSG

- Monitoring URS QA/QC activities. Resumed Quality Task Force Meetings.
- Perform QA Audit on Jan. 29-30, 2015.

FHSG

- Monitoring URS QA/QC activities. Resumed Quality Task Force Meetings.
- Perform QA Audit on Dec. 2-3, 2014.

MSF

- Continued participation in pre-activities meetings for construction scheduled activities: Embedded Tracks Installation; Sub-ballast and sub-drain construction; Wall Framing and Gypsum installation; and Concrete Multiple Unit (CMU) Construction.
- Perform combined QA and Buy America Audit on Jan. 21-22, 2015.

KHG

- Monitoring the KIWC and CE&I Inspection and Test Plan (ITP) updates and its implementation. KIWC submitted their revised ITPs for CE&I and HART QA designation of Witness Points and Hold Points.

KHSG

- Perform QA Audit on March 2-3, 2015.

Airport Section Guideway and Utilities

- Issued QA Audit Report to AECOM on audit held on September 3.

Airport Utilities Construction

- Continued reviewing revised Draft QAP submitted by Nan, Inc. including OTS review of the QAP with Quality Manager.

Airport 7-Pier Construction

- No QA activities during this reporting period.

ASG

- Issued QA Audit Report to AECOM on audit held on September 3.

City Center Guideway and Utilities

- Issued QA Audit Report to AECOM on audit held on September 3.

DKSG

- Issued Constructability Reviews performed by AECOM for reference only.
- **Look Ahead**
 - Continue mentoring and training personnel on approved Project Plans and Procedures.
 - Continue QA/QC and Environmental Compliance monitoring and oversight of contracts executed to date.
 - Update and implement the 2014: QA and Environmental Audit Schedules.
 - Prepare 2015 Combined Management System Audit Schedule.
 - Follow up on and close corrective and preventative actions on all NCRs and Observations issued to all contracts.
 - Review and approve contractor/consultant QAPs, Inspection and Test Plans (ITPs) and implementing procedures (new and updates).

6.3 Buy America Compliance (49 CFR 661 and 49 CFR 663)**Core Systems**

- **Activities this month**
 - AHJV/AB have started making adjustments on the HART-established Buy America Compliance Matrix (BACM) for E Cars and started populating the BACM for the M Cars based on the components and subcomponents procured on contracts to date. However, both BACMs for E Cars and M Cars cannot be finalized until the Change Order for the 2 Car Consist (E-E) and 4 Car Consist (E-M-M-E) has been agreed to by HART and AHJV/AB.
 - Continued discussion on procurement status and Buy America updates with AHJV (ASTS/AB):
 - E Cars (Breda): 69.3% Pre-Award Audit US contents – July 2014 Monthly Report shows 71% US contents. The higher value includes the proposed manufacturing of Truck Frames and Bolsters at the Finmeccanica (DRS) facilities in West Plains, MO; no changes during this reporting period.
 - M Cars (Breda): Started populating BACM based on procured components and subcomponents to date.
 - Train Control System Wayside Portion (ASTS USA): 90% US contents HART-approved BACM; no changes during this reporting period.
 - Supervisory Control and Data Acquisition (SCADA) System (ASTS USA): 92.8% US contents HART-approved BACM; no changes during this reporting period.

- Traction Electrification System (Siemens): 69.9% US contents HART-approved BACM; no changes during this reporting period.
- Communication System Wayside Portion (Alcatel-Lucent): 80.7% US contents HART-approved BACM; no changes during this reporting period.
- MOW Multi-purpose Vehicle (Modern Track Machinery, Inc. [MTM]): 100% US contents HART-approved BACM; no changes during this reporting period.
- MOW 15 Ton Flatbed Trailer (MTM): 100% US contents HART-approved BACM; no changes during this period.
- MOW Rail Grinder Equipment (MTM): 69.3% US contents HART-approved BACM; changed to **70.0 %** (+0.7%). No changes during this reporting period.
- MOW Tamper (MTM): 85% US contents HART-approved BACM; changed to **88%** (+3%).
- MOW Geometry Car (MTM): 81.7% (+9.8%) US contents HART-approved BACM; no changes during this reporting period.
- MOW High Reach Lift Truck (MTM): 100% US contents HART-approved BACM; no changes during this period.
- MOW Rail Car Mover (MTM): 100% US contents HART-approved BACM; no changes during this reporting period.
- MOW Enclosed Trailer (MTM): 71% US contents HART-approved BACM; changed to 73.9% (+2.9%); no changes during this reporting period.
- Fire Detection & Alarm System Components (Johnson Controls): 100% US contents HART-approved BACM; no changes during this reporting period.
- Uninterrupted Power Supply (UPS) System: 73.6% US contents HART-approved BACM.
- Platform Screen Gates System, a Train Control Subsystem (Stanley Access Technologies, LLC): 96.4% US contents HART-approved BACM; no changes during this reporting period.

- **Look Ahead**

- Monitoring AHJV/AB Buy America compliance.
- Perform interim Buy America compliance audit of Ansaldo Breda in January 2015, provided that the Change Order is agreed to by HART and AHJV/AB.

Construction

- **Activities this month**

- Monitored DB contractors' compliance to Buy America requirements.
- Update and implement the 2014: Combined Management Systems Audit Schedule.
- Prepared 2015 Combined Management System Audit Schedule.
- Continue reviewing MSF KONE Bridge and jib cranes for Buy America compliance with FTA Region IX. Rejected crane rails made in China supplied by KONE.

- **Look Ahead**

- Perform combined QA and Buy America Audit of KIWC (WOFH and KHG) and KKJV (MSF) during the first quarter of 2105.

Utilities

- **Activities this month**

- All utilities are Buy America compliant.

- **Look Ahead**

- Monitoring utilities' Buy America compliance.

6.4 Disadvantaged Business Enterprise (DBE)

- **Activities this month**

- \$20,232,416 = total dollar participation for all DBEs on all HART contracts from 9/24/07 to 11/30/14
 - 6.4% = DBE utilization on total disbursed FTA funds received to date (\$20,232,416 divided by \$316,312,417)
 - 1.15% = DBE utilization to date on total Project FTA funds (\$20,232,416 divided by \$1,763,903,901)

*Total DBE Participation = \$20.2M
(previous report = \$19.8M)*

Figure 20. DBE Participation this Month

DBE Participation in November		
DBE Firm	Contract Number	Participation
Bow Construction Management	SC-HRT-1400050 MM-290	\$26,433
Element Environmental	SC-HRT-1400050 MM-290	\$69,828
LKG-CMC	SC-HRT-1400051 MM-595	\$3,669
FIC, LLC	SC-HRT-1400051 MM-595	\$60,808
Lawson & Associates	SC-HRT-1400061 MM-964	\$53,222
ADS System Safety Consulting	SC-HRT-1400061 MM-964	\$91,488
LKG-CMC	SC-HRT-1400049 MM-962	\$14,694
AMR Estimating Services	SC-HRT-1400027 MM-913	\$56,688
The Solis Group	SC-HRT-1400027 MM-913	\$82,919
TOTAL FOR THE MONTH		\$459,749

Note: For a full listing of DBE participation to date, please see Appendix E.

6.5 Planning and Environment

- **Activities this month**

- Programmatic Agreement Activities:
 - The Kāko’o Programmatic Agreement Manager position will be rebid using a new scope developed by HART and Programmatic Agreement Signatory and Consulting Parties.
 - The Queen Street Supplemental Archaeological Inventory Survey (SAIS) was completed on Nov. 5, 2014. The AIS report for this work, when completed, shall be submitted to the State Historic Preservation Division for their review and comment.
 - Historic Preservation Fund (HPF) award letters were sent to eight awardees previously selected by the HPF committee. These letters serve as a notice to proceed on improvement projects to the awardees and detail the process of proper documentation to receive reimbursements for the work completed.
 - National Register of Historic Places (NRHP) Nomination Forms were submitted for the Hōlau Market/Ai-Goto Building in Chinatown and for the two Makalapa Housing districts.
 - Discussion regarding HART’s NRHP Nomination for Mother Waldron Park was deferred by the Hawai’i Historic Places Review Board (HHPRB) quarterly meeting on Saturday, Nov. 22 due to an error in the posted agenda. HART’s nomination will be deferred to the next meeting scheduled for February.
- Planning, Environmental, and Cultural Activities:
 - HART presented guideway plans to the Hawai’i Community Development Authority (HCDA) in the process of consultation for the Kaka’ako Community Development District (KCDD) on Nov. 6, 2014.

- HART arranged the first in a series of stakeholder meetings at Aloha Stadium to discuss access to areas around the planned Aloha Stadium Station on Nov. 7, 2014.
- HART participated in the City and County of Honolulu Department of Planning and Permitting's (DPP) Transit-Oriented Development (TOD) Symposium on Nov. 22, 2014.
- HART continues to coordinate project-wide tree relocations through consultation with The Outdoor Circle (TOC).
- HART continues to coordinate with city Department of Transportation Services (DTS) and operations contractor O'ahu Transit Services (OTS) to collaborate on bus-to-rail service design leading up to and following the anticipated first operating segment opening in 2018.
- HART established a weekly sustainability email encouraging green and efficient practices in the workplace called "Mindful Mondays."

- **Looking Ahead**

- Conduct regular monthly HART/Kāko'o meeting with consulting parties.
- Conduct regular monthly O'ahu Island Burial Council (OIBC) and cultural descendant meetings.
- Conduct regular monthly bus-rail integration planning meetings with city DTS.

6.6 Risk Management

Risk management is integral to all phases leading up to project delivery including: planning, design, construction, systems testing, system operation start up, and ultimately to project construction closeout. Risk management is the systematic process of identifying, analyzing, and responding to risk in a timely manner. Risk assessments are performed to identify, assess, prioritize, manage and mitigate risk exposure, and develop prudent contingency plans. The Project Risk Register (RR) is the depository for all risks identified for the Project. Every month, risks contained in the RR are reviewed to confirm risks are appropriately identified, identify new risks, and close out risks that no longer pose an issue.

A major goal for HART and the FTA is to complete the Project within budget and on schedule. The primary strategy of risk management is to maintain a reserved contingency balance throughout the life of the Project that is acceptable to HART and the FTA, and in turn reassures the public that the Project will be completed on time and on budget. Effective management of project risks is necessary to significantly increase the likelihood of delivering a successful project.

Maintaining the RR includes assessing the potential for a risk to happen as well as the cost and schedule impacts should the risk occur in isolation. The cost and time impacts to the Project are assessed based on a "most likely scenario." Construction of the Project involves systematically using equipment and materials through a variety of means and methods to create a quality transit system. Therefore, not all risks (known and unknown) will occur with the same frequency or probability as estimated in isolation. In addition, risks can be eliminated due to design best practices as well as through the implementation of safe alternative means and methods of construction to avoid the occurrence.

This report includes a listing of the top program wide risks which is an aggregate of the individual contract risks of the same category. Key metrics are subject to change as more is learned about the risks and as additional expertise is brought in to implement various aspects of the Project. By actively managing the RR, HART is able to actively manage the Project and ensure it is built on time and on budget for the tax payer and future passengers.

Figure 21. Risk Matrix

Risk Matrix					
Legend	Low (1)	Med (2)	High (3)	Very High (4)	Significant (5)
Probability	< 10%	10%<50%	> 50%	75%><90%	>90%
Cost	< \$250K	\$250K<=\$1M	\$1M<=\$3M	\$3M<=\$10M	>\$10M
Schedule	< 1 Mths	1><3 Mths	3><6 Mths	6><12 Mths	> 12 Mths
Rating	< =3	3.1-9.49	> =9.5		

The risk matrix is used to score and rank identified risks. The rating is the average cost and schedule impact score multiplied by the probability score.

Figure 22. Top Project Risks

Top Risks November 2014								
Current Risk ID	Contract Package	Risk Description	Probability	Prob Rating	Cost Impact	Time Impact	Nov. '14 Risk Rating	Oct. '14 Risk Rating
96.09	West Side Station Group	Market - Procurement results in higher pricing than FFGA estimate assumptions.	100%	5	5	4	22.5	22.5
111.05	Airport Guideway	Market - Estimates may be low for remaining guideway based on WOFH and KHG relative to construction market escalation.	90%	5	5	4	22.5	12
111.06	City Center Guideway	Market - Estimates may be low for remaining guideway based on WOFH and KHG relative to construction market escalation.	90%	5	5	4	22.5	12
110.06	City Center Guideway	Right of Way - Real Estate market could rebound before purchase of all needed properties, greatly increasing cost of property and delaying construction if legal actions are pursued.	75%	4	5	4	18	18
1.16	Pearl Highlands Garage	Market - Escalation rates may be higher than forecasted (ie. Labor, equipment and materials).	75%	4	5	4	18	6
75.03	West O'ahu/ Farrington Highway Guideway	ROW - Late turnover of ROW to contractor may result in delays to interim opening.	90%	5	4	3	17.5	17.5
170.04	Kamehameha Highway Guideway	Construction - Production rates of Fixed Facility contracts are lagging planned results.	75%	4	4	4	16	7
20.08	Core Systems Contract	Interface - Delays in access milestones of MSF, stations, or guideway interfaces to systems results in delays to core systems contractor substation completion milestones.	100%	5	4	2	15	15
20.04	Kamehameha Highway Guideway	Interface - Late delivery of/or acceptance of civils, stations, or systems interface to guideway results in change orders.	75%	4	3	4	14	8
83.06	City Center Guideway	Utilities - Due to court case, delay of utility easement identification for City Center Guideway may result in a delay of ROW acquisition and ultimately the start of construction.	75%	4	4	3	14	14
106.13	Airport Station Group	ROW - Right-of-way acquisition at Pearl Harbor may take longer due to Navy NEPA/Section 10b process requirements.	75%	4	3	4	14	14
35.06	City Center Guideway	Geotech - Due to court delays, limited geotechnical information was available at the preliminary engineering phase. Additional costs for redesign may be incurred.	75%	4	4	3	14	14
129.13	Airport Station Group	Third Party - Potential delays at Pearl Harbor Station due to community actions concerning historical site.	75%	4	2	5	14	14
145.09	West Side Station Group	Procurement - There may be delays associated with re-procurement and access dates impacting cost and/or schedule.	75%	4	3	4	14	14
150.09	West Side Station Group	Design - Combining three sets of three station packages may result in higher pricing.	85%	4	3	4	14	14

Risks are placed in order based on highest risk rating for the month. The Top Risks list represents risks that could have a major impact on the Project and require additional focus by management. There are other high rated risks that are not listed and are in the process of being mitigated.

Figure 23. Risks Added

Risks Added in November 2014							
Risk ID	Contract Package	Risk Description	Probability	Prob Rating	Cost Impact	Time Impact	Risk Rating
175.08	Core Systems Contract	Systems - Possible need for additional substations to address power quality issues on HECO Power Grid.	5%	1	5	5	5
174.01	Project Wide	Structural - Possible HART resource limitations to provide oversight and engineering support during construction.	50%	2	2	2	4
176.08	Core Systems Contract	Interface - Possible delays to CSC contractor due to shared access conflicts with fixed facility contractors.	40%	2	1	1	2

Figure 24. Risks Deleted

Risks Deleted in November					
Current Risk ID	Contract Package	Risk Description	Comments	Risk Rating	
				Nov. '14	Oct. '14
1.03	West O'ahu/Farrington Highway Guideway	Market - Escalation rates of commodities (concrete, freight, lumber and steel) may be higher than forecasted.	Negotiated Contract Change Order to resolve issue prior to new procurement process.	15	15
85.06	City Center Guideway	Design - Final design results in new locations for columns and utilities and results in additional AIS changes, influenced by late geotechnical data collection and analysis.	Design work is nearly complete and AIS trenching is complete.	10	10
1.04	Kamehameha Highway Guideway	Market - Escalation rates of commodities (concrete, freight, lumber and steel) may be higher than forecasted.	Negotiated Contract Change Order to resolve issue prior to new procurement process.	10	10
32.06	City Center Guideway	Environmental - During excavation for new utilities iwi kūpuna may be found, which would require revised alignment for utility relocations if iwi are preserved in place.	AIS trenching during design has been completed.	10	10
109.04	Kamehameha Highway Guideway	Environmental - Ambiguity of management of contaminated soil disposal may result in additional costs to HART.	Issues of materials handling have been resolved.	9	9
11.04	Kamehameha Highway Guideway	Utilities - Agreements with all utility owners are not yet in place, and subsequent agreements may expose HART to unforeseen costs and schedule impacts.	No substantial issues as amendments are being circulated for signatures.	6	6
142.13	Airport Station Group	Design - Potential delay to construction of Lagoon Drive Station due to late acquisition of FAA clearance for station construction in approach zone.	Design issues have been incorporated.	6	6
162.09	West Side Station Group	Design - No rise analysis is incomplete for Waipahu and Pearl Highlands Station. Once completed, there could be additional mitigation requirements imposed.	Design work is complete, permit has been filed and 404 permit has been approved. 401 Permit is still pending and covered under a specific risk item.	6	9
81.06	City Center Guideway	Environmental - Earth disturbing activities suspended pending approval of Project wide AIS delays design completion and results in additional costs due to escalation.	Duplicate risk is covered in another risk item in the register.	5	5
99.09	West Side Station Group	Third Party - Review cycles between HDOT and HART reviews are not synchronized and may result in discrepancies with design and/or review comments.	HART notification process will add clarity regarding comment period.	5	5
100.03	West O'ahu/Farrington Highway Guideway	Third Party - Resolution of Kaloi channel issue could result in additional costs to repair the channel conditions.	HART addressed HDOT concerns with application of "best management practices" and responded with letter of clarification.	4	4
9.03	West O'ahu/Farrington Highway Guideway	Third Party - HDOT Use and Occupancy Agreement with utility owners could delay utility relocations in the state ROW.	Agreement is fully executed for construction.	4	4
9.05	Airport Guideway	Third Party - HDOT Use and Occupancy Agreement with utility owners could delay utility relocations in the state ROW.	Agreement is fully executed for construction.	4	4
100.09	West Side Station Group	Third Party - Resolution of Kaloi channel issue could result in additional costs to repair the channel conditions.	HART addressed HDOT concerns with application of "best management practices" and responded with letter of clarification.	4	4

Risks Deleted in November					
Current Risk ID	Contract Package	Risk Description	Comments	Risk Rating	
				Nov. '14	Oct. '14
32.04	Kamehameha Highway Guideway	Environmental - During excavation for new utilities, iwi kūpuna may be found requiring revised alignment for utility relocations on Kamehameha Highway, which is likely to incur additional costs and possible schedule delays from Contractor.	AIS trenching during design has been completed.	2	2
32.05	Airport Guideway	Environmental - During excavation for new utilities, iwi kūpuna may be found requiring revised alignment for utility relocations on the Airport segment which are likely to incur additional costs and possible schedule delays from Contractor.	AIS trenching during design has been completed.	2	2
32.09	West Side Station Group	Environmental - During excavation for new utilities, iwi kūpuna may be found. This may require revised alignment for utility relocations if iwi are preserved in place.	AIS trenching during design has been completed.	2	2
32.03	West O'ahu/Farrington Highway Guideway	Environmental - During excavation for new utilities, iwi kūpuna may be found requiring revised alignment for utility relocations on Farrington Highway, which are likely to incur additional costs and possible schedule delays from Contractor.	AIS trenching during design has been completed.	1	2

• **Notes of Significance Since Last Month's Report:**

- AIS trenching during design for iwi kūpuna is complete.
- HDOT concerns regarding channels will be addressed through application of Best Management Practices.
- Kamehameha Highway Guideway production rates are behind schedule.
- Construction market escalation rates are exceeding forecast, possibly exceeding FFGA budget.
- Overall Delivery and Procurement Strategy is being re-evaluated based on WSSG bid results.

Note: Risks by Contract Package and a Comparison of Risk Ratings can be found in Appendix F.

6.7 Community Outreach

• Activities this month

- HART’s public outreach team participated in more than 20 meetings, presentations and events this month. Those events included the City’s Transit-Oriented Development Symposium, which drew more than 300 attendees. In addition, HART also presented project updates for several business organizations, including the West O’ahu Economic Development Association (WOEDA) conference, the Building Owners and Managers Association and the Hawai’i Transportation Association.

To date, HART’s outreach team has participated in:

- *1,738 presentations and events*
- *938 Neighborhood Board meetings*

Figure 25. HART officials held an on-site media briefing to raise public awareness regarding safety.



HART Board Chairman Ivan Lui-Kwan joined HART Executive Director and CEO Dan Grabauskas at a media briefing to discuss guideway construction that involves crossing the H-1/H-2 merge. Safety for motorists and work crews was the key message stressed by HART’s leadership team.

Figure 26. HART participates in the City’s TOD Symposium.



HART’s outreach team participated in the City’s Transit-Oriented Development Symposium with an informational booth for the more than 300 symposium attendees.

• Construction Outreach

- With the high-visibility of the balanced cantilever work, part of building the system’s guideway across the H-1/H-2 merge, HART’s media team held an on-site briefing for the media to prepare motorists for the lane closures related to the upcoming work. In addition, HART partnered with Kiewit, the guideway builder, on a series of public service announcements to raise public awareness.
- Traffic along the Kamehameha Highway portion of the alignment has generated complaints from the area’s businesses. HART’s outreach team led a canvassing effort, in partnership with Kiewit, to provide businesses with information and to listen to some of their concerns regarding the impact of the work in their area. A large meeting specifically for businesses along this portion of the alignment has been scheduled for early December.
- Getting the word out about traffic changes and road closures remained a high priority, with regular traffic briefings with media, weekly news releases, monthly reports to HART’s board of directors at public meetings, weekly eblasts, and regular posts on Facebook and Twitter.

• Community Input

- HART’s public information team responded to more than 100 inquiries and requests in November that came in via the agency’s website, email and 24-hour hotline. Inquiries this month primarily focused on construction activities, including traffic, general project questions and job opportunities.

• Look Ahead

Coming in December:

- Public service announcements regarding safety and traffic changes for the balanced cantilever work begin airing.
- Tailored briefings for businesses will be held in the Kamehameha Highway area to provide information on construction, programs for businesses, and to receive feedback.
- HART highlights its first mile of guideway and track with an on-site media event.

6.8 Staffing

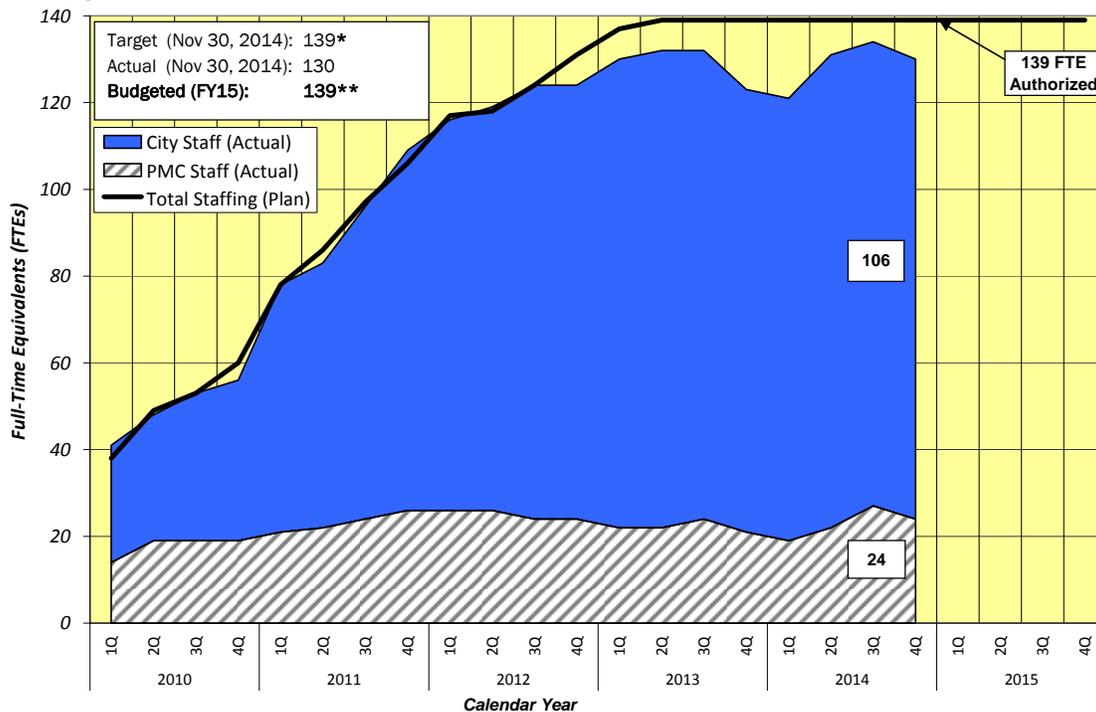
Figure 27. Staffing Activities

Staffing Activities				
Title	Group	New/Existing HART position (City or PMC)	Position Status	Start Month
Executive Management				
Senior Clerk (Receptionist)	Executive Management	Existing (City)	Recruiting via Civil Service	
Design and Construction				
Assistant Project Manager	Construction (KHG)	New (City)	Recruiting	
Assistant Project Manager	Construction (WOFH)	New (City)	Recruiting	
HECO Coordinator	Design & Construction	Existing (City)	Creating Position/Recruiting	
Budget and Finance				
Budget Analyst	Budget and Finance	New (City)	Recruiting	
Project Director				
Deputy Director of Procurement & Contracts	Procurement & Contracts	Existing (City)	Creating Position/Recruiting	
Transit Contracts Manager* (2)	Contract Administration and Change Management	Existing (City)	Recruiting/Interviewing	
Planning, Utilities, Permits & Right-of-Way				
Planner V* (Land Use)	Planning	Existing (City)	Recruiting via Civil Service	
Planner III* (Environmental)	Planning	Existing (City)	Recruiting	
Right-of-Way Agent/Planner	Right-of-Way	New (City)	Recruiting	
Administrative Services				
Personnel Clerk	Administrative Services	New (City)	Creating Position via Civil Service	
Civil Rights				
Human Resources Specialist	Equal Opportunity	Existing (City)	Filled	Nov

*Per qualifications.

HART currently receives direct project support in centralized functions from the following city departments: Honolulu Police Department (HPD), Department of Information Technology (DIT), Department of Budget and Fiscal Services (BFS), Department of Design and Construction (DDC), Corporation Counsel (COR) and Department of Human Resources (DHR); and from the State of Hawai'i Department of Transportation (HDOT) on Consultant Services Contracts.

Figure 28. Project Staffing (Actual vs. Planned)



* In accordance with Staffing and Succession Plan Rev 5 (Under Revision)
 ** 139 City positions authorized in FY 2015 HART Operating Budget

The actual number of employees reflects employees hired during this period as well as employees who left the project from both HART and the PMC staffs.

Note: For a project organization chart, see Appendix G.

APPENDICES

Appendix A. Action Items

The following are Action Items for HART and/or the PMOC, which are reviewed and discussed on a monthly basis.

Action Items						
Item No.	Item	Responsible Party	Date Identified	Date Due	Date Completed	Status
1	Schedule PMP & QMP compliance audit	PMOC	Nov-13	TBD		Open
2	Provide information and resolution on HECO's 50-foot offset requirement	HART	Mar-14	Jan-15		On-going– Boom truck equipment was delivered in September 2014 and field testing began in October 2014. HECO evaluating site specific locations where truck may not fully address their requested clearance.
3	Process Kiewit submission of first claim for materials escalation due to AIS/NTP delay	HART	Mar-14	Aug-14	Nov-14	Closed – HART settled basis for paying escalation costs and received Board of Director's approval for change orders in November 2014.
4	Resolve issue with AHJV regarding cost savings associated with change to 4-car trains	HART	Mar-14	Dec-14		Open – in progress.
5	Resolve HECO issue with Davis-Bacon requirements	HART/FTA	Mar-14	Dec-14		Open – HECO waiver is pending. HART provided MOU to PMOC.
6	HART to provide updated Cost Estimates: - WSSG - Airport/City Center GW	HART	Oct-14	Dec-14		Open
7	Updates resulting from Risk Refresh:					
	PMOC to schedule a conference call with HART to discuss RCMP	PMOC	Oct-14	Dec-14		Open
	Risk Register Breakout Session	HART	Jul-14	Dec-14		Open– Scheduled for December 2014.
	Procurement strategy	HART	Aug-14	Dec-14		
	Re-baseline MPS	HART	Apr-14	Feb-15		Open
	Update the RCMP (including Hold Points and Secondary Mitigation Measures)	HART	Sept-13	Feb-15		Open
	Re-baseline budget	HART	Apr-14	Feb-15		Open
	Re-baseline Financial Plan	HART	Apr-14	Feb-15		Open
8	Provide Geotechnical Data Report for Airport and City Center Guideway	HART	May-14	Dec-14		On-Going – HART to provide GDRs to PMOC as they are completed for the 3 zones. HART to provide in December 2014.
9	HART to provide plan to address conflict of interest with AECOM acquisition of URS	HART	Jul-14	Dec-14		Open
10	HART QAM to review constructability and design QA of remaining bid packages	HART	Jul-14	Dec-14		Open – In progress
11	HART to provide response letter to HDOT letter regarding safety and security CELs/CILs	HART	Oct-14	Nov-14		Open
12	Provide updates on Buy America status with Utility contracts	HART	Nov-14	Jan-15		
13	Provide feedback on the Monthly Progress Report	PMOC	Nov-14	Dec-14		PMOC to provide HART with feedback on the contents of the HART Monthly Progress Report. HART will make adjustments to the content for the December 2014 report.

Appendix B. Project Contingency Management General Background and Clarifications

The FFGA Baseline Budget for Project Contingency is approximately \$643.6M and consists of the following elements:

- 1) Unallocated Contingency – Reserve contingency to address unknown changes to the Project and not currently allocated to a particular work package.
- 2) Project Allocated Contingency – Contingency allocated to each work package to address potential uncertain changes within each respective work package.
- 3) Allowance – A reserve designated for Final Design contracts and committed under the contracts.

Current Contingency Balance = \$531.8M

Current Known Changes Contingency = \$0M

The \$643.6M Baseline Budget for Total Project Contingency does not include amounts for Known Changes yet to be finalized at the time the Bottom-Up Estimate (BUE) was prepared.

As the project progresses, budget transfers will be executed, moving budgeted project scope and budgeted contingencies as appropriate to reflect either a realized cost savings, cost overruns, or a transfer of scope. It is expected that project contingency will continue to be drawdown as the overall design is further developed, risks are identified, and construction progress continues to advance. The following list details ways in which project contingency can either increase or decrease:

- 1) The budgeted amount for a contract package is either lower or higher than the actual executed contract amount. Contingency will increase if the budgeted amount is higher than the actual contract amounts which results in a budget surplus, and vice versa if the budgeted amount is lower.
- 2) Increase of a contract amount through the execution of a change order or contract amendment. Contingency is decreased and transferred to the appropriate SCC.
- 3) Transfer of work scope, e.g. utility relocation, between contract packages through a change order. The scope value from one contract is decreased and transferred to Contingency. Contingency is then decreased by the same scope value and transferred to the other contract. Contingency is used as a “holding account” in this instance.
- 4) Revisions to contract packaging. Further evaluation of contract packages may be considered to seek budget savings and/or to mitigate cost or schedule impacts. Budget savings, if any, would be transferred to Contingency.
- 5) Utilization of allowance in design contracts. The allowance amount to be utilized will decrease this contingency category and will be transferred to the appropriate SCC.

Changes Identified and Project Performance

HART and the PMOC continue to hold a monthly breakout session to review changes being considered for each contract. Changes are tracked by four categories which are determined by how well defined a change is and are summarized as Changes Identified in Project Cost reports. HART continually manages the strategy to avoid or mitigate as well as plan the timing of any potential changes. Breakout session discussions focus on opportunities to reduce costs and accelerate contract-scheduled activities to attain key milestones earlier than targeted. The session concludes with an overview of the cost and schedule drawdown curves, if and when changes might occur, in order to assess project performance against total project contingencies and buffer float.

The Risk and Contingency Management Plan (RCMP) is complete. It is consistent with the FFGA submittals, including the CPP, MPS, Project Budget and Financial Plan. The RCMP includes cost and schedule contingency drawdown curves, which establish minimum and buffer zone levels of cost and schedule contingency in accordance with FTA recommendations. Over the course of the project, if the cost or schedule contingency enter into the buffer zone (the area above the minimum contingency), Project Management will immediately implement actions to maintain the level of contingency appropriate for the project stage.

Known Changes Contingency

Known Changes, though tracked separately from the Project Contingency established under the FFGA, functions like contingency and is designated as SCC 90.07 on project cost reports. In re-baselining the Project Budget for FFGA, a bottoms-up estimate (BUE) was developed for each work package identified in the CPP based on the level of design and current pricing of material, equipment, construction labor, professional services, real estate and all other costs. These revised estimates took into account the reduction of contingency to reflect the advancement of Final Design since the Preliminary Engineering phase. Contingency was then allocated in accordance with FTA guidelines and current risk modeling methodologies. The net effect was a reduction of approximately \$170M of contingency between the previous Final Design Project Budget and the FFGA Project Budget. Included in the base costs of the BUE were elements that were considered “Known” or pending changes that were still subject to final negotiations with contractors and the execution of change orders. The estimated costs for Known Changes were either classified as base cost or as separate contingency for specific work packages (contingencies eventually convert to base costs via change order). Of the total \$170M estimated for Known Changes, \$97M was classified as base cost and allocated to multiple contracts. The remaining \$74M was classified as “contingency” in order to process all changes using a consistent methodology of transferring budget from contingency to the appropriate base cost code when a change order is executed. As it was intended for this reserve, the majority of the change orders executed since the BUE draws against this contingency since these were partially defined already.

HART Project Contingency Drawdown with Details

Date as of 11/10/14

#	Project No.	Project Desc.	Budget Transfer/Change Description	Contingency Drawdown (+/-)	Contingency Code
July '12 (Bottoms-Up Estimate)					
				Beg. Balance:	
				\$643.6	
1)	FD-240	Farrington Highway Stations Group FD	Budget Transfer at Bottoms-Up-Estimate from Project Scope to Contingency (contract allowance)	\$58,443	90.03 - Contract Allowance
2)	FD-430	Airport Section Guideway Utilities FD	Budget Transfer for Contract Award less than the ASGU FD contract budget	\$2,054,106	90.02 - Allocated Contingency
3)	MM-975	LEED Commissioning Services	Budget Transfer for Contract Award above the LEED Comm. Services contract budget	(\$35,623)	90.02 - Allocated Contingency
4)	DB-320	Kamehameha Highway Guideway DB	Budget Transfer for Contract Award above the KHG DB contract budget	(\$220,663)	90.02 - Allocated Contingency
5)	DB-120	West Oahu Farrington Highway Guideway DB	Budget Transfer for Ins. Covg per executed CO No. 004	\$3,995,230	90.02 - Allocated Contingency
July '12 Contingency Drawdown				\$5,851,273	
August '12					
				Beg. Balance:	
				\$649.4	
1)	FD-140	West Oahu Stations Group FD	Budget Transfer for Contract Awarded under WOSG FD contract budget	\$1,808,200	90.02 - Allocated Contingency
2)	FD-530	City Center Guideway Utilities FD	Budget Transfer for Contract Awarded under CCGU FD contract budget	\$5,917,945	90.02 - Allocated Contingency
3)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 17 - Procure and Install Portable Buildings	(\$2,670,000)	90.02 - Allocated Contingency
August '12 Contingency Drawdown				\$5,056,145	
September '12					
				Beg. Balance:	
				\$654.5	
	N/A	N/A	No Contingency Drawdown	\$0	
September '12 Contingency Drawdown				\$0	
October '12					
				Beg. Balance:	
				\$654.5	
1)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 21 - Builders Risk Insurance Coverage	(\$56,669)	90.02 - Allocated Contingency
October '12 Contingency Drawdown				(\$56,669)	
November '12					
				Beg. Balance:	
				\$654.4	
1)	FD-440	Airport Stations Group FD	Budget Transfer for Contract Award under ASG FD the contract budget	\$227,764	90.03 - Contract Allowance
2)	FD-340	Kamehameha Highway Stations Group FD	Budget Transfer for Contract Award under KHSG FD the contract budget	\$202,469	90.03 - Contract Allowance
3)	MM-905	General Engineering Consultant	Budget Transfer to align contract budget with Committed value	(\$120,630)	90.02 - Allocated Contingency
November '12 Contingency Drawdown				\$309,623	
December '12					
				Beg. Balance:	
				\$654.7	
1)	FD-430	Airport Section Guideway Utilities FD	Executed Contract Amendment No. 01 - Design & Engineering Cost Estimates	(\$275,000)	90.02 - Allocated Contingency

HART Project Contingency Drawdown with Details

Data as of 11/10/14

#	Project No.	Project Desc.	Budget Transfer/Change Description	Contingency Drawdown (H/L)	Contingency Code
			December '12 Contingency Drawdown	(\$275,000)	
			December '12 - Ending Contingency Balance	\$654.4	
1)	DB-320	Kamehameha Highway Guideway DB	Executed Change Order No. 01 - Acaia Rd alternative analysis	(\$15,981)	90.02 - Allocated Contingency
			January '13 Contingency Drawdown	(\$15,981)	
			January '13 - Ending Contingency Balance	\$654.4	
1)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 26 - Ins. Covg Requirement/ Additional BGGV at Ft. Weaver Rd	(\$1,670,178)	90.02 - Allocated Contingency
			February '13 Contingency Drawdown	(\$1,670,178)	
			February '13 - Ending Contingency Balance	\$652.8	
			March '13	\$652.8	
1)	FD-240	Farrington Highway Stations Group FD	Executed Contract Amendment No. 09 - Waipahu Station sewer	(\$3,885)	90.03 - Contract Allowance
2)	DB-200	Maintenance & Storage Facility DB	Executed Change Order No. 06 - Ins. Covg Requirements/ DB/ Crossovers/ Insulated Joints	(\$464,876)	90.02 - Allocated Contingency
			March '13 Contingency Drawdown	(\$468,761)	
			March '13 - Ending Balance	\$652.3	
			April '13	\$652.3	
1)	FD-140	West Oahu Stations Group FD	Executed Contract Amendment No. 01 - Second elevator provision	(\$81,013)	90.03 - Contract Allowance
2)	DB-120	West Oahu Farrington Highway Guideway DB	Budget Transfer to offset Ins. Covg Requirement for Change Order No. 26	\$1,670,178	90.02 - Allocated Contingency
3)	DB-200	Maintenance & Storage Facility DB	Budget Transfer to offset Ins. Covg Requirement for Change Order No. 06	-\$434,000	90.02 - Allocated Contingency
4)	DB-320	Kamehameha Highway Guideway DB	Budget Transfer to Align current budget to contract Schedule of Milestones	\$600	90.02 - Allocated Contingency
			April '13 Contingency Drawdown	\$2,023,765	
			April '13 - Ending Contingency Balance	\$654.3	
			May '13	\$654.3	
	N/A	N/A	No Contingency Drawdown	\$0	
			May '13 Contingency Drawdown	\$0	
			May '13 - Ending Contingency Balance	\$654.3	
			June '13	\$654.3	
	N/A	N/A	No Contingency Drawdown	\$0	
			June '13 Contingency Drawdown	\$0	
			June '13 - Ending Contingency Balance	\$654.3	
1)	FD-430	Airport Section Guideway/Utilities FD	Executed Contract Amendment No. 04 - Antenna Engineering Design Services	(\$464,114)	90.02 - Allocated Contingency

HART Project Contingency Drawdown with Details

Data as of 11/10/14

#	Project No.	Project Desc.	Budget Transfer/Change Description	Contingency Drawdown (+/-)	Contingency Code
2)	DB-200	Maintenance & Storage Facility DB	Executed Change Order No. 07 - Archeological Inventory Survey (AIS) Provisional Sum Part 2	(\$3,000,000)	90 02 - Allocated Contingency
3)	DB-200	Maintenance & Storage Facility DB	Executed Change Order No. 08 - Maintenance & Storage Facility Yard Switch Machines	(\$553,000)	90 02 - Allocated Contingency
4)	DB-200	Maintenance & Storage Facility DB	Executed Change Order No. 09 - Yard Layout Revisions	(\$514,426)	90 02 - Allocated Contingency
5)	DB-200	Maintenance & Storage Facility DB	Executed Change Order No. 10 - Train Configuration	(\$27,700)	90 02 - Allocated Contingency
6)	DB-200	Maintenance & Storage Facility DB	Executed Change Order No. 11 - Preliminary Design & Supplemental Project Mgt	(\$684,866)	90 02 - Allocated Contingency
July '13 Contingency Drawdown				(\$5,254,106)	
August '13				\$649.1	
Beg. Balance:				\$649.1	
1)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 30 - Archeological Inventory Survey (AIS) Provisional Part 2	(\$5,800,000)	90 02 - Allocated Contingency
2)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 32 - Kaiol Channel Station Mod Concept	(\$72,381)	90 02 - Allocated Contingency
3)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 34 - Traditional Cultural Property Construction Partial Suspension	(\$1,185,094)	90 02 - Allocated Contingency
4)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 36 - Hopopi Station Relocation Design	(\$400,615)	90 02 - Allocated Contingency
5)	DB-320	Kaunani Highway Guideway DB	Executed Change Order No. 06 - Archeological Inventory Survey (AIS) Provisional Part 2	(\$1,500,000)	90 02 - Allocated Contingency
6)	FD-140	West Oahu Stations Group FD	Executed Contract Amendment No. 02 - Canopy Redesign	(\$504,366)	90 03 - Contract Allowance
7)	MI-830	Elevator & Escalator Install/Maint	Budget Transfer for Contract Awarded under E&E VM contract budget	\$3,738,472	90 02 - Allocated Contingency
August '13 Contingency Drawdown				(\$5,824,004)	
September '13				\$643.2	
Beg. Balance:				\$643.2	
1)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 33 - Provisional Sum HDOT Joint Use and Occupancy	(\$4,900,000)	90 02 - Allocated Contingency
2)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 35 - Aesthetic Column Design Conflict	(\$120,812)	90 02 - Allocated Contingency
3)	DB-200	Maintenance & Storage Facility DB	Executed Change Order No. 12 - HNTB Design Escalation	(\$623,500)	90 02 - Allocated Contingency
4)	FD-240	Farrington Highway Stations Group FD	Executed Contract Amendment No. 10 - Notice-to-Proceed 2 Delay/Design Delay from Core Systems Contract & West Oahu Farrington Highway DB Contract	(\$270,965)	90 02 - Allocated Contingency
September '13 Contingency Drawdown				(\$6,115,287)	
October '13				\$637.1	
Beg. Balance:				\$637.1	
1)	DB-200	Maintenance & Storage Facility DB	Executed Change Order No. 13 - Ins. Covg Requirements/ Roof Access Modification	(\$282,155)	90 02 - Allocated Contingency
2)	DB-200	Maintenance & Storage Facility DB	Budget Transfer for Change Order No. 13 for Ins. Covg Requirements	\$266,500	90 02 - Allocated Contingency
3)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 37 - Ala Ike Street Mod/W36 at DR Horton & Farrington HWY	\$24,815	90 02 - Allocated Contingency

HART Project Contingency Drawdown with Details

Data as of 11/10/14

#	Project No.	Project Desc.	Budget Transfer/Change Description	Contingency Drawdown (+/-)	Contingency Code
4)	DBOM-920	Core Systems Design Build C/M	Executed Change Order No. 05 - Platform Screen Gates Systems	(\$23,301,657)	90.02 - Allocated Contingency / 90.01 - Unallocated Contingency
5)	FD-550	Dillingham and Kaka'ako Stations Group FD	Budget Transfer for Contract awarded under DKSG FD contract budget October '13 Contingency Drawdown	\$1,157,760 (\$22,134,737)	90.02 - Allocated Contingency
October '13 - Ending Contingency Balance				\$615.0	
November '13				Beg. Balance: \$615.0	
1)	DB-120	West Oahu/Farrington Highway Guideway DB	Executed Change Order No. 38 - Insurance Coverage Requirement Q4 2013	(\$1,600,000)	90.02 - Allocated Contingency
2)	DB-120	West Oahu/Farrington Highway Guideway DB	Budget Transfer for Change Order No. 038 for Ins. Covg. Requirements	\$1,600,000	90.02 - Allocated Contingency
3)	DB-200	Maintenance & Storage Facility DB	Executed Change Order No. 014 - Preliminary Design & Supplemental Project Management 2	(\$214,846)	90.02 - Allocated Contingency
4)	DB-200	Maintenance & Storage Facility DB	Executed Change Order No. 015 - Yard Layout Revisions/RFP Structural Steel Modification	(\$1,723,000)	90.02 - Allocated Contingency
5)	DB-200	Maintenance & Storage Facility DB	Budget Transfer for Change Order No. 015 for Ins. Covg. Requirements	\$223,000	90.02 - Allocated Contingency
6)	FD-530	City Center Guideway Utilities FD	Executed Contract Amendment No. 01 - Archeological Inventory Survey (AIS) Suspension	(\$532,800)	90.02 - Allocated Contingency
7)	FD-240	Farrington Highway Station Group FD	Budget Transfer for Contract Award for FHSG FD II November '13 Contingency Drawdown	(\$2,700,205) (\$4,847,851)	90.01 - Unallocated Contingency
December '13 - Ending Contingency Balance				\$610.0	
December '13				Beg. Balance: \$610.0	
1)	FD-430	Airport Section Guideway Utilities FD	Executed Contract Amendment No. 05 - Uliena St redesign scope impact	(\$248,958)	90.02 - Allocated Contingency
2)	FD-140	West Oahu Station Group FD	Executed Contract Amendment No. 03 - Design relocation of HECC 46Kv and fiber optic lines December '13 Contingency Drawdown	(\$23,928) (\$272,886)	90.02 - Allocated Contingency
January '14				Beg. Balance: \$609.8	
January '14				Beg. Balance: \$609.8	
1)	FD-430	Airport Section Guideway Utilities FD	Executed Contract Amendment No. 06 - Archeological Inventory Survey (AIS) Suspension	(\$2,306,450)	90.02 - Allocated Contingency
2)	FD-530	City Center Guideway Utilities FD	Executed Contract Amendment No. 02 - Soil Resistance Test and Max Ssg Calculation	(\$406,153)	90.02 - Allocated Contingency
3)	MM-290	Construction Engineering & Inspection West	Budget Transfer for Contract Award less than CE&I West contract budget	\$181,068	90.02 - Allocated Contingency
4)	MM-595	Construction Engineering & Inspection East	Budget Transfer for Contract Award less than CE&I East contract budget	\$1,102,817	90.02 - Allocated Contingency
January '14 Contingency Drawdown				(\$1,428,719)	
February '14				Beg. Balance: \$608.3	
February '14				Beg. Balance: \$608.3	
1)	FD-430	Airport Section Guideway Utilities FD	Executed Contract Amendment No. 07 - Resist & Sag Geotech Investigation	(\$132,900)	90.02 - Allocated Contingency

HART Project Contingency Drawdown with Details

Data as of 11/10/14

#	Project No.	Project Desc.	Budget Transfer/Change Description	Contingency Drawdown (k\$)	Contingency Code
2)	HRT-201	HART ODC	Budget Transfer for Contract Award - Archeological & Cultural Monitoring contract	(\$11,467)	90 02 - Allocated Contingency
3)	MM-910	GEC II	Budget Transfer for Contract Award - Archeological & Cultural Monitoring & Core Systems Support contracts	(\$4,424,173)	90 02 - Allocated Contingency
4)	MM-960	Archeological & Cultural Monitoring	Budget Transfer for Contract Award - Archeological & Cultural Monitoring contract	\$36,761	90 02 - Allocated Contingency
5)	MM-962	Core Systems Support	Budget Transfer for Contract Award - Core Systems Support contract	\$4,398,899	90 02 - Allocated Contingency
February '14 Contingency Drawdown				(\$132,900)	
February '14 - Ending Contingency Balance				\$608.2	
	N/A		Beg. Balance:	\$608.2	
	N/A		No Contingency Drawdown	\$0	
			March '14 Contingency Drawdown	\$0	
March '14 - Ending Contingency Balance				\$608.2	
April '14				\$608.2	
1)	FD-140	West Oahu Stations Group FD	Executed Contract Amendment No. 04 - East Kapiolani Staff Room Pre-Final Submittal	(\$60,243)	90 03 - Contract Allowance
2)	FD-400	Airport Section Guideway Utility FD	Executed Contract Amendment No. 08 - Notice-to-Proceed 485/Provisional Sum for Design Support during bid	(\$1,588,014)	90 03 - Contract Allowance
3)	DB-200	Maintenance & Storage Facility DB	Executed Change Order No. 016 - Rail Lubricators	(\$102,000)	90 02 - Allocated Contingency
4)	DB-200	Maintenance & Storage Facility DB	Executed Change Order No. 017 - Yard Layout Reconfiguration/Automated Train Operation Design	(\$2,125,000)	90 02 - Allocated Contingency
5)	DB-200	Maintenance & Storage Facility DB	Executed Change Order No. 018 - Rail Material Storage Plan	(\$370,000)	90 02 - Allocated Contingency
6)	DB-200	Maintenance & Storage Facility DB	Executed Change Order No. 019 - Train Wash Facility Shortening	\$0	90 02 - Allocated Contingency
7)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 040 - Precast Yard Alternative Site	(\$12,400,638)	90 02 - Allocated Contingency
8)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 041 - Revised Track Alignment and Profile	(\$46,808)	90 02 - Allocated Contingency
9)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 042 - Sandwich Isles Communications Utility Relocation @ North South Rd	(\$788,049)	90 02 - Allocated Contingency
10)	DB-320	Kamehameha Highway Guideway DB	Executed Change Order No. 005 - Rebar Clear Spacing Design Criteria	\$0	90 02 - Allocated Contingency
April '14 Contingency Drawdown				(\$17,460,752)	
April '14 - Ending Contingency Balance				\$590.7	
May '14				\$590.7	
1)	FD-140	West Oahu Stations Group FD	Budget Transfer for Executed Contract Amendment No. 05 - Final Design for relocated Hooiili Station	\$220,123	90 02 - Allocated Contingency
2)	DB-320	Kamehameha Highway Guideway DB	Executed Change Order No. 008 - APEC work restrictions/abandoned utilities removal	(\$505,674)	90 02 - Allocated Contingency
3)	DB-320	Kamehameha Highway Guideway DB	Executed Change Order No. 009 - Emergency walkway/insurance covg. Requirements 2013	(\$839,000)	90 02 - Allocated Contingency

HART Project Contingency Drawdown with Details

Data as of 11/10/14

#	Project No.	Project Desc.	Budget Transfer/Change Description	Contingency Drawdown (+/-)	Contingency Code
4)	DBOM-920	Core Systems Contract Design Build O&M	Executed Change Order No. 007 - Relocate TPSS to system site #3	\$867,054	90.02 - Allocated Contingency
5)	MM-915	HDOT /MOT Consultant	Budget Transfer for Executed Contract Amendment No.002 - Increase T&M contract value	\$287,391	90.02 - Allocated Contingency
6)	MM-975	MSF LEED Consultant	Budget Transfer for Executed Contract Amendment No. 001 - LEED measurement and verification plan	(\$9,910)	90.02 - Allocated Contingency
7)	DB-200	Maintenance & Storage Facility DB	Executed Change Order No. 020 - CSC consolidated changes construction	(\$22,500,000)	90.01 - Unallocated Contingency
8)	DB-200	Maintenance & Storage Facility DB	Executed Change Order No. 025 - OSB reconfiguration	\$170,000	90.02 - Allocated Contingency
May '14 Contingency Drawdown				(\$22,310,016)	
June '14 - Ending Contingency Balance				\$568.4	
June '14				\$568.4	
1)	DB-200	Maintenance & Storage Facility DB	Board Approved RFCC 000110 - Amendment 1 Non-Rail Escalation	(\$5,000,000)	90.02 - Allocated Contingency
June '14 Contingency Drawdown				(\$5,000,000)	
July '14 - Ending Contingency Balance				\$563.4	
July '14				\$563.4	
1)	DBOM-920	Core Systems Contract Design Build O&M	Executed Change Order No. 008 - Platform Screen Gates Mobilization	(\$898,194)	90.02 - Allocated Contingency
2)	ROW	Real Estate/Right-of-Way	Budget Transfer for Contract Award above the Real Estate Map & Survey budget	(\$1,344,612)	90.02 - Allocated Contingency
3)	DB-200	Maintenance & Storage Facility DB	Budget Transfer to Project Contingency from remaining "known" Changes balance	\$1,007,860	90.02 - Allocated Contingency
4)	DB-120	West Oahu Farrington Highway Guideway DB	Budget Transfer to Project Contingency from remaining "known" Changes balance	\$1,556,107	90.02 - Allocated Contingency
July '14 Contingency Drawdown				\$321,161	
July '14 - Ending Contingency Balance				\$563.7	
August '14				\$563.7	
1)	DB-320	Kamehameha Highway Guideway DB	Executed Change Order No. 010 - Delay in issuance of Notice-to-Proceed 2 & 3	(\$1,628,000)	90.02 - Allocated Contingency
2)	FD-140	West Oahu Stations Group FD	Executed Amendment No. 005 - Passenger screen gates	(\$80,233)	90.02 - Allocated Contingency
3)	DBB-505	Airport Section Utility Construction DBB	Budget Transfer for Contract Award above Airport Section Utility Construction original budget	(\$2,755,321)	90.02 - Allocated Contingency
4)	MM-946	On Call Hazmat Removal Consultant	Budget Transfer due to scope transfer from ROW to Hazmat consultant	\$470,823	90.02 Allocated Contingency
5)	MM-945	On Call Contractor	Budget Transfer for Contract Award above On Call Contractor original budget	(\$130,435)	90.02 - Allocated Contingency
August '14 Contingency Drawdown				(\$4,323,166)	
August '14 - Ending Contingency Balance				\$559.4	
September '14				\$559.4	
1)	MM-950	OCIP Consultant Contract	Budget Transfer to unallocated contingency as estimate at completion is less than current budget	\$750,000	90.02 - Allocated Contingency

HART Project Contingency Drawdown with Details

Data as of 11/10/14

#	Project No.	Project Desc.	Budget Transfer/Change Description	Contingency Drawdown (A)	Contingency Code
2)	DB-200	Maintenance & Storage Facility DB	Executed Change Order No. 027 - Traditional Cultural Properties (TCP) Suspension	(\$473,593)	90.02 - Allocated Contingency
3)	DB-200	Maintenance & Storage Facility DB	Executed Change Order No. 026 - Insurance Coverage Requirements 2014	(\$1,112,000)	90.02 - Allocated Contingency
4)	DB-320	Kamehameha Highway Guideway DB	Executed Change Order No. 011 - Revised Vehicle Criteria/Construction Safety Security Plan	(\$231,500)	90.02 - Allocated Contingency
5)	DB-320	Kamehameha Highway Guideway DB	Executed Change Order No. 012 - Insurance Coverage Requirements 9/1/13 - 6/30/14	(\$1,400,000)	90.02 - Allocated Contingency
6)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 045 - Standard Specification Revision 2.0	(\$2,650,000)	90.02 - Allocated Contingency
7)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 046 - Insurance Coverage Requirements 2014	(\$3,400,000)	90.02 - Allocated Contingency
8)	FD-530	City Center Guideway Utilities FD	Executed Contract Amendment 004 - Aesthetic Station Column	(\$271,850)	90.02 - Allocated Contingency
9)	FD-530	City Center Guideway Utilities FD	Executed Contract Amendment 005 - City Center Section Rescue Cart Scope Impact	(\$72,000)	90.02 - Allocated Contingency
10)	FD-340	Kamehameha Highway Stations Group FD	Executed Contract Amendment 001 - Special Provisions Update/Shear Wave Analysis	(\$27,932)	90.03 - Contract Allowance
11)	FD-340	Kamehameha Highway Stations Group FD	Executed Contract Amendment 003 - Historic Architect/Replace Highway Sign	(\$71,911)	90.03 - Contract Allowance
12)	FD-340	Kamehameha Highway Stations Group FD	Executed Contract Amendment 005 - Added Bus Shelters at Aloha Stadium Station	(\$28,893)	90.03 - Contract Allowance
13)	FD-430	Airport Section Guideway Utility FD	Executed Contract Amendment 010 - Aesthetic Station Column and Pearl Harbor Station Redesign	(\$238,750)	90.02 - Allocated Contingency
14)	FD-430	Airport Section Guideway Utility FD	Executed Contract Amendment 011 - Airport Section Rescue Cart Scope Impact	(\$46,000)	90.02 - Allocated Contingency
15)	FD-140	West Oahu Stations Group FD	Executed Contract Amendment 007 - Traffic Signal Conflict UH/WCH/Opull Access Road September '14 Contingency Drawdown	(\$62,722) (\$9,338,151)	90.03 - Contract Allowance
September '14 - Ending Contingency Balance				\$660.1	
October '14				\$660.1	
1)	DIBOM-920	Core Systems Contract Design Build OM	Executed Change Order No. 009 - WOFH Guideway Alignment for CSC	(\$145,000)	90.02 - Allocated Contingency
2)	DB-200	Maintenance & Storage Facility DB	Executed Change Order No. 028 - Escalator due to Schedule Impacts	(\$8,500,000)	90.01 - Unallocated Contingency
3)	DB-320	Kamehameha Highway Stations Group FD	Executed Change Order No. 013 - Station Load & Configuration Mods.	(\$1,350,000)	90.02 - Allocated Contingency
4)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 047 - Station Load & Configuration Mods.	(\$4,400,000)	90.02 - Allocated Contingency/ 90.01 - Unallocated Contingency
5)	FD-440	Airport Stations Group FD	Executed Contract Amendment No. 002 - Extension of PM Services	(\$750,000)	90.02 - Allocated Contingency
6)	FD-440	Airport Stations Group FD	Executed Contract Amendment No. 003 - Add Pedestrian Bridges to HIA Stations	(\$434,840)	90.02 - Allocated Contingency
7)	FD-240	Farrington Highway Stations Group-2 FD	Executed Contract Amendment No. 001 - Extension of PM Services	(\$257,500)	90.03 - Contract Allowance
8)	FD-240	Farrington Highway Stations Group-2 FD	Executed Contract Amendment No. 002 - Incorporation of Comments	(\$768,756)	90.01 - Unallocated Contingency
9)	FD-240	Farrington Highway Stations Group-2 FD	Executed Contract Amendment No. 003 - Value Engineering	(\$472,705)	90.01 - Unallocated Contingency

HART Project Contingency Drawdown with Details

Data as of 11/10/14

#	Project No.	Project Desc.	Budget Transfer/Change Description	Contingency Drawdown (+/-)	Contingency Code
10)	FD-240	Farrington Highway Stations Group 2 FD	Executed Contract Amendment No. 004 - ECR/AOR	(\$748,639)	90.01 - Unallocated Contingency
11)	FD-140	West Oahu Stations Group FD	Executed Contract Amendment No. 010 - Temporary Parking Lot Near UHWOJHWO & Ho'opi'i Sewage Holding Tank	(\$102,298)	90.03 - Contract Allowance
12)	FD-140	West Oahu Stations Group FD	Executed Contract Amendment No. 011 - Extension of PM Services	(\$297,500)	90.02 - Allocated Contingency
October '14 Contingency Drawdown				(\$18,307,139)	
*November '14 - Board Approved Changes Only - Pending execution					
October '14 - Ending Contingency Balance				\$531.8	
1)	DB-120	West Oahu Farrington Highway Guideway DB	Provisional Sum pt. 1 Escalation due to the AIS Suspension	(\$15,000,000)	90.01 - Unallocated Contingency
2)	DB-320	Kamehameha Highway Guideway DB	Provisional Sum pt. 1 Escalation due to the AIS Suspension	(\$3,500,000)	90.02 - Allocated Contingency
3)	DBOM-920	Core Systems Contract Design Build O/M	Delete Ticket Vending Machines	\$10,350,000	90.01 - Unallocated Contingency
Subtotal Board Approved Contingency Drawdown				(\$8,150,000)	
November '14 - Ending Contingency Balance (Pending Execution)				\$523.6	

Appendix C. Project Cost Reports (data as of October 31, 2014)

Project Costs by Contract

Cost reports are run from the HART Contract Management System (CMS)



Costs Reported as of Month Ending: October 2014

Project Monthly Cost Report by Contract - One Line Summary

Page: 1 of 3

CPP No	Title	A		B	C-A+B		D	E	F
		Original	Changes		COMMITTED	Current *			
								Incurred To Date	%
ART	Project Wide ART	0	0	0	0	0	0	0	0%
CCH-100	Inactive Hart/City CCH	15,349,443	0	15,349,443	0	0	14,925,228	97%	
CCH-101	HART/ City Dept of BFS	105,092	0	105,092	0	0	0	0%	
CCH-102	HART/ City DDC Land Division	256,201	0	256,201	0	0	173,162	68%	
CCH-107	HART/ City Corporation Counsel (COR)	1,692,366	0	1,692,366	0	0	149,466	9%	
CCH-108	Board of Water Supply (BWS)	928,325	0	928,325	0	0	928,325	100%	
DB-120	West Oahu/Farrington Hwy Guideway	482,324,000	118,398,382	601,322,382	601,322,382	601,322,382	322,704,037	54%	
DB-200	Maintenance & Storage Facility DB	195,258,000	79,100,008	274,358,008	207,888,742	207,888,742	151,214,117	55%	
DB-320	Kamehameha Hwy Guideway DB	372,150,000	12,865,363	385,015,363	175,031,444	175,031,444	116,390,828	30%	
DBB-185	West Side SG Construction	0	0	0	0	0	0	0%	
DBB-275	Pearl Highlands Pkg. Str Crstr. OLD	0	0	0	0	0	0	0%	
DBB-470	Airport Station Group Crstr.	0	0	0	0	0	0	0%	
DBB-505	Airport Section Utilities Crstr.	28,413,974	0	28,413,974	27,389,022	27,389,022	0	0%	
DBB-510	City Center Section Utilities Crstr.	0	0	0	0	0	0	0%	
DBB-520	Airport-City Center Guideway Crstr.	0	0	0	0	0	0	0%	
DBB-525	Airport Section Guideway 7 Pier Crst	3,973,000	0	3,973,000	3,973,000	3,973,000	0	0%	
DBB-580	Dillingham/Kaka'ako SG Construction	0	0	0	0	0	0	0%	
DBB-600	UHWO PnR/Hoopili Stn Finishes Crstr.	0	0	0	0	0	0	0%	
DBO M-920	Core Systems Design Build O/M	573,782,793	29,343,490	603,126,283	587,211,271	587,211,271	83,845,951	16%	
FD-140	West Oahu Station Group Final Design	7,789,000	1,771,305	9,560,305	8,299,505	8,299,505	7,546,546	79%	
FD-240	Farrington Highway Stations Group 2	9,300,696	4,897,349	14,198,045	12,877,632	12,877,632	9,885,212	70%	
FD-245	Pearl Highlands Pkg. Str. FD OLD	0	0	0	0	0	0	0%	
FD-340	Kamehameha Hwy Station Group H2R2 FD	8,702,592	-0	8,702,592	8,004,496	8,004,496	7,687,346	88%	
FD-430	Airport Sect. Guideway/Utilities FD	38,840,960	3,711,172	42,552,132	42,552,132	42,552,132	35,700,077	84%	
FD-440	Airport Station Group FD	10,177,965	1,224,840	11,402,805	10,352,862	10,352,862	8,796,369	77%	
FD-530	City Center Guideway/Utilities FD	49,949,220	1,282,803	51,232,023	48,614,702	48,614,702	34,820,966	77%	
FD-550	Dillingham and Kaka'ako SG FD	18,321,918	-385,586	17,936,332	14,300,408	14,300,408	7,864,923	44%	
FD-600	UHWO Pkg-Hoopili Station Finishes FD	0	0	0	0	0	0	0%	
HRT-200	HART Labor	31,451,942	0	31,451,942	31,451,942	31,451,942	31,020,293	99%	
HRT-201	HART ODC	15,589,598	0	15,589,598	0	0	12,520,703	80%	
M-1930	Elevators & Escalators Instal/Maint	50,982,714	0	50,982,714	5,442,108	5,442,108	3,016,698	6%	
M-M-280	WOFH/HSG CE&I (REPA/CKA/GED)	0	0	0	0	0	0	0%	
M-M-290	Construction Engrg & Inspection West	54,232,480	0	54,232,480	16,650,000	16,650,000	5,631,907	10%	

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* Current Committed = Original Contract + COO/Amendment

** AFE = Authorized For Expenditure (Latest NTP Amounts or equal to current commitment Plus Executed Change Orders/Amendments)



Costs Reported as of Month Ending: October 2014
 Project Monthly Cost Report by Contract - One Line Summary

CPP No	Title	A		B		C=A+B		D		E		F	
		Original	Changes	COMMITTED	Changes	Current*	AFE**	AFE**	INCURRED	INCURRED To Date	PERCENT	PERCENT	
MM-385	Pearl Highlands Garage and Ramps CEI	0	0	0	0	0	0	0	0	0	0	0	0%
MM-500	Repackaged into MM959 CEI East	0	0	0	0	0	0	0	0	0	0	0	0%
MM-525	Repackaged into MM959 CEI East	0	0	0	0	0	0	0	0	0	0	0	0%
MM-530	Repackaged into MM959 CEI East	0	0	0	0	0	0	0	0	0	0	0	0%
MM-535	Construction Engng & Inspection East	63,083,417	0	63,083,417	0	63,083,417	0	0	0	4,582,059	0	0	7%
MM-600	UHWO Pkg-Hoopili Stn Finishes CEI	0	0	0	0	0	0	0	0	0	0	0	0%
MM-900	Program Mgt Support Const (PMSC-1)	36,727,162	0	36,727,162	0	36,727,162	0	20,700,000	0	0	0	0	0%
MM-901	Program Mgt Support Const (PMSC-2)	33,376,897	0	33,376,897	0	33,376,897	0	26,680,730	0	24,472,532	0	0	73%
MM-905	MM-905 Gen Engng Const EIS/PE	0	78,564,942	78,564,942	0	78,564,942	0	78,564,942	0	74,157,822	0	0	94%
MM-910	MM-910 Gen Engng Const FD-Construct	150,000,000	0	150,000,000	0	150,000,000	0	150,000,000	0	149,177,795	0	0	99%
MM-913	MM-913 Gen Engng Recomplete	46,143,277	0	46,143,277	0	46,143,277	0	13,078,208	0	8,987,669	0	0	19%
MM-915	HDOT Traffic Mgmt. Consult.	1,600,000	1,400,000	3,000,000	0	3,000,000	0	4,000,000	0	1,704,032	0	0	57%
MM-920	HDOT Coordination Const WOFH	3,000,000	7,500,000	10,500,000	0	10,500,000	0	9,000,000	0	5,763,179	0	0	55%
MM-921	HDOT Coordination Const KHG	10,000,000	-1,400,000	8,600,000	0	8,600,000	0	4,000,000	0	2,243,405	0	0	26%
MM-922	HDOT Coord. Const. Airport	12,000,000	-5,600,000	6,400,000	0	6,400,000	0	3,000,000	0	1,675,324	0	0	26%
MM-923	HDOT Coordination Const City Center	0	0	0	0	0	0	0	0	0	0	0	0%
MM-925	HDOT Labor - Highway Group	550,000	0	550,000	0	550,000	0	815,633	0	1,062,526	0	0	193%
MM-926	HDOT Labor - Airport Group	0	0	0	0	0	0	0	0	0	0	0	0%
MM-930	HDOT State SOA Manager & Consultant	1,272,400	583,142	1,855,542	0	1,855,542	0	843,167	0	514,371	0	0	28%
MM-935	Real Estate Consultant	3,000,000	3,327,665	6,327,665	0	6,327,665	0	4,817,665	0	2,072,257	0	0	33%
MM-937	Real Estate Consultant - Maps/Surv.	2,998,000	0	2,998,000	0	2,998,000	0	1,500,000	0	142,800	0	0	5%
MM-940	Kakao Consultant	1,000,000	0	1,000,000	0	1,000,000	0	500,000	0	397,813	0	0	40%
MM-945	On-Call Contractor	1,000,000	0	1,000,000	0	1,000,000	0	800,000	0	0	0	0	0%
MM-946	On-Call Hazmat Removal Contractor	3,075,000	0	3,075,000	0	3,075,000	0	1,000,000	0	1,410,193	0	0	46%
MM-950	O&P Consultant	1,250,000	0	1,250,000	0	1,250,000	0	833,750	0	729,688	0	0	58%
MM-951	Owner-Controlled Insurance Program	41,000,000	0	41,000,000	0	41,000,000	0	17,325,204	0	0	0	0	42%
MM-960	Archaeological & Cultural Monitoring	459,517	0	459,517	0	459,517	0	417,426	0	61,779	0	0	13%
MM-962	CORE Systems Support	43,988,989	0	43,988,989	0	43,988,989	0	38,000,000	0	4,245,367	0	0	10%
MM-964	Safety and Security	4,639,573	0	4,639,573	0	4,639,573	0	1,200,000	0	868,259	0	0	18%
MM-975	LEED Commissioning Services for MSF	278,630	9,910	288,540	0	288,540	0	288,540	0	58,660	0	0	20%
OTHER	Project Wide	0	0	0	0	0	0	0	0	0	0	0	0%
PA-101	Programmatic Agreement Humanities	0	0	0	0	0	0	0	0	0	0	0	0%
PA-102	Programmatic Agreement HP C	400,000	0	400,000	0	400,000	0	200,000	0	44,032	0	0	11%

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Costs Reported as of Month Ending: October 2014
Project Monthly Cost Report by Contract - One Line Summary

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CPP No	Title	A	B	C=A+B	D	E	F
		Original	COMMITTED Changes	Current*	AFE**	INCURRED Incurred To Date	PERCENT %
PA-108	Programmatic Agreement HP C Park Inpor PA	0	0	0	0	0	0%
ROW	Real Estate / Right-of-Way	60,888,688	0	60,888,688	0	75,661,516	124%
UTIL	Utilities by Utility Companies T&M	87,372,935	1,070,000	88,442,935	67,943,941	10,480,422	12%
Total Project:		2,573,334,163	337,664,785	2,910,998,948	2,172,438,768	1,252,640,815	

* Current Committed = Original Contract + CCO /Amendment

** AFE = Authorized For Expenditure (Latest NTP Amounts or equal to current commitment Plus Executed Change Orders/Amendments)

Project Costs by SCC – Summary

Cost reports are run from the HART Contract Management System (CMS)



Costs Reported as of Month Ending: October 2014
 Project Monthly Cost Report by SCC Summary

SOC	Title	A		B		C=A+B		D	E	F	G	H=C-G	I
		Baseline	Transfers	Budget	Current	Current	Current*						
1. Subtotal 10 - 80 SCC Costs													
10.	Guideway & Track Elements	1,114,215,147	38,569,024	1,152,784,171	542,961,754	29,248,193	0	1,152,784,171	0	0	1,152,784,171	0	111,149,499
20.	Stations/Stops/Terminals/Intermodal	421,804,740	(25,138,472)	396,666,268	50,982,714	0	0	396,666,268	0	0	396,666,268	0	3,016,698
30.	Support Facilities:Yards,Shops,.Admin	92,535,015	21,771,122	114,306,137	114,306,137	17,962,473	0	114,306,137	0	0	114,306,137	0	44,762,412
40.	Sitework & Special Conditions	983,178,121	29,461,254	1,012,639,375	686,946,700	134,068,276	6,566,352	1,012,639,375	0	0	1,012,639,375	0	342,729,165
50.	Systems	221,284,301	35,806,231	257,090,532	241,930,319	36,548,039	(810,000)	257,090,532	0	0	257,090,532	0	10,375,849
60.	ROW, Land, Existing Improvements	197,397,947	528,621	197,926,568	64,218,508	329,820	5,000,000	197,926,568	0	0	197,926,568	0	78,011,573
70.	Vehicles	186,829,020	4,713,937	191,543,017	191,543,017	1,514,720	0	191,543,017	0	0	191,543,017	0	11,714,782
80.	Professional Services	1,087,830,119	6,077,839	1,093,907,958	1,006,894,704	114,915,244	(17,509,898)	1,093,907,958	0	0	1,093,907,958	0	611,102,501
A.C.	Provisional Pay/Requests	0	0	0	0	0	0	0	0	0	0	0	39,399,589
Subtotal:		4,305,074,410	111,789,616	4,416,864,026	2,899,783,853	334,586,825	(6,253,546)	4,416,864,026	0	0	4,416,864,026	0	1,252,262,063
2. NTP													
NTP	Authorized For Expenditure	0	0	0	0	1,831,250,704	0	0	0	0	0	0	0
Subtotal:		0	0	0	0	1,831,250,704	0	0	0	0	0	0	0
3. Contingency													
CONTR	Allocated Contingency	541,689,348	(66,028,501)	475,660,847	11,215,935	6,601,239	189,748,816	475,660,842	0	0	475,660,842	0	378,747
PRJ	Unallocated Contingency	101,871,170	(45,761,115)	56,110,055	0	0	0	56,110,055	0	0	56,110,055	0	0
Subtotal:		643,560,513	(111,789,616)	531,770,897	11,215,935	6,601,239	189,748,816	531,770,897	0	0	531,770,897	0	378,747
4. Finance Charges - Eligible													
OTH	Finance Charges	173,058,243	0	173,058,243	0	0	0	173,058,243	0	0	173,058,243	0	0
Subtotal:		173,058,243	0	173,058,243	0	0	0	173,058,243	0	0	173,058,243	0	0
FIA TOTAL PROJECT COSTS		5,421,693,166	(6)	5,421,693,166	2,910,998,948	2,172,438,768	183,495,271	5,421,693,166	0	0	5,421,693,166	0	1,252,640,815
4. Finance Charges - Ineligible Costs													
FINC	Finance Charges	42,000,000	0	42,000,000	0	0	0	42,000,000	0	0	42,000,000	0	0
Subtotal:		42,000,000	0	42,000,000	0	0	0	42,000,000	0	0	42,000,000	0	0
INELIGIBLE COSTS		42,000,000	0	42,000,000	0	0	0	42,000,000	0	0	42,000,000	0	0
Total Project:		5,163,693,166	(6)	5,163,693,166	2,910,998,948	2,172,438,768	183,495,271	5,163,693,166	0	0	5,163,693,166	0	1,252,640,815

* Current Committed = Original Contract + CCO/Amendment
 ** AFE = Authorized For Expenditure (Latest NTP Amounts or equal to current commitment Plus Executed Change Orders/Amendments)
 *** Changes Identified= Pending + Probable + Potential Changes
 **** Est. At Completion= Original Contract + CCO/Amendments + Changes Identified

Project Costs by SCC – Level 2

Cost reports are run from the HART Contract Management System (CMS)

Costs Reported as of Month Ending: October 2014
 Project Monthly Cost Report by SCC Details

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SCC	Title	A		B		C-A+B		D		E		F		G		H=C-G		I
		Baseline	Transfers	BUDGET	Transfers	Current	COMMITTED	AFE	AFE**	Changes ID'd***	Est. At Completion****	Variance	Incurred To Date					
1.	Subtotal 10 - 80 SCC Costs																	
10.	Guideway & Track Elements	1,114,215,147	38,569,024	1,152,784,171	542,961,754	29,248,133	0	1,152,784,171	0	1,152,784,171	0	111,149,489						
10.04	Guideway: Aerial Structure	1,022,380,871	35,592,863	1,057,973,734	457,658,917	19,586,466	0	1,057,973,734	0	1,057,973,734	0	76,934,788						
10.08	Guideway: Retained Cut or Fill	7,482,944	(1,056,888)	6,426,056	6,426,056	0	0	6,426,056	0	6,426,056	0	0						
10.09	Track: Direct Fixation	79,347,205	3,037,822	82,385,027	74,637,831	9,630,851	0	82,385,027	0	82,385,027	0	34,214,711						
10.11	Track: Ballasted	3,293,724	(595,849)	2,697,875	2,697,875	0	0	2,697,875	0	2,697,875	0	0						
10.12	Track: Special (Switches, turnouts)	1,700,603	1,530,876	3,231,479	1,530,876	30,876	0	3,231,479	0	3,231,479	0	0						
20.	Stations & ops: Terminals, Intermodal	421,804,740	(25,138,472)	396,666,268	50,982,714	0	0	396,666,268	0	396,666,268	0	3,016,698						
20.01	A-grade station, stop, shelter...	6,111,332	0	6,111,332	0	0	0	6,111,332	0	6,111,332	0	0						
20.02	Aerial Station, stop, shelter, mall	294,563,457	(21,400,000)	273,163,457	0	0	0	273,163,457	0	273,163,457	0	0						
20.06	Automobile parking multi-story str	66,408,765	0	66,408,765	0	0	0	66,408,765	0	66,408,765	0	0						
20.07	Elevators, Escalators	54,721,186	(3,738,472)	50,982,714	50,982,714	0	0	50,982,714	0	50,982,714	0	3,016,698						
30.	Support Facilities: Yards, Shops, Admin	92,535,015	21,771,122	114,306,137	114,306,137	17,962,473	0	114,306,137	0	114,306,137	0	44,762,412						
30.02	Light Maintenance Facility	7,591,888	(5,095)	7,586,793	7,586,793	0	0	7,586,793	0	7,586,793	0	840,288						
30.03	Heavy Maintenance Facility	38,099,138	4,595,814	42,694,952	42,694,952	4,837,922	0	42,694,952	0	42,694,952	0	13,456,144						
30.04	Storage or Maintenance of Way Bul	7,797,460	964,571	8,762,031	8,762,031	1,026,121	0	8,762,031	0	8,762,031	0	1,329,637						
30.05	Yard and Yard Track	39,046,529	16,215,832	55,262,361	55,262,361	12,098,430	0	55,262,361	0	55,262,361	0	29,136,343						
40.	Sitework & Special Conditions	983,178,121	29,461,254	1,012,639,375	696,946,700	134,068,276	0	1,012,639,375	6,566,332	1,012,639,375	0	342,729,165						
40.01	Demolition, Clearing, Earthwork	29,980,158	(2,308,147)	27,672,011	8,022,338	125,214	0	27,672,011	0	27,672,011	0	241,537						
40.02	Site Utilities, Utility Relocation	298,448,756	8,115,662	306,564,418	189,515,517	6,902,637	0	306,564,418	6,967,666	307,566,418	0	28,855,869						
40.03	Haz. mat'l, contain'd soil removal	9,199,237	(5,421,634)	3,777,603	3,091,055	16,085	0	3,777,603	(391,304)	3,377,803	0	69,843						
40.04	Environmental Mitigation	26,979,122	4,976,801	31,955,923	16,543,497	2,689	0	31,955,923	0	31,955,923	0	6,896,521						
40.05	Site structures, retaining walls,	7,998,960	1,062,414	9,061,374	8,902,848	0	0	9,061,374	0	9,061,374	0	885,463						
40.06	Pedestrian/bike access/landscaping	41,073,897	741,177	41,815,074	4,981,868	(4,566)	0	41,815,074	0	41,815,074	0	50,000						
40.07	Auto, bus, van accessways	181,979,367	(11,513,507)	170,465,860	35,553,416	784,900	0	170,465,860	0	170,465,860	0	2,723,037						
40.08	Temporary Facilities/Indirect Cost	386,517,624	33,808,488	420,326,112	420,326,112	126,241,317	0	420,326,112	0	420,326,112	0	301,710,460						
50.	Systems	221,284,301	35,806,231	257,090,532	241,990,319	36,548,039	0	257,090,532	(910,000)	257,090,532	0	10,375,849						
50.01	Train control and signals	81,982,556	23,381,140	105,363,696	105,363,696	22,961,050	0	105,363,696	0	105,363,696	0	1,197,986						
50.02	Traffic signals and crossing prot.	10,458,226	(206,890)	10,251,336	0	0	0	10,251,336	0	10,251,336	0	0						
50.03	Traction power supply: substation	29,500,926	1,229,880	30,730,806	30,730,806	(237,485)	0	30,730,806	0	30,730,806	0	342,747						
50.04	Traction power distribution: cat	32,878,150	5,059,838	37,937,988	33,029,111	7,941,115	0	37,937,988	0	37,937,988	0	3,120,123						
50.05	Communications	53,691,339	6,443,477	60,134,816	60,134,816	5,883,419	0	60,134,816	(310,000)	60,134,816	0	5,714,993						
50.06	Fare collection system and equipme	9,159,277	58,822	9,218,099	9,218,099	0	0	9,218,099	0	9,218,099	0	0						

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**** Est. At Completion = Original Contract + CCO/Amendments + Changes Identified

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Costs Reported as of Month Ending: October 2014
 Project Monthly Cost Report by SCC Details

SCC	Title	A		B		C=A+B		D		E		F		G		H=C-G		I	
		Baseline	Transfers	BUDGET	Transfers	Current	Current	COMMITTED	Current*	AFE**	AFE**	Changes ID'd***	ESTIMATE AT COMPLETION	Variance	Incurred	In Date			
1. Subtotal 10 - 80 SCC Costs																			
50.0	Systems	221,284,301		35,806,231		257,090,532		241,930,319		38,548,039		(310,000)		257,090,532		0	10,375,849		
50.07	Central Control	3,613,827		(160,036)		3,453,791		3,453,791		0		0		3,453,791		0	0		
60.0	ROW, Land, Existing Improvements	197,337,947		523,621		197,861,568		64,218,508		329,820		5,000,000		197,861,568		0	78,011,573		
60.01	Purchase or lease of real estate	179,360,664		250,821		179,611,485		57,262,760		52,020		5,000,000		179,611,485		0	71,879,497		
60.02	Relocation of existing households	18,037,283		277,800		18,315,083		6,955,748		277,800		0		18,315,083		0	4,059,819		
70.0	Vehicles	186,829,020		4,713,997		191,543,017		191,543,017		1,514,720		0		191,543,017		0	11,714,782		
70.01	Light Rail	166,721,386		5,915,687		172,637,073		172,637,073		1,514,720		0		172,637,073		0	8,420,148		
70.06	Non-revenue vehicles	14,346,323		(1,320,375)		13,025,948		13,025,948		0		0		13,025,948		0	3,294,634		
70.07	Spare parts	5,760,711		119,685		5,879,396		5,879,396		0		0		5,879,396		0	0		
80.0	Professional Services	1,087,830,119		6,077,839		1,093,907,958		1,006,894,704		114,915,244		(17,309,898)		1,093,907,958		0	611,102,501		
80.01	Preliminary Engineering	94,055,262		24,644,185		118,699,447		109,567,127		20,905,682		0		118,699,447		0	101,088,184		
80.02	Final Design	228,321,632		(10,446,899)		217,874,733		197,293,412		22,378,985		526,098		217,874,733		0	129,580,863		
80.03	Project Management Design & Cons	363,849,768		(44,051,182)		319,798,586		349,210,543		64,946,774		(17,323,901)		319,798,586		0	258,515,007		
80.04	Constr. Admin. & Management	199,656,728		(37,893,393)		161,763,335		156,506,875		2,122,463		0		161,763,335		0	55,917,579		
80.05	Professional Liability & other hrs	46,549,724		28,791,938		75,341,662		43,174,657		7,005,500		0		75,341,662		0	18,988,608		
80.06	Legal; Permits, Review Fees etc.	67,641,005		(211,086)		67,429,919		35,564,005		2,516,420		0		67,429,919		0	14,972,076		
80.07	Surveys, Testing, Investigation, I	21,759,336		45,540,674		67,300,010		66,772,822		446,446		0		67,300,010		0	17,703,483		
80.08	Start up	65,996,664		(294,399)		65,702,265		48,805,263		898,194		(712,095)		65,702,265		0	13,898,855		
A.C.	Provisional Pay Requests	0		0		0		0		0		0		0		0	39,399,589		
ACR	Provisional Request For Payment	0		0		0		0		0		0		0		0	39,399,589		
Subtotal:		4,305,074,410		111,789,616		4,416,864,026		2,899,793,853		334,586,825		(6,253,546)		4,416,864,026		0	1,252,262,068		
2. NTP																			
NTP	Authorized For Expenditure	0		0		0		0		1,881,250,704		0		0		0	0		
NTP	Notice To Proceed	0		0		0		0		1,831,250,704		0		0		0	0		
Subtotal:		0		0		0		0		1,831,250,704		0		0		0	0		
3. Contingency																			
CMTR	Allocated Contingency	541,689,343		(66,028,501)		475,660,842		11,215,095		6,601,239		189,748,816		475,660,842		0	378,747		
90.02	Allocated Contract Contingency	540,101,329		(69,104,343)		470,996,986		6,601,239		6,601,239		184,382,173		470,996,986		0	378,747		
90.03	Allowances	1,588,014		3,073,842		4,661,856		4,613,857		0		5,366,643		4,661,856		0	0		
90.07	Known Change Contingency	0		0		0		0		0		0		0		0	0		

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 *** Changes Identified= Pending + Probable + Potential Changes
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Costs Reported as of Month Ending: October 2014
Project Monthly Cost Report by SCC Details



SCC	Title	A		B		C-A+B		D	E	F	G	H=C-G	I
		Baseline	Transfers	BUDGET	Transfers	Current	COMMITTED	Current*	AFE**	AFE**	Changes ID'd***	Est. At Completion****	Variance
3. Contingency													
PRJ	Unallocated Contingency	101,871,170	(45,761,115)	(45,761,115)	56,110,055	0	0	0	0	0	56,110,055	0	0
90.01	Unallocated Project Contingency	101,871,170	(45,761,115)	(45,761,115)	56,110,055	0	0	0	0	0	56,110,055	0	0
Subtotal:		643,560,513	(111,769,616)	(111,769,616)	531,770,897	11,215,095	6,601,239	183,748,816	531,770,897	0	378,747	0	378,747
4. Finance Charges - Eligible													
OTH	Finance Charges	173,058,243	0	173,058,243	0	0	0	0	0	0	173,058,243	0	0
100.1	Finance Charges:Project-Eligible	173,058,243	0	173,058,243	0	0	0	0	0	0	173,058,243	0	0
Subtotal:		173,058,243	0	173,058,243	0	0	0	0	0	0	173,058,243	0	0
FTA TOTAL PROJECT COSTS 5,424,693,166													
4. Finance Charges - Ineligible Costs													
FINC	Finance Charges	42,000,000	0	42,000,000	0	0	0	0	0	0	42,000,000	0	0
100.2	FTA Non-Eligible Costs	42,000,000	0	42,000,000	0	0	0	0	0	0	42,000,000	0	0
Subtotal:		42,000,000	0	42,000,000	0	0	0	0	0	0	42,000,000	0	0
INELIGIBLE COSTS													
0													
Total Project:													
5,163,693,166													
(0)													
2,910,998,948													
2,172,438,768													
183,495,274													
5,163,693,166													
0													
1,252,640,815													

* Current Committed = Original Contract + CCO/Amendment
 ** AFE = Authorized For Expenditure (Latest NTP Amounts or equal to current commitment Plus Executed Change Orders/Amendments)
 *** Changes Identified= Pending + Probable + Potential Changes
 **** Est. At Completion = Original Contract + CCO/Amendments + Changes Identified

Appendix D. Contract Status

Procurement: Design-Build (DB), Design-Build-Operate-Maintain (DBOM) and Manufacture-Install-Maintain (MIM) Contracts

Procurement Tracking Report						
Contract No.	Contract Name	Contractor	Dates	Issue RFP	Issue NTP	Contract Completion
Design-Build Contracts						
DB-120	West O'ahu/Farrington Highway Guideway (WOFH)	Kiewit Infrastructure West Company (KIWC)	Current Forecast Actual Date	Apr 03 '09	Dec 01 '09	Jul 01 '16
DB-200	Maintenance and Storage Facility (MSF)	Kiewit / Kobayashi Joint Venture (KKJV)	Current Forecast Actual Date	Jul 24 '09	Jul 25 '11	Apr 15 '16
DB-275	Pearl Highlands Parking Structure / Bus Transit Center		Current Forecast Actual Date	Mar 03 '14	TBD	TBD
DB-320	Kamehameha Guideway (KHG)	Kiewit Infrastructure West Company (KIWC)	Current Forecast Actual Date	Mar 19 '10	Jul 12 '11	Sep 16 '16
Design-Build-Operate-Maintain Contract						
DBOM-920	Core Systems Contract	Ansaldo Honolulu JV	Current Forecast Actual Date	Aug 17 '09	Jan 13 '12	Mar 31 '19
Manufacture - Install - Test - Maintain						
MI-930	Elevators and Escalators	Schindler Elevator Corporation	Current Forecast Actual Date	Dec 18 '12	Aug 02 '13	Jul 05 '18

Procurement: Final Design (FD) Contracts

Procurement Tracking Report						
Contract #	Contract Name	Contractor Name	Dates	Issue RFQ	Issue NTP	Contract Completion
Final Design Contracts						
FD-140	West O'ahu Station Group Final Design and Support	URS Corporation	Current Forecast Actual Date	Jun 14 '10	Jun 15 '12	Jun 30 '16
FD-240	Farrington Highway Station Group Final Design and Support	URS Corporation	Current Forecast Actual Date	Jun 10 '13	Sep 30 '13	Nov 14 '16
FD-340	Kamehameha Highway Station Group Final Design (includes H2/R2 Ramp) and Support	Anil Verma Associates, Inc.	Current Forecast Actual Date	Jun 28 '11	Nov 26 '12	Oct 31 '16
FD-430	Airport Section Guideway and Utilities Final Design and Support	AECOM Technical Services, Inc.	Current Forecast Actual Date	Jan 26 '11	Jan 05 '12	Jun 30 '17
FD-530	City Center Section Guideway and Utilities Final Design and Support	AECOM Technical Services, Inc.	Current Forecast Actual Date	Dec 16 '11	Jul 31 '12	Apr 30 '18
FD-440	Airport Station Group Final Design and Support	AECOM Technical Services, Inc.	Current Forecast Actual Date	Mar 30 '12	Nov 14 '12	Jul 15 '17
FD-550	Dillingham and Kaka'ako Station Groups "East Side Stations" Final Design and Support	Perkins+Will	Current Forecast Actual Date	Nov 16 '12	Jul 31 '13	Jul 30 '18
FD-600	UH West O'ahu Park-and-Ride and Ho'opili Station Finishes Final Design and Support		Current Forecast Actual Date	TBD	TBD	TBD

Procurement: Design-Bid-Build (DBB) Contracts

Procurement Tracking Report						
Contract No.	Contract Name	Contractor Name	Dates	Advertise for Bids	Issue NTP	Contract Completion
Design-Bid-Build (DBB) Contracts						
DBB-505	Airport Section Utilities Construction	Nan, Inc.	Current Forecast Actual Date	Dec 17 '13	Jun 30 '14	Dec 22 '15
DBB-271	Farrington Hwy Station Group Construction		Current Forecast Actual Date	Dec 19 '14	Mar 30 '15	Jul 31 '17
DBB-171	West O'ahu Station Group Construction		Current Forecast Actual Date	TBD	TBD	TBD
DBB-371	Kamehameha Hwy Station Group Construction		Current Forecast Actual Date	TBD	TBD	TBD
DBB-470	Airport Station Group Construction		Current Forecast Actual Date	TBD	TBD	TBD
Re-Pkg DBB-580	Dillingham/Kaka'ako Station Groups "East Side Stations" Construction		Current Forecast Actual Date	TBD	TBD	TBD
DBB-520	Airport and City Center Sections Guideway Construction / City Center Section Utilities Construction		Current Forecast Actual Date	Jul 02 '14	TBD	TBD
DBB-525	Airport Section Guideway Seven (7) Pier Construction Contract	HDCC / CJA JV	Current Forecast Actual Date	Jul 09 '14	Sep 18 '14	Feb 28 '15
DBB-600	UH West O'ahu Park-and-Ride and Ho'opili Station Finishes Construction		Current Forecast Actual Date	TBD	TBD	TBD

Procurement: Construction Engineering and Inspection Services (CE&I) Contracts

Procurement Tracking Report						
Contract No.	Contract Name	Contractor Name	Dates	Advertise RFQ	Issue NTP	Contract Completion
Construction Engineering & Inspection (CE&I) Services Contracts						
MM-290	Construction Engineering & Inspection West Side Sections	PGH Wong Engineering, Inc.	Current Forecast Actual	Jul 26 '13	Jan 09 '14	Mar 01 '19
MM-595	Construction Engineering & Inspection East Side Sections	URS Corporation	Current Forecast Actual	Jul 26 '13	Jan 09 '14	Mar 01 '19

Procurement: Project Management and Specialty Consultant Services Contracts

Procurement Tracking Report						
Contract No.	Contract Name	Contractor Name	Dates	Issue RFQ	Issue NTP	Contract Completion
Project Management and Specialty Consultant Services Contracts						
MM-901	Program Management Support Consultant - 2 (PMSC-2)	InfraConsult LLC	Current Forecast Actual	Aug 03 '11	Mar 08 '12	Mar 07 '15
MM-910	General Engineering Consultant II (GEC-2) (Final Design and Construction)	Parsons Brinckerhoff	Current Forecast Actual	Sep 03 '09	Aug 02 '11	Dec 31 '14
MM-913	General Engineering Consultant III (GEC-3)	CH2M HILL	Current Forecast Actual	Jul 26 '13	Dec 05 '13	Mar 01 '19
MM-935	Real Estate Consultant	Paragon Partners, Ltd.	Current Forecast Actual	Apr 01 '11	Mar 14 '12	Mar 13 '17
MM-937	Real Estate Mapping & Surveying	R.M. Towill Corporation	Current Forecast Actual	Nov 15 '13	May 23 '14	Dec 30 '17
MM-940	Kāko'o Consultant	Pacific Legacy, Inc.	Current Forecast Actual	May 20 '11	Mar 30 '12	Feb 14 '17
MM-945	On-Call Construction Contractor	Royal Contracting Co. Ltd.	Current Forecast Actual	Jun 02 '14	Aug 14 '14	Mar 03 '19
MM-950	Owner-Controlled Insurance Program (OCIP) Consultant	Marsh USA, Inc.	Current Forecast Actual	Jan 31 '12	Jun 05 '12	May 09 '17
MM-951	Owner-Controlled Insurance Program (OCIP) Brokerage Services	Aon Risk Services, Inc., of Hawaii	Current Forecast Actual	Jun 04 '13	Apr 08 '14	Mar 30 '19
MM-960	Archaeological & Cultural Monitoring	Cultural Surveys Hawai'i	Current Forecast Actual	Sep 10 '13	Jan 15 '14	May 30 '18
MM-962	CORE Systems Support [Recompete]	Lea+Elliott, Inc.	Current Forecast Actual	Sep 13 '13	Feb 11 '14	Mar 01 '19
MM-964	Safety / Security Support	Lawson & Associates, Inc.	Current Forecast Actual	Oct 23 '13	Feb 11 '14	Dec 14 '17
MM-975	LEED Commissioning Services for the Maintenance and Storage Facility (MSF)	Enovity, Inc.	Current Forecast Actual		Oct 07 '10	Jan 14 '16
PA-102	Historic Architecture Design Services	Fung Associates, Inc.	Current Forecast Actual	Mar 15 '13	Aug 01 '13	May 01 '16

Procurement: HDOT Consultant Services and Other Contracts

Procurement Tracking Report						
Contract No.	Contract Name	Contractor Name	Dates	Issue RFQ	Issue NTP	Contract Completion
Hawai'i Department of Transportation (HDOT) Consultant Services Contracts						
MM-915	HDOT Traffic Management Coordination Consultant	ICX Transportation Group, Inc.	Current Forecast Actual	Aug 15 '11	Jun 12 '12	Jul 01 '17
MM-920	HDOT Design Coordination Consultant - West O'ahu/Farrington Highway Guideway Section	AECOM Technical Services, Inc.	Current Forecast Actual		Jun 08 '11	Jun 15 '18
MM-921	HDOT Design Coordination Consultant - Kamehameha Highway Guideway Section	AECOM Technical Services, Inc.	Current Forecast Actual		Jun 29 '12	Jul 15 '15
MM-922	HDOT Design Coordination Consultant - Airport and City Center Guideway Sections	SSFM International, Inc.	Current Forecast Actual		Jun 12 '12	Jun 15 '18
Other Contracts						
MM-946	On-Call Hazardous Materials (HazMat) Removal Contractor	CH2M HILL	Current Forecast Actual		Sep 07 '12	Feb 15 '17

Appendix E. DBE Participation

HART has established a Disadvantaged Business Enterprise (DBE) program in accordance with the regulations of the U.S. Department of Transportation (USDOT), Title 49, Code of Federal Regulations, Part 26 (49 CFR Part 26). To be certified as a DBE, a firm must be small business owned and controlled by socially and economically disadvantaged individuals.

FTA funds totaling approximately \$1.764 billion in year of expenditure dollars (\$1.550 billion New Starts funds plus \$0.214 billion Section 5307/ARRA funds) will be expended for Project related goods and services. A project goal of 13% or approximately \$229 million dollars has been established for awards to DBEs through Federal Fiscal Year 2018.

It is the policy of HART to ensure that DBEs as defined in 49 CFR Part 26 have an equal opportunity to receive and participate in USDOT-assisted contracts.

DBE Participation (9/24/07 to 11/30/14)						
DBE Firm	NAICS Code	Race	Sex	Contract Number	Participation to Date	Total DBE Participation
David's Fencing	238990	APA	M	CT-HRT-10H0137 DB-120	\$6,800	
				CT-DTS-1100195 DB-320	\$129,816	
				CT-HRT-1000449 DB-200	\$50,307	\$186,923
Glad's Landscaping	561730	APA	M	CT-HRT-10H0137 DB-120	\$303,790	\$303,790
Don's Makiki	484110	APA	M	CT-HRT-10H0137 DB-120	\$537,031	
				CT-HRT-10H0449 DB-200	\$41,232	
				CT-DTS-1100195 DB-320	\$60,714	\$638,977
Pacific Preferred Contractors Corp.	237310	APA	M	CT-HRT-10H0137 DB-120	\$13,610	\$13,610
PAC Electric	238210	APA	F	CT-HRT-10H0137 DB-120	\$2,730,278	\$2,730,278
PMJ Builders	238310	APA	M	CT-HRT-10H0137 DB-120	\$43,866	
				CT-DTS-1100195 DB-320	\$107,100	\$150,966
Standard Sheetmetal & Mechanical	236220	APA	M	CT-HRT-10H0449 DB-200	\$6,105	\$6,105
LP&D Hawaii	541320	APA	M	SC-DTS-1100013 FD-240	\$219,911	\$219,911
Ace Land Surveying	541370	NA	M	SC-DTS-1100013 FD-240	\$38,700	\$38,700
Integrated Security Tech.	561621	O	F	CT-HRT-1200106 DBOM-920	\$105,180	\$105,180
LKG-CMC	541618	O	F	SC-HRT-11H0131 MM-905	\$2,600,462	
				SC-DTS-0700001 **** MM-910	\$2,783,277	
				SC-HRT-1400051 MM-595	\$92,562	
				SC-HRT-1400049 MM-962	\$110,241	\$5,586,542
Lawson & Associates	541690	O	F	SC-HRT-11H0131 MM-905	\$740,962	
				SC-DTS-0700001 **** MM-910	\$150,141	
				SC-HRT-1400061 MM-964	\$319,332	\$1,210,435
Gary K. Omori	541618	APA	M	SC-HRT-11H0131 MM-905	\$388,609	
				SC-DTS-0700001 **** MM-910	\$392,920	\$781,529
Pat Lee & Assoc.	541618	APA	M	SC-HRT-11H0131 MM-905	\$402,791	
				SC-DTS-0700001 **** MM-910	\$374,110	\$776,901
212 Harakawa	541430	APA	F	SC-HRT-11H0131 MM-905	\$358,141	

DBE Participation (9/24/07 to 11/30/14)						
DBE Firm	NAICS Code	Race	Sex	Contract Number	Participation to Date	Total DBE Participation
				SC-DTS-0700001 **** MM-910	\$354,758	\$712,899
JAD & Associates	541330	APA	M	SC-DTS-0700001 **** MM-910	\$508,355	\$508,355
Pacific Architects	541310	APA	M	SC-DTS-0700001 **** MM-910	\$39,273	\$39,273
Nagame Okawa*	541310	APA	M	SC-DTS-0700001 MM-910	\$67,014	\$67,014
Consulting Structural Hawaii	541330	APA	M	SC-DTS-0700001 **** MM-910	\$298,557	\$298,557
Bright Light Marketing Group	541613	APA	F	SC-HRT-1200038 FD-430	\$162,813	
				SC-HRT-1200149 FD-530	\$191,227	
				SC-HRT-1300022 FD-440	\$134,912	\$488,952
Ki Concepts	541320	APA	M	SC-HRT-1200077 MM-922/923	\$22,410	\$22,410
Miyabara Associates	541320	APA	M	SC-HRT-1300022 FD-440	\$99,850	\$99,850
Anil Verma Associates, Inc.**	541350	HA	M	SC-HRT-1200111 FD-340	\$3,239,360	\$3,239,360
AMR Estimating Services ***	541330	HA	M	SC-HRT-11H0131 MM-905	\$135,281	
				SC-HRT-1400027 MM-913	\$244,957	\$380,238
The Nakoia Companies	541620	NA	M	CT-HRT-1200106 DBOM-920	\$3,843	\$3,843
Hawaiya Technologies	238210	APA	F	CT-HRT-10H0449 DB-200	\$27,514	\$27,514
Element Environmental	541620	APA	M	SC-HRT-1400050 MM-290	\$387,544	\$387,544
PSC Consultants	541330	APA	M	SC-HRT-1400050 MM-290	\$4,477	\$4,477
Bow Construction Management	541330	APA	M	SC-HRT-1400050 MM-290	\$108,015	\$108,015
FIC, LLC	541611	APA	M	SC-HRT-1400051 MM-595	\$454,154	\$454,154
The Solis Group	541620	O	F	SC-HRT-1400027 MM-913	\$365,592	\$365,592
Island Hauling	484110	APA	M	CT-HRT-1000449 DB-200	\$17,765	\$17,765
ADS System Safety Consulting *****	541620	BA	M	SC-HRT-1400061 MM-964	\$256,757	\$256,757
Total						\$20,232,416

* Nagame Okawa's countable participation is limited to the period from 1/2/09 to 2/16/10. The company graduated from the DBE program on 2/16/10.
 ** Anil Verma Associates, Inc. is a prime contractor and was certified as a DBE effective 6/26/13.
 *** AMR Estimating Services, Inc. was certified as a DBE effective 10/25/13.
 **** DBE participation from 9/24/07 to 9/17/13.
 ***** ADS System Safety Consulting was certified as a DBE effective 8/7/14.

Race Categories

APA	Persons whose origins are from Japan, China, Taiwan, Korea, Burma (Myanmar), Vietnam, Laos, Cambodia (Kampuchea), Thailand, Malaysia, Indonesia, the Philippines, Brunei, Samoa, Guam, the U.S. Trust Territories of the Pacific Islands, (Republic of Palau), the Commonwealth of the Northern Marianas Islands, Macao, Fiji, Tonga, Kiribati, Juvalu, Nauru, Federated States of Micronesia or Hong Kong
BA	Persons having origins in any of the black racial groups of Africa
HA	Persons of Mexican, Puerto Rican, Cuban, Dominican, Central or South American, or other Spanish or Portuguese culture or origin regardless of race
NA	Persons who are American Indians, Eskimos, Aleuts, or Native Hawaiians
SAA	Persons whose origins are from India, Pakistan, Bangladesh, Bhutan, the Maldives Islands, Nepal or Sri Lanka
O	Any other group whose members are designated as socially and economically disadvantaged by the SBA

Appendix F. Risk

Risk by Contract Package				
Contract Packages	Oct. 2014 # of Risks	November 2014 Update		
		Total # of Risks	New Risks	Deleted Risks
Project Wide	4	5	1	0
WOFH Guideway	27	23	0	4
Maintenance and Storage Facility	6	6	0	0
Kamehameha Highway Guideway	28	24	0	4
Core Systems Contract	9	11	2	0
Elevator/Escalator	3	3	0	0
Airport Utilities	2	2	0	0
Pearl Highlands	6	6	0	0
Airport Guideway	35	33	0	2
City Center Guideway	48	45	0	3
West Side Stations	21	17	0	4
Airport Section Stations	27	26	0	1
City Center Section Stations	14	14	0	0
Total	230	215	3	18

Note: October's Monthly Report understated Airport Guideway by one risk.

Comparison of Risk Ratings								
Contract Package/Section	October 2014 Update				November 2014 Update			
	Total	High	Medium	Low	Total	High	Medium	Low
Project Wide	4	1	3	0	5	1	3	1
WOFH Guideway	27	5	17	5	23	4	13	6
Maintenance and Storage Facility	6	1	4	1	6	0	5	1
Kamehameha Highway Guideway	28	2	20	6	24	2	17	5
Core Systems Contract	9	1	3	5	11	1	4	6
Elevator/Escalator	3	1	2	0	3	1	2	0
Airport Utilities	2	1	1	0	2	0	2	0
Pearl Highlands	6	0	6	0	6	1	5	0
West Side Stations	21	6	12	3	17	6	10	1
Airport Guideway	35	8	23	4	33	8	23	2
City Center Guideway	48	17	26	5	45	14	26	5
Airport Stations	27	4	22	1	26	4	20	2
City Center Stations	14	1	13	0	14	1	12	1
Total	230	48	152	30	215	43	142	30

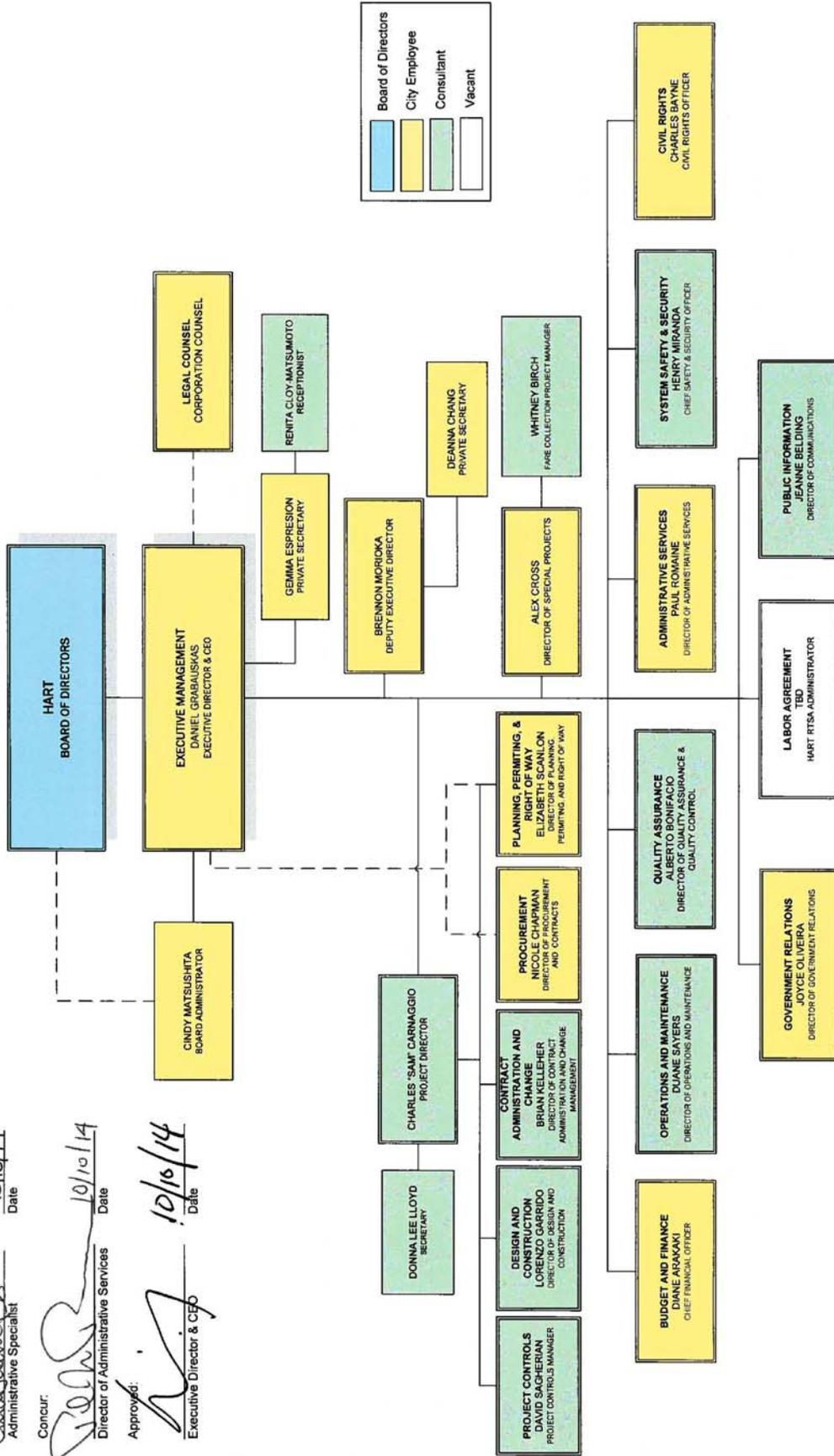
Note: Airport Guideway was reported with one less risk in October's Monthly Report.

Appendix G. Project Organization Chart

October 10, 2014

HONOLULU AUTHORITY FOR RAPID TRANSPORTATION (HART)

Prepared by: *[Signature]* Date: 10/10/14
 Administrative Specialist
 Concur: *[Signature]* Date: 10/10/14
 Director of Administrative Services
 Approved: *[Signature]* Date: 10/10/14
 Executive Director & CEO

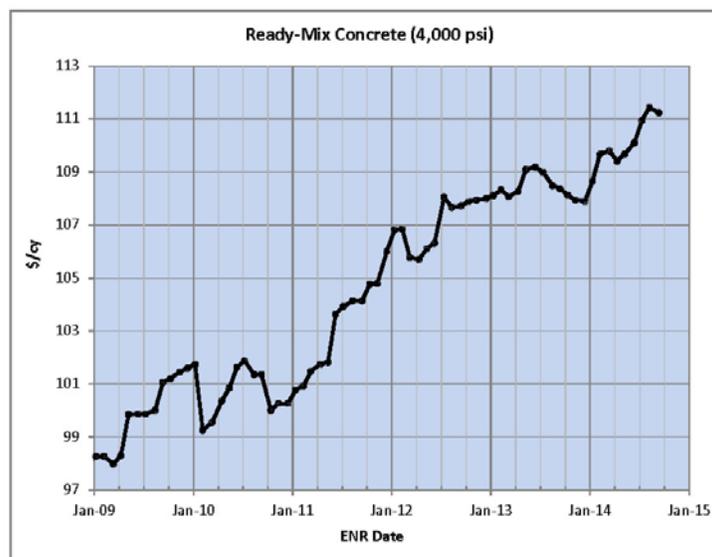
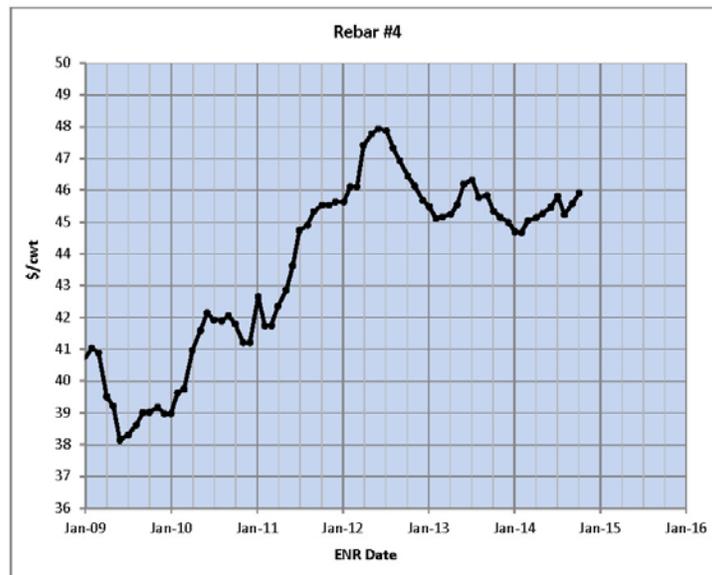
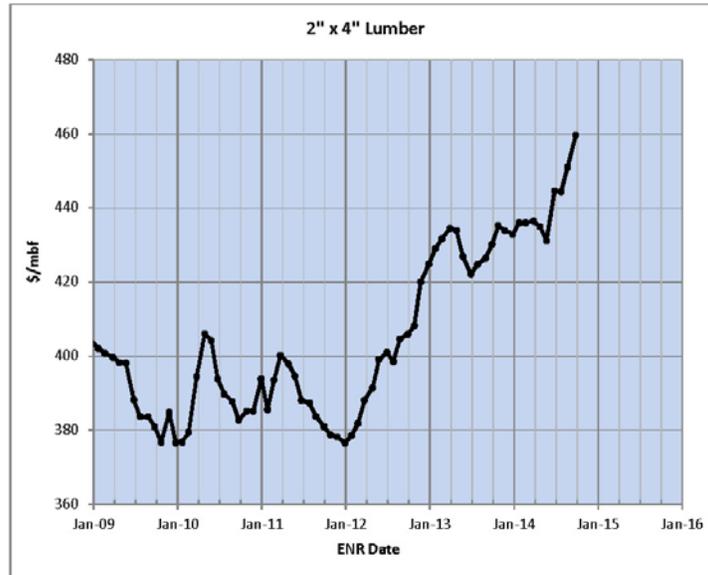


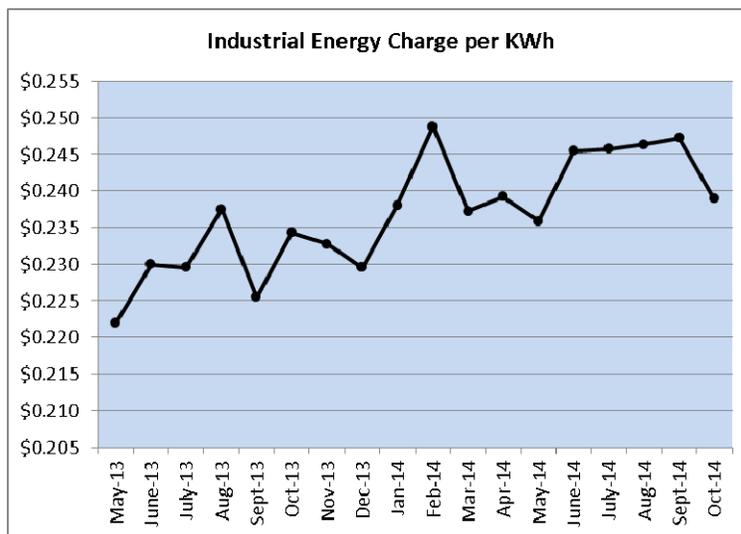
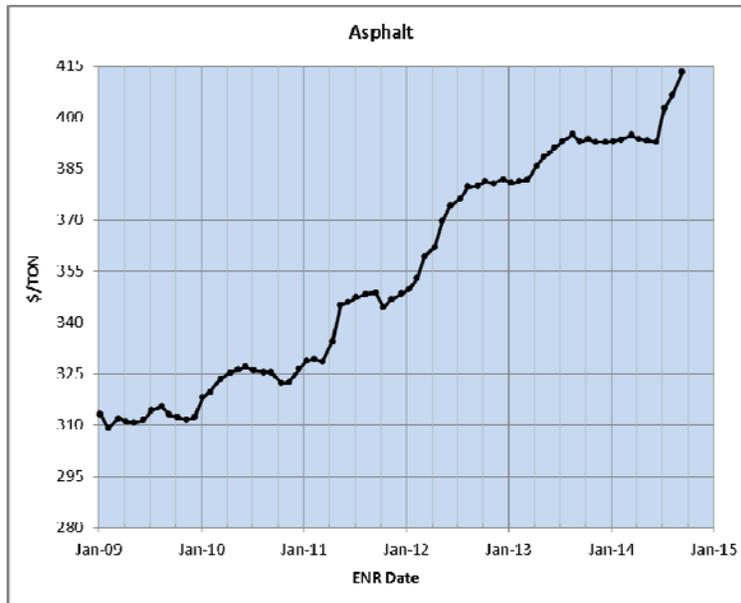
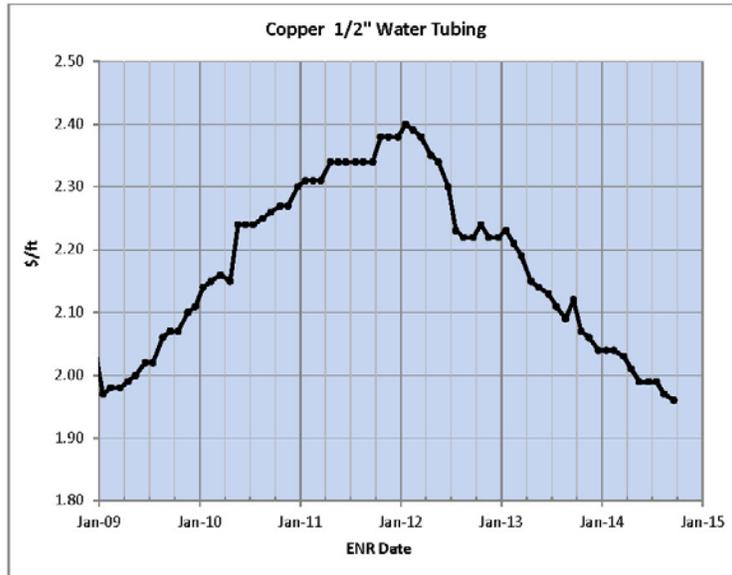
Legend for organizational chart boxes:

- Board of Directors (Blue box)
- City Employee (Yellow box)
- Consultant (Green box)
- Vacant (White box)

Appendix H. Indices on Key Commodities

The following charts represent the cost trends on some of the key materials used in the program.





Source: HECO: Effective Rate Summary for DS Rate

Appendix I. Project Photos



Guideway construction in West O'ahu.



Equipment storage site.



Balanced Cantilever construction near the H-1/H-2 Freeway merge.



Construction near the H-1/H-2 Freeways.



Construction along Kamehameha Highway.



Future Aloha Stadium Station.



Operations and Servicing Building (OSB).



Wheel Truing Building and OSB.



Maintenance of Way Building.



Casting Yard.

Appendix J. List of Acronyms

ACG	Airport City Center Guideway
AFE	Authorized for Expenditure
AHJV	Ansaldo Honolulu Joint Venture
AIS	Archaeological Inventory Survey
APTA	American Public Transportation Association
ARRA	American Recovery and Reinvestment Act
ASG	Airport Station Group
ATC	Automated Train Control
ATO	Automated Train Operation
BA	Buy America
BAC	Buy America Compliance
BACM	Buy America Compliance Matrix
BFS	Budget and Fiscal Services
BMP	Best Management Practice
BUE	Bottom-Up Estimate
CAR	Corrective Actions
CE&I	Construction Engineering and Inspection
CEL	Certifiable Elements List
CIL	Certifiable Items List
CMS	Contract Management System
CMU	Concrete Multiple Unit
CONRAC	Consolidated Rental Car Facility
COR	Corporation Counsel
CPM	Critical Path Method
CPP	Contract Packaging Plan
CSC	Core Systems Contract
CSL	Cross Hole Sonic Logging
CSOC	Core Systems Oversight Consultant
CTS	Communications Transmission System
CZM	Coastal Zone Management
DAGS	Department of Accounting & General Services
DB	Design-Build
DBB	Design-Bid-Build
DBE	Disadvantaged Business Enterprise
DBEDT	Department of Business, Economic Development and Tourism
DBOM	Design-Build-Operate-Maintain
DCN	Design Change Notice
DDC	Department of Design and Construction
DFIM	Design Furnish Install Maintain
DHHL	Department of Hawaiian Homelands
DHR	Department of Human Resources
DIT	Department of Information Technology
DKSG	Dillingham and Kaka'ako Station Group
DLNR	Department of Land and Natural Resources
DPM	Deputy Project Managers
DPP	Department of Planning and Permitting
DPS	Department of Public Safety
DTS	Department of Transportation Services
ECP	Environmental Compliance Plan
E/E	Elevator/Escalator
EMI	Electromagnetic Interference

EMP	Environmental Management Plan
EOR	Engineer of Record
EOS	Electrically Operated Switches
ESA	Engineering Services Agreement
FAA	Federal Aviation Administration
FAI	First Article Inspections
FAT	Factory Acceptance Tests
FD	Final Design
FDC	Field Design Change
FEIS	Final Environmental Impact Statement
FFC	Fixed Facility Contractors
FFGA	Full Funding Grant Agreement
FHSG	Farrington Highway Station Group
FTA	Federal Transit Administration
FTE	Full-Time Equivalent
FWS	Fish and Wildlife Service
GAT	Great Aleutian Tsunami
GDR	Geotechnical Data Report
GEC	General Engineering Consultant
GET	General Excise Tax
GIS	Geographic Information System
GSA	General Services Administration
HABS	Historic American Buildings Survey
HAER	Historic American Engineering Record
HALS	Historic American Landscape Survey
HART	Honolulu Authority for Rapid Transportation
HCC	Honolulu Community College
HCDA	Hawai'i Community Development Authority
HCSD	Hawai'i Capital Special District
HDOH	Hawai'i Department of Health
HDOT	Hawai'i Department of Transportation
HDPE	High-density polyethylene
HECO	Hawaiian Electric Company
HFD	Honolulu Fire Department
HHF	Historic Hawai'i Foundation
HHPRB	Hawai'i Historic Places Review Board
HP	Historic Preservation
HPC	Historic Preservation Committee
HPCA	Historic Preservation Certification Application
HPD	Honolulu Police Department
HPF	Historic Preservation Fund
HRHP	Hawai'i Register of Historic Places
H RTP	Honolulu Rail Transit Project
HTI	Hawaiian Telcom
ICD	Interface Control Documents
ICM	Interface Control Manual
INMS	Integrated Network Management System
ITP	Inspection and Test Plan
ITS	Intelligent Transportation Systems
JTMS	Joint Traffic Management System
JU&O	Joint Use & Occupancy
JUOA	Joint Use and Occupancy Agreement
KCDD	Kaka'ako Community Development District

KHG	Kamehameha Highway Guideway
KHSG	Kamehameha Highway Station Group
KIWC	Kiewit Infrastructure West Company
KKJV	Kiewit/Kobayashi Joint Venture
LCC	Leeward Community College
LEED	Leadership in Energy and Environmental Design
MIM	Manufacture-Install-Maintain
MMP	Mitigation Monitoring Program
MOT	Maintenance of Traffic
MOU	Memorandum of Understanding
MOW	Maintenance of Way
MPS	Master Project Schedule
MPSS	Master Project Schedule Summary
MPV	Multiple Purpose Vehicle
MS4	Municipal Separate Storm Sewer System
MSE	Mechanically Stabilized Earth
MSF	Maintenance and Storage Facility
MTM	Modern Track Machineries
NCE	Non-Conformance Evaluation
NCR	Non-Conformance Report
NDC	Notice of Design Change
NHL	National Historic Landmark
NOI	Notice of Intent
NPDES	National Pollution Discharge Elimination System
NPS	National Park Service
NR	National Register
NRHP	National Register of Historic Places
NTP	Notice to Proceed
NTS	Network Time Server
OCC	Operational Control Center
OCIP	Owner-Controlled Insurance Program
OIBC	O'ahu Island Burial Council
OSB	Operations and Servicing Building
OSHA	Occupational Safety and Health Administration
OTS	O'ahu Transit Services
OTW	Oceanic Time Warner
OTWC	Oceanic Time Warner Cable
PA	Programmatic Agreement
PARs	Preventative Actions
PB	Parsons Brinckerhoff, Inc.
PE	Preliminary Engineering
PICM	Project Interface Control Manual
PIM	Project Interface Manager
PLA	Project Labor Agreement
PM	Project Managers
PMC	Project Management Consultant
PMOC	Project Management Oversight Contractor
PMSC	Program Management Support Consultant
PPE	Personal Protective Equipment
PSG	Platform Screen Gate
PV	Passenger Vehicle
QA	Quality Assurance
QAM	Quality Assurance Manager

QAP	Quality Assurance Plan
QC	Quality Control
QMP	Quality Management Plan
QMS	Quality Management System
QTF	Quality Task Force
RCMP	Risk and Contingency Management Plan
RE	Resident Engineer
READ	Real Estate Acquisition Database
RFC	Request for Change
RFI	Requests for Information
RFID	Requests for Interface Data
RFMP	Rail Fleet Management Plan
RFP	Request for Proposals
RFQ	Request for Qualifications
ROC	Rail Operations Center
ROD	Record of Decision
ROE	Right of Entry
ROW	Right-of-Way
RR	Risk Register
RSD	Revenue Service Date
S-AIS	Supplemental Archaeological Inventory Survey
SCADA	Supervisory Control and Data Acquisition
SCAP	Stream Channel Alteration Permit
SCC	Standard Cost Category
SHPD	State Historic Preservation Division
SIC	Sandwich Isle Communications
SLAN	Station Local Area Network
SOG	Slab on Grade
SOI	Secretary of the Interior
SOW	Scope of Work
SQP	Supplemental Quality Plan
SSC	Safety Security Certification
SSCWG	Safety and Security Certification Working Group
SSI	Sensitive Security Information
SSSP	Site Safety Security Plan
SWPPP	Storm Water Pollution Prevention Plan
T&M	Time and Material
TCCR	Train Control and Communications Room
TES	Traction Electrification System
TIGER	Transportation Investment Generating Economic Recovery
TOC	The Outdoor Circle
TOD	Transit-Oriented Development
TPSS	Traction Power Sub-Station
TSA	Transportation Security Administration
TSI	Transportation Safety Institute
TVA	Threat and Vulnerability Analysis
UCA	Utility Construction Agreement
UFCRA	Utility Facilities Relocation and Cost Reimbursement Agreement
UH	University of Hawai'i
UHWO	University of Hawai'i West O'ahu
UPS	Uninterrupted Power Supply
USACE	U.S. Army Corps of Engineers
USDOT	U.S. Department of Transportation

VE Value Engineering
WA Work Area
WHS Waipahu High School
WOFH West O'ahu/Farrington Highway
WOSG West O'ahu Station Group
WSS West Side Stations
WSSG West Side Station Group
WTB Wheel Truing Building
YOE Year of Expenditure