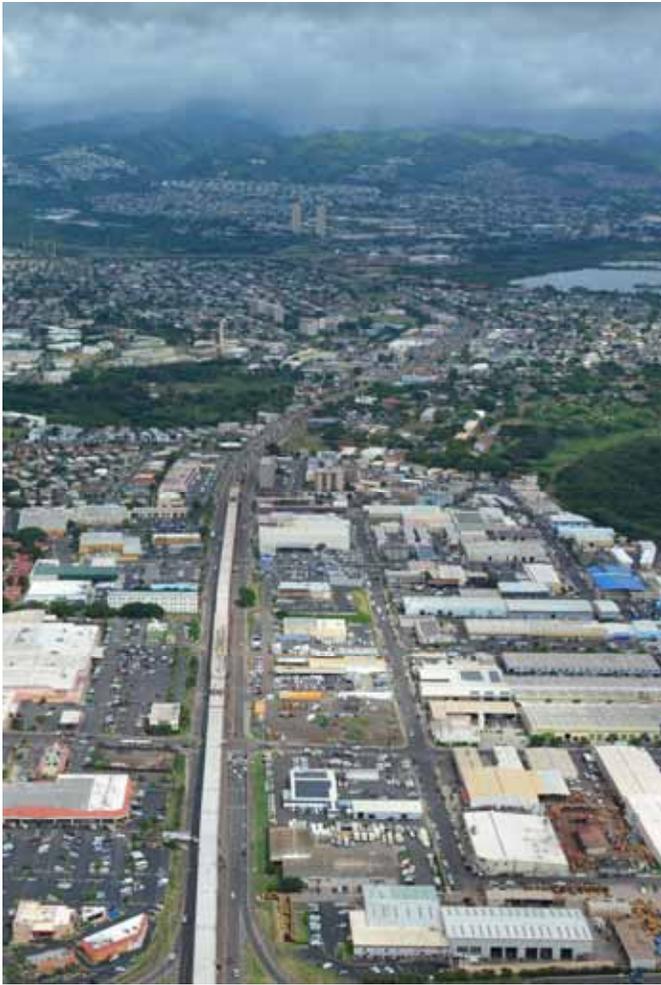


HONOLULU RAIL TRANSIT PROJECT



October 2015 MONTHLY PROGRESS REPORT



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THIRD PARTY DISCLAIMER

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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 near Waipahu High School.

Lower right: Rail Operations Center (aka Maintenance and Storage Facility) site.

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LIST OF ACRONYMS

AB	AnsaldoBreda	DPR	Department of Parks and Recreation
ACHP	Advisory Council on Historic Preservation	DPS	Department of Public Safety
ACS	Access Control System	DS	Downstream
AFE	Authorized for Expenditure	DTS	Department of Transportation Services
AGS	Airport Guideway and Stations	DVT	Design Verification Test
AHJV	Ansaldo Honolulu Joint Venture	ECP	Environmental Compliance Plan
AIS	Archaeological Inventory Survey	E/E	Elevator/Escalator
APTA	American Public Transportation Association	EMC	Electromagnetic Compatibility
ARRA	American Recovery and Reinvestment Act	EMF	Electromagnetic Forces
ASG	Airport Station Group	EMI	Electromagnetic Interference
ASU	Airport Section Utilities	EMP	Environmental Management Plan
ATC	Automated Train Control	EOR	Engineer of Record
ATO	Automated Train Operation	EOS	Electrically Operated Switches
AVA	Anil Verma Associates, Inc.	ESA	Engineering Services Agreement
BA	Buy America	FAA	Federal Aviation Administration
BAC	Buy America Compliance	FAI	First Article Inspections
BACM	Buy America Compliance Matrix	FAT	Factory Acceptance Tests
BAFO	Best and Final Offer	FD	Final Design
BCS	Balanced Cantilever System	FDAS	Fire Detection Alarm System
BFS	Budget and Fiscal Services	FDC	Field Design Change
BLS	Bureau of Labor Statistics	FEIS	Final Environmental Impact Statement
BMP	Best Management Practice	FFC	Fixed Facility Contractors
BOD	Board of Directors	FFGA	Full Funding Grant Agreement
BUE	Bottom-Up Estimate	FHSG	Farrington Highway Station Group
CAM	Construction Access Milestone	FLSWG	Fire Life Safety Working Group
CAR	Corrective Actions	FOCN	Fiber Optic Communication Network
CCGS	City Center Guideway and Stations	FTA	Federal Transit Administration
CCO	Contract Change Order	FTE	Full-Time Equivalent
CCTV	Closed Circuit Television	FWS	Fish and Wildlife Service
CDC	Compendium of Design Criteria	GAT	Great Aleutian Tsunami
CE&I	Construction Engineering and Inspection	GBS	Gap Breaker Station
CEL	Certifiable Elements List	GDR	Geotechnical Data Report
CIL	Certifiable Items List	GEC	General Engineering Consultant
CM	Construction Manager	GET	General Excise Tax
CMP	Corrugated Metal Pipe	GIS	Geographic Information System
CMS	Contract Management System	GSA	General Services Administration
CMU	Concrete Multiple Unit	GT	General Terms
CNMMP	Construction Noise Mitigation and Monitoring Plan	HA	Hazard Analysis
COI	Conflict of Interest	HABS	Historic American Buildings Survey
CONRAC	Consolidated Rental Car Facility	HAER	Historic American Engineering Record
COR	Corporation Counsel	HALS	Historic American Landscape Survey
CP	Consulting Party	HART	Honolulu Authority for Rapid Transportation
CPM	Critical Path Method	HCC	Honolulu Community College
CPP	Contract Packaging Plan	HCDA	Hawai'i Community Development Authority
CSC	Core Systems Contract	HCSA	Hawai'i Capital Special District
CSCC	Construction Specification Conformance Checklists	HDCC	Hawaiian Dredging Construction Company
CSL	Cross Hole Sonic Logging	HDOE	Hawai'i Department of Education
CSOC	Core Systems Oversight Consultant	HDOH	Hawai'i Department of Health
CSSP	Construction Safety & Security Plan	HDOT	Hawai'i Department of Transportation
CTS	Communications Transmission System	HDPE	High-density polyethylene
CWRM	Commission on Water Resource Management	HECO	Hawaiian Electric Company
CZM	Coastal Zone Management	HFD	Honolulu Fire Department
DAGS	Department of Accounting & General Services	HHF	Historic Hawai'i Foundation
DB	Design-Build	HHPRB	Hawai'i Historic Places Review Board
DBB	Design-Bid-Build	HIE	Hawaii Independent Energy
DBE	Disadvantaged Business Enterprise	HP	Historic Preservation
DBEDT	Department of Business, Economic Development and Tourism	HPC	Historic Preservation Committee
DBOM	Design-Build-Operate-Maintain	HPCA	Historic Preservation Certification Application
DCAB	Disability and Communication Access Board	HPD	Honolulu Police Department
DCCC	Design Criteria Conformance Checklists	HPF	Historic Preservation Fund
DCN	Design Change Notice	HRHP	Hawai'i Register of Historic Places
DDC	Department of Design and Construction	H RTP	Honolulu Rail Transit Project
DES	Department of Environmental Services	HTI	Hawaiian Telcom
DFIM	Design Furnish Install Maintain	HTL	Hazard Tracking Log
DFM	Department of Facility Maintenance	I&T	Inspection & Testing
DHHL	Department of Hawaiian Homelands	IAMR	Interstate Access Modification Report
DHR	Department of Human Resources	ICCS	Integrated Control and Communication Systems
DIT	Department of Information Technology	ICD	Interface Control Documents
DKSG	Dillingham and Kaka'ako Station Group	ICE	Independent Cost Estimate
DLIR	Hawai'i Department of Labor and Industrial Relations	ICM	Interface Control Manual
DLNR	Department of Land and Natural Resources	IDS	Intrusion Detection System
DOE	Department of Education	IJ	Insulation Joint
DOH	Department of Health	INMS	Integrated Network Management System
DOL	Department of Labor	ITP	Inspection and Test Plan
DPM	Deputy Project Managers	ITS	Intelligent Transportation Systems
DPP	Department of Planning and Permitting	JTMS	Joint Traffic Management System

JU&O	Joint Use & Occupancy	RAC	Rail Activation Committee
JUOA	Joint Use and Occupancy Agreement	RAMP	Real Estate Acquisition and Relocation Management Plan
KCDD	Kaka’ako Community Development District	RCMP	Risk and Contingency Management Plan
KCH	Kanehili Cultural Hui	RCP	Reinforced Concrete Pipe
KHG	Kamehameha Highway Guideway	RE	Resident Engineer
KHSG	Kamehameha Highway Station Group	READ	Real Estate Acquisition Database
KIWC	Kiewit Infrastructure West Company	RFC	Request for Change
KKJV	Kiewit/Kobayashi Joint Venture	RFI	Requests for Information
LCC	Leeward Community College	RFID	Requests for Interface Data
LEED	Leadership in Energy and Environmental Design	RFMP	Rail Fleet Management Plan
LPR	License Plate Reader	RFP	Request for Proposals
LRV	Light Rail Vehicle	RFQ	Request for Qualifications
MIM	Manufacture-Install-Maintain	ROC	Rail Operations Center
MMIS	Maintenance Management Information System	ROD	Record of Decision
MMP	Mitigation Monitoring Program	ROE	Right of Entry
MOT	Maintenance of Traffic	ROW	Right-of-Way
MOU	Memorandum of Understanding	RR	Risk Register
MOW	Maintenance of Way	RSD	Revenue Service Date
MPS	Master Project Schedule	RTM	Requirements Traceability Matrix
MPSS	Master Project Schedule Summary	RTSA	Regional Transit Stabilization Agreement
MPV	Multiple Purpose Vehicle	S1	Segment 1
MS4	Municipal Separate Storm Sewer System	SAIS	Supplemental Archaeological Inventory Survey
MSE	Mechanically Stabilized Earth	SCADA	Supervisory Control and Data Acquisition
MSF	Maintenance and Storage Facility	SCAP	Stream Channel Alteration Permit
MTM	Modern Track Machineries	SCC	Standard Cost Category
NCE	Non-Conformance Evaluation	SHPD	State Historic Preservation Division
NCR	Non-Conformance Report	SIC	Sandwich Isle Communications
NDC	Notice of Design Change	SIT	System Integration Testing
NEPA	National Environmental Policy Act	SLAN	Station Local Area Network
NHL	National Historic Landmark	SOG	Slab on Grade
NOI	Notice of Intent	SOI	Secretary of the Interior
NPDES	National Pollutant Discharge Elimination System	SOW	Scope of Work
NPS	National Park Service	SP	Special Provisions
NR	National Register	SQP	Supplemental Quality Plan
NRHP	National Register of Historic Places	SSC	Safety Security Certification
NSM	Negotiation Strategy Memo	SSCP	Safety and Security Certification Plan
NTP	Notice to Proceed	SSCWG	Safety and Security Certification Working Group
NTS	Network Time Server	SSI	Sensitive Security Information
O&M	Operations and Maintenance	SSMP	Safety and Security Management Plan
OCC	Operational Control Center	SSRC	Safety and Security Review Committee
OCIP	Owner-Controlled Insurance Program	SSSP	Site Safety Security Plan
OIBC	O’ahu Island Burial Council	STCC	Spec/Testing Conform Checklists
OIL	Open Items List	SWPPP	Storm Water Pollution Prevention Plan
OMPO	Oahu Metropolitan Planning Organization	T&M	Time and Material
ORCC	Operational Readiness Conformance Checklists	TCCR	Train Control and Communications Room
OSB	Operations and Servicing Building	TCP	Traffic Control Plan
OSHA	Occupational Safety and Health Administration	TCS	Train Control System
OTS	O’ahu Transit Services	TES	Traction Electrification System
OTW	Oceanic Time Warner	TIGER	Transportation Investment Generating Economic Recovery
OTWC	Oceanic Time Warner Cable	TOC	The Outdoor Circle
PA	Programmatic Agreement	TOD	Transit-Oriented Development
PAIS	Programmatic Agreement Implementation Schedule	TPO	Thermoplastic Olefin
PARs	Preventative Actions	TPSS	Traction Power Sub-Station
PB	Parsons Brinckerhoff, Inc.	TSA	Transportation Security Administration
PE	Preliminary Engineering	TSI	Transportation Safety Institute
PGC	Pacific Guardian Center	TVA	Threat and Vulnerability Analysis
PHA	Preliminary Hazard Analysis	TVM	Ticket Vending Machine
PICM	Project Interface Control Manual	TWF	Train Wash Facility
PIG	Permitted Interaction Group	UCA	Utility Construction Agreement
PIM	Project Interface Manager	UFCRRA	Utility Facilities Relocation and Cost Reimbursement Agreement
PLA	Project Labor Agreement	UH	University of Hawai’i
PLO	Priority-Listed Offerors	UHWO	University of Hawai’i West O’ahu
PM	Project Managers	UL	Underwriters Laboratories
PMC	Project Management Consultant	UPS	Uninterrupted Power Supply
PMIM	Project Management and Interface Management	USACE	U.S. Army Corps of Engineers
PMOC	Project Management Oversight Contractor	USDOT	U.S. Department of Transportation
PMSC	Program Management Support Consultant	VE	Value Engineering
PPE	Personal Protective Equipment	VRF	Variable Refrigerant Flow
PSG	Platform Screen Gate	WA	Work Area
PSGS	Platform Screen Gate System	WHS	Waipahu High School
PV	Passenger Vehicle	WL	West Loch
QA	Quality Assurance	WOFH	West O’ahu/Farrington Highway
QAM	Quality Assurance Manager	WOSG	West O’ahu Station Group
QAP	Quality Assurance Plan	WSS	West Side Stations
QC	Quality Control	WSSG	West Side Station Group
QMP	Quality Management Plan	WTB	Wheel Truing Building
QMS	Quality Management System	WYL	West Yard Lead
QTF	Quality Task Force	YCB	Yard Control Bungalow
R&R	Revise & Re-submit	YOE	Year of Expenditure



PROGRESS REPORT SUMMARY OF CHANGES

The following is a brief summary of changes that have occurred from the previous month's report. For more information and detail, please refer to the respective pages in the report.

Project Contingency

- The current contingency balance has decreased. Please see pages 14-15.

Project Funding

- The Section 5309 New Starts Revenue amount received has increased. Please see pages 16-17.
- The total amount of cash received has increased. Please see pages 16-17.

Project Revenue and Costs

- The ending cash balance amount has decreased. Please see page 18.

Contracts in Procurement

- Two contracts were issued NTP, and one contract was awarded. Please see pages 24 and 117.

Contract Status

- Core Systems Contract (CSC)
 - Project pictures have been added to the contract page. Please see page 28.
- West O'ahu/Farrington Highway Guideway (WOFH)
 - The contractor's forecasted substantial completion date has shifted to an earlier date, reflecting less than 6 months delay to completion date. Please see page 32.
- West O'ahu Station Group (WOSG)
 - The WOSG construction contractor was issued a full Notice to Proceed in October 2015. From the November 2015 Progress Report and on, a contract page for the construction contract will be included in the Progress Report. The WOSG FD contract page will be removed from the Progress Report, and any updates related to design will be covered in the WOSG construction contract page. Please see page 36.
 - The incurred-to-date amount has decreased. Please see page 36.
- Kamehameha Highway Guideway (KHG)
 - The contractor's forecasted substantial completion date has shifted to a later date, reflecting a year's delay to the completion date. Please see page 44-45.
 - The current contract value has increased. Please see page 44.
- Construction Engineering & Inspection East Side Sections
 - The incurred-to-date amount has decreased. Please see page 67.
- Construction Engineering & Inspection (CE&I) II Contract
 - A contract page for the CE&I II contract has been included. Please see page 68.

Utility Agreements

- The Utility Agreements Status table has been updated to reflect outstanding agreements, pending amendments, and any applicable MOUs. Please see page 74.

Right-of-Way

- One relocation has been completed for occupants in the City Center section. Please see page 78.

Safety and Security

- A status chart for Safety and Security Certification Certificates has been included. Please see page 88.

Risk Management

- The total number of risks in the risk register has decreased. Please see pages 94-97 and 122.
- The “Airport Guideway” and “Airport Stations Group” risks have been combined under the “Airport Guideway and Stations” contract in the Risk Register. Please see page 122.

Staffing

- The actual number of employees has increased. Please see page 100.

1 EXECUTIVE SUMMARY

KEY ACTIVITIES THIS MONTH

Project Overview

HART's first two rail cars are now in final assembly at the Ansaldo Breda plant in Pittsburg, California.

Rail cars 3 and 4 have been shipped from the manufacturing plant in Reggio Calabria, Italy and are currently on their way to join the other two rail cars at final assembly in California.

HART's vehicle fleet will eventually number 80 and will move thousands of passengers congestion-free on the first fully-automated driverless metro rail system in the United States.

The first vehicle is scheduled to arrive in Honolulu in the first half of next year.

Meanwhile, work at HART's Maintenance and Storage Facility in Waipahu is more than 80 percent complete. Early next year, the facility will be ready for the delivery and testing of HART's first train cars. Work on the Maintenance and Storage Facility is expected to be complete in the first half of 2016.

Transit-Oriented Development

To gain more feedback in creating a Halawa Area Transit-Oriented Development (TOD) Plan, the Department of Planning and Permitting (DPP) held a second community workshop for residents and businesses.

Several concepts were discussed for potential new development, circulation improvements, and public spaces surrounding the Aloha Stadium rail station. Concepts discussed included:

- New entertainment, retail and diverse housing opportunities
- Creation of an employment center
- Improved pedestrian connections, crossing of major roadways, and access from rail to Pearl Harbor Visitors Center and other destinations
- Network of open spaces/gathering spaces, connected by trails, greenways and walkways

HART participates as part of on-going collaboration with Aloha Stadium, DPP and State Department of Accounting & General Services.

Cost:

Project Costs Summary Through Sept. 25, 2015		
	Current Budget (\$M)	Incurred To Date (\$M)
Project Budget	\$4,455.8	\$1,726.7
Project Contingency	\$492.8	\$0.5
Finance Charges*	\$173.1	\$0.0
TOTAL	\$5,121.7	\$1,727.2

* \$173.1 million represents the project debt financing costs that are federally eligible. The total estimated debt financing costs of the project is \$215 million, per the FFGA Financial Plan.

Schedule:

Project Progress* Through Sept. 25, 2015				
	Actual		Early Plan	Late Plan
Overall Project Progress	39.2%		63.4%	54.6%
Overall Construction Progress	30.7%		56.2%	46.6%
Overall Design Progress	87.1%		98.9%	96.7%
Overall Utilities Progress	34.5%		73.0%	58.7%

*All progress charts reflect early program expectations regarding the type of contract, timing of award, design, and execution of the nine western stations, eastern guideway and stations, and utilities work. These contracts have been repackaged and rescheduled to later dates and once the overall schedule is rebaselined, the cost curves will be revised to reflect the contract approved dates at that time.

HART presented to the Board of Directors at the October meeting, regarding the status of budget and schedule. Forecasts indicate an increase to project costs and a completion in 2021.



Overview:Core Systems Contract (CSC)

The CSC contractor is continuing to progress through Final Design. Qualification and design verification tests are ongoing; completing passenger vehicle, communications and UPS tests. Construction interface with the MSF contractor (KKJV) is ongoing, with AHJV on site finalizing the Yard Control Bungalow (YCB) walls and roof structures. MSF Switch machines arrived on site and preliminary installation started. Installation activities are underway for the first two carshells; the third and fourth carshells (to complete the first train) are in transit. (See Section 4.1.A for details)

Elevators and Escalators Manufacture-Install-Maintain Contract

The Elevator/Escalator contractor has completed final design for the WOSG, FHSG and KHSG stations. The manufacturing of the required elevator and escalator equipment for these stations can be released once the respective contractor's schedules have been submitted and approved. The NTP for both FHSG and WOSG have been issued. The contractors for both projects must provide an acceptable schedule in order for the manufacturing of the FHSG and WOSG equipment to be released; this has not yet occurred for either project. The KHSG contract was advertised in August and the contract is planned to be awarded by the end of this year. (See Section 4.1.B for details)

West O'ahu Farrington Highway (WOFH) Contract

HART and Kiewit Infrastructure West Company (KIWC) continue to work together to ensure that quality and safety are the highest priorities. HART continues to monitor KIWC production rates as it relates to potential schedule impacts. KIWC submitted a revised baseline schedule dated October 2014 for which production is measured against. The most recently submitted progress schedule, through September 2015, reflects a nearly six month delay to the contractual substantial completion date specific to the LCC portables, parking lot, and access structure operations. KIWC and HART continue to work together to mitigate the impacts to the critical path activities. A revised baseline schedule was submitted by KIWC in August 2015. It is anticipated that a Contract Change Order required to update the substantial completion date and associated baseline acceptance will follow. In October 2015, Heading #2 was assembled at Span 250, Work Area 4, by Waipahu High School and will progress westward towards Waipahu Transit Center Station. (See Section 4.2.A for details)

Maintenance and Storage Facility (MSF) Contract

The contractor is continuing to install power distribution panels and wiring within the OSB, MOW and WTB. CMU construction started for the Train Wash Facility. Signal and train control conduit installation continues in the yard. Installation of rail is continuing for the tracks heading toward the Train Wash Facility and the East Yard Lead. The contractor installed the wheel lathe in the WTB and is completing the assembly of appurtenant parts. Siding, painting, HVAC, and finishing are continuing for the OSB, MOW and WTB, as well as mechanical, electrical and plumbing installations. (See Section 4.2.D for details)

Kamehameha Highway Guideway (KHG) Contract

Construction of columns has been completed from Acacia Road west, to intersect the WOFH contract. The remaining columns to be constructed are on hold pending workers and equipment to become available from the WOFH contract. Discussions with HECO are being held at an elevated level to coordinate the schedule of work to minimize project delays. ROE for utility relocations are nearing completion, with work anticipated to start once utility ROE has been received. HART and HDOT are working together to achieve concurrence on betterment costs and funding. Per KIWC's progress schedule, as submitted with the application for payment, the contract is seven months behind schedule for guideway structure. (See Section 4.3.A for details)

Airport Section Utilities (ASU) Construction Contract

The Airport Section Utilities contract continues to be impacted by differing and unforeseen site conditions. In spite of these impediments, work is proceeding along Kamehameha Highway, Airport and the Nimitz Off-Ramp area. On Sept. 2, Nan was notified that work related to the telecom duct bank at Valkenburgh would be deleted from the contract. Nan continues to progress on utility relocation along Kamehameha Highway. (See Section 4.4.B for details)

2 OVERALL PROJECT PROGRESS AND FINANCIALS

2.1 Project Progress (data as of Sept. 25, 2015)

All progress charts reflect early program expectations regarding the type of contract, timing of award, design, and execution of the nine western stations, eastern guideway and stations, and utilities work. These contracts have been repackaged and rescheduled to later dates and once the overall schedule is rebaselined, the cost curves will be revised to reflect the contract approved dates at that time.

Note:

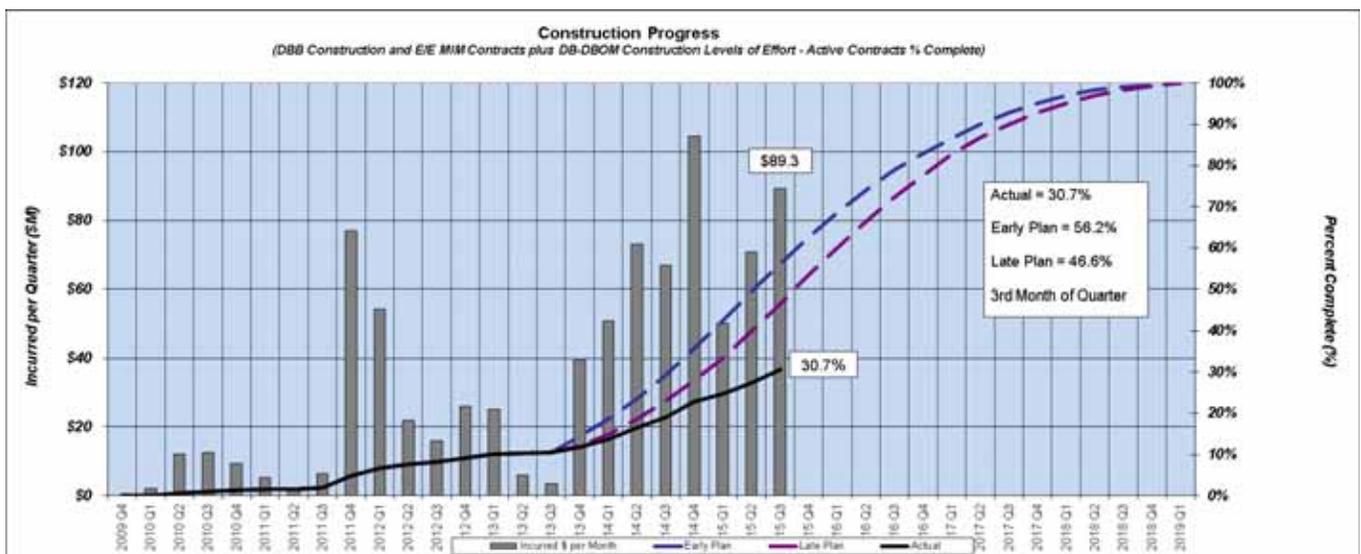
- Actual = Actual cost of work performed, based on invoiced-to-date amount.
- Early Plan = Earliest dates activities can begin and finish, based on logic and durations used in the schedule.
- Late Plan = Latest dates activities can begin and finish and not have an impact on completion date, based on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

Figure 1. Overall Project Progress (% Complete)



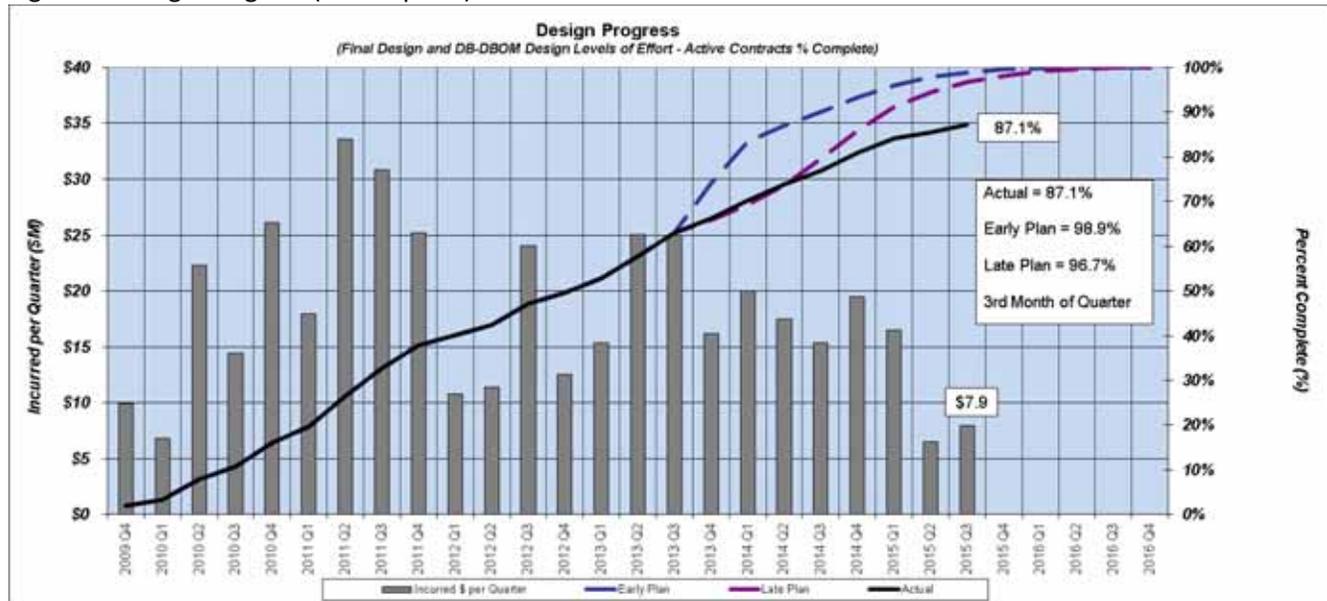
At present “overall” project progress is based on the weighted value progress of the individual construction and design contracts (Design-Build [DB], Design-Bid-Build [DBB], Design-Build-Operate-Maintain [DBOM], Elevator/Escalator Manufacture-Install-Test-Maintain [MIM], Final Design [FD] and DB-DBOM 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)



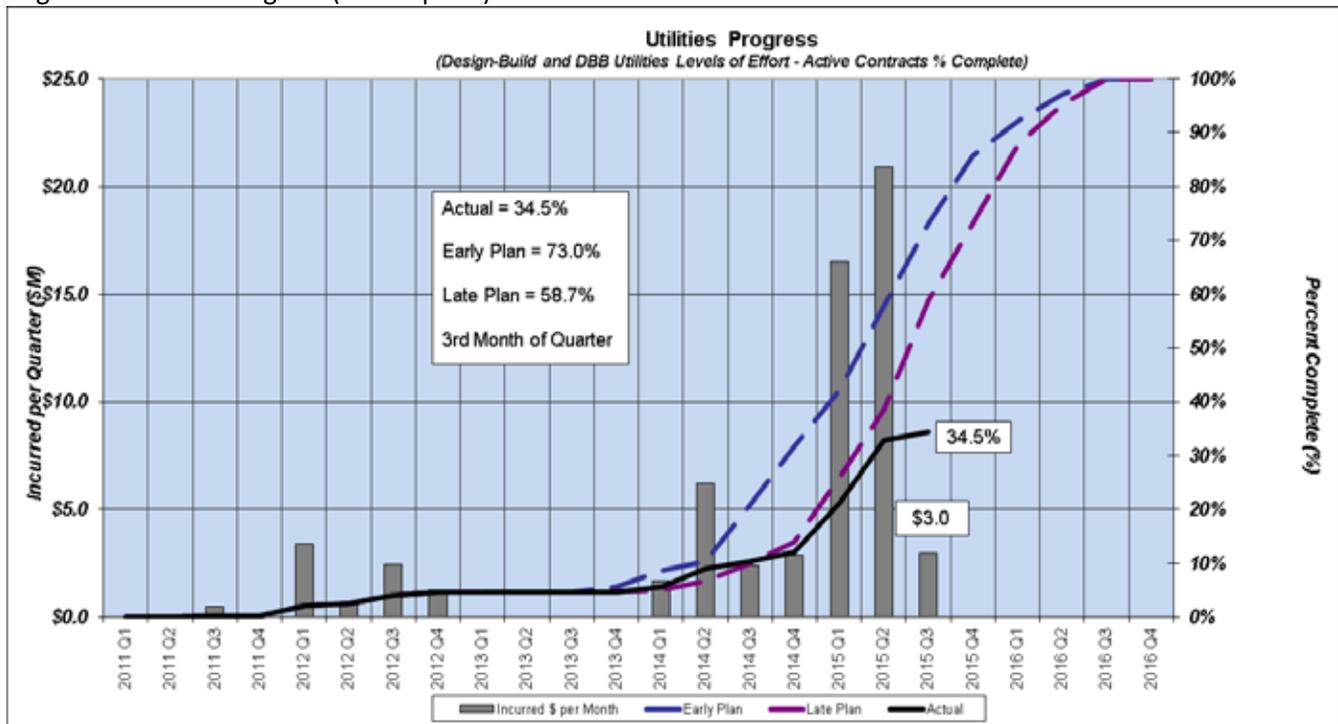
Overall construction progress is based on the weighted average progress of the individual DBB and E/E MIM construction contracts and the DB-DBOM construction levels of effort, not including consultant construction engineering and inspection (CE&I) services.

Figure 3. Design Progress (% Complete)



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 Sept. 25, 2015)

- FFGA Project Budget = **\$5,121.7M**
 - Current Project Budget - \$4,455.8M
 - Current Project Contingency - \$492.8M
 - Project Finance Charges - \$173.1M

*Total Incurred Cost = \$1,727.2M
(previous report = \$1,671.1M)*

- HART presented to the Board of Directors at the October meeting, regarding the status of budget and schedule. Forecasts indicate an increase to project costs and a completion in 2021.
- Total Incurred Cost = **\$1,727.2M** (38.8% of current project budget)
 - September 2015 Incurred Cost = \$56M

2.3 Project Contingency (data as of Sept. 25, 2015)

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

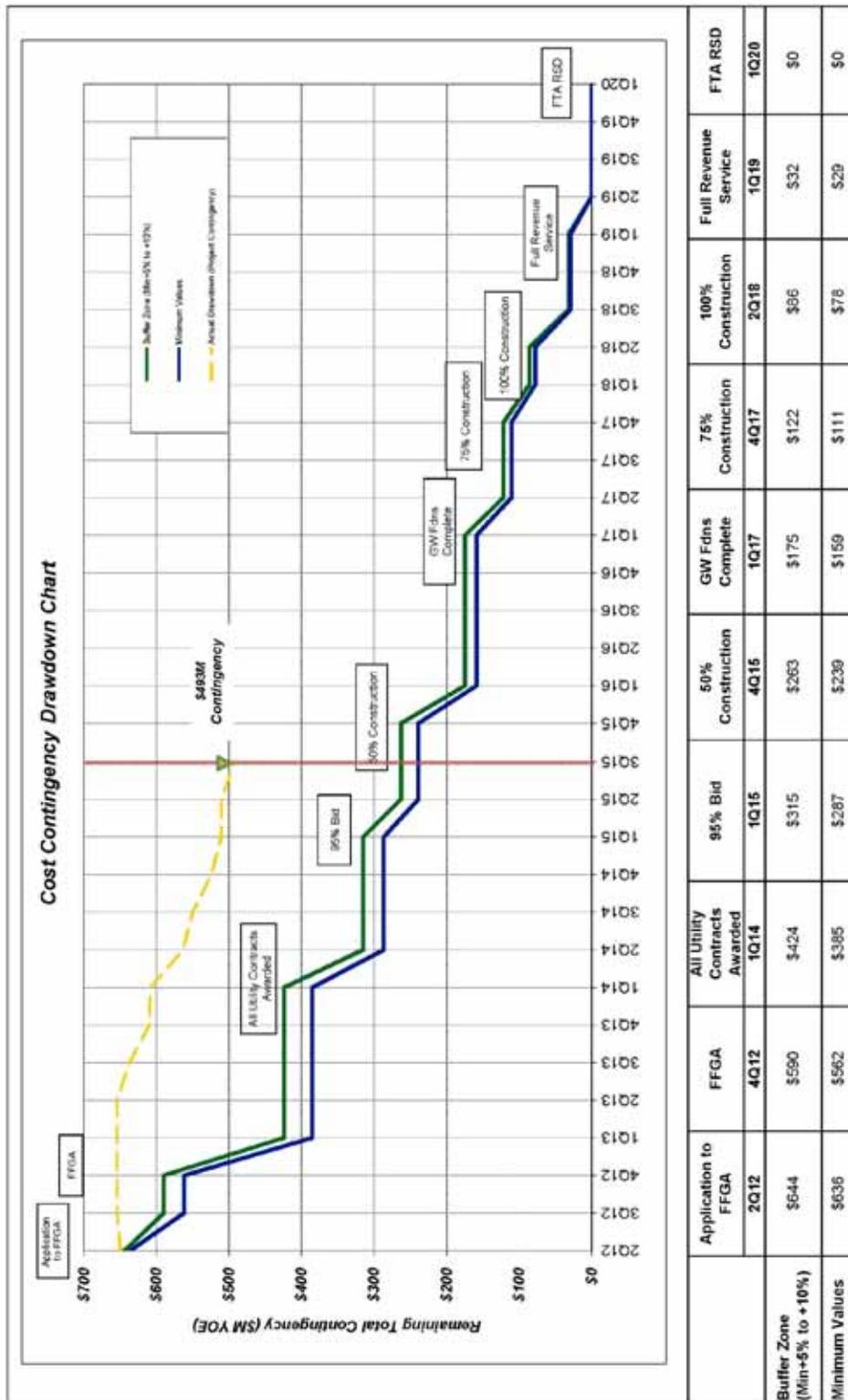
*Current Contingency Balance = \$492.8M
(previous report = \$492.9M)*

- Current Project Contingency Balance = **\$492.8M**
 - Contingency drawdown to date – \$150.8M (23.4% of baseline project contingency budget)
 - \$0.1M contingency drawdown during September 2015. Please see Appendix B for more details.

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 July 2015 Report	90.01 - 90.03	(\$141.9)
Contingency drawdown August 2015 Report	90.01 - 90.03	(\$1.0)
Contingency drawdown September 2015 Report	90.01 - 90.03	(\$7.8)
Contingency drawdown October 2015 Report	90.01 - 90.03	(\$0.1)
Contingency drawdown to date	90.01 - 90.03	(\$150.8)
Current FFGA Project Contingency	90.01 - 90.03	\$492.8

Figure 6. Draft Cost Contingency Drawdown Chart



Data as of 9/26/15 - Sep '15 Reporting Period

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 Sept. 25, 2015)

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	n/a
Interest Income on Cash Balance	7	3	2	9
FTA Section 5309 New Starts Revenue ⁴	0	1,550	447	447
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	1143	1,521
Total	385	5,356	1,894	1,981

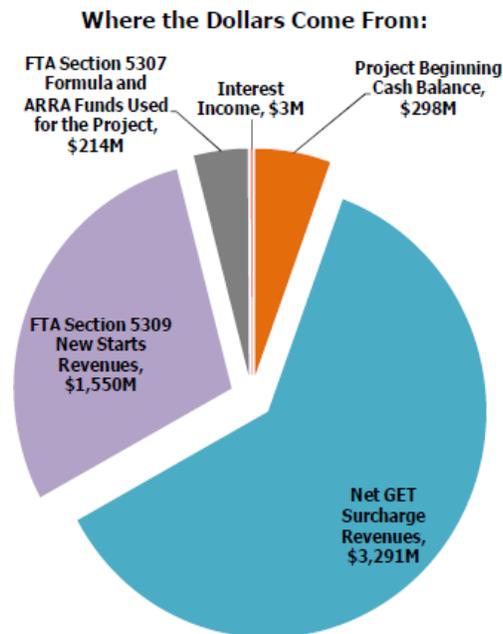
¹ GET and Interest Income received during Pre-Preliminary Engineering (pre-PE) phase prior to entry into PE

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) = Pre-PE GET, investment and miscellaneous income minus pre-PE expenditures. The \$298 million is included in the Pre-FFGA actual amounts received between 2007-2009 of \$378 million.

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 (data as of Sept. 25, 2015)
 - \$1,143M = amount received since the Project’s entry into FTA’s Preliminary Engineering phase of project development.
 - \$1,182M = Projected Net GET Surcharge Revenue for FYs 2010-1Q 2016, as stated in FFGA Financial Plan (Table A-1 *Capital Plan Cash Flows*)
 - GET receipts are currently running 3% short of projections to date, or \$39M behind.
 - \$39M shortfall is approximately 1.2% of the total GET surcharge projections per the FFGA Financial Plan of \$3.291B.
 - \$0 = GET surcharge received in September 2015.

Total Cash Received Since PE = \$1,894M
 (previous report = \$1,893M)

GET Received Since PE = \$1,143M
 (previous report = \$1,143M)

GET Received Since 2007 = \$1,521M
 (previous report = \$1,521M)

- Full Funding Grant Agreement (FFGA)
 - \$1.3M = New Starts drawdown processed and received in September 2015.
- The §5307 funds for the Project, per the Financial Plan, are \$210M.
- HART presented to the Board of Directors at the October meeting, regarding the status of budget and schedule. Forecasts indicate an increase to project costs and a completion in 2021. The financial plan is currently being updated.

Figure 9. New Starts Drawdown by Federal Fiscal Year (data date as of Sept. 25, 2015, per the FTA TEAM website)

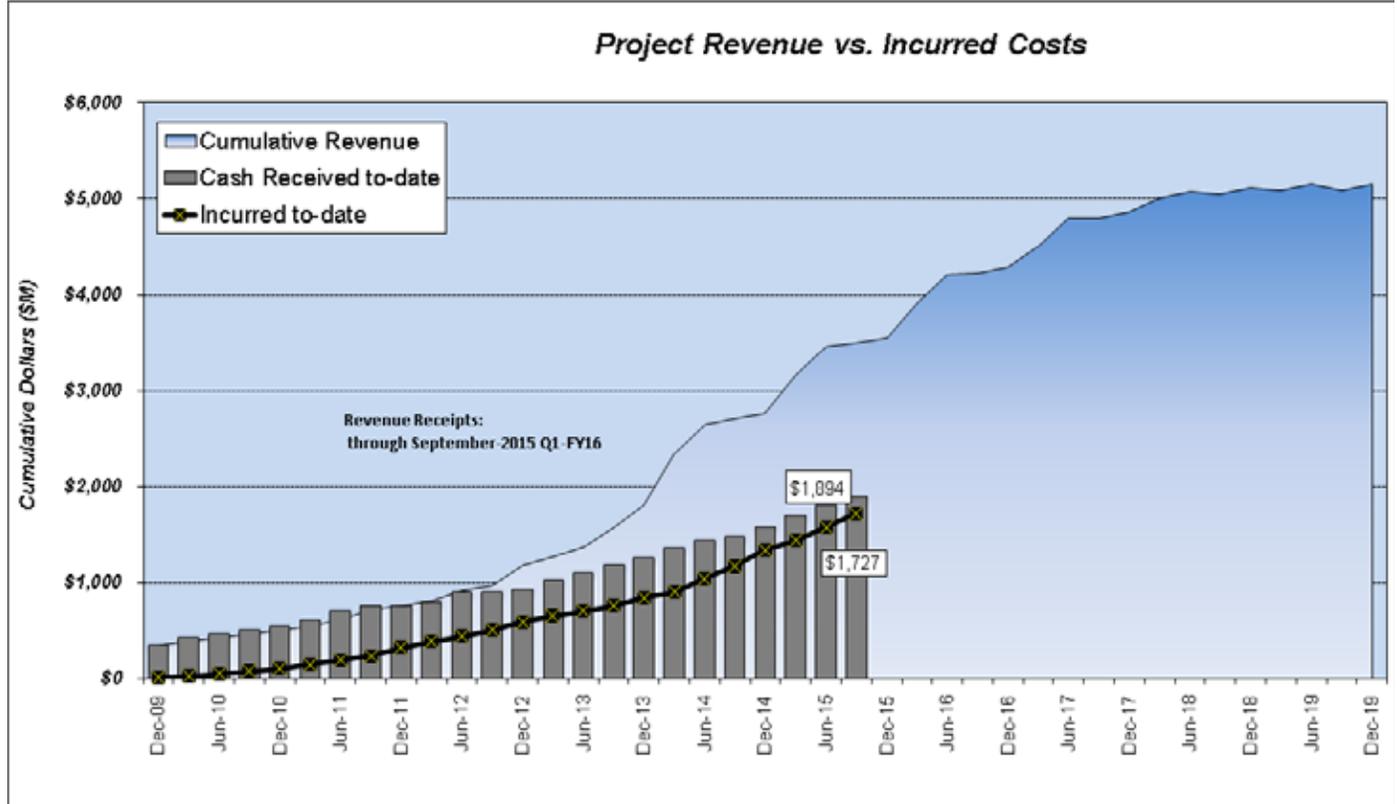
New Starts Grant Information by Federal Fiscal Year				
Federal Fiscal Year Allocation	Obligated Amounts	Actual Drawdown Amounts to Date	Available Balance	FFGA Base Case Cash flow
2008	\$15,190,000	\$15,190,000	\$0	
2009	\$19,800,000	\$19,800,000	\$0	
2010	\$30,000,000	\$30,000,000	\$0	
2011	\$55,000,000	\$55,000,000	\$0	\$20,607,242
2012	\$200,000,000	\$200,000,000	\$0	\$99,382,758
2013	\$236,277,358	\$127,019,679	\$109,257,679	\$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	\$447,009,679	\$1,102,990,321	\$1,550,000,000

2.5 Project Revenue and Costs

(data as of Sept. 25, 2015)

Ending Cash Balance 9/30/15 = \$232.1M
(previous report = \$292M)

Figure 10. Project Revenue versus Incurred Costs



Planned Funding levels as per the June 2012 FFGA Finance Plan
Data date for Revenue & Incurred Cost = Sept. 25, 2015

Figure 11. Cash Balance Summary

SEPTEMBER 2015 CASH BALANCE SUMMARY		
	SEPTEMBER	FY16 YTD Cumulative
Beginning Cash Balance 09/01/15	291,972,796	293,010,823
Expenditures:		
Operating Expenditures	(1,125,751)	(3,282,577)
Capital Expenditures	(60,225,565)	(145,543,029)
Expenditures Total:	(61,351,316)	(148,825,606)
Receipts:		
GET Surcharge	0	52,330,383
FTA Drawdown	1,456,576	35,503,048
Interest	15,734	42,423
Other (rental, refunds, copy fees, etc.)	9,039	41,757
Receipts Total:	1,481,348	87,917,611
Ending Cash Balance 09/30/15	232,102,828	232,102,828

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

3 SCHEDULE

(data as of Sept. 25, 2015)

OVERVIEW

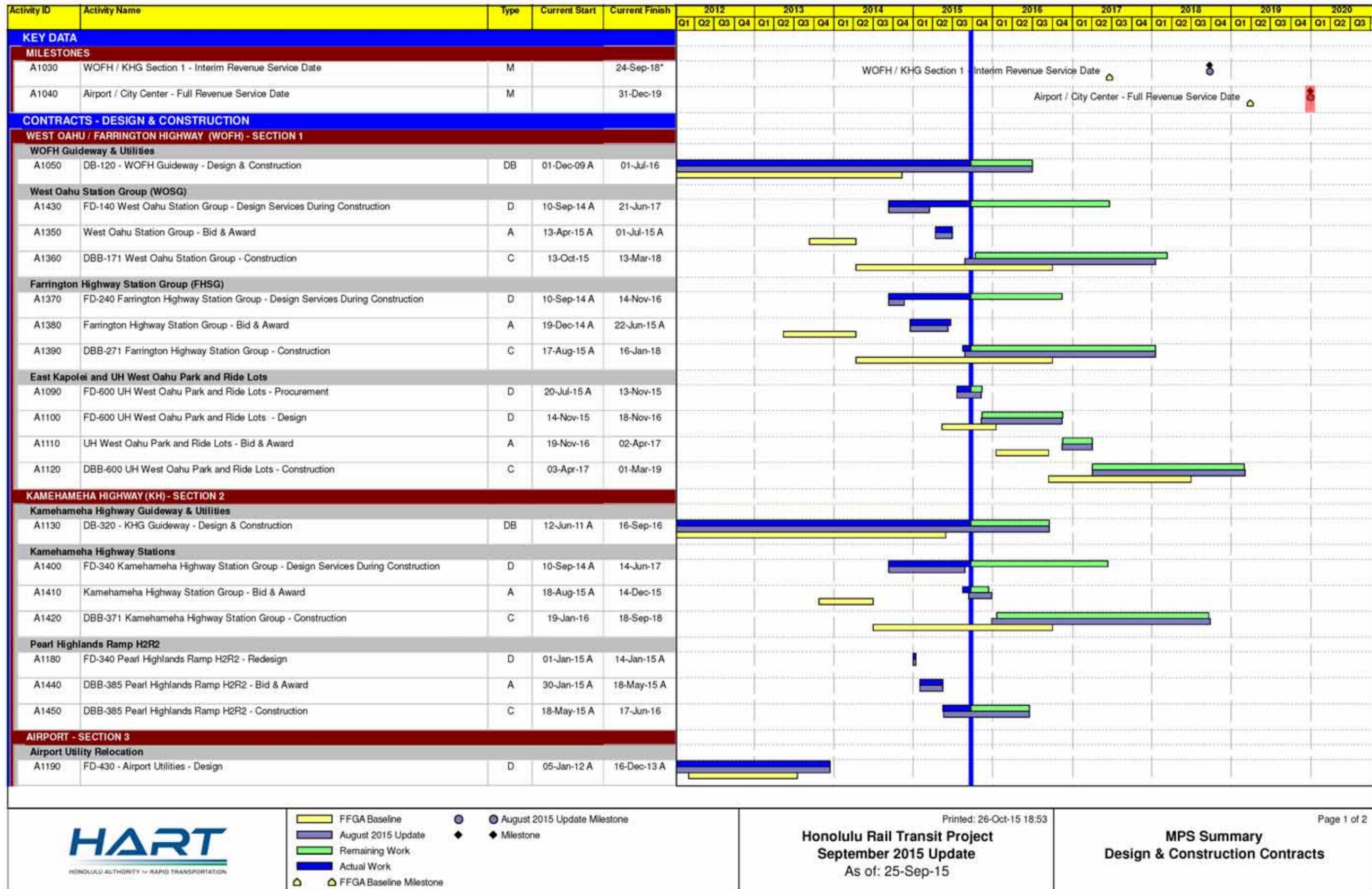
- HART presented to the Board of Directors at the October meeting, regarding the status of budget and schedule. Forecasts indicate an increase to project costs and a completion in 2021.
- The Master Program Summary Schedule reflects currently approved schedule end dates for contracts that have been awarded, and planned dates for future contracts. The schedules in the Contract Status section (Section 4) reflect current contractor forecast end dates for contracts that have been awarded.
- H2R2 Ramp (DBB-385), WOSG (DBB-171) and FHSG (DBB-271) contractor schedules will be added to this report as soon as baseline schedules are accepted by HART. Until accepted contractor schedules become available, placeholder schedules spanning the contract dates are displayed in the contract sections of this report.
- HART continues to closely monitor, review and manage all active construction packages. Previously reported delays continue to be addressed by the project teams. See contract pages for further details.

KEY ISSUES

- WOFH civil and structural construction work is behind approved planned schedules.
- KHG guideway construction contractor progress is behind approved planned schedules.
- Right-of-way acquisition, third-party interface and utility relocations continue to be areas of concern for program completion.

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

The Master Program Summary Schedule reflects currently approved schedule end dates for contracts that have been awarded, and planned dates for future contracts. It is statused against the FFGA Baseline MPS. Active contracts' end dates will not change, unless a change order is issued. For the contractors' forecasts of active contracts end dates, see Contract Status section (Section 4).



4 CONTRACT STATUS

Core Systems Contract (Section 4.1.A)

OVERVIEW

- Vehicle Aluminum Carshell Manufacturing is moving forward in Reggio Calabria, Italy – The third and fourth carshells are still in transit to California. Work continues on the 4th and 5th carshells.
- Final Assembly of Train 1 continues to ramp up with cabling and raceway assembly work underway.
- Progressing with sub-system testing and design verification activities.
- Yard Control Bungalow construction is underway – Construction of the walls and roof slab are complete.
- Traction Power Cable installation continues; currently installing power feeds to the MSF TPSS.

KEY ISSUES

- Revisions to the station and guideway Construction Access Milestone (CAM) dates might affect substantial completion of the Core Systems Contractor's work. HART and the CSC will evaluate the full extent of potential impact once we have clarity of the expected CAM dates. This issue is being addressed in CSC RFCR # 18.
- Vehicle Production and Testing is an ongoing monitored risk. Carshell production experienced some challenges and delays in the initial assembly of key components that affected the completion and shipment of the first carshell. Final Assembly of the first vehicle may have similar challenges. HART and CSC will continue to work together to plan and respond to the issues as they arise.

Fare Collection System (Section 4.1.C)

OVERVIEW

- Fare Systems Technical Consultant Contract awarded to CH2M Hill on Sept. 24, 2015, for a term of five years.
- Based upon requests from potential Offerors, the deadline for receipt of proposals for the Fare Systems Contract currently in RFP stage was extended again to Nov. 13, 2015, with BAFO anticipated in early January 2016, and award by the end of January 2016.

KEY ISSUES

- Completing legal review of MOU for O&M cost sharing between HART and the City.
- Begin review of Fare System Offeror bids.

West O'ahu Farrington Highway Guideway (Section 4.2.A)

OVERVIEW

- Leeward Community College (LCC) Portables and Parking Lot Change Order – LCC construction is ongoing with excavation, compaction, grading and utility relocation activities in the parking lot area. The delivery of the portable buildings began mid-October 2015, and is scheduled to be completed in November 2015.
- Balanced Cantilever System (BCS) Form Advancement – BCS construction is progressing. All pier tables are complete. Segment casting and stressing is proceeding in both eastward and westward directions from Piers 253, 254 and 255. All segments for Pier Table 253 and 254 are approaching completion.
- Span by Span Advancement – All truss work and segment erection on the westward portion of the alignment has been completed. Heading #2 at Span 250, Waipahu High School, Work Area 4 is currently progressing westbound. East-bound spans have been erected by West Loch Station and are proceeding towards Waipahu Station. Heading #3 has been assembled in the area around the Pearl Highlands Station and two spans have been erected towards the eastern end of the WOFH segment.

KEY ISSUES

- Intersection Closure for Span by Span Operation (for additional detail, see 4.2.A Key Issues)
- Track Construction Operations (for additional detail, see 4.2.A Quality Management)

Maintenance and Storage Facility (Section 4.2.D)OVERVIEW

- Power distribution panels within the OSB, MOW and WTB, and pulling of power distribution conductors is ongoing including the shop traction power positive and negative returns in the OSB shop area. The vendor, General Electric, tested power distribution transformers.
- Primary power supply is complete; energizing of distribution power is upcoming.
- Contractor commenced CMU wall construction for the Train Wash Facility.
- Signal and train control conduit installation continues in the yard.
- Installation of rail is continuing for the tracks heading toward the Train Wash Facility and the East Yard Lead at the east end of the site.
- The contractor installed the wheel lathe in the WTB and is completing the assembly of appurtenant parts.
- Siding, painting, HVAC, and finishing are continuing for the OSB, MOW and WTB, as well as mechanical, electrical and plumbing installations. Construction of trash enclosure foundation structure east of the OSB is complete. Construction of slab on grade commenced in the OSB shop area.

KEY ISSUES

- Coordination with the abutting WOFH main line contract for completion of site access in the east and west yards, including rail, vehicular access and utility interconnection.
- Preparation for the receipt of rail car delivery is underway including design of an unloading area on the maintenance track adjacent to the OSB.
- Orderly completion of traction power, train control and building services raceways for turnover to Core Systems Contractor.
- Establish telephone service as necessary for building occupancy (elevator and fire alarm).
- Install fire pump for building occupancy.

Kamehameha Highway Guideway (Section 4.3.A)OVERVIEW

- Construction of Drilled Shafts – With the mobilization of the LB44, KIWC currently has 2 drill spreads on KHG. One-third of the KHG shafts have been completed. Anomalies and defects on the KHG shafts have been minimal to date. Drilled shafts are being constructed ahead of the planned rate. Currently, the LB44 is not working due to holiday traffic impact to local businesses along the alignment.
- Relocation of Utility Poles – Relocation of utility pole 51 at TMK 9-8-008-029 is pending finalization of the ROE with the property owners and utility companies.
- HDOT Betterments – KIWC has been issued RFCRs to incorporate HDOT's betterments into the design and construction. HART has received the cost proposal for RFCR 30 (Replace CMP with RCP), has finalized the ICE, received HDOT concurrence, and is waiting for NSM approval for negotiation. HART has received the cost proposal for RFCR 32 (Traffic Signals), and is finalizing the NSM. The remainder of the betterment RFCR is still pending receipt of cost proposals from KIWC.
- Balanced Cantilever System (BCS) – KIWC has completed placement of BCS shafts. Pier 306 Up Station is complete and KIWC has started working on Pier 306 Down Station. KIWC anticipates superstructure construction to begin in early 2016.

KEY ISSUES

- KIWC staffing levels on the KHG project – Column construction and C-pier construction was halted in August to support the WOFH project while continuing to implement structures access MOT along Kamehameha Highway. KIWC has continued to reallocate resources from the KHG project to the WOFH project and is creating a lack of production on the KHG contract. HART has put KIWC on notice and carries the lack of resources for the KHG contract within the project meeting minutes on a weekly basis.
- Drilled Shaft CSL Results – KHG continues to have CSL results that exceed the 10% velocity reduction, but to date most have been resolved without any repairs required.
- Environmental Complaints – HART continues to work with KIWC to respond to, and mitigate, noise complaints along the alignment. Noise monitoring stations have been installed to assist in the monitoring of the construction activities and work hours have been adjusted accordingly. KIWC/HART will continue to monitor the entire alignment to ensure compliance.

- The planned mobilization of a third drill spread to KHG has been postponed to ensure unrestricted traffic flow in the vicinity of Pearl Ridge and Pearl Kai and issues obtaining MOT during the holiday season. Drill will temporarily remain on WOFH, and KIWC currently intends to mobilize the 885 into this area in January.

Airport Section Utilities (ASU) (Section 4.4.B)

OVERVIEW

- The contractual Substantial Completion milestone for ASU is Feb. 6, 2016, and was intended to ensure completion of this work prior to the contractor for the Airport guideway beginning construction. Delays, in particular the Navy right of entry issue, have extended the ASU milestone date to August 2016. However, the Airport Segment Guideway and Stations contract has also been delayed and will not be in construction prior to the forecast completion of the ASU contract. Finalizing the descoped work at Valkenburgh could lessen the delay.

KEY ISSUES

- On Oct. 9, 2015, while uncovering and removing an existing duct bank, the contractor damaged live cables belonging to Oceanic Cable and Verizon. Cables were repaired and back in operation within 12 hours. The removal of the remaining duct bank will need to be discussed to avoid any further disruptions.

Contracts in Procurement

OVERVIEW

- Recent Award of Contract:
 - HART entered in a contract with CH2MHill, Inc. for the Fare Collection Technical Support Services on Oct. 22, 2015. The term of the contract is through Dec. 31, 2019, with up to 2 year's option to extend.
- Active Procurements:
 - An award of contract was made to Honua Consulting for the Kāko'o "II" Contract.
 - Airport Guideway and Stations Design-Build RFP: HART is on schedule with the Part 2 solicitation timeline for Alternative Technical Solutions discussions.
 - City Center Guideway and Stations (CCGS) Design-Build RFP: The Qualifications proposals are due Nov. 18, 2015.
 - Kamehameha Highway Stations Group (KHSG) Construction Contract (Design-Bid-Build) RFB: Bids are due Nov. 17, 2015.
 - The Fare Systems Contract RFP: The proposals due date has been extended to Nov. 13, 2015.
- Upcoming Procurements:
 - The Dillingham Utilities and Roadway Design-Bid-Build Contract is anticipated to be advertised early 2016.

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

Projected Substantial Completion: December 2019

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



Project Overview: The CSC contractor is continuing to progress through Final Design. Qualification and design verification tests are ongoing; completing passenger vehicle communications and UPS tests. Construction interface with the MSF contractor (KKJV) is ongoing, with AHJV on site finalizing the Yard Control Bungalow (YCB) walls and roof structures. MSF Switch machines arrived on site and preliminary installation started. Installation activities are underway for the first two carshells; the third and fourth carshells (to complete the first train) are in transit.

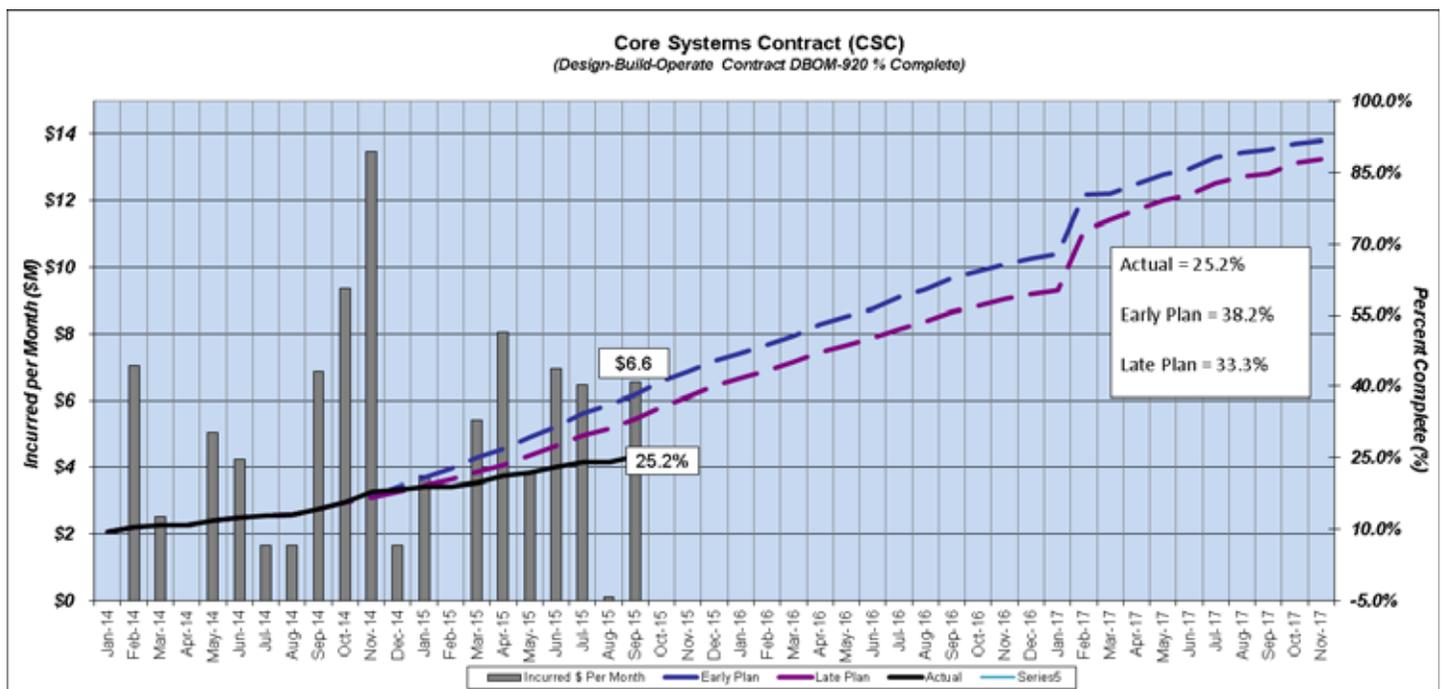
COST INFORMATION:

Original Contract:	\$573,782,793	Incurred-to-Date:	\$150,172,400
Current Contract Value ¹ :	\$595,063,687	Incurred in September:	\$6,552,220

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

Disadvantaged Business Enterprise (DBE) Participation	
Actual DBE Participation:	\$129,165
DBE % Attained:	0.029%

September Change Orders		
Change No.	Description	Amount (\$)
None	---	---
Cumulative to Date		\$21,280,894



The progress chart reflects early program expectations. When the overall schedule is rebaselined and Construction Access Milestone dates are revised, the cost curve will be revised.

SCHEDULE:



	Interim Design Submitted Documents	Final Design Submitted Documents	Target Completion Date
Passenger Vehicles	100%	56%	4 th Q 2015
Communications	100%	43%	4 th Q 2015
ATC/SCADA	88%	94%	4 th Q 2015
TES	100%	99%	4 th Q 2015
Fire Detection	100%	56%	4 th Q 2015
PSG, UPS, MOW, YCB	N/A	78%	4 th Q 2015

CRITICAL PATH SUMMARY:

- Continue to oversee construction activities with the MSF contractor, the CSC installation subcontractor and the On-Call Contractor.
- Passenger Vehicle crews finalized manufacturing of the third and fourth carshells in Reggio Calabria, Italy. Progress is ongoing with the other carshells. This work is being monitored closely.
- Due to the modified CAM dates, the equipment installation at Pearl Highlands and Pearlridge Stations are now driving the critical path.

WORK PROGRESS:

Activities this Month:

- Project-Wide Percent Complete: 27%
- Passenger Vehicle Percent Complete: 34%

Design:

- ATC/SCADA – Documents Received: 8, Documents Returned: 11.
- Communications – Documents Received: 15, Documents Returned: 20.
- Traction Power – Documents Received: 7, Documents Returned: 28.
- Fire Detection – Documents Received: 3, Documents Returned: 0.
- Platform Screen Gates – Documents Received: 10, Returned: 0.
- Passenger Vehicles – Documents Received: 0, Documents Returned: 40.

Manufacturing:

- Performed manufacturing oversight work at the AnsaldoBreda factories. Work completed this month: The third and fourth carshells are in transit to the final assembly facility. Work is well underway for the next eight carshells, and AHJV began fabrication of the 9th and 10th carshells. (For additional details, please see the Vehicle Carshell Progress Tracker in Appendix E.)

Look Ahead:

Design:

- Completion of ATC/SCADA Final Design for Segment 1.
- Completion of TES Final Design for Segment 1.

Manufacturing:

- Passenger Vehicle Manufacturing – Continue carshell assembly for the first ten carshells (first three trains).
- Arrival of the third and fourth carshell to the Final Assembly Plant in Pittsburg, CA.
- Begin installation of cabling, raceways, windows and vehicle equipment.

Testing:

- Traction Power – Design Verification of TPSS Temperature Rise – Fontana, CA (November 2015).
- Traction Power – Pre-shipping Inspection Test Leeward Gap Breaker Station (GBS) – Fontana, CA (November 2015).
- Traction Power – Pre-shipping Inspection Test East Kapolei TPSS – Fontana, CA (November 2015).
- Communication Systems – Pre-Shipping Inspection Test for Passenger Information System – Plano, TX (January 2016).

Activities this Month (continued):

- Perform final assembly oversight work at Pittsburg, CA. Work continues to ramp up on the assembly of the first train; cabling and raceway pre-assembly.

Testing:

- Addressed Hardware items and specific ATS/SCADA functions from the previous ATS/SCADA Software Test in Pittsburg, PA.
- Witnessed Passenger Vehicle Traction Motor Factory Acceptance in Plattsburgh, New York.
- Witnessed Passenger Vehicle Gangway Factory Acceptance in Mt. Pleasant, South Carolina.
- Traction Power – Pre-shipment Inspection Test Waipahu TPSS – Fontana, CA.
- Communication Systems – Design Verification OSB System – Italy.
- Uninterruptible Power Supply (UPS) Pre-shipment Inspection Test.
- Uninterruptible Power Supply (UPS) First Production Units Test – China.

MSF:

- Ongoing coordinating work with KKJV, and coordinating follow up work by AHJV and On-Call Contractor.
- Yard conduit installation: On-Call Contractor installation of yard conduit extensions is ongoing.
- OSB conduit installation: On-Call Contractor completed Public Announcement and Access Control System/Intrusion Detection System (ACS/IDS) conduits on the upper floor of the OSB and the MOW buildings.
- Yard Control Bungalow - completion of walls and roof slab.
- AHJV continues walk through activities with KKJV for Share access for the Wheel Truing Building (WTB), Operations and Servicing Building (OSB) and Maintenance of Way (MOW) building.
- TES Cable Installation is underway at the MSF Traction Power Sub-Station.
- TES feeder cable installation is underway in storage track area.
- Fire Detection wiring at the OSB second floor Mezzanine 1 is ongoing and expected to be complete by the end of November.
- Construction of foundations for the Closed Circuit Television Cameras poles at the MSF perimeter is ongoing.

Look Ahead (continued):

- Communications Pre Shipping Inspection of On-Board Systems – Plano, TX (November 2015).
- Train Control Systems – Pre-Shipping Inspection Test for LCC Station SCADA Hardware – Batesburg, SC (November 2015).
- Train Control Systems – Pre-Shipping Inspection Test for Waipahu Station SCADA Hardware – Batesburg, SC (December 2015).
- Train Control Systems – Pre-Shipping Inspection Test for West Loch Station SCADA Hardware – Batesburg, SC (December 2015).
- Train Control Systems – Pre-Shipping Inspection Test for LCC Station TCCR Equipment – Batesburg, SC (November 2015).
- Train Control Systems – Vehicle ATC Cabracks 3 & 4 – Batesburg, SC (December 2015).
- Train Control Systems – Pre-shipment Inspection test – Ho’opili TCCR – Batesburg, SC (December 2015).
- Platform Screen Gates Design Verifications – Farmington, CT (November 2015).
- Platform Screen Gates Dynamic Load Tests (November 2015).
- Platform Screen Gates Kinetic Energy Tests – Farmington, CT (November 2015).
- Platform Screen Gates Static Load Tests – Farmington, CT (November 2015).
- Platform Screen Gates Portable Test Unit Tests – Farmington, CT (November 2015).
- Platform Screen Gates Reliability Life Cycle Test – Farmington, CT (Q4 2015).
- Platform Screen Gates Electromagnetic Interference Tests - Farmington, CT (December 2015).

MSF:

- Installation of Fire Detection wiring at the OSB ground floor.
- Installation of Communication system cabling in the OSB upper floors.
- Installation of Communication cabling in Maintenance of Way second floor.
- Continued installation of Traction Power cabling in Storage Track and OSB feeder track areas.
- Construction of the foundations and conduits for Communication Interface Cabinets at the MSF Yard.

KEY ISSUES:

- Revisions to the station and guideway Construction Access Milestone (CAM) dates might affect substantial completion of the Core Systems Contractor’s work. HART and the CSC will evaluate the full extent of potential impact once we have clarity of the expected CAM dates. This issue is being addressed in RFCR # 18.
- Vehicle Production and Testing is an ongoing monitored risk. Carshell production experienced some challenges and delays in the initial assembly of key components that affected the completion and shipment of the first carshell. Final Assembly of the first vehicle may have similar challenges. HART and CSC will continue to work together to plan and respond to the issues as they arise.
- Nine (9) Month Delay Claim - Change Order Executed (Change Order # 18).
- Resolution of outstanding ICDs.

QUALITY MANAGEMENT:

- Overall quality of the contract is good.

Design Verifications & System Testing		
Subsystem	Test Completed	Date Completed
PASSENGER VEHICLES	Gangway Factory Acceptance Test in Mt. Pleasant, South Carolina	Sept. 21, 2015
PASSENGER VEHICLES	Traction Motor Factory Acceptance Test in Plattsburgh, New York	Sept. 10, 2015
COMMUNICATIONS	Design Verification – Operations and Servicing Building	Oct. 9, 2015
TRACTION POWER	Uninterruptible Power Supply (UPS) Pre-shipment Inspection Test	Oct. 17, 2015
TRACTION POWER	Traction Power – Pre-shipping Inspection Test Waipahu	Oct. 8, 2015

Passenger Vehicle - Oversight		
Facility	Activity	Date Completed
Pittsburg, CA	On-site inspector in place to oversee and report on AnsaldoBreda Final Assembly activities. First and second carshells arrived at the Final Assembly Facility. The third and fourth carshells are in transit.	Ongoing

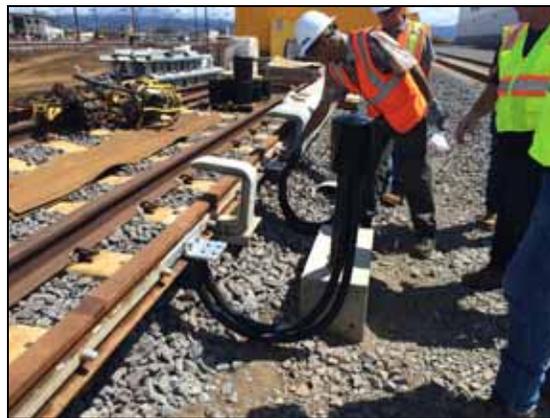
CSC NCR Log			
	TOTAL	CLOSED	OPEN
AHJV & Subs	23	22	1
AB	261	193	68
TOTAL	284	215	69

- AnsaldoBreda had previously generated NCRs for each aluminum carshell element with manufacturing issues found during carshell production; primarily at the subassembly supplier (CMC). Corrective actions have been taken for future production, and adjustments are being made to current assembled parts.

PROJECT PICTURES:



Yard Control Bungalow (YCB) with walls and the roof slab completed.



Mock-up of termination for Traction Power Cables to the third-rail and cover.



MSF Yard –Switch machine partially installed.

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

Projected Substantial Completion: The May 2018 completion date will change to a later date predicated on the award of the DB contracts for the east portion of the guideway. The Airport Guideway and Stations has been advertised. The City Center Guideway and Station DB contract part 1 was advertised in August, as planned.



Project Description: Furnish / install / test / maintain all elevator and escalator equipment located at the 21 stations.

Project Overview: The release to begin manufacturing of the FHSG and WOSG equipment will be scheduled once an approved construction schedule with the respective contractors has been completed. The Notice to Proceed for FHSG was issued in August. The WOSG NTP was issued in October.

COST INFORMATION:

Original Contract: \$50,982,714

Incurred-to-Date: \$4,643,982

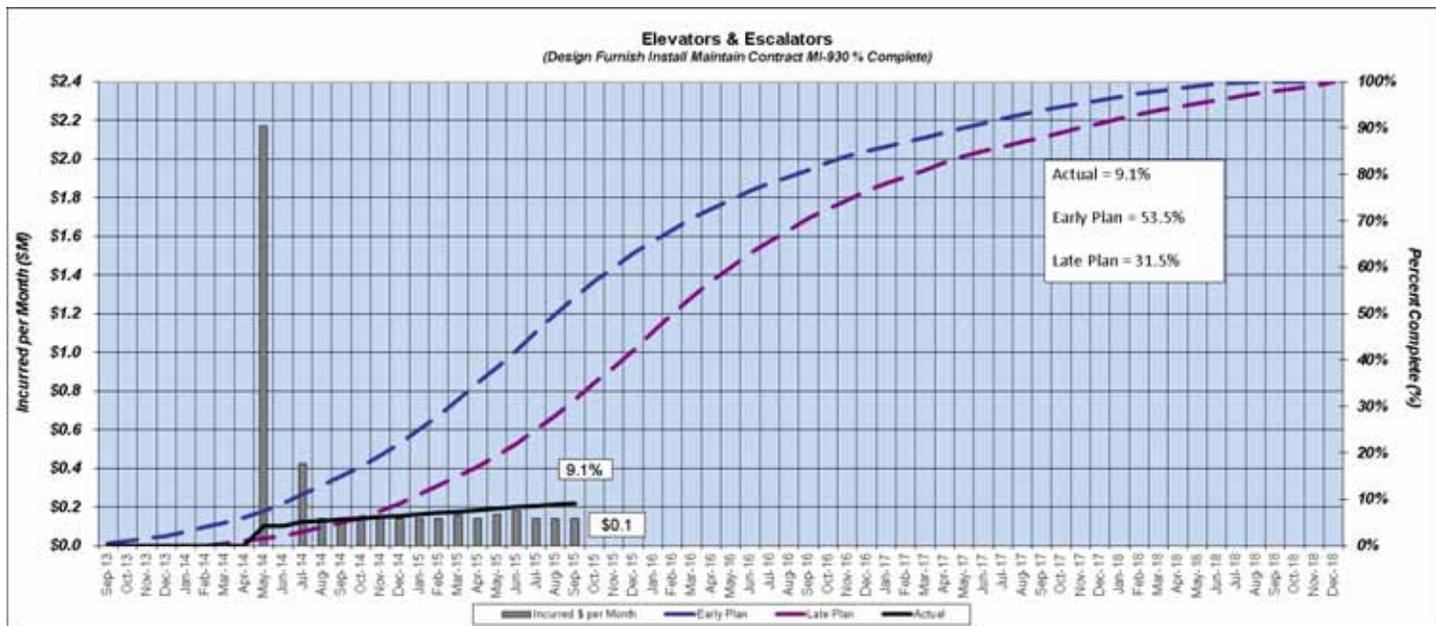
Current Contract Value¹: \$50,982,714

Incurred in September: \$140,824

¹Current Contract Value = Original contract value (not including contingency) with Design Allowance + executed Change Orders

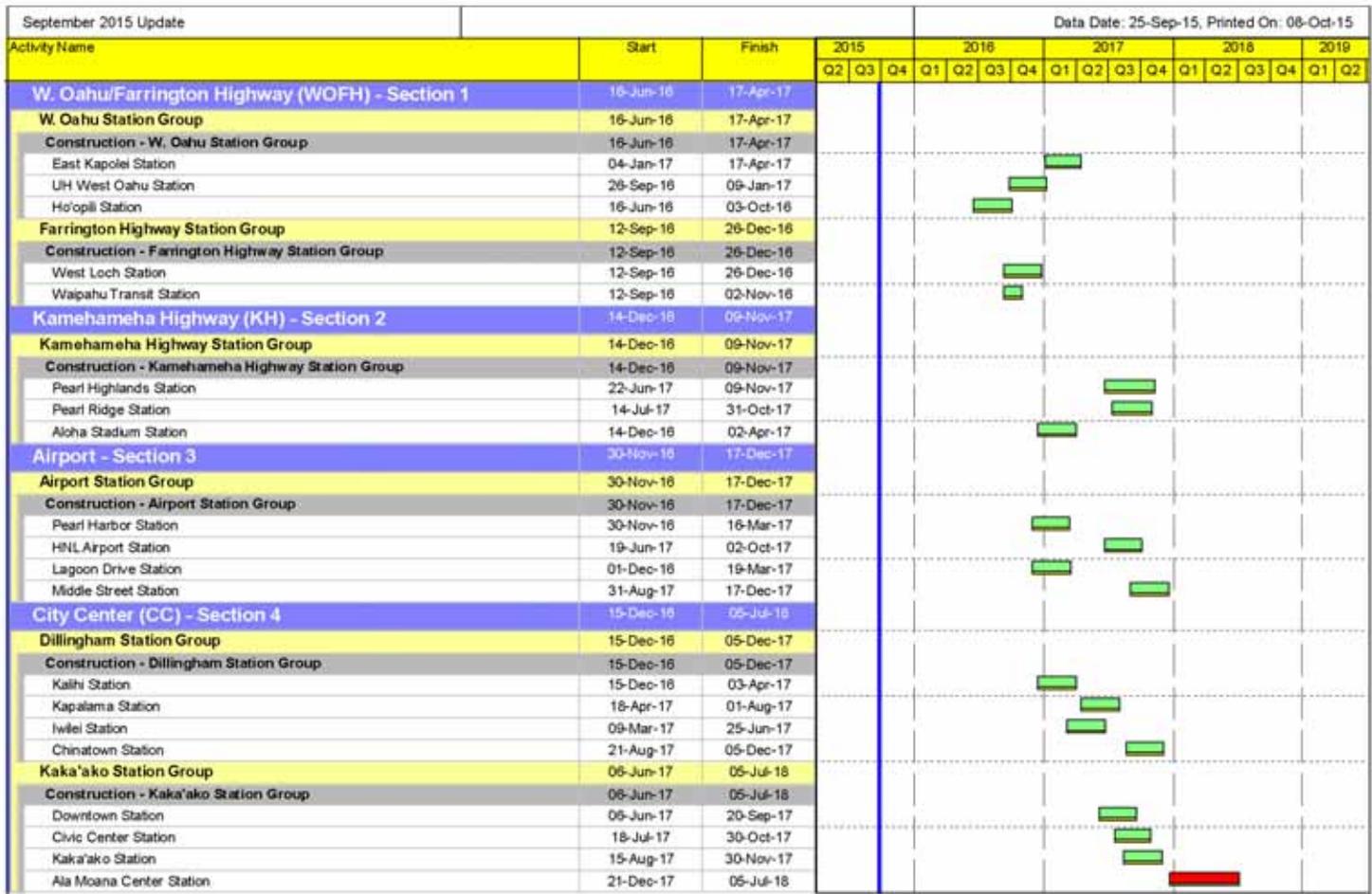
DBE Participation	
Actual DBE Participation:	\$0
DBE % Attained:	0%

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



The progress chart reflects early program expectations. When the overall schedule is rebaselined and Construction Access Milestone dates are revised, the cost curve will be revised.

SCHEDULE:



CRITICAL PATH ISSUES:

- Coordination with station contractors on construction interface milestones.
- Re-bidding of the Airport and City Center sections of guideway with stations as Design-Build contracts might impact the completion of the Elevator Escalator contract.

WORK PROGRESS:

Activities this Month:

Earned Value: 9.1%; Planned Value: 31.5%

- Final Design is approximately 40% complete, as 9 of the 21 stations are ready to be released for manufacturing once the contractor's schedules are approved.
- All draft equipment drawings for the 21 stations have been submitted for review and have been accepted.
- Design is complete on the three FHSG stations, three WOSG stations, and the three KHSG stations.

Look Ahead:

- Release for manufacturing for the Farrington Highway Station Group and the West O'ahu Station Group elevators and escalators will be scheduled once the respective contractor's schedule has been approved and issued.

KEY ISSUES:

- The release to allow manufacturing for FHSG, WOSG and KHSG will be dependent on the acceptance of an approved schedule for each of these contracts. The 4 stations included in the DB contract for Airport Guideway and Stations has not yet been awarded. Final completion of the equipment requirements for these stations is on hold pending contract award. The 8 stations included in the City Center Guideway and Stations contract is also on hold pending contract award of the DB contract for this work.

C. Fare Collection System

Contract No.: TBD

Contractor: TBD

Contract Start Date: TBD

Contract Substantial Completion: TBD

Projected Substantial Completion: TBD

Project Description: The fare system is a joint HART and City and County of Honolulu (DTS, DIT, BFS) project that will consist of a multi-model, closed loop, account based smart card system. The Fare System Vendor will be responsible for design, manufacture, testing and installation of the entire system inclusive of hardware and software.

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

Project Overview: The Fare Systems RFP was released on Aug. 11, 2015. As a result of potential Offeror requests, the deadline for proposals was again extended to Nov. 13, 2015. Best and Final Offer (BAFO) is now anticipated in early January 2016 with award at the end of January 2016. An MOU for capital cost sharing with the City has been executed and an MOU for Operations and Maintenance has been drafted and the technical review is complete. The document is currently with COR for legal review. A Fare Systems technical consultant contract was awarded on Sept. 24, 2015, to CH2M Hill to support design review, testing and installation. The selected DBOM contractor is anticipated to start design in April 2016.

COST INFORMATION: TBD

SCHEDULE:

- RFP released Aug. 11, 2015. Award anticipated in January 2016. System design anticipated to start in spring 2016.
- Manufacture in winter 2017.
- System testing for the back office functions and TheBus anticipated in summer 2017.
- Anticipated system pilot launch on TheBus in fall 2017, with full roll out on TheBus (including all central systems) in winter 2018.
- Interim roll out on rail is still scheduled fall 2018.
- Full roll out on rail in late 2019.

CRITICAL PATH ISSUES:

- MOU for O&M cost sharing between HART and the City.

WORK PROGRESS:

Activities this Month:

- Completed technical review of O&M MOU and forwarded to COR for legal review.
- Completing contract negotiations and issuing award for Technical Consultant.
- Responding to questions and ATCs from potential Offerors.
- Determine if MOU is required between HART and OahuMPO for fare modeling funding.

Look Ahead:

- Revise, as necessary, Board briefing with overview of Fare System and how it operates from an end user perspective.
- Begin review of Fare System Offeror bids.
- Begin fare modeling once 60 day review period is completed by OMPO.

KEY ISSUES:

- Completing legal review of MOU for O&M cost sharing between HART and the City.
- Begin review of Fare System Offeror bids.

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

Projected Substantial Completion: December 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.

Project Overview: For the October 2015 Report, progress for utilities, shaft, column, segment casting, and span stressing have been updated. Segment erection from West Loch Station through East Kapolei Station has been completed. Headings #1 and #2 are erecting segments from West Loch Station and Waipahu High School (WHS), respectively, to progress towards Waipahu Transit Center Station. Maintenance of Traffic action items are being addressed for intersection closures. The Project’s Key Quality Issues continue to focus on drilled shafts and segment repairs, in addition to the repairs of Span 17.

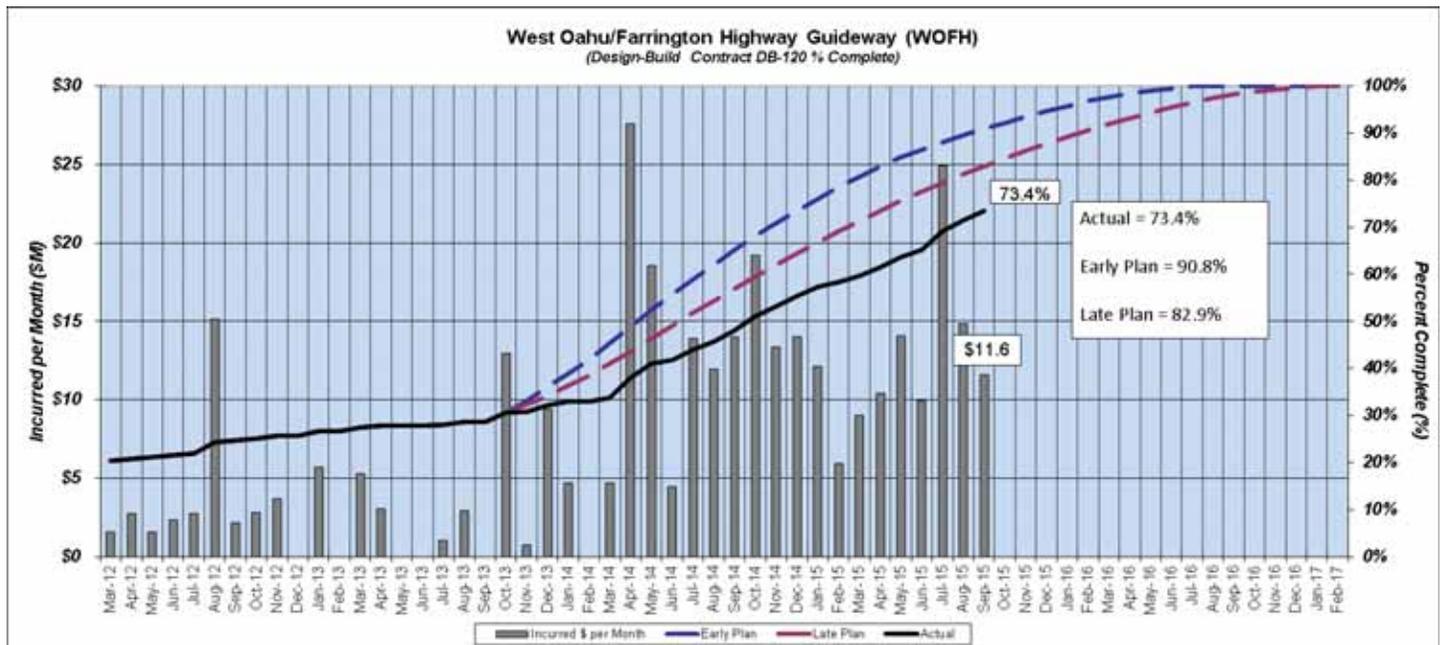
COST INFORMATION:

Original Contract:	\$482,924,000	Incurred-to-Date:	\$463,061,419
Current Contract Value ¹ :	\$631,206,384	Incurred in September:	\$11,621,908

¹Current Contract Value = Original contract value (not including contingency) + executed Change Orders

DBE Participation	
Actual DBE Participation:	\$6,339,887
DBE % Attained:	1.31%

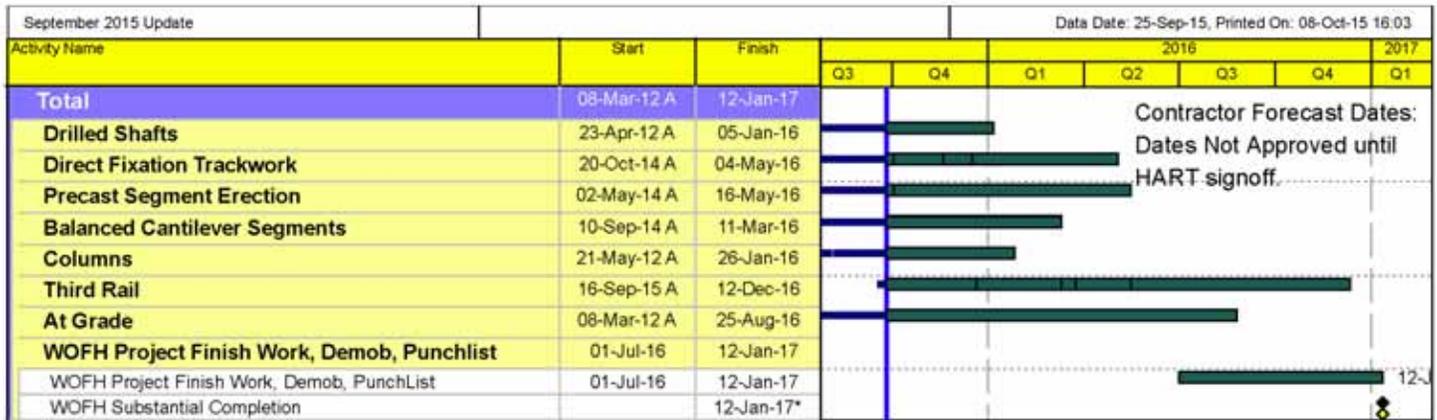
September Change Orders		
Change No.	Description	Amount (\$)
None	---	---
Cumulative to Date		\$148,282,384



In October, KIWC submitted Pay Application #71 for Escalation Due to Schedule Impacts – 1/1/15 to 3/31/15 and #72 for the September 2015 billing. Both payments are currently being reviewed by HART. Pay Application #70 for August 2015 has been approved and closed. HART maintains that retention will continue to be withheld until such time that progress is satisfactory.

SCHEDULE:

- Progress is lagging from the approved planned schedule. HART and KIWC have been working to mitigate impacts to critical path activities. HART reviewed a revised baseline schedule and requested a resubmittal via the Change Order process.



CRITICAL PATH ISSUES:

- The lead time for modular buildings at LCC and delays with procurement and LCC ROE Agreement will have an impact to the overall schedule. KIWC has notified HART that a 6 month time extension beyond substantial completion is needed to complete work at LCC due to these impacts. HART is currently working with the contractor to mitigate delays and evaluating KIWC’s request to see if it’s concurrent or compensable. The forecasted substantial completion went from Jan. 12, 2017 in KIWC’s August progress, to Dec. 21, 2016 in their September progress.
- Production rates for span erection continue to reside at or near critical path.
- Work in the Balanced Cantilever System area has slipped from the October 2014 schedule and is at or nearing critical path with minimal total float days available. Follow on track work has been re-sequenced and/or reduced to minimize the slippages in the Balanced Cantilever System area. Contractor’s performance regarding these mitigation steps will be tracked to validate their feasibility.

WORK PROGRESS:

WOFH Construction Status as of 10/16/15									
Utility Status	Qty to Date	Final Qty	% Complete	Structure Element	*** Total to Date	Planned to Date		Total Qty	% Complete
						Accepted Schedule *	Revised Schedule **		
Water Line	8,918	9,348	95%	Shafts	297	309	280	309	96%
Sewer Line	550	570	96%	Columns	230	242	216	283	81%
Fuel Line	340	340	100%	Segment Casting	3,141	3,209	3,209	3,209	98%
Gas line	1,498	1,591	94%	Spans Stressed	189	213	181	274	69%
Drainage Line	3,325	5,166	64%	* Accepted Schedule was submitted in 2013.					
Elec/Telecom	16,589	21,374	78%	** Revised Unaccepted Schedule was submitted in 2014. Revised schedule reflects a 6 month delay to completion.					
Street Lights	6,335	8,357	76%	*** Total quantity for the construction items has been revised to reflect the latest Issued for Construction number of shafts, columns, segments and spans.					
Traffic Sig/ITS Duct bank	8,152	10,802	75%						
System Sites	675	7,046	10%						
ITS Systems Devices	821	4,121	20%						

Activities this Month:

Earned Value: 75% [(Total Achieved to September 2015 (\$454.5 million) + Projected October 2015 Period (\$18.6 million))/Total Contract Including Executed Change Orders (\$631 million)]. Planned Value: 84.7%

Shaft/Column

- Performed drilled shaft construction, drilling, and placing of concrete for a total of 5 drill shafts. Set rebar and placed concrete for 17 columns.

Look Ahead:

Design Progress

- HART and KIWC are working together to complete final design. Additional submittals are expected to be issued for construction, pending coordination with other parties and contracts.

Shaft/Column

- Continue with drilled shaft and column production along Farrington between Work Area 3 Phase 6 and 7 (Mukuola St.) continuing towards Waipahu Transit Station. Column production will be completed at the Pearl Highlands Station area, and column production is proceeding from Work Area 3 Phase 9 (Kahuali’i St.) westward.

Activities this Month (continued):

Guideway Segment Erection

- Eastbound Heading #1 segments were erected from Span 165 through Span 174. Westbound Heading #2 was relocated to WHS and segments were erected for Span 250. Heading #3 is progressing from Span 258 to the eastern end of the alignment.

Utility Relocation

- KIWC continues to relocate third party utilities and is staying out in front of drilled shaft productions.

Balanced Cantilever Structure

- Cast 1 new segment downstream at Pier 253. Cast 2 segments, 1 upstream and downstream, at Pier 255. KIWC is fabricating the stem forms/bearings for temporary support to work at Pier 252 and preparing to launch upstream from Pier Table 256.

Track Construction

- KIWC continues with Thermite welding activities and replacing track inserts between UH West O’ahu and Ho’opili Station.

Precast Yard

- Precast Yard performed daily segment and sound wall casting at a reduced pace, averaging 3 segments per day or 14-17 segments per week. Segment casting is now at 98% completion.

KIWC/Third-Party Coordination

- HECO and KIWC continue to resolve conflicts with utility relocations.

Civil Structures

- Mechanically Stabilized Earth (MSE) Block Wall by Pier 251 continues to progress. Work continues on Walls B, C and D.

Look Ahead (continued):

Guideway Segment Erection

- Segment span erection will continue from Span 251 westbound towards Waipahu Transit Center, and from Span 174 eastbound along Farrington Highway to intersect Heading #2 at Waipahu Transit Center Station. Heading #3 will continue segment erection from Span 259 to Span 266.

Utility Relocation

- Work to relocate the remaining wet utilities (sewer/water) and dry utilities (traffic signal, street lighting and fiber optics) along Farrington Highway, in preparation for eastbound segment erection.

Balanced Cantilever Structure

- KIWC will continue to cast upstream segments for the balanced cantilever at Pier 253 and downstream segments for Pier 254. Segments will be cast upstream and downstream for Pier 255. Truss assembly will begin at Pier Table 256.

Track Construction

- Align and final set of the rail will be performed between UH West O’ahu Station and Ho’opili Station. Welding operations will return in December 2015, east of West Loch Station.

Precast Yard

- KIWC will continue to cast segment spans for the area between Work Area 2 Phase 6 and Phase 7. Production of segment casting and sound walls will continue for the WOFH segments and is on target for completion in November 2015.

KIWC/Third-Party Coordination

- Continue to resolve conflict construction and traffic issues with third-parties.

Civil Structures

- MSE Block Walls B, C and D will continue to progress by Pier 251.

KEY ISSUES:

- **Design Completion Schedule** – Design completion is not impacting construction and the Design-Builder is managing the completion of all design milestones. As of mid-October, 122 of 134 design submittals have been accepted. Department of Transportation Services (DTS) traffic signal design packages account for a majority of the remainder of the design.
- **Leeward Community College (LCC) Portables and Parking Lot Change Order** – KIWC has begun work at the LCC Station area. The delivery of the portable buildings began in October 2015 and is scheduled to be completed in November.
- **Construction Production/Baseline Schedule** – Meeting the project’s schedule will continue to be a challenge. A re-sequenced October 2014 baseline schedule was submitted to HART in December 2014, showing more realistic construction durations. The schedule is being used to track progress against schedule of milestones. Another baseline schedule, with a July 2015 data date, was submitted by KIWC in August 2015 for all future work. That schedule, like the one submitted in December 2014, contains significant unilateral changes in durations, logic, as well as activity modifications, and is currently being reviewed by HART.
- **Intersection Closure for Span by Span** – KIWC successfully completed the temporary intersection closure at Pupukahi Street for the span erection and post tensioning operations in October. The next intersection closure for span by span operations was by the Pupupuhi intersection and was completed this month. KIWC and HART will continue to evaluate opportunities for minimizing full closures at intersections during span by span operations over intersections along Farrington Highway.

QUALITY MANAGEMENT:

- KIWC continues to follow their established quality processes. There have not been any significant findings through quality monitoring and audits.

- **Span 17 Damage and Repair** – During the erection process of Span 17, segments 17-1, 17-2, 17-11 and 17-12 were damaged due to unbalanced support from the temporary bearings. NCR 00314 was opened to address this issue. This issue has been technically resolved and a recommendation to proceed with the repair has been issued. Ongoing repair at Span 17 is not on the critical path.
- **Drilled Shaft Quality** – As the drilled shaft activity nears completion, the quality of the shafts have improved substantially. Drilled Shaft Pier 235 repair was completed, and KIWC will proceed to Drilled Shaft 236 repair.
- **Pre-Cast Segment Progress/Quality** – The Casting Yard has scaled back in production to allow time for span erection efforts to catch up. Production is now averaging 14-17 segments per week and is currently about 98% complete with segment production for the overall project. Although 132 of the total 462 NCRs (28.6%) have been related to segmental issues like damaged shear keys, concrete voids and spalls, proper correction procedures have already been developed and are being implemented.
- **Closing Out NCRs** – NCRs are being promptly corrected, validated, and closed out during this period. Both KIWC and HART have been working together to complete all the needed processes for timely validation and closeout of NCRs. A total of 17 NCRs have been closed since last month. Of the 17, 13 were related to drilled shaft issues, two column finish issues, one precast segment spall issue, and one issue regarding temporary ITS system malfunction.
- **Maintenance of Traffic (MOT) Concerns** – HART and KIWC continue to work together to ensure that the MOT is in place per KIWC’s approved plans. Inspections and audits are being performed more frequently to ensure conformance to the plans.
- **Track Construction Operations** – HART and KIWC continue to have discussions on Direct Fixation Shim Tolerances, and KIWC is working on resolving some outstanding technical issues on the shim tolerances with HART. KIWC has decided to halt installation of direct fixation trackwork until these issues are resolved. Further information, such as surveys for all installed shims, need to be provided to determine the extent of nonconformance.

WOFH NCR Log		
Total NCRs Issued To Date	CLOSED	OPEN
462	401	61

PROJECT PICTURES:



Rough set Span 2L, East Kapolei Station Area, Work Area 1.



Epoxy segments at Span 168, Work Area 2.



Concrete Placement at Column 186, Work Area 3.



Paving at Leeward Community College (LCC), Work Area 5.

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: April 2015 (awarded July 2015)

Project Description: Architectural and engineering services for the design of three (3) transit stations serving 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.



Project Overview: The WOSG construction contractor was issued a full Notice to Proceed in October 2015. From the November 2015 Progress Report and on, a contract page for the construction contract will be included in the Progress Report. The role of the design consultant has transitioned to engineering support services during construction. As such, the WOSG FD contract page will be removed from the Progress Report, and any updates related to design will be covered in the WOSG construction contract page.

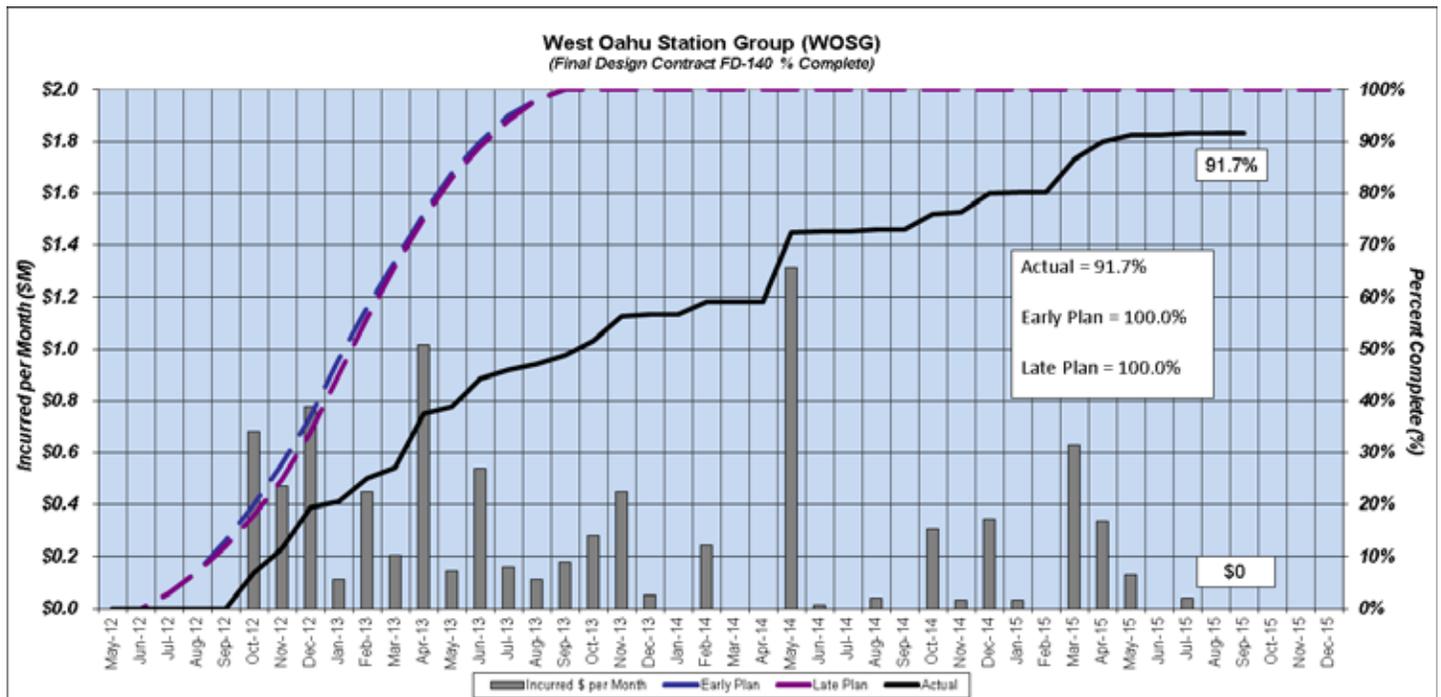
COST INFORMATION:

Original Contract:	\$7,789,000	Incurred-to-Date:	\$9,093,096
Current Contract Value ¹ :	\$10,014,305	Incurred in September ² :	-\$956

¹Current Contract Value = Original contract value (not including contingency) with Design Allowance + executed Change Orders
²Incurred amount modified due to payment request adjustment

DBE Participation	
Actual DBE Participation:	\$0
DBE % Attained:	0%

September Change Orders/Amendment		
Change No./Amend	Description	Amount (\$)
None	---	---
Cumulative to Date		\$2,825,305



The progress chart reflects early program expectations. When the overall schedule is rebaselined, the cost curve will be revised.

The design phase of the WOSG contract is complete. The role of the design consultant has transitioned to engineering support services during construction.

SCHEDULE:

September 2015 Update				Data Date: 25-Sep-15, Printed On: 06-Oct-15											
Activity ID	Activity Name	Start	Finish	2015			2016				2017				
				Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
W. Oahu/Farrington Highway (WOFH) - Section 1															
W. Oahu Station Group															
	Design - W. Oahu Station Group	28-May-13 A	29-Sep-17												
	Design - Bid Support	28-May-13 A	01-Nov-15												
	Design - Construction Support	02-Nov-15	29-Sep-17												
	Construction - W. Oahu Station Group	02-Nov-15	29-Sep-17												
	East Kapolei Station	15-Jan-16	29-Sep-17												
	UH West Oahu Station	02-Nov-15	31-Aug-17												
	He'opili Station	03-Dec-15	25-Jul-17												

CRITICAL PATH ISSUES:

- Completion of all HECO power service connections.

WORK PROGRESS:

Activities this Month:

- Current earned value is approximately 93%.

Look Ahead:

- Design support during construction.

KEY ISSUES:

- Providing quick resolution of issues as they arise during construction.

C. Farrington Highway Station Group (FHSG)

Contract No.: DBB-271

Contractor: Hawaiian Dredging Construction Company, Inc.

Contract Start Date: August 2015

Substantial Completion: September 2017

Projected Substantial Completion: TBD



Project Description: The Farrington Highway Station Group construction contract includes services to build three (3) transit stations along Farrington Highway. The stations are West Loch (WL), Waipahu Transit and Leeward Community College (LCC) Station. In addition to the transit stations, operational ancillary buildings, kiss and ride lots, and parking lots servicing the West Loch and LCC stations and adjacent areas are included in this project.

Project Overview: The contractor was issued Notice-to-Proceed (NTP) on Aug. 17, 2015. Preliminary discussions with the Hawaiian Dredging Construction Company (HDCC) introduced two (2) Value Engineering (VE) concepts – soil mixing for foundations and platform girder construction. HDCC has received HART’s feedback regarding the concepts and intends to submit an official VE proposal to HART. HDCC is currently working on the project plans, baseline schedule and contractual submittals.

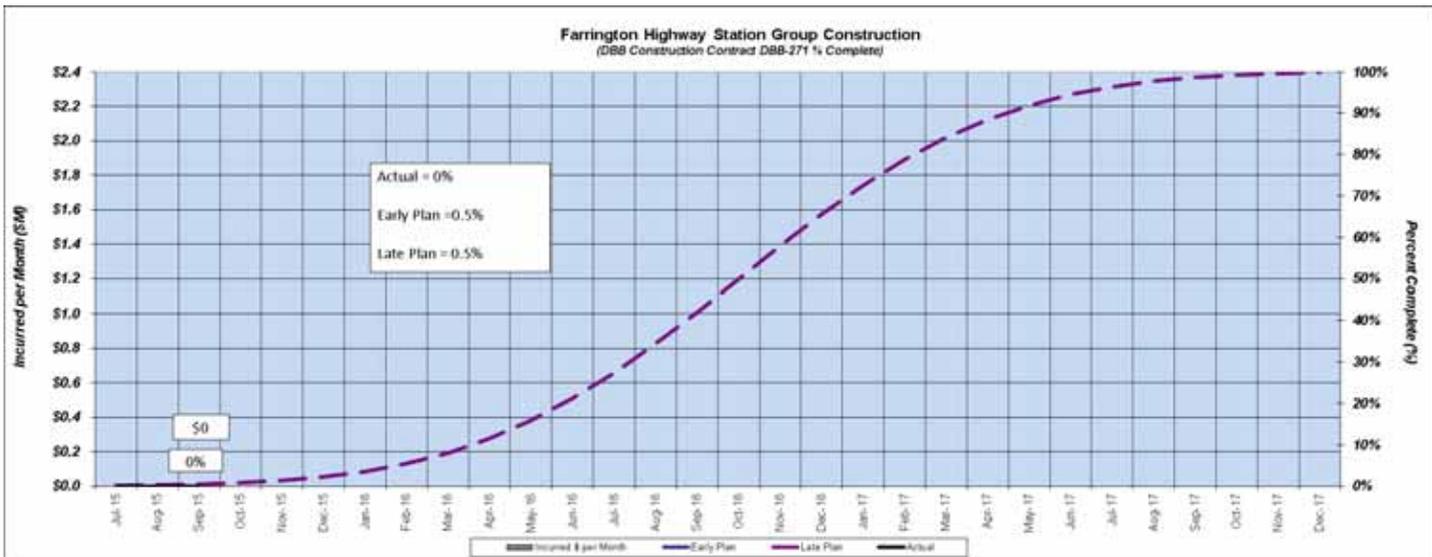
COST INFORMATION:

<u>Original Contract:</u>	<u>\$78,999,000</u>	<u>Incurred-to-Date:</u>	<u>\$0</u>
<u>Current Contract Value¹:</u>	<u>\$78,999,000</u>	<u>Incurred in September:</u>	<u>\$0</u>

¹Current Contract Value = Original contract value (not including contingency) + executed Change Orders

DBE Participation	
Actual DBE Participation:	\$0
DBE % Attained:	0%

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



SCHEDULE:

September 2015 Update			Data Date: 25-Sep-15, Printed On: 06-Oct-15													
Activity Name	Start	Finish	2015			2016				2017						
			Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
W. Oahu/Farrington Highway (WOFH) - Section 1	28-Jan-13 A	15-Aug-17														
Farrington Highway Station Group	28-Jan-13 A	15-Aug-17														
Design - Farrington Highway Station Group	28-Jan-13 A	15-Aug-17														
Design - Bid Support	28-Jan-13 A	14-Aug-15 A	█													
Design - Construction Support	14-Aug-15 A	15-Aug-17		█	█	█	█	█	█	█	█	█	█	█	█	█
Construction - Farrington Highway Station Group	17-Aug-15 A	15-Aug-17														
West Loch Station	17-Aug-15 A	12-May-17		█	█	█	█	█	█	█	█	█	█	█	█	█
Waipahu Transit Station	17-Aug-15 A	15-Aug-17		█	█	█	█	█	█	█	█	█	█	█	█	█
Leeward Community College Station	01-Dec-15	30-Jun-17				█	█	█	█	█	█	█	█	█	█	█

CRITICAL PATH ISSUES:

- Obtaining NPDES permit.
- Baseline Schedule approval.
- Review and approval of contractor’s administrative plans and procedures as required by the contract.

WORK PROGRESS:

Activities this Month:

Earned Value: 0%; Planned Value: 0%

- Draft Baseline Schedule submitted; HART review under way.
- Preliminary discussions for two (2) Value Engineering concepts proposed by HDCC.
- Draft HDCC’s Quality Assurance Plan has been submitted.
- Submission of required contractual documents such as resumes and personnel directory.

Look Ahead:

- Value Engineering proposals.
- Baseline Schedule approval.

KEY ISSUES:

- HDOT approval and DPP grading plan approval.
- Baseline Schedule.

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
Projected 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.

Project Overview: MSF substantial completion is April 21, 2016. The MSF-HART team is evaluating a two week time extension requested by KKJV due to weather events to date in 2015.

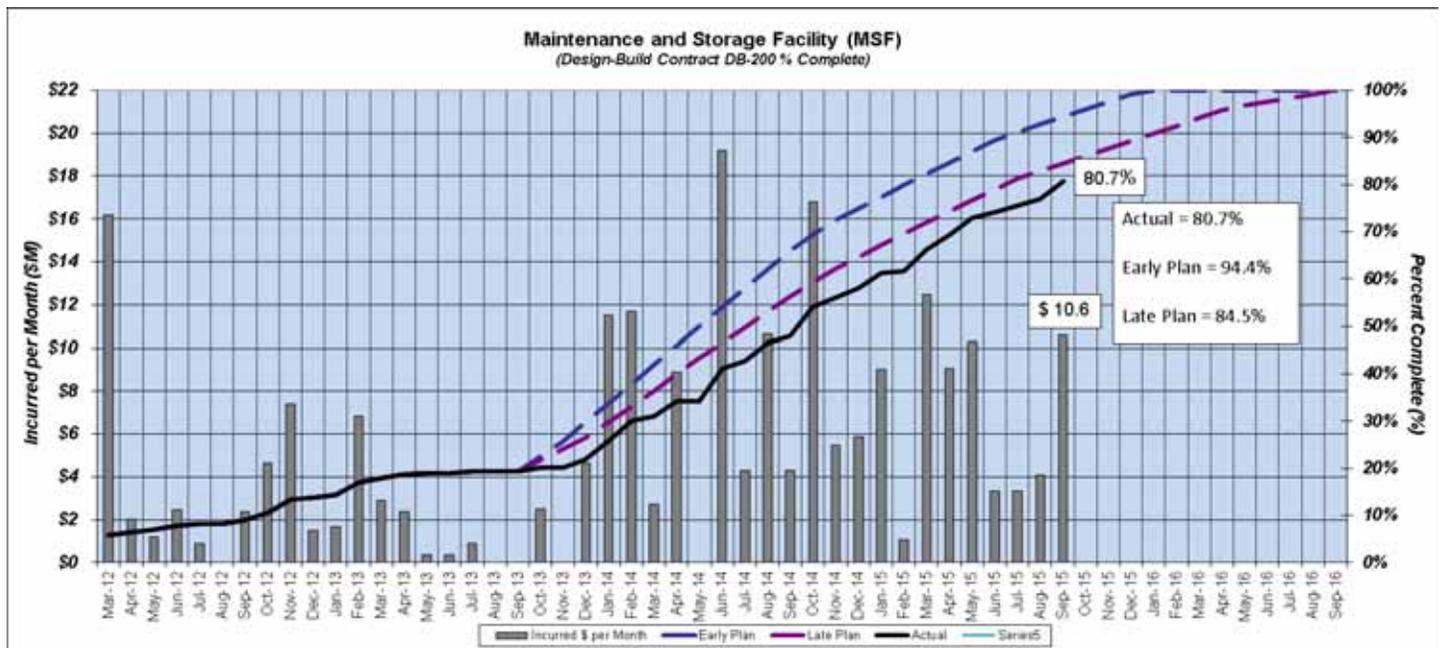
COST INFORMATION:

<u>Original Contract:</u>	<u>\$195,258,000</u>	<u>Incurred-to-Date:</u>	<u>\$225,845,597</u>
<u>Current Contract Value¹:</u>	<u>\$274,878,772</u>	<u>Incurred in September:</u>	<u>\$10,574,627</u>

¹Current Contract Value = Original contract value (not including contingency) + executed Change Orders

DBE Participation	
Actual DBE Participation:	\$337,114
DBE % Attained:	0.17%

September Change Orders		
Change No.	Description	Amount (\$)
None	---	---
Cumulative to Date		\$79,620,772



SCHEDULE:



CRITICAL PATH ISSUES:

- Scheduling work related to yard track and OSB to support program MSF completion date.
- Coordination with abutting WOFH main line contract for completion of track work in west yard, and utilities and site access in the east yard.

MSF Construction Status	
83% Complete Overall as of 10/31/15	
Element	% Complete*
OSB	93%
MOW Building	93%
WTB	97%
TWF	46%
Rail Procurement	98%

*Not including testing and commissioning.

WORK PROGRESS:

Activities this Month:

Earned Value: 79% [(Total Achieved to September (\$209 million) + Projected October 2015 Period (\$7.0 million))/Total Contract Including Executed Change Orders (\$275 million)]. Planned Value: 85%

Yard/Utilities

- Installing conduit for systems, communications, train control, traction power, site electrical and exterior lighting.
- Construction of storm water outfall is complete.
- Completed construction of trash enclosure structure.
- Track drain, subballast, and ballast installation East Yard Lead is ongoing.
- General Electric (GE) successfully tested transformers at MOW and OSB.
- Asphalt paving of walkways for the Storage Tracks commenced.
- Storm water outfall construction.

Operations and Servicing Building (OSB)

- Slab on grade (SOG) construction commenced in the shop area.
- Installation of mechanical/electrical/plumbing is ongoing.
- Installing service and emergency lighting is continuing.
- Installing drywall and interior and exterior building finishes.
- Installing framing for fixed ceilings.
- Installing exterior metal siding and ventilation louvers is completed.
- Installation of turntables and hydraulic lifts.
- Installing conduit inside OSB subgrade ahead of slab on grade is completed.
- Installing metal door frames and glazing is ongoing.

Look Ahead:

Yard/Utilities

- Continue train wash and ready track installation.
- Commence East Yard Lead track.
- Continue contact rail installation and testing.
- Continue testing of running rail.
- Continue installation of exterior yard and perimeter lighting.
- Complete Signal and Control Raceway.
- Complete storm water outfall.

OSB

- Installation of turntables and hydraulic lifts.
- Complete slab on grade in OSB 1st Floor.
- Interior finishes/HVAC.
- Install elevator.
- Install floor tile and bathroom accessories.
- Energize distribution power.

MOW

- Complete power distribution conductors.

Activities this Month (continued):

- Installing power distribution cabinets continues.
- Installation of air handlers and ventilation fans.
- AC units delivered for the OSB.
- Painting of interior metal surfaces is ongoing.

Maintenance of Way (MOW)

- Installed air handler units.
- Pulling power distribution conductors.
- Installing drywall and interior and exterior building finishes.
- Installing mechanical/electrical/plumbing systems.
- Completed power distribution cabinets.
- Installing doorframes for passage/personnel doors.
- Application of polished floor finish.
- Commenced installation of ceiling tiles.

Wheel Truing Building (WTB)

- Installing personnel doors, interior partitions and interior finishes.
- Installing wheel lathe assembly.
- Installing mechanical/electrical/plumbing.
- Installing power distribution.

Train Wash Facility (TWF)

- Installing CMU walls.

Rail Procurement and Installation

- Installation of contact rail is ongoing.
- Receiving materials and installing turnouts is ongoing.
- Distributing rail materials to WOFH is ongoing.
- Installation of pre-curved rail is ongoing.
- Preparing subgrade for ready tracks RL1 – 3 and W1.
- Completed poured hosteler pad for test track.
- Continuity testing of running rail and conductivity testing of contact rail.

Administration

- Continued working with the CSC to resolve design interface issues and turned over raceways for CSC cable pulling activities.

Look Ahead (continued):

- Interior and exterior finishes.
- Continue electrical, mechanical and plumbing.
- Complete installation of roll up and personnel doors and glazing.
- Elevator installation.
- Tile floor installation.

WTB

- Release Building Systems raceway to CSC.
- Install wheel truing lathe.
- Install parapet and cap flashing.
- Complete remaining HVAC and electrical.

Train Wash Facility

- Begin structural steel installation.

KEY ISSUES:

- **Joint Occupancy with Core Systems Contractor** – weekly meetings are held and details are being worked out for systematic release of areas and infrastructure whereby the Core Systems Contractor can commence work.
- **Coordination with the abutting main line contract** – for completion of site access in the east and west yards, including rail, vehicular access and utility interconnection.
- **Train Car Delivery and Assembly** – Rail, access and building completion in support of train car delivery and assembly, including site access and internal movement of assembled rail cars.
- Orderly completion of traction power, train control and building services conduits.
- Resolution of outstanding ICDs.

QUALITY MANAGEMENT:

- Overall quality of the contract is good.
- NCR 28 concerns application of fire stops and seals in rated walls.

MSF NCR Log		
Total NCRs Issued To Date	CLOSED	OPEN
28	27	1

PROJECT PICTURES:



Grading subballast material at RL 1 and S7 dual tracks at the NE side of the site.



OSB slab on grade construction.



MOW storefront window installation.



WTB wheel truing machine installation.



WTB wheel truing machine.



TWF CMU wall construction.

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

Projected Substantial Completion: September 2017



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, columns and aerial structure.

Project Overview: Construction of the drilled shafts has moved east of the H-1 overpass in order to maintain progress while HECO clearance issues are resolved. Discussions with HECO are being held at an elevated level to resolve concerns about horizontal/vertical clearances and schedule certainty. Construction of the Balanced Cantilever columns has begun west of the H-1 overpass. Permanent ITS work continues to be installed along with traffic signals. Temporary ITS work has been completed and is operational, as of Sept. 16, 2015. Utility relocations along the alignment continue to progress, but may be impacted by third-party schedules, primarily HECO.

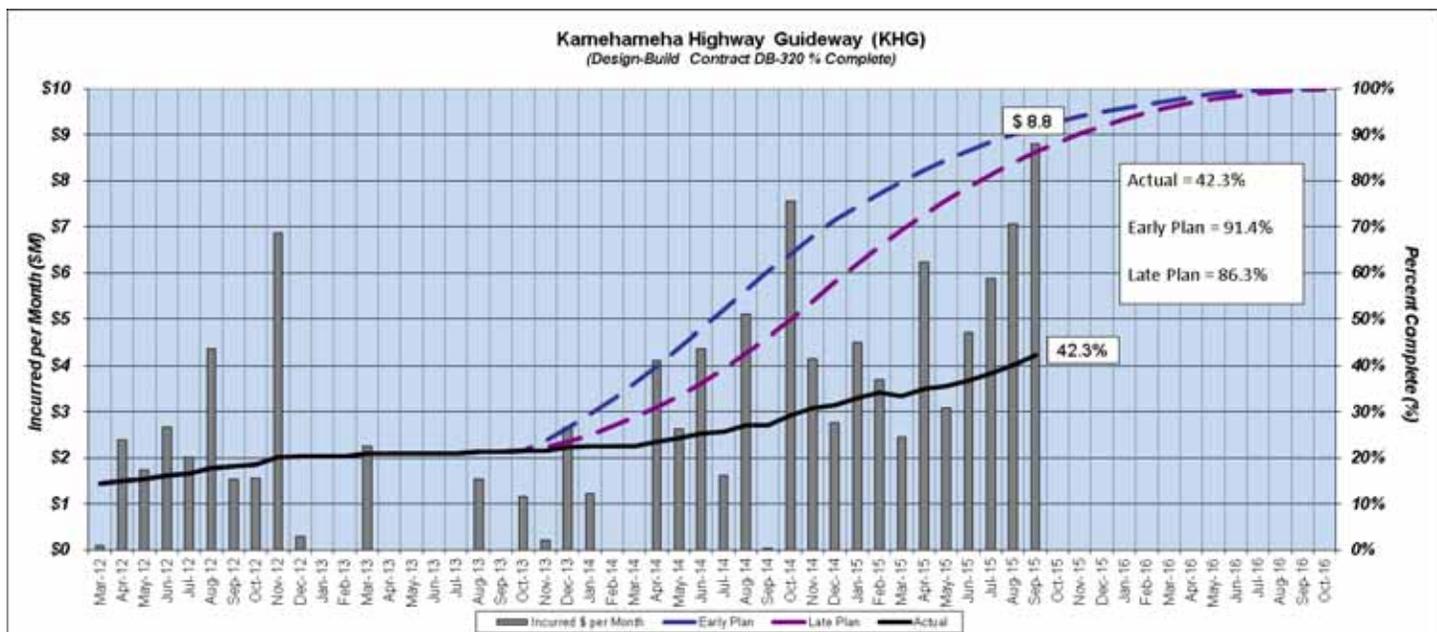
COST INFORMATION:

<u>Original Contract:</u>	<u>\$372,150,000</u>	<u>Incurred-to-Date:</u>	<u>\$168,647,073</u>
<u>Current Contract Value¹:</u>	<u>\$388,909,985</u>	<u>Incurred in September:</u>	<u>\$8,800,000</u>

¹Current Contract Value = Original contract value (not including contingency) + executed Change Orders

DBE Participation	
Actual DBE Participation:	\$297,631
DBE % Attained:	0.08%

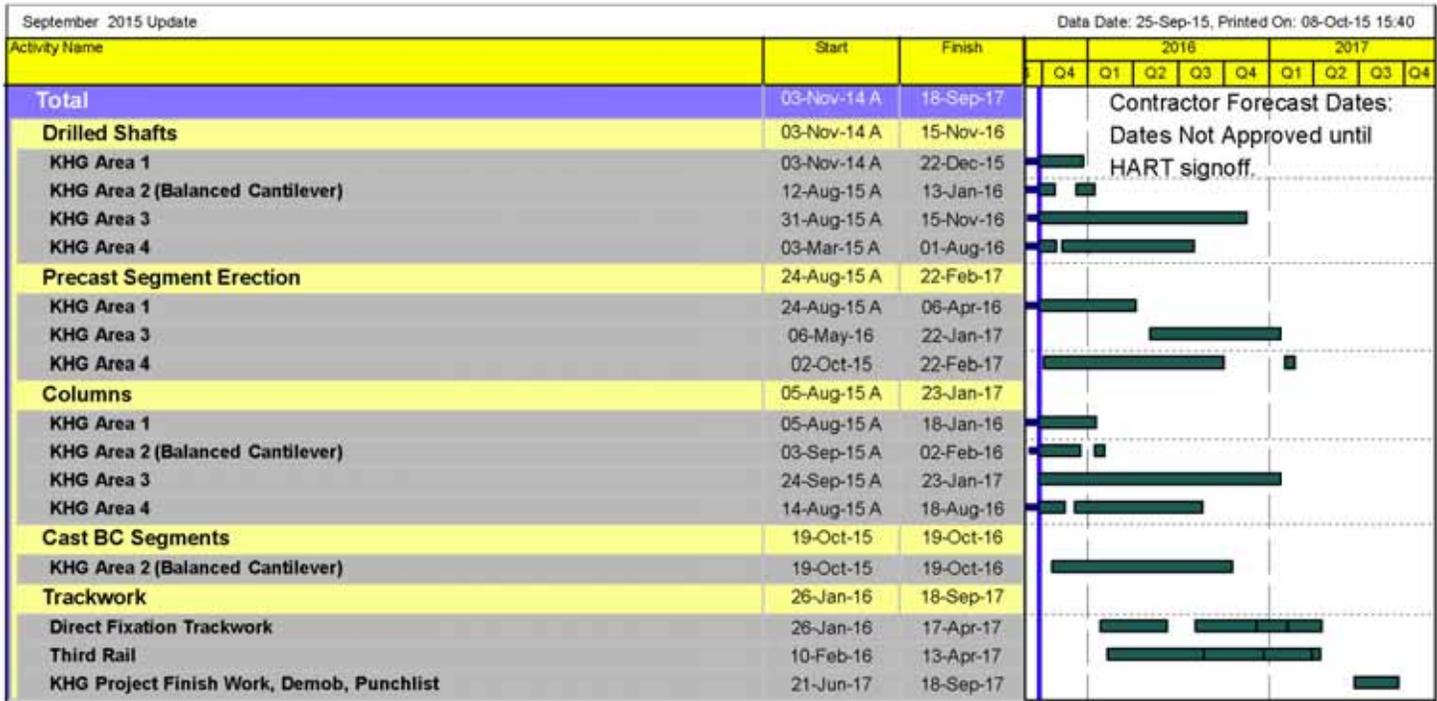
September Change Orders		
Change No.	Description	Amount (\$)
CO0018	Unknown Subsurface at Boring 422R; Utility varying from RFP	\$92,331
Cumulative to Date		\$16,759,985



Progress payment 49 (August 2015) has been submitted and is under review.

SCHEDULE:

- The approved re-baselined schedule was dated Oct. 28, 2013, and KIWC submitted a schedule revision on Dec. 5, 2014 with a data date of October 2014. This schedule showed a revised Substantial Completion date of April 4, 2017. HART has requested re-submittal via the change order process. KIWC is reflecting additional delay to complete the civil portion of the Work.
- A revised schedule was submitted in September 2015, re-sequencing the guideway and road work. That schedule, like the one submitted in 2014, contains significant unilateral changes in durations, logic, as well as activity modifications, and is currently being reviewed by HART. Guideway is currently forecasted to be complete in April 2017. However, the completion of the overall project has been pushed out to September 2017.
- Schedule has continued to slip due to various factors including, but not limited to, weather, lower productivity rates on structures, and third-party construction of utility relocation work. HART has noted that KIWC’s lack of coordination with third-parties contributed to the schedule slip.



CRITICAL PATH ISSUES:

- Start of span by span segment erection has been delayed until December 2015, due to the 3rd truss being utilized on the WOFH project.
- HECO forecasts at conflicts 11-920-M1 and 8-860-M1 has resulted in further delays to the project. The delays have been partially mitigated through resequencing of the road widening work.
- In the most recent schedule submitted, the longest path increased to -374 days of total float. The total float was at -277 days in the previous month and -200 days in the October 2014 update.

WORK PROGRESS:

KHG Construction Status as of 10/16/15										
Utility Status	Qty to Date	Final Qty	% Complete	Structure Element	Total to Date	Planned to Date		Total Qty	% Complete	
						Accepted Schedule*	Revised Schedule**			
Water Line	4,362	4,362	100%	Shafts	83	124	67	186	45%	
Gas Line	12,411	12,641	98%	Columns	11	85	43	169	7%	
Sewer Line	492	492	100%	Segment Casting	430	1020	573	2,075	21%	
Drainage	586	1,469	40%	Spans Stressed	0	71	13	166	0%	
Elec/Telecom	14,971	19,455	77%	* Accepted Schedule was submitted in 2013.						
Signals/ITS/Lights	13,297	18,486	72%	** Revised Unaccepted Schedule was submitted in 2014. Revised schedule shows a 7 month delay in completion.						

Activities this Month:

Earned Value: 43.6% [(Total achieved to September 2015 (\$160.4 million) + October projection (\$9.1 million))/Total contract including executed Change Orders (\$389 million)]. Planned Value: 88.3%

Shaft/Column/Segments

- 83 of 186 shafts have been installed.
- 11 of 168 columns have been constructed.
- 430 of 2,075 segments have been cast.
- Column construction has halted on KHG. Column crews have remobilized to WOFH.
- All shafts west of the H-1 overcrossing have been completed.
- Balanced Cantilever columns west of the H-1 overpass are being constructed.
- Continued construction of footings for “C” piers at shafts 277, 278 and 279.

Utility Relocation Progress

- Wall 8 fiber optic bypass and drainage completed.
- Fuel line tie-ins completed in Phases 6, 7 and 12.
- The relocation of HECO electrical lines and Hawaiian Telcom, Oceanic Time Warner and Intelligent Transportation Systems (ITS) duct banks is occurring in various phases along the alignment.
- Pile driving for streetlights continues at various intersections
- Installation of Waimalu drain line in Phase 5 continues.

Balanced Cantilever Structure

- KIWC completed Column 306 up station and began construction of Column 306 down station.
- All BCS shafts at the H-1 overcrossing have been completed.

Precast Yard

- KIWC has cast 430 of the 2,075 segments.

Traffic Signals

- Traffic signal installation is ongoing at various intersections throughout the alignment.

Roadway Widening

- Roadway widening is ongoing in Phase 9.

Look Ahead:

Design Progress

- HART and KIWC are working together to complete final design. To date, 39 of 49 drawing packages have been issued for construction.

Shaft/Column/Segments

- Construction of shafts will continue east of the H-1 overcrossing.
- Shaft construction in front of Pearl Kai Shopping Center will begin in January 2016, to minimize impacts to merchants along the corridor in this area.

Utility Relocation

- Acquisition of ROE for utility relocations is being pursued by HART and KIWC jointly, and meetings with property owners will continue.

Balanced Cantilever Structure

- KIWC will begin footing construction east of the H-1 overcrossing.

Precast Yard

- KIWC will continue casting segments. Based on the current rate, the forecasted completion is June 2016.

Roadway Widening

- Roadway widening will continue throughout the alignment.
- HART has issued RFCRs to the contractor for identified HDOT betterments. Work is anticipated to begin after issuance of a change order.

KEY ISSUES:

- **Community Noise Complaints** – Mitigation measures for noise, dust and traffic impacts continue to be explored. HART will continue to work with the community.
- **HDOT Betterments** – HART has issued eight RFCRs to date for HDOT betterments. Negotiations with KIWC, concurrence from HDOT, and source of funding all need to be finalized.
- **HECO Clearance and Schedule Issues** – HART is working together with HECO to resolve clearance issues. This issue, along with the lack of HECO schedule certainty, may impact the project schedule.

QUALITY MANAGEMENT:

- **Quality Process** – KIWC continues to follow an established quality process. There have not been any significant findings through quality audits.
- **Latest Construction Plans** – Current shaft, column, and footing construction is proceeding with only minor quality issues.
- **Drilled Shaft Quality** – KIWC currently has 18 open NCRs due to velocity reduction exceeding 10%. KIWC has been reviewing their means and methods for placing concrete to reduce the issue with velocity reduction.

KHG NCR Log		
Total NCRs Issued To Date	CLOSED	OPEN
85	61	24

PROJECT PICTURES:



Drilling shaft pier 301, Phase 3.



Setting balanced cantilever shoring, Phase 4.



Shaft dewatering, Phase 5.



Noise mitigation in work zone, Phase 7.



Pile driving at Pearl Kai, Phase 10.



System site 24 installation, Phase 13.

B. Ramp H2R2

Contract No.: DBB-385
Contractor: Royal Contracting Co. Ltd.
Contract Start Date: May 2015
Contract Substantial Completion: May 2016
Projected Substantial Completion: June 2016



Project Description: Ramp H2R2 is a loop ramp which connects in-bound Farrington Highway to in-bound Kamehameha Highway. The loop terminates just west of the intersection of Kamehameha Highway and Waihona Street.

Project Overview: Royal Contracting was awarded this project on May 4, 2015, and issued NTP on May 18, 2015. Construction duration is anticipated to be 13 months.

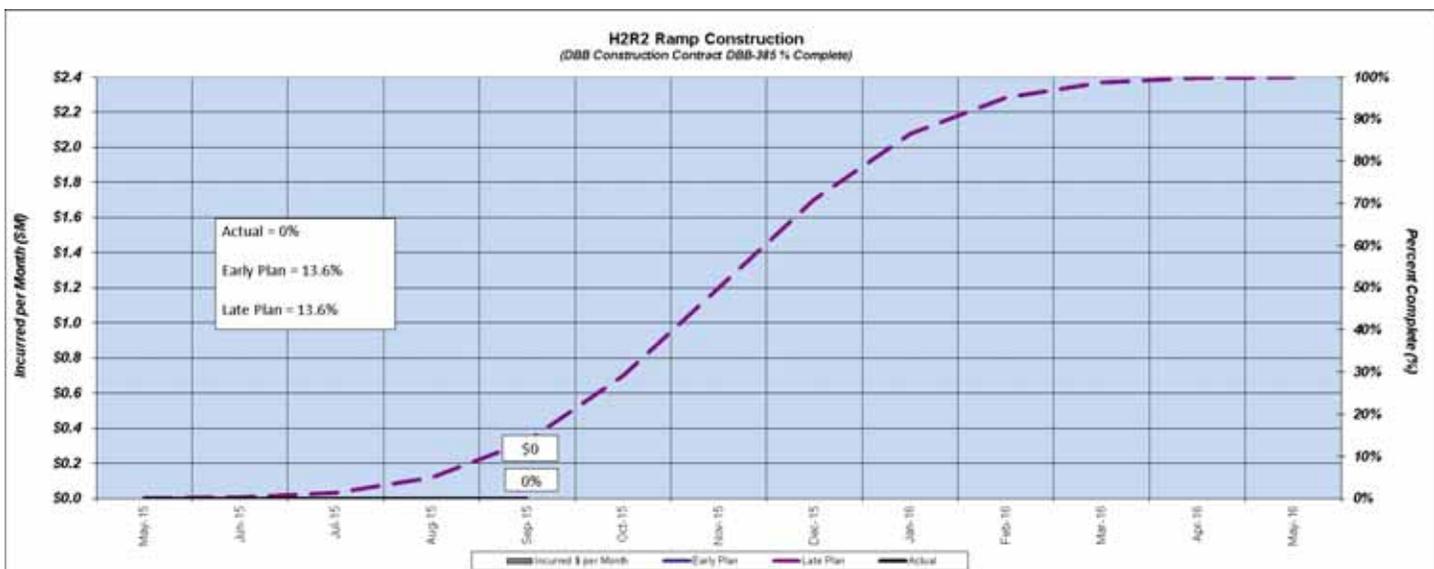
COST INFORMATION:

<u>Original Contract:</u>	<u>\$5,203,646</u>	<u>Incurred-to-Date:</u>	<u>\$0</u>
<u>Current Contract Value¹:</u>	<u>\$5,203,646</u>	<u>Incurred in September:</u>	<u>\$0</u>

¹Current Contract Value = Original contract value (not including contingency) + executed Change Orders

DBE Participation	
Actual DBE Participation:	\$0
DBE % Attained:	0%

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



The progress chart reflects early program expectations. When the overall schedule is rebaselined, the cost curve will be revised.

SCHEDULE:

September 2015 Update			Data Date: 25-Sep-15, Printed On: 08-Oct-15																
Activity Name	Start	Finish	2015			2016				2017				2018				2019	
			Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
H2R2 Ramp Summary for Monthly Report																			
Kamehameha Highway (KH) - Section 2	18-May-15 A	17-Jun-16																	
H2R2 Ramp Construction	18-May-15 A	17-Jun-16																	
H2R2 Ramp Construction	18-May-15 A	17-Jun-16																	
H2R2 Ramp Construction	18-May-15 A	17-Jun-16																	
Substantial Completion	17-Jun-16																		

CRITICAL PATH ISSUES:

- Contractor has received an NPDES permit, and has submitted for HDOT work permits.
- TMK 9-6-004:006 is awaiting HDOH approval to start soils remediation process.

WORK PROGRESS:

Activities this Month:

Earned Value: 0%; Planned Value: 0%

- Required Forms, Reports and Certifications continue to be submitted.
- Schedule of Values, Environmental Compliance Plan (ECP) and Key Personnel submittals under review.

Look Ahead:

- Complete all required submittals.
- Site mobilization planned for November 2015.

KEY ISSUES:

- Contractor to submit revised work schedule.

C. 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:

H2R2 Highway Ramp: January 2015 (in construction)

Kamehameha Highway Stations: August 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 serving the Kamehameha Highway Guideway. The three (3) stations comprising the KHSG contract are the Pearl Highlands Station, the Pearlridge Station, and the Aloha Stadium Station. The Pearl Highlands Station also includes two highway ramps.

Project Overview: The KHSG design has incorporated value engineering changes and was advertised in a construction solicitation on Aug. 18, 2015. In addition, the H2R2 Ramp was broken out and expedited under a separate Design-Bid-Build contract that was awarded in May 2015.

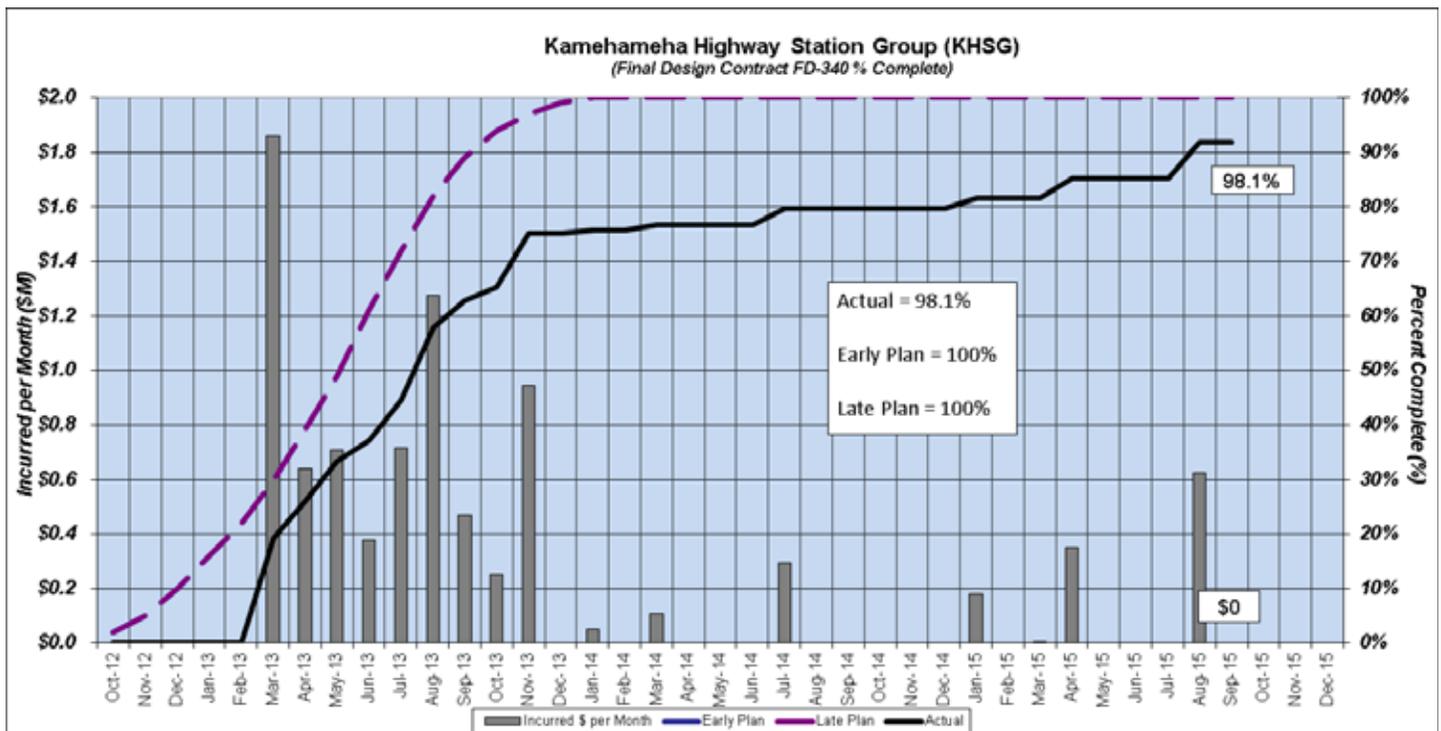
COST INFORMATION:

Original Contract: \$8,702,592	Incurred-to-Date: \$8,843,841
Current Contract Value ¹ : \$9,636,290	Incurred in September: \$0

¹Current Contract Value = Original contract value (not including contingency) with Design Allowance + executed Change Orders

DBE Participation	
Actual DBE Participation:	\$3,820,005
DBE % Attained:	43.9%

September Change Orders/Amendments		
Change No./Amend	Description	Amount (\$)
None	---	---
Cumulative to Date		\$976,698



The progress chart reflects early program expectations. When the overall schedule is rebaselined, the cost curve will be revised.

The design phase of this contract is substantially complete.

SCHEDULE:

September 2015 Update			Data Date: 25-Sep-15, Printed On: 07-Oct-15															
Activity Name	Start	Finish	2015			2016				2017				2018				
			Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
Kamehameha Highway (KH) - Section 2	16-May-14 A	29-Jun-18																
Kamehameha Highway Station Group	16-May-14 A	29-Jun-18																
Design - Kamehameha Highway Station Group	16-May-14 A	29-Jun-18																
Design - Bid Support	16-May-14 A	14-Dec-15																
Design - Construction Support	15-Dec-15	29-Jun-18																
Construction - Kamehameha Highway Station Group	15-Dec-15	29-Jun-18																
Pearl Highlands - Station	04-Apr-16	29-Jun-18																
Pearl Ridge Station	30-Jun-16	29-Jun-18																
Aloha Stadium Station	15-Dec-15	11-Oct-17																

CRITICAL PATH ISSUES:

- HART is overseeing the finalization of design interface agreements between the final design consultant and the WOFH, CSC and EE contracts.

WORK PROGRESS:

Activities this Month:

- Current earned value is approximately 99%.
- Issued final addendum to bid documents.

Look Ahead:

- Obtain third-party final approvals on final construction documents.

KEY ISSUES:

- Supporting ongoing active procurement.

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:

- Guideway, Stations and Utilities (DB)
 - In active DB procurement

Currently in Construction:

- Airport Section Utilities (DBB-505 - Nan Inc.):
 - Construction NTP issued July 2014

Construction Completed:

- Airport 7-Piers (DBB-525 – Hawaiian Dredging):
 - Project acceptance on May 2, 2015; currently in project closeout



Project Description: The Airport Segment Guideway and Utilities contract consists of 5.2 miles of elevated transit guideway serving four (4) passenger stations, in addition to roadway widening, utility relocation, and other improvements to create space for these transit facilities. Two construction contracts have been split out and expedited from the larger Airport Section package. These two contracts are the expedited Airport Section Utilities (ASU) and expedited Airport 7-Piers (A7). For both of these expedited contracts, the design has been completed and construction is in progress (ASU) or completed (A7). Therefore, the remainder of this section focuses solely on the remaining portions, which have been combined with the Airport Stations in an active design-build procurement.

Project Overview: This section of the guideway has been combined into a single Airport Guideway and Stations (AGS) design-build package. The AGS package is currently in active procurement.

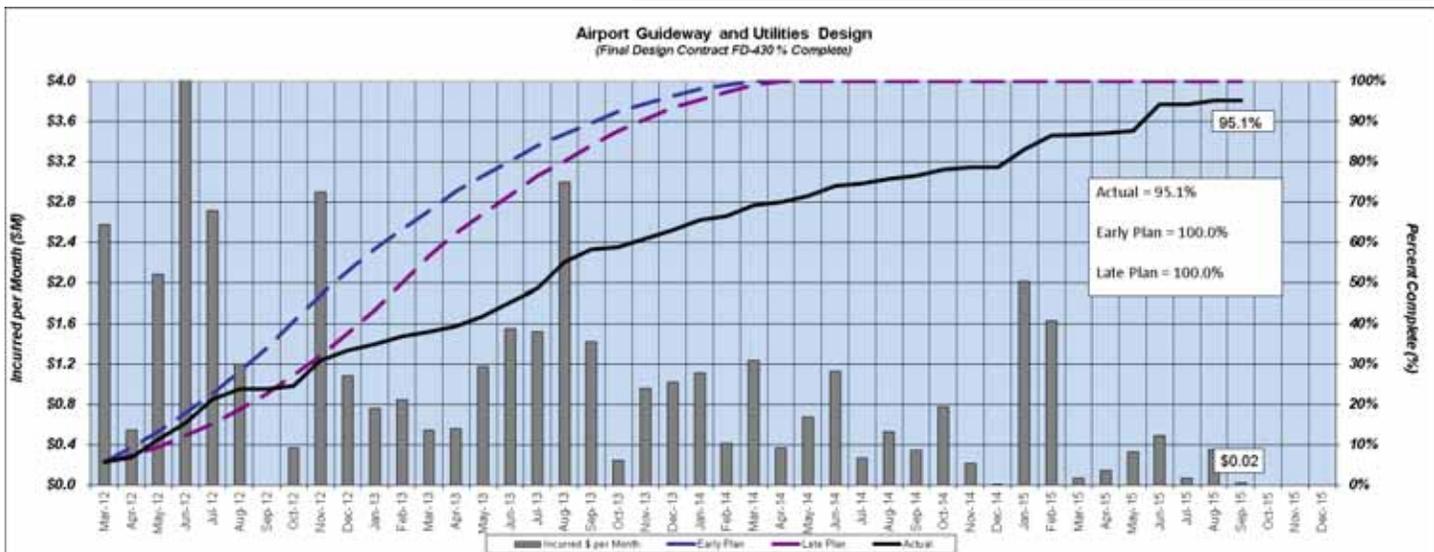
COST INFORMATION:

<u>Original Contract:</u> \$38,840,960	<u>Incurred-to-Date:</u> \$41,028,823
<u>Current Contract Value¹:</u> \$43,134,472	<u>Incurred in September:</u> \$20,065

¹Current Contract Value = Original contract value (not including contingency) with Design Allowance + executed Change Orders

DBE Participation	
Actual DBE Participation:	\$162,813
DBE % Attained:	0.42%

September Change Orders/Amendments		
Change No./Amend	Description	Amount (\$)
None	---	---
Cumulative to Date		\$4,293,512



The progress chart reflects early program expectations. When the overall schedule is rebaselined, the cost curve will be revised.

Due to the change in delivery method from DBB to DB, the final design will not be completed under this contract.

SCHEDULE:

September 2015 Update			Data Date: 25-Sep-15, Printed On: 08-Oct-15																			
Activity Name	Start	Finish	2015			2016				2017				2018				2019				
			Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
Airport Section Guideway	09-Nov-11 A	19-Jul-10																				
Airport Programmatic	01-May-12A	14-Feb-14 A																				
Airport Permits	09-Nov-11 A	09-May-16																				
Design - Airport Guideway & Utilities	05-Jan-12 A	25-Sep-15																				
Construction - Airport Guideway	04-Apr-16	19-Jul-19																				

CRITICAL PATH ISSUES:

- The schedule of this procurement was extended to allow additional time for DB qualifications proposals.

WORK PROGRESS:

Activities this Month:

- Current earned value is approximately 96.6%.
- Released DB RFP Part 2.

Look Ahead:

- Award of DB contract.

KEY ISSUES:

- Finalizing all right-of-way acquisitions.

B. Airport Section Utilities Construction

Contract No.: DBB-505

Contractor: Nan, Inc.

Contract Start Date: July 2014

Contract Substantial Completion: February 2016

Projected Substantial Completion: August 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 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.



Project Overview: Nan, Inc. continues with utility relocation work along Kamehameha Highway. ITS installation work along Kamehameha and Nimitz Highways is completed at 3 of the 4 sites. The 4th site needs power which is outside of this contract. Three of the 4 sites are operational and undergoing commissioning. Utility work was impacted due to lack of Navy ROE, however ongoing coordination with the Navy has allowed them to grant access. Details are still being finalized at this time. Meanwhile, Nan, Inc. continues to develop and submit outstanding submittals.

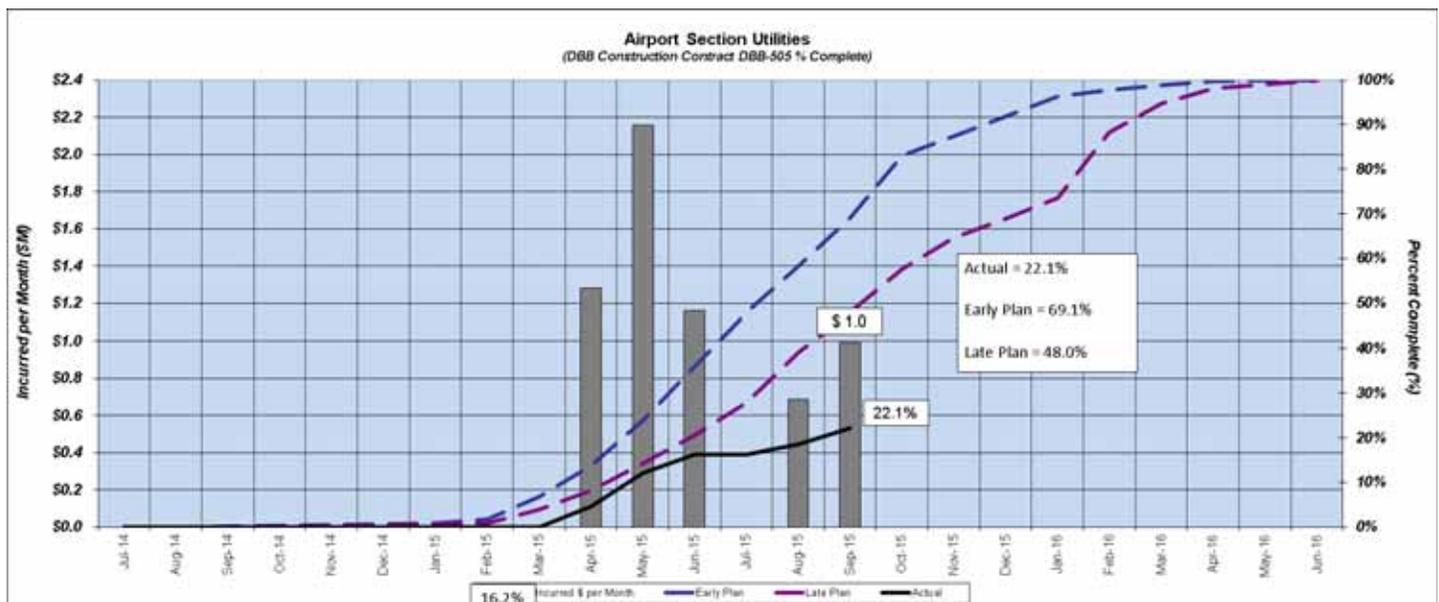
COST INFORMATION:

Original Contract:	\$28,413,974	Incurred-to-Date:	\$6,272,609
Current Contract Value ¹ :	\$28,413,974	Incurred in September:	\$992,688

¹Current Contract Value = Original contract value (not including contingency) + executed Change Orders

DBE Participation	
Actual DBE Participation:	\$0
DBE % Attained:	0%

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



The progress chart reflects early program expectations. When the overall schedule is rebaselined, the cost curve will be revised.

SCHEDULE:

September 2015 Update			Data Date: 25-Sep-15, Printed On: 08-Oct-15							
Activity Name	Start	Finish	2015			2016				
			Q2	Q3	Q4	Q1	Q2	Q3	Q4	
Airport Section Utilities	30-Jun-14 A	17-Feb-16								
Airport - Section 3	30-Jun-14 A	17-Feb-16								
Airport Utility Relocation	30-Jun-14 A	17-Feb-16								
Construction - Airport Utilities Relocation	30-Jun-14 A	17-Feb-16								
Construction - Airport Utilities Relocation	30-Jun-14 A	12-Feb-16								
Airport Utilities Relocation - Execute Contract	30-Jun-14 A	30-Jun-14 A								
Permits for Airport Utilities Construction	22-Jan-15 A	16-Mar-15 A								
Airport Utilities Construction	16-Mar-15 A	05-Feb-16								
Airport Utility Relocation - Substantially Complete		12-Feb-16								
Utility Relocation Inspection	29-Jan-16	17-Feb-16								
Inspect and Accept Airport Section Utilities Relocations	29-Jan-16	17-Feb-16								

CRITICAL PATH ISSUES:

- No critical path issues at this time.

WORK PROGRESS:

Activities this Month:

Earned Value: 22%; Planned Value: 24%

- Nan, Inc. has received approved permits to work in DOT-Airport property. (Revocable staging permit still pending.)
- Nan, Inc. is finalizing coordinating to bring LPR's online; currently pending ICX/HART submittal review.
- Nan, Inc. has submitted a baseline construction schedule, which has been approved. They are working on a revised baseline schedule based on deductive RFCRs that have been issued.
- Inspection and Testing Plan (ITP) has been submitted by Nan and returned by HART with comments.
- Tree relocation by On-call (Royal Contracting) began.

Look Ahead:

- Awaiting test results of contaminated soils, prior to transferring to PVT.
- Ongoing utility work on Kamehameha Highway (24-inch waterline and connection, telecom duct line and gas line).
- Summarizing descope items to be added to the guideway contract.
- Installation of new sewer line.
- Coordinate with Navy and third party communications utilities to resolve duct/lines that were damaged.

KEY ISSUES:

- Nan has submitted a construction delay claim due to the delay in access to Navy right of entry to perform work. HART is currently reviewing the claim.
- Nan, Inc. is presently 7 months behind schedule; due to the delay in access to construction sites as well as other factors, such as differing site conditions.
- Determine status of telcom duct bank work and how to proceed with removal.

QUALITY MANAGEMENT:

- HART performed a Combined QA and Buy America Compliance Audit of Nan, Inc. on Aug. 13, 2015.

Airport Utilities NCR Log		
Total NCRs Issued To Date	CLOSED	OPEN
15	13	2

C. Airport Section Guideway Seven Pier Construction

Contract No.: DBB-525

Contractor: HDCC/CJA JV

Contract Start Date: September 2014

Contract Substantial Completion: April 24, 2015

Declared Substantial Completion: April 22, 2015

Project Description: The Airport 7-piers contract consists of seven drilled shaft foundations installed within the Honolulu International Airport Parking lot "J", where the new Interim Car Rental Facility (CONRAC) is also being constructed. The contractor has installed seven foundations for piers 546, 547, 548, 549, 550, 551R and 552R. This work involved close coordination with the HDOT Airport and Kiewit, who is the contractor for CONRAC. In addition to the pier work, existing utility relocations have been included at Piers 546, 548, 549 and 550, under Change Amendment 1.



Project Overview: HDCC/CJA JV substantially completed the project on April 22, 2015. The site, along with maintenance of existing BMPs and traffic control measures were turned over to the HDOT-A. Generated punch list items were completed and accepted as of May 2, 2015, by HDOT-A.

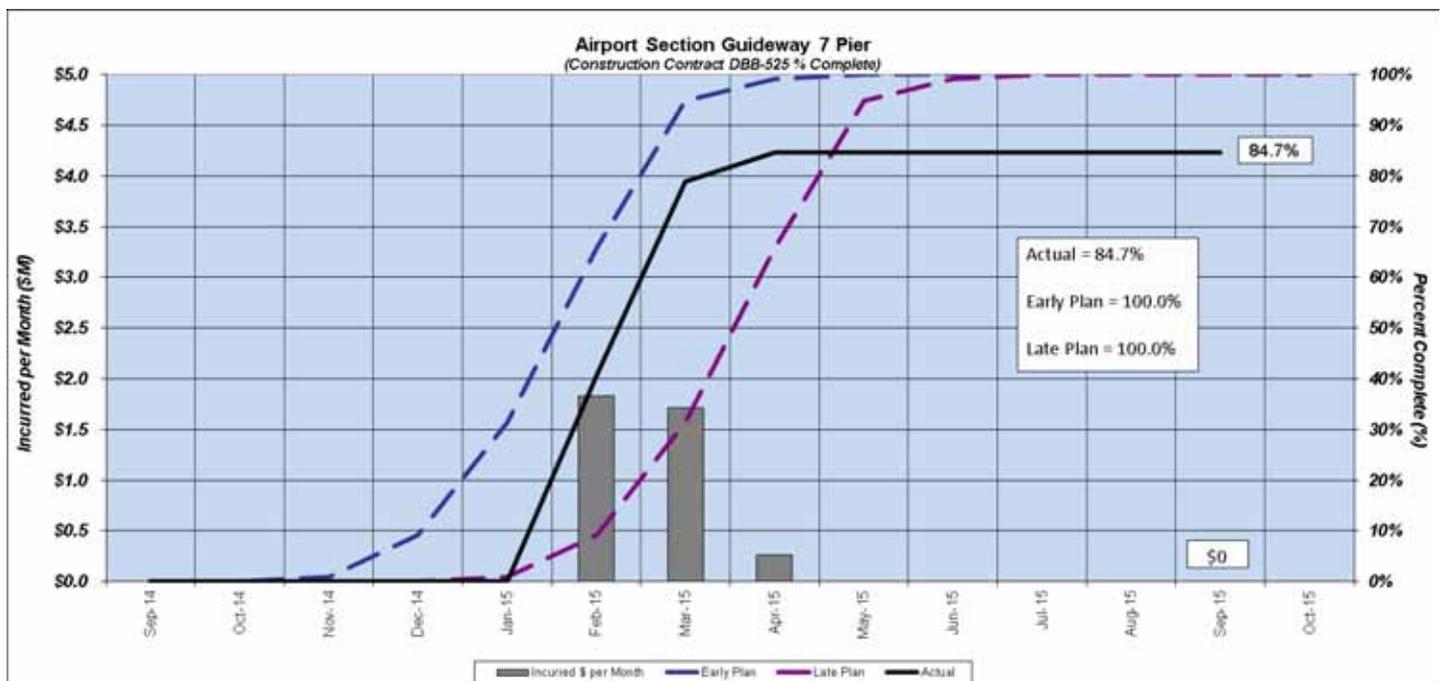
COST INFORMATION:

Original Contract:	\$3,973,000	Incurred-to-Date:	\$3,796,241
Current Contract Value ¹ :	\$4,481,241	Incurred in September:	\$0

¹Current Contract Value = Original contract value (not including contingency) + executed Change Orders

DBE Participation	
Actual DBE Participation:	\$0
DBE % Attained:	0%

September Change Orders		
Change No.	Description	Amount (\$)
None	---	---
Cumulative to Date		\$508,241



The progress chart reflects early program expectations. When the overall schedule is rebaselined, the cost curve will be revised.

CRITICAL PATH ISSUES:

- None - All work has been completed; currently in the process of processing a final Change Order and closing the contract out.
-

WORK PROGRESS:Activities this Month:

Earned Value: 100%; Planned Value: 100%

Look Ahead:

- HART is processing a change order for:
 - Change proposal for Temporary Fill at Piers 551R and 550.
 - Double handling of drilling spoils.
 - Additional core sample test to confirm Pier 551R concrete.
 - Force Account work for Pier 548 Utility Conflicts.
 - HDCC/CJA JV has the following items to submit for Contract Closeout:
 - Complete entering Certified Payrolls to LCP Tracker.
 - Provide Release of Liens.
 - Submit final DBE forms.
 - Submit final invoice.
-

KEY ISSUES:

- None.

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:

- Airport Guideway and Stations DB
 - In active DB procurement



Project Description: Architectural and engineering services for the design of four (4) transit stations serving 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.

Project Overview: These four stations have been combined with the guideway into a single Airport Guideway and Stations Design-Build (DB) package. This package is in active procurement.

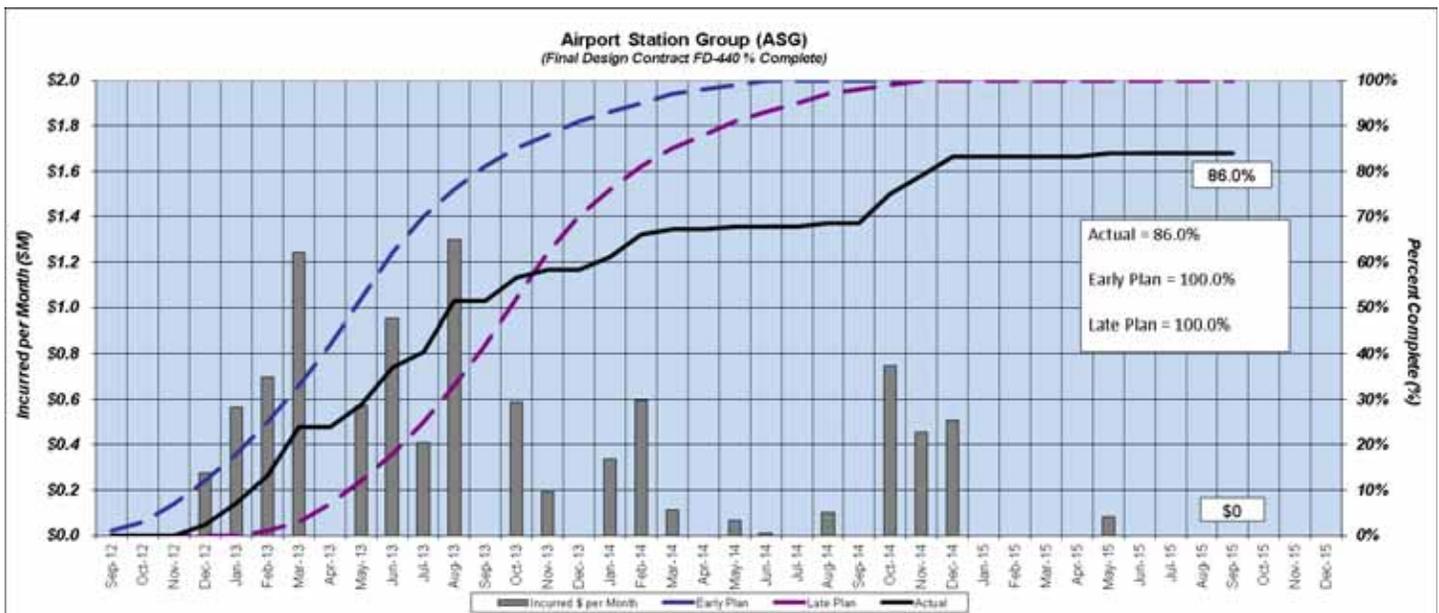
COST INFORMATION:

<u>Original Contract:</u>	<u>\$10,177,365</u>	<u>Incurred-to-Date:</u>	<u>\$9,801,978</u>
<u>Current Contract Value¹:</u>	<u>\$11,672,205</u>	<u>Incurred in September:</u>	<u>\$0</u>

¹Current Contract Value = Original contract value (not including contingency) with Design Allowance + executed Change Orders

DBE Participation	
Actual DBE Participation:	\$234,761
DBE % Attained:	2.31%

September Change Orders		
Change No.	Description	Amount (\$)
None	---	---
Cumulative to Date		\$1,514,840



The progress chart reflects early program expectations. When the overall schedule is rebaselined, the cost curve will be revised.

Due to the change in procurement strategy from DBB to DB, the design of the Airport Stations Group will not be advanced to completion under this contract.

SCHEDULE:

September 2015 Update			Data Date: 25-Sep-15, Printed On: 09-Oct-15															
Activity Name	Start	Finish	2015			2016				2017				2018				
			Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
Airport - Section 3	02-May-11 A	01-Jun-18																
Airport Station Group	02-May-11 A	01-Jun-18																
Design - Airport Station Group	02-May-11 A	14-Jul-17																
Construction - Airport Station Group	02-Mar-16	01-Jun-18																
Pearl Harbor Station	02-Mar-16	02-Jan-18																
HNL Airport Station	31-May-16	01-Jun-18																
Lagoon Drive Station	18-Apr-16	22-Feb-18																
Middle Street Station	15-Jul-16	13-Apr-18																

CRITICAL PATH ISSUES:

- HART is pursuing access to a small number of remaining properties.
- HART is monitoring the relocation of an AM radio tower currently located near Middle Street Station.

WORK PROGRESS:

Activities this Month:

- Current earned value is approximately 88%.

Look Ahead:

- Award DB contract.
- Confirm relocation of AM antenna.

KEY ISSUES:

- Maintain procurement schedule and deliver on all HART responsibilities under the future contract.

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, Stations and Utilities (DB)
 - In active DB procurement
- Potential Expedited Utilities Package (DBB): January 2016



Project Description: The City Center Guideway and Utilities final design contract consists of 4.2 miles of elevated transit guideway serving eight (8) passenger stations, in addition to roadway widening, utility relocation and other improvements to facilitate construction of the guideway.

Project Overview: This section of the guideway has been combined with eight (8) stations into a single City Center Guideway and Stations (CCGS) Design-Build package. The first part of the two-part CCGS procurement was advertised on Aug. 4, 2015. Part 2 is scheduled for December 2015. An expedited package consisting of early utility and roadway widening work is anticipated for January 2016.

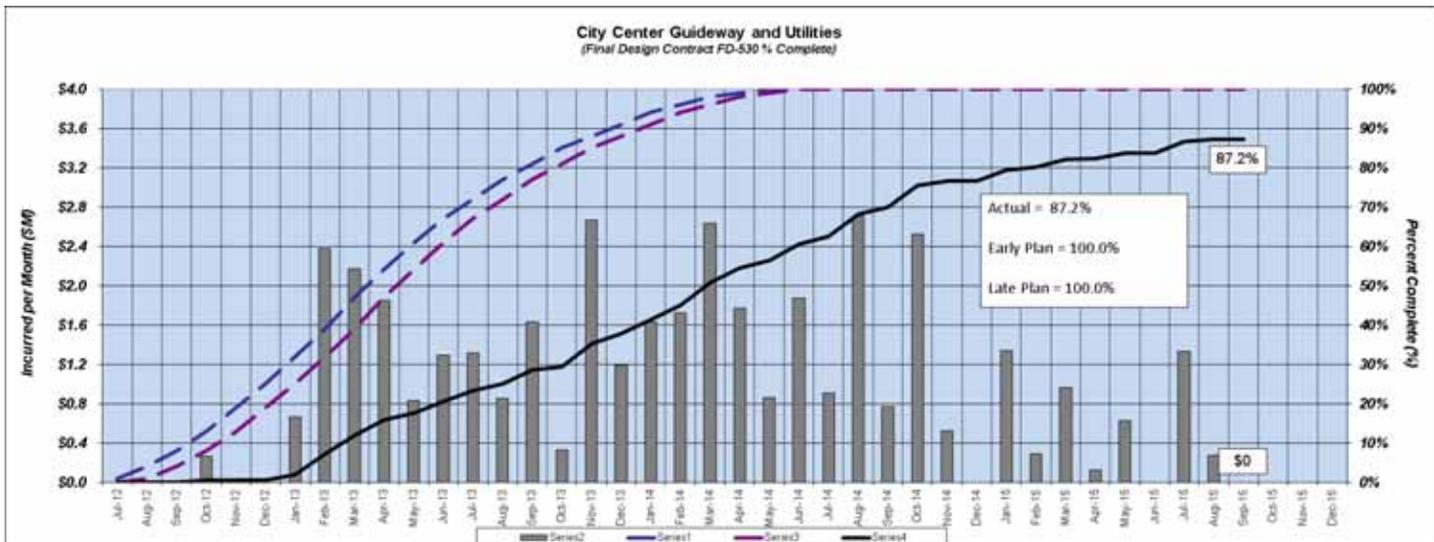
COST INFORMATION:

<u>Original Contract:</u> \$43,948,220	<u>Incurred-to-Date:</u> \$40,284,180
<u>Current Contract Value¹:</u> \$46,183,523	<u>Incurred in September:</u> \$0

¹Current Contract Value = Original contract value (not including contingency) with Design Allowance + executed Change Orders

DBE Participation	
Actual DBE Participation:	\$191,227
DBE % Attained:	0.44%

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



The progress chart reflects early program expectations. When the overall schedule is rebaselined, the cost curve will be revised.

Due to the change in delivery method from DBB to DB, the final design will not be completed under this contract.

SCHEDULE:

September 2015 Update			Data Date: 25-Sep-15, Printed On: 09-Oct-15																				
Activity Name	Start	Finish	2014			2015			2016			2017			2018			2019			2020		
			Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
City Center Section Guideway	19-Aug-11 A	31-Dec-19																					
City Center Programmatic	01-Nov-11 A	05-Oct-15																					
City Center Permits	19-Aug-11 A	08-Dec-16																					
Design - City Center Guideway & Utilities	01-Jul-12 A	25-Sep-15																					
Construction - City Center Guideway and Utilities	02-Aug-16	31-Dec-19																					

CRITICAL PATH ISSUES:

- HART is evaluating the scope of civil and utility work to be expedited in a separate DBB package.
- HART is overseeing coordination between final design consultant AECOM, critical third parties, and utility companies.

WORK PROGRESS:

Activities this Month:

- Current earned value is approximately 91.6%.
- Coordinating with HDOT, HECO and other stakeholders.
- Pursuing rights-of-way and rights of entry.
- Demolition of various properties (On-Call Contractor).

Look Ahead:

- Obtain third-party approvals of design concepts.
- Determine appropriate scope to include in expedited utilities package.
- Finalize requirements for DB bid package.

KEY ISSUES:

- Coordinating with HECO to establish appropriate clearance requirements for electrical lines.

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:

- City Center Guideway & Stations DB
 - In active procurement



Project Description: Design of eight (8) stations for the fourth and final phase of the current project that will connect Dillingham Boulevard to Ala Moana Center.

Project Overview: The DKSG stations are being combined with the City Center Guideway into a single City Center Guideway and Stations Design-Build package.

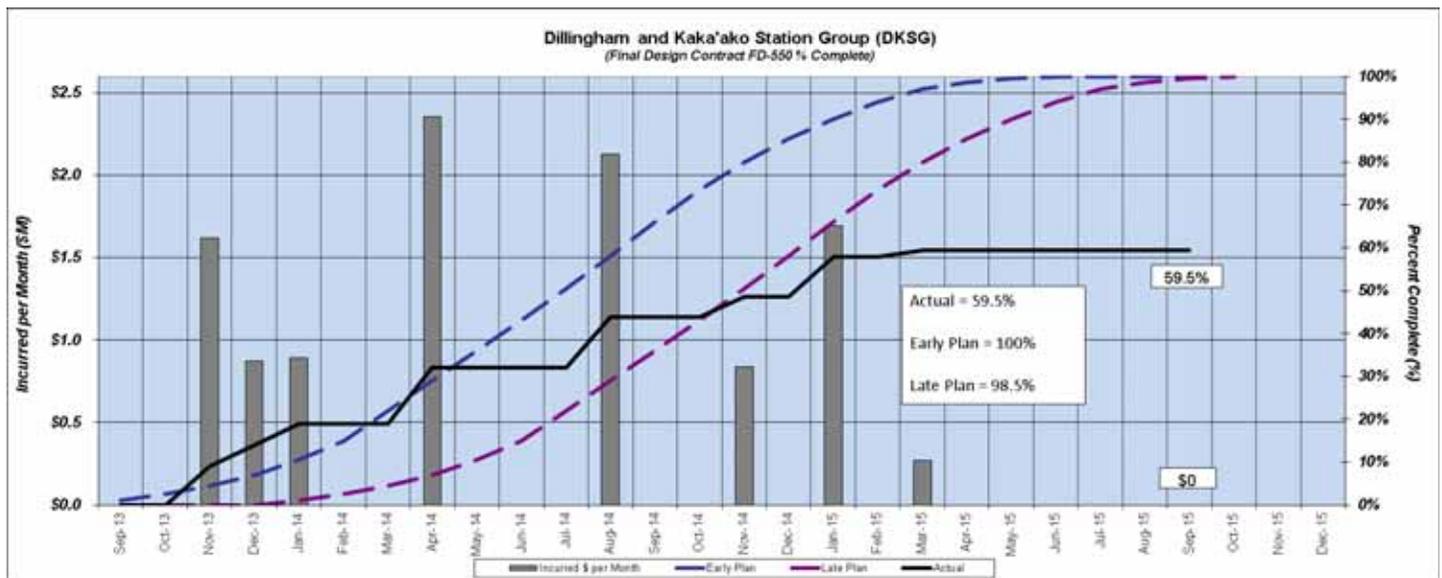
COST INFORMATION:

Original Contract:	\$18,321,918	Incurred-to-Date:	\$10,667,500
Current Contract Value ¹ :	\$19,308,042	Incurred in September:	\$0

¹Current Contract Value = Original contract value (not including contingency) with Design Allowance + executed Change Orders

DBE Participation	
Actual DBE Participation:	\$0
DBE % Attained:	0%

September Change Orders		
Change No.	Description	Amount (\$)
None	---	---
Cumulative to Date		\$1,046,743



The progress chart reflects early program expectations. When the overall schedule is rebaselined, the cost curve will be revised.

The consultant is currently supporting HART with preparing the technical requirements for the DB procurement package.

4.6 Project-Wide

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

Contract No.: MM-901

Contractor: InfraConsult LLC

Contract Start Date: March 8, 2012

Contract Completion: March 7, 2016, with option to renew contract one additional year

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:

Original Contract: \$33,376,897	Incurred-to-Date: \$34,945,136
Current Contract Value ¹ : \$40,993,274	Incurred in September: \$854,709

¹Current Contract Value = Original contract value (not including contingency) + executed Change Orders

DBE Participation	
Actual DBE Participation:	\$0
DBE % Attained:	0%

September Change Orders		
Change No.	Description	Amount (\$)
None	---	---
Cumulative to Date		\$7,616,377



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: April 5, 2019, with option to extend for up to three (3) additional years

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

Project Overview: The GEC III is supporting HART with procurement packages, review of independent cost estimates, evaluation of east segment schedules, and developing Hawaiian Electric Facility avoidance and minimization impact alternatives.

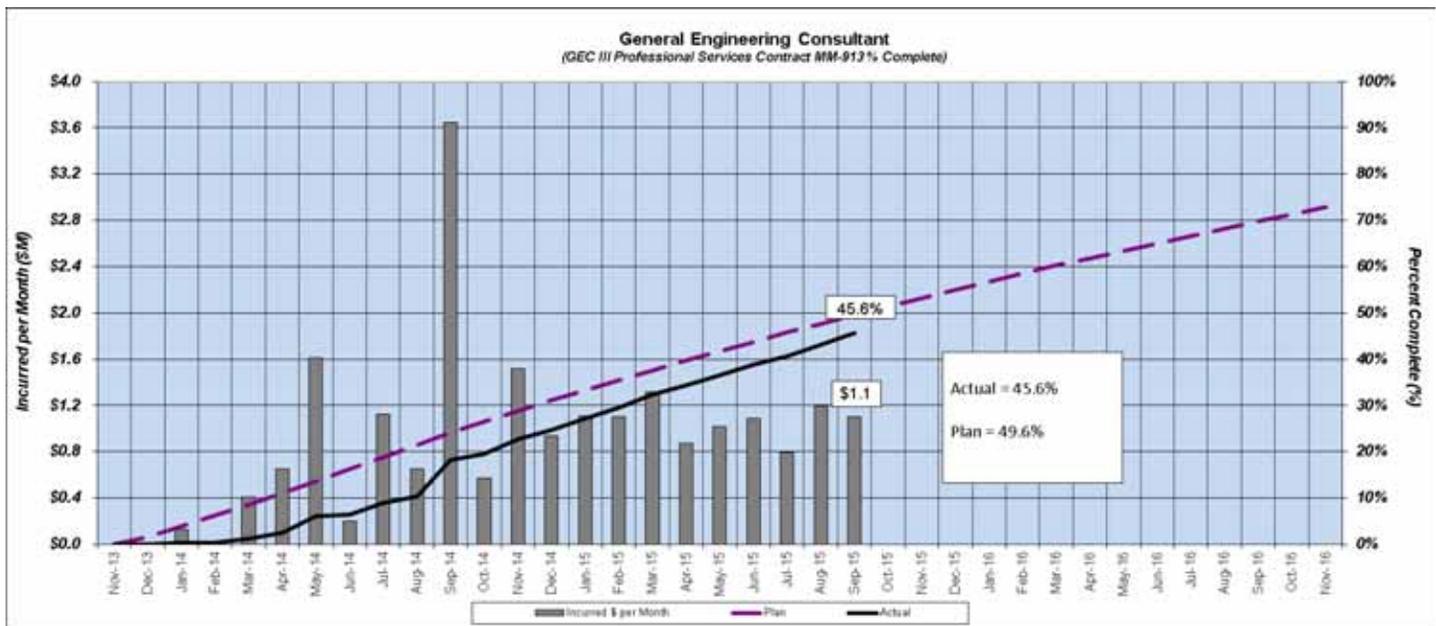
COST INFORMATION:

<u>Original Contract:</u>	<u>\$46,143,277</u>	<u>Incurred-to-Date:</u>	<u>\$21,051,360</u>
<u>Current Contract Value¹:</u>	<u>\$46,143,277</u>	<u>Incurred in September:</u>	<u>\$1,105,922</u>

¹Current Contract Value = Original contract value (not including contingency) + executed Change Orders

DBE Participation	
Actual DBE Participation:	\$1,687,679
DBE % Attained:	3.66%

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



KEY ISSUES:

- Integrating schedule estimates for interim opening and revenue service opening with financial forecast and estimate to complete of contracted work.
- Participate in task force to develop alternatives to meet clearance requirements for Hawaiian Electric facilities.
- Continue progress on Historic Context Studies and permits.
- Provide support to procurement for KHSG, Airport Guideway and Stations (AGS), and City Center Guideway and Stations.

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

Projected Substantial Completion: December 2018

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, west section station group’s 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.

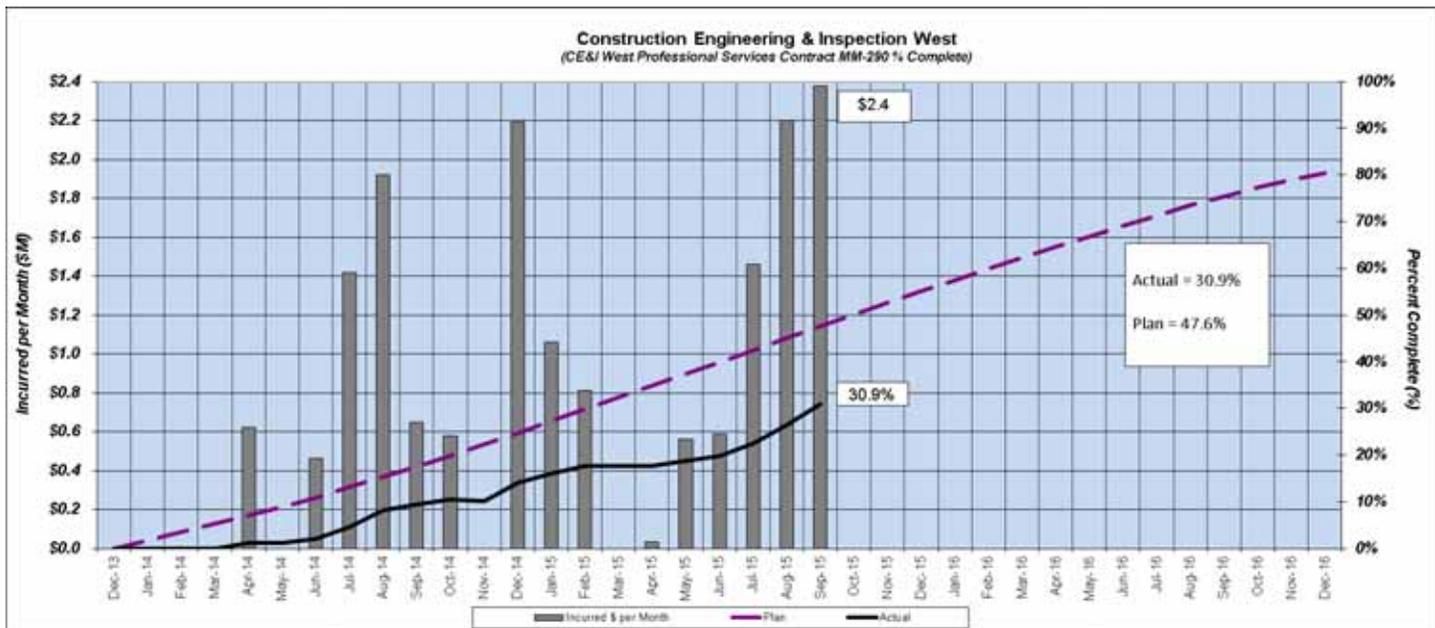
COST INFORMATION:

<u>Original Contract:</u>	<u>\$54,232,480</u>	<u>Incurred-to-Date:</u>	<u>\$16,766,614</u>
<u>Current Contract Value¹:</u>	<u>\$54,232,480</u>	<u>Incurred in September:</u>	<u>\$2,376,104</u>

¹Current Contract Value = Original contract value (not including contingency) + executed Change Orders

DBE Participation	
Actual DBE Participation:	\$981,762
DBE % Attained:	1.81%

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



KEY ISSUES:

- In the process of procuring a combined field office space to support the staffing requirements for the west section station group’s multiple procurement contracts. A contract amendment will be required to increase the other direct cost reimbursement allowance.
- Recent schedule discussions on guideway and stations contracts need to be aligned with anticipated West CE&I staffing durations.

D. Construction Engineering & Inspection East Side Sections

Contract No.: MM-595

Contractor: URS Corporation

Contract Start Date: January 2014

Contract Completion: December 2015 (MOD no. 1)

Projected Substantial Completion: August 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.

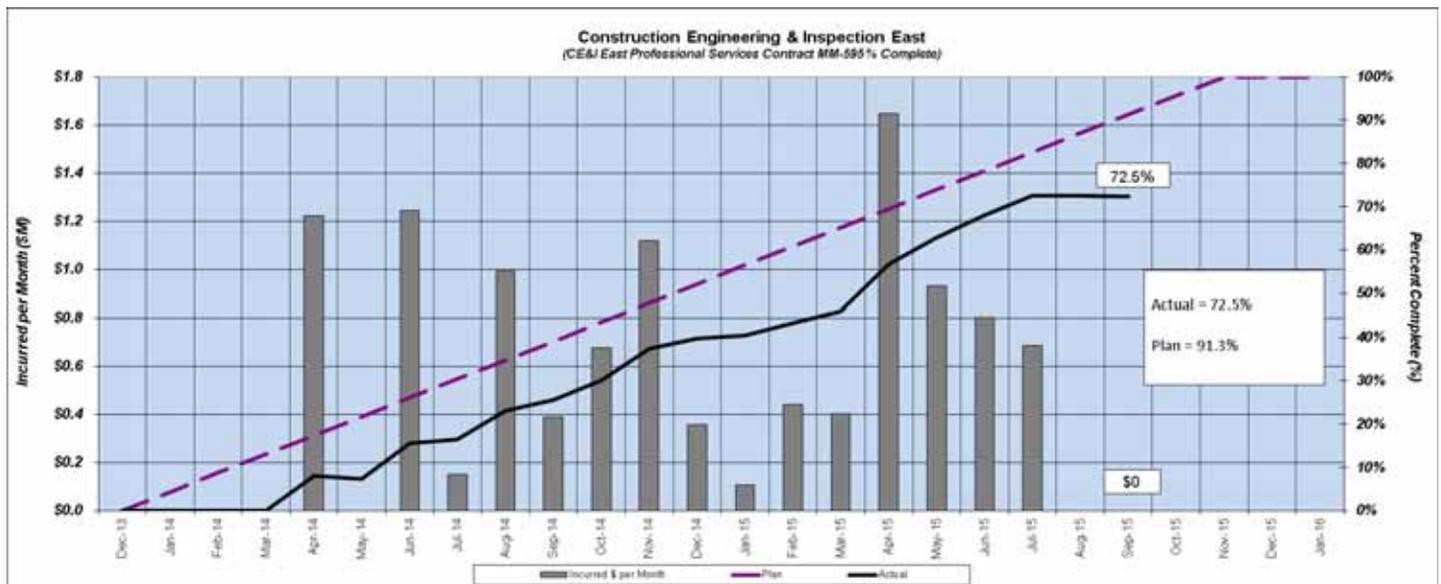
COST INFORMATION:

<u>Original Contract:</u>	<u>\$63,083,417</u>	<u>Incurred-to-Date:</u>	<u>\$11,045,554</u>
<u>Current Contract Value¹:</u>	<u>\$15,257,000</u>	<u>Incurred in September²:</u>	<u>-\$13,657</u>

¹Current Contract Value = Original contract value (not including contingency) + executed Change Orders
²Incurred amount modified due to payment request adjustment

DBE Participation	
Actual DBE Participation:	\$1,323,195
DBE % Attained:	2.1%

September Change Orders		
Change No.	Description	Amount (\$)
None	---	---
Cumulative to Date		-\$47,826,417



KEY ISSUES:

- The new CE&I consultant for the East Section was issued NTP in September 2015. All URS field staff was successfully transitioned off of the project on Oct. 9, 2015, and the final closeout of the URS contract is ongoing over the next two months.
- Transition of the new CE&I team was done seamlessly, with minimal impact to the H RTP.

E. Construction Engineering & Inspection (CE&I) II Contract

Contract No.: MM-596

Contractor: Stantec Consulting Services Inc.

Contract Start Date: September 2015

Contract Completion: December 2019

Projected Substantial Completion: December 2019

Project Description: The Stantec team is assuming responsibility for Construction, Engineering and Inspection (CE&I) services for the east portion of the Honolulu Rail Transit Project (HRT) for the Honolulu Authority for Rapid Transportation (HART).

The Stantec 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.

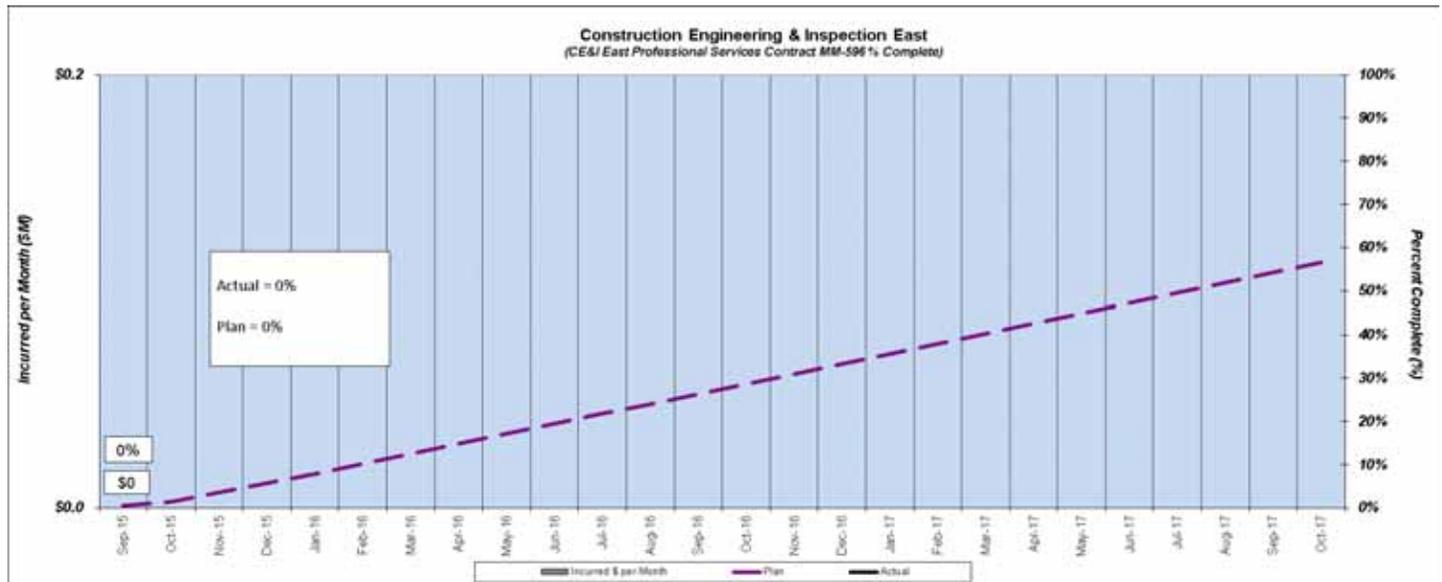
COST INFORMATION:

Original Contract:	\$55,036,130	Incurred-to-Date:	\$0
Current Contract Value ¹ :	\$55,036,130	Incurred in September:	\$0

¹Current Contract Value = Original contract value (not including contingency) + executed Change Orders

DBE Participation	
Actual DBE Participation:	\$0
DBE % Attained:	0%

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



KEY ISSUES:

- NTP for the new CE&I contract for the East Section was issued on Sept. 14, 2015. The consultant mobilized the same week to begin transitioning with the previous CE&I team. The consultant also began a 90 Day Deliverable Program consisting of the review and production of twelve documents. Through October, six of these documents have been submitted to HART.
- HART has requested an ICE (Independent Cost Estimate) be performed on the Airport Guideway and Stations DB contract, the Dillingham Utilities and Roadway DBB contract, and the City Center Guideway and Stations DB contract. These ICE's will be completed over the next five months and in advance of the bid opening dates.
- Transition with the previous CE&I staff was successfully completed. New CE&I staff have been fully mobilized and are working both in the field and in HART offices. The last unfilled position, a permanent construction manager, has been hired and will begin on Nov. 2

F. Core Systems Contract Oversight Consultant

Contract No.: MM-962

Contractor: Lea+Elliott, Inc.

Contract Start Date: February 2014

Contract Completion: August 2019

Projected Substantial Completion: N/A

Project Description: Provide professional services for design and construction management and testing/commissioning oversight of the Core Systems Design-Build-Operate-Maintain (DBOM) contract. The major systems of the Core Systems DBOM contract are the vehicles, automated train control (ATC) system, traction electrification system, communications system, and platform screen gate system (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.

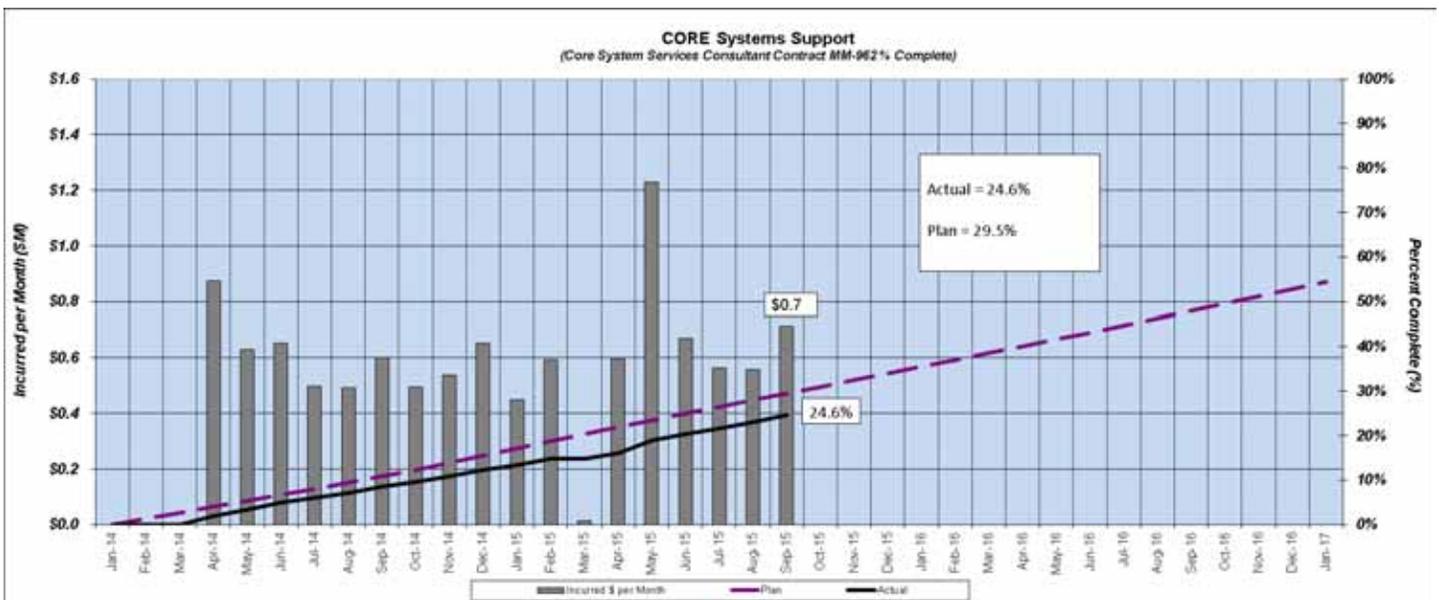
COST INFORMATION:

<u>Original Contract:</u>	<u>\$43,988,989</u>	<u>Incurred-to-Date:</u>	<u>\$10,812,962</u>
<u>Current Contract Value¹:</u>	<u>\$43,988,989</u>	<u>Incurred in September:</u>	<u>\$711,557</u>

¹Current Contract Value = Original contract value (not including contingency) + executed Change Orders

DBE Participation	
Actual DBE Participation:	\$251,920
DBE % Attained:	0.57%

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



KEY ISSUES:

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

G. On-Call Construction Contractor

Contract No.: MM-945

Contractor: Royal Contracting Co. Ltd.

Contract Start Date: August 2014

Contract Completion: July 2019

Projected Substantial Completion: The On-Call Contract is Task Order based with each Task Order having a specific Substantial Completion date.

Project Description: The On-Call Contract performs tasks not generally covered in the general construction contracts. These activities include demolition of structures; repairs to existing HART facilities; relocation of trees and other minor facilities such as bus stops, street lighting, etc.; minor civil/utility work, and repair of third-party facilities such as road repair/patching as requested by HDOT in the HART right-of-way and as allowed by third-party agreements. The intent of the On-Call Contract is to provide HART a contractual tool to address those required work items not easily addressed by the general contractors working to specific scopes.

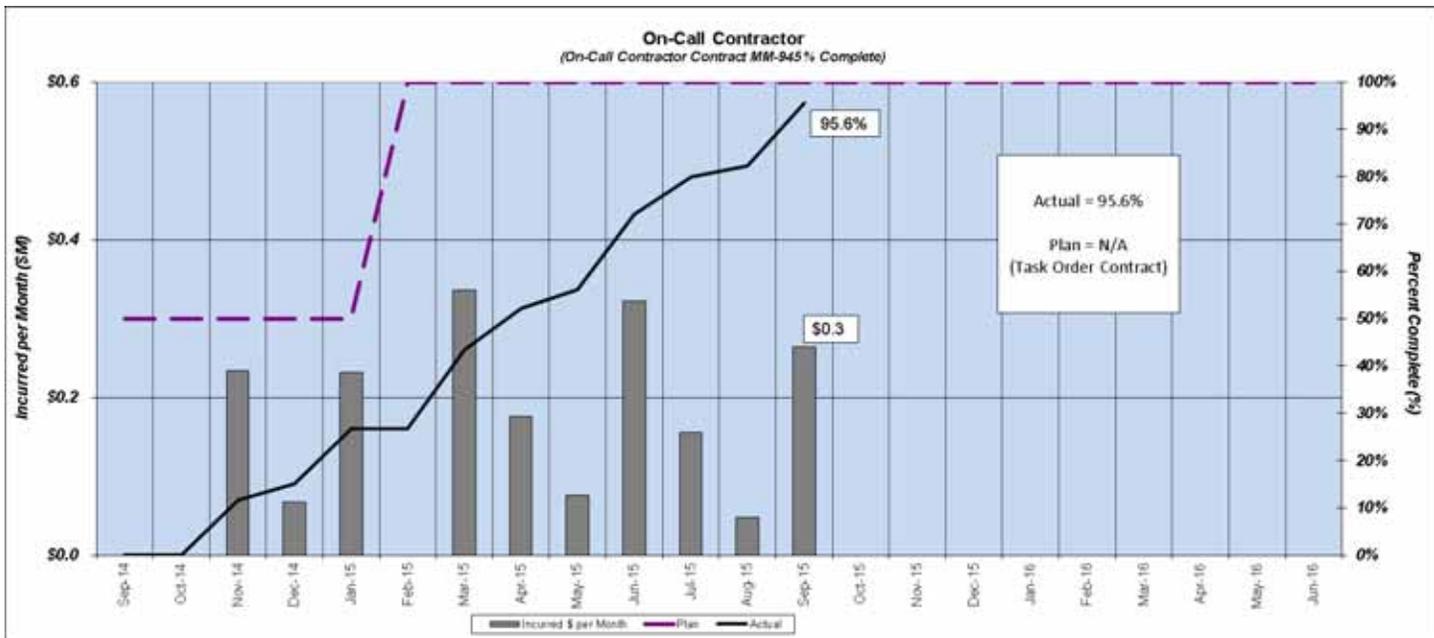
COST INFORMATION:

<u>Original Contract:</u>	<u>\$1,000,000</u>	<u>Incurred-to-Date:</u>	<u>\$1,911,070</u>
<u>Current Contract Value¹:</u>	<u>\$1,999,951</u>	<u>Incurred in September:</u>	<u>\$264,518</u>

¹Current Contract Value = Original contract value (not including contingency) + executed Change Orders

DBE Participation	
Actual DBE Participation:	\$0
DBE % Attained:	0%

September Change Orders		
Change No.	Description	Amount (\$)
None	---	---
Cumulative to Date		\$999,951



KEY ISSUES:

- The On-Call Contractor has successfully:
 - demolished twenty-four buildings located in the WOFH, KHG and City Center right-of-way.
 - relocated/removed more than 70 trees in the Airport right-of-way. Twenty trees located at the Pearl Harbor Interchange were relocated in October.
 - repaired/protected multiple facilities owned by HART.
- The On-Call Contractor is in the process of working with HART’s right-of-way group and owners in providing cost to cure solutions to properties which will need modification in achieving cleared right-of-way in the Airport and City Center sections of the guideway.
- Demolition of HART owned facilities in the Airport and City Center sections of the right-of-way have been resolved and demolition activities have resumed. Twenty-five (25) of the 28 buildings targeted for demolition were completed by the end of October. All demolition work includes the abatement of any hazardous materials identified prior to demolition. Two remaining structures are scheduled for demolition in January 2016, as the current tenant has not yet relocated from the building.
- Maintenance of landscaping along Kamehameha and Nimitz Highways was accomplished during the month of October.
- Continued to support the Core Systems contractor for work at MSF.

5 OVERALL PROJECT-WIDE ACTIVITIES

Permits (Section 5.1)

OVERVIEW

- HART and Kiewit have increased noise monitoring and associated mitigation efforts in order to address resident concerns about noise levels in construction areas along the West O'ahu/Farrington (WOFH) and Kamehameha Highway Guideway (KHG) sections.

KEY ISSUES

- HART continues to work with Hawai'i Department of Health (HDOH) regarding ongoing community noise issues in the WOFH and KHG sections.
- HART is continuing to work with the Navy and HDOH on monitoring and mitigation of known contaminated sites along project construction areas.

Hawai'i Department of Transportation (HDOT) Agreements (Section 5.2)

OVERVIEW

- Ongoing coordination for ITS, MOT and final operational expectations. Temporary ITS is fully operational and temporary Closed Circuit Cameras are in place to observe traffic and make appropriate adjustments to signal timing as necessary. Signal timing, in most cases, is maximized in the westbound direction during the afternoon peak. HART has been coordinating with DTS on adjustments.

KEY ISSUES

- Discussions begin with HDOT to include project funding for betterments being requested by HDOT. An MOU is drafted and being transmitted for HDOT comment.
- Ensure all agreement requirements have been met for HDOT Airports.

Utility Agreements (Section 5.3)

OVERVIEW

- Draft City Center Construction Agreements have been issued to HTI, TW telecom, and Oceanic for review and comment. Review of current status and outstanding comments to be addressed this month.
- Executed Memorandum of Understanding (MOU) between HECO and HART regarding Rights-of-Entry (ROEs) associated with the HECO Rearranged Facilities.
- The Utility Agreements Status table (Section 5.3) is being updated to reflect outstanding agreements, pending amendments, and any applicable MOUs to better communicate the full scope of work pending and accomplished in the agreement section.
- Some issues in construction of utility work may necessitate additional amendments to clarify and include utility work not originally anticipated, especially in the Airport Utility contract. As these are unknown, they have not yet been reflected in Section 5.3.

KEY ISSUES

- HART continues to address multiple issues with HECO that may affect the design and construction of planned work. HART is continuing to meet with HECO on a weekly basis to resolve the issues. Executive meetings continue to include HART's Executive Director and CEO, and HECO's President.
- Researching required amendments or new agreements necessary for temporary pole relocations in City Center guideway work.

Right-of-Way (Section 5.4)

(Data as of Oct. 12, 2015)

OVERVIEW

- Currently, there are no ROW actions impeding construction work. Site control has been obtained for nearly 14 million square feet or 92% of the total square footage that is required for the project. The ROW team continues to seek site access or complete acquisitions to ensure construction is not delayed. The process has started for parcels that may require eminent domain proceedings, although HART is simultaneously continuing negotiations with owners to obtain access.

KEY ISSUES

- Working to resolve third-party agreements with UH West O'ahu and Honolulu Community College in order to allow construction to proceed without delay.
- Working to obtain right of entry from Aloha Stadium for station park-and-ride construction.
- HART proposed the use of irrevocable right of entry documents (Right-of-Entry, Possession and Use Agreement) to gain control of a parcel prior to eminent domain. However, the use of the irrevocable right of entry has been delayed due to concerns expressed by owners regarding liability arising from third parties. This approach is a modification of the current procedures, and HART has updated the Real Estate Acquisition and Relocation Management Plan (RAMP) to include this approach. HART is refining the proposal to address the owners' concerns.
- Eminent Domain:
 - The HART Board approved the resolutions to notify the Honolulu City Council of eminent domain for the following cases. While HART has received approval for most of the cases, the HART staff is striving to reach an agreement with each owner.
 - Five cases were forwarded by staff to the HART Board of Directors on May 21, 2015, to support the schedule for the Airport Guideway and Stations DB contract.
 - Twenty (20) cases were forwarded to the HART Board on June 25, 2015, primarily to support the schedule for the City Center Guideway and Stations DB contract.
 - Four cases were presented to the HART Board on July 30, 2015, primarily to support the City Center Guideway and Stations DB contract. One case will be resubmitted because of design refinements, and the Honolulu City Council rejected one of the cases.
 - Seven cases were presented to the HART Board on Aug. 27, 2015, primarily to support the schedule for the City Center Guideway and Stations DB contract. The HART Board approved the resolutions and six of the cases were forwarded to the Honolulu City Council. One case required an amendment and was withheld. HART anticipates bringing these cases back to the HART Board for their November meeting.
 - Four cases were presented to the HART Board on Sept. 24, 2015, to support the Airport, and the City Center Guideway and Stations DB contracts. HART anticipates bringing these cases back to the HART Board for their November meeting.
 - HART continues to negotiate with each property owner in an attempt to reach mutual agreement. However, several more parcels may be proposed to the HART Board of Directors for eminent domain to support east DB contracts.

5.1 Permits

• Permits Submitted and In-Progress

- HART submitted a continuance and renewal request for the KHG section Noise Permit Variance.
- HART and Royal Contracting Company submitted the National Pollutant Discharge Elimination System (NPDES) construction permit to the HDOH, and the Municipal Separate Storm Sewer System (MS4) permit to the Hawai'i Department of Transportation, Highways Division (HDOT-HWY).
- HART and Nan submitted a request for a construction staging area along Center Drive and Kamehameha Highway to the Navy for the Airport Section Utilities (ASU).

• Permits and Approvals Granted

- HART received an approval from the HDOH for the West O'ahu Station Group (WOSG) NPDES construction permit, which enables the discharge of storm water from the project to receiving state waters.
- HART and Nan have been approved for the construction staging area near Valkenburgh Street and the H-1 off-ramp for ASU.

• Look Ahead

- Upcoming significant permit activity:
 - HART will submit a letter requesting determination of permit required to the US Army Corps of Engineers (USACE) for Kapalama Stream.
 - HART will submit a Stream Channel Alteration permit application for Kalihi Stream.
 - HART will be continuing consultation with FTA regarding Essential Fish Habitat for City Center segment 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

- City Center Joint Use and Occupancy expected to be executed late-2015.

5.3 Utility Agreements

Utility Agreements Status Matrix

Utility Owner	Status	WOFH		KHG		Airport		City Center	
		ESA	UCA	ESA	UCA	UCA	COMBINED ESA	UCA	
AT&T (Corporation)	Executed	5/11/11	12/20/11	5/18/12	Including with Airport	Combining KHG & City Center and AT&T Gov	12/26/13	Including with Airport	
	NTP	5/12/11	12/21/11						
	Amd 01	7/1/11						Temp Poles	
AT&T (Government Solutions)	Executed			12/26/13		Combining with AT&T Corp	12/26/13	Combining with AT&T Corp	
	NTP								
Chevron	Executed	12/4/09		11/4/11					
	NTP	12/22/09		11/15/11					
	Amd 01	7/1/11							
Hawaiian Telcom	Executed	5/20/10	11/17/14	5/10/12	12/31/14	5/28/15	9/27/13	Draft sent to HTI	
	NTP	6/14/10	11/18/14						
	Amd 01	7/1/11		4/13/15				Temp Poles	
	Amd 02	5/10/12							
HECO	Executed		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 (superseded by Design Services Agreement) City Center Bridging Agreement (superseded by Design Services Agreement)			
	NTP	By Agreement with PB							
		Pre-Construction		Pre-Construction		Pre-Construction			
	Executed	10/30/13		10/4/13					
	Expired	11/29/13		11/29/13					
		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	Clarifying Schedule	11/25/13	Clarifying Schedule Temp Poles
	NTP	11/20/13	11/29/13	11/20/13	11/29/13	11/20/13		11/25/13	
Amd 01								Temp Poles	
Oceanic Time Warner Cable	Executed	12/8/09	12/21/11	1/9/12	6/2/14	12/19/14	4/3/13	Draft sent to Oceanic Temp Poles	
	NTP	12/22/09					4/4/13		
	Amd 01	7/1/11	2/27/14					Temp Poles	
	Amd 02	10/7/13							
Pacific Lightnet/Wavecom	Executed	4/28/10	3/12/12	2/15/12					
	NTP	4/29/10	3/13/12	2/16/12					
	Amd 01	7/1/11							
Sandwich Isle Communications	Executed	5/20/10		4/20/12					
	NTP	6/8/10							
	Amd 01	7/1/11							
Hawai'i GAS	Executed	12/18/09	6/30/11	6/1/12	4/14/14	8/19/14	9/27/13	5/8/15	
	NTP	12/22/09	7/12/11			8/20/14			5/11/15
	Amd 01	7/1/11	10/17/14		8/28/14				
	Amd 02				10/15				
TW telecom	Executed	12/2/09		2/14/12	Oceanic to relocate for TW telecom for KHG		10/11/12	Draft sent to TW telecom Temp Poles	
	NTP	12/22/09		2/16/12					
	Amd 01	7/1/11						Temp Poles	
Tesoro	Executed			2/15/12	9/12/13		8/27/13		
	NTP			2/16/12				9/3/13	
	Amd 01				9/12/14				
	Amd 02				5/13/15				

Legend: = Action this month COR = Corporation Counsel UCA = Utility Construction Agreement
 = Not applicable ESA = Engineering Services Agreement UFRCA = Combined Engineering and Construction Utility Agreement

WOFH

- All WOFH agreements have been executed.

KHG

- All KHG agreements have been executed.
- Processing Hawai'i Gas UCA Amendment No. 02.

AIRPORT

- All engineering utility agreements for the Airport section have been executed.
- HART is reviewing AT&T comments to the draft Construction Agreement. It is not necessary for this agreement to be in place for the Airport Segment utility construction.

CITY CENTER

- All engineering utility agreements for the City Center section have been executed.
- HART reviewed AT&T comments and the revised draft Construction Agreement was sent back to AT&T for review.
- HART has submitted the Utility Construction Agreement for City Center to OTWC for review/comments.
- HART has submitted a draft of the Utility Construction Agreement to TW telecom for review/comments.
- Looking Ahead:
 - Execute Oceanic City Center UCA.
 - Execute Hawaiian Telcom City Center UCA.

HECO

- **Davis-Bacon requirements** – HECO has established a collective bargaining agreement – which does not align with Davis-Bacon requirements – for which HART on behalf of HECO has requested a waiver from the Department of Labor. HART is coordinating to resolve this with HECO.
- **HECO 46kV Substation near MSF area** – HECO indicates a need in the 2018-2019 timeframe for a new 46kV substation to feed the MSF area due to requirements in HECO Rule 13. Initial planning indicates that a currently unused location on the MSF property may be suitable for this facility. HECO is investigating a 'system' substation, which would also feed the area surrounding the MSF.
- **Additional Clearances** – HECO indicates the need for additional horizontal working clearances from overhead pole alignments and additional buffer radial clearances from the actual overhead high-voltage lines.
 - **Horizontal Working Clearances Analysis** – HECO is reviewing the current overhead pole and line locations to identify areas where accessibility for HECO maintenance is a concern. HART is currently reviewing the results of HECO's analysis. Additional HECO re-evaluation is ongoing for pole locations with sub-optimal clearance. HART will also be setting up meetings to further discuss and resolve this with HECO.
 - **Bronto Bucket Truck Rental/Testing** – To allow for increased accessibility for HECO maintenance personnel when considering horizontal working clearances, HECO identified a bucket truck with a telescoping boom (versus a knuckle) and with extendable outrigger supports (versus swinging outrigger supports). The truck allows for greater accessibility and less required setup space than the current larger HECO bucket trucks. HART has agreed to reimburse HECO for 3 months of rental for an un-insulated model of the proposed Bronto Bucket Truck. HART is currently reviewing the HECO Horizontal Working Clearance study. HART will also be setting up meetings to further discuss and resolve this with HECO.
- **New Service Connections** – HECO service requests are required for new electrical services for the MSF, Passenger Stations and Systems Sites (traction power facilities). The Passenger Station designers are providing the service request for the stations and the Core Systems Contractor is providing the service request for the systems sites.
 - **MSF** – Service request approved via receipt of HECO Final Cost Letter and HECO design drawings. Installation of the MSF service is complete, buildings are energized.
 - **Passenger Stations and Systems Sites** – HECO service request reviews are in progress and approvals are anticipated for the west side stations and systems sites. HECO is working to finalize its designs and cost estimates.

5.4 Right-of-Way (data as of Oct. 12, 2015)

BUDGET

	Baseline Budget	Expended	Remaining Budget Balance	Estimate to Completion	Forecast Variance
Acquisition	\$ 201.70	\$ 75.70	\$ 126.00	\$ 112.30	\$ 13.70
Relocation	\$ 20.50	\$ 9.20	\$ 11.30	\$ 15.90	\$ (4.60)
Total (Million)	\$ 222.20	\$ 84.90	\$ 137.30	\$ 128.20	\$ 9.10

Note

- * Administrative overhead costs aggregated with the Acquisition and Relocation numbers
- * Estimate to complete based on offers, appraisals or assessed values

ACQUISITIONS

Figure 13. Right-of-Way Status for the Parcels [data provided by Real Estate Acquisition database (READ)]

	Current No. of Parcels Needed	Appraisals In Process	Appraisals Completed or N/A	Letters of Offer Sent or N/A	Offers Accepted or N/A	Possession Granted For Condemnation	Agreements Completed	Site Control Obtained	Relocations Completed	Properties Available for Contractor	Acquisitions Completed
Full Acquisition											
W.Oahu\Farrington	16		16	14	13	1	2	16	12	16	15
Kamehameha	3		3	3	3			3	1	3	3
Airport	5		5	5	5			5	3	4	4
City Center	18		18	16	16			16	14	13	16
TOTAL	42		42	38	37	1	2	40	30	36	38
Partial Acquisition											
W.Oahu\Farrington	3		3	2	2			3		2	2
Kamehameha	4		4	3	2	1		3		3	1
Airport	11		11	5	1		1	6		4	1
City Center	81		80	65	15			7		3	2
TOTAL	99		98	75	20	1	1	19		12	6
Easement											
W.Oahu\Farrington	16		16	1	1		6	12		10	6
Kamehameha	6		6				1	6		6	1
Airport	34		34	7	1		2	27		27	2
City Center	29		29	8			1	1		1	1
TOTAL	85		85	16	2		10	46		44	10
GRAND TOTAL	226		225	129	59	2	13	105	30	92	54

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:
 - Obtained site control for nearly all the WOFH section properties for both the guideway and stations.
 - Continuing negotiations with UH West O'ahu to secure construction right of entry for the WOFH guideway.
 - In June, the HART Board approved the resolution to notify the Honolulu City Council of eminent domain for one case, and the Honolulu City Council had no objections. The parcel has since been acquired without the use of eminent domain.

KAMEHAMEHA

- Issues:
 - Site access is complete for all private property for Kamehameha.

- Negotiating with Aloha Stadium Authority to obtain right of entry for the construction of the station park-and-ride. HART has obtained the right of entry to construct the guideway.
- In order to support the relocation of utility easements in the Kamehameha section, eminent domain proceedings have been initiated. The HART Board approved one case in August, and the resolution was forwarded to the City Council. HART anticipates bringing the matter back to the HART Board in November. Negotiations are continuing with the private property owner in the Kamehameha section in an attempt to reach mutual agreement.

AIRPORT

- Issues:
 - Negotiations are continuing with the Post Office.
 - Monitoring the Airport Station mapping process.
 - In order to support the upcoming procurement for the Airport Guideway and Station DB contract, eminent domain proceedings have been initiated. Negotiations are continuing with all private property owners in the Airport section in an attempt to reach mutual agreement.
 - In May, June and July, the HART Board approved the resolutions to notify the Honolulu City Council of eminent domain. HART has received eminent domain approval and the status of these cases are:
 - 3 in escrow
 - 4 in negotiations
 - The HART Board approved one case in August, and the resolution was forwarded to the City Council. HART anticipates bringing the matter back to the HART Board in November.
 - The HART Board approved one case in September, and the resolution was forwarded to the City Council. HART anticipates bringing the matter back to the HART Board in November.
- Look Ahead:
 - Working towards completing Post Office acquisition and Airport agreements.

CITY CENTER

- Issues:
 - Continuing to place priority on obtaining site control and acquiring parcels in the Dillingham section.
 - Negotiating with UH Honolulu Community College to secure construction right of entry for the City Center guideway.
 - In order to support the upcoming procurement for the City Center Guideway and Station DB contract, eminent domain proceedings have been initiated. Negotiations are continuing with all private property owners in the City Center section in an attempt to reach mutual agreement.
 - In June and July, the HART Board approved the resolutions to notify the Honolulu City Council of eminent domain. While HART has received eminent domain approval on most of the cases, HART continues to strive to reach an agreement with each owner. The status of the cases are:
 - 1 acquired
 - 8 in escrow
 - 8 in negotiations
 - 2 in eminent domain
 - 1 rejected by the Honolulu City Council
 - 1 to be resubmitted due to design changes
 - The HART Board approved five cases in August, and the resolutions were forwarded to the City Council. HART anticipates bringing the matter back to the HART Board in November.
 - Two cases were forwarded to the HART Board of Directors in September, and the resolutions were forwarded to the City Council. HART anticipates bringing the matter back to the HART Board in November.
 - Other parcels may be presented to the HART Board for eminent domain in the coming months, to ensure that the construction schedule is maintained. HART continues to negotiate with each property owner in an attempt to reach mutual agreement.
- Look Ahead:
 - Evaluate and address the need to advance additional recommendations for eminent domain in order to achieve the Project's schedule.
 - Closely monitor the acquisitions in relation to construction schedules for City Center.

RELOCATIONS

Figure 14. 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	12	12	8	25
Kamehameha		4		4	4	3	3	4
Airport		13		13	5	10		7
City Center	16	66		82	31	46	23	50
Grand Total:	34	89	1	124	52	71	34	86

WEST O’AHU/FARRINGTON

- Look Ahead:
 - The Phase II ESA report has been received for TMK 9-6-004-006. A tentative settlement has been reached and is subject to FTA concurrence.

AIRPORT

- Issue:
 - Continuing relocation for TMK 1-1-016-006.
- Look Ahead:
 - Plans are continuing for several relocations.

CITY CENTER

- Look Ahead:
 - Planning and monitoring relocation of several commercial tenants.

THIRD-PARTY AGREEMENTS

Figure 15. Third-Party Agreement Status

Third-Party Agreements				
Agreement	Status	Target	Section	Notes/Remarks
University of Hawai’i (UH) Master Agreement	Pending	January 2016	WOFH, KHG, City Center	Final negotiations are ongoing. 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 for Station	Pending	January 2016	WOFH	In negotiations. Concerted effort is being made to finalize.
UH - Leeward Community College (LCC) Pre-Construction Right of Entry	Executed		WOFH	
UH - Leeward Community College (LCC) Construction Right of Entry for Guideway	Executed		WOFH	
UH - Leeward Community College (LCC) Construction Right of Entry for Station	Executed		WOFH	
UH - Urban Garden Pre-Construction Right of Entry	Executed		KHG	
UH - Urban Garden Construction Right of Entry	Executed		KHG	Consent to construct in place.
UH - Urban Garden Kiewit Construction Right of Entry	Executed		KHG	
D.R. Horton Agreement for Construction	Executed		WOFH	Allows for construction to proceed.
D.R. Horton Final Easement Agreement	Pending	January 2016	WOFH	Document in process.
UH - Honolulu Community College (HCC) Pre-Construction Right of Entry	Executed		City Center	

Third-Party Agreements				
Agreement	Status	Target	Section	Notes/Remarks
UH - Honolulu Community College (HCC) Construction Right of Entry for Station	Pending	January 2016	City Center	In negotiations. Concerted effort is being made to finalize.
Department of Land and Natural Resources (DLNR) Right of Entry (Kapolei)	Executed		WOFH	Consent to construct in place.
Department of Land and Natural Resources (DLNR) Easement (Kapolei)	Pending	January 2016	WOFH	Easement documents in process.
City Dept. of Parks & Recreation (DPR) (MSF drainage)	Executed		WOFH	Consent to construct in place.
Department of Land and Natural Resources (DLNR) Keehi Lagoon Right of Entry	Executed		Airport	Consent to construct in place.
Department of Land and Natural Resources (DLNR) Keehi Lagoon Easement	Pending	January 2016	Airport	Process Easement Agreement.
Department of Education Master Agreement and Consent to Construct (Waipahu H.S.)	Executed		WOFH	Consent to construct in place. Jurisdictional Transfer in process.
Aloha Stadium / Department of Accounting & General Services (DAGS) MOU for guideway & station	Executed		KHG	
Aloha Stadium / Department of Accounting & General Services (DAGS) Right of Entry for guideway	Executed		KHG	Limited ROE granted for staging for Kiewit for KHG contract.
Aloha Stadium / Department of Accounting & General Services (DAGS) Right of Entry for guideway	Executed		KHG	Construction ROE in place.
Aloha Stadium / Department of Accounting & General Services (DAGS) Easement for guideway	Pending	January 2016	KHG	Easement in process.
Aloha Stadium / Department of Accounting & General Services (DAGS) Right of Entry for station park and ride	Pending	January 2016	KHG	In negotiations.
Aloha Stadium / Department of Accounting & General Services (DAGS) Easement for guideway	Pending	January 2016	KHG	Process Easement Agreement.
DHHL Master Agreement	Executed		WOFH, MSF	
DHHL License	Executed		WOFH, MSF	Consent to construct in place.
HDOT Master Agreement	Executed		WOFH	
HDOT Joint Use & Occupancy (JU&O) Sub-agreement	Executed		WOFH	Consent to construct in place.
HDOT Master Agreement for KHG, Airport and City Center	Executed		KHG, Airport, City Center	
HDOT Joint Use & Occupancy (JU&O) Sub-agreement	Executed		KHG	Consent to construct in place.
HDOT Joint Use & Occupancy (JU&O) Sub-agreement for Airport Division parcels	Executed		Airport	Consent to construct in place.
HDOT Easement Agreement for Airport Division parcels	Pending	January 2016	Airport	Process Easement Agreement.
HDOT Joint Use & Occupancy (JU&O) Sub-agreement for Airport leased/revenue parcels	Pending	January 2016	Airport	Sub-agreement in process.
HDOT Joint Use & Occupancy (JU&O) Sub-agreement	Pending	January 2016	City Center	Sub-agreement in process.
HDOT SOA MOU	Executed		Program	
OCDC/Hawai'i Department of Public Safety Agreement Dillingham Blvd.	Pending	January 2016	City Center	Finalizing requirements.
HI Community Development Agreement (HCDA)	Pending	January 2016	City Center	Coordination is ongoing.

Third-Party Agreements				
Agreement	Status	Target	Section	Notes/Remarks
Department of Accounting & General Services (DAGS)/HHFDC Right of Entry	Pending	January 2016	City Center	Consent to construct in process.
Department of Accounting & General Services (DAGS)/HHFDC Easement	Pending	January 2016	City Center	Process Easement Agreement.
City Dept. of Transportation Services (DTS) (Middle St.)	Pending	January 2016	Airport	Joint Use MOU in process. Pending design.
U.S. Navy Licenses	Executed		WOFH, KHG, Airport	Consent to construct received. Formal notification is forthcoming, however, immediate access is granted.
U.S. Navy	Pending	January 2016	WOFH, KHG, Airport	Land court documents processed and awaiting recordation and filing.
U.S. Navy Pearl Harbor Station	Adopted		Airport	Congressional approval received and immediate access is granted.
U.S. Post Office Honolulu Processing Center acquisition	Pending	January 2016	Airport	In negotiations.
U.S. Gov't/GSA/Federal Courthouse Agreement & Landscape Plan	Pending	January 2016	City Center	Draft agreement is under review and discussions are ongoing.
City Dept. of Transportation Services (DTS) (Middle St./Kamehameha Hwy)	Pending	January 2016	Airport	Joint Use MOU in process.
City Dept. of Facility Maintenance (DFM) (Kamehameha Hwy/Makalapa Manor)	Executed		Airport	
City Dept. of Facility Maintenance (DFM) (N. Nimitz & Awa St.)	Pending	January 2016	City Center	Joint Use MOU in process.
City Dept. of Facility Maintenance (DFM) (Kohou St.)	Pending	January 2016	City Center	Joint Use MOU in process.

6 MANAGEMENT AND ADMINISTRATIVE UPDATES

Safety and Security (S&S) (Section 6.1)

OVERVIEW

- **S&S Certification Program**
 - **Certification documents:** (See status chart)
 - **Design Criteria Conformance Checklists (DCCC) development and verification:** (See status chart)
 - **Civil – Construction Spec Conform Checklist (CSCC) development/verification:** (See status chart)
 - **Core Systems – Spec/Testing Conform Checklists (STCC) development/verification:** (See status chart)
 - The following Passenger Vehicle (PV) STCCs are ready for December SSRC approval (No November Meeting anticipated)
 - » 1) General requirements – Applies to all Vehicles
 - » 2) Interim Certification to enter Dynamic Testing
 - **Base Operational Readiness Conformance Checklists (ORCC):** Projected for 12/09/2015 SSRC approval.
 - **PHAs and Core Systems SSHAs/O&SHAs:** (See certification document status chart)
 - **TVA:** On hold - pending Airport Guideway/stations and City Center Guideway/stations re-design.
 - **Open Items List (OIL):** (See status chart)
 - **Hazard Tracking Log:** No changes
 - **Interim Certification Requirements:**
 - A Preliminary/Base Interim Certification Checklist for the delivery of PV-001 is under review.
 - **Key S&S Certification related meetings held in October 2015:**
 - Fire Life Safety Working Group (FLSWG) meeting: 10/8/2015
 - Operational Readiness Working Group (ORWG) meeting: 10/09/2015
 - Core Systems Sub-systems PM Certification Training Session: 10/13/2015
 - Passenger Vehicle certification meeting: 10/15/2015
 - PMOC monthly review meeting: 10/13-16/2015
 - SSO Quarterly Review: 10/19-21/2015
 - Open Items List and Hazard Tracking Log meeting, Senior PM Leadership: 10/26/2015
 - Safety and Security Review Committee (SSRC) meeting: 10/28/2015
 - Bi-weekly and/or monthly project coordination meetings with Core Systems, MSF, WOFH and KHG
 - HART Safety and Security weekly meeting with HDOT
 - The SSRC reviewed and approved on 10/28/2015 the following certification document:
 - KHG Systems Sites 10,12, and 24, DCCC – Design Verification
- **S&S Certification Certificates:** See new status chart.
- **Construction Safety and Security:** See status chart.

KEY ISSUES

- The nature of DB/DBOM contracts continues to impact the DCCC verification process as final design is not complete until construction is well underway. HART Safety and Security continues to monitor the DB/DBOM final design schedules to assure the verification effort is accomplished accordingly.
- The rail plinths remain an outstanding issue. The extended fasteners beyond the CDC requirement must be approved and signed off by the RE's prior to HART Safety and Security acceptance.
- The CDC lighting levels for the MSF complex remains an issue. The lighting levels are inadequate to support rail yard operations and basic security concerns and are under internal review based on PHA and TVA results.
- The zoning of the MSF complex as "Parks and Recreational" remains an issue. An internal review is on-going to determine if the zoning needs to be modified to an industrial zone to better support rail system operations and maintenance.

Quality Management (Section 6.2)OVERVIEW

- The HART QMP and HART-approved QAPs of contractors, consultants and suppliers have been assimilated by their respective employees and are being implemented as standard operating procedures. Therefore, less and less Nonconformance Reports (NCR) are reported or encountered.
- Overall quality of the Project is good.
- There are two (2) major NCRs remaining on the WOFH and KHG contracts that need to be addressed and corrected to prevent recurrence and mitigate impact on the overall progress of the project. These NCRs are discussed in more detail in the Key Issues of Section 6.2.
- Reviewing Schindler Elevators and Escalators response to the HART Combined QA and Buy America Audit on the DFIM contract, which was held on Sept. 10, 2015.
- Performed QA audit of KIWC Public Information Group on the WOFH and KHG contracts on Oct. 23-24, 2015.
- Performed QA audit of PGH Wong (CE&I West) on WOFH, KHG, MSF and E&E contracts on Oct. 28-29, 2015.

KEY ISSUES

- Erection and finishing of spans (12-segments) and installation of permanent “shear keys” between the WOFH guideway columns and spans.
- Construction of KHG drilled shafts, columns and segments (Casting Facility).
- Resolution of two (2) major NCRs: cracked segments 1, 2, 11 and 12 of Span 17 repair, and Drilled Shafts (Crosshole Sonic Logging Reports) quality and repairs.
- Construction of MSF Yard Ballasted Track: Alignment, Profile, Geometry, Sub-ballast, Drainage, Ballast, Grade Crossings, Welding, Stress Relieving, Concrete Ties, Contact Rail, Switches, etc.
- Installation and welding of rails and turnouts on top of the WOFH guideway.
- Construction of WOFH Balanced Cantilever Segmental Spans.
- Manufacturing of Carbody(s) at AnsaldoBreda and its subcontractor manufacturing facilities in Italy.
- Final Assembly of passenger vehicles at AB Inc. facility in Pittsburg, CA.
- Pre-shipment, I&T and First Article Inspections (FAI) of wayside core system and passenger vehicles materials, parts and components.

Buy America Compliance (Section 6.3)OVERVIEW and KEY ISSUES

- HART is initiating a review of an issue regarding variable refrigerant flow (VRF) system and its conformance with Buy America.

Disadvantaged Business Enterprise (Section 6.4)OVERVIEW

- \$28,555,856 = total dollar participation for all DBEs on all HART contracts from 9/24/07 to 10/31/15.

Planning and Environment (Section 6.5)OVERVIEW

- HART’s Planning and Environmental team continues to collaborate with city, state, and federal agencies to ensure proper environmental review occurs in advance of procurement and construction activities.

KEY ISSUES

- HART is completing final review of environmental documentation and requirements for Airport and City Center Stations and Guideway bid packages.

Risk Management (Section 6.6)OVERVIEW

- There are a total of 142 risks in the October 2015 risk register, compared to 229 in October 2014, a year ago. There were 12 risks deleted and 6 new risks added for the month. Reviews for the month were conducted for WOSG, FHSG, City Center Guideway, Dillingham/Kaka’ako Stations, Airport Utilities, Airport Guideway and Airport Stations Group. For reporting and tracking purposes, going forward, the Airport Guideway risks have been combined with the Airport Stations Group.

KEY ISSUES

- Risks associated with the market, right-of-way, utilities and third parties remain at the top of the list of concerns.
- The construction market represents a particularly challenging situation for HART. The GET extension to cover capital cost overruns due to court and procurement protest delays has made it through the Legislature and Governor's approvals.
 - All that remains is City Council approval to once again fund the capital construction and provide replacement funding for the 5307 bus monies. Without City Council approval by December, HART will need to decide whether they can proceed with procurement of City Center Guideway and Stations to Phase 2. The contractors bidding the project need to know the funding is secure in order to provide their best pricing. Further, HART cannot legally award a contract without committed funding.
- Right-of-way resources for securing utility easements is a new issue due the volume and staffing resources to secure them timely. This is diverting staff previously committed to property acquisitions. Additional resources and/or clear priorities to clear both easements and property are important to avoid contractor delay.
- Third party actions are taking longer than expected to resolve, exposing HART's contractors to potential delay in the performance of their work unless there are work around alternatives available to minimize risk impacts to cost or schedule.
 - HECO and University of Hawai'i issues remain critical as well as various required permits for noise and in water work.

Community Outreach (Section 6.7)

OVERVIEW

- HART's Rail Operations Center is about 80 percent complete and HART shared that progress with media and the public.
- HART's Shop & Dine on the Line programs continues to grow, with nearly 100 businesses now signed up for the program.
- HART's outreach team participated in more than 25 presentations, meetings and events this month, including major community events in the urban core.

KEY ISSUES

- Traffic management continues to be a key issue surrounding construction work in the project's corridor. HART's public outreach team responded to about 100 public inquiries this month. Inquiries were related to traffic, construction and business outreach programs.
- Business mitigation remains a priority for HART's outreach team. Meetings with businesses and stakeholders in the urban core also continued this month.

Staffing (Section 6.8)

OVERVIEW

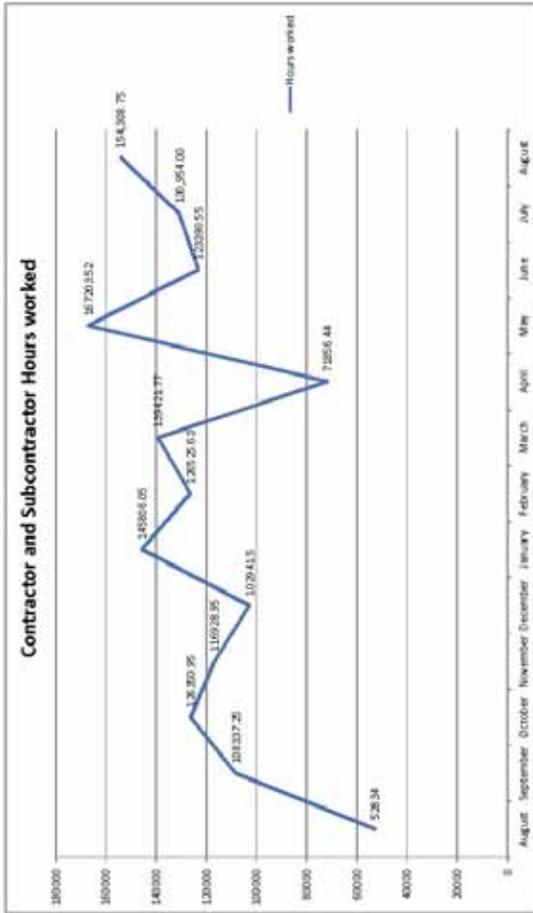
- The Director of Planning, Permitting and Right-of-Way will be departing the project at the end of October. Interviews have been completed and a candidate has been selected. The new Director is planned to start in late November or early December.
- The Lead Scheduler position was filled with an existing HART employee as a promotional opportunity.
- HART prioritizes filling all vacancies with City employees and supplements the City staff with consultants when required and appropriate.

KEY ISSUES

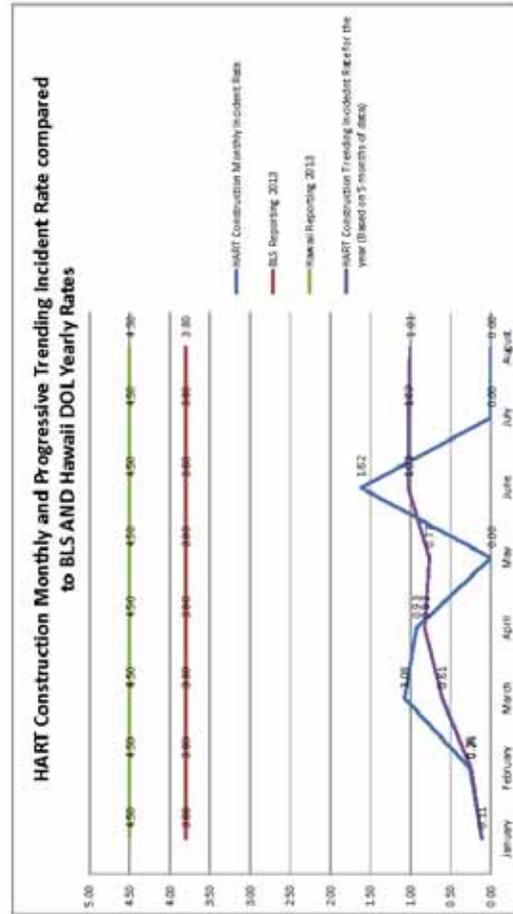
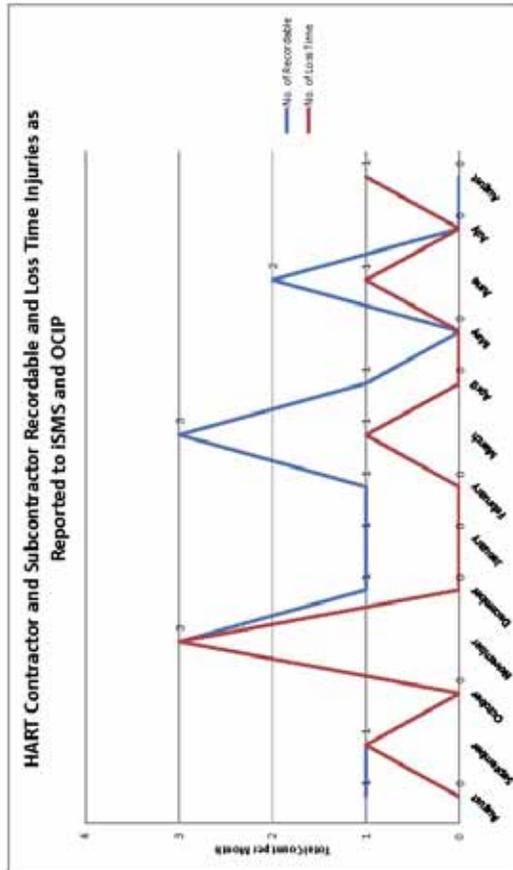
- The organization chart was submitted at the August Project Quarterly Meeting and is included with this report. An updated chart will be provided when the new Director of Planning, Permitting and Right-of-Way is onboard.

6.1 Safety and Security

	2014		2015	
	Hours worked	No. of Recordable	Hours worked	No. of Recordable
January	62834	1	145806.02	1
February	108337.25	1	126525.63	1
March	126350.85	0	138421.17	3
April	118920.85	0	71856.44	1
May	102641.13	0	167203.52	0
June	507392.89	0	123390.55	2
July		0	130954.00	0
August		1	154380.71	0
September		1		0
October		0		0
November		0		0
December		0		0
Total	507392.89	3	1058538.04	6



Work Hours for WOPH, KHG, MSF, Air Port, CORE System as reported to OClP and certified.



Project-Wide Incident Activity (data as of Oct. 27, 2015)					
Event Type	Total Number of Events since 1/1/2007	Total Number of Events for October 2015	Loss Type	Date	Event Description
Environment	15	0			
Loss or Damage	25	4	Minor Damage Minor Damage Minor Damage Minor Damage	a) 10/12/15 b) 10/13/15 c) 10/17/15 d) 10/20/15	a) Airport Util - Excavator struck an overhead traffic signal while being moved. b) KHG - Crosswalk signal button knocked over by unknown vehicle. c) WOFH - A Kiewit employee backed into a crosswalk post knocking it over. d) KHG - Damaged a residents rock wall during replacement of an old box culvert.
*Reportable Occupational Injury/Illness	0	0			
Security	56	2	Theft Minor Damage / Injuries	a) 10/16/2015 b) 10/27/2015	a) Airport Util - Caterpillar skidsteer 289C stolen in lay down area off Nimitz. b) KHG - 3rd party citizen shot a BB gun into a Kiewit work zone on KHG. A truck was lightly damaged and an employee was struck, but suffered no injuries.
**Loss Time Occupational Injury/Illness	6	0			
Road/Vehicle - Driving	81	2	Minor Damage Minor Damage	a) 10/12/2015 b) 10/16/2015	a) KHG - Kiewit vehicle collided with a flatbed truck while merging. b) WOFH - A City bus struck a Kiewit Vac truck that was parked doing work.
Service Strike	65	3	Minor Damage Minor Damage Minor Damage	a) 10/9/2015 b) 10/13/2015 c) 10/22/2015	a) Airport Util - Unknown Verizon and Oceanic cables struck while excavating/ demoing other utilities. b) Airport Util - 2" conduit damaged during excavation install of 16" water line. c) Airport Util - Unmarked direct bury com line struck during excavation.
*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.					

HART S&S Certification "Open Items List" Last 4 Months Status						
"Open Items" - Design/Construction and Verification Issues						
Month - 2015	Total #	Total # Open	Total # Closed	% Closed Overall	# closed In Month	% Closed In Month
July	143	81	62	43%	48	33%
August	154	88	66	42%	4	3%
September	154	88	67	44%	1	1%
October	193	93	100	52%	33	17%

Note: Total #s are carried over from month to month

Key HART S&S Certification Documents			
<i>Update & Approval Status</i>			
S&S Project Plans, PHAs, Core Systems SSHA and O&SHA, and TVA			
Documents	Revision #	Date Approved	Comments
Safety and Security Management Plan (SSMP)	Rev 5	10/16/2015	SSMP signed on 10/16/2015
Safety and Security Certification Plan (SSCP)	Rev 4.B	Pending	Pending signatures
WOFH SSCP	Rev 0	10/22/2014	SSRC approved - No future updates: HART SSCP in affect
Construction Safety & Security Plan (CSSP)	Rev 2	10/16/2015	CSSP signed on 10/16/2015
Security Sensitive Information (SSI) Plan	Rev 0	7/22/2015	Pending signatures
Project Preliminary Hazard Analysis (PHAs)	Rev 2.A	Pending	Rev 2A – DRAFT annual update completed 9/3/2015
- MSF – Yard and Shop	Rev 2.A	-	3/30/2015 A – Presented to SSRC as IFO 8/26/2015
- Alignment	Rev 2.A	-	3/30/2015 A – Update completed – under internal review
- Tracks	Rev 2.A	-	3/30/2015 A – Update completed – under internal review
- Stations	Rev 2.A	-	6/22/2015 A – Update completed – under internal review
- Traction Power	Rev 2.A	-	Update on-hold - Pending approval of TES SSHA and O&SHA
- Train Control	Rev 2.A	-	Update on-hold - Pending approval of ATC related SSHA & O&SHA
- Vehicles	Rev 2.A	-	Update on-hold - Pending approval of PV related SSHA & O&SHA
- Communications	Rev 2.A	-	Update on-hold - Pending approval of Comms SSHA and O&SHA
Core Systems Contract (CSC) PHAs (DBOM)	Rev D	-	9/29/2015 – CSC R&R
- Technologies PHAs	Rev C	-	10/12/2015 – Undergoing HART review
- Central ATC O&SHA	Rev C	9/23/2015	SSRC approved
- Wayside ATC SSHA	Rev B	-	11/14/2014 – CSC Revise & Re-submit (R&R)
- Wayside ATC O&SHA	Rev D	9/23/2015	SSRC approved
- Wayside/ATC SHA	Rev C	-	1/6/2015 – CSC R&R
- SCADA O&SHA	Rev D	-	7/14/2015 – CSC R&R
- SCADA SSHA	Rev C	-	3/10/2015 – CSC R&R
- Vehicle Fire Hazard Analysis (FHA)	Rev B	-	8/28/2015 – CSC R&R
- Vehicle SSHA	Rev A	-	8/31/2015 – CSC R&R
- Vehicle O&SHA	Rev A	-	10/26/2015 – CSC R&R
- Vehicle/ATC SSHA	Rev E	-	10/22/2015 – Undergoing HART review
- Vehicle/ATC O&SHA	Rev E	-	10/22/2015 – Undergoing HART review
- TES SSHA	Rev B	-	10/15/2015 – Undergoing HART review
- TES O&SHA	Rev B	-	10/13/2015 – Undergoing HART review
- PSGS PHAs	Rev A	-	Under development
- PSGS O&SHA	Rev A	-	12/8/2014 – CSC R&R
- PSGS SSHA	Rev B	-	10/05/2015 – CSC R&R
- UPS O&SHA	Rev C	-	10/23/2015 – Undergoing HART review
- Communications SSHA	Rev A	-	8/14/2015 – CSC R&R
- Communications O&SHA	Rev A	-	8/14/2015 – CSC R&R
- FDAS SSHA	Rev B	-	10/19/2015 – Undergoing HART review
- FDAS O&SHA	Rev A	-	8/17/2015 – CSC R&R
- MOW Support Vehicles O&SHA	Rev A	-	Under development
Threat & Vulnerability Assessments (TVAs)			
- Project TVA	Rev 1	1/16/2015	On hold pending contract restructure & re-design

S & S Design Criteria Conformance Checklist (DCCC)						
Civil and Core Systems Contracts						
Verification Status						
Design Phase				Construction / Installation /Testing		
Contracts: FD, DB, DBOM	% Verified	+ / - % Change	Comments: Design SSRC Approval Date	% Verified	+ / - % Change	Comments: C/I/T SSRC Approval Date
Civil Contracts Under Construction						
FD-430, Airport Section 7-Piers	100%	N/A	6/17/2015	100%	N/A	8/26/2015
FD-430, Airport Utilities	100%	N/A	6/25/2014			
FD-340, H2R2 Ramps	100%	+4%	5/27/2015			
DB-200, MSF	96%	-3%	1/28/2015			
DB-120, WOFH Guideway - 38 total – Sub CEL/CIL Packages	99%	-	34 Sub - CELs/CILs SSRC approved	20%		
DB-320, KHG Guideway - 40 total – Sub CEL/CIL Packages	97%	-	33 - Sub CELs/CILs, SSRC approved			
FD-240, Farrington Hwy Station Group	99%	+6%	1- station- 6/17/2015			
FD-140, West Oahu Station Group	97%	+51%	2 stations ready for SSRC			
Yard Control Bungalow (YCB) Civil CSC	64%	-	Designer input underway			
MI-930, Elevators & Escalators	-	-	Base DCCC 8/26/15			
Civil Contracts Under Design or in Pre-bidding Status						
FD-340, Kamehameha Highway Station Grp	99%	-	3 Stations – 8/26/2015			
FD-530, City Center Utilities	-	-	On hold – re-designing			
AP00 Art-in-Transit, 23 artists/contracts	-	-	Base DCCC under review			
MI-900 Fare Collection System	-	-	Under Development			
DB-275, Pearl Highlands PS/BTC	-	-	Base DCCC under review			
FD-600, West O’ahu Park & Ride	-	-	Base DCCC under review			
DB-xxx, Traction Power Generator System	-	-	Base DCCC under review			
DB-xxx, Airport Guideway & Stations Grp	-	-	On hold re-designing			
DB-xxx, City Center Guideway & Stations Grp	-	-	On hold re-designing			
DBOM-920 Core Systems Contracts Under Procurement - Production - Manufacture - Installation						
DBOM-920, Core Systems						
- Passenger Vehicles (PV)	-	-	Designer input underway			
- Traction Electrification System (TES)	-	-	Designer input underway			
- MOW Vehicles	-	-	Base DCCC 9/23/2015			
DBOM-920 Core Systems Contracts Under Design						
DBOM-920, Core Systems						
- Traction Power Generator Back-up System	-	-	Base DCCC under review			
- Communication System	-	-	Designer input underway			
- Fire Detection Alarm System (FDAS)	-	-	Designer input underway			
- Train Control System (TCS)	-	-	Designer input underway			
- SCADA	-	-	Designer input underway			
- Platform Screen Gate System (PSGS)	-	-	Designer input underway			

S & S Construction Specification Conformance Checklists (CSCC)			
Civil - Contracts			
Verification Status			
Construction - Installation – Start-up & Testing Phases			
Contracts	% Verified	+ / - % Change	Comments
Civil Contracts Under Construction			
DBB-525, Airport Section, 7 - Drilled Shafts	100%	+2%	8/26/2015 SSRC approved –Certification Completed
DB-200, MSF	35%	+2%	Verification underway
DB-120, WOFH Guideway	37%	-	Verification underway
DB-320, KHG Guideway	4%	-	Verification underway
DBB-505, Airport Utilities - Construction	28%	+5%	Verification underway
DBB-385, H2R2 Ramps.net	-	-	Base CSCC approved, 5-27-2015
DBB-271, Farrington Hwy Station Group	-	-	Base CSCC approved 7/22/2015
DBB-171, West O’ahu Station Group	-	-	Draft Base CSCC updated 8/6/2015 under PM review
MI-930, Elevators & Escalators, WOSG	-	-	Base CSCC SSRC approved 8/26/2015
MI-930, Elevators & Escalators, FHSG	-	-	Base CSCC SSRC approved 8/26/2015
MI-930, Elevators & Escalators, KHSG	-	-	Base CSCC SSRC approved 8/26/2015
Civil Contracts Under Design or in Bidding - Pre-bidding Phases			
DBB-371, Kamehameha Hwy Stations Grp	-	-	Draft Base CSCC Updated 8/20/2015 under PM review
MI-930, Elevators & Escalators, AP/CC Stations	-	-	Base CSCC SSRC approved 8/26/2015
AP00 Art-in-Transit, 23 Artists/contracts	-	-	Draft Base CSCC under review
DBB-xxx, Dillingham Utilities & Road Widening	-	-	Draft Base CSCC in hand – on hold pending re-design
DB-275, Pearl Highlands PS/ Bus Transit Center	-	-	TBD
MI-900 Fare Collection System	-	-	Under Development
DBB-600, West O’ahu Park & Ride	-	-	TBD
DB-xxx, Airport Guideway & Stations Grp	-	-	On hold pending re-design
DB-xxx, City Center Guideway & D&K Stations Grp	-	-	On hold pending re-design

S & S Specification/Testing Conformance Checklists (STCC)			
<i>Core Systems - Contracts</i>			
Verification Status			
Procurement - Production - Manufacture - Installation - Start-up & Testing Phases			
Contracts	% Verified	+ / - % Change	Comments
DBOM-920 Core System Contracts under Procurement - Production - Manufacture - Installation - STCC			
Passenger Vehicles/Cars			
1) General Requirements – Applies to all PVs	-	-	Base STCC pending 12/09/2015 SSRC approval
2) Vehicle - Interim Cert – for Dynamic Testing	-	-	Base STCC pending 12/09/2015 SSRC approval
3) Train/4-PV Cert for Pre-revenue Service	-	-	Base STCC under development
Traction Electrification System (TES)			
1) General Requirements – Project Wide	-	-	Draft base STCC under review
2) MSF – Rail Yard	-	-	Draft base STCC under review
3) Functional Track – WOFH Guideway	-	-	Draft base STCC under review
4) WOFH and KHG Guideways	-	-	Draft base STCC under review
5) Airport and City Center Guideways	-	-	Draft base STCC under review
Yard Control Bungalow (YCB) Civil	-	-	Draft base STCC under review – verification underway
MOW Vehicles	-	-	Draft base STCC under review
DBOM-920 Core Systems Contracts Under Design- STCC			
- System Integration Testing (SIT)	-	-	Draft base STCC under review
- Traction Power Generators Back-up System	-	-	Draft base STCC under review
- Communication Systems	-	-	Base STCC under development
- Fire Detection Alarm System (FDAS)	-	-	Base STCC under development
- Train Control System (TCS)	-	-	Base STCC under development
- Supervisory Control & Data Acquisition (SCADA)	-	-	Base STCC under development
- Platform Screen Gate System (PSGS)	-	-	Base STCC under development
- Operational Readiness Conformance Checklists	-	-	Base ORCC pending 12/09/2015 SSRC approval

S & S Certification Certificates		
<i>Issued to Date and 12 Month Projection</i>		
Certification Certificates Issued	Date Signed	Comments
FD-430 & DBB-525 Airport Section 7-Piers Contracts & Certifiable Element "Guideway"	9/21/2015	None – No open Items
Projected Certification Certificates & Interim Certification next 12 Months	Projected Dates	Comments
1. YCB Civil Contract - Core Systems	January 2016	
2. MOW Vehicles - Interim Certification – Receiving and Storage Tracks	February 2016	2 - MOW vehicles
3. DBB-505 Airport Utilities - Construction	March 2016	
4. PV-001 Delivery - Interim Cert Certificate, MSF/PV/Track/MOW Vehicle/TES/IT	March 2016	
5. DB-200, MSF Contract & Certifiable Element - "Maintenance and Storage Facility"	May 2016	
6. DBB-385 H2R2 Contract	July 2016	
7. PV-001 Interim Certification to enter Dynamic Testing	September 2016	
8. Rail Yard Test Track # 1 – Interim Certification	September 2016	
9. Functional Track – Along WOFH Guideway – Interim Certification – Test Track # 2	October 2016	
10. PV-002 Interim Certification to enter Dynamic Testing	November 2016	

6.2 Quality Management

- **Overview**

- The HART QMP and HART-approved QAPs of contractors, consultants and suppliers have been assimilated by their respective employees and are being implemented as standard operating procedures. Therefore, less and less Nonconformance Reports (NCR) are reported or encountered.
- Overall quality of the Project is good.
- Review and approve contractors, consultants and suppliers new and updated QAPs including Inspection and Test Plans (ITP). Currently reviewing QAP of Nan, Inc. for the WOSG contract and QAP of Hawaiian Dredging for the FHSG contract.
- 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; NCRs; Corrective Actions (CARs) and Preventative Actions (PARs); quality compliance; various process improvements; quality economics, and Buy America compliance.
- Participated in Pre-Activity Meetings for scheduled construction activities: MSF (Flexible Asphalt Concrete Paving); WOFH (Traffic Signals Installation, Finishes [Drainage, Sound Wall Alignment, Stray Current Connections]); and CSC (MSF [Roof Planks, Mechanical/HVAC on YCB, and Communications Fiber Backbone Placement], Pre-Shipment and testing of: EMI/EMC and DVT, and UPS.
- Perform Management System Audits (QA, Environmental and Buy America); 2015 Combined Management System Audit Schedule as shown below:



HONOLULU AUTHORITY for RAPID TRANSPORTATION

COMBINED MANAGEMENT SYSTEM AUDIT SCHEDULE

YEAR: 2015 Rev 11

KEY	Local Audit	Remote Audit	Continental U.S. Audit	International Audit		
CONTRACT PACKAGE NUMBER	DESCRIPTION	CONTRACTOR / CONSULTANT / SUPPLIER	AUDIT NUMBER	DATE SCHEDULED	DATE PERFORMED	DATE CLOSED
CCH-100	Honolulu Authority for Rapid Transportation (HART)	HART	15-009 QA	12/01 - 12/08		
	Honolulu Authority for Rapid Transportation (HART) -Security & Safety Only		15-009 SS	12/01 - 12/08		
CT-HRT-10HO137	West Oahu/Farrington Highway Guideway Design-Build (WOFH)	KWC - HI	15-001 QA	2/17 - 2/19	2/17 - 2/18	4/17/15
CT-HRT-11HO195	Kamehameha Highway Guideway Design-Build (KHG)		15-001 BA	2/17 - 2/19	2/17 - 2/18	4/17/15
CH-HRT-10HO449	Maintenance and Storage Facility Design-Build (MSF)	KKJV - HI	15-003 QA	2/25 - 2/26	2/25 - 2/26	4/14/15
			15-003 BA	2/25 - 2/26	2/25 - 2/26	8/4/15
CT-HRT-10HO137	WOFH Public Information	KWC - HI	15-008	10/21 - 10/22	10/22 - 10/23	
CT-HRT-11HO195	KHG Public Information					
CT-HRT-10HO137	WOFH & KHG Casting Facility	KWC - HI	15-011	7/15-7/16	7/15 - 7/16	9/30/15
CT-HRT-11HO195						
CH-HRT-10HO449	WOFH Surveying, KHG and MSF Audit and Alignments	KWC/KKJV - HI	15-013	8/20- 8/21	8/20	9/1/15
CT-HRT-11HO195						
CT-HRT-10HO137						
CT-HRT-1200106	Core Systems Contract (CSC) & AB Design-Build-Operate-Maintain	ASTS Italy	TBD	2016		
		AB Italy	TBD	2016		
		AB USA	TBD	2016		



HONOLULU AUTHORITY for RAPID TRANSPORTATION

COMBINED MANAGEMENT SYSTEM AUDIT SCHEDULE

YEAR: 2015 Rev 11

KEY	Local Audit	Remote Audit	Continental U.S. Audit	International Audit		
CONTRACT PACKAGE NUMBER	DESCRIPTION	CONTRACTOR / CONSULTANT / SUPPLIER	AUDIT NUMBER	DATE SCHEDULED	DATE PERFORMED	DATE CLOSED
CT-HRT-1200106	Core Systems Contract (CSC)	AHJV - HI	15-010	7/06 - 7/07	7/6	7/14/15
	Configuration Management Plan (CMP)	AHJV - HI	16-017	11/5/2015		
SC-HRT-1200116	West O'ahu Station Group Final Design (WOSG)	AECOM - HI	15-005	3/18 - 3/19	3/18 - 3/19	5/18/15
SC-HRT-1200111	Kamehameha Highway Station Group Final Design (KHSG) PH, PR, AS	AVA - HI	15-002	6/3 - 6/04	6/3	6/8/15
		AVA - CA				
SC-HRT-1200111	H2R2 Final Design	AVA - HI	15-004	1/28	1/28	2/3/15
		AVA - CA				
SC-HRT-1400049	CSC Support Services	L + E	15-016	11/23 - 11/24		
DB	Pearl Highlands Parking Structure/Bus Transit Center Construction	TBD	TBD	2016		
CR-HRT-1500309	H2R2 Ramp Construction	Royal Contracting	TBD	2016		
CR-HRT-1500503	West Oahu Station Group Construction	NAN, Inc	TBD	2016		
CT-HRT-1500236	Farrington Hi-way Station Group Construction FHSG	Hawaiian Dredging	TBD	2016		
DB	Kamehameha Hi-way Station Group Construction	TBD	TBD	2016		
SC-HRT-14000323	Airport Section Utilities Construction	NAN, Inc	15-012	8/13 - 8/14	8/13 - 8/14	9/22/15



HONOLULU AUTHORITY for RAPID TRANSPORTATION

COMBINED MANAGEMENT SYSTEM AUDIT SCHEDULE

YEAR: **2015** Rev 11

KEY	Local Audit	Remote Audit	Continental U.S. Audit	International Audit		
CONTRACT PACKAGE NUMBER	DESCRIPTION	CONTRACTOR / CONSULTANT / SUPPLIER	AUDIT NUMBER	DATE SCHEDULED	DATE PERFORMED	DATE CLOSED
CT-HTR-1500080	Airport Section Guideway Seven Pier Construction	HDCC/CJA JV	15-006 QA	3/11	3/11 - 3/24	3/31/15
			15-006 BA	3/11	3/11 - 3/24	3/31/15
DB-	Airport Section Guideway and Stations	TBD	TBD	2016		
DB-	City Center Section Guideway and Stations	TBD	TBD	2016		
DB	UH West O'ahu Park-and-Ride and Ho'opili Station Finishes Construction	TBD	TBD	2016		
CT-HRT-1300318	Elevator and Escalator - Manufacture, Install and Maintain	US Schindler - HI	15-015	9/10 - 9/11	9/10	
		US Schindler - NJ				
SC-HRT-1400050	West Side Station Group CE&I	PGH Wong - HI	TBD	2016		
	West Oahu Farrington Highway and Kamehameha Highway Guideways CE&I		15-014	10/28 - 10/30	10/28 -10/29	
	MSF CE&I			10/28 - 10/30	10/28 -10/29	
	Elevator and Escalator - CE&I			10/28 - 10/30	10/28 -10/29	
	Pearl Highlands Parking Structure/Bus Transit Center CE&I		TBD	2016		
	UH West O'ahu Park-and-Ride and Ho'opili Station Finishes CE&I		TBD	2016		



HONOLULU AUTHORITY for RAPID TRANSPORTATION

COMBINED MANAGEMENT SYSTEM AUDIT SCHEDULE

YEAR: 2015 Rev 11

KEY	Local Audit	Remote Audit	Continental U.S. Audit	International Audit		
CONTRACT PACKAGE NUMBER	DESCRIPTION	CONTRACTOR / CONSULTANT / SUPPLIER	AUDIT NUMBER	DATE SCHEDULED	DATE PERFORMED	DATE CLOSED
SC-HRT-1600008	Airport Section Guideway & Stations CE&I	Stantec	TBD	2016		
	City Center Section Guideway & Stations CE&I		TBD	2016		
SC-HRT-1400027	General Engineering Consultant Final Design and Construction (GEC 3)	CH2M Hill	15-007	5/20 - 5/21	5/20 -5/21	7/14/15

• Key Issues

HART NCR Log		
Total NCRs Issued To Date	CLOSED	OPEN
33 (Audits)	33	0
1 (Construction)	1	0

- Continue updating, reviewing and approval of appropriate HART Project Baseline Plans and Procedures due to new policies, re-organization, process improvement and lessons learned from the internal audits. Upon approval of revised plans and procedures, training of HART employees must be performed in order to assure competency and proficiency.
- Resolution of two (2) major NCRs on the DB Contracts (WOFH and KHG) that need to be addressed and corrected to prevent recurrence and to mitigate impact on the overall progress of the project. The following are the major NCRs identified on the DB Contracts:
 - **Drilled Shafts:** To date, there are 5 Open NCRs (closed 10) on WOFH and 18 NCRs (opened five) on KHG, which are related to CSL Reports. To date, there are 297 (added five) and 83 (added 14) drilled shafts completed as of this reporting period on WOFH and KHG, respectively. The contract requires that deep foundation elements (drilled shafts) integrity must be tested in accordance with ASTM D6760-14 Standard Test Method for Integrity Testing of Deep Foundations by Ultrasonic Crosshole Testing, and HART will determine the final acceptance of each shaft based on the Crosshole Sonic Log (CSL) report, which includes: test result, drilled shaft installation information, and analysis for the tested shaft. The evaluation of testing results will be based on the percentage decrease in velocity as correlated to the Concrete Condition Rating Criteria detailed in specification Section 31 63 30 G. If the test results do not meet the allowable requirements, a minimum 2-3-inch diameter cores per shaft will be performed by KIWC to intercept the suspected or defective zones. The disposition and corrective actions will be agreed with KIWC EOR and HART. Closing of NCRs related to the drilled shafts is a prerequisite for the construction of transition zones and the columns.
 - **Span 17 – NCR 00314:** The procedure for lowering a heavier and wider span was not followed during the setting of the span to the columns. The result of the error was cracked segments 17-1, 17-2, 17-11 and 17-12. KIWC has evaluated the damages, disposition and the proposed corrective actions. KIWC has submitted a Remediation Plan to HART, which was approved by HART (CE&I, Design and Construction Department, and GEC-3). Therefore, the disposition on the NCR is Repair. KIWC started the repair of the cracked segments. Repair completion of Span 17 is not in the critical path.
- Timely closeout of contractors, consultants and suppliers open NCRs.
- QA Audit of AHJV on the Core System Configuration Management Plan on Nov. 5, 2015.
- QA Audit of L+E (CSOC) on the Core System contract on Nov. 23-24, 2015.
- Erection and finishing of spans (12-segments) and construction of “shear keys” between columns and spans on WOFH guideway.
- Resolution of two (2) major NCRs: cracked segments 1, 2, 11 and 12 of Span 17 repair, and Drilled Shafts (Crosshole Sonic Logging Reports) quality and repairs.
- Construction of MSF Yard Ballasted Track: Alignment, Profile, Geometry, Sub-ballast, Drainage, Ballast, Grade Crossings, Welding, Stress Relieving, Concrete Ties, Contact Rails, Switches, etc.
- Installation and welding of rails and turnouts on top of the WOFH guideway.
- Construction of WOFH and KHG Balanced Cantilever Segmental Spans.
- Manufacturing of Carbody(s) at Ansaldo Breda and its subcontractor manufacturing facilities in Italy.
- Final Assembly of Passenger Vehicles in Ansaldo Breda, Inc. facilities in Pittsburg, CA.
- Pre-shipment, I&T and FAI of wayside core system and passenger vehicles materials, parts and components.

6.3 Buy America Compliance (49 CFR 661 and 49 CFR 663)

- **Look Ahead**
 - Will provide updates on any new construction agreements HART enters into with a utility company.
 - Cargo Preference: Will provide updates and written assurances from AHJV that it will satisfy the Cargo Preference requirements set forth in the contract; AHJV will use privately-owned United States Flag commercial vessels to ship equipment, material or commodities for the Project.
 - Will provide updates on analysis regarding the VRF issue.

6.4 Disadvantaged Business Enterprise (DBE)

- **Activities this month**
 - \$28,555,856 = total dollar participation for all DBEs on all HART contracts from 9/24/07 to 10/31/15
 - 6.33% = DBE utilization on total disbursed FTA funds received to date (\$28,555,856 divided by \$451,009,679)
 - 1.62% = DBE utilization to date on total Project FTA funds (\$28,555,856 divided by \$1,763,903,901)

*Total DBE Participation = \$28.6M
(previous report = \$27.9M)*

Figure 16. DBE Participation this Month

DBE Participation in October		
DBE Firm	Contract Number	Participation
Lawson & Associates	SC-HRT-1400061 MM-964	\$57,521
ADS System Safety Consulting	SC-HRT-1400061 MM-964	\$88,599
Anil Verma Associates, Inc.	SC-HRT-1200111 FD-340	\$316,866
AMR Estimating Services	SC-HRT-1400027 MM-913	\$39,967
The Solis Group	SC-HRT-1400027 MM-913	\$176,631
TOTAL FOR THE MONTH		\$679,584

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

6.5 Planning and Environment

- **Activities this month**
 - Programmatic Agreement Activities:
 - HART’s Programmatic Agreement (PA) team met with Hawai’i State Historic Preservation Division (SHPD) on Tuesday, Oct. 6, 2015, as part of ongoing consultation with the division.
 - The Kāko’o II contract was awarded to Honua Consulting on Oct. 21, 2015.
 - Planning, Environmental, and Cultural Activities:
 - HART is awaiting FTA review of the Project’s voluntary Cultural Monitoring Plan.
 - HART continues to assist the Oahu Metropolitan Planning Organization (OMPO) in updating the regional long-range travel demand forecasting model.
 - HART completed the implementation of permanent protective measures for all burials identified during AIS, on Oct. 12, 2015. This finalizes procedures and methods described in HART’s Burial Treatment Plan.
 - HART submitted drafts of the City Center AIS Alignment, Emergency Backup Generators, and Chinatown Station-Holau Market Post-ROD Documentation to FTA.
 - HART attended the Halawa Makai planners’ advisory committee and TOD community meeting on Oct. 13 and 14, 2015.
 - HART participated in local training workshops conducted by SHPD and the Advisory Council on Historic Preservation (ACHP) on Oct. 20 and 21, 2015.

- Sustainability:
 - HART sent an informational memo to FTA regarding HART's mitigation of fossil fuel use through photovoltaic power.
 - HART attended and provided public outreach at the Build + Buy Green Conference on Oct. 21, 2015.
 - HART provided public outreach at the Hawaii Pacific University Sustainability Fair.
 - HART participated in the State Sustainability Transportation Task Force.
- **Looking Ahead**
 - Ongoing coordination with DTS to ensure consistent planning of seamless bus and rail services focusing on rail's interim opening date.
 - HART's next consultation with the O'ahu Island Burial Council (OIBC) is scheduled for Wednesday, Nov. 11, 2015.
 - Conduct regular monthly HART/SHPD consultation meetings.
 - Attend monthly scheduled Kāko'o Meetings with Programmatic Agreement Signatory and Consulting Parties.
 - Continue coordination with DPP, the State and HCDA regarding transit-oriented development.
 - Continue development of HART's sustainability program.
 - Continue development of the photovoltaic RFP.

6.6 Risk Management

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. Effective management of project risks is necessary to significantly increase the likelihood of delivering a successful project. Risk management is the systematic process of identifying, analyzing, and responding to risk in a timely manner. Risk management is integral to all phases leading up to revenue service opening including: planning, design, construction, systems testing, system operation start up, safety and security certification, and ultimately to project construction closeout. 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.

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" rather than the maximum or the minimum impact. 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 project wide risks which is an aggregate of the individual contract risks. Key metrics for probability of occurrence and cost and schedule impacts are subject to change as more is learned about the risks. At the same time, HART is implementing mitigation of avoidance, transfer, and acceptance/minimization.

NOTES OF SIGNIFICANCE

- Additional focus is being placed on Hawaiian Electric Co. coordination and issue resolution.
- Discussions of project schedule and estimated costs at completion are being evaluated to provide the most accurate information possible.
- Risk refresh will be scheduled when the PMOC and HART are in agreement that budget and schedule approach are in alignment. This process will be used to identify and recommend appropriate contingency and schedule float for the revised Revenue Service Date.

ADDITIONAL BACKGROUND

The narrative below provides additional background on the mitigation actions being taken to control and contain cost and schedule impacts to the Project. Provided below are the risk category and specific actions being taken. Dates are tracked separately. Based on the effectiveness of the mitigation efforts, more actions may be required to further contain cost and schedule impacts in future months. The major risks covered this month are: A) Market Conditions, B) Utilities, and C) Right-of-Way.

A) Market Conditions – The construction market in Hawai'i is similar to the conditions experienced in 2005-07. The year 2015 is expected to set a new record for construction in the state. This translates to increased escalation of about 1% per month for late 2014 and through 2016, according to the Rider Levett Bucknall, Quarterly Construction Cost Report. The escalation in each of the first two quarters of 2015 was over 3%. These conditions may impact the supply of experienced craft labor which will in turn affect contractor productivity rates and traffic mobility issues.

Mitigation Plan:

- Refine list of primary and secondary mitigation measures.
 - **Finalize recommendations for primary and secondary mitigation measures and submit to Project Director for Action based on an approved Revised Financial Plan.**
- Identify opportunities within project scope for alternative funding sources.
 - **Reach agreement on possible HDOT betterment projects to funding of utility, widening, ITS and Intersection Improvements.**
 - **Research State Law relative to Public Private Partnership funding relative to TOD and parking opportunities. Pursue alternative funding for the Pearl Highlands Parking Structure.**
- Seek additional GET extension of funding to close the gap for market conditions and delay beyond HART's control. **Actions: The GET extension to cover capital cost overruns due to court and procurement protest delays has made it through the Legislature and Governor's approvals. All that remains is City Council approval.**
 - **Work with Board, City/County Honolulu and respond to frequently asked questions as needed. – Ongoing.**

B) Utilities – Utilities continue to be an issue for the project. Mitigation Plan:

- Resources to relocate HECO facilities are not readily available to resolve utility conflicts. HART is subject to availability of resources and schedules are frequently set for relocation contractors to be deployed on other islands. This has had an impact on cost and schedule. **Actions:**
 - **Seek commitment from HECO (senior, mid and front line management) to dedicate adequate resources for relocation work, design work to ensure opening. Executives agree to continue meeting weekly to coordinate efforts.**
 - **Revise Utility Agreements accordingly to respond to revised dates for service connections, utility/rail conflict resolution and resolution of overhead clearance requirements.**
- Site specific solutions with respect to the 138kV, 46kV and 12kV vertical and horizontal clearance need to be agreed upon by Hawaiian Electric and HART. Affected contracts are KHG, Airport Guideway and City Center Guideway. **Action:**
 - **HART to define and evaluate relocation options due to horizontal and vertical clearance requirements and seek HECO input on relocation options. Options include relocate to a new corridor, attach to the guideway or underground. HART to make recommendation to Executive Management for discussions with HECO.**

C) Right-of-Way – There are parcels on the east and west segments that are still under active procurement. Lack of access by the contractor has been partially mitigated through re-sequencing the work on the west. The goal is to provide site access to the contractors on the east to avoid associated inefficiencies related to re-sequencing the work plan which would have a negative impact to the revenue service date.

Mitigation Plan:

- West property transactions have been elevated. **Action:**
 - **Determine the level of resources required to address remaining utility easement transactions.**
- East Side – there are a number of third-party agreements needed on the Airport Section and private parcels on the City Center Section. The revised Delivery and Procurement Plan takes into account the Right-of-Way Acquisition Plan. Cost to Cure property contacts will take time to work through with owners and tenants for the 16-22 parcels. **Action:**
 - **Implement property acquisition plan. Develop risk mitigation plan should there be parcels that are not likely to be secured, with information available to other Departments in advance.**

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

Figure 17. Risk Matrix

RISK MATRIX					
Legend	Low (1)	Med (2)	High (3)	Very High (4)	Significant (5)
Probability	< 10%	10><50%	50><75%	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 18. Top Project Risks

Top Risks October 2015								
Current Risk ID	Contract Package	Risk Description	Probability	Prob Rating	Cost Impact	Time Impact	Oct '15 Risk Rating	Sept '15 Risk Rating
111.19	Airport Guideway and Stations	Estimates for remaining guideway contracts may be low compared to current market conditions.	90%	5	5	4	22.5	22.5
111.06	City Center Guideway	Cost estimates for remaining guideway contracts may be low due to adjustments using pricing from WOFH Bid.	90%	5	5	4	22.5	22.5
6.06	City Center Guideway	Insufficient utility company resources available to resolve conflicts and meet the design, approvals, and/or construction schedule. (Dillingham bottleneck)	75%	4	4	5	18	18
34.06	City Center Guideway	Traffic disruptions may result in revised constraints imposed by City or HDOT due to pressure from Third Parties and elected officials.	75%	4	5	4	18	18
36.06	City Center Guideway	Cost exposure from unexpected utility clearance issues. (Ex. HECO 138kV Line undergrounding, delay in resources).	75%	4	5	4	18	18
110.06	City Center Guideway	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
6.04	Kamehameha Highway Guideway	Insufficient utility company resources available to meet the design, approvals, and/or construction schedule.	75%	4	5	4	18	18
68.14	Dillingham Kaka'ako Stations	Downtown Station planned to be integrated into Pacific Guardian Center; agreement with owner yet to be proposed. PGC demands could extend negotiations and delay construction or increase construction costs.	75%	4	5	3	16	16
37.06	City Center Guideway	Additional utility easements may be required for private utility companies.	50%	3	5	5	15	15
34.19	Airport Guideway and Stations	Traffic disruptions may result in revised constraints imposed by City or HDOT due to pressure from Third Parties and elected officials.	75%	4	4	3	14	14
83.06	City Center Guideway	Delay of utility easement identification for City Center Guideways may result in a delay of ROW acquisition and ultimately the start of construction.	75%	4	4	3	14	14
34.04	Kamehameha Highway Guideway	Traffic disruptions may result in revised constraints imposed by City or HDOT due to pressure from Third Parties and elected officials.	75%	4	4	3	14	14
16.03	West Oahu/Farrington Highway Guideway	Permits and approvals by other agencies may not be provided in a timely manner and delay the project.	75%	4	4	3	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 also in the process of being mitigated.

Figure 19. Risks Added

Risks Added in October 2015							
Risk ID	Contract Package	Risk Description	Probability	Prob Rating	Cost Impact	Time Impact	Risk Rating
189.19	Airport Guideway and Stations	Third party reviews could cause delay to DB Contractor and could add cost through betterment.	25%	2	5	2	7
191.15	Airport Utilities	Permit issuance for 404/401 and noise are at risk due to overall agency contractor performance.	25%	2	3	2	5
190.15	Airport Utilities	Utility contractor could delay downstream construction activities.	25%	2	2	2	4
57.15	Airport Utilities	Roadway surface conditions are required to meet a certain state of repair at the end of the job.	25%	2	2	2	4
189.10	FHSG	Third Party reviews could cause delay.	75%	3	3	3	9
190.11	WOSG	Low bid was well under the second low bidder.	25%	2	5	2	7

Figure 20. Risks Deleted

Risks Deleted in October 2015					
Current Risk ID	Contract Package	Risk Description	Comments	Risk Rating	
				Oct. '15	Sep. '15
6.13	Airport Station Group	Utilities - Insufficient utility company resources available to meet the design, approvals, and/or construction schedule.	Duplication due to combining Airport Guideway and Stations. Remains as a risk.	14	5
34.13	Airport Station Group	Traffic - Traffic disruptions may result in revised constraints imposed by City or HDOT.	Duplication due to combining Airport Guideway and Stations. Remains as a risk.	12	4
2.13	Airport Station Group	Environmental - Discovery of unanticipated archeological findings could result in construction delay and/or design modification to relocate columns and foundations.	Duplication due to combining Airport Guideway and Stations. Remains as a risk.	1	3.5
65.06	City Center Guideway	Utilities - The relocation of the 138 kv overhead power lines may require new lines erected to provide redundancy during the 'outage.' [Temporary diversion of the 138kv line may be required if grid capacity is insufficient.]	Duplication of another risk item.	18	10.5
47.08	Core Systems Contract	Utilities - Electrical and power demands by the system may result in HECO requiring additional capital improvements to meet the demand, which may increase capital costs.	HECO resolved issue of demand and are proceeding.	0	4
34.14	Dillingham Kaka'ako Stations	Traffic - Traffic disruptions may result in revised constraints imposed by City or HDOT.	Duplication with item on City Center.	12	4
145.14	Dillingham Kaka'ako Stations	Procurement - Delays associated with procurement process may impact schedule and/or price.	Duplication with item on City Center.	9	4
6.14	Dillingham Kaka'ako Stations	Utilities - Insufficient utility company resources available to meet the design, approvals, and/or construction schedule.	Duplication with item on City Center.	5	6
146.14	Dillingham Kaka'ako Stations	Utilities - HECO and other utility service hook up requests have not been processed according to utility company procedures causing potential delay.	Duplication with item on City Center.	3	5
2.14	Dillingham Kaka'ako Stations	Environmental - Discovery of unanticipated archeological findings could result in construction delay and/or design modification to relocate columns and foundations.	Duplication with item on City Center.	1	3.5
11.1	FHSG	Utilities - Agreements with all utility owners are not yet in place, and subsequent agreements may expose the City to unforeseen costs and schedule impacts.	Work is complete.	0	4
11.11	WOSG	Utilities - Agreements with all utility owners are not yet in place, and subsequent agreements may expose the City to unforeseen costs and schedule impacts.	Work is complete.	0	4

6.7 Community Outreach

• **Activities this month**

- HART’s public outreach included presentations to business organizations, connecting with the community at major events, and presentations to several neighborhood boards.

• **Construction Outreach**

- HART provided the community with updated information regarding construction work and the Shop & Dine on the Line program at several community events, including the Food & New Products Show, which typically draws more than 30,000 attendees over a three-day period.
- Canvassing along the alignment continued and HART partnered with contractor Kiewit on two Business Alliance meetings, one in Pearl City and another in Waipahu. HART’s Business Alliance partnership, which includes more than 400 businesses in the construction corridor, provides tailored construction briefings, free business development workshops, and regular contact with HART to jointly develop additional programs to assist local businesses during construction.
- HART sponsored a media tour, which provided the public with a look at the progress at the project’s Rail Operations Center adjacent to Leeward Community College. The tour allowed media to ask questions and to learn about how the trains will be tested, operated and maintained.

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

- *1,892 presentations and events*
- *1,025 Neighborhood Board meetings*

Figure 21. HART sponsored a media tour of the 43-acre Rail Operations Center to discuss progress at the site.



HART Executive Director and CEO Dan Grabauskas was joined by Honolulu Mayor Kirk Caldwell and members of the media on a tour of the project’s Rail Operations Center. The site is now about 80 percent complete and the first rail cars are expected to arrive there next spring.

• **Community Input**

- HART’s public information team responded to about 100 inquiries and requests in October that came in via the agency’s website, email and 24-hour hotline. Inquiries this month primarily focused on traffic, construction activities, and requests for information regarding HART’s Shop & Dine on the Line program.

Figure 22. HART’s outreach team participated in more than two dozen community events, workshops and meetings, including the Food & New Products Show.



HART’s public outreach team connected with the community, answering questions and providing updated project information at the Food & New Products Show this month. Attendees watched a video showing the route of the future rail system.

• **Look Ahead**

Coming in November:

- HART and its contractor hold two monthly business and community meetings along the corridor.
- HART continues its Business Outreach program, and expands its Shop & Dine on the Line program to assist businesses along the rail route during construction.

6.8 Staffing

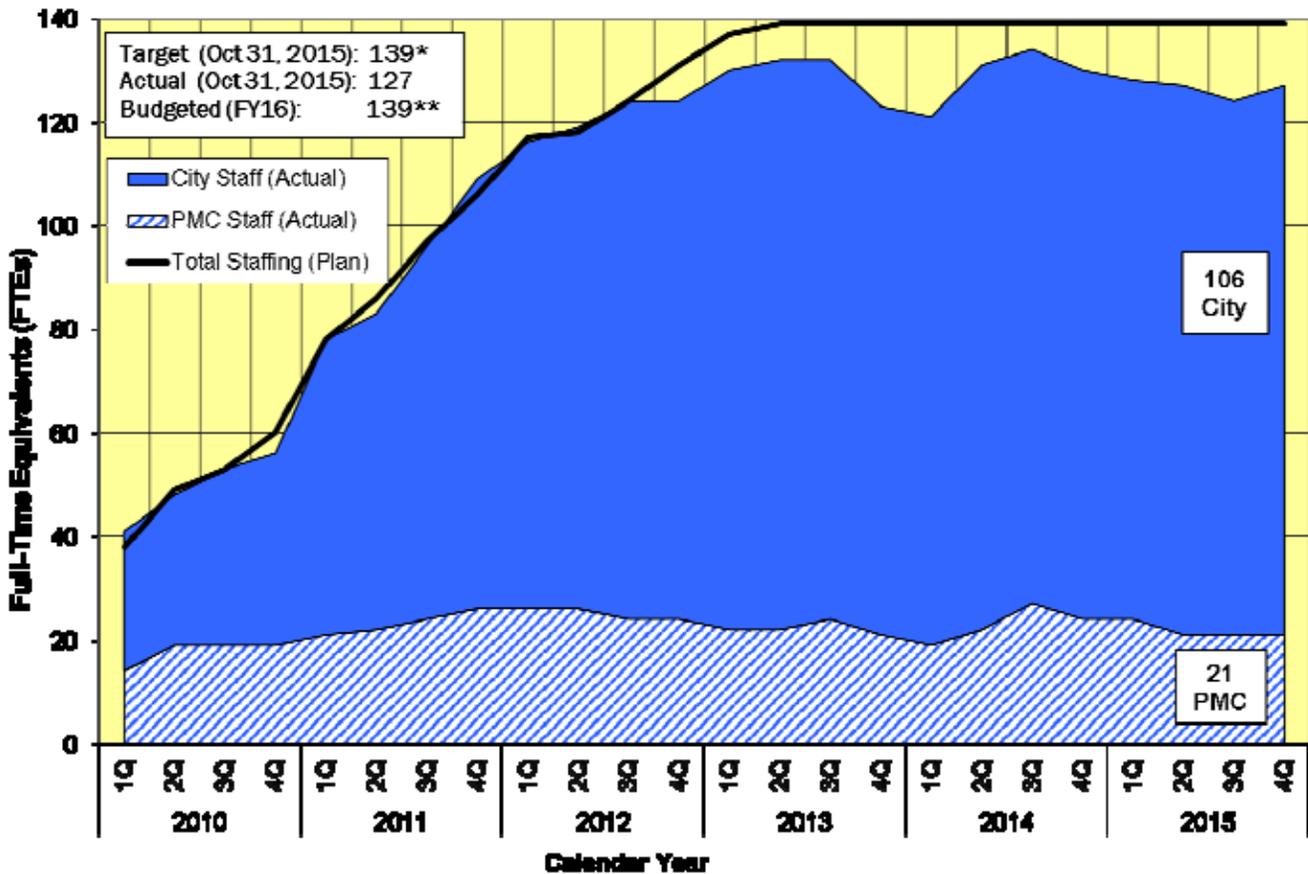
Figure 23. Staffing Activities

Staffing Activities				
Title	Group	New/Existing HART position (City or PMC)	Position Status	Start Month
System Safety & Security				
Safety Specialist	System Safety & Security	Existing (City)	Recruiting	
Design and Construction				
West Area Construction Manager	Construction	New (City)	Creating Position	
Project Manager (KHSG/H2R2 Ramp)	Construction	New (City)	Recruiting	
Project Manager (City Center DB)	Construction	New (City)	Recruiting	
Assistant Project Manager (City Center DB)	Construction	New (City)	Creating Position	
Electrical Engineer	Core Systems	Existing (City)	Filled	Nov
Budget and Finance				
Accountant II	Budget and Finance	Existing (City)	Filled	Oct
Planning, Permits & Right-of-Way				
Director of Planning, Permits & ROW	Planning, Permits & ROW	Existing (City)	Selected/Processing	Nov/Dec
Planner III* (Environmental)	Planning	Existing (City)	Recruiting	
Operations and Maintenance				
Director of Operations & Maintenance	Operations & Maintenance	Existing (PMC)	Recruiting/Interviewing	
Quality Assurance				
Quality Assurance Engineer * (Civil)	Quality Assurance	Existing (City)	Recruiting	
Administrative Services				
Personnel Clerk	Administrative Services	New (City)	Recruiting via Civil Service	
Public Information				
Information Specialist II	Public Information	Existing (City)	Recruiting/Interviewing	
Information Specialist II	Public Information	Existing (City)	Tentative Selection	Nov
Project Controls				
Lead Scheduler	Project Controls	Existing (City)	Filled	Oct
Scheduler	Project Controls	Existing (City)	Recruiting	

*Actual hiring level will be commensurate with candidate’s 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. HART is currently working with the Department of Facility Maintenance (DFM) on creating a Memorandum of Understanding (MOU).

Figure 24. Project Staffing (Actual vs. Planned)



* In accordance with Staffing and Succession Plan Rev II (Under Revision)
 ** 139 City positions authorized in FY 2016 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 H.

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	Resolve HECO issue with Davis-Bacon requirements	HART/FTA	Mar-14	On-going		Open – HECO waiver is pending. HART provided MOU to PMOC.
2	Updates resulting from Risk Refresh:					
2a	Update the Contract Packaging Plan	HART	Aug-14	Dec-15		In progress – Draft provided to PMOC but changes may be incorporated on updated estimate and schedule.
2b	Re-baseline Financial Plan	HART	Apr-14	TBD		Pending final update of budget and schedule.
2c	Re-baseline budget	HART	Apr-14	Dec-15		In progress
2d	Re-baseline MPS	HART	Apr-14	TBD		In progress
2f	Update RCMP (including Hold Points and Secondary Mitigation Measures)	HART	Sept-13	TBD		In progress – PMOC provided review comments on early draft, but updated draft will be prepared to reflect revised budget and schedule.
3	Provide OP 54 (Readiness for Revenue Operations) checklist/roadmap	FTA/PMOC	Apr-15	Nov-15		OP 54 provided to HART; PMOC to provide sample report.
4	Hold conference call to discuss use of P3 for Pearl Highlands Parking Structure	FTA/HART	Aug-15	Nov-15		
5	Provide list of HART procedures that are to be updated	HART	Aug-15	Nov-15		
6	Provide EAC in SCC format	HART	Aug-15	Nov-15		
7	HART to provide target date for Federal Courthouse resolution/sign-off	HART	Sep-15	Nov-15		
8	HART to provide Ship America letter	HART	Oct-15	Oct-15	Oct-15	Completed
9	HART to provide Final Buy America Interim Audit	HART	Oct-15	Oct-15	Oct-15	Completed
10	HART to provide CSC System Performance Analysis	HART	Oct-15	Oct-15	Oct-15	Completed
11	HART to provide NCR for shim tolerances	HART	Oct-15	Nov. 4, 2015		Open
12	Provide Addendum for City Center Guideway and Stations DB contract.	HART	Oct-15	Nov. 4, 2015		Open

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 = \$492.8M

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 cost containment strategies and changes being considered for each contract. Changes are tracked by three 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), Contract Packaging Plan (CPP), Master Project Schedule (MPS), Project Budget and Financial Plan updates are all in progress. The RCMP includes updates to the 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 applied to work packages established under the FFGA. Based on the level of risk, 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, this line item has been debited to zero as all changes contemplated to draw-down against “known” contingency has been executed.

HART Project Contingency Drawdown with Details

Date as of 10/22/15

#	Project No.	Project Desc.	Budget Transfer/Change Description	Contingency Drawdown Bal	Contingency Code
July '12 (Bottoms-Up Estimate)					
1)	FD-340	Farrington Highway Stations Group FD	Budget transfer of Bottoms-Up Estimate from Project Scope to Contingency (contract allowance)	\$643.6	0100 - Contract Allowance
2)	06-100	Airport Stations Outrigger PD	Budget transfer for Contract Award for ASO/FD Contract Budget		0102 - Allocated Contingency
3)	06-103	LEHD Construction Services	Budget transfer for Contract Award above the LEHD contract - Services contract budget		0102 - Allocated Contingency
4)	06-104	Waikanae Highway Outrigger PD	Budget transfer for Contract Award above the LEHD contract budget		0102 - Allocated Contingency
5)	06-108	West Oahu Farrington Highway Outrigger DB	Budget transfer for the LEHD per executed CO No. 004		0102 - Allocated Contingency
			July '12 Contingency Drawdown	\$5,851,273	
August '12					
			July '12 - Ending Contingency Balance	\$649.4	
1)	FD-140	West Oahu Stations Outrigger PD	Budget transfer for Contract Awarded under WOSOFD contract budget		0102 - Allocated Contingency
2)	FD-240	City Center Outrigger Outrigger PD	Budget transfer for Contract Awarded under COOU FD contract budget		0102 - Allocated Contingency
3)	06-120	West Oahu Farrington Highway Outrigger DB	Executed Change Order No. 11 - Procure and Install Portable Buildings	\$5,817,945	0102 - Allocated Contingency
			August '12 Contingency Drawdown	\$2,099,142	
			August '12 - Ending Contingency Balance	\$654.5	
September '12					
			September '12 Contingency Drawdown	\$0	
			September '12 - Ending Contingency Balance	\$654.5	
October '12					
1)	06-120	West Oahu Farrington Highway Outrigger DB	Executed Change Order No. 21 - Builders Risk Insurance Coverage	\$58,689.00	0102 - Allocated Contingency
			October '12 Contingency Drawdown	\$66,689.00	
			October '12 - Ending Contingency Balance	\$654.4	
November '12					
1)	FD-140	Airport Stations Outrigger PD	Budget transfer for Contract Award under ASO/FD the contract budget		0103 - Contract Allowance
2)	FD-240	Waikanae Highway Stations Group FD	Budget transfer for Contract Award under ASO/FD the contract budget		0103 - Contract Allowance
3)	06-205	General Engineering Consultant	Budget transfer to align contract budget with committed value	\$399,823	0102 - Allocated Contingency
			November '12 Contingency Drawdown	\$654.7	
			November '12 - Ending Contingency Balance	\$654.7	
December '12					
1)	FD-140	Airport Stations Outrigger PD	Executed Contract Amendment No. 01 - Design & Engineering cost estimates	\$316,000.00	0102 - Allocated Contingency
			December '12 Contingency Drawdown	\$316,000.00	
			December '12 - Ending Contingency Balance	\$654.4	
January '13					
1)	06-200	Waikanae Highway Outrigger DB	Executed Change Order No. 01 - Access Rd alternative analysis	\$15,981.00	0102 - Allocated Contingency
			January '13 Contingency Drawdown	\$15,981.00	
			January '13 - Ending Contingency Balance	\$654.4	
February '13					
1)	06-120	West Oahu Farrington Highway Outrigger DB	Executed Change Order No. 26 - Ins. LEHD Subcontractor ASO/FD at 1% Meaker FD	\$1,809,160.00	0102 - Allocated Contingency
			February '13 Contingency Drawdown	\$1,809,160.00	
			February '13 - Ending Contingency Balance	\$652.8	
March '13					
1)	FD-340	Farrington Highway Stations Group FD	Executed Contract Amendment No. 03 - Waikanae Station scope	\$13,000.00	0103 - Contract Allowance
2)	06-200	Maintenance & Storage Facility DB	Executed Change Order No. 00 - Ins. LEHD Subcontractor per cost/schedule adjustments	\$1,400,000.00	0102 - Allocated Contingency
			March '13 Contingency Drawdown	\$1,413,000.00	
			March '13 - Ending Balance	\$652.3	
April '13					
1)	FD-140	West Oahu Stations Outrigger PD	Executed Contract Amendment No. 01 - Second Round provision	\$11,012.00	0103 - Contract Allowance
2)	06-120	West Oahu Farrington Highway Outrigger DB	Budget transfer to effect Ins. LEHD Subcontractor for Change Order No. 26	\$1,870,178	0102 - Allocated Contingency
3)	06-200	Maintenance & Storage Facility DB	Budget transfer to effect Ins. LEHD Subcontractor for Change Order No. 06	\$434,000.00	0102 - Allocated Contingency
4)	06-200	Waikanae Highway Outrigger DB	Budget transfer to align current budget to contract schedule of milestones	\$600	0102 - Allocated Contingency
			April '13 Contingency Drawdown	\$2,000,768	
			April '13 - Ending Contingency Balance	\$654.3	
May '13					
			May '13 Contingency Drawdown	\$0	
			May '13 - Ending Contingency Balance	\$654.3	
June '13					
			June '13 Contingency Drawdown	\$0	
			June '13 - Ending Contingency Balance	\$654.3	

HART Project Contingency Drawdown with Details

Date as of 10/22/15

Project No.	Project Description	Project Description	Contingency Drawdown (\$)	Contingency Credit
July '13				
FO-430	Airport Section Guideway Utilities FID	Executed Contract Amendment No. 04 - Architectural Inventory Survey (AIS) Provisional Sum Part 2	\$654.3	
GS-200	Maintenance & Storage Facility DB	Executed Change Order No. 01 - Archaeological Inventory Survey (AIS) Provisional Sum Part 2		
GS-200	Maintenance & Storage Facility DB	Executed Change Order No. 01 - Maintenance & Storage Facility Yard and Switch Matrices		
GS-200	Maintenance & Storage Facility DB	Executed Change Order No. 01 - Yard Layout Revision		
GS-200	Maintenance & Storage Facility DB	Executed Change Order No. 10 - Train Configuration		
GS-200	Maintenance & Storage Facility DB	Executed Change Order No. 11 - Preliminary Design & Supplemental Project Mgt		
		July '13 Contingency Drawdown	18,354,306	
August '13				
GS-130	West Oahu Fanning Highway Guideway DB	Executed Change Order No. 30 - Archaeological Inventory Survey (AIS) Provisional Part 2	\$649.1	
GS-130	West Oahu Fanning Highway Guideway DB	Executed Change Order No. 32 - Kaha Channel Station Mass Concept		
GS-130	West Oahu Fanning Highway Guideway DB	Executed Change Order No. 34 - Transitional Layout Property Construction Final Suspension		
GS-130	West Oahu Fanning Highway Guideway DB	Executed Change Order No. 34 - HUCB Station Retention Change		
GS-130	West Oahu Fanning Highway Guideway DB	Executed Change Order No. 08 - Archaeological Inventory Survey (AIS) Provisional Part 2		
GS-140	West Oahu Stations Group FID	Executed Contract Amendment No. 00 - Shopper Services		
MT-200	Excavator & Escalator Installation	Budget Transfer for Contract Award under EDE DM contract budget		
		August '13 Contingency Drawdown	18,159,953	
September '13				
GS-130	West Oahu Fanning Highway Guideway DB	Executed Change Order No. 10 - MTP 2 Delay/Design Delay from Core Systems Contract & West Oahu Fanning Highway DB Contract	\$643.2	
GS-130	West Oahu Fanning Highway Guideway DB	Executed Change Order No. 35 - Acoustic Column Design Contract		
GS-200	Maintenance & Storage Facility DB	Executed Change Order No. 12 - HRTB Design Escalator		
FO-240	Fanning Highway Stations Group FID	Executed Contract Amendment No. 10 - MTP 2 Delay/Design Delay from Core Systems Contract & West Oahu Fanning Highway DB Contract		
		September '13 Contingency Drawdown	18,119,297	
October '13				
GS-200	Maintenance & Storage Facility DB	Executed Change Order No. 10 - Ins. Covr Requirements Roof Access Modification	\$637.1	
GS-200	Maintenance & Storage Facility DB	Budget Transfer for Contract Award under D-50 FID contract budget		
GS-130	West Oahu Fanning Highway Guideway DB	Executed Change Order No. 37 - ADA Ice Street Moor Y208 at LH Station & Fanning MTP		
GS-200	Maintenance & Storage Facility DB	Executed Change Order No. 05 - Platform Safety Gates System		
GS-200	Maintenance & Storage Facility DB	Budget Transfer for Contract Award under D-50 FID contract budget		
		October '13 Contingency Drawdown	18,221,847.29	
November '13				
GS-130	West Oahu Fanning Highway Guideway DB	Executed Change Order No. 38 - Insurance Coverage Requirement CH 2011	\$615.0	
GS-130	West Oahu Fanning Highway Guideway DB	Budget Transfer for Contract Award under D-50 FID contract budget		
GS-200	Maintenance & Storage Facility DB	Executed Change Order No. 014 - Preliminary Design & Supplemental Project Management 2		
GS-200	Maintenance & Storage Facility DB	Executed Change Order No. 015 - Yard Layout Revision/SP Structural Steel Modification		
GS-200	Maintenance & Storage Facility DB	Budget Transfer for Contract Award under D-50 FID contract budget		
GS-200	Maintenance & Storage Facility DB	Executed Contract Amendment No. 01 - Archaeological Inventory Survey (AIS) Supplemental		
FO-240	Fanning Highway Stations Group FID	Budget Transfer for Contract Award for HSDG FID		
		November '13 Contingency Drawdown	18,107,353	
December '13				
FO-430	Airport Section Guideway Utilities FID	Executed Contract Amendment No. 05 - Items St reclassification impact	\$610.0	
FO-140	West Oahu Station Group FID	Executed Contract Amendment No. 03 - Design modification at HECO, AEP, and West Oahu		
		December '13 Contingency Drawdown	18,272,886	
January '14				
FO-430	Airport Section Guideway Utilities FID	Executed Contract Amendment No. 06 - Archaeological Inventory Survey (AIS) Suspension	\$609.8	
FO-140	West Oahu Station Group FID	Budget Transfer for Contract Award under D-50 FID contract budget		
MO-200	Construction Engineering & Inspection Mgmt	Budget Transfer for Contract Award under D-50 FID contract budget		
MO-200	Construction Engineering & Inspection Mgmt	Budget Transfer for Contract Award under D-50 FID contract budget		
		January '14 Contingency Drawdown	18,149,719	
February '14				
FO-430	Airport Section Guideway Utilities FID	Executed Contract Amendment No. 07 - Repair & Sign Section Investigation	\$608.3	
MO-200	Construction Engineering & Inspection Mgmt	Budget Transfer for Contract Award - Archaeological & Cultural Monitoring contract		
MO-200	Construction Engineering & Inspection Mgmt	Budget Transfer for Contract Award - Archaeological & Cultural Monitoring & Core Systems Support contract		
MO-200	Construction Engineering & Inspection Mgmt	Budget Transfer for Contract Award - Archaeological & Cultural Monitoring & Core Systems Support contract		
MO-200	Construction Engineering & Inspection Mgmt	Budget Transfer for Contract Award - Core Systems Support contract		
		February '14 Contingency Drawdown	18,103,000	
March '14				
FO-430	Airport Section Guideway Utilities FID	Executed Contract Amendment No. 08 - Archaeological Inventory Survey (AIS) Suspension	\$606.2	
MO-200	Construction Engineering & Inspection Mgmt	Budget Transfer for Contract Award - Core Systems Support contract		
MO-200	Construction Engineering & Inspection Mgmt	Budget Transfer for Contract Award - Archaeological & Cultural Monitoring & Core Systems Support contract		
MO-200	Construction Engineering & Inspection Mgmt	Budget Transfer for Contract Award - Archaeological & Cultural Monitoring & Core Systems Support contract		
MO-200	Construction Engineering & Inspection Mgmt	Budget Transfer for Contract Award - Core Systems Support contract		
		March '14 Contingency Drawdown	18,103,000	

HART Project Contingency Drawdown with Details

OID# 88 of 1022915

Project No.	Project Description	Budget Transfer/Change Description	Contingency Drawdown (\$)	Contingency Credit
05-120	Kaunahana Highway Guideway DB	Executed Change Order No. 011 - Station Vest & Configuration Moats	11,309,000	010 - Allocated Contingency
05-120	West Oahu Farmington Highway Guideway DB	Executed Change Order No. 047 - Station Vest & Configuration Moats	14,488,000	001 - Unallocated Contingency
05-140	Airport Stations Group FD	Executed Contract Amendment No. 007 - Extension of PM Services	1,199,000	002 - Allocated Contingency
05-140	West Oahu Farmington Highway Guideway DB	Executed Contract Amendment No. 001 - Add Professional Engineers to H.A. Station	1,424,000	002 - Allocated Contingency
05-240	Airport Stations Group FD	Executed Contract Amendment No. 001 - Extension of PM Services	1,199,000	003 - Contract Allowance
05-240	West Oahu Farmington Highway Guideway DB	Executed Contract Amendment No. 001 - Extension of PM Services	1,424,000	003 - Contract Allowance
05-340	Airport Stations Group FD	Executed Contract Amendment No. 009 - Vegetation of Comments	1,419,000	001 - Unallocated Contingency
05-340	West Oahu Farmington Highway Guideway DB	Executed Contract Amendment No. 009 - Vegetation of Comments	1,419,000	001 - Unallocated Contingency
05-440	Airport Stations Group FD	Executed Contract Amendment No. 004 - ERO/SLIP Meeting	1,419,000	001 - Unallocated Contingency
05-440	West Oahu Farmington Highway Guideway DB	Executed Contract Amendment No. 004 - ERO/SLIP Meeting	1,419,000	001 - Unallocated Contingency
05-140	West Oahu Stations Group FD	Executed Contract Amendment No. 010 - Transition Parking Lot Near HANAKIAHAKO & Hoopa - Single Holding Lane	1,419,200	003 - Contract Allowance
05-140	West Oahu Stations Group FD	Executed Contract Amendment No. 011 - Extension of PM Services	8,501,000	002 - Allocated Contingency
October '14 - Ending Contingency Drawdown				18,130,738.8
November '14				\$531.8
06CM-009	Core Systems Contract Design Build O&M	Executed Change Order No. 012 - Delete TCR1 Venting Machines	110,369,000	000 - Allocated Contingency
FD-560	Kingman-Kaunahana Stations Group FD	Executed Contract Amendment No. 002 - General Excise Tax Credit	935,600	007 - Allocated Contingency
November '14 Contingency Drawdown				110,798,568
November '14 - Ending Contingency Balance				\$542.5
06CM-009	Core Systems Contract Design Build O&M	Executed Change Order No. 010 - RFI1 from Mock-up Shoring/Seismicity	1,003,715.0	002 - Allocated Contingency
06CM-009	Core Systems Contract Design Build O&M	Executed Change Order No. 013 - HECO Connection Changes	1,159,200.0	002 - Allocated Contingency
06S-120	Kaunahana Highway Guideway DB	Executed Change Order No. 014 - Escalation due to Schedule Impacts	1,875,500.000	002 - Allocated Contingency
06S-120	West Oahu Farmington Highway Guideway DB	Executed Change Order No. 048 - Escalation due to Schedule Impacts	1,153,000.000	001 - Unallocated Contingency
December '14 Contingency Drawdown				8,181,715.0
December '14 - Ending Contingency Balance				\$523.8
January '15				\$523.8
06CM-009	Core Systems Contract Design Build O&M	Executed Change Order No. 011 - Eliminate Station Manager Booths	3,110,000	002 - Allocated Contingency
06S-120	West Oahu Farmington Highway Guideway DB	Executed Change Order No. 050 - Escalation due to Schedule Impacts, Subcontractor Ameron Aggregates	1,494,413.0	001 - Unallocated Contingency
06S-120	West Oahu Farmington Highway Guideway DB	Executed Change Order No. 051 - Escalation due to Schedule Impacts, Subcontractor Amc,Orfite Joint	1,871,413.0	001 - Unallocated Contingency
06S-120	West Oahu Farmington Highway Guideway DB	Executed Change Order No. 052 - Escalation due to Schedule Impacts, Subcontractor BPO Spec Duty Officer	1,159,120.0	001 - Unallocated Contingency
06S-120	West Oahu Farmington Highway Guideway DB	Executed Change Order No. 053 - Escalation due to Schedule Impacts, Subcontractor BESA Bids	1,177,120.0	001 - Unallocated Contingency
06S-120	West Oahu Farmington Highway Guideway DB	Executed Change Order No. 054 - Escalation due to Schedule Impacts, Subcontractor Road Builder	1,118,045.0	001 - Unallocated Contingency
06S-120	West Oahu Farmington Highway Guideway DB	Executed Change Order No. 055 - Escalation due to Schedule Impacts, Subcontractor Road Builder	1,191,117.0	001 - Unallocated Contingency
06S-120	West Oahu Farmington Highway Guideway DB	Executed Change Order No. 056 - Escalation due to Schedule Impacts, Subcontractor Road Builder	1,103,951.0	001 - Unallocated Contingency
06S-120	West Oahu Farmington Highway Guideway DB	Executed Change Order No. 057 - Escalation due to Schedule Impacts, Subcontractor Road Builder	1,177,861.0	001 - Unallocated Contingency
06CM-009	Core Systems Contract Design Build O&M	Executed Contract Amendment No. 014 - Eliminate Station Manager Booths	350,000	002 - Allocated Contingency
FD-400	Airport Stations Group FD	Executed Contract Amendment No. 017 - Contaminated Soil - Piers, Wayade Lubricators	1,905,200.0	007 - Allocated Contingency
FD-560	Kingman-Kaunahana Stations Group FD	Executed Contract Amendment No. 001 - Scope for Downhaul Spillout - Greater South-Plains - 5th & Ellar Plains	1,400,013.0	002 - Allocated Contingency
FD-560	Kingman-Kaunahana Stations Group FD	Executed Contract Amendment No. 004 - Add Wayne Transit Co-Contractor 90s Vehicle Exploding Baggage Loads	1,616,117.0	002 - Allocated Contingency
FD-340	Airport Stations Group FD	Executed Contract Amendment No. 005 - Addition of Blue Pumps to HH05 Stations	1,171,240.0	002 - Allocated Contingency
FD-340	West Oahu Farmington Highway Stations Group FD	Executed Contract Amendment No. 008 - Addition of 30' Guideway, Section West Loh and Waipahu Stations	101,000.0	002 - Allocated Contingency
FD-340	West Oahu Farmington Highway Stations Group FD	Executed Contract Amendment No. 007 - MCOs to West Loh and Waipahu Upper Design	184,000.000	002 - Allocated Contingency
January '15 Contingency Drawdown				161,888,240.0
January '15 - Ending Contingency Balance				\$518.8
February '15				\$518.8
06S-120	West Oahu Farmington Highway Guideway DB	Executed Change Order No. 049 - Station Upgrade General Destructive	1,491,151.0	001 - Allocated Contingency
06S-120	West Oahu Farmington Highway Guideway DB	Executed Change Order No. 048 - Extension of Waipahu to Oahu, LCC Station & Passenger Vibration Criteria	1,250,000.0	000 - Allocated Contingency
06S-120	West Oahu Farmington Highway Guideway DB	Executed Change Order No. 041 - Station Upgrade Design	1,529,413.0	002 - Allocated Contingency
06S-120	West Oahu Farmington Highway Guideway DB	Executed Change Order No. 042 - Station Upgrade Design	1,644,913.0	002 - Allocated Contingency
06S-120	West Oahu Farmington Highway Guideway DB	Executed Change Order No. 043 - Station Upgrade Design	1,133,913.0	001 - Unallocated Contingency
February '15 Contingency Drawdown				144,109,486.3
February '15 - Ending Contingency Balance				\$515.6
March '15				\$515.6
06CM-009	Core Systems Contract Design Build O&M	Executed Change Amendment No. 015 - Test and Storage Track Changes at MSF	14,519,000.0	002 - Allocated Contingency
FD-140	West Oahu Stations Group FD	Executed Change Amendment No. 013 - M20265 Paved and VE Items, 4th Bay Station Canopy Roofs, Change to ESC Over location	1,209,000.0	002 - Allocated Contingency
FD-140	West Oahu Stations Group FD	Executed Change Amendment No. 013 - M20265 Paved and VE Items, 4th Bay Station Canopy Roofs, Change to ESC Over location	1,209,000.0	003 - Contract Allowance
FD-530	City Center Stations Group FD	Executed Change Amendment No. 009 - Management Extension thru October 2014	1,892,600.0	002 - Allocated Contingency
06S-525	Airport Stations Group FD	Executed Change Order No. 001 - HOOO1 A Valley Retention at Piers	1,400,000.0	002 - Allocated Contingency
FD-340	Kingman-Kaunahana Highway Stations Group FD	Executed Change Amendment No. 009 - Misc. RF's Interface Items	1,300,110.0	002 - Allocated Contingency
FD-340	Kingman-Kaunahana Highway Stations Group FD	Executed Change Amendment No. 009 - Alpha Stadium Low Impact Development Requirement	1,420,000.0	005 - Contract Allowance
March '15 Contingency Drawdown				14,910,830.0
March '15 - Ending Contingency Balance				\$510.7
FD-140	West Oahu Stations Group FD	Executed Contract Amendment No. 014 - Redesign of East Station Escalator	1,608,000.0	002 - Allocated Contingency
FD-140	West Oahu Stations Group FD	Executed Contract Amendment No. 014 - Haggai Underpass	1,125,000.0	003 - Contract Allowance
06S-525	Airport Stations Group FD	Executed Change Order No. 015 - Redesign of PMS3 Trench at PMS3 and CSC Cabovers at East Station	1,812,910.0	002 - Allocated Contingency
06S-120	West Oahu Farmington Highway Guideway DB	Executed Change Order No. 040 - Hazard Assessment for LCC Footfalls	188,116.0	002 - Allocated Contingency

HART Project Contingency Drawdown with Details

Date as of 10/22/15:

Project No.	Project Desc.	Budget Transfer/Change Description	Contingency Drawdown (M)	Contingency Code
April '15 Contingency Drawdown				
April '15 - Ending Contingency Balance			\$510.4	
May '15				
1)	West Oahu Stations Group FD	Executed Contract Amendment No. 018 - PS&EP to Clarify Designpower to include 500'x500' Contingency	\$510.4	00 00 - Conting Allowance
2)	Fairington Highway Stations Group-2 FD	Executed Contract Amendment No. 008 - V&E of Lock Generator	\$17,000.00	00 03 - Contract Allowance
3)	Amoia Stations Group FD	Executed Contract Amendment No. 004 - H&A Construction to be gas	\$23,000.00	00 03 - Contract Allowance
4)	Kaunahana Highway Guideway, DB	Executed Change Order No. 010 - Delay to Method Stage I	\$171,000.00	00 02 - Allocated Contingency
5)	Core Systems Contract Design, Build O&M	Executed Change Order No. 018 - Dealer Passenger Counters, Control Time, W&E Provisions in V&E	\$114,181.00	00 02 - Allocated Contingency
6)	DB-500	Executed Change Order No. 000 - Q987 for 11/16/15 in E&C System Design Rev.	\$489,000.00	00 02 - Allocated Contingency
May '16 Contingency Drawdown			\$616,081.00	
June '15				
1)	MM-923	Budget Transfer from inactive OPR - HOV Airport consultant back on City Center scope	\$1,094,762.00	00 01 - Unallocated Contingency
2)	MM-953	Budget Transfer to Provide Funding for FY2015	\$593,094.00	00 01 - Unallocated Contingency
3)	MM-923	Executed Contract Amendment No. 013 - Airport Design Build Package	\$523,640.00	00 02 - Allocated Contingency
4)	MM-953	Budget Transfer for excorated option for one year extension of services	\$1,818,217.00	00 01 - Unallocated Contingency
5)	MM-923	Budget Transfer for On Call Contractor (Performance, CSC, related scope at the ROC)	\$1,502,000.00	00 02 - Allocated Contingency
June '16 Contingency Drawdown			\$5,109,227.00	
July '15				
1)	ROCH-100	Inactive OPR (015 cost), reduces budget to incurred costs	\$419,591.00	00 01 - Unallocated Contingency
2)	DB-170	Executed Contract Change Order No. 065 - Reloc of LCC Portable sign for	\$408,919.00	00 01 - Unallocated Contingency
3)	DB-170	Executed Contract Change Order No. 065 - Reloc of LCC Portable sign for	\$355,800.00	00 01 - Unallocated Contingency
4)	DB-170	Executed Contract Change Order No. 067 - Reloc of Vest Lane at Kahala	\$324,600.00	00 01 - Unallocated Contingency
5)	DB-500	Executed Contract Change Order No. 011 - MOV Interior Bldg. Systems Devices	\$186,000.00	00 02 - Allocated Contingency
6)	DB-500	Executed Contract Change Order No. 032 - Relocation of Ventilation Roof Request	\$193,415.00	00 02 - Allocated Contingency
July '16 Contingency Drawdown			\$6,907,656.00	
August '15				
1)	DB-170	Executed Contract Change Order No. 068 - Delay of P&E, Z&A - E&C - Escalation	\$5,229,426.00	00 01 - unallocated Contingency
2)	DB-500	Executed Contract Change Order No. 033 - E&C Foundation	\$444,110.00	00 02 - Allocated Contingency
3)	DB-500	Executed Change Order No. 017 - Relocate Sewer Near DB-500 to 141' F&G	\$181,261.00	00 02 - Allocated Contingency
4)	FD-140	Executed Contract Amendment No. 010 - Power to Utility Station and Electrical Bonding	\$449,000.00	00 05 - Contract Allowance
5)	FD-340	Executed Contract Amendment No. 010 - Pedestrian Bridge Modifications	\$18,750.00	00 05 - Contract Allowance
6)	FD-340	Executed Change Amend No. 007 - Value Engineering reduce 5th Cost and PH, PG and AS New Platform Canopy Coordination	\$624,522.00	00 02 - Allocated Contingency
7)	FD-440	Executed Contract Amendment No. 005 - Design Build Bridge Documents	\$239,000.00	00 02 - Allocated Contingency
8)	DBOM-925	Executed Change Order No. 017 - Voltage Flicker Study	\$637,960.00	00 02 - Allocated Contingency
9)	FD-550	Executed Change Amend No. 00005 - Scope of Change - Schedule Extension	\$17,388,830.00	00 02 - Allocated Contingency
August '16 Contingency Drawdown			\$17,388,830.00	
September '15				
1)	DB-320	Executed contract change Order No. 018 - Mainover Substation at Boring 4.25E Utility Variations from RFP	\$492,891.00	00 02 - Allocated Contingency
September '16 Contingency Drawdown			\$492,891.00	
October '15				
October '15 - Ending Contingency Balance			\$492.89	
July '15 - Board Approved Changes Only - Pending execution				
1)	DBOM-925	Executed Contract Design, Build O&M	\$492,891.00	00 02 - Allocated Contingency
October '15 - Board Approved Changes Only - Pending execution			\$492.89	
1)	DBOM-925	Contract Change Order 00018 - 3 month Delay Claim Resolution	\$5,300,000.00	00 02 - Allocated Contingency
Subtotal Board Approved Contingency Drawdown			\$5,300,000.00	
October '15 - Ending Contingency Balance (Pending Execution)			\$489.3	

Appendix C. Project Cost Reports (data as of Sept. 25, 2015)

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

Project Costs by Contract



Costs Reported as of Month Ending September 2015

August Project Monthly Cost Report by Contract - One Line Summary

CPP No.	Title	T&M	A		B		C=A+B		D		E		F	
			Original	Changes	COMMITTED	Current *	AFE**	AFE**	Incurred To Date	PERCENT				
ART	ART Contracts		0	0	0	0	0	0	0	0	0	0	0	0%
CCH-100	Inactive HART/CTY CCH		15,348,443	0	15,348,443	0	15,348,443	0	14,925,228	0	14,925,228	0	37%	37%
CCH-101	HART/CTY Dept of BFS		105,092	0	105,092	0	105,092	0	0	0	0	0	0%	0%
CCH-102	HART/CTY DDC Land Division		256,201	0	256,201	0	256,201	0	173,182	0	173,182	0	68%	68%
CCH-107	HART/CTY Corporation Counsel (COR)		1,667,924	0	1,667,924	0	1,667,924	0	151,671	0	151,671	0	9%	9%
CCH-108	HART /Board of Water Supply(BWS)		928,325	0	928,325	0	928,325	0	928,325	0	928,325	0	100%	100%
DB-120	West Oahu/Farrington Hwy. Guideway DB	SOM	482,924,000	148,282,384	631,206,384	631,206,384	631,206,384	631,206,384	463,061,419	0	463,061,419	0	73%	73%
DB-200	Maintenance & Storage Facility DB	SOM	195,258,000	79,620,772	274,878,772	274,878,772	274,878,772	207,909,506	225,845,597	0	225,845,597	0	82%	82%
DB-320	Kamehameha Hwy. Guideway DB	SOM	372,150,000	16,739,985	388,909,985	388,909,985	388,909,985	168,647,073	168,647,073	0	168,647,073	0	43%	43%
DB-450	Airport Section Guideway and Sta. DB	SOV	100,000	0	100,000	100,000	100,000	0	62,982	0	62,982	0	63%	63%
DBB-171	West Oahu Station Group DBB	SOV	56,088,470	0	56,088,470	56,088,470	56,088,470	0	0	0	0	0	0%	0%
DBB-185	SPCD - West Side S/G Construction	SOV	0	0	0	0	0	0	0	0	0	0	0%	0%
DBB-271	Farrington Highway Station Group DBB	SOV	78,999,000	0	78,999,000	78,999,000	78,999,000	0	0	0	0	0	0%	0%
DBB-275	SPCD-Pearl Highlands Pkg. Str. Onstr.	SOV	0	0	0	0	0	0	0	0	0	0	0%	0%
DBB-385	H2R2 Ramp	SOV	5,203,646	0	5,203,646	5,203,646	5,203,646	0	0	0	0	0	0%	0%
DBB-470	SPCD-Airport Station Group Onstr.	SOV	0	0	0	0	0	0	0	0	0	0	0%	0%
DBB-505	Airport Section Utilities Constr. DBB	SOV	28,413,974	0	28,413,974	28,413,974	28,413,974	0	6,272,609	0	6,272,609	0	22%	22%
DBB-510	City Ctr. Section Util. Constr. DBB	SOV	0	0	0	0	0	0	0	0	0	0	0%	0%
DBB-520	SPCD-Airport-City Center Guideway Cntr.	SOV	0	0	0	0	0	0	0	0	0	0	0%	0%
DBB-525	Airport Section Guideway 7 Pier DBB	SOV	3,973,000	508,241	4,481,241	4,481,241	4,481,241	0	3,796,241	0	3,796,241	0	85%	85%
DBB-580	SPCD-Dillingham/Kaka'ako S/G Cntr.	SOV	0	0	0	0	0	0	0	0	0	0	0%	0%
DBB-600	Park-and-Ride Lots Construction	SOV	0	0	0	0	0	0	0	0	0	0	0%	0%
DBB-M-920	Core Systems Design Build D/M	SOM	573,782,793	21,280,894	595,063,687	595,063,687	595,063,687	150,172,400	150,172,400	0	150,172,400	0	25%	25%
FD-140	West Oahu Station Group FD	SOM	7,789,000	2,225,305	10,014,305	10,014,305	10,014,305	9,093,096	9,093,096	0	9,093,096	0	91%	91%
FD-240	Farrington Highway Stations Group FD	SOM	9,300,696	4,897,349	14,198,045	14,198,045	14,198,045	12,546,293	12,546,293	0	12,546,293	0	88%	88%
FD-245	SPCD-Pearl Highlands Pkg. Str. FD	SOM	0	0	0	0	0	0	0	0	0	0	0%	0%
FD-340	Kamehameha Hwy. Station Group FD	SOM	8,702,592	933,638	9,636,230	9,636,230	9,636,230	8,843,841	8,843,841	0	8,843,841	0	92%	92%
FD-430	SPCD-Airport Sect. Guideway/Util. FD	SOM	38,840,960	4,293,512	43,134,472	43,134,472	43,134,472	41,028,823	41,028,823	0	41,028,823	0	95%	95%
FD-440	SPCD-Airport Station Group FD	SOM	10,177,365	1,494,840	11,672,205	11,672,205	11,672,205	9,801,978	9,801,978	0	9,801,978	0	84%	84%
FD-530	SPCD - City Center Guideway/Util. FD	SOM	43,948,220	2,235,303	46,183,523	46,183,523	46,183,523	40,284,180	40,284,180	0	40,284,180	0	87%	87%
FD-550	SPCD - Dillingham and Kaka'ako S/G FD	SOM	18,321,918	986,124	19,308,042	19,308,042	19,308,042	10,667,500	10,667,500	0	10,667,500	0	55%	55%
FD-600	Park-and-Ride Lots Final Design	SOM	0	0	0	0	0	0	0	0	0	0	0%	0%
HRT-200	HART Labor		42,951,942	0	42,951,942	42,951,942	42,951,942	0	41,281,148	0	41,281,148	0	96%	96%

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* Current Committed = Original Contract + CCO/Amendment

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Costs Reported as of Month Ending September 2015

August 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	Changes	COMMITTED	Current *	AFE**	Incurred To Date			
HRT-201	HART ODC Contracts	15,759,154	0	15,759,154	0	17,128,759	0	17,128,759	109%	
MM-900	Fare Collection DFI	0	0	0	0	0	0	0	0%	
MM-930	Elevators & Escalators Install/Maint	50,982,714	0	50,982,714	5,442,108	4,643,982	5,442,108	4,643,982	9%	
MM-280	SPCD-WOPH/KHSG CE&I(REPA CKA GED)	0	0	0	0	0	0	0	0%	
MM-290	Construction Engng & Insp Res West	54,232,480	0	54,232,480	16,650,000	16,786,614	16,650,000	16,786,614	31%	
MM-385	SPCD-By M M959 CEI East	0	0	0	0	0	0	0	0%	
MM-500	SPCD-By M M959 CEI East	0	0	0	0	0	0	0	0%	
MM-525	SPCD-By M M959 CEI East	0	0	0	0	0	0	0	0%	
MM-580	SPCD-By M M959 CEI East	0	0	0	0	0	0	0	0%	
MM-595	SPCD - Const. Engng & Insp. East	63,083,417	-47,826,417	15,257,000	(32,569,417)	11,045,554	15,257,000	11,045,554	72%	
MM-596	Construction Engng & Insp RE-Complete	55,036,130	0	55,036,130	55,036,130	0	55,036,130	0	0%	
MM-600	SPCD-UHWO Pkg-Hoopili Str Fresh CEI	0	0	0	0	0	0	0	0%	
MM-900	Program Mgt. Support Const (PM SC-1)	15,952,569	0	15,952,569	20,700,000	0	20,700,000	0	0%	
MM-901	Program Mgt. Support Const (PM SC-2)	33,376,897	7,616,277	40,993,274	34,297,167	34,945,136	40,993,274	34,945,136	85%	
MM-905	MM-905 Gen Engng Const EIS/PE	0	78,564,942	78,564,942	78,564,942	74,157,822	78,564,942	74,157,822	94%	
MM-910	MM-910 Gen Engng Const FD-Construct	150,000,000	0	150,000,000	150,000,000	149,446,962	150,000,000	149,446,962	100%	
MM-913	MM-913 Gen Engng Recomplete	46,143,277	0	46,143,277	13,078,208	21,051,360	46,143,277	21,051,360	46%	
MM-915	HDOT Traffic Mgmt. Consult.	1,600,000	1,400,000	3,000,000	4,000,000	2,674,423	3,000,000	2,674,423	89%	
MM-920	HDOT Coordination Const WOPH	3,000,000	7,500,000	10,500,000	10,500,000	6,396,380	10,500,000	6,396,380	61%	
MM-921	HDOT Coordination Const KHG	10,000,000	-1,400,000	8,600,000	5,000,000	3,666,816	8,600,000	3,666,816	43%	
MM-922	HDOT Coordination Const. Airport	12,000,000	-5,600,000	6,400,000	3,000,000	2,297,333	6,400,000	2,297,333	36%	
MM-923	HDOT Coordination Const City Center	0	0	0	0	0	0	0	0%	
MM-925	HDOT Labor - WOPH/KHSG Agreements	550,000	1,265,633	1,815,633	3,081,266	1,556,509	1,815,633	1,556,509	86%	
MM-926	HDOT Labor - Airport Agreements	0	0	0	0	0	0	0	0%	
MM-930	HDOT State SOA Manager & Consultant	1,272,400	563,142	1,855,542	843,167	806,080	1,855,542	806,080	43%	
MM-935	Real Estate Consultant	3,000,000	3,327,665	6,327,665	4,817,665	5,253,522	6,327,665	5,253,522	83%	
MM-937	Real Estate Consultant - Maps/Surv.	2,998,000	0	2,998,000	1,500,000	508,128	2,998,000	508,128	17%	
MM-940	Kaiko'o Consultant	1,000,000	0	1,000,000	500,000	510,749	1,000,000	510,749	51%	
MM-945	On-Call Contractor	1,000,000	999,951	1,999,951	1,799,951	1,911,070	1,999,951	1,911,070	96%	
MM-946	On-Call Hazmat Removal Contractor	3,075,000	0	3,075,000	1,000,000	2,003,747	3,075,000	2,003,747	65%	
MM-947	On-Call Contractor 2	7,500,000	0	7,500,000	1,000,000	1,295,646	7,500,000	1,295,646	17%	
MM-950	OCIP Consultant	1,250,000	0	1,250,000	1,250,000	920,469	1,250,000	920,469	74%	
MM-951	Owner-Controlled Insurance Program	41,000,000	0	41,000,000	0	26,494,012	41,000,000	26,494,012	65%	

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Costs Reported as of Month Ending September 2015

August 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	Changes	COMMITTED	Current*	AFE**	AFE**	Incurred To Date	PERCENT	Incurred To Date	PERCENT		
MM-960	Archaeological & Cultural Monitoring	T8M	1,010,609	0	1,010,609	1,010,609	967,161	96%					
MM-962	Core Systems Support	CPFF	43,988,989	0	43,988,989	10,812,962	25%						
MM-964	Safety and Security Consultant	FFF	4,639,573	112,751	4,812,324	2,235,556	48%						
MM-975	LEED Commissioning Services for MSF	T8M	278,630	9,910	288,540	102,145	35%						
OTHER	All Project Wide Documents		0	0	0	0	0%						
PA-101	Programmatic Agreement Humanities	PA	0	0	0	0	0%						
PA-102	Programmatic Agreement HP C	T8MT1	400,000	0	400,000	172,325	43%						
PA-103	Programmatic Agreement HP C Park Impr	PA	0	0	0	0	0%						
ROW	Real Estate / Right-of-Way		89,885,511	0	89,885,511	81,789,500	91%						
UTIL	Utility Company Contracts	T8M	91,526,631	17,142,123	108,668,755	38,017,031	35%						
Total Project:			2,800,833,542	347,214,483	3,148,048,025	2,645,535,830	1,727,221,292						

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Project Costs by SCC – Summary



Costs Reported as of Month Ending September 2015
Project Monthly Cost Report by SCC Summary

SCC	Title	BUDGET		D	E	F	G	H=C-G	I
		A	B						
		Baseline	Transfers	Current	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	46,008,500	1,160,223,647	37,178,932	70,898	1,160,223,647	0	235,047,373
20.	Stations, Stops, Terminals, Intermodal	421,804,740	(25,138,472)	396,666,268	0	0	396,666,268	0	4,643,982
30.	Support Facilities, Yards, Shops, Admin	92,535,015	22,007,354	114,542,369	18,198,705	0	114,542,369	0	75,445,757
40.	Sitework & Special Conditions	983,178,121	45,645,584	1,028,823,705	171,393,867	(400,130)	1,028,823,705	0	499,589,989
50.	Systems	221,284,301	26,296,231	247,580,532	27,038,099	0	247,580,532	0	33,202,470
60.	ROW, Land, Existing Improvements	197,397,947	528,621	197,926,568	329,820	5,886,395	197,926,568	0	87,342,497
70.	Vehicles	186,829,020	4,645,501	191,474,521	1,446,224	0	191,474,521	0	29,150,290
80.	Professional Services	1,087,830,119	30,754,195	1,118,584,314	92,077,939	(14,135,063)	1,118,584,314	0	742,994,814
A.C.	Provisional Pay Requests	0	0	0	0	0	0	0	19,374,627
Subtotal:		4,305,074,410	130,747,515	4,435,821,925	347,602,586	(8,577,300)	4,455,821,925	0	1,726,731,793
2. NTP									
NTP	Authorized For Expenditure	0	0	0	2,193,935,955	0	0	0	0
Subtotal:		0	0	0	2,193,935,955	0	0	0	0
3. Contingency									
CNTR	All-located Contingency	541,689,343	(95,779,609)	445,909,734	3,997,289	338,456,505	445,909,734	0	489,493
PRJ	Unallocated Contingency	101,871,170	(54,967,905)	46,903,265	0	0	46,903,265	0	0
Subtotal:		643,560,513	(150,747,515)	492,812,999	3,997,289	338,456,505	492,812,999	0	489,493
4. Finance Charges - Eligible									
OTH	Finance Charges	173,058,243	0	173,058,243	0	0	173,058,243	0	0
Subtotal:		173,058,243	0	173,058,243	0	0	173,058,243	0	0
FTA TOTAL PROJECT COSTS 5,121,693,166									
		0	5,121,693,166	3,148,048,025	2,545,535,830	329,879,205	5,121,693,166	0	1,727,221,292
4. Finance Charges - Ineligible Costs									
FINC	Finance Charges	42,000,000	0	42,000,000	0	0	42,000,000	0	0
Subtotal:		42,000,000	0	42,000,000	0	0	42,000,000	0	0
INELIGIBLE COSTS									
		42,000,000	0	42,000,000	0	0	42,000,000	0	0
Total Project:		5,163,693,166	0	5,163,693,166	2,546,535,830	329,879,205	5,163,693,166	0	1,727,221,292

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 *** Changes Identified= Pending + Probable + Potential Changes
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Project Costs by SCC – Level 2

Costs Reported as of Month Ending September 2015
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						
						Current	Current*		AFE**	Changes ID'd***	Est. At Completion****	Variance	Incurred To Date
1. Subtotal 10 - 80 SCC Costs													
10.01	Guideway & Track Elements	1,114,215,147	46,008,500	1,160,223,647	550,992,093	37,178,532	70,888	1,160,223,647	0	70,888	1,160,223,647	0	235,047,373
10.02	Guideway, At-grade semi-exclusive	0	17,378	17,378	17,378	17,378	0	17,378	0	17,378	17,378	0	17,378
10.04	Guideway: Aerial Structure	1,022,380,671	43,014,981	1,065,395,652	465,671,878	27,499,427	70,888	1,065,395,652	0	70,888	1,065,395,652	0	185,962,277
10.08	Guideway: Retained Cut or Fill	7,482,944	(1,056,688)	6,426,256	6,426,256	0	0	6,426,256	0	0	6,426,256	0	0
10.09	Track: Direct Fixation	79,347,205	3,097,822	82,445,027	74,637,831	9,630,851	0	82,445,027	0	0	82,445,027	0	49,067,718
10.11	Track: Ballasted	3,293,724	(595,849)	2,697,875	2,697,875	0	0	2,697,875	0	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	0	3,231,479	0	0
20. Stations, Stops, Terminals, Intermodal	421,804,740	(25,138,472)	396,666,268	186,070,184	0	0	0	396,666,268	0	0	396,666,268	0	4,643,982
20.01	At-grade station, stop, shelter,...	6,111,332	0	6,111,332	0	0	0	6,111,332	0	0	6,111,332	0	0
20.02	Aerial Station, stop, shelter, mail	294,563,457	(21,400,000)	273,163,457	135,087,470	0	0	273,163,457	0	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	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	0	50,982,714	0	4,643,982
30. Support Facilities: Yards, Sheds, Admin	92,535,015	22,007,354	114,542,369	114,542,369	18,198,705	0	0	114,542,369	0	0	114,542,369	0	75,445,757
30.02	Light Maintenance Facility	7,591,888	(5,095)	7,586,793	7,586,793	0	0	7,586,793	0	0	7,586,793	0	1,661,094
30.03	Heavy Maintenance Facility	38,099,138	4,978,688	43,077,826	43,077,826	5,220,776	0	43,077,826	0	0	43,077,826	0	24,771,232
30.04	Storage or Maintenance of Way Buil	7,797,460	773,770	8,571,230	8,571,230	835,320	0	8,571,230	0	0	8,571,230	0	5,237,667
30.05	Yard and Yard Track	39,046,529	16,260,011	55,306,540	55,306,540	12,142,609	0	55,306,540	0	0	55,306,540	0	48,715,744
40. Siterwork & Special Conditions	983,178,121	45,645,584	1,028,823,705	734,179,900	171,333,897	(400,130)	0	1,028,823,705	0	489,589,989	0	0	489,589,989
40.01	Demolition, Clearing, Earthwork	29,980,158	(7,241,059)	22,739,099	8,589,446	632,302	0	22,739,099	0	0	22,739,099	0	2,504,792
40.02	Site Utilities, Utility Relocation	299,449,756	9,394,912	308,844,668	211,139,991	23,763,147	0	308,844,668	0	0	308,844,668	0	97,830,797
40.03	Haz. mat'l, contain'd soil removal	9,199,237	(5,288,831)	3,910,406	3,224,088	149,088	0	3,910,406	0	(391,304)	3,910,406	0	2,140,832
40.04	Environmental Mitigation	26,979,122	4,983,249	31,962,371	16,549,945	9,137	0	31,962,371	0	0	31,962,371	0	9,965,033
40.05	Site structures, retaining walls,	7,998,960	6,540,840	14,539,800	14,381,274	274,800	0	14,539,800	0	0	14,539,800	0	4,028,004
40.06	Pedestrian/bike access/landscaping	41,073,897	741,177	41,815,074	4,891,868	(4,268)	0	41,815,074	0	0	41,815,074	0	50,000
40.07	Auto, bus, van accessways	181,979,367	(15,949,515)	166,029,852	36,321,054	1,532,538	0	166,029,852	0	0	166,029,852	0	4,595,519
40.08	Temporary Facilities/Indirect Cost	386,517,624	52,464,611	438,982,235	438,982,235	144,837,440	0	438,982,235	0	(8,826)	438,982,235	0	378,535,012
50. Systems	221,284,301	26,296,231	247,580,532	232,420,319	27,038,099	0	0	247,580,532	0	0	247,580,532	0	33,202,470
50.01	Train control and signals	81,982,556	24,381,140	106,363,696	106,363,696	23,961,030	0	106,363,696	0	0	106,363,696	0	2,250,972
50.02	Traffic signals and crossing prot.	10,458,226	(206,890)	10,251,336	0	0	0	10,251,336	0	0	10,251,336	0	0
50.03	Traction power supply: substation	29,500,926	1,379,880	30,880,806	30,880,806	(87,485)	0	30,880,806	0	0	30,880,806	0	3,088,502
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	0	37,937,988	0	16,769,209

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



Costs Reported as of Month Ending September 2015
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	COMMITTED	Current	AFE	AFE**	Changes ID'd***	Est. At Completion****	Variance	Incurred To Date					
1. Subtotal 10 - 80 SCC Costs																		
50. Systems		221,284,301	26,296,231	247,580,532	232,420,319	27,038,939	0	247,580,532	0	247,580,532	0	33,202,470						
50.05 Communications		53,691,339	6,133,477	59,824,816	59,824,816	5,573,419	0	59,824,816	0	59,824,816	0	12,225,688						
50.06 Fare collection system and equipme		9,159,277	(10,291,178)	(1,131,901)	(1,131,901)	(10,350,000)	0	(1,131,901)	0	(1,131,901)	0	(1,131,901)						
50.07 Central Control		3,613,827	(160,036)	3,453,791	3,453,791	0	0	3,453,791	0	3,453,791	0	0						
60. ROW, Land, Existing Improvements		197,397,947	328,621	197,726,568	93,215,331	329,820	5,886,995	197,726,568	0	197,726,568	0	87,342,487						
60.01 Purchase or lease of real estate		179,360,664	250,821	179,611,485	86,263,854	52,020	4,966,995	179,611,485	0	179,611,485	0	77,473,977						
60.02 Relocation of existing households		18,037,283	277,800	18,315,083	6,945,477	277,800	900,000	18,315,083	0	18,315,083	0	9,868,520						
70. Vehicles		186,829,020	4,645,501	191,474,521	191,474,521	1,446,224	0	191,474,521	0	191,474,521	0	29,150,290						
70.01 Light Rail		166,721,386	5,847,191	172,568,577	172,568,577	1,446,224	0	172,568,577	0	172,568,577	0	21,357,829						
70.06 Non-revenue vehicles		14,346,923	(1,320,375)	13,026,548	13,026,548	0	0	13,026,548	0	13,026,548	0	7,792,461						
70.07 Spare parts		5,760,711	118,685	5,879,396	5,879,396	0	0	5,879,396	0	5,879,396	0	0						
80. Professional Services		1,087,880,119	30,754,195	1,118,634,314	1,038,014,543	92,077,339	(14,135,063)	1,118,634,314	0	1,118,634,314	0	742,394,814						
80.01 Preliminary Engineering		94,055,262	24,644,185	118,699,447	109,567,127	20,905,692	0	118,699,447	0	118,699,447	0	102,945,648						
80.02 Final Design		228,321,632	(2,061,977)	226,259,655	209,362,308	34,447,892	(4,895,353)	226,259,655	0	226,259,655	0	164,814,514						
80.03 Project Management Design & Cons		363,849,768	(29,383,713)	335,466,055	411,800,056	73,563,102	(17,323,901)	335,466,055	0	335,466,055	0	300,493,872						
80.04 Constr. Admin. & Management		199,656,728	(35,961,200)	163,695,529	110,604,651	(48,779,981)	180,000	163,695,529	0	163,695,529	0	75,916,481						
80.05 Professional Liability & other hs		46,549,724	28,781,938	75,331,662	43,174,657	700,500	0	75,331,662	0	75,331,662	0	28,373,781						
80.06 Legal, Permits Review Fees ect...		67,641,005	(3,206,464)	64,434,541	36,805,197	3,782,033	0	64,434,541	0	64,434,541	0	20,097,291						
80.07 Surveys, Testing, Investigation, I		21,759,396	47,172,110	68,931,446	67,822,570	1,436,194	0	68,931,446	0	68,931,446	0	27,495,734						
80.08 Start up		65,996,664	(230,685)	65,765,980	48,869,977	961,909	7,924,191	65,765,980	0	65,765,980	0	22,797,493						
A.C. Provisional Pay Requests		0	0	0	0	0	0	0	0	0	0	19,374,627						
ACR Provisional Request For Payment		0	0	0	0	0	0	0	0	0	0	19,374,627						
Subtotal:		4,305,074,410	150,747,515	4,455,821,925	3,140,905,261	347,602,586	(8,577,900)	4,455,821,925	0	4,455,821,925	0	1,726,731,799						
2. NTP																		
NTP Authorized For Expenditure		0	0	0	0	2,193,935,955	0	2,193,935,955	0	2,193,935,955	0	0						
NTP Notice To Proceed		0	0	0	0	2,193,935,955	0	2,193,935,955	0	2,193,935,955	0	0						
Subtotal:		0	0	0	0	2,193,935,955	0	2,193,935,955	0	2,193,935,955	0	0						

Report: M_Cho_pm_00_monthly_Soc_of_Bill - No. 23

* 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

Print Date: 10/9/15 12:13



Costs Reported as of Month Ending September 2015
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	Current	COMMITTED	Current*	AFE	AFE**	Changes ID'd***	Est. At Completion***	Variance	Incurred To Date						
3. Contingency																			
00.01	Unallocated Contingency	541,689,343	(95,779,608)	445,909,734	445,909,734	7,139,765	3,997,289	338,456,505	445,909,734	0	489,493	0	489,493	0	489,493	0	489,493	0	489,493
90.02	Allocated Contract Contingency	540,101,329	(97,993,339)	442,107,991	442,107,991	3,997,289	3,997,289	333,006,947	442,107,991	0	489,493	0	489,493	0	489,493	0	489,493	0	489,493
90.03	Allowances	1,588,014	2,219,729	3,807,743	3,807,743	3,141,476	0	5,449,658	3,807,743	0	(0)	0	0	0	0	0	0	0	0
90.07	Known Change Contingency	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PRJ	Unallocated Contingency	101,871,170	(54,967,905)	46,903,265	46,903,265	0	0	0	46,903,265	0	0	0	0	0	0	0	0	0	0
90.01	Unallocated Project Contingency	101,871,170	(54,967,905)	46,903,265	46,903,265	0	0	0	46,903,265	0	0	0	0	0	0	0	0	0	0
Subtotal:		643,560,513	(150,747,515)	492,812,999	492,812,999	7,139,765	3,997,289	338,456,505	492,812,999	0	489,493	0	489,493	0	489,493	0	489,493	0	489,493
4. Finance Charges - Eligible																			
OTH	Finance Charges	173,058,243	0	173,058,243	173,058,243	0	0	0	173,058,243	0	0	0	173,058,243	0	173,058,243	0	173,058,243	0	173,058,243
100.1	Finance Charges-Project-Eligible	173,058,243	0	173,058,243	173,058,243	0	0	0	173,058,243	0	0	0	173,058,243	0	173,058,243	0	173,058,243	0	173,058,243
Subtotal:		173,058,243	0	173,058,243	173,058,243	0	0	0	173,058,243	0	0	0	173,058,243	0	173,058,243	0	173,058,243	0	173,058,243
FTA TOTAL PROJECT COSTS 5,121,693,166																			
FTA TOTAL PROJECT COSTS		5,121,693,166	0	5,121,693,166	3,148,048,025	2,545,535,830	329,879,205	5,121,693,166	0	1,727,221,292	0	1,727,221,292	0	1,727,221,292	0	1,727,221,292	0	1,727,221,292	0
4. Finance Charges - Ineligible Costs																			
FINC	Finance Charges	42,000,000	0	42,000,000	42,000,000	0	0	0	42,000,000	0	0	0	42,000,000	0	42,000,000	0	42,000,000	0	42,000,000
100.2	FTA Non-Eligible Costs	42,000,000	0	42,000,000	42,000,000	0	0	0	42,000,000	0	0	0	42,000,000	0	42,000,000	0	42,000,000	0	42,000,000
Subtotal:		42,000,000	0	42,000,000	42,000,000	0	0	0	42,000,000	0	0	0	42,000,000	0	42,000,000	0	42,000,000	0	42,000,000
INELIGIBLE COSTS																			
INELIGIBLE COSTS		42,000,000	0	42,000,000	42,000,000	0	0	0	42,000,000	0	0	0	42,000,000	0	42,000,000	0	42,000,000	0	42,000,000
Total Project:		5,163,693,166	0	5,163,693,166	3,148,048,025	2,545,535,830	329,879,205	5,163,693,166	0	1,727,221,292	0	1,727,221,292	0	1,727,221,292	0	1,727,221,292	0	1,727,221,292	0

* 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. Procurement and Contract Status

Awarded Contracts						
Contract Code	Contract Name	Contractor Name	Advertise Date	Contract Date	Issue NTP	Contract Substantial Completion Date
DB-120	West O'ahu/Farrington Highway Guideway (WOFH)	Kiewit Infrastructure West Company (KIWC)	Apr 03 '09	Nov 11 '09	Dec 01 '09	Jul 04 '16
DB-200	Maintenance and Storage Facility (MSF)	Kiewit / Kobayashi Joint Venture (KKJV)	Jul 24 '09	June 30 '11	Jul 25 '11	Apr 15 '16
DB-320	Kamehameha Guideway (KHG)	Kiewit Infrastructure West Company (KIWC)	Mar 19 '08	June 30 '11	Jul 12 '11	Sep 18 '16
DBOM-020	Core Systems Contract	Ansaldo Honolulu JV	Aug 17 '09	Nov 28 '11	Jan 13 '12	Mar 31 '19
MI-930	Elevators and Escalators	Schindler Elevator Corporation	Dec 18 '12	Jul 31 '13	Aug 02 '13	May 21 '18
FD-140	West O'ahu Station Group Final Design and Support	URS Corporation	Jun 14 '10	Jun 14 '12	Jun 15 '12	Jun 30 '16
FD-240	Farrington Highway Station Group Final Design and Support -2	URS Corporation	Jun 18 '13	Sep 27 '13	Sep 30 '13	Nov 14 '16
FD-340	Kamehameha Highway Station Group Final Design (includes H2/R2 Ramp) and Airport Section Guideway and Utilities Final Design and Support	Anil Verma Associates, Inc.	Jun 28 '11	Nov 16 '12	Nov 26 '12	Jun 14 '17
FD-430	City Center Section Guideway and Utilities Final Design and Support	AECOM Technical Services, Inc.	Jan 26 '11	Dec 22 '11	Jan 05 '12	Jun 30 '17
FD-530	Airport Station Group Final Design and Support	AECOM Technical Services, Inc.	Dec 16 '11	Jul 30 '12	Jul 31 '12	Apr 30 '18
FD-440	Dillingham and Kaka'ako Station Groups "East Side Stations" Final Design and Support	AECOM Technical Services, Inc.	Mar 30 '12	Nov 7 '12	Nov 14 '12	Jul 15 '17
FD-660	Construction Engineering & Inspection West Side Sections	Perkins+Wili	Nov 16 '12	Aug 15 '13	Aug 19 '13	Jul 30 '18
MM-290	Construction Engineering & Inspection East Side Sections	PGH Wong Engineering, Inc.	Jul 26 '13	Jan 9 '14	Jan 09 '14	Mar 01 '19
MM-596	Program Management Support Consultant -2 (PMSC-2)	URS Corporation	Jul 26 '13	Jan 07 '14	Jan 09 '14	Oct 09 '15
MM-901	General Engineering Consultant II (GEC-2) (Final Design and Construction)	InfraConsult LLC	Aug 03 '11	Feb 28 '12	Mar 08 '12	Mar 07 '18
MM-910	General Engineering Consultant III (GEC-3)	Parsons Brinckerhoff	Sep 03 '09	Jun 30 '11	Aug 02 '11	Dec 31 '14
MM-913	Real Estate Consultant	CH2M HILL	Jul 26 '13	Dec 5 '13	Dec 05 '13	Apr 5 '19
MM-936	Real Estate Mapping & Surveying	Paragon Partners, Ltd.	Apr 01 '11	Mar 14 '12	Mar 14 '12	Mar 13 '17
MM-937	Real Estate Mapping & Surveying	R.M. Towill Corporation	Nov 15 '13	May 22 '14	May 23 '14	Dec 30 '17
MM-940	Kāko'o Consultant	Pacific Legacy, Inc.	May 20 '11	Mar 29 '12	Mar 30 '12	Feb 14 '17
MM-950	Owner-Controlled Insurance Program (OCIP) Consultant	Marsh USA, Inc.	Jan 31 '12	May 10 '12	Jun 05 '12	May 09 '17
MM-951	Owner-Controlled Insurance Program (OCIP) Brokerage Services	Aon Risk Services, Inc., of Hawaii	Jun 04 '13	Apr 09 '14	Apr 09 '14	Mar 30 '19
MM-960	Archaeological & Cultural Monitoring	Cultural Surveys Hawai'i	Sep 18 '13	Jan 15 '14	Jan 15 '14	May 20 '18
MM-962	CORE Systems Support	Lea+Elliott, Inc.	Sep 13 '13	Feb 10 '14	Feb 11 '14	Mar 03 '19
MM-964	Safety / Security Support	Lewson & Associates, Inc.	Oct 23 '13	Apr 23 '14	May 01 '14	Dec 14 '17
MM-976	LEED Commissioning Services for the Maintenance and Storage Facility (MSF)	Enovity, Inc.		Oct 6 '10	Oct 07 '10	Jan 14 '16
PA-102	Historic Architecture Design Services	Fung Associates, Inc.	Mar 15 '13	Aug 1 '13	Aug 01 '13	May 01 '16
MM-916	HDOT Traffic Management Coordination Consultant	ICX Transportation Group, Inc.	Aug 15 '11	Jun 5 '12	Jun 12 '12	Jun 11 '17
MM-920	HDOT Design Coordination Consultant - West O'ahu/Farrington Highway	AECOM Technical Services, Inc.		Jun 7 '11	Jun 08 '11	Jun 07 '16
MM-921	HDOT Design Coordination Consultant - Kamehameha Highway Guideway Section	AECOM Technical Services, Inc.		Jun 28 '12	Jun 29 '12	Jun 28 '17
MM-922	HDOT Design Coordination Consultant - Airport and City Center Guideway	SSFM International, Inc.		Jun 8 '12	Jun 12 '12	Jun 11 '17
MM-925	HDOT Labor Master Agreement WOFH	HDOT		Oct 27 '10	Oct 27 '10	Oct 27 '19
MM-945	On-Call Construction Contractor	Royal Contracting Co. Ltd.	Jun 02 '14	Aug 6 '14	Aug 14 '14	Mar 03 '19
MM-946	On-Call Hazardous Materials (HazMat) Removal Contractor	CH2M HILL		Aug 23 '12	Sep 07 '12	Feb 15 '17
MM-947	On-Call Construction Contractor II	Royal Contracting Co. Ltd.	Mar 17 '15	May 21 '15	May 21 '15	May 21 '20
MM-596	Construction Engineering and Inspection (CESI) "II" Contract	Stantec Consulting Services	Mar 25 '15	Sep 10 '15	Sep 14 '15	Dec 31 '19
MM-970	Fare Collection System Technical Support Consultant	CH2M HILL	Mar 24 '15	Oct 22 '15	Oct 23 '15	Dec 31 '19
DBB-365	Ramp H2R2	Royal Contracting Co. Ltd.	Jan 30 '15	May 18 '15	May 18 '15	Jun 17 '16
DBB-605	Airport Section Utilities Construction	Nan, Inc.	Dec 17 '13	Jun 30 '14	Oct 6 '14	Feb 05 '16
DBB-525	Airport Section Guideway Seven (7) Pier Construction Contract	HDCC / CJA JV	Jul 09 '14	Sep 18 '14	Sep 18 '14	Apr 22 '15
DBB-271	Farrington Hwy Stations Group Construction	Hawaiian Dredging Construction Company, Inc.	Dec 19 '14	Jun 22 '15	Aug 17 '15	NTP+ 29 months
DBB-171	West O'ahu Stations Group Construction	Nan, Inc.	Apr 13 '15	Jul 28 '15	Oct 13 '15	NTP+ 29 months

Remaining Contracts						
Contract Code	Contract Name	Advertise Date	Bids Due/Part 1 Proposals Due	RFP Part 2 Proposals Due	Issue NTP	Projected Contract Substantial Completion Date
AP00	Art-in-Transit	May 9 '13	-	-	TBD	TBD
MM-970	Fare Collection System Technical Support Consultant	Mar 24 '15	Apr 27 '15 Jun 10 '15	-	Oct 23 '15	Dec 31 '19
DB-450	Airport Guideway and Stations	Apr 07 '15	Aug 11 '15	Feb 23 '16	Apr 05 '16	NTP + 63 months
	Section 106 Programmatic Agreement Project Manager Kāko'o II	Jun 26 '15	Jul 31 '15	-	TBD	2 years + option to extend up to 4 years
DB-650	City Center Guideway and Stations	Aug 04 '15	Nov 18 '15	TBD	Jun 01 '16	TBD
MI-900	Fare Systems Contract	Aug 11 '15	Nov 13 '15	-	Feb 12 '16	NTP + 120 months + 2 year option
DBB-371	Kamehameha Hwy Stations Group Construction	Aug 10 '15	Nov 17 '15	-	Jan 19 '16	NTP + 32 months
DBB-610	Dillingham Utilities and Roadway	Jan 11 '16	Mar 15 '16	-	Apr 13 '16	Jun 12 '18, NTP + 26 months
DBB-600	East Kapolei and UH West O'ahu Park and Ride Lots	Nov 14 '16	Feb 15 '17	-	Apr 03 '17	Mar 01 '19

Appendix E. Vehicle Carshell Progress Tracker

CAR SHELL SERIAL NUMBER	CENTER ROOF ASSY & WELDING (2 PANEL SET)	CENTER FLOOR ASSY & WELDING (2 PANEL SET)	CENTER ROOF MACHINING	CENTER FLOOR MACHINING (2 PANEL SET)	ROOF ASSY & WELDING	FINAL ROOF ASSY & TEST	UNDER FRAME ASSY & WELDING	FINAL UNDERFRAME ASSY & INSPECTION	UNDER FRAME CLEANING AND PAINTING	CAR SHELL ASSY & WELDING Station #7	CAR SHELL ASSY & WELDING Station #8	CAR SHELL CALIBRATION & TESTING	WATER TEST	PAINTING	INSULATION	FLOORING	FRONT MASK (E CAR ONLY)	CAR SHELL FINAL INSPECTION	COMPLETED CAR SHELL	FAI	CRADLES INSTALLED	DATE SHIPPED FROM RC	DATE OF PORT DEPARTURE	DATE OF ETA TO PITTSBURG	
M/001 (CAR 1)													N/A				N/A	N/A							
E/001 (CAR 2)													N/A				N/A	N/A							
M/002 (CAR 3)													N/A				N/A	PARTIAL							
E/003 (CAR 4)	E/003												N/A				N/A						11/13/2015		
M/005 (CAR 5)													N/A				N/A						11/27/2015		
E/004 (CAR 6)	USED FOR E/2												N/A				N/A						12/18/2015		
E/005 (CAR 7)													N/A				N/A								
E/002 (CAR 8)													N/A				N/A								
M/006 (CAR 10)													N/A				N/A								
M/006 (CAR 11)													N/A				N/A								
M/006 (CAR 12)													N/A				N/A								
E/007 (CAR 13)													N/A				N/A								
M/007 (CAR 14)													N/A				N/A								
E/008 (CAR 15)													N/A				N/A								
M/008 (CAR 16)													N/A				N/A								
E/009													N/A				N/A								
M/009													N/A				N/A								
E/010													N/A				N/A								
M/010													N/A				N/A								
E/011													N/A				N/A								
M/011													N/A				N/A								
E/012													N/A				N/A								
M/012													N/A				N/A								
E/013													N/A				N/A								
M/013													N/A				N/A								
E/014													N/A				N/A								
M/014													N/A				N/A								
E/015													N/A				N/A								
M/015													N/A				N/A								
E/016													N/A				N/A								
M/016													N/A				N/A								
E/017													N/A				N/A								
M/017													N/A				N/A								
E/018													N/A				N/A								
M/018													N/A				N/A								
E/019													N/A				N/A								
M/019													N/A				N/A								
E/020													N/A				N/A								
M/020													N/A				N/A								
E/020													N/A				N/A								

*NOTE: Campbell #2 to FT estandimetric Test

COMPLETE	IN-PROCESS OR NEXT STATION	CHANGED	TEST UNIT	DATES	ESTIMATED TIME OF COMPLETION OR SHIPPING
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Appendix F. 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 10/31/15)						
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	\$63,134	\$199,750
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	\$75,391	
				CT-DTS-1100195 DB-320	\$60,714	\$673,136
Pacific Preferred Contractors Corp.	237310	APA	M	CT-HRT-10H0137 DB-120	\$59,881	\$59,881
PAC Electric	238210	APA	F	CT-HRT-10H0137 DB-120	\$5,388,519	\$5,388,519
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	\$217,880	
				SC-HRT-1400049 MM-962	\$251,920	\$5,853,539
Lawson & Associates	541690	O	F	SC-HRT-11H0131 MM-905	\$740,962	
				SC-DTS-0700001 **** MM-910	\$150,141	
				SC-HRT-1400061 MM-964	\$895,536	\$1,786,639
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	

DBE Participation (9/24/07 to 10/31/15)						
DBE Firm	NAICS Code	Race	Sex	Contract Number	Participation to Date	Total DBE Participation
				SC-DTS-0700001 **** MM-910	\$374,110	\$776,901
212 Harakawa	541430	APA	F	SC-HRT-11H0131 MM-905	\$358,141	
				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	\$26,550	\$26,550
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	\$3,820,005	\$3,820,005
AMR Estimating Services ***	541330	HA	M	SC-HRT-11H0131 MM-905	\$135,281	
				SC-HRT-1400027 MM-913	\$716,682	\$851,963
The Nakoa 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	
				CT-HRT-1200106 DBOM-920	\$20,142	\$47,656
Element Environmental	541620	APA	M	SC-HRT-1400050 MM-290	\$674,556	\$674,556
PSC Consultants	541330	APA	M	SC-HRT-1400050 MM-290	\$188,284	
				SC-HRT-1400051 MM-595	\$6,063	\$194,347
Bow Construction Management	541330	APA	M	SC-HRT-1400050 MM-290	\$118,922	\$118,922
FIC, LLC	541611	APA	M	SC-HRT-1400051 MM-595	\$1,099,252	\$1,099,252
The Solis Group	541620	O	F	SC-HRT-1400027 MM-913	\$970,997	\$970,997
Island Hauling	484110	APA	M	CT-HRT-1000449 DB-200	\$164,970	\$164,970
ADS System Safety Consulting *****	541620	BA	M	SC-HRT-1400061 MM-964	\$1,240,014	\$1,240,014
Dovetail Consulting	541330	BA	F	MOU-11-SO-1 MM-930	\$783,335	\$783,335
Total						\$28,555,856

* 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 G. Risk

Risk by Contract Package				
Contract Packages	Sept. 2015 # of Risks	October 2015 Update		
		Total # of Risks	New Risks	Deleted Risks
Project Wide	4	4	0	0
WOFH Guideway	21	21	0	0
Pearl Highlands Garage	3	3	0	0
Maintenance and Storage Facility	4	4	0	0
Kamehameha Highway Guideway	16	16	0	0
Core Systems Contract	8	7	0	1
Elevator/Escalator	4	4	0	0
Airport Utilities	2	5	3	0
Farrington Highway Stations	4	4	1	1
H2R2 Ramp	2	2	0	0
West Oahu Stations	5	5	1	1
Kam. Highway Stations	7	7	0	0
Airport Guideway & Stations	0	26	26	0
Airport Guideway	17	0	0	17
City Center Guideway	26	25	0	1
Airport Section Stations	11	0	0	11
City Center Section Stations	14	9	0	5
Total	148	142	31	37

Notes of Significance:

The Airport Guideway and Stations Contracts have been combined under the Airport Guideway and Stations contract.

The Airport Guideway and the Airport Stations Group will not be reported in the future, after the RFP Phase 2 has been issued.

The City Center Stations duplicates with City Center Guideway have been deleted. The metrics will combined in the future.

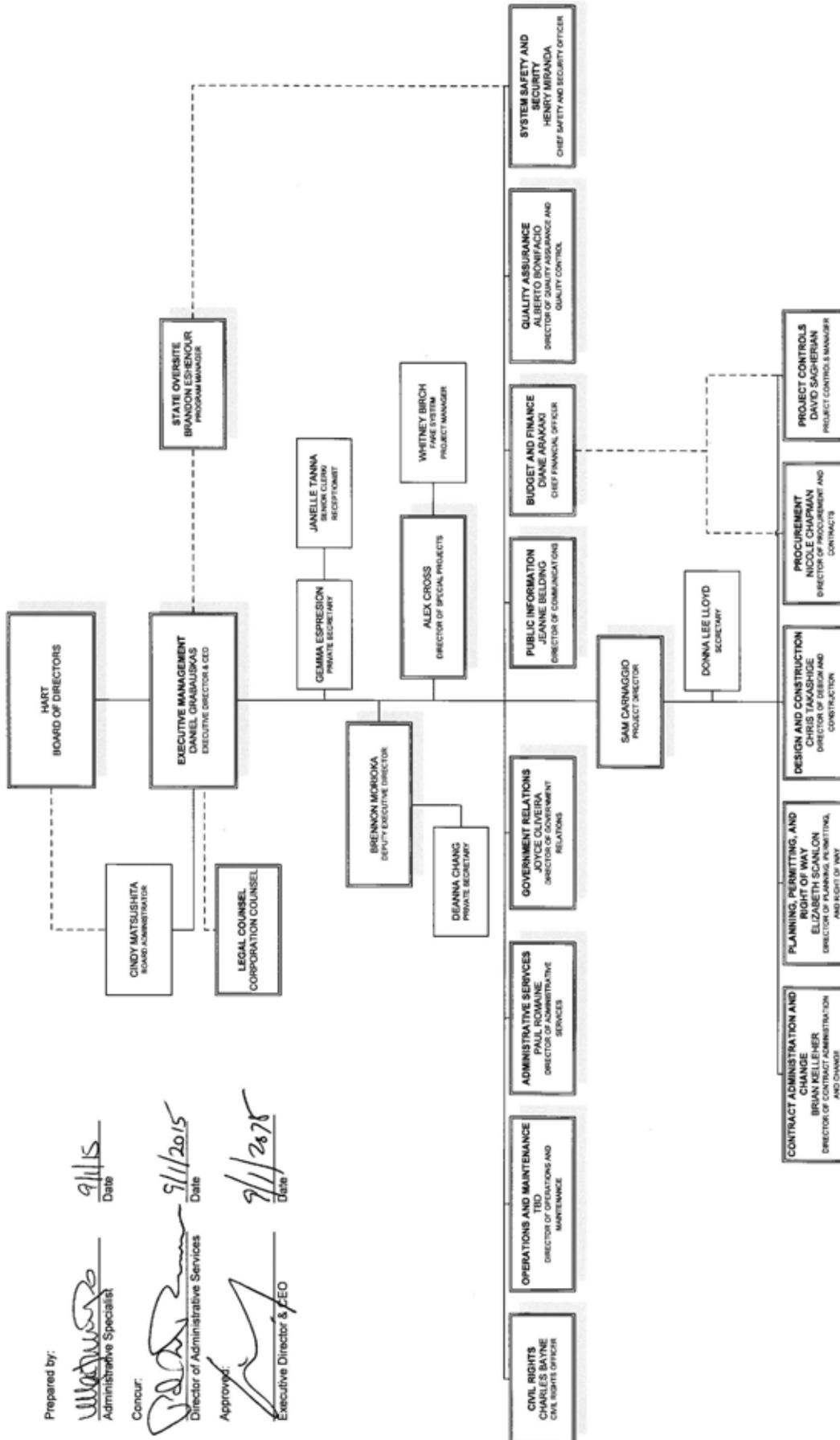
Comparison of Risk Ratings								
Contract Package/Section	September 2015 # of Risks				October 2015 Update # of Risks			
	Total	High	Medium	Low	Total	High	Medium	Low
Project Wide	4	1	2	1	4	1	2	1
WOFH Guideway	21	3	13	5	21	3	13	5
Pearl Highlands Garage	3	0	3	0	3	0	3	0
Maintenance and Storage Facility	4	0	1	3	4	0	1	3
Kamehameha Highway Guideway	16	2	9	5	16	2	9	5
Core Systems Contract	8	0	5	3	7	0	4	3
Elevator/Escalator	4	2	2	0	4	2	2	0
Airport Utilities	2	0	2	0	5	1	4	0
Farrington Highway Stations	4	0	4	0	4	0	4	0
H2R2 Ramp	2	0	2	0	2	0	2	0
West Oahu Stations	5	0	5	0	5	0	5	0
Kam. Highway Stations	7	1	2	4	7	1	2	4
Airport Guideway & Stations					26	5	19	2
Airport Guideway	17	5	11	1				
City Center Guideway	26	12	11	3	25	11	11	3
Airport Stations	11	2	7	2				
City Center Stations	14	2	10	2	9	1	8	0
Total	148	30	89	29	142	27	89	26

Note: The Airport Guideway and Airport Stations Group were combined in the Risk Registry this month.

Appendix H. Project Organization Chart

September 1, 2015

HONOLULU AUTHORITY FOR RAPID TRANSPORTATION



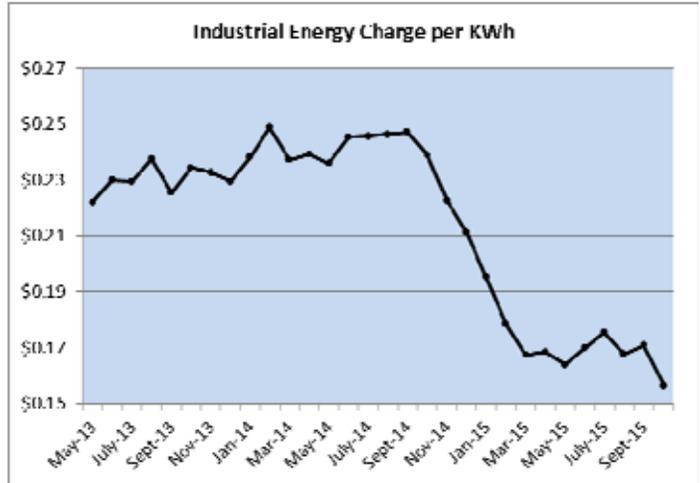
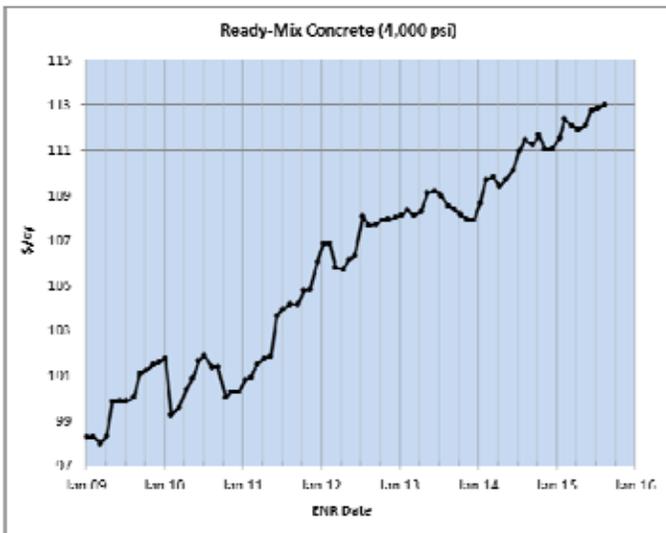
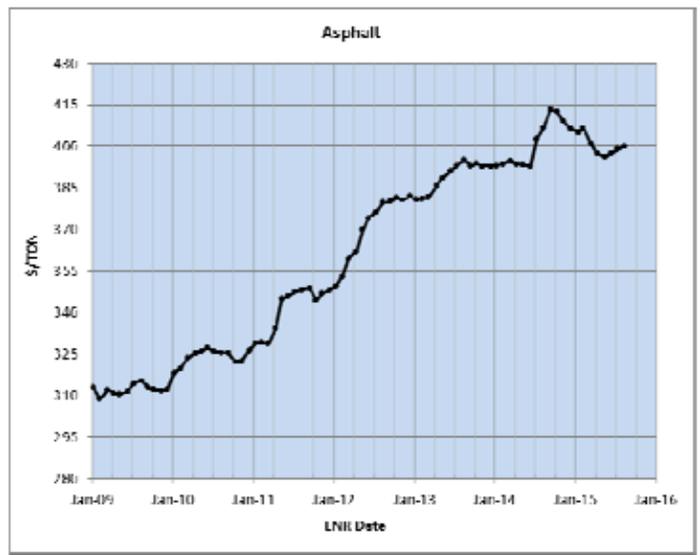
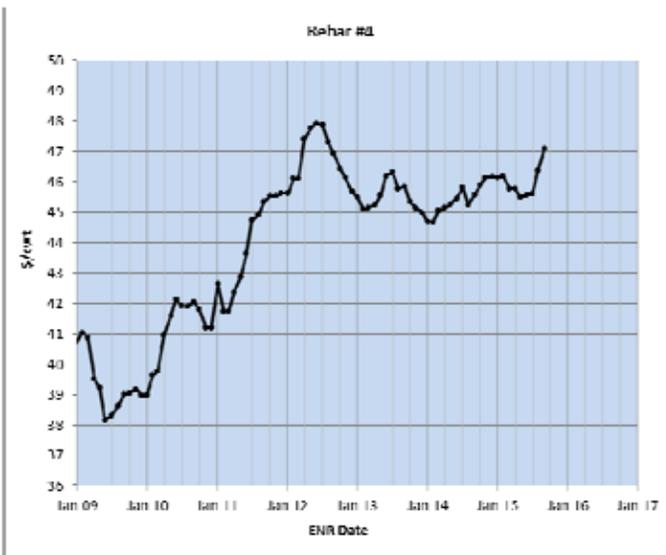
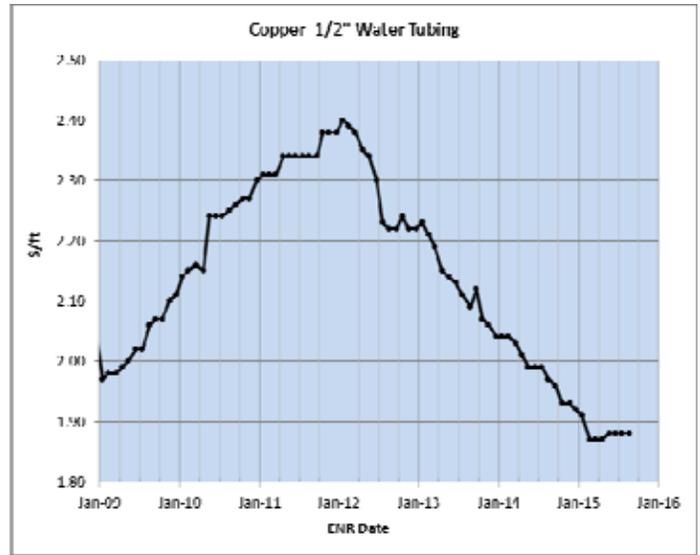
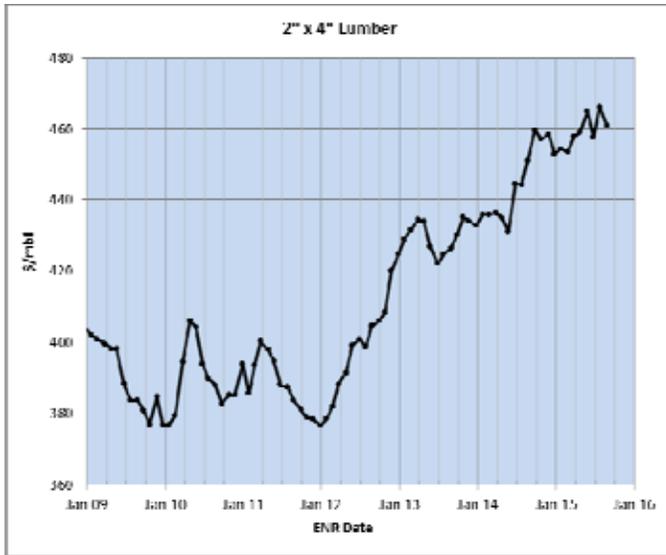
Prepared by:  Administrative Specialist Date: 9/1/15

Concur:  Director of Administrative Services Date: 9/1/2015

Approved:  Executive Director & CEO Date: 9/1/2015

Appendix I. 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 J. 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.