

HONOLULU RAIL TRANSIT PROJECT



November 2015 MONTHLY PROGRESS REPORT

HART

HONOLULU AUTHORITY for RAPID TRANSPORTATION

www.HonoluluTransit.org

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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 Waianae.

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	DLIR	Hawai'i Department of Labor and Industrial Relations
ACHP	Advisory Council on Historic Preservation	DLNR	Department of Land and Natural Resources
ACS	Access Control System	DOE	Department of Education
AFE	Authorized for Expenditure	DOH	Department of Health
AGS	Airport Guideway and Stations	DOL	Department of Labor
AHJV	Ansaldo Honolulu Joint Venture	DPM	Deputy Project Managers
AIS	Archaeological Inventory Survey	DPP	Department of Planning and Permitting
APTA	American Public Transportation Association	DPR	Department of Parks and Recreation
ARRA	American Recovery and Reinvestment Act	DPS	Department of Public Safety
ASG	Airport Station Group	DS	Downstream
ASU	Airport Section Utilities	DTS	Department of Transportation Services
ATC	Automated Train Control	DVT	Design Verification Test
ATO	Automated Train Operation	ECP	Environmental Compliance Plan
AVA	Anil Verma Associates, Inc.	E/E	Elevator/Escalator
BA	Buy America	EK	East Kapolei
BAC	Buy America Compliance	EMC	Electromagnetic Compatibility
BACM	Buy America Compliance Matrix	EMF	Electromagnetic Forces
BAFO	Best and Final Offer	EMI	Electromagnetic Interference
BCS	Balanced Cantilever System	EMP	Environmental Management Plan
BFS	Budget and Fiscal Services	EOR	Engineer of Record
BLS	Bureau of Labor Statistics	EOS	Electrically Operated Switches
BMP	Best Management Practice	ESA	Engineering Services Agreement
BOD	Board of Directors	FAA	Federal Aviation Administration
BUE	Bottom-Up Estimate	FAI	First Article Inspections
CAM	Construction Access Milestone	FAT	Factory Acceptance Tests
CAR	Corrective Actions	FD	Final Design
CCGS	City Center Guideway and Stations	FDAS	Fire Detection Alarm System
CCO	Contract Change Order	FDC	Field Design Change
CCTV	Closed Circuit Television	FEIS	Final Environmental Impact Statement
CDC	Compendium of Design Criteria	FFC	Fixed Facility Contractors
CE&I	Construction Engineering and Inspection	FFGA	Full Funding Grant Agreement
CEL	Certifiable Elements List	FHSG	Farrington Highway Station Group
CIC	Communication Interface Cabinet	FLSWG	Fire Life Safety Working Group
CIL	Certifiable Items List	FOCN	Fiber Optic Communication Network
CM	Construction Manager	FTA	Federal Transit Administration
CMP	Corrugated Metal Pipe	FTE	Full-Time Equivalent
CMS	Contract Management System	FWS	Fish and Wildlife Service
CMU	Concrete Masonry Unit	GAT	Great Aleutian Tsunami
CNMMP	Construction Noise Mitigation and Monitoring Plan	GBS	Gap Breaker Station
COI	Conflict of Interest	GDR	Geotechnical Data Report
COMMs	Communications	GEC	General Engineering Consultant
CONRAC	Consolidated Rental Car Facility	GET	General Excise Tax
COR	Corporation Counsel	GIS	Geographic Information System
CP	Consulting Party	GSA	General Services Administration
CPM	Critical Path Method	GT	General Terms
CPP	Contract Packaging Plan	HA	Hazard Analysis
CSC	Core Systems Contract	HABS	Historic American Buildings Survey
CSSC	Construction Specification Conformance Checklists	HAER	Historic American Engineering Record
CSL	Cross Hole Sonic Logging	HALS	Historic American Landscape Survey
CSOC	Core Systems Oversight Consultant	HART	Honolulu Authority for Rapid Transportation
CSSP	Construction Safety & Security Plan	HCC	Honolulu Community College
CTS	Communications Transmission System	HCDA	Hawai'i Community Development Authority
CWRM	Commission on Water Resource Management	HCSD	Hawai'i Capital Special District
CZM	Coastal Zone Management	HDCC	Hawaiian Dredging Construction Company
DAGS	Department of Accounting & General Services	HDOE	Hawai'i Department of Education
DB	Design-Build	HDOH	Hawai'i Department of Health
DBB	Design-Bid-Build	HDOT	Hawai'i Department of Transportation
DBE	Disadvantaged Business Enterprise	HDPE	High-density polyethylene
DBEDT	Department of Business, Economic Development and Tourism	HECO	Hawaiian Electric Company
DBOM	Design-Build-Operate-Maintain	HFD	Honolulu Fire Department
DCAB	Disability and Communication Access Board	HHF	Historic Hawai'i Foundation
DCCC	Design Criteria Conformance Checklists	HHPRB	Hawai'i Historic Places Review Board
DCN	Design Change Notice	HIE	Hawaii Independent Energy
DDC	Department of Design and Construction	HP	Historic Preservation
DES	Department of Environmental Services	HPC	Historic Preservation Committee
DFIM	Design Furnish Install Maintain	HPCA	Historic Preservation Certification Application
DFM	Department of Facility Maintenance	HPD	Honolulu Police Department
DHHL	Department of Hawaiian Homelands	HPF	Historic Preservation Fund
DHR	Department of Human Resources	HRHP	Hawai'i Register of Historic Places
DIT	Department of Information Technology	H RTP	Honolulu Rail Transit Project
DKSG	Dillingham and Kaka'ako Station Group	HTI	Hawaiian Telcom

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

TVA	Threat and Vulnerability Analysis	WA	Work Area
TVM	Ticket Vending Machine	WHS	Waipahu High School
TWF	Train Wash Facility	WL	West Loch
UCA	Utility Construction Agreement	WOEDA	West Oahu Economic Development Association
UFCRA	Utility Facilities Relocation and Cost Reimbursement Agreement	WOFH	West O'ahu/Farrington Highway
UH	University of Hawai'i	WOSG	West O'ahu Station Group
UHWO	University of Hawai'i West O'ahu	WSS	West Side Stations
UL	Underwriters Laboratories	WSSG	West Side Station Group
UPS	Uninterrupted Power Supply	WTB	Wheel Truing Building
VRCS	Voice Radio Communication System	WYL	West Yard Lead
USACE	U.S. Army Corps of Engineers	YCB	Yard Control Bungalow
USDOT	U.S. Department of Transportation	YOE	Year of Expenditure
VE	Value Engineering		
VRF	Variable Refrigerant Flow		

PROJECT MAP



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 15-16.

Project Funding

- The General Excise Tax (GET) surcharge revenue amount received has increased. Please see pages 17-18.
- The total amount of cash received has increased. Please see pages 17-18.

Project Revenue and Costs

- The ending cash balance amount has increased. Please see page 19.

Contract Status

- Core Systems Contract (CSC)
 - On Nov. 2, 2015, AnsaldoBreda became a part of the Hitachi Group Company and is now Hitachi Rail Italy (HRI). Please see page 23.
 - On Nov. 3, 2015, Ansaldo STS became a part of the Hitachi Group Company. Please see page 23.
 - The current contract value has increased. Please see page 26.
- West O'ahu Station Group (WOSG)
 - A contract page for the West O'ahu Station Group construction contract has been included, and the WOSG design contract page has been removed. Please see pages 37-38.
- Farrington Highway Station Group (FHSG)
 - The contract substantial completion date has been corrected. Please see page 39.
 - A section for "Quality Management" has been added. Please see page 40.
- Ramp H2R2
 - The contract substantial completion date has been corrected. Please see page 49.
 - The projected substantial completion date has shifted to a later date. Please see page 49.
 - A section for "Quality Management" has been added. Please see page 50.
- Kamehameha Highway Station Group (KHSG)
 - The current contract value has increased. Please see page 51.
 - The percentage complete has been adjusted. Please see page 51.
- Airport Section Utilities Construction
 - The projected substantial completion date has shifted to a later date. Please see page 55.
- Airport Station Group
 - The current contract value has decreased. Please see page 59.
 - The percentage complete has been adjusted. Please see page 59.
- City Center Section Guideway and Utilities
 - The incurred-to-date amount has decreased. Please see page 61.
 - The percentage complete has been adjusted. Please see page 61.
- Construction Engineering & Inspection East Side Sections
 - The substantial completion date has been updated. Please see page 68.

- On-Call Construction Contractor
 - The current contract value has increased. Please see page 71.

Utility Agreements

- The Utility Agreements Status table has been updated to reflect outstanding agreements, pending amendments, and any applicable MOUs. Please see page 75-76.

Right-of-Way

- One partial acquisition has been completed in the City Center section. Please see page 77.
- The Third-Party Agreements table has been updated to group together different types of agreements. Please see pages 80-81.

Risk Management

- The total number of risks in the risk register has increased. Please see pages 96-100 and 125.

Staffing

- The actual number of employees has increased. Please see page 103.

Appendix D. Procurement and Contract Status

- The Independent Financial Auditor "II" Contract has been added to the Remaining Contracts table. Please see page 120.

Appendix I. Indices on Key Commodities

- The source for the graph for "Industrial Energy Charge per KWh" has been changed to reflect HECO's Schedule P rate, which is the rate that HECO indicates HART will be subject to. Please see page 127.

1 EXECUTIVE SUMMARY

KEY ACTIVITIES THIS MONTH

Project Overview

Construction of the Honolulu rail system continues to progress at a steady pace. More than 5 miles of the elevated guideway has been built, with crews having completed more than 250 columns and more than 200 spans stressed.

Between east Kapolei and into Waipahu, nearly all of the underground foundations are in place. Along Kamehameha Highway, more than a dozen columns have been built. Work on foundations and utility relocation work continues in other areas along the corridor.



At the Maintenance and Storage Facility, work is more than 85 percent complete. Most of the buildings on the 43-acre site in Waipahu are scheduled for completion by the end of the year. The base yard should be done early next year, in time for the delivery of HART's first rail cars.

Kamehameha Highway Stations Group Construction Bid Results

Four construction companies have submitted bids to build the three rail stations at Pearl Highlands, Pearlridge and Aloha Stadium.

Watts Constructors had the apparent low bid of \$112,724,335. Other companies that submitted bids were Nan, Inc., Hawaiian Dredging Construction Company and Hensel Phelps. HART is now in the process of evaluating the bids.



The three stations in the Pearl City area were originally included in a nine-station package that came in well over HART's budgeted projections. HART cancelled that solicitation. In repackaging the station construction work into three smaller packages, HART was able to save more than \$40 million.

Cost:

Project Costs Summary Through Oct. 30, 2015		
	Current Budget (\$M)	Incurred To Date (\$M)
Project Budget	\$4,459.6	\$1,772.7
Project Contingency	\$489.0	\$0.5
Finance Charges*	\$173.1	\$0.0
TOTAL	\$5,121.7	\$1,773.2

* \$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 Oct. 30, 2015				
	Actual		Early Plan	Late Plan
Overall Project Progress	40.6%		69.2%	61.0%
Overall Construction Progress	32.2%		62.6%	53.4%
Overall Design Progress	87.3%		99.6%	98.2%
Overall Utilities Progress	39.5%		85.6%	73.0%

*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 the status of the program budget and schedule to the Board of Directors at the October and November monthly meetings. Forecasts indicated 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. AHJV is on site finalizing the Yard Control Bungalow (YCB) roof structures and beginning installation of lighting fixtures and HVAC units. AHJV is also finalizing the fire detection wiring at the MSF OSB and MOW buildings. Installation activities are underway for the first four passenger vehicle carshells. (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, with bid opening occurring Nov. 17, and award planned 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 was measured against. The most recently submitted progress schedule, through October 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 and it is anticipated that a Contract Change Order is required to accept the revised baseline schedule and updated substantial completion date. (See Section 4.2.A for details)

Maintenance and Storage Facility (MSF) Contract

The contractor is continuing with preparation for car delivery anticipated in spring of 2016. Coordination with the abutting WOFH mainline contractor continues for completion of site access in the east and west yards, including rail, vehicular access, and utility interconnection. HVAC installation, painting, and finishing are continuing for the Operations and Servicing Building (OSB), Maintenance of Way (MOW) and Wheel Truing Building (WTB), as well as mechanical, electrical and plumbing installations. Construction of slab on grade is complete in the OSB shop area. Concrete Masonry Unit (CMU) construction is complete and structural steel erection commenced for the Train Wash Facility. Installation of rail is continuing for the tracks heading toward the Train Wash Facility, and the MOW tracks, subballast and ballast installation is ongoing for the West Yard and East Yard Lead tracks. (See Section 4.2.D for details)

Kamehameha Highway Guideway (KHG) Contract

Construction of columns has been completed from just west of Waimano Home Road to the WOFH contract, with the exception of the C-piers at Acacia that are currently being constructed. 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 twelve months behind schedule, which includes the guideway structure completion in April 2017 and the remaining roadway civil work being completed by September 2017. (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)

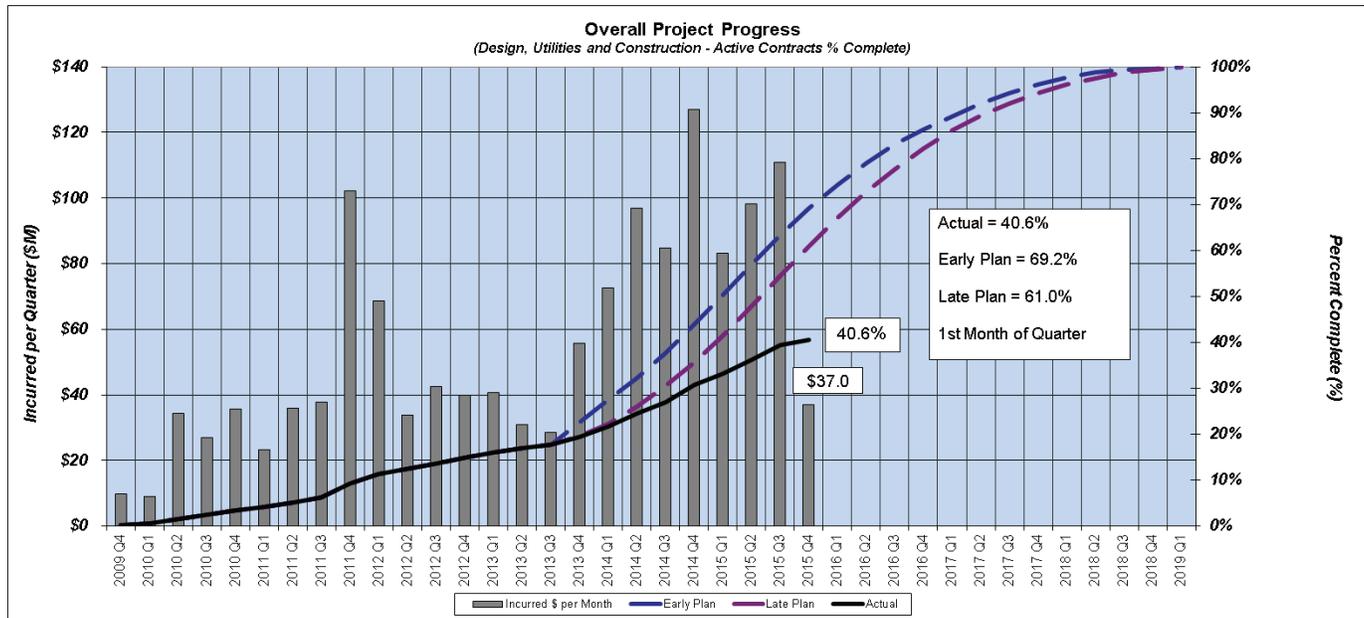
2 OVERALL PROJECT PROGRESS AND FINANCIALS

2.1 Project Progress (data as of Oct. 30, 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.

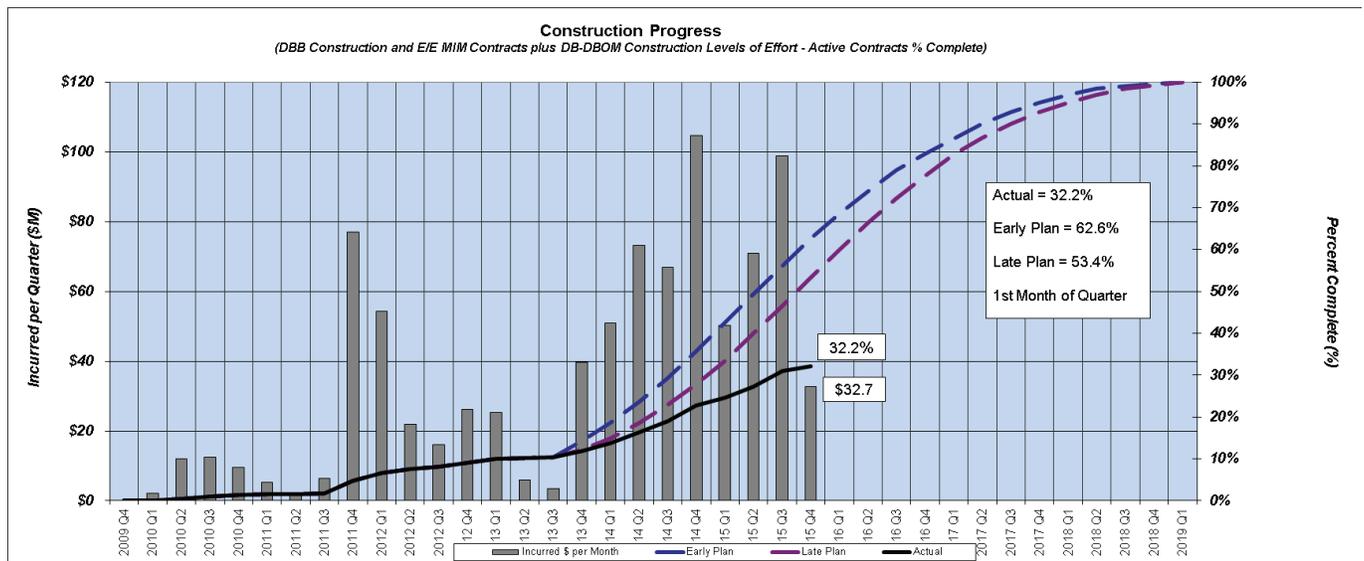
- Note:
- Actual = Actual cost of work performed, based on invoiced-to-date amount.
 - Early Plan = Earliest dates activities can begin and finish, based on logic and durations used in the schedule.
 - Late Plan = Latest dates activities can begin and finish and not have an impact on completion date,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

Figure 1. Overall Project Progress (% Complete)



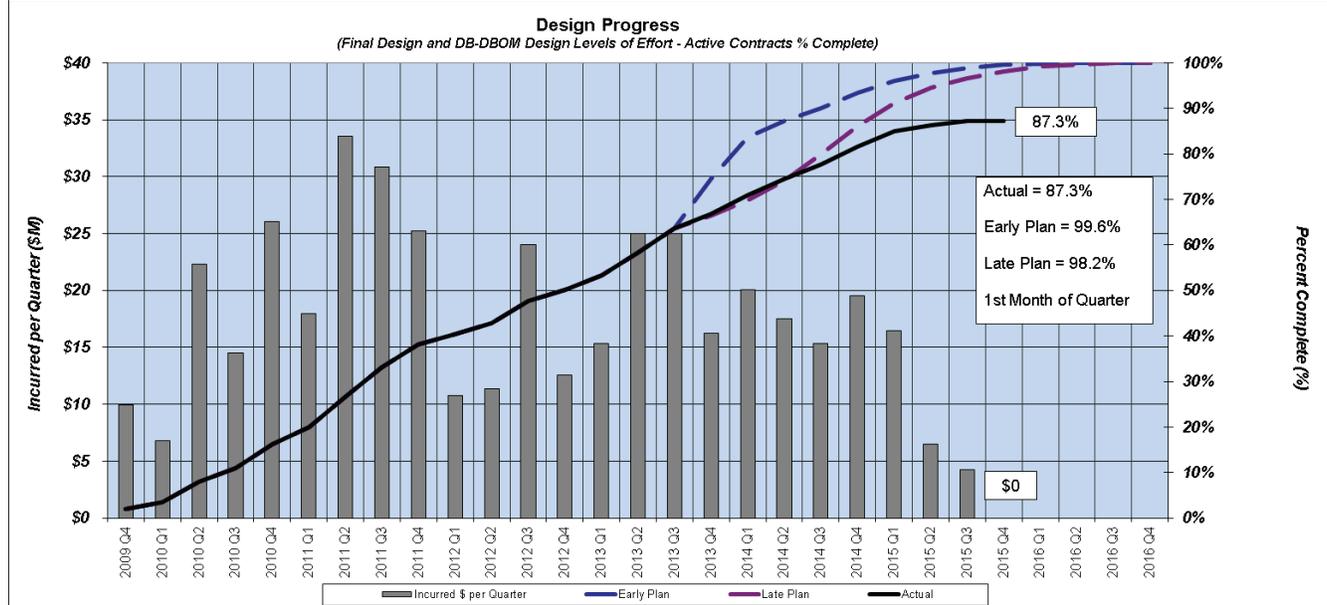
At present “overall” project progress is based on the weighted value progress of the individual construction and design contracts (Design-Build [DB], Design-Bid-Build [DBB], Design-Build-Operate-Maintain [DBOM], Elevator/Escalator Manufacture-Install-Test-Maintain [MIM], Final Design [FD] and DB-DBOM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



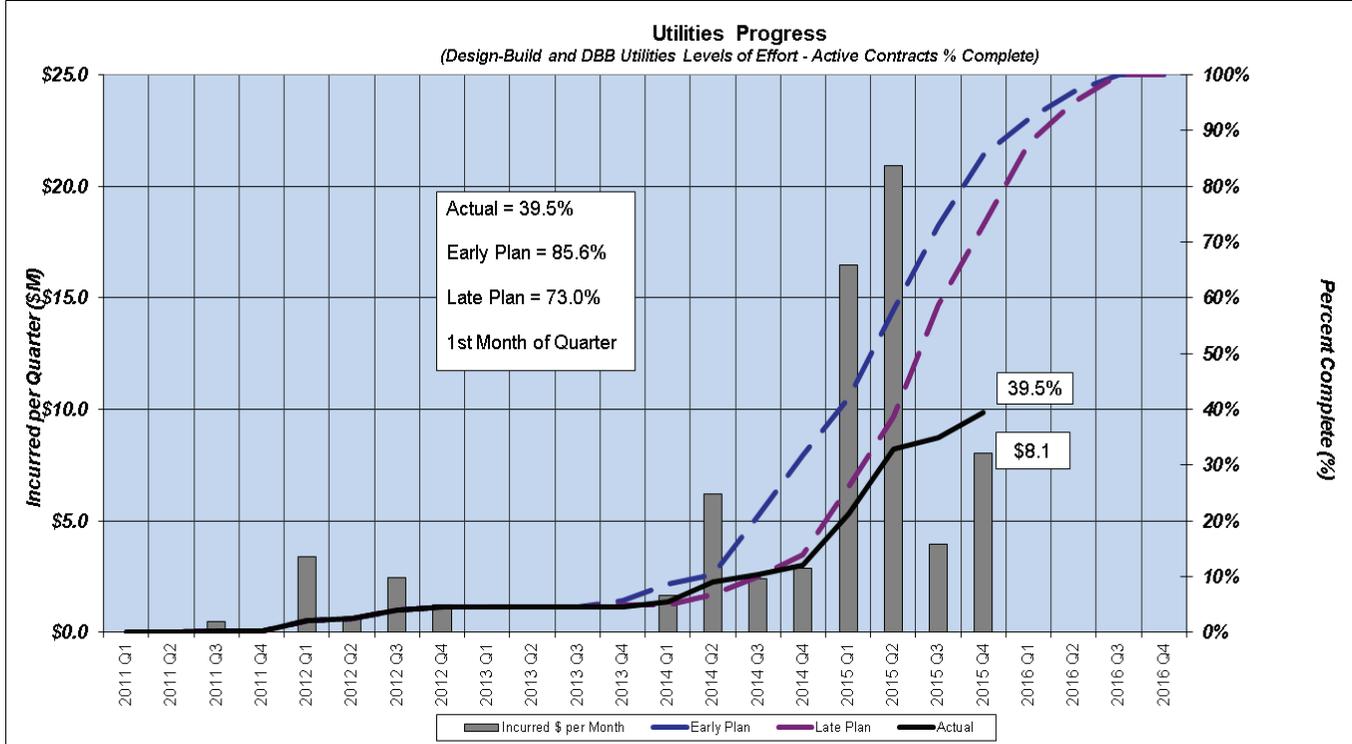
Overall construction progress is based on the weighted average progress of the individual DBB and E/E MIM construction contracts and the DB-DBOM construction levels of effort, not including consultant construction engineering and inspection (CE&I) services.

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 Oct. 30, 2015)

*Total Incurred Cost = \$1,773.2M
(previous report = \$1,727.2M)*

- FFGA Project Budget = **\$5,121.7M**
 - Current Project Budget - \$4,459.6M
 - Current Project Contingency - \$489.0M
 - Project Finance Charges - \$173.1M

- HART presented the status of the program budget and schedule to the Board of Directors at the October and November monthly meetings. Forecasts indicated an increase to project costs and a completion in 2021.

- Total Incurred Cost = **\$1,773.2M** (39.8% of current project budget)
 - October 2015 Incurred Cost = \$46M

2.3 Project Contingency (data as of Oct. 30, 2015)

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

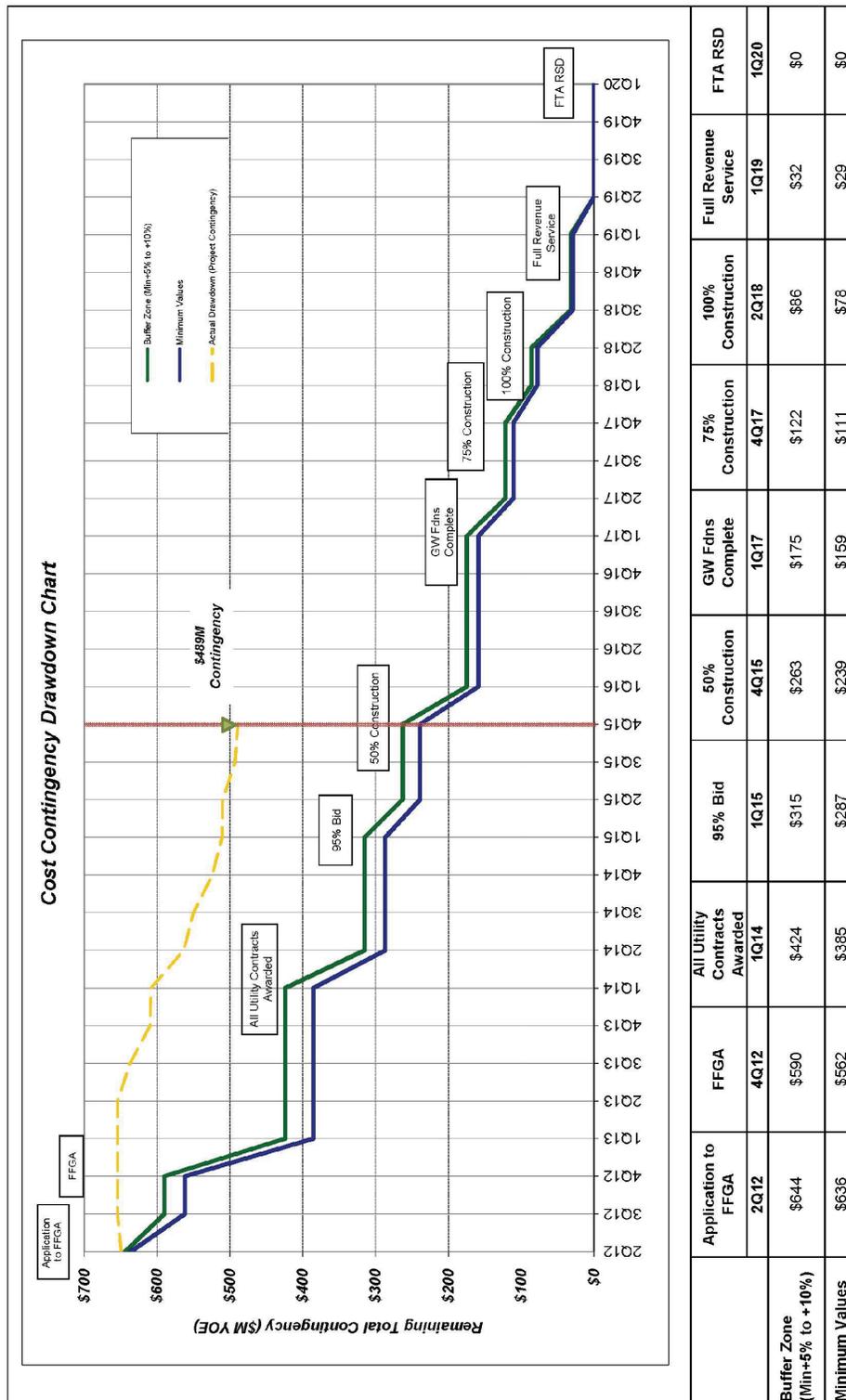
*Current Contingency Balance = \$489.0M
(previous report = \$492.8M)*

- Current Project Contingency Balance = **\$489.0M**
 - Contingency drawdown to date – \$154.6M (24% of baseline project contingency budget)
 - \$3.8M contingency drawdown during October 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 August 2015 Report	90.01 - 90.03	(\$142.9)
Contingency drawdown September 2015 Report	90.01 - 90.03	(\$7.8)
Contingency drawdown October 2015 Report	90.01 - 90.03	(\$0.1)
Contingency drawdown November 2015 Report	90.01 - 90.03	(\$3.8)
Contingency drawdown to date	90.01 - 90.03	(\$154.6)
Current FFGA Project Contingency	90.01 - 90.03	\$489.0

Figure 6. Draft Cost Contingency Drawdown Chart



Data as of 10/30/15 - Oct 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 Oct. 30, 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	1208	1,586
Total	385	5,356	1,959	2,046

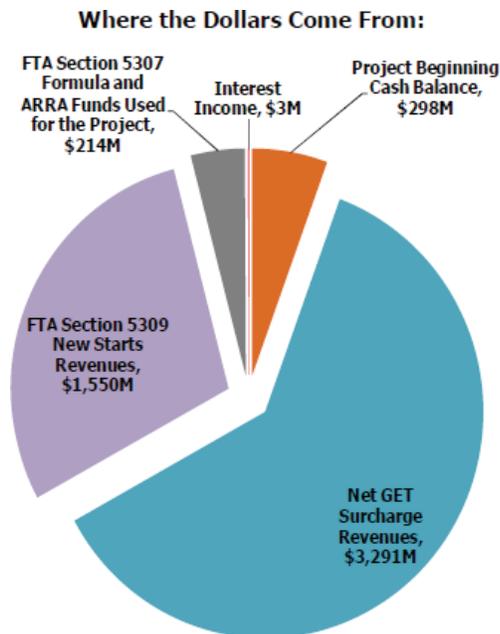
¹ GET and Interest Income received during Pre-Preliminary Engineering (pre-PE) phase prior to entry into PE

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 Oct. 30, 2015)
 - \$1,208M = amount received since the Project’s entry into FTA’s Preliminary Engineering phase of project development.
 - \$1,239M = Projected Net GET Surcharge Revenue for FYs 2010-2Q 2016, as stated in FFGA Financial Plan (Table A-1 *Capital Plan Cash Flows*)
 - GET receipts are currently running 2.5% short of projections to date, or \$31M behind.
 - \$31M shortfall is approximately 0.9% of the total GET surcharge projections per the FFGA Financial Plan of \$3.291B.
 - \$65M = GET surcharge received in October 2015.
- Full Funding Grant Agreement (FFGA)
 - \$0M = New Starts drawdown processed and received through Oct. 30, 2015.
 - \$25.4M = New Start drawdown submitted to City BFS in October 2015, but \$0 funds have been received through Oct. 30, 2015.
- The \$5307 funds for the Project, per the Financial Plan, are \$210M.
- HART presented the status of the program budget and schedule to the Board of Directors at the October and November monthly meetings. Forecasts indicated an increase to project costs and a completion in 2021. The financial plan is currently being updated.

Total Cash Received Since PE = \$1,959M
(previous report = \$1,894M)

GET Received Since PE = \$1,208M
(previous report = \$1,143M)

GET Received Since 2007 = \$1,586M
(previous report = \$1,521M)

Figure 9. New Starts Drawdown by Federal Fiscal Year (data date as of Oct. 30, 2015, per the FTA TEAM website)

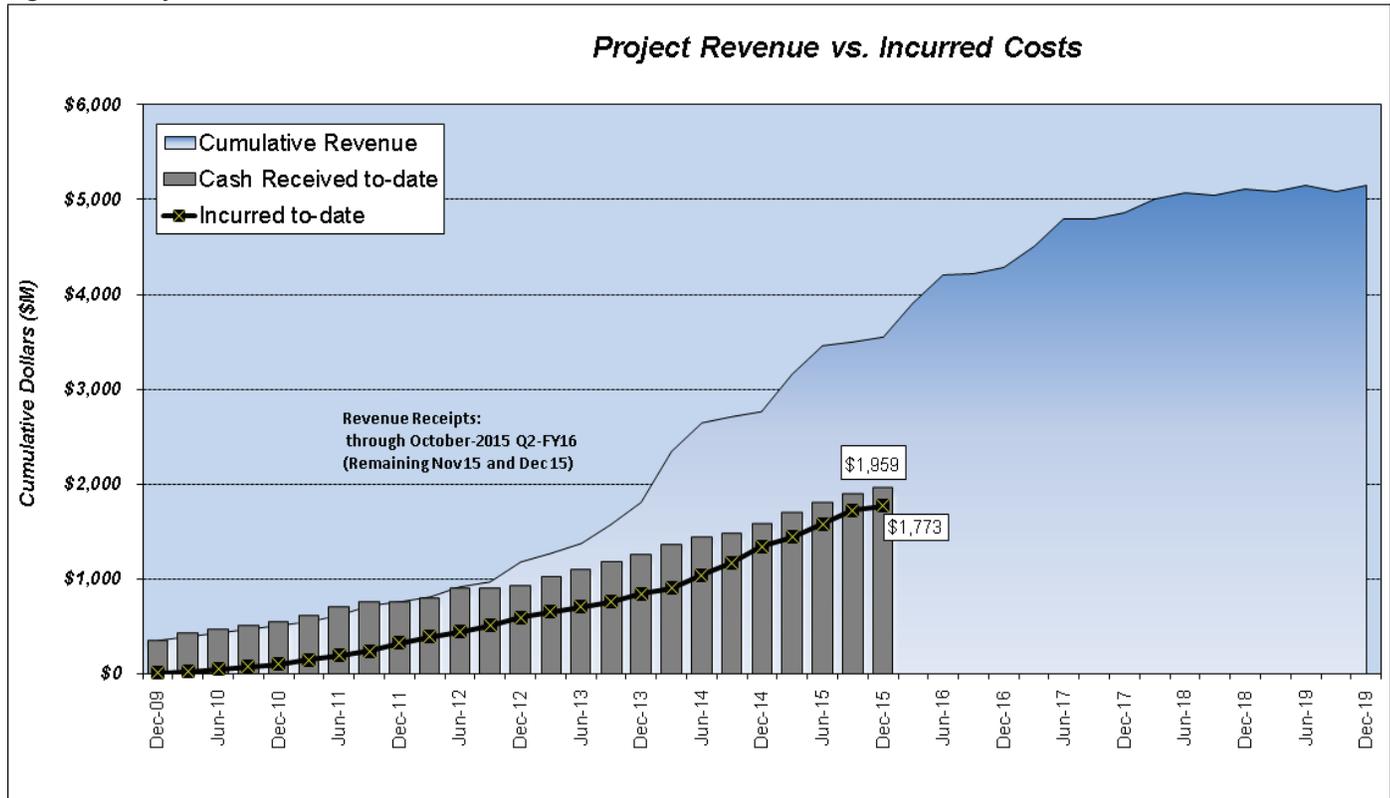
New Starts Grant Information by Federal Fiscal Year				
Federal Fiscal Year Allocation	Obligated Amounts	Actual Drawdown Amounts to Date	Available Balance	FFGA Base Case Cash flow
2008	\$15,190,000	\$15,190,000	\$0	
2009	\$19,800,000	\$19,800,000	\$0	
2010	\$30,000,000	\$30,000,000	\$0	
2011	\$55,000,000	\$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 Oct. 30, 2015)

Ending Cash Balance 10/31/15 = \$265.5M
(previous report = \$232.1M)

Figure 10. Project Revenue versus Incurred Costs



Planned Funding levels as per the June 2012 FFGA Finance Plan
Data date for Revenue & Incurred Cost = Oct. 30, 2015

Figure 11. Cash Balance Summary

OCTOBER 2015 CASH BALANCE SUMMARY		
	OCTOBER	FY16 YTD Cumulative
Beginning Cash Balance 10/01/15	232,102,828	293,010,823
Expenditures:		
Operating Expenditures	(931,679)	(4,214,255)
Capital Expenditures	(30,499,987)	(176,043,016)
Expenditures Total:	(31,431,665)	(180,257,271)
Receipts:		
GET Surcharge	64,820,862	117,151,246
FTA Drawdown	0	35,503,048
Interest	17,781	60,204
Other (rental, refunds, copy fees, etc.)	25,250	67,007
Receipts Total:	64,863,893	152,781,505
Ending Cash Balance 10/31/15	265,535,057	265,535,057

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

3 SCHEDULE

(data as of Oct. 30, 2015)

OVERVIEW

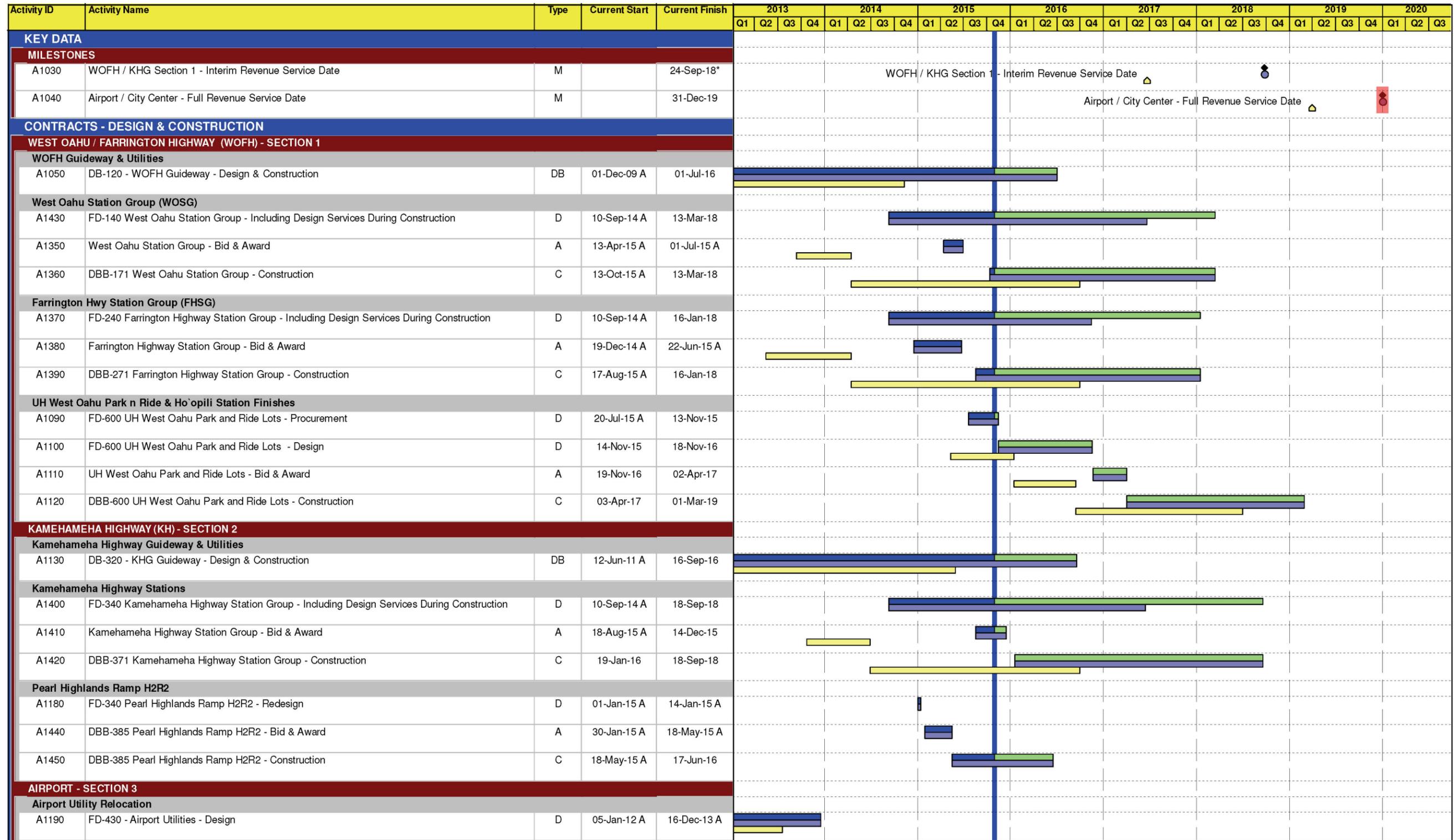
- HART presented the status of the program budget and schedule to the Board of Directors at the October and November monthly meetings. Forecasts indicated an increase to project costs and a completion in 2021.
- The Master Program Summary Schedule reflects currently approved schedule end dates for contracts 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. The Pearl Highland Transit Garage schedule is being drafted and will be included in next month's schedule.
- 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 construction contractor progress is behind approved planned schedules for the LCC station area civil and structural work.
- 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).



- FFGA Baseline
- September 2015 Update
- Remaining Work
- Actual Work
- FFGA Baseline Milestone
- September 2015 Update Milestone
- Milestone

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Page 1 of 2

Honolulu Rail Transit Project
October 2015 Update
 As of: 30-Oct-15

MPS Summary
Design & Construction Contracts

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 arrived in California.
- Final Assembly of Train 1 continues to ramp up with cabling and raceway and subcomponent assembly work.
- Progressing with sub-system testing and design verification activities.
- Yard Control Bungalow construction is underway – Construction of the walls and roof slab is complete.
- Traction Power Cable installation continues; currently installing power feeds to the MSF TPSS.
- On Nov. 2, 2015, AnsaldoBreda became a part of the Hitachi Group Company and is now Hitachi Rail Italy (HRI).
- On Nov. 3, 2015, Ansaldo STS became a part of the Hitachi Group Company.

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

- Received a competitive number of proposals on Nov. 13, 2015, for the Fare Systems DBOM contract. It is anticipated that the top three will be selected through an interagency evaluation committee in early December. Award is anticipated end of January 2016.
- COR continues to review the Operations & Maintenance Memorandum of Understanding with Budget and Fiscal Services (BFS).

KEY ISSUES

- O&M MOU needs to be signed by all parties prior to award of Fare Systems contract.
- Developing a Priority List of Offerors from the proposals received on Nov. 13, 2015.

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 was completed in October 2015. KIWC has begun with the installation of the portable units in November.
- Balanced Cantilever System (BCS) Form Advancement – BCS construction is progressing and all pier tables are complete. Segment casting and stressing is proceeding in both eastward and westward directions from Piers 255 and 256. All segments for Pier Table 253 and 254 have been completed.
- Span by Span Advancement – Heading #2 at Waipahu High School, Work Area 4, is currently progressing westbound. Eastbound 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 spans have been erected heading 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)
- Project Close Out Coordination (for additional detail, see 4.2.A Key Issues)

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. Permanent power has been extended from the main disconnect to the OSB and MOW distribution switchgear.
- Contractor completed CMU wall construction for the Train Wash Facility and commenced structural steel.
- 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 MOW as well as the East Yard Lead and West Yard lead tracks.
- The contractor completed the wheel lathe and appurtenant parts in the WTB.
- Siding installation is complete for the OSB and MOW.
- Painting, HVAC, and finishing are continuing for the OSB, MOW and WTB, as well as mechanical, electrical and plumbing installations. Construction of slab on grade is complete 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 completion 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 working on KHG. Over 45% of the KHG shafts have been completed. Drilled shafts are being constructed ahead of the planned production rates in the September 2015 Schedule, which KIWC has submitted with a Request for Change (RFC) to contract substantial completion date.
- 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 installing all BCS shafts including Pier 306 up and down station and KIWC has started working on Pier 307 down station east of the H-1 overpass. KIWC anticipates superstructure construction to begin in early 2016.

KEY ISSUES

- KIWC Resource Levels – Column construction resumed again in November, but operations were again halted to support the WOFH project, while continuing to implement structures access MOT along Kamehameha Highway. KIWC continues to try and balance between the KHG and WOFH projects which 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.

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, as well as 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.

Permanent ITS work continues to be installed along the alignment and traffic signals crews' ceased construction due to resources being moved to the WOFH project.

- Environmental Complaints – HART continues to work with KIWC to respond to and mitigate noise complaints along the KHG alignment. Noise monitoring stations have been installed to assist in the monitoring of the construction activities and work hours have been adjusted accordingly. KIWC and HART will continue to monitor the entire alignment to ensure compliance.
- Utility relocations along the alignment continue to progress, but may be impacted by third-party schedules, primarily HECO.

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 projected ASU milestone date to August/September 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 descope 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

- Active Procurements:
 - Airport Guideway and Stations Design-Build RFP: HART is on schedule with the Part 2 solicitation timeline for Alternative Technical Concepts discussions.
 - City Center Guideway and Stations (CCGS) Design-Build RFP: The Qualifications proposals were received on Nov. 18, 2015.
 - Kamehameha Highway Stations Group (KHSG) Construction Contract (Design-Bid-Build) RFB: Bids were received on Nov. 17, 2015 and publicly opened. Four firms submitted bids: Hawaiian Dredging Construction Co. (\$123,699,400.00); Hensel Phelps (\$148,749,000.00); Nan Inc. (\$115,805,845); and Watts Constructors (\$112,724,335.00).
 - The Fare Systems Contract RFP: Proposals were received on Nov. 13, 2015.
 - Independent Financial Auditor “II” Contract RFP: The RFP was issued on Oct. 26, 2015. Proposals are due on Dec. 1, 2015.
- Upcoming Procurements:
 - The Dillingham Utilities and Roadway Design-Bid-Build Contract is anticipated to be advertised in early 2016.

KEY ISSUES

- None.

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) roof structures and beginning installation of lighting fixtures and HVAC units. AHJV is also finalizing the fire detection wiring at the MSF OSB and MOW buildings. Installation activities are underway for the first four passenger vehicle carshells.

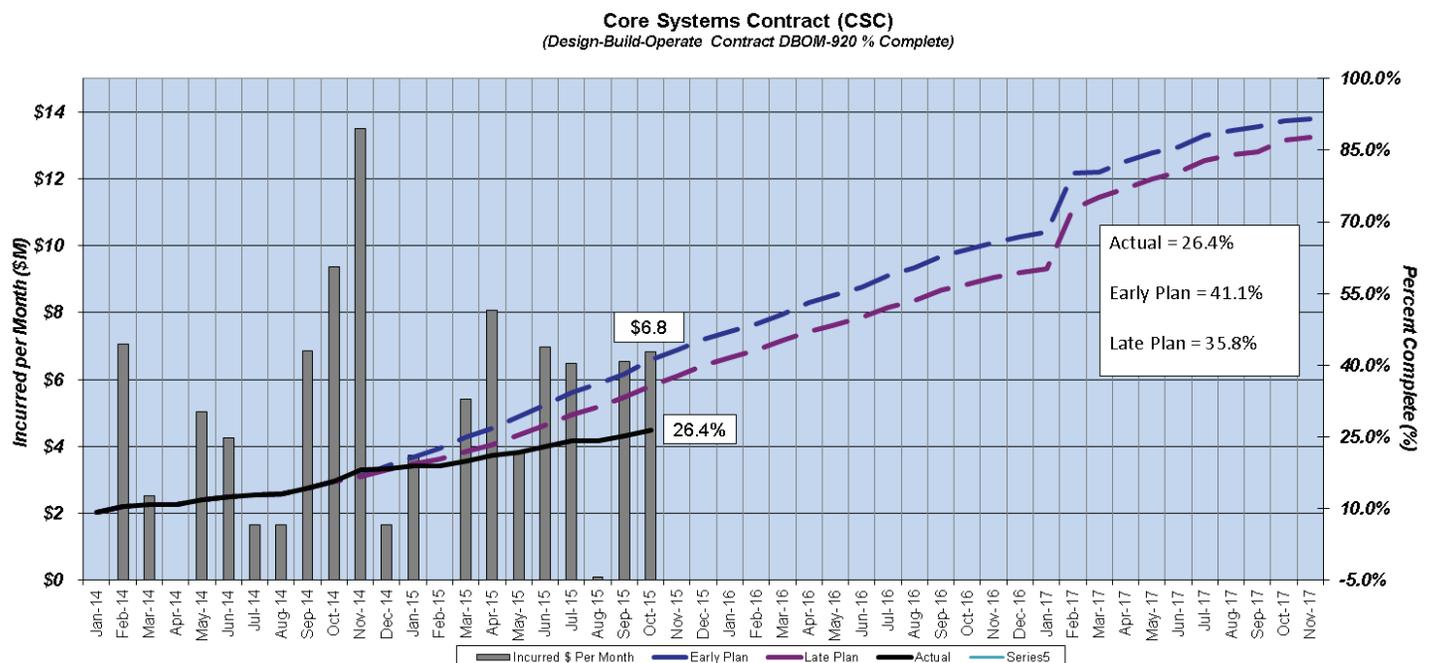
COST INFORMATION:

Original Contract:	\$573,782,793	Incurred-to-Date:	\$157,005,259
Current Contract Value ¹ :	\$598,563,687	Incurred in October:	\$6,832,859

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%

October Change Orders		
Change No.	Description	Amount (\$)
CCO00018	9 months Delay Claim Resubmittal	\$8,700,000
CCO00019	Four Car Consists	(\$5,200,000)
Cumulative to Date		\$24,780,894



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:

October 2015 Update													Data Date: 30-Oct-15, Printed On: 06-Nov-15													
Activity Name	Start	Finish	2014			2015				2016				2017				2018				2019				
			Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	
Core Systems & Vehicles (DBOM) Contract	17-Jan-12 A	31-Mar-19																								
Core Systems Design	17-Jan-12 A	30-Oct-15																								
Core Systems Maintenance & Storage Facility Install	27-Mar-15 A	27-May-16																								
Core Systems Guideway Install	30-Oct-15	31-Jan-19																								
Core Systems Stations Install	17-Dec-15	28-Feb-19																								
Core Systems Vehicles	15-Jul-14 A	28-Sep-18																								
Core Systems Local and Integrated Testing	13-Oct-16	31-Mar-19																								

	Interim Design Submitted Documents	Final Design Submitted Documents	Target Completion Date
Passenger Vehicles	100%	59%	4 th Q 2015
Communications	100%	44%	4 th Q 2015
ATC/SCADA	88%	94%	4 th Q 2015
TES	100%	100%	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 received the first four carshells and assembly of the first vehicle is underway at the final assembly facility in Pittsburg, CA. This work is being monitored closely.
- Due to the modified CAM dates, the equipment installation at Pearl Highlands and Pearlridge Stations are driving the critical path.

WORK PROGRESS:

Activities this Month:

- Project-Wide Percent Complete: 29%
- Passenger Vehicle Percent Complete: 38%

Design:

- ATC/SCADA – Documents Received: 12, Documents Returned: 10.
- Communications – Documents Received: 10, Documents Returned: 21.
- Traction Power – Documents Received: 15, Documents Returned: 27.
- Fire Detection – Documents Received: 2, Documents Returned: 5.
- Platform Screen Gates – Documents Received: 5, Returned: 14.
- Passenger Vehicles – Documents Received: 8, Documents Returned: 16.

Manufacturing:

- Performed manufacturing oversight work at the Hitachi Rail factories. (For additional details, please see the Vehicle Carshell Progress Tracker in Appendix E.)
- 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.

Look Ahead:

Design:

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

Manufacturing:

- Passenger Vehicle Manufacturing – Continue carshell assembly for the first ten carshells (first three trains).
- Continue installation of cable bundles, raceways, windows and vehicle equipment.

Testing:

- Traction Power – Design Verification of TPSS Temperature Rise – Fontana, CA (December 2015).
- Traction Power – Pre-shipping Inspection Test East Kapolei TPSS – Fontana, CA (December 2015).
- Communication Systems – Pre-Shipping Inspection Test for Passenger Information System – Plano, TX (January 2016).
- Communications Pre-Shipping Inspection of On-Board Systems – Plano, TX (January 2016).
- Communications Design Verification of Integrated Network Management System (INMS) – Plano, TX (January 2016).

Activities this Month (continued):

Testing:

- Witnessed Passenger Vehicle First Article Inspections for the brakes system, air system and door operator in Westminster, Maryland.
- Witnessed Passenger Vehicle First Article Inspection of passenger seats in Bellwood, Illinois.
- Conducted a production status inspection of Passenger Vehicle components at the ULTIMATE Plant in China.
- Performed ICCS Software Audit in Levane, Italy.
- Train Control Systems – Pre-Shipping Inspection Test for LCC Station TCCR Equipment – Batesburg, SC.

MSF:

- 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 roof slab and installation of lights and HVAC units.
- AHJV continues walk through activities with KKJV for shared 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.
- Construction of foundations for the Closed Circuit Television Cameras poles at the MSF perimeter is ongoing.

Look Ahead (continued):

- Communications Pre-Shipping Inspection of Telephone System – Plano TX, (December 2015).
- Communications Pre-Shipping Inspection of Voice Radio Communication System (VRCS) – Plano TX, (February 2016).
- Train Control Systems – Pre-Shipping Inspection Test for LCC Station SCADA Hardware – Batesburg, SC (December 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 – Ho’opili TCCR – Batesburg, SC (December 2015).

MSF:

- 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.
- Installation of Train Control and COMMs cables in the track areas.
- Construction of Communication Interface Cabinet (CIC) foundations in the yard and CCTV poles at the MSF perimeter.
- Pulling COMMs cables in the OSB and MOW.

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. Weekly meetings are taking place.

QUALITY MANAGEMENT:

- Overall quality of the contract is good.

Design Verifications & System Testing		
Subsystem	Test Completed	Date Completed
PASSENGER VEHICLES	First Article Inspection Test for Brakes, Air Systems and Automatic Door Operator in Westminster, Maryland.	Oct. 9, 2015
PASSENGER VEHICLES	First Article Inspection Test for passenger seats in Bellwood, Illinois.	Oct. 27, 2015
PASSENGER VEHICLES	Conducted a production status inspection of Passenger Vehicle components at the ULTIMATE Plant in China.	Oct. 19, 2015
COMMUNICATIONS	Performed ICCS Software Audit in Levane, Italy.	Oct. 9, 2015
TRAIN CONTROL	Train Control Systems – Pre-Shipping Inspection Test for LCC Station TCCR Equipment – Batesburg, South Carolina.	Nov. 6, 2015

Passenger Vehicle - Oversight		
Facility	Activity	Date Completed
Pittsburg, CA	On-site inspector in place to oversee and report on Hitachi Rail Final Assembly activities. The first four carshells arrived at the Final Assembly Facility.	Ongoing

CSC NCR Log			
	TOTAL	CLOSED	OPEN
AHJV & Subs	24	23	1
Hitachi Rail	278	194	84
TOTAL	302	217	85

- Hitachi Rail 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 roof slab completed.



MSF Yard – Installation of high voltage cables.



MSF Yard – Installation of high voltage cables.

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 Stations DB contract part 1 was advertised in August 2015, 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: \$4,784,807

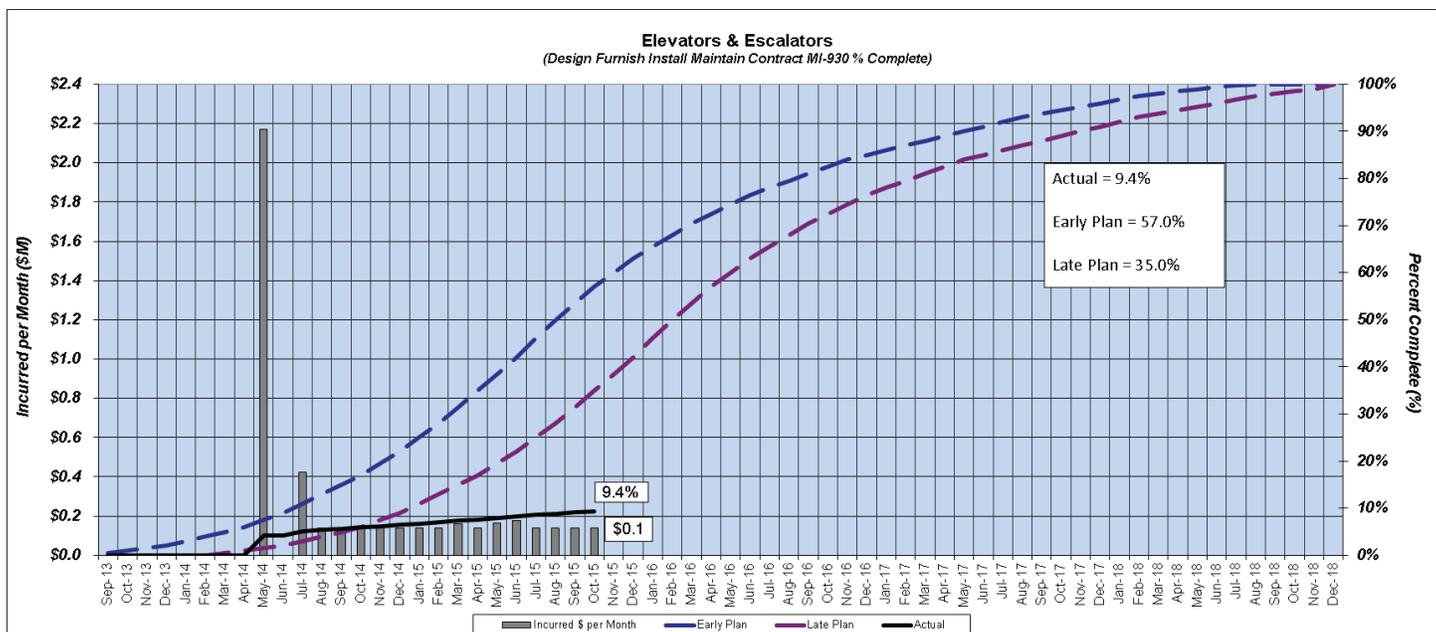
Current Contract Value¹: \$50,982,714

Incurred in October: \$140,825

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

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

October 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:

October 2015 Update		Data Date: 30-Oct-15, Printed On: 06-Nov-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
Elevators & Escalators																			
W. Oahu/Farrington Highway (WOFH) - Section 1																			
W. Oahu Station Group																			
Construction - W. Oahu Station Group																			
East Kapolei Station E&E Installation																			
UH West Oahu Station E&E Installation																			
Ho'opili Station E&E Installation																			
Farrington Highway Station Group																			
Construction - Farrington Highway Station Group																			
West Loch Station E&E Installation																			
Waipahu Transit Station E&E Installation																			
Kamehameha Highway (KH) - Section 2																			
Kamehameha Highway Station Group																			
Construction - Kamehameha Highway Station Group																			
Pearl Highlands Station E&E Installation																			
Pearl Ridge Station E&E Installation																			
Aloha Stadium Station E&E Installation																			
Airport - Section 3																			
Airport Station Group																			
Construction - Airport Station Group																			
Pearl Harbor Station E&E Installation																			
HNL Airport Station E&E Installation																			
Lagoon Drive Station E&E Installation																			
Middle Street Station E&E Installation																			
City Center (CC) - Section 4																			
Dillingham Station Group																			
Construction - Dillingham Station Group																			
Kalhi Station E&E Installation																			
Kapalama Station E&E Installation																			
Iwilei Station E&E Installation																			
Chinatown Station E&E Installation																			
Kaka'ako Station Group																			
Construction - Kaka'ako Station Group																			
Downtown Station E&E Installation																			
Civic Center Station E&E Installation																			
Kaka'ako Station E&E Installation																			
Ala Moana Center Station E&E Installation																			

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 will impact the completion of the Elevator Escalator contract.

WORK PROGRESS:

Activities this Month:

Earned Value: 9.4%; Planned Value: 35%

- 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. A competitive number of proposals were received on Nov. 13, 2015. An award is anticipated 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 winter 2017.
- Anticipated system pilot launch on TheBus is spring 2018, with full roll out on TheBus (including all central systems) in winter 2018.
- Interim roll out on rail is still scheduled for 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 two rounds of COR review of O&M MOU and review with BFS regarding financial system reporting requirements within the MOU.
- Confirmed MOU between HART and OahuMPO not required, but sub-contracts agreement required for OahuMPO fare modeling funding.
- Completed M4 for fare modeling work.
- Begin evaluation of vendor proposals.
- Provide HART Board with briefing on Fare Systems plans.

Look Ahead:

- Review OahuMPO long range plan ridership results and apply for OahuMPO grant for partial funding of Fare modeling work.
- Working with interagency evaluation team, develop a Priority List of Offerors for the Fare Systems.
- Meet with top three identified Priority List of Offerors and discuss BAFO issues.
- Prepare BAFO documents.
- Prepare O&M MOU for signature.

KEY ISSUES:

- O&M MOU needs to be signed by all parties prior to award of Fare Systems contract.
- Developing a Priority List of Offerors from the top three proposals received on Nov. 13, 2015.

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: In November, progress continues for utilities, dilled shafts, columns, segment casting, and span stressing. 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. Heading #3 is erecting segments towards the eastern end of the alignment. The Project’s Key Quality Issues continue to focus on drilled shafts and segment repairs, in addition to the repairs of Span 17.

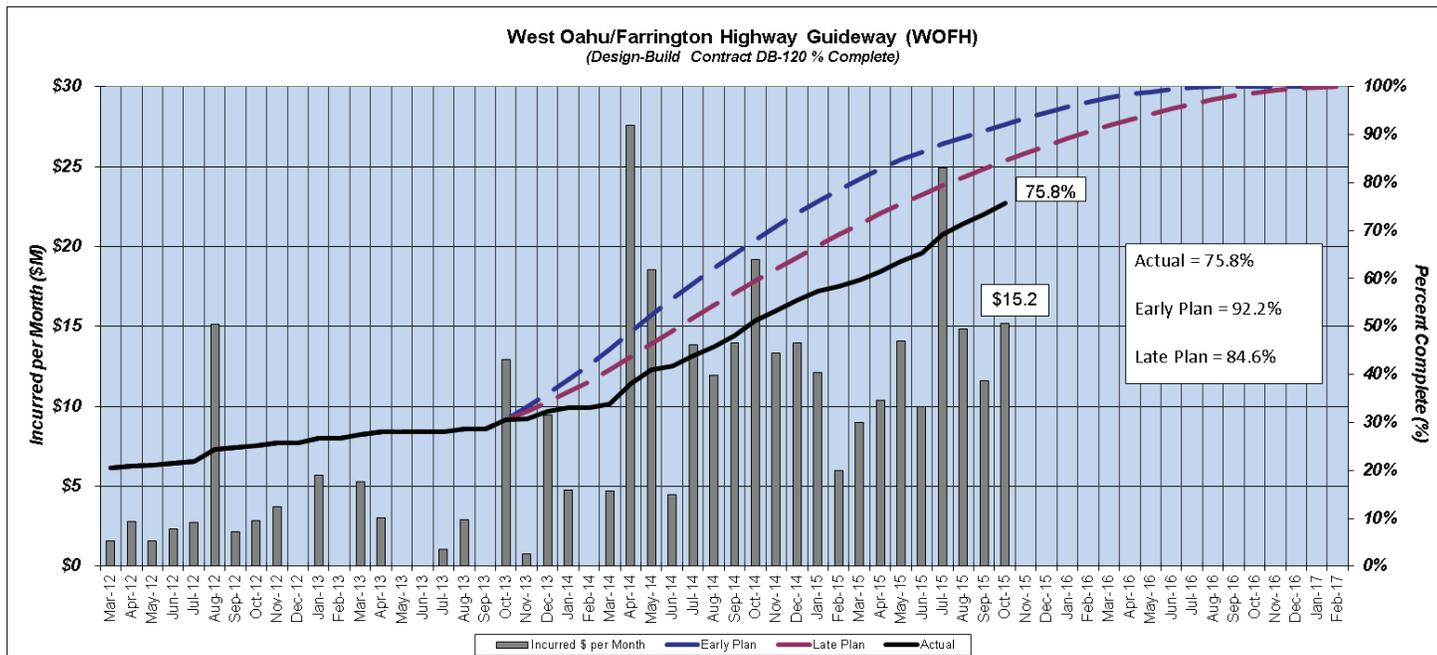
COST INFORMATION:

Original Contract:	\$482,924,000	Incurred-to-Date:	\$478,279,230
Current Contract Value ¹ :	\$631,206,384	Incurred in October:	\$15,217,811

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

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

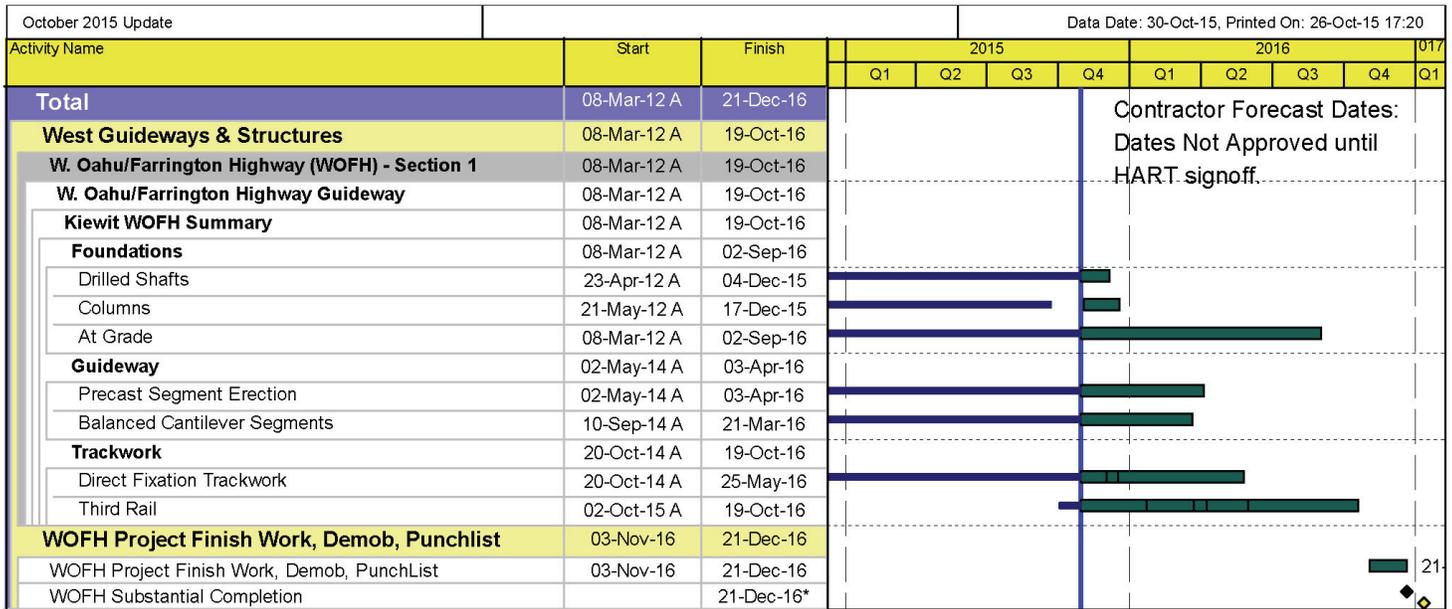
October Change Orders		
Change No.	Description	Amount (\$)
None	---	---
Cumulative to Date		\$148,282,384



In November, KIWC submitted Pay Application #73 for the October 2015 billing and it is currently being reviewed by HART. Pay Application #71 for Escalation Due to Schedule Impacts – 1/1/15 to 3/31/15 and Pay Application #72 for the September 2015 billing have been approved and closed. HART executive management maintains that retention will continue to be withheld until such time that satisfactory progress is achieved.

SCHEDULE:

- Progress is lagging from the approved baseline 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 is evaluating the merit of KIWC’s request for change to the substantial completion date.



CRITICAL PATH ISSUES:

- The lead time for modular buildings at LCC and delays with procurement and LCC ROE Agreement have had an impact to the overall schedule. The modular buildings at LCC arrived on site in October 2015 and are being installed in November 2015.
- The LCC ROE for construction and the KIWC Issued for Construction (IFC) design for the LCC portables and parking lot were executed a couple of weeks ahead of KIWC’s August 2015 Update schedule. 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.

WORK PROGRESS:

WOFH Construction Status as of 11/13/15									
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	303	309	296	309	98%
Sewer Line	550	570	96%	Columns	240	252	223	283	85%
Fuel Line	340	340	100%	Segment Casting	3,181	3,209	2,855	3,209	99%
Gas line	1,498	1,591	94%	Spans Stressed	209	222	187	274	76%
Drainage Line	3,525	5,166	68%	* Accepted Schedule was submitted in 2013.					
Elec/Telecom	16,589	21,374	78%	** The planned values are based on KIWC’s pending July schedule revision dated August 24, 2015. Revised schedule reflects a 6 month delay in 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	975	7,046	14%						
ITS Systems Devices	821	4,121	20%						

Activities this Month:

Earned Value: 76% [(Total Achieved to October 2015 (\$463.1 million) + Projected November 2015 Period (\$15.8 million))/Total Contract Including Executed Change Orders (\$631 million)].
 Planned Value: 86.3%

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.

Activities this Month (continued):

Shaft/Column

- Performed drilled shaft construction, drilling, and placing of concrete for a total of 6 drill shafts. Set rebar and placed concrete for 10 columns.

Guideway Segment Erection

- Eastbound Heading #1 segments were erected from Span 175 through Span 188. Westbound Heading #2 segments were erected from Span 249 through 240. Heading #3 is progressing from Span 262 to the eastern end of the alignment, to be completed by mid-December.

Utility Relocation

- KIWC continues to relocate third party utilities and is staying out in front of drilled shaft productions. All shaft conflict relocation has been completed on the project. Only guideway utility conflicts are outstanding.

Balanced Cantilever Structure

- Cast the stem walls for pier abutment at Pier 252. Cast 1 segment upstream at Pier 254. Cast 2 segments downstream and 1 segment upstream at Pier 255. The formwork for BCS Segment 256-1U was completely installed. Travelers at 254 upstream and 255 downstream were moved to Pier Table 256.

Track Construction

- KIWC continues with thermite welding activities and replacing track inserts at Ho’opili Station. KIWC is also installing track plates and concrete plinth forms east of West Loch Station.

Precast Yard

- Precast Yard performed daily segment and sound wall casting averaging 2 segments per day or 7-10 segments per week.

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 A, C and D.

Look Ahead (continued):

Shaft/Column

- Continue with column production along Farrington between Work Area 3 Phase 6 and 7 (Mukuola St.) continuing towards Work Area 3 Phase 9. Column production is proceeding from Work Area 3 Phase 9 (Kahuali’i St.) westward.

Guideway Segment Erection

- Segment span erection will continue from Span 240 westbound towards Waipahu Transit Center, and from Span 188 eastbound along Farrington Highway to intersect Heading #2 at Waipahu Transit Center Station. Heading #3 will continue segment erection from Span 263 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 the last downstream segments for the balanced cantilever at Pier 253. Segments will be cast downstream for Pier 255 and upstream at Pier 256.

Track Construction

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

Precast Yard

- Casting of segments will be completed for the WOFH project, and KIWC will continue with segment repair work.

KIWC/Third-Party Coordination

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

Civil Structures

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

KEY ISSUES:

- **Design Completion Schedule** – As of mid-November, 124 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, which is not impacting construction
- **Leeward Community College (LCC) Portables and Parking Lot Change Order** – KIWC has begun work at the LCC Station area and the delivery of the new portable buildings was completed in October 2015 ahead of planned schedule.
- **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, which is being used to track progress against schedule of payment milestones. KIWC submitted an updated schedule in August 2015 via a Request for Change (RFC) containing significant unilateral changes in durations, logic, as well as activity modifications, which are currently under review by HART and will be negotiated as part of the contract time extension change order.
- **Intersection Closure for Span by Span** – KIWC has successfully completed span erection and post tensioning at multiple intersections, and temporary intersection closures continued through November to support span operations. KIWC and HART will continue to evaluate opportunities for minimizing full closures at intersections during span by span operations over intersections along Farrington Highway.

- **Closeout and Coordination** – As the project approaches substantial completion, KIWC has begun coordination with oncoming station contractors, as well as discussions between HART and KIWC on project closeout documentation requirements.

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. KIWC is currently working on the Drilled Shaft 236 repair. KIWC will proceed to the shaft preparation for repair at Shaft 217 to 225.
- **Pre-Cast Segment Progress/Quality** - 133 of the total 476 NCRs (27.9%) have been related to segmental casting issues like damaged shear keys, concrete voids and spalls. Proper correction procedures have already been developed and are being implemented, and these issues are currently being resolved.
- **Closing Out NCRs** – Both KIWC and HART have been working together to promptly correct, validate, and close out NCR’s during this period. A total of 10 NCRs have been closed since last month including three drilled shaft issues, two column finish issues, one precast segment tensioning issue, one column shear key spall issue, and one issue regarding MOT, BCS Pier Table and track plinth concrete elevation.
- **Maintenance of Traffic (MOT) Concerns** – HART and KIWC continue to work together through joint site meetings to ensure that the MOT is in place and in conformance with KIWC’s approved plans.
- **Track Construction Operations** – HART and KIWC continue to have discussions on Direct Fixation Shim Tolerances. KIWC is working to resolve outstanding technical issues on the shim tolerances.

WOFH NCR Log		
Total NCRs Issued To Date	CLOSED	OPEN
476	416	60

PROJECT PICTURES:



Erect segments at Span 261, Work Area 7.



Pouring concrete plinth at West Loch Station Column 161, WA 2.



Balanced Cantilever Pier Table 256 and segments at Span 257.



Stressing permanent tendons at Span 184, WA 2.

B. West O’ahu Station Group (WOSG)

Contract No.: DBB-171

Contractor: Nan, Inc.

Contract Start Date: October 2015

Contract Substantial Completion: March 2018

Projected Substantial Completion: TBD

Project Description: The West O’ahu Station Group Construction contract includes services to build three (3) transit stations along Kualaka’i Parkway and Farrington Highway. The stations are East Kapolei (EK), UH West O’ahu (UHWO) and Ho’opili Stations. In addition to the transit stations, operational ancillary buildings, traction power substation and adjacent areas are included in this project.



Project Overview: The contractor was issued Notice-to-Proceed (NTP) on Oct. 13, 2015.

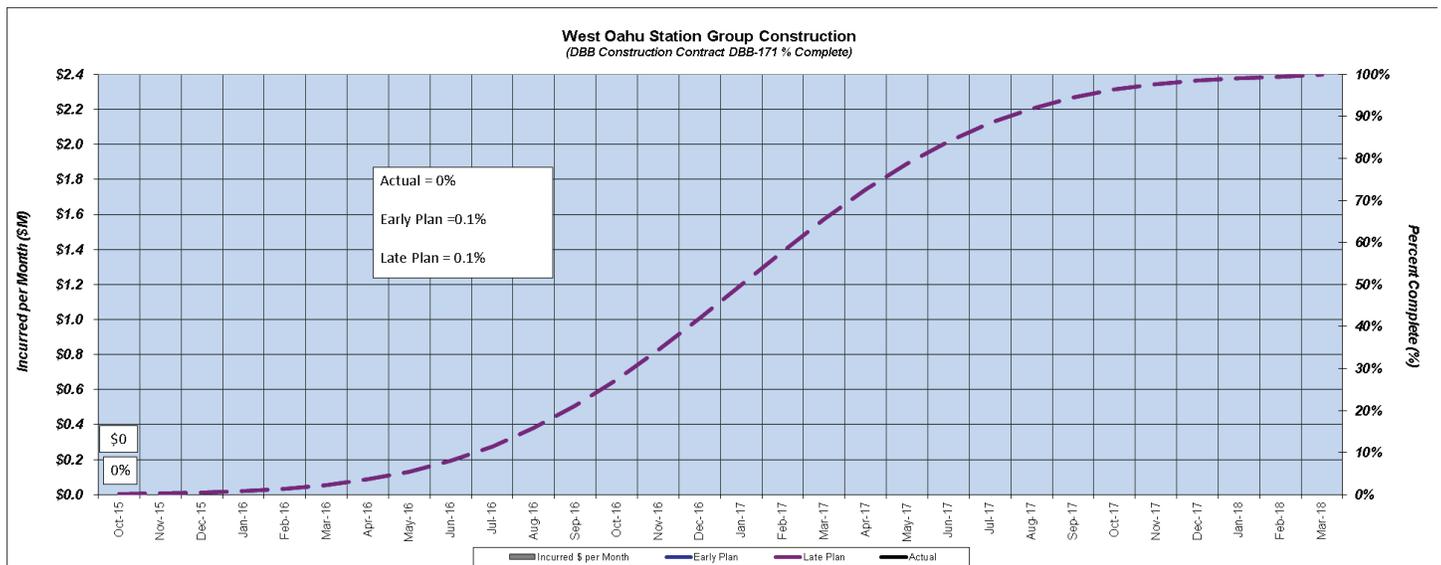
COST INFORMATION:

Original Contract:	\$56,088,470	Incurred-to-Date:	\$0
Current Contract Value ¹ :	\$56,088,470	Incurred in October:	\$0

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

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

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



SCHEDULE:

October 2015 Update		Data Date: 30-Oct-15, Printed On: 17-Nov-15														
Activity ID	Activity Name	Start	Finish	2015			2016				2017				2018	
				Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	
W. Oahu/Farrington Highway (WOFH) - Section 1		28-May-13 A	29-Sep-17													
W. Oahu Station Group		28-May-13 A	29-Sep-17													
Design - W. Oahu Station Group		28-May-13 A	29-Sep-17													
Design - Bid Support		28-May-13 A	13-Oct-15 A													
Design - Construction Support		13-Oct-15 A	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													
Ho'opili Station		03-Dec-15	31-Jul-17													

CRITICAL PATH ISSUES:

- Baseline Schedule approval.
- Review and approval of contractor’s administrative plans and procedures are required by the contract.

WORK PROGRESS:

Activities this Month:

Earned Value: 0%; Planned Value: 0%

- NPDES permit received.
- Draft Baseline Schedule to be submitted.
- Draft plans and procedures being submitted.
- Right of Entry documents for Ho’opili and UH West O’ahu.

Look Ahead:

- Right of Entry documents from Ho’opili and UH West O’ahu.
- Baseline Schedule approval.
- Incorporating the final conformed set into the contract document upon receipt from design.

KEY ISSUES:

- Baseline Schedule.

QUALITY MANAGEMENT:

WOSG NCR Log		
Total NCRs Issued To Date	CLOSED	OPEN
0	0	0

C. Farrington Highway Station Group (FHSG)

Contract No.: DBB-271

Contractor: Hawaiian Dredging Construction Company, Inc.

Contract Start Date: August 2015

Contract Substantial Completion: January 2018

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. Hawaiian Dredging Construction Company (HDCC) introduced One (1) Value Engineering (VE) concept– Augercast piles at the Waipahu Transit Station. 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.

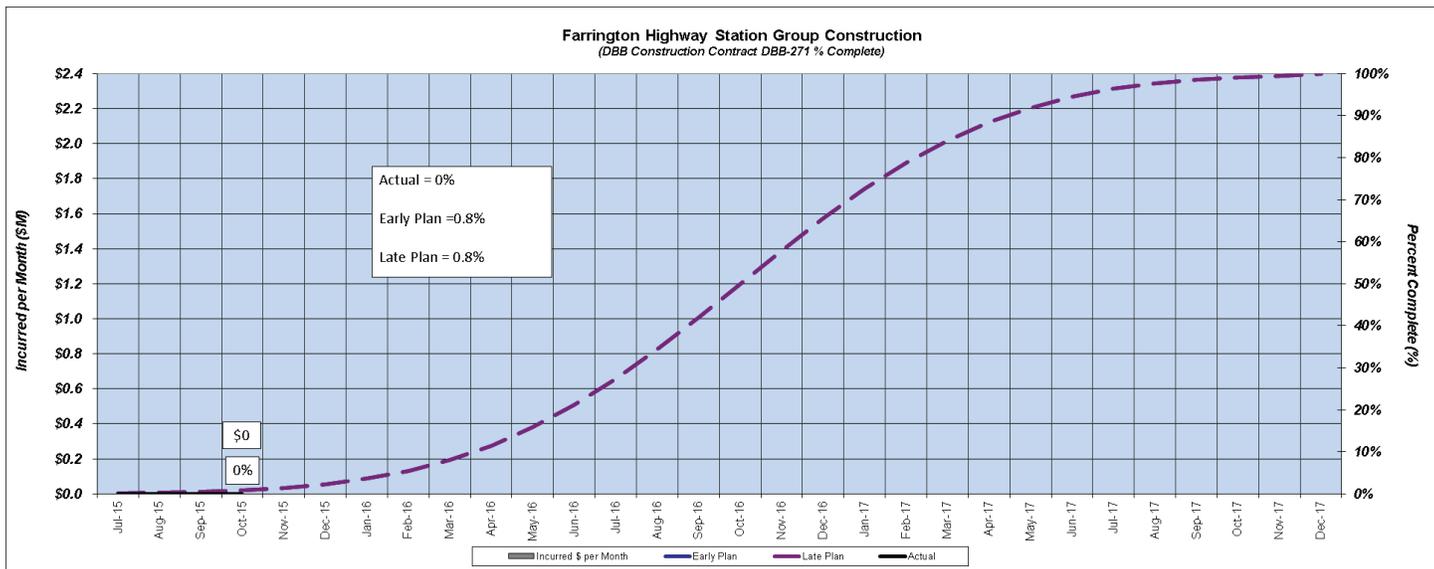
COST INFORMATION:

<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 October:</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%

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



SCHEDULE:

October 2015 Update			Data Date: 30-Oct-15, Printed On: 18-Nov-15													
Activity Name	Start	Finish	2015			2016				2017				2018		
			Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1		
W. Oahu/Farrington Highway (WOFH) - Section 1	28-Jan-13 A	31-Dec-17														
Farrington Highway Station Group	28-Jan-13 A	31-Dec-17														
Design - Farrington Highway Station Group	28-Jan-13 A	31-Dec-17														
Design - Bid Support	28-Jan-13 A	17-Aug-15 A	█													
Design - Construction Support	17-Aug-15 A	31-Dec-17				█	█	█	█	█	█	█	█	█	█	█
Construction - Farrington Highway Station Group	17-Aug-15 A	31-Dec-17														
West Loch Station	17-Aug-15 A	31-Jul-17				█	█	█	█	█	█	█	█	█	█	█
Waipahu Transit Station	17-Aug-15 A	31-Jul-17				█	█	█	█	█	█	█	█	█	█	█
Leeward Community College Station	01-Jun-16	31-Dec-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%

- Revised draft Baseline Schedule to be submitted; HART will review.
- Preliminary discussion for one (1) Value Engineering concept 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.

QUALITY MANAGEMENT:

FHSG NCR Log		
Total NCRs Issued To Date	CLOSED	OPEN
0	0	0

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.

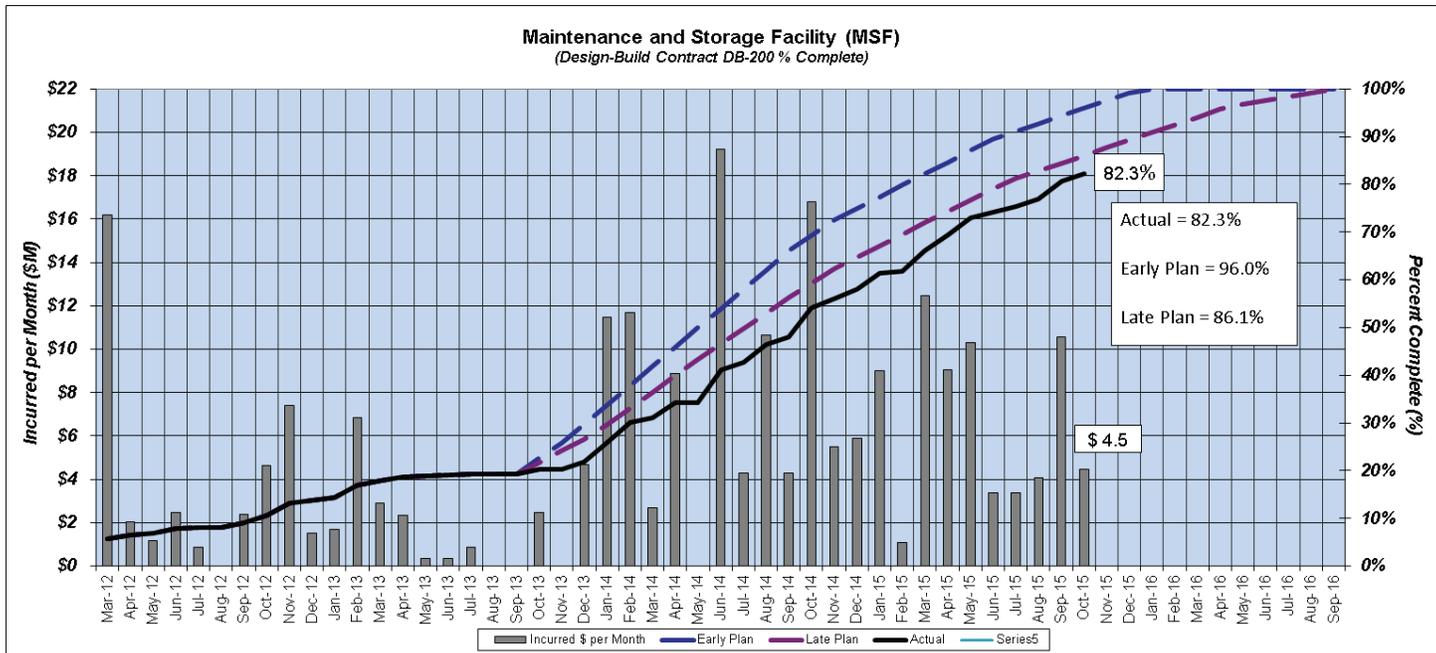
COST INFORMATION:

<u>Original Contract:</u>	<u>\$195,258,000</u>	<u>Incurred-to-Date:</u>	<u>\$230,308,016</u>
<u>Current Contract Value¹:</u>	<u>\$274,878,772</u>	<u>Incurred in October:</u>	<u>\$4,462,419</u>

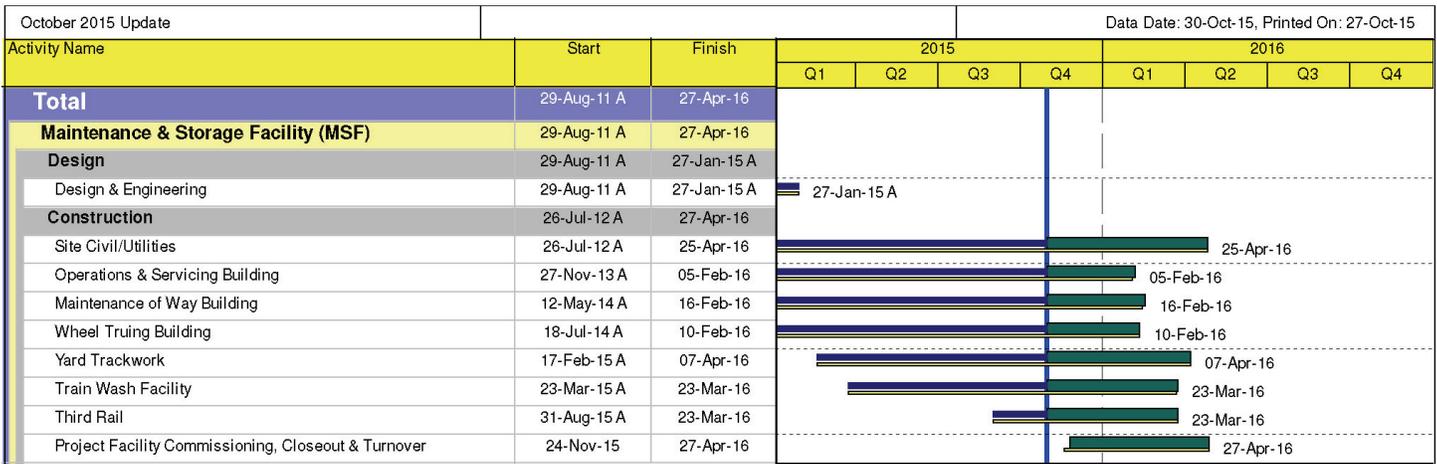
¹Current Contract Value = Original contract value (not including contingency) + executed Change Orders

DBE Participation	
Actual DBE Participation:	\$388,923
DBE % Attained:	0.20%

October 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	
86% Complete Overall as of 11/30/15	
Element	% Complete*
OSB	93%
MOW Building	93%
WTB	97%
TWF	53%
Rail Procurement	98%

*Not including testing and commissioning.

WORK PROGRESS:

Activities this Month:

Earned Value: 84% [(Total Achieved to September (\$222 million) + Projected October 2015 Period (\$7.7 million))/Total Contract Including Executed Change Orders (\$275 million)]. Planned Value: 87%

Yard/Utilities

- Installing conduit for systems, communications, train control, traction power, site electrical and exterior lighting.
- Yard lighting installation has resumed.
- Track drain, subballast, and ballast installation East Yard Lead is ongoing and commenced for West Yard Lead.
- Asphalt paving of walkways for the Storage Tracks is complete in Phase 2.

Operations and Servicing Building (OSB)

- Completed slab on grade (SOG) construction.
- Installation of mechanical/electrical/plumbing is ongoing.
- Commenced elevator installation.
- Extended permanent power into building.
- Installing of service and emergency lighting.
- Installing drywall and interior and exterior building finishes.
- Installing framing for fixed ceilings.
- Installing metal door frames, doors, and glazing.
- Installing power distribution cabinets continues.
- Installation of air handlers and ventilation fans continues.
- Painting of interior surfaces is ongoing.

Maintenance of Way (MOW)

- Pulling power distribution conductors.
- Installed diffusers and solar tubes and skylights.

Look Ahead:

Yard/Utilities

- Continue train wash, MOW, and ready track installation.
- Continue East Yard Lead track.
- Continue West 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.
- Turnover of Storage Track in Phase 2 to CSC.

OSB

- Installation of turntables and hydraulic lifts.
- Interior finishes/HVAC.
- Continue installing elevator.
- Install floor tile and bathroom accessories.
- Energize distribution power.

MOW

- Complete power distribution conductors.

Activities this Month (continued):

- Completed elevator installation.
- Installing mechanical/electrical/plumbing systems.
- Completed power distribution cabinets.
- Installing of interior doorframes and personnel doors is complete.
- Application of polished floor finish continues.
- Continuing installation of ceiling tiles.
- Installed bathroom tile mockup.

Wheel Truing Building (WTB)

- Completed personnel doors installation.
- Completed wheel lathe assembly installation.
- Completed remaining HVAC/electrical/compressed air rough in.
- Extended permanent power into building.
- Installing power distribution.
- Completed painting.
- Installing plumbing trimout.
- Installing ceramic tile.

Train Wash Facility (TWF)

- Completed installing CMU walls.
- Installing door frames.
- Installing louver sills.
- Installing grounding grid.
- Installing structural steel.

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.
- Installing subballast and ballast for ready tracks RL1 – 3 and W1 heading toward MOW and Train Wash.
- Continuity testing of running rail and conductivity testing of contact rail.
- Preparing for upcoming turnover of Phase 2 Storage Tracks to CSC.

Administration

- Continue 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 exterior doors and glazing.
- Tile floor and wall installation.

WTB

- Complete plumbing trim.
- Complete ceramic tile.
- Release Building Systems raceway to CSC.

Train Wash Facility

- Continue structural steel installation.
- Continue window and door frame installation.

KEY ISSUES:

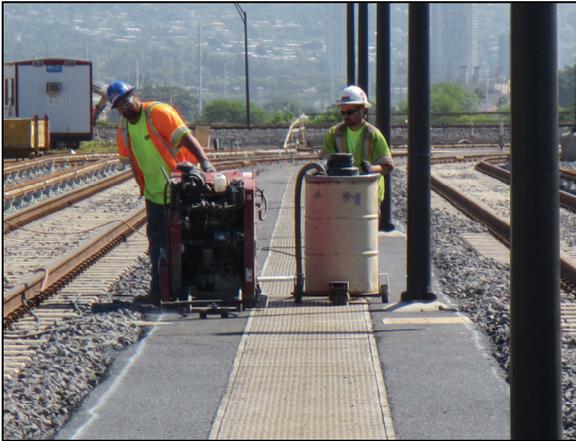
- **Joint Occupancy with Core Systems Contractor** – weekly meetings are held and details are being worked out for systematic release of areas and infrastructure whereby the Core Systems Contractor can commence work.
- **Coordination with the abutting main line contract** – for completion of site access 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.
- NCR 29 concerns a missing ground wire.

MSF NCR Log		
Total NCRs Issued To Date	CLOSED	OPEN
29	27	2

PROJECT PICTURES:



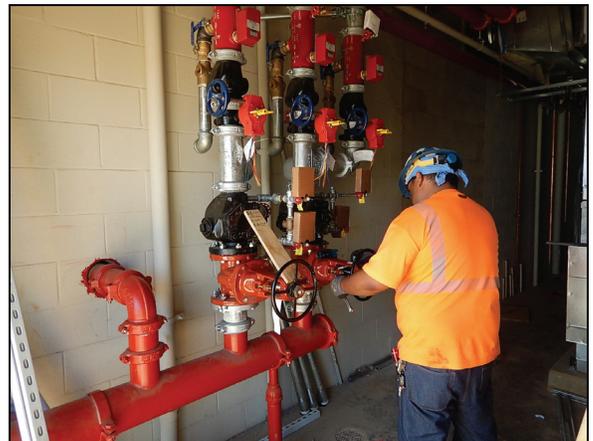
Sawcutting the asphalt walkway at Storage Tracks.



Extending raceways to light pole foundation outside of MOW.



Raceway installation under raised floor in OSB Operations Control Center (OCC).



Installation of flow control valves for fire protection system in MOW.



WTB wheel truing machine conveyor belt installation.



TWF CMU wall temporary bracing.

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. Construction of columns has been completed from just west of Waimano Home Road to the WOFH contract, with the exception of the C-piers at Acacia that are currently being constructed. Discussions with HECO are being held at an elevated level to coordinate the schedule of work to minimize project delays. Construction of the Balanced Cantilever column 306 up and down station has been completed and KIWC has begun construction on Pier 307 down station east of the H-1 overpass.

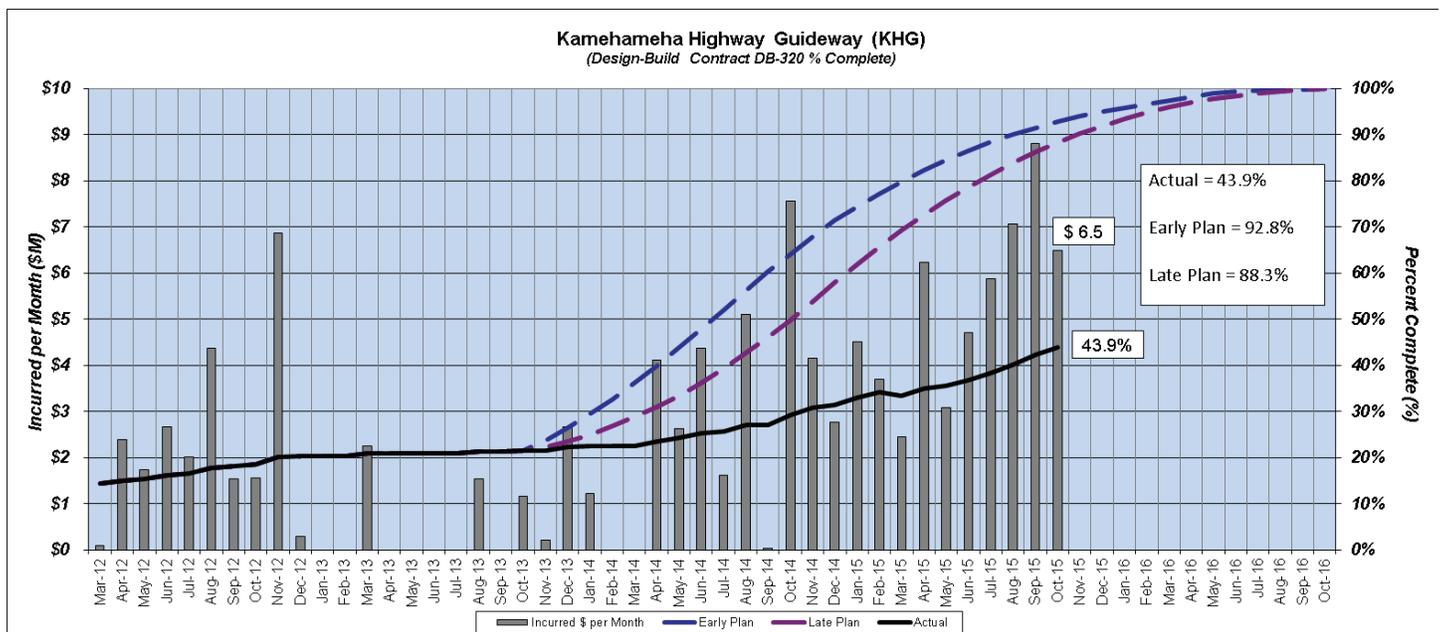
COST INFORMATION:

<u>Original Contract:</u>	<u>\$372,150,000</u>	<u>Incurred-to-Date:</u>	<u>\$175,130,414</u>
<u>Current Contract Value¹:</u>	<u>\$388,909,985</u>	<u>Incurred in October:</u>	<u>\$6,483,341</u>

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

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

October Change Orders		
Change No.	Description	Amount (\$)
None	---	---
Cumulative to Date		\$16,759,985



In November, KIWC submitted Pay Application #52 for the October 2015 billing and is currently being reviewed by HART.

SCHEDULE:

- KIWC schedule has continued to slip due to various factors including; weather, lower productivity and resource sharing between KHG and WOFH projects, and third-party utility relocation work. HART has noted that it is KIWC’s contractual responsibility to coordinate third-parties activities, which have contributed to the schedule slippage.

KIWC submitted a schedule revision in December 2014 with a data date of October 2014. This schedule showed a revised Substantial Completion date of April 4, 2017. HART provided review comments to the schedule and has requested re-submittal via Request for Change (RFC) due to the change to the contractual substantial completion date.

KIWC has since submitted a revised schedule in September 2015 via RFC, re-sequencing the guideway and road work. The schedule contains significant unilateral changes in durations, logic, as well as activity modifications, and is currently being reviewed by HART. The revised schedule shows the guideway structure forecasted to be complete in April 2017 with completion of the roadway civil construction and the overall project in September 2017.

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 July 2015 update, and -200 days in the October 2014 update.

October 2015 Update		Data Date: 30-Oct-15, Printed On: 27-Oct-15 13:04								
Activity Name	Start	Finish	2016				2017			
			Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
Total	03-Nov-14 A	28-Sep-17	Contractor Forecast Dates: Dates Not Approved until HART signoff.							
Drilled Shafts	03-Nov-14 A	30-Nov-16								
KHG Area 1	03-Nov-14 A	22-Dec-15								
KHG Area 2 (Balanced Cantilever)	12-Aug-15 A	13-Jan-16								
KHG Area 3	31-Aug-15 A	30-Nov-16								
KHG Area 4	03-Mar-15 A	01-Aug-16								
Precast Segment Erection	24-Aug-15 A	08-Mar-17								
KHG Area 1	24-Aug-15 A	06-Apr-16								
KHG Area 3	06-May-16	22-Jan-17								
KHG Area 4	15-Sep-15 A	08-Mar-17								
Columns	05-Aug-15 A	06-Feb-17								
KHG Area 1	05-Aug-15 A	18-Jan-16								
KHG Area 2 (Balanced Cantilever)	03-Sep-15 A	02-Feb-16								
KHG Area 3	24-Sep-15 A	06-Feb-17								
KHG Area 4	14-Aug-15 A	18-Aug-16								
Cast BC Segments	19-Oct-15 A	19-Oct-16								
KHG Area 2 (Balanced Cantilever)	19-Oct-15 A	19-Oct-16								
Trackwork	26-Jan-16	28-Sep-17								
Direct Fixation Trackwork	26-Jan-16	01-May-17								
Third Rail	10-Feb-16	13-Apr-17								
KHG Project Finish Work, Demob, Punchlist	01-Jul-17	28-Sep-17								
KHG Project Finish Work, Demob, Punchlist	01-Jul-17	28-Sep-17								
KHG Substantial Completion		01-Jul-17								

CRITICAL PATH ISSUES:

- The KIWC third truss (Heading 3) has been assembled at the WOFH Pearl Highlands Station work area and is east bound heading toward the KHG alignment. This location of Heading 3 has created a delay to the start of span by span segment erection for KHG. Currently, the schedule shows span by span segment erection starting in December 2015.
- HECO schedule forecasts at utility conflicts 11-920-M1 and 8-860-M1 has resulted in further delays to the KHG project, which has been partially mitigated by KIWC re-sequencing the road widening work.

WORK PROGRESS:

KHG Construction Status as of 11/13/15									
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	89	131	88	186	48%
Gas Line	12,641	12,641	100%	Columns	18	95	19	169	11%
Sewer Line	492	492	100%	Segment Casting	582	1,132	629	2,075	28%
Drainage	705	1,469	48%	Spans Stressed	0	80	0	166	0%
Elec/Telecom	15,564	19,455	80%	* Accepted Schedule was submitted in 2013.					
Signals/ITS/Lights	13,587	18,486	74%	** These quantities are based on KIWC’s pending August 2015 schedule revision dated September 23, 2015. Revised schedule reflects a 12 month delay in completion.					

Activities this Month:

Earned Value: 46.1% [(Total achieved to October 2015 (\$166.6 million) + November projection (\$12.7 million))/Total contract including executed Change Orders (\$389 million)]. Planned Value: 90.2%

Shaft/Column/Segments

- 89 of 186 shafts have been installed; 48% of all shafts have been completed on KHG.
- 18 of 169 columns have been constructed.
- 582 of 2,075 segments have been cast.
- Column construction has halted on KHG. Column crews have remobilized to WOFH, after completing 5 columns in November.
- Balanced Cantilever columns west of the H-1 overpass have been completed.
- Construction of Balanced Cantilever columns east of the H-1 overpass have begun.
- “C” pier 277 footing has been completed.
- Continued construction of footings for “C” piers at Shafts 278 and 279.

Utility Relocation Progress

- 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 traffic signal foundation has ceased due to crew reallocation to WOFH.
- Installation of Waimalu drain line in Phase 5 continues.

Roadway Widening

- Roadway widening has been placed on hold due to crews being moved to WOFH.

Look Ahead:

Design Progress

- HART and KIWC are working together to complete final design. To date, 40 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 during December.

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 column 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

- HART has issued RFCRs to the contractor for identified HDOT betterments. Work is anticipated to begin after issuance of a change order.

KEY ISSUES:

- **Noise Complaints** – HART continues to work with KIWC to respond to and mitigate noise complaints along the KHG alignment. Noise monitoring stations have been installed to assist in the monitoring of the construction activities and work hours have been adjusted accordingly. KIWC and HART will continue to monitor the entire alignment to ensure compliance.
- **HDOT Betterments** – HART has issued eight RFCRs to date covering HDOT betterments and have commenced negotiations with KIWC, simultaneously obtaining scope and cost concurrence from HDOT. HART and HDOT are working in partnership to identify the source of funding, which is being finalized via a separate agreement. HART and HDOT have agreed on a funding commitment MOU to allow HART to move forward with requested betterments.
- **Third Party Utility Impacts** – HART is working together with HECO at all levels of the project, including the executive level to resolve utility impacts. These impacts currently affecting the project range from HECO 12kv, 46kv and 138kv clearance issues, as well as relocation schedule certainty.
- **KIWC Resource Allocations** – KIWC continues to try and balance between the KHG and WOFH projects which is creating a lack of production on the KHG contract.

QUALITY MANAGEMENT:

- **Quality Process** – KIWC continues to follow an established quality process and have not encountered 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 12 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
96	63	33

PROJECT PICTURES:



Placing column concrete, Phase 1.



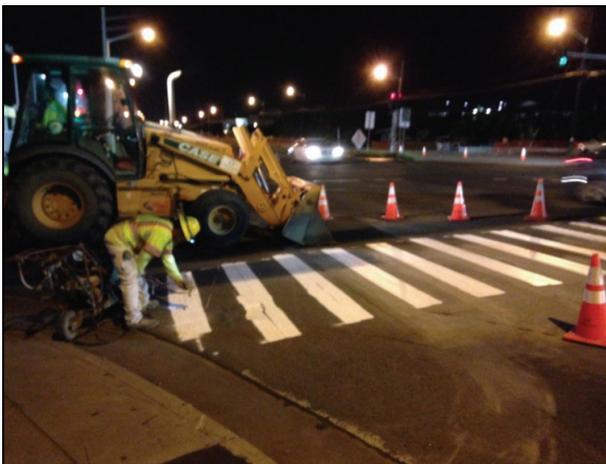
Setting stringer supports at BCS, Phase 4.



Balanced cantilever pier table, Phase 4.



Drilling shaft 321, Phase 5.



Restriping Hekaha crosswalk, Phase 6.



Installing utility pole risers, Phase 12.

B. Ramp H2R2

Contract No.: DBB-385
Contractor: Royal Contracting Co. Ltd.
Contract Start Date: May 2015
Contract Substantial Completion: June 2016
Projected Substantial Completion: November 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. Royal has not yet started construction due to delays in obtaining required permits and submittal of required documentation. The contractor has projected a substantial completion of November 2016; HART has requested a revised schedule for review and analysis.

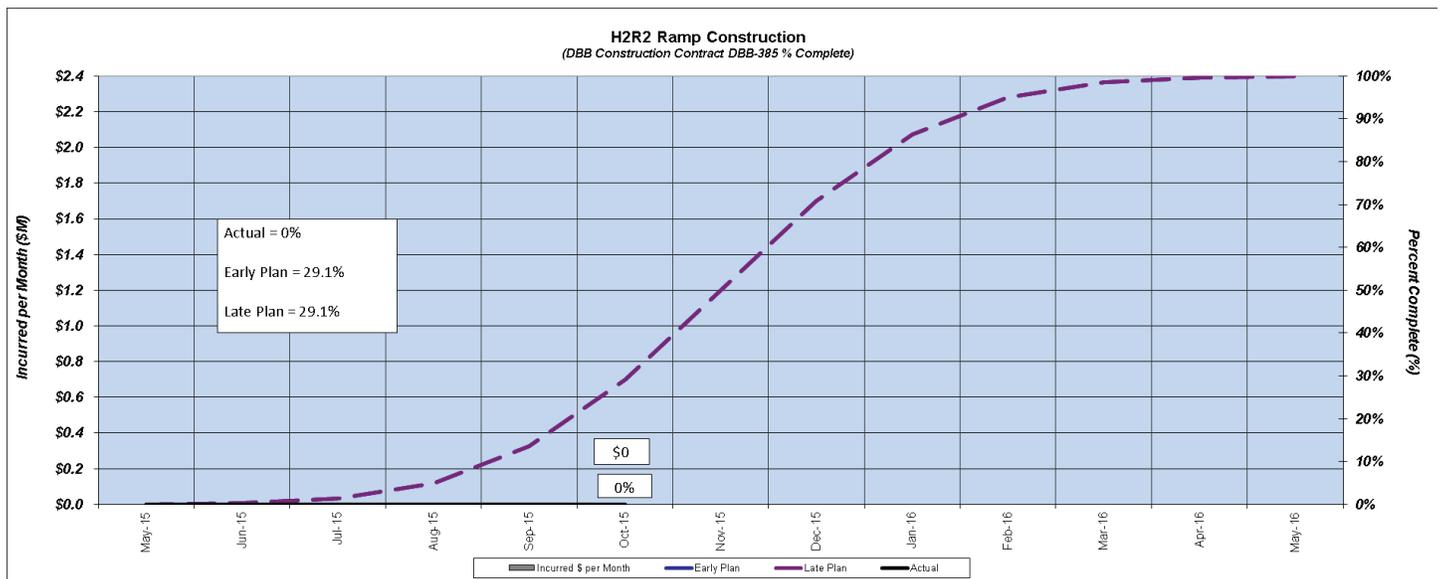
COST INFORMATION:

<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 October:</u>	<u>\$0</u>

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

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

October 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:

October 2015 Update							Data Date: 30-Oct-15, Printed On: 16-Nov-15		
Activity Name	Start	Finish	2015		2016				
			Q3	Q4	Q1	Q2	Q3		
H2R2 Ramp	18-May-15 A	17-Jun-16							
H2R2 Ramp Construction	18-May-15 A	17-Jun-16							

CRITICAL PATH ISSUES:

- Contractor has received an NPDES permit, and has submitted for HDOT work permits.
- TMK 9-6-004:006 soils remediation is complete and awaiting testing.

WORK PROGRESS:

Activities this Month:

Earned Value: 0%; Planned Value: 0%

- Required Forms, Reports and Certifications continue to be submitted.
- Required submittals reviewed and returned for revision.

Look Ahead:

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

KEY ISSUES:

- Contractor to submit revised work schedule.

QUALITY MANAGEMENT:

H2R2 NCR Log		
Total NCRs Issued To Date	CLOSED	OPEN
0	0	0

C. Kamehameha Highway Station Group (KHSB)

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 (bids received)

Project Description: The Kamehameha Highway Stations Group FD Contract (KHSB) 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 KHSB 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 KHSB design has incorporated value engineering changes and was advertised in a construction solicitation in August 2015. The corresponding bids received in November 2015 showed significant cost savings as compared to the prior solicitation for these same stations in 2014. In addition, the H2R2 Ramp was expedited under a separate Design-Bid-Build contract that was awarded in May 2015.

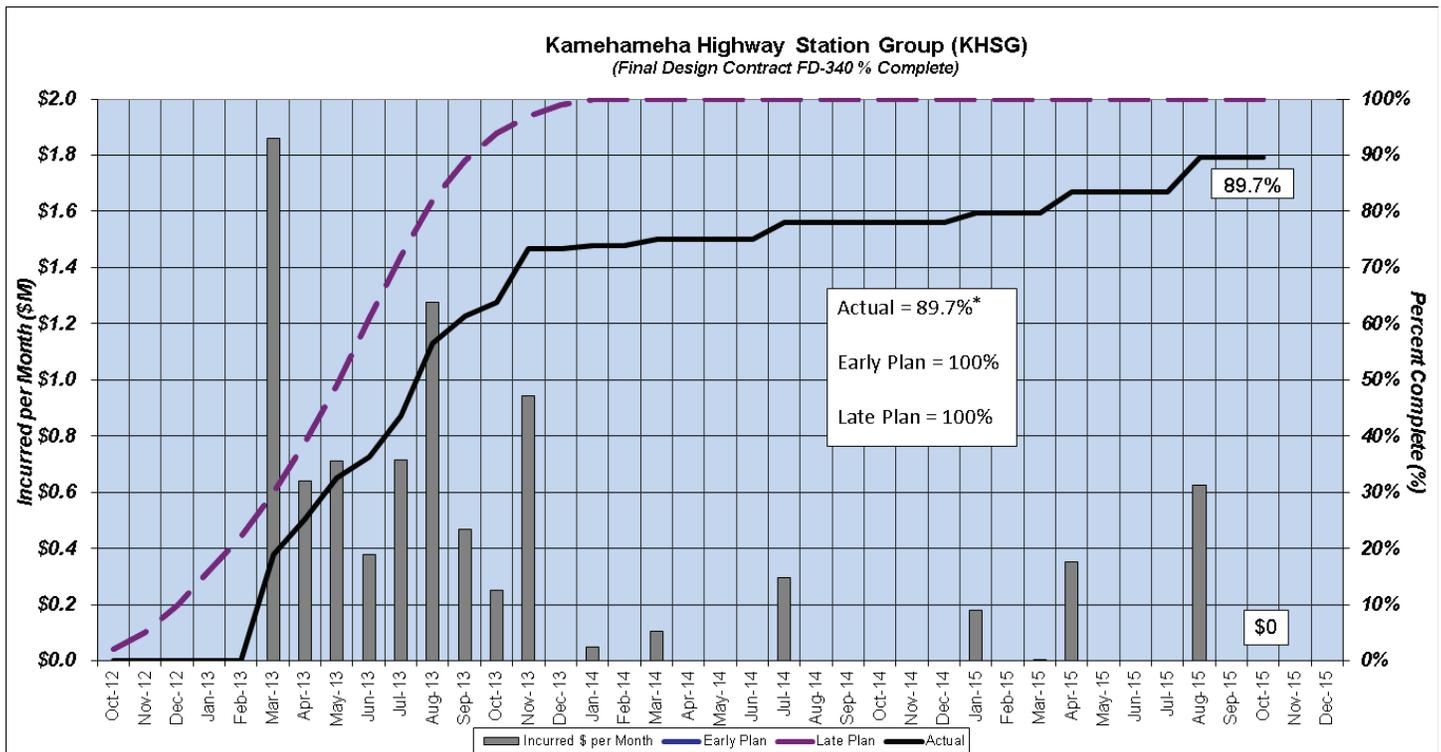
COST INFORMATION:

<u>Original Contract:</u>	<u>\$8,702,592</u>	<u>Incurred-to-Date:</u>	<u>\$8,843,841</u>
<u>Current Contract Value¹:</u>	<u>\$9,859,290</u>	<u>Incurred in October:</u>	<u>\$0</u>

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%

October Change Orders/Amendments		
Change No./Amend	Description	Amount (\$)
CA 0008	Interface Management Ext	\$163,000
CA 0009	NTP 4 Replenishment	\$60,000
Cumulative to Date		\$1,199,698



*Actual percentage adjusted due to amendments increasing the contract value. 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:

October 2015 Update			Data Date: 30-Oct-15, Printed On: 28-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	30-Jul-18																
Kamehameha Highway Station Group	16-May-14 A	30-Jul-18																
Design - Kamehameha Highway Station Group	16-May-14 A	30-Jul-18																
Design - Bid Support	16-May-14 A	18-Jan-16	█	█	█													
Design - Construction Support	19-Jan-16	30-Jul-18				█	█	█	█	█	█	█	█	█	█	█	█	
Construction - Kamehameha Highway Station Group	01-Mar-16	30-Jul-18																
Pearl Highlands - Station	01-Mar-16	29-Jun-18				█	█	█	█	█	█	█	█	█	█	█	█	
Pearl Ridge Station	01-Jun-16	29-Jun-18					█	█	█	█	█	█	█	█	█	█	█	
Aloha Stadium Station	03-Oct-16	30-Jul-18								█	█	█	█	█	█	█	█	

CRITICAL PATH ISSUES:

- Obtaining final design approvals from HDOT and DPP.

WORK PROGRESS:

Activities this Month:

- Current earned value is approximately 99%.
- Construction bids received on Nov. 17, 2015.

Look Ahead:

- Conform drawings and specifications based on addenda issued during solicitation.
- Obtain final HDOT and DPP approvals on final construction documents.
- Transition consultant’s role from design support during bidding to design support during construction.

KEY ISSUES:

- Finalizing interface agreements with other HART contractors.

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.

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.

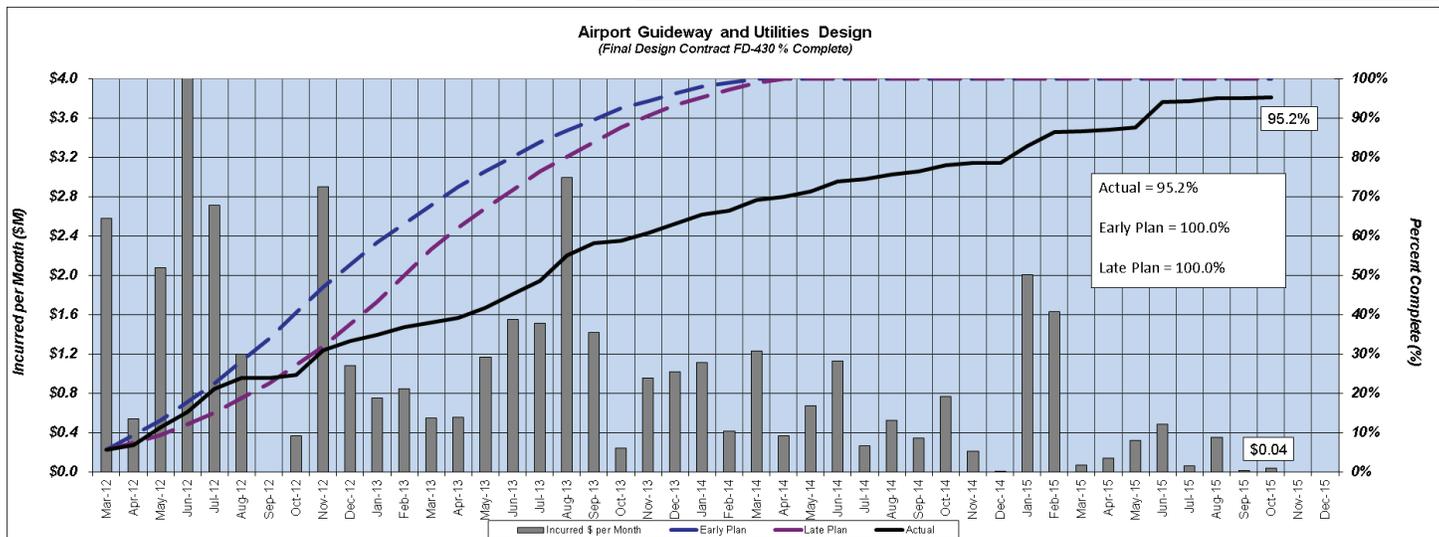
COST INFORMATION:

<u>Original Contract:</u> \$38,840,960	<u>Incurred-to-Date:</u> \$41,073,203
<u>Current Contract Value¹:</u> \$43,134,472	<u>Incurred in October:</u> \$44,380

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%

October 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:

October 2015 Update			Data Date: 30-Oct-15, Printed On: 06-Nov-15																			
Activity Name	Start	Finish	2015				2016				2017				2018				2019			
			Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Airport Section Guideway	09-Nov-11 A	19-Jul-19																				
Airport Programmatic	01-May-12A	14-Feb-14 A																				
Airport Permits	09-Nov-11 A	09-May-16																				
Design - Airport Guideway & Utilities	05-Jan-12A	27-Mar-15 A																				
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 96.7%.
- Supporting AGS DB procurement.

Look Ahead:

- Award of AGS 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/September 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.

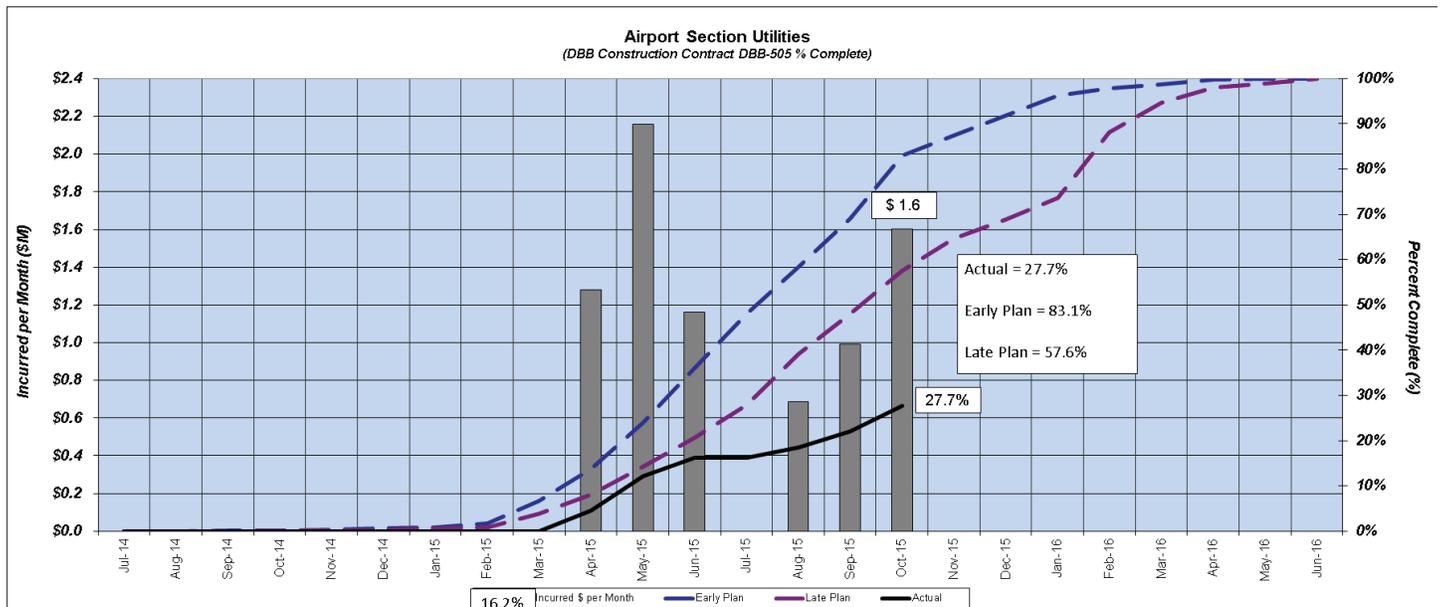
COST INFORMATION:

Original Contract:	\$28,413,974	Incurred-to-Date:	\$7,873,650
Current Contract Value ¹ :	\$28,413,974	Incurred in October:	\$1,601,041

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

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

October 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:

October 2015 Update					Data Date: 30-Oct-15, Printed On: 06-Nov-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	06-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: 25%; Planned Value: 28%

- Nan, Inc. has received approved permits to work in DOT-Airport property. (Revocable permit has been approved.)
- Nan, Inc./CEI are finalizing coordination with DTS to bring the LPR's online by the end of the year.
- 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) is ongoing.

Look Ahead:

- Petroleum contaminated soils, have been accepted and transferred to PVT. Approval for sewer contaminated spoils is pending.
- Ongoing utility work on Kamehameha Highway (30-inch & 24-inch waterline 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.
- Pending coordination with the Navy if a 30-inch waterline connection can be completed at the station site.
- Awaiting Nan's cost/schedule of work to relocate a section of 24-inch waterline that is not correctly shown on the design plans.

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
16	13	3

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. Project is currently in a close out phase; final change orders are being processed.

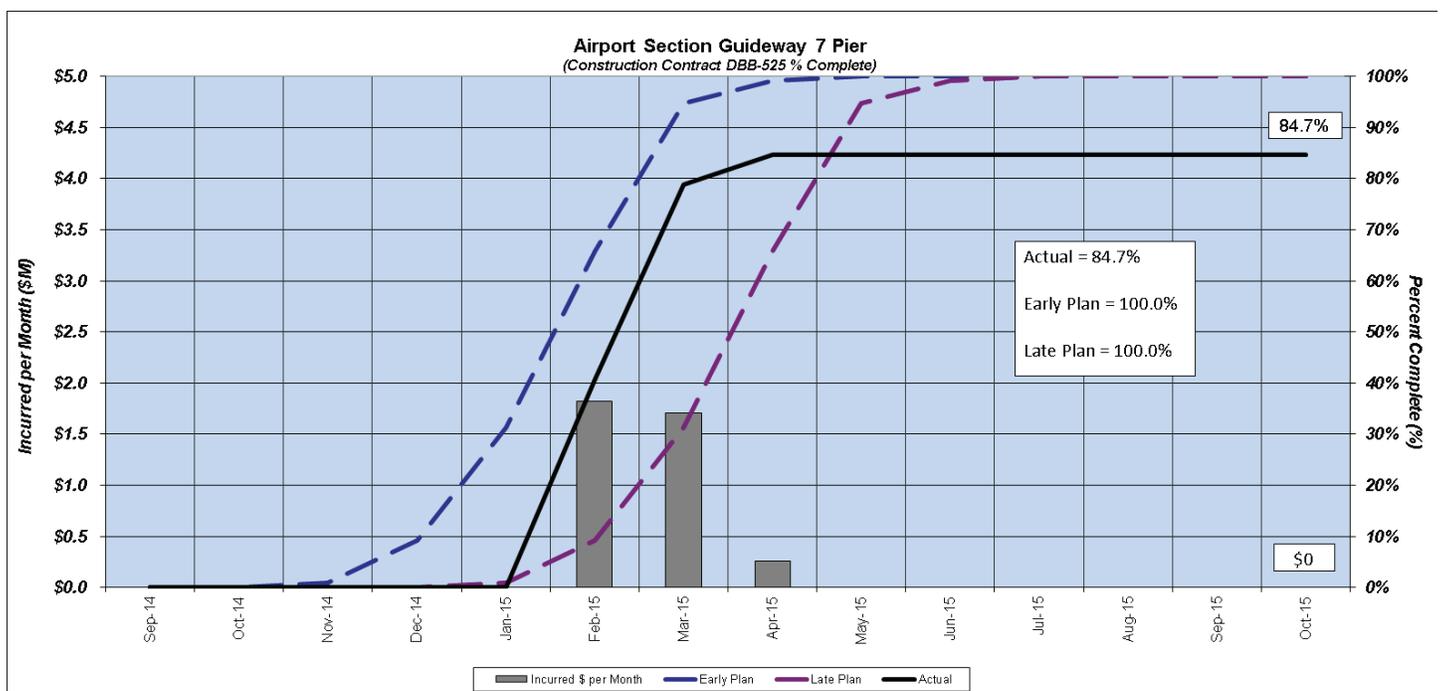
COST INFORMATION:

<u>Original Contract:</u>	<u>\$3,973,000</u>	<u>Incurred-to-Date:</u>	<u>\$3,796,241</u>
<u>Current Contract Value¹:</u>	<u>\$4,481,241</u>	<u>Incurred in October:</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%

October 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 construction work has been completed; currently a final Change Order is in process and project close out and final invoicing will follow upon execution.
-

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:
 - Final signed Change Order.
 - 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.

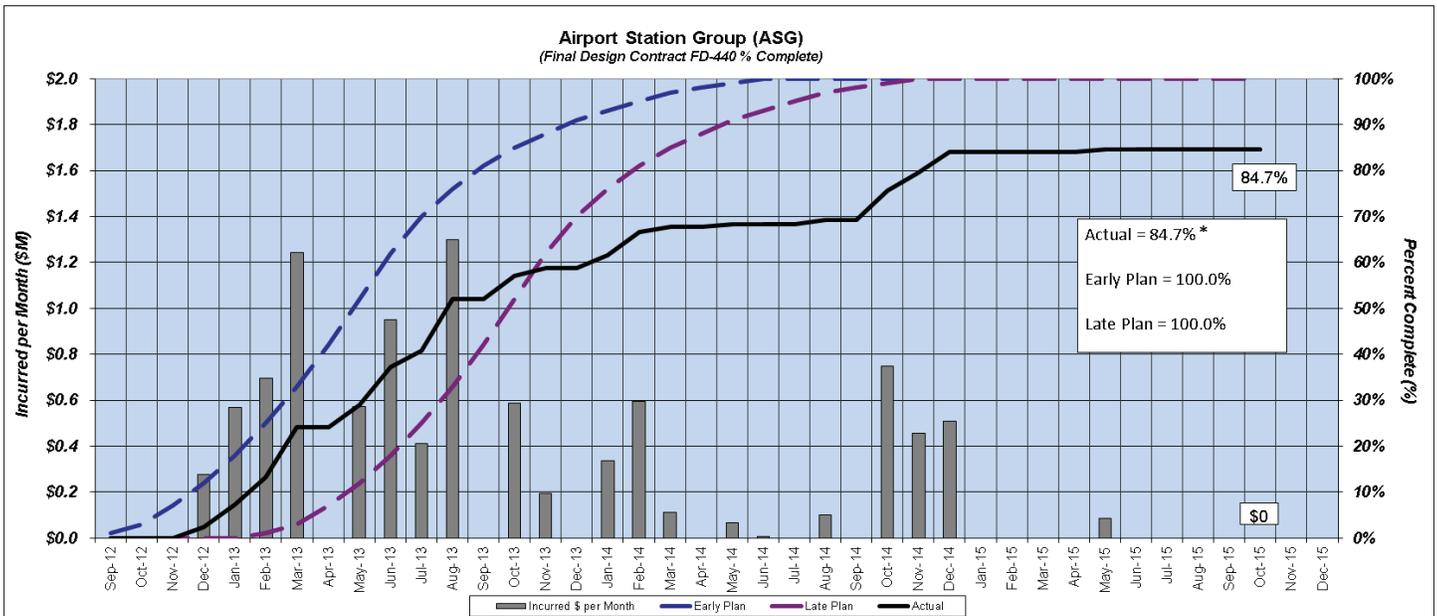
COST INFORMATION:

<u>Original Contract:</u> \$10,177,365	<u>Incurred-to-Date:</u> \$9,801,978
<u>Current Contract Value¹:</u> \$11,573,852	<u>Incurred in October:</u> \$0

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%

October Change Orders		
Change No.	Description	Amount (\$)
CA0006	GET Credit	(\$98,353)
Cumulative to Date		\$1,416,487



Actual percentage adjusted due to typographical error. 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:

October 2015 Update			Data Date: 30-Oct-15, Printed On: 06-Nov-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																
HNI 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% and is not anticipated to increase significantly due to the suspension of design activities unnecessary for a DB delivery.

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 to be released in December 2015. An expedited package consisting of early utility and roadway widening work is anticipated for January 2016.

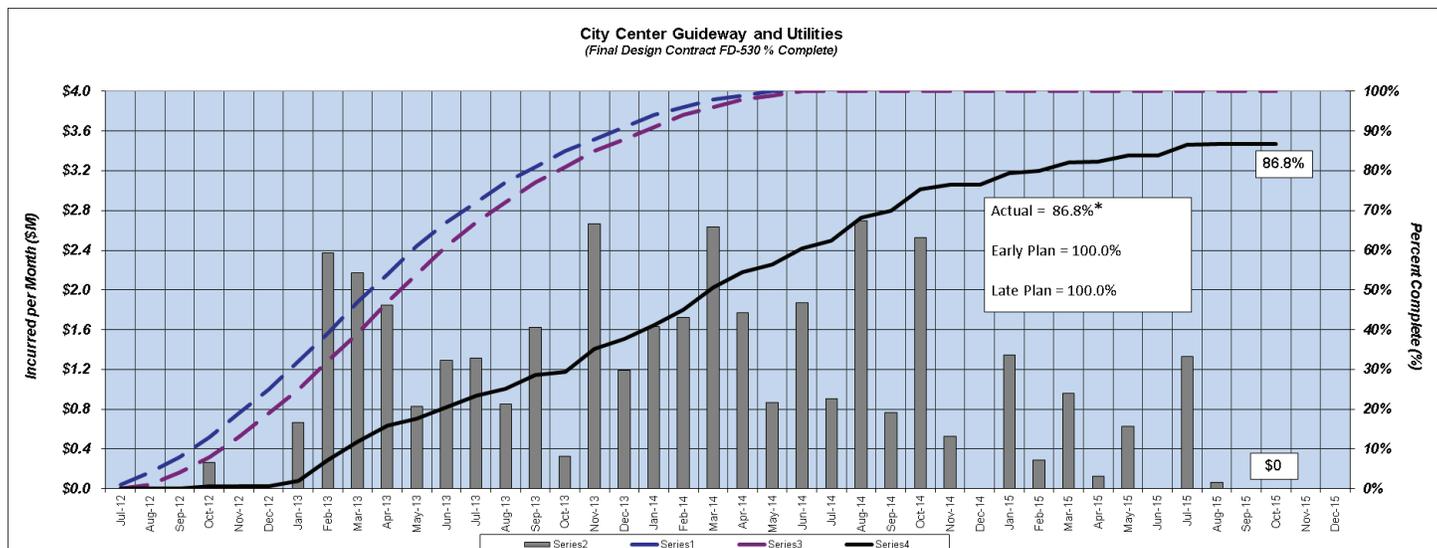
COST INFORMATION:

<u>Original Contract:</u> \$43,948,220	<u>Incurred-to-Date:</u> \$40,075,486
<u>Current Contract Value¹:</u> \$46,183,523	<u>Incurred in October²:</u> (\$208,694)

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

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



*Actual percentage adjusted due to payment request adjustment.

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:

October 2015 Update			Data Date: 30-Oct-15, Printed On: 06-Nov-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
City Center Section Guideway	19-Aug-11 A	31-Dec-19																				
City Center Programmatic	01-Nov-11 A	05-Oct-15 A																				
City Center Permits	19-Aug-11 A	08-Dec-16																				
Design - City Center Guideway & Utilities	01-Jul-12 A	03-May-15 A																				
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).
- Preparation of DB RFP Part 2 documents.

Look Ahead:

- Obtain third-party approvals of design concepts.
- Determine appropriate scope to include in expedited utilities package.
- Finalize requirements for DB bid package.
- Additional field investigations to verify locations of existing utilities prior to construction.

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.

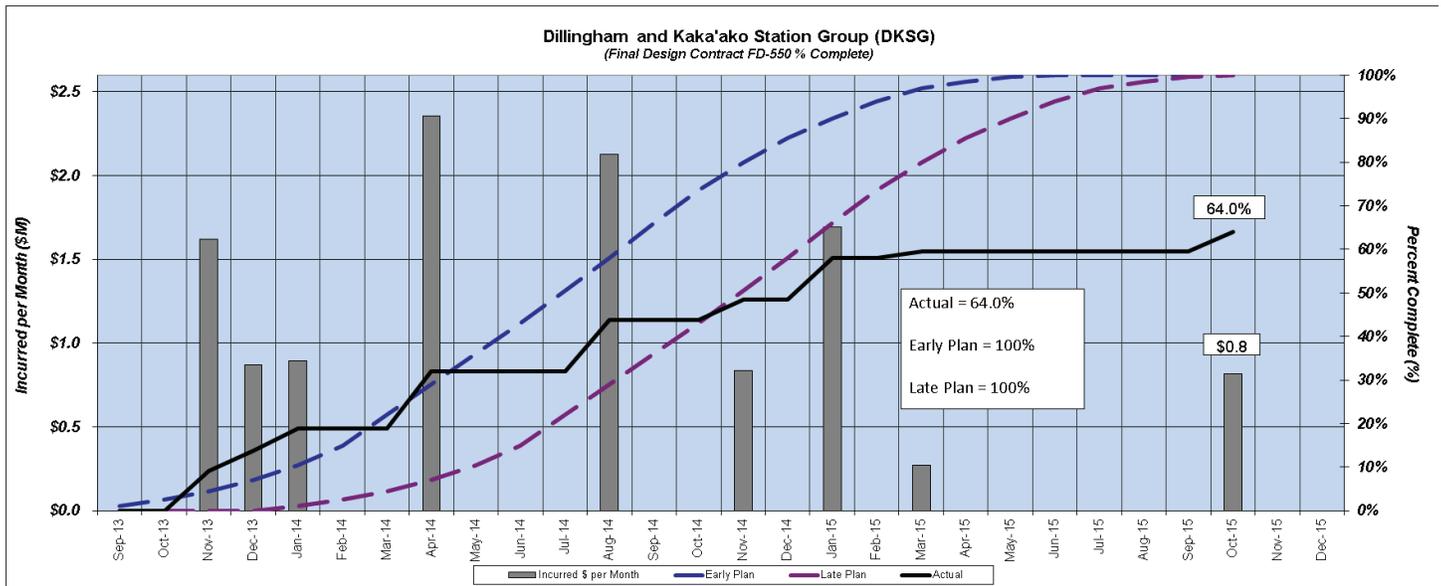
COST INFORMATION:

<u>Original Contract:</u> \$18,321,918	<u>Incurred-to-Date:</u> \$11,482,105
<u>Current Contract Value¹:</u> \$19,308,042	<u>Incurred in October:</u> \$814,605

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

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

October 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.

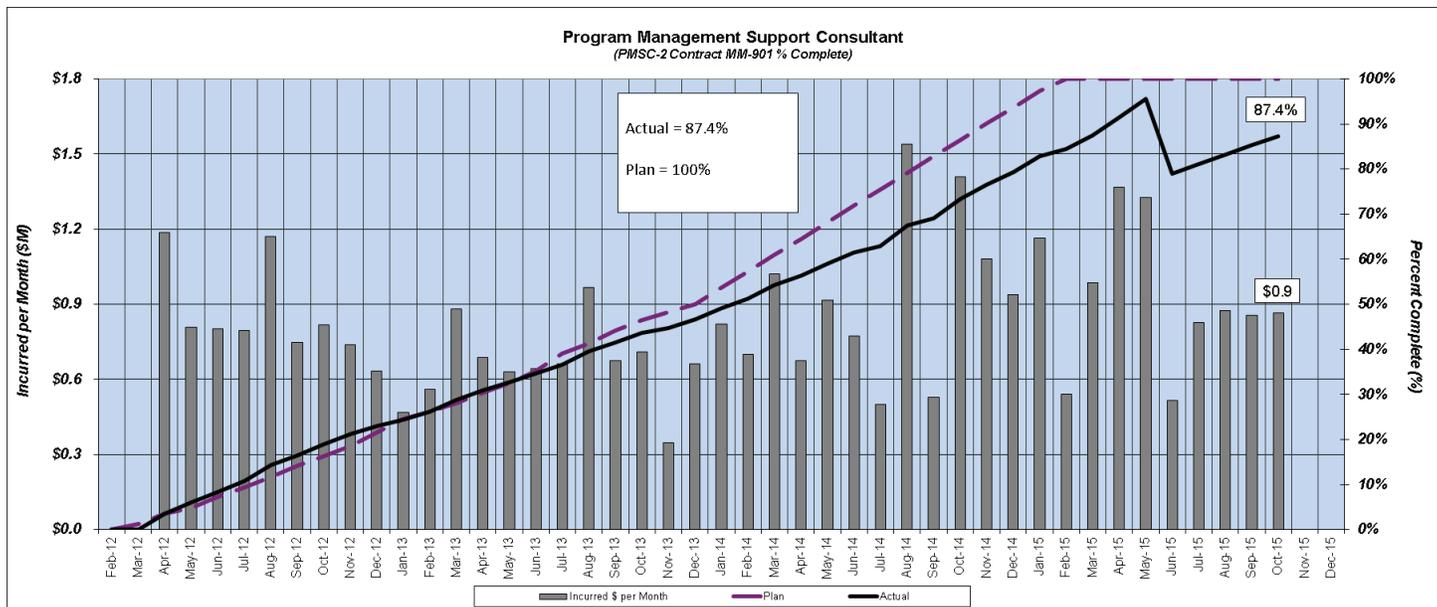
COST INFORMATION:

Original Contract:	\$33,376,897	Incurred-to-Date:	\$35,809,242
Current Contract Value ¹ :	\$40,993,274	Incurred in October:	\$864,106

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

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

October 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 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.

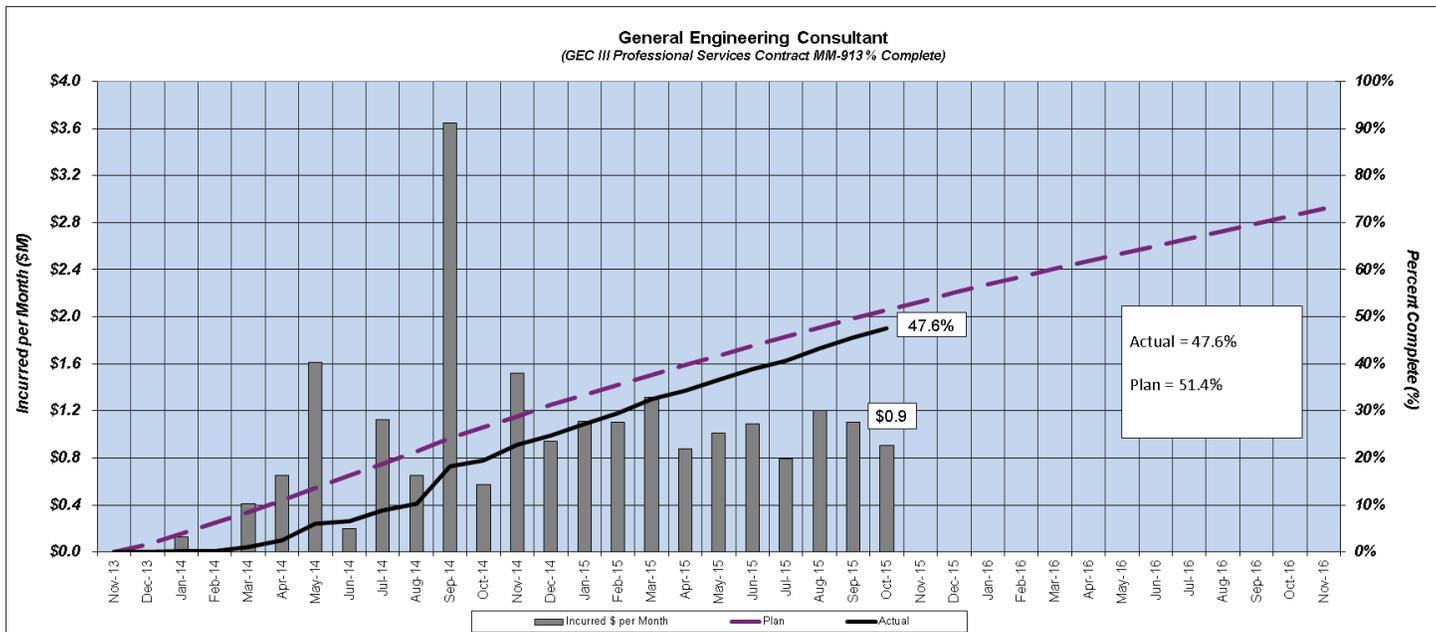
COST INFORMATION:

<u>Original Contract:</u>	<u>\$46,143,277</u>	<u>Incurred-to-Date:</u>	<u>\$21,954,215</u>
<u>Current Contract Value¹:</u>	<u>\$46,143,277</u>	<u>Incurred in October:</u>	<u>\$902,855</u>

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

DBE Participation	
Actual DBE Participation:	\$1,797,324
DBE % Attained:	3.90%

October 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 (CCGS).

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.

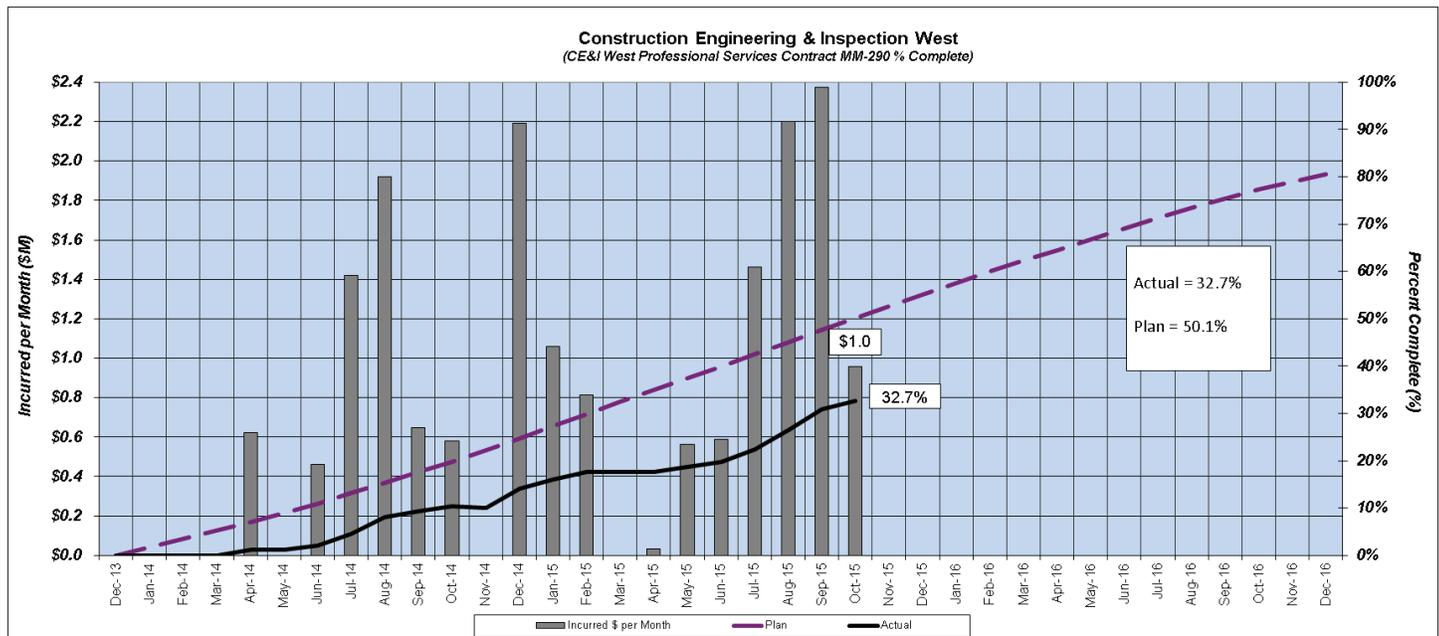
COST INFORMATION:

<u>Original Contract:</u>	<u>\$54,232,480</u>	<u>Incurred-to-Date:</u>	<u>\$17,725,316</u>
<u>Current Contract Value¹:</u>	<u>\$54,232,480</u>	<u>Incurred in October:</u>	<u>\$ 958,702</u>

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

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

October 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)

Substantial Completion: October 2015

Project Description: The URS team provided 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).

CE&I services included: 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 was 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.

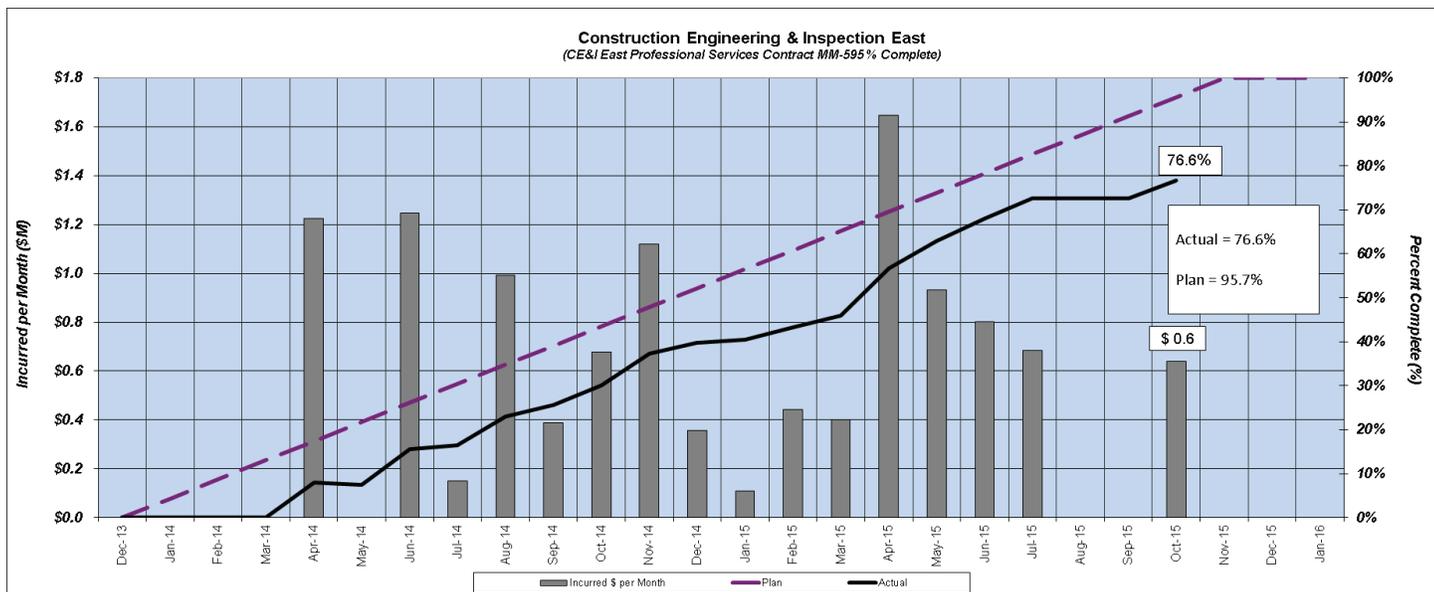
COST INFORMATION:

<u>Original Contract:</u>	<u>\$63,083,417</u>	<u>Incurred-to-Date:</u>	<u>\$11,686,318</u>
<u>Current Contract Value¹:</u>	<u>\$15,257,000</u>	<u>Incurred in October:</u>	<u>\$640,764</u>

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

DBE Participation	
Actual DBE Participation:	\$1,487,444
DBE % Attained:	2.36%

October 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 in October 2015, and the final closeout of the URS contract is ongoing. Once the contract is closed, this contract page will be removed from the Progress Report.

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 has assumed the responsibility for Construction, Engineering and Inspection (CE&I) services for the East Section of the Honolulu Rail Transit Project (H RTP) 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, GIS support, and claims analysis for the Airport Guideway and Stations design-build contract, City Center Guideway and Stations design-build contract, Airport Section Utilities Construction contract, Dillingham Utilities and Roadway contract, Elevators and Escalators Design-Furnish-Install-Maintain contract (construction phase only) and Construction On-Call work. The primary role of the Stantec 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.

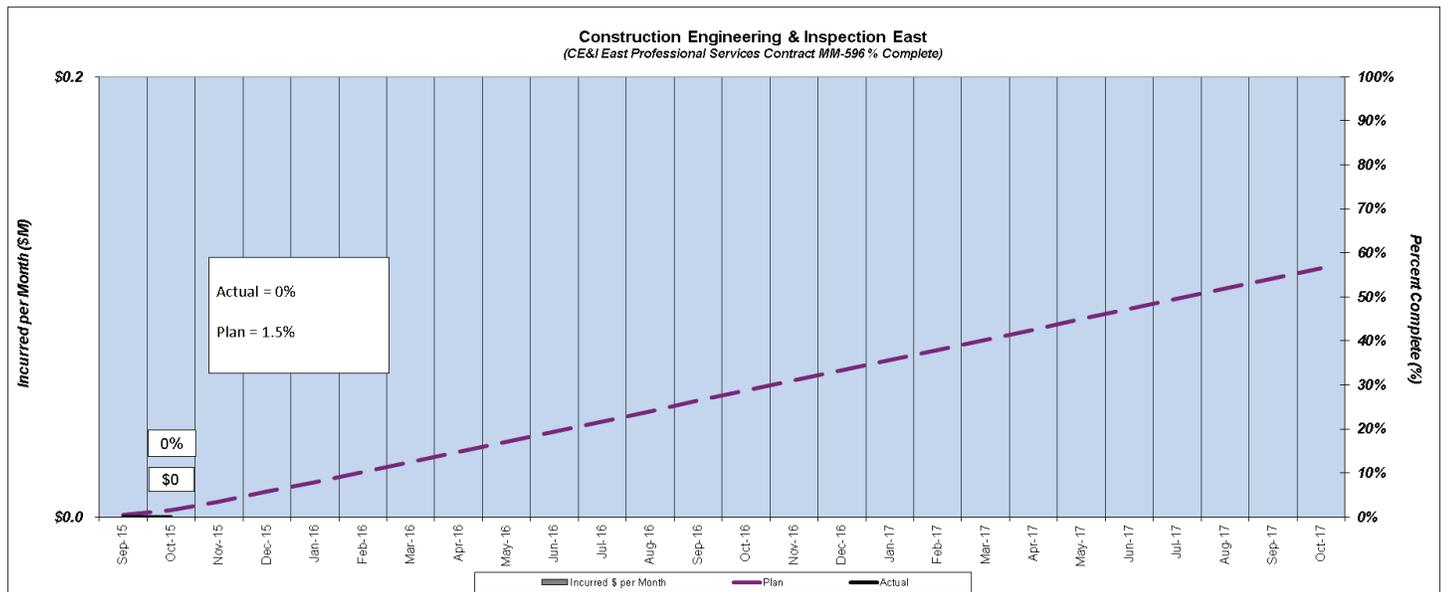
COST INFORMATION:

<u>Original Contract:</u>	<u>\$55,036,130</u>	<u>Incurred-to-Date:</u>	<u>\$0</u>
<u>Current Contract Value¹:</u>	<u>\$55,036,130</u>	<u>Incurred in October:</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%

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



KEY ISSUES:

- The East Section CE&I II team is completing the review and submittal of the NTP deliverables due (90) days after NTP (Sept. 14, 2015). The project team is completing the documents as planned, and is scheduled to have all documents submitted to HART for review and acceptance by January 2016.
- HART has requested an ICE (Independent Cost Estimate) be performed on the Airport Guideway and Stations DBB contract, the Dillingham Utilities and Roadway DBB contract, and the City Center Guideway and Stations DBB contract. The ICE's are currently in process, and scheduled to be delivered to HART March 2016.

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.

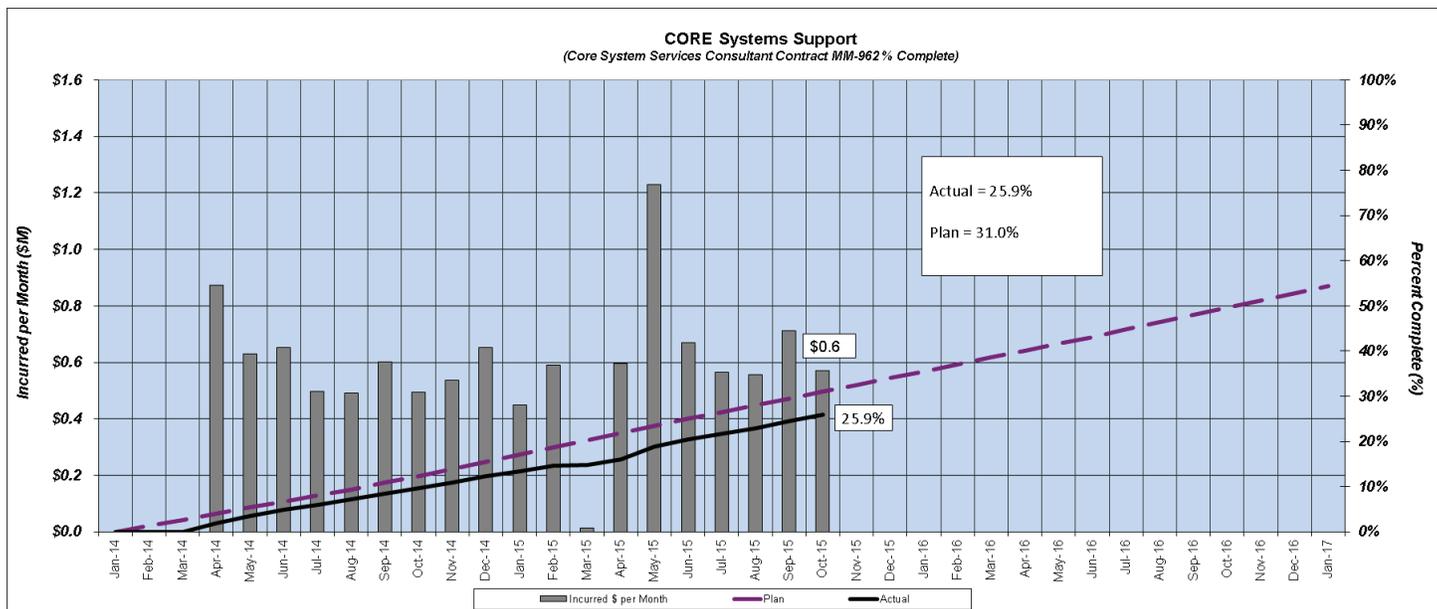
COST INFORMATION:

<u>Original Contract:</u>	<u>\$43,988,989</u>	<u>Incurred-to-Date:</u>	<u>\$11,382,948</u>
<u>Current Contract Value¹:</u>	<u>\$43,988,989</u>	<u>Incurred in October:</u>	<u>\$569,986</u>

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

DBE Participation	
Actual DBE Participation:	\$281,440
DBE % Attained:	0.64%

October 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.

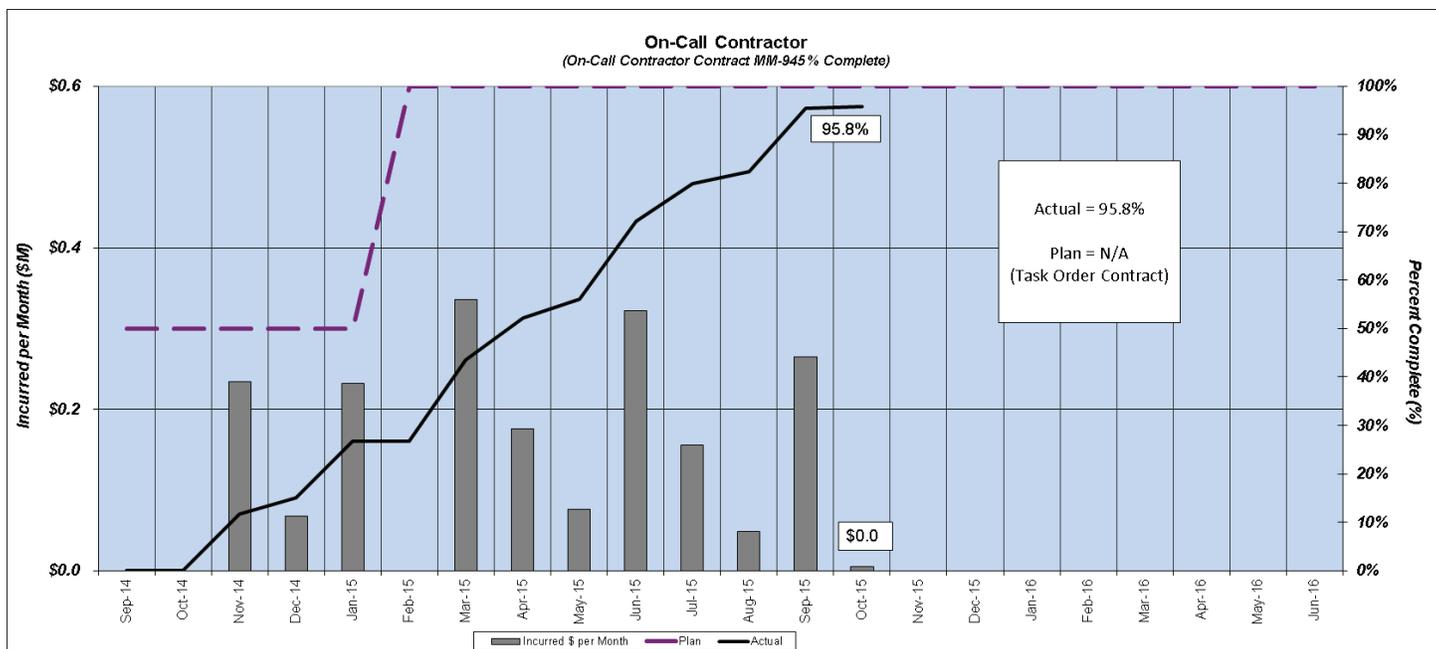
Project Description: The On-Call Contract performs tasks not generally covered in the general construction contracts. These activities include demolition of structures; repairs to existing HART facilities; relocation of trees and other minor facilities such as bus stops, street lighting, etc.; minor 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> \$1,000,000	<u>Incurred-to-Date:</u> \$1,916,645
<u>Current Contract Value¹:</u> \$2,000,000	<u>Incurred in October:</u> \$5,575
¹ Current Contract Value = Original contract value (not including contingency) + executed Change Orders	

DBE Participation	
Actual DBE Participation:	\$460,024
DBE % Attained:	23%

October Change Orders		
Change No.	Description	Amount (\$)
Amend 01	Adjustment	\$49
Cumulative to Date		\$1,000,000



KEY ISSUES:

- The On-Call Contractor has successfully:
 - demolished twenty-six buildings located in the WOFH, KHG and City Center right-of-way. All available demolition work has now been completed.
 - relocated/removed more than 70 trees in the Airport right-of-way. Four trees located along Dillingham were relocated in November.
 - 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.
- Twenty-six (26) of the 28 buildings targeted for demolition were completed by the end of November. 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 continued during the month of November.
- Continued to support the Core Systems contractor for work at MSF.
- Continued to support the Airport Utility contractors work by performing asbestos abatement.

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.

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 Nov. 2, 2015)

OVERVIEW

- Currently, there are no ROW actions impeding construction work. Site control has been obtained for nearly 14 million square feet or 93% 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 is continuing for parcels that may require eminent domain proceedings, although HART is simultaneously negotiating 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:
 - Seven (7) cases were presented to the HART Board on Aug. 27, 2015, primarily to support the schedule for the City Center Guideway and Stations Design-Build (DB) contract. The HART Board approved the resolutions and five of the cases were forwarded to the Honolulu City Council. Two cases required amendments and were withheld. HART anticipates bringing these cases back to the HART Board for their Nov. 24 meeting.
 - Four (4) 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 Nov. 24 meeting.
 - The Honolulu City Council process has been completed for the following cases. While the HART Board has proceeded by approving the resolutions authorizing eminent domain, the HART staff is still striving to reach an agreement with each owner.
 - Five (5) cases were initiated in May 2015, to support the schedule for the Airport Guideway and Stations DB contract.
 - Twenty (20) cases were initiated in June 2015, primarily to support the schedule for the City Center Guideway and Stations DB contract.
 - Four (4) cases were initiated in July 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.
- 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 City Center Preconstruction activities.
- HART submitted a letter requesting determination of permit required to the US Army Corps of Engineers (USACE) and the Section 404 application for Kapalama Stream.
- HART will be continuing consultation with FTA regarding Essential Fish Habitat for City Center segment streams.

- **Permits and Approvals Granted**

- HART received an approval from the HDOH for the Pearl Highlands H2 Ramp (H2R2) National Pollutant Discharge Elimination System construction permit, which enables the discharge of storm water from the project to receiving state waters.

- **Look Ahead**

- Upcoming significant permit activity:
 - HART will submit a Stream Channel Alteration Permit (SCAP) application for Kalihi Stream.
 - HART will submit the Noise Permit Variance application for the City Center construction activities.
 - HART will submit a letter requesting determination of permit required to the USACE and the 404 application for Nuuanu and Kalihi Streams.

5.2 Hawai'i Department of Transportation (HDOT) Agreements

- **Activities this month**

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

- **Look Ahead**

- 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 with KHG & City Center	12/26/13		Including with Airport	
	NTP	5/12/11	12/21/11							
	Amd 01	7/1/11	HRS Ch 104			HRS Ch 104			Temp Poles	
AT&T (Government Solutions)	Executed			12/26/13		Separate from AT&T Corp	12/26/13		Separate from 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							Temp Poles
	Amd 01	7/1/11		4/13/15					Temp Poles	
	Amd 02	5/10/12								
HECO	Executed	4/20/12 Agreement superseded by Design & Construction Services Agreements - closing out		7/12/12 Agreement superseded by Design & Construction Services Agreements - closing out		Airport (2) and City Center Bridging Agreements superseded by Design Services Agreements - closing out				
	NTP									
		Pre-Construction - closing out		Pre-Construction - closing out						
	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	
	Memorandums of Understanding	8/7/14 – Construction Drawings								
		5/1/15 - Access								
		5/15/15 - Derrick Truck								
		6/23/15 - Master Agreement								
6/9/15 - MSF Advanced Construction										
9/16/15 -- Right of Entry										
10/12/15 – Clearance (West)					Dillingham Blvd Materials-with HECO for signature					
Power Quality Pending										
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		HRS Ch 104	HRS Ch 104			Temp Poles	
	Amd 02	10/7/13	HRS Ch 104						HRS Ch 104	
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	HRS Ch 104							
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	HRS Ch 104		HRS Ch 104		
	Amd 02		HRS Ch 104		10/23/15					
	Amd 03				HRS Ch 104					

Utility Agreements Status Matrix

Utility Owner	Status	WOFH		KHG		Airport		City Center	
		ESA	UCA	ESA	UCA	UCA	COMBINED ESA	UCA	
TW telecom	Executed	12/2/09		2/14/12	Oceanic to relocate for TW telecom		10/11/12		Draft sent to TW telecom Temp Poles
	NTP	12/22/09		2/16/12					
	Amd 01	7/1/11						Temp Poles	
	Amd 02							HRS Ch 104	
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				
	Amd 03				HRS Ch 104				

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

WOFH

- All WOFH agreements have been executed.

KHG

- All KHG agreements have been executed.

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 Nov. 2, 2015)

BUDGET

	Baseline Budget	Expended	Remaining Budget Balance	Estimate to Completion	Forecast Variance
Acquisition	\$ 201.70	\$ 75.90	\$ 125.80	\$ 112.10	\$ 13.70
Relocation	\$ 20.50	\$ 9.20	\$ 11.30	\$ 15.90	\$ (4.60)
Total (Million)	\$ 222.20	\$ 85.10	\$ 137.10	\$ 128.00	\$ 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	16	15	1	2	16	13	16	15
Kamehameha	3		3	3	3			3	1	3	3
Airport	5		5	5	5	1		5	3	4	4
City Center	18		18	18	18			16	14	13	16
TOTAL	42		42	42	41	2	2	40	31	36	38
Partial Acquisition											
W.Oahu\Farrington	3		3	3	3			3		2	2
Kamehameha	4		4	3	2	1		3		3	1
Airport	11		11	11	7		1	6		4	1
City Center	87		86	86	25	2		9		3	3
TOTAL	105		104	103	37	3	1	21		12	7
Easement											
W.Oahu\Farrington	16		16	15	15		6	12		10	6
Kamehameha	6		6	6	6		1	6		6	1
Airport	34		34	34	28		2	27		27	2
City Center	20		20	20	9		1	1		1	1
TOTAL	76		76	75	58		10	46		44	10
GRAND TOTAL	223		222	220	136	5	13	107	31	92	55

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:
 - Continuing negotiations with UH West O'ahu to secure construction right of entry for the WOFH guideway.

KAMEHAMEHA

- Issues:
 - 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 the latest 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 an attempt to reach mutual agreement.

AIRPORT

- Issues:
 - Continuing negotiations with the Post Office.
 - Closely monitoring the Airport Station mapping process.
 - Requesting new appraisal due to design changes for TMKs 1-2-013-020 and 1-2-013-021.
 - 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.
 - 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.
 - Through 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:
 - 1 Order of Possession obtained
 - 3 in escrow
 - 4 in negotiations
- 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.
 - Working to resolve issues with TMKs 1-2-009-011 and 1-2-009-098.
 - Negotiating with owner of fourteen parcels which have complex issues.
 - 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.
 - 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.

- Through July, the HART Board approved the resolutions to notify the Honolulu City Council of eminent domain. HART has received eminent domain approval on most of the cases and the status of the cases are:
 - 2 obtained by Order of Possession
 - 3 acquired
 - 6 in escrow
 - 9 in negotiations
 - 1 rejected by the Honolulu City Council
 - 1 to be resubmitted due to design changes
- 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	47	23	50
Grand Total:	34	89	1	124	52	72	34	86

WEST O’AHU/FARRINGTON

- Look Ahead:
 - The Phase II Environmental Site Assessment 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
City Agreements				
City Joint Use Memorandum of Understanding	Pending	March 2016	WOFH, KHG, Airport, City Center	In process.
DFM – Dept. of Facility & Maintenance (Kamehameha Hwy/Makalapa Manor)	Executed		Airport	Jurisdictional transfer from DFM to HART in place.
DPR - Dept. of Parks & Recreation (MSF drainage)	Executed		WOFH	Consent to construct in place.
State Agreements				
UH - University of Hawai'i 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	Consent to construct in place.
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	Consent to construct in place.
UH - Leeward Community College (LCC) Construction Right of Entry for Guideway	Executed		WOFH	Consent to construct in place.
UH - Leeward Community College (LCC) Construction Right of Entry for Station	Executed		WOFH	Consent to construct in place.
UH - Urban Garden Pre-Construction Right of Entry	Executed		KHG	Consent to construct in place.
UH - Urban Garden Construction Right of Entry	Executed		KHG	Consent to construct in place.
UH - Urban Garden Kiewit Construction Right of Entry	Executed		KHG	Consent to construct in place.
UH - Honolulu Community College (HCC) Pre-Construction Right of Entry	Executed		City Center	Consent to construct in place.
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.
DLNR – Dept. of Land and Natural Resources Kapolei Right of Entry	Executed		WOFH	Consent to construct in place.
DLNR – Kapolei Easement	Pending	March 2016	WOFH	Easement documents in process.
DLNR – Keehi Lagoon Right of Entry	Executed		Airport	Consent to construct in place.
DLNR – Keehi Lagoon Easement	Pending	March 2016	Airport	Process Easement Agreement.
DOE – Dept. 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	MOU in place.
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	Consent to construct in place.
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	March 2016	KHG	Easement in process.

Third-Party Agreements				
Agreement	Status	Target	Section	Notes/Remarks
Aloha Stadium / Department of Accounting & General Services (DAGS) Easement for guideway	Pending	March 2016	KHG	Process Easement Agreement.
HDOT(H) – Dept. of Transportation Highways Master Agreement	Executed		WOFH	Master Agreement in place.
HDOT(H) - Master Agreement for KHG, Airport and City Center	Executed		KHG, Airport, City Center	Master Agreement in place.
HDOT(H) – Joint Use & Occupancy (JU&O) Sub-agreement	Executed		WOFH	Consent to construct in place.
HDOT(H) – Joint Use & Occupancy (JU&O) Sub-agreement	Executed		KHG	Consent to construct in place.
HDOT(A) – Dept. of Transportation Airports Joint Use & Occupancy (JU&O) Sub-agreement for Airport Division parcels	Executed		Airport	Consent to construct in place.
HDOT(A) – Dept. of Transportation Airports Joint Use & Occupancy (JU&O) Sub-agreement for Airport leased/revenue parcels	Pending	January 2016	Airport	Sub-agreement in process.
HDOT(A) - Joint Use & Occupancy (JU&O) Sub-agreement	Pending	January 2016	City Center	Sub-agreement in process.
HDOT(A) - Easement Agreement for Airport Division parcels	Pending	January 2016	Airport	Process Easement Agreement.
DHHL - Dept. of Hawaiian Home Lands Master Agreement	Executed		WOFH, MSF	Master Agreement in place.
DHHL – Dept. of Hawaiian Home Lands License	Executed		WOFH, MSF	Consent to construct in place.
OCCC - Dept. of Public Safety, Oahu Correctional facility Agreement Dillingham Blvd.	Pending	March 2016	City Center	Finalizing requirements.
HCDA -HI Community Development Agreement	Pending	March 2016	City Center	Coordination is ongoing.
DAGS – Dept. of Accounting & General Services / HHFDC Right of Entry	Pending	March 2016	City Center	Consent to construct in process.
DAGS – Dept. of Accounting & General Services / HHFDC Easement	Pending	March 2016	City Center	Process Easement Agreement.
Federal Agreements				
U.S. Navy Licenses	Executed		WOFH, KHG, Airport	Consent to construct in place. Formal notification is forthcoming, however, immediate access is granted.
U.S. Navy Licenses	Pending	January 2016	WOFH, KHG, Airport	Land court documents processed and awaiting recordation and filing.
U.S. Navy Pearl Harbor Station Acquisition of Fee Transfer	Adopted	January 2016	Airport	Congressional approval received and immediate access is granted. Conveyance documents are in process.
U.S. Post Office Honolulu Processing Center acquisition	Pending	February 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.
Other Agreements				
D.R. Horton Agreement for Construction	Executed		WOFH	Consent to construct in place.
D.R. Horton Final Easement Agreement	Pending	March 2016	WOFH	Document 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 in Section 6.1)
 - **Design Criteria Conformance Checklists (DCCC) development and verification:** (See status chart in Section 6.1)
 - FHSG - LCC and West Lock Stations DCCC verifications are ready for 12/09/2015 SSRC review/approval
 - WOSG - UH West Oahu, Ho'opili, and East Kapolei Stations DCCC verifications are ready for 12/09/2015 SSRC review/approval
 - **Civil – Construction Spec Conform Checklist (CSCC) development/verification:** (See status chart in Section 6.1)
 - **Core Systems – Spec/Testing Conform Checklist (STCC) development/verification:** (See status chart in Section 6.1)
 - Two (2) Passenger Vehicle (PV) STCCs are ready for the 12/09/2015 SSRC review/approval
 - » 1) General requirements – Applies to all Vehicles
 - » 2) Interim Certification to enter Dynamic Testing
 - **Base Operational Readiness Conformance Checklists (ORCC):**
 - The base ORCC is ready for the 12/09/2015 SSRC review/approval.
 - **PHAs and Core Systems SSHAs/O&SHAs:** (See certification document status chart in Section 6.1)
 - **TVA:** No change, on hold - pending Airport Guideway/Stations and City Center Guideway/Stations re-design.
 - **Open Items List (OIL):** (See status chart in Section 6.1)
 - **Hazard Tracking Log:** No changes
 - **Interim Certification Requirements:**
 - Preliminary/Base Interim Certification Conformance Checklists are under review for:
 - The delivery of 3-MOW Vehicles – Vehicle Mover, Multi-Purpose Vehicle, and Enclosed Trailer
 - The delivery of Passenger Vehicle-001
 - Rail Yard Test Track
 - **Key S&S Certification related meetings held in November 2015:**
 - PMOC monthly review meeting: 11/2-3/2015
 - Safety and Security Certification Working Group: 11/03/2015
 - Fire Life Safety Working Group (FLSWG) meeting: 11/11/2015
 - Operational Readiness Working Group (ORWG) meeting: 11/13/2015
 - Passenger Vehicle Certification meeting: 11/12/2015
 - Interim Certification Working Group meeting: 11/13/2015
 - Open Items List and Hazard Tracking Log meeting, Senior PM Leadership: 11/30/2015
 - Bi-weekly and/or monthly project coordination meetings with Core Systems, MSF, WOFH and KHG
 - HART Safety and Security weekly meeting with HDOT
- **S&S Certification Certificates:** Please see status chart in Section 6.1: The 12 month milestone projection is updated.
- **Construction Safety and Security:** Please see status chart in Section 6.1.

KEY ISSUES

- The rail plinths remain an outstanding issue. A proposed plan by the contractor was reviewed by HART Engineering. The contractor will proceed at risk for the work. 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.
- HART Safety is developing a certification document collection point through CMS to SharePoint for easy access to publish certification certificates with a link to all supporting documentation. This change will facilitate any audit requirements as the Project progresses through each lifecycle.
- Safety and Security is presently lacking one (1) position (Safety Specialist). Staff has divided the work in the interim.

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 contract and one (1) major NCR on the KHG contract 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.
- Closeout Combined QA and Buy America Audit of Schindler Elevators and Escalators on the DFIM contract on Nov. 4, 2015.
- Issued QA audit report to KIWC on Public Information for the WOFH and KHG contracts on Nov. 2, 2015.
- Issued QA audit report to PGH Wong (CE&I West) on WOFH, KHG, MSF and EE contracts on Nov. 10, 2015.
- Performed QA audit of AHJV on the Core System Configuration Management Plan on Nov. 5, 2015.

KEY ISSUES

- Erection and finishing of spans (12-segments) and installation of permanent “shear keys” between the WOFH guideway columns and both ends of the spans.
- Construction of KHG drilled shafts, columns and segments (Casting Facility).
- Resolution of two (2) major WOFH NCRs: cracked segments 1, 2, 11 and 12 of Span 17 repair, and Direct Fixation Shims Tolerances.
- Resolution of one (1) major KHG NCR: 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 Hitachi Rail Italy and its subcontractor manufacturing facilities in Italy.
- Final Assembly of passenger vehicles at Hitachi Rail Italy 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 initiated a review of an issue regarding variable refrigerant flow (VRF) system and its conformance with Buy America.

Disadvantaged Business Enterprise (Section 6.4)

OVERVIEW

- \$29,517,224 = total dollar participation for all DBEs on all HART contracts from 9/24/07 to 11/30/15.

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. Monitoring and compliance efforts regarding the Programmatic Agreement are ongoing.

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 145 risks in the November 2015 risk register, compared to 215 a year ago. There were 3 risks deleted and 6 new risks added for the month. Reviews for the month were conducted for Core Systems, Elevators/Escalators, Right-Of-Way, Utilities, Traffic, Environmental & Third Party Stakeholders, Safety & Security, and Change Administration.

KEY ISSUES

- Procurements are active with HART having addressed value engineering opportunities, repackaging the delivery program, revised general terms and conditions, and improved the special provisions based on lessons learned to date.
- Market conditions are significant with construction escalation maintaining a rate of change of 1% per month. 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.
 - Without City Council approval in December, HART may need to delay City Center Guideway and Stations Part 2 procurement.
 - The contractors bidding the project need to know the funding is secure in order to provide their best pricing.
- Right-of-way resources for securing utility easements is a new issue due to 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.
- Utility coordination for HECO power line clearance and other utility conflicts is continuing to be evaluated for cost and scope. Determination of betterments and allocation of those costs will be clarified by agreement.
- 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 achieved a key milestone this month, with the completion of 5 miles of guideway work in West O'ahu.
- HART's business outreach programs continue, with regular business briefings, traffic presentations, and its Shop & Dine on the Line program, which has 100 businesses signed up.
- HART's outreach team participated in more than a dozen presentations, meetings and events this month, including 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 more than 75 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 new Director of Planning, Permitting and Right-of-Way started on Nov. 30, 2015.
- The WOFH KHG project manager resigned as of Nov. 20, 2015. Recruiting is underway to identify a replacement.
- HART prioritizes filling all vacancies with City employees and supplements the City staff with PMC when required and appropriate.

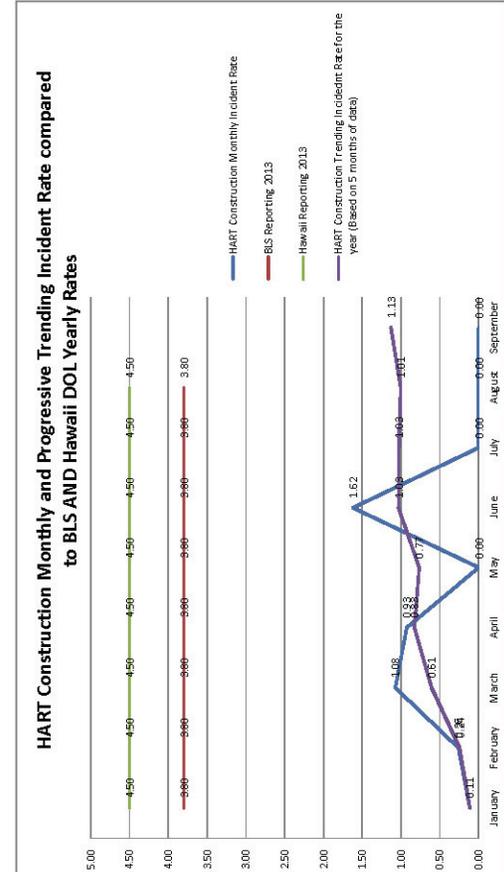
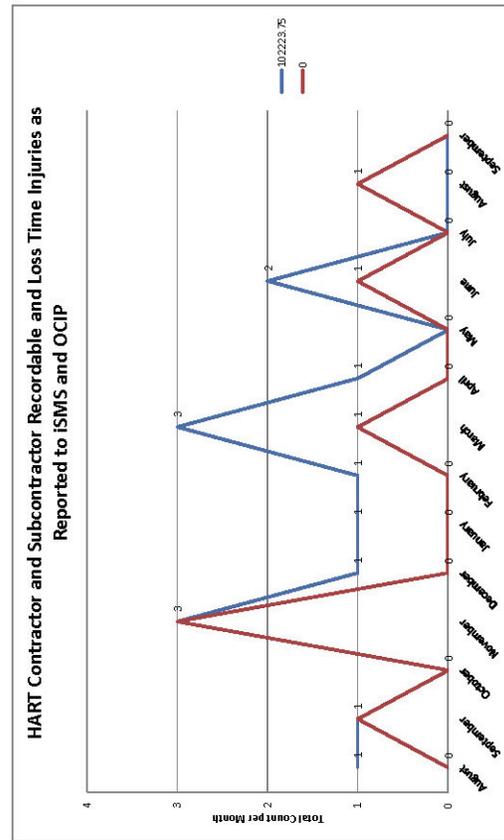
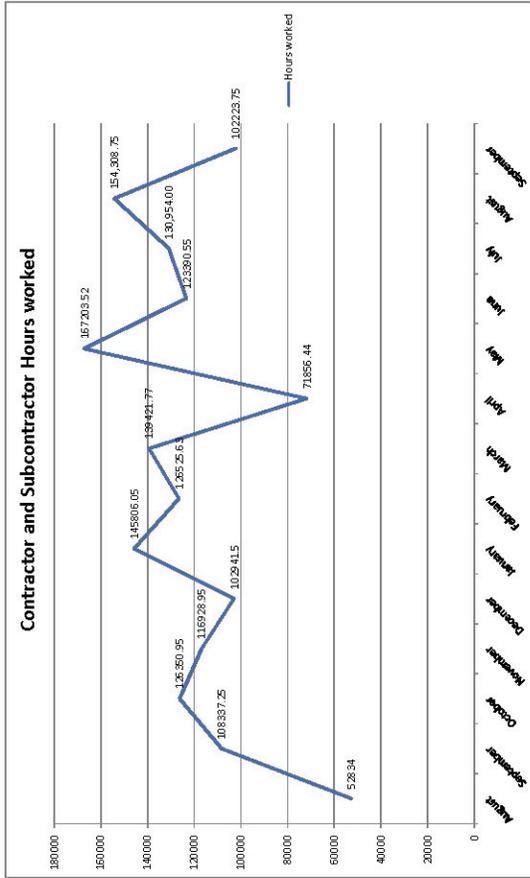
KEY ISSUES

- The organization chart is being updated to reflect personnel changes. There are no major structural changes to the current chart.

6.1 Safety and Security

	2014		2015	
	Hours worked	No of Recordable	Hours worked	No of Recordable
January	52834	0	145606.05	1
February	108337.25	0	126525.63	1
March	108337.25	0	138421.77	3
April	108337.25	0	71856.44	1
May	108337.25	0	167203.52	0
June	108337.25	0	123,390.55	2
July	108337.25	0	130854.00	0
August	52834	0	154380.7	0
September	108337.25	1	102223.75	0
October	126525.63	0	0	0
November	116929.95	3	0	0
December	102941.5	1	0	0
Total	507892.65	8	1161762.41	8

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



Project-Wide Incident Activity					
Event Type	Total Number of Events since 1/1/2007	Total Number of Events for November 2015	Loss Type	Date	Event Description
Environment	15	0			
Loss or Damage	30	5	Minor Damage Minor Damage Minor Damage Minor Damage Minor Damage	a) 10/29/15 b) 11/2/15 c) 11/11/15 d) 11/13/15 e) 11/19/15	a) Crane damaged a power distribution box on the WOFH guideway. b) A work truck and an aerial lift collided causing minor damage at MSF. c) 5/8" Steel choker failed during a crane lift. d) A Kiewit truck suffered minor damage when a 6" pipe was knocked from its pipe rack traversing a curb. e) While moving a crane, the back bumper struck the concrete K-Rail.
*Reportable Occupational Injury/Illness	0	0			
Security	56	0			
**Loss Time Occupational Injury/Illness	6	0			
Road/Vehicle - Driving	83	2	Minor Damage Minor Damage	a) 11/10/15 b) 11/19/15	a) An articulated bus hit the corner of the k-rail barrier on Farrington Hwy. b) A 3rd party vehicle drove through a flagger station and struck and excavator which was removing plates.
Service Strike	65	0			
*Reportable incidents: Requires OSHA to be notified within 8 hours, and includes the death of an employee or hospitalization of three or more employees. **Loss Time Injury: Time away from work due to injury.					

HART S&S Certification "Open Items List"						
Last 5 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	85	108	56%	41	18%
November	207	55	152	73%	44	21%

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	
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 is in affect
Construction Safety & Security Plan (CSSP)	Rev 2	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	-	11/06/2015 HART Safety internal review/update
- Alignment	Rev 2.A	-	11/06/2015 HART Safety internal review/update
- Tracks	Rev 2.A	-	11/06/2015 HART Safety internal review/update
- Stations	Rev 2.A	-	11/06/2015 HART Safety internal review/update
- 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		10/29/2015 – CSC R&R
- 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	-	HART Accepted (ACC) - 11/02/2015 – ready for Jan SSRC approval
- Vehicle/ATC O&SHA	Rev E	-	11/02/2015 – CSC R&R
- TES SSHA	Rev B	-	11/03/2015 – CSC R&R
- TES O&SHA	Rev B	-	11/03/2015 – CSC R&R
- 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	-	HART Accepted (ACC) - 11/04/2015 – ready for Jan SSRC approval
- Communications SSHA	Rev A	-	8/14/2015 – CSC R&R
- Communications O&SHA	Rev B	-	11/24/2015 – CSC R&R
- FDAS SSHA	Rev B	-	11/03/2015 – CSC R&R
- FDAS O&SHA	Rev B	-	HART Accepted (ACC) - 11/24/2015 – ready for Jan SSRC approval
- 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)						
<i>Civil and Core Systems Contracts</i>						
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%	N/A	5/27/2015			
DB-200, MSF	96%	-	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%	-	1- station- 6/17/2015			
FD-140, West Oahu Station Group	99%	+2%	2 stations ready for SSRC			
MI-930, Elevators & Escalators	-	-	Base DCCC 8/26/15			
FD-340, Kamehameha Highway Station Grp	100%	+1%	3 Stations – 8/26/2015			
Civil Contracts Under Design or in Pre-bidding Status						
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			
- Yard Control Bungalow (YCB) Civil CSC	48%	+48%	DCCC under review			
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)			
<i>Civil - Contracts</i>			
<i>Verification Status</i>			
Construction - Installation – Start-up & Testing Phases			
Contracts	% Verified	+ / - % Change	Comments
Civil Contracts Under Construction			
DBB-525, Airport Section, 7 - Drilled Shafts	100%	N/A	8/26/2015 SSRC approved –Certification Completed
DB-200, MSF	35%	-	Verification underway
DB-120, WOFH Guideway	44%	+9%	Verification underway
DB-320, KHG Guideway	4%	-	Verification underway
DBB-505, Airport Utilities - Construction	28%	-	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
APO0 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>			
<i>Verification Status</i>			
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	-	-	Base STCC pending 12/09/2015 SSRC approval
MOW Vehicles	-	-	Draft base STCC under review
Operational Requirements			
- Operational Readiness Conformance Checklists	5%	+5%	Tentative - pending SSRC approval – under internal 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

<i>S & S Certification Certificates Issued to Date and 12 Month Milestones</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 Certifications next 12 Months		
	Milestone Dates	Comments
1. YCB Civil Contract - Core Systems	February 2016	Civil only
2. MOW Vehicles - Interim Certification	February 2016	3 - MOW vehicles & tracks
3. DBB-505 Airport Utilities Contract and Certifiable Element	March 2016	Civil Only
4. PV-001 Delivery - Interim Certification	March 2016	MSF/Tracks/PV-001/IT/Ops
5. DB-200, MSF Contract & Certifiable Element	May 2016	Civil Only
6. PV-001 Interim Certification to enter Dynamic Testing	September 2016	PV-001 only
7. Rail Yard Test Track # 1 – Interim Certification	September 2016	Civil-Track, TES, PV-001,IT, Ops
8. Functional Track – WOFH Guideway – Interim Certification – Test Track # 2	October 2016	Civil and Core Systems
9. PV-002 Interim Certification to enter Dynamic Testing	November 2016	PV-002 only
10. DBB-385 H2R2 Contract and Certifiable Element	December 2016	Civil only
11. DB-120, WOFH Guideway Contract and Certifiable Element	December 2016	Civil Only

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, QAP of Royal Contracting on H2R2 Ramp, 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 (Ceramic Tiles Installation); and CSC (MSF/YCB [Electrical System, Fire Suppression, and Roofing] and PSGS Dynamic Load Testing and Salt Fog Testing.
- 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 12

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 O'ahu/Farrington Highway Guideway Design-Build (WOFH)	KIWC - 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	KIWC - HI	15-008	10/21 - 10/22	10/22 - 10/23	
CT-HRT-11HO195	KHG Public Information					
CT-HRT-10HO137	WOFH & KHG Casting Facility	KIWC - 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	KIWC/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 12

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	11/5	
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	TBD	2016		
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 12

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	11/4/15
		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 12

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
37 (Audits)	33	4
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 WOFH NCRs 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 :
 - **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 on the critical path.
 - **Direct Fixation Shims Tolerances – NCR 00398:** KIWC shims shall exceed the 9/16 inches specified requirements. HART and KIWC continue discussions on the direct fixation shim tolerances. KIWC has decided to halt installation of shims until the issue is resolved. Timely closeout of contractors, consultants and suppliers open NCRs.
- Resolution of one (1) major KHG NCR that needs to be addressed and corrected to prevent recurrence and to mitigate impact to the overall progress of the project. The major NCR identified:
 - **Drilled Shafts:** To date there are 17 Open NCRs (closed one), which are related to the CSL Reports, and 89 Drilled Shafts completed (added 6).
- Combined Internal QA and Safety/Security Internal Audit on Dec. 1-8, 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 WOFH NCRs: cracked segments 1, 2, 11 and 12 of Span 17 repair, and Direct Fixation Shims Tolerances.
- Resolution of one (1) major KHG NCR: Drilled Shafts (Crosshole Sonic Logging Reports) quality and repair.
- 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 Hitachi Rail Italy and its subcontractor manufacturing facilities in Italy.
- Final Assembly of Passenger Vehicles in Hitachi Rail Italy 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**
 - HART will provide updates on any new construction agreements HART enters into with a utility company.
 - HART will provide updates on analysis regarding the variable refrigerant flow (VRF) issue.

6.4 Disadvantaged Business Enterprise (DBE)

- **Activities this month**
 - \$29,517,224 = total dollar participation for all DBEs on all HART contracts from 9/24/07 to 11/30/15
 - 6.20% = DBE utilization on total disbursed FTA funds received to date (\$29,517,224 divided by \$476,509,166)
 - 1.67% = DBE utilization to date on total Project FTA funds (\$29,517,224 divided by \$1,763,903,901)

Total DBE Participation = \$29.5M
(previous report = \$28.6M)

Figure 16. DBE Participation this Month

DBE Participation in November		
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
AMR Estimating Services	SC-HRT-1400027 MM-913	\$46,230
The Solis Group	SC-HRT-1400027 MM-913	\$63,415
Amazon Construction Co.	CT-HRT-1500056 MM-945	\$446,558
Aloha Steel	CT-HRT-1500056 MM-945	\$176
Carol Kwan Consulting	CT-HRT-1500056 MM-945	\$13,291
David's Fencing	CT-HRT-1000449 DB-200	\$4,948
Island Hauling	CT-HRT-1000449 DB-200	\$46,861
LKG-CMC	SC-HRT-1400049 MM-962	\$29,520
FIC, LLC	SC-HRT-1400051 MM-595	\$132,571
LKG-CMC	SC-HRT-1400051 MM-595	\$31,678
TOTAL FOR THE MONTH		\$961,368

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, Nov. 3, 2015, as part of ongoing consultation with the division.
 - HART's two Makalapa National Register of Historic Places (NRHP) nominations were withdrawn from the Nov. 13, 2015 hearing of the Hawai'i Historic Places Review Board.

- Graffiti removal tests were completed at the Armstrong Building (175 N. King Street) in preparation for additional tests and removal work at 1, 15/19, and 25 North Hotel Street, as well as 1024-1034 and 1111 Nuuanu Avenue.
- Planning, Environmental, and Cultural Activities:
 - HART continues to assist the Oahu Metropolitan Planning Organization (OMPO) in updating the regional long-range travel demand forecasting model.
 - HART, City and County Department of Transportation Services (DTS), and DTS' contractor Oahu Transit Services (OTS) are collaborating on bus-to-rail interface planning using a new software package called Remix. This software enables planners to quickly cost out multiple routing scenarios with awareness of socioeconomic implications on Honolulu's transit ridership.
- Sustainability:
 - HART intends to include bike shelters (covered, protected bike storage areas) into the Lagoon Drive and Pearl Harbor Stations as well as select City Center stations.
 - HART continues to investigate opportunities to utilize photovoltaic energy in the City Center section.
- **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, Dec. 2, 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. Clarify betterment criteria.***
- 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 November 2015								
Current Risk ID	Contract Package	Risk Description	Probability	Prob Rating	Cost Impact	Time Impact	Nov '15 Risk Rating	Oct '15 Risk Rating
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
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
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
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
36.06	City Center Guideway	HECO Clearance - 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
184.17	Elevator/Escalator	There is a potential for cost escalation and extended OH for delay of manufacturing and installing elevator/escalator due to reprourement of West Side Stations.	90%	4	4	5	18	12
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
37.04	Kamehameha Highway Guideway	Additional utility easements may be required for private utility companies.	50%	3	5	5	15	15
37.19	Airport Guideway and Stations	Additional utility easements may be required for private utility companies.	50%	3	5	5	15	15
37.06	City Center Guideway	Additional utility easements may be required for private utility companies.	50%	3	5	5	15	15
186.17	Elevator/Escalator	Increase/decrease in escalator requirements.	90%	5	3	3	15	12
193.08	Core Systems Contract	Delays in Civil, Guideway and Stations may cause Core Systems installation delay.	60%	4	5	2	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 November 2015							
Risk ID	Contract Package	Risk Description	Probability	Prob Rating	Cost Impact	Time Impact	Risk Rating
37.04	Kamehameha Highway Guideway	Additional utility easements may be required for private utility companies.	50%	3	5	5	15
37.19	Airport Guideway and Stations	Additional utility easements may be required for private utility companies.	50%	3	5	5	15
192.06	City Center Guideway	Casting Yard may require an EA document.	25%	2	3	3	6
192.19	Airport Guideway and Stations	Casting Yard may require an EA document.	25%	2	3	3	6
193.08	Core Systems Contract	Delays in Civil, Guideway and Stations may cause Core Systems installation delay.	60%	4	5	2	14
194.08	Core Systems Contract	Testing of integrated systems phase results in re-design, rework and/or retesting delaying systems completion.	25%	3	3	2	7.5

Figure 20. Risks Deleted

Risks Deleted in November 2015					
Current Risk ID	Contract Package	Risk Description	Comments	Risk Rating	
				Nov. '15	Oct. '15
75.03	West Oahu/Farrington Highway Guideway	ROW - Late turnover of ROW to contractor may result in potential schedule delays.	Site access issues for construction have been cleared.	0	9
83.06	City Center Guideway	Utility Service Connections - Adjacent Property Owner Service Connections - Delay of utility easement identification for City Center Guideways may result in a delay of ROW acquisition and ultimately the start of construction.	Design solution and code compliance has been resolved.	0	14
188.18	H2R2 Ramp	Environmental - Hazardous Material clean up of +/-20 Cubic Yards is necessary to clear right of way.	Site is cleaned up.	0	4

6.7 Community Outreach

• **Activities this month**

- HART’s public outreach included presentations to business organizations, schools, and community groups.

• **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 updates to the West Oahu Economic Development Association (WOEDA), the Retail Merchants Association and various neighborhood boards.
- With the holidays approaching, HART also provided businesses along the route with updated holiday work schedules designed to mitigate traffic during the shopping season. Canvassing along the alignment continued and HART partnered with contractor Kiewit to connect with businesses in advance of the upcoming holiday season, adjusting construction work where possible to accommodate deliveries and other holiday activities. HART’s Business Alliance partnership continues to provide businesses in the construction corridor with tailored construction briefings, free business development workshops, and programs to assist local businesses during construction.

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

- *1,901 presentations and events*
- *1,031 Neighborhood Board meetings*

Figure 21. HART continues to connect with business groups and community organizations along the rail corridor.



Photo Courtesy: WOEDA

HART Executive Director and CEO Dan Grabauskas provides a construction update for more than 100 members of the West Oahu Economic Development Association (WOEDA).

• **Community Input**

- HART’s public information team responded to more than 75 inquiries and requests in November that came in via the agency’s website, email and 24-hour hotline. Inquiries this month primarily focused on traffic, construction activities, and HART’s Shop & Dine on the Line program.

• **Look Ahead**

Coming in December:

- HART’s public outreach team continues to participate in community events to provide project information and answer questions and concerns regarding construction.
- 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

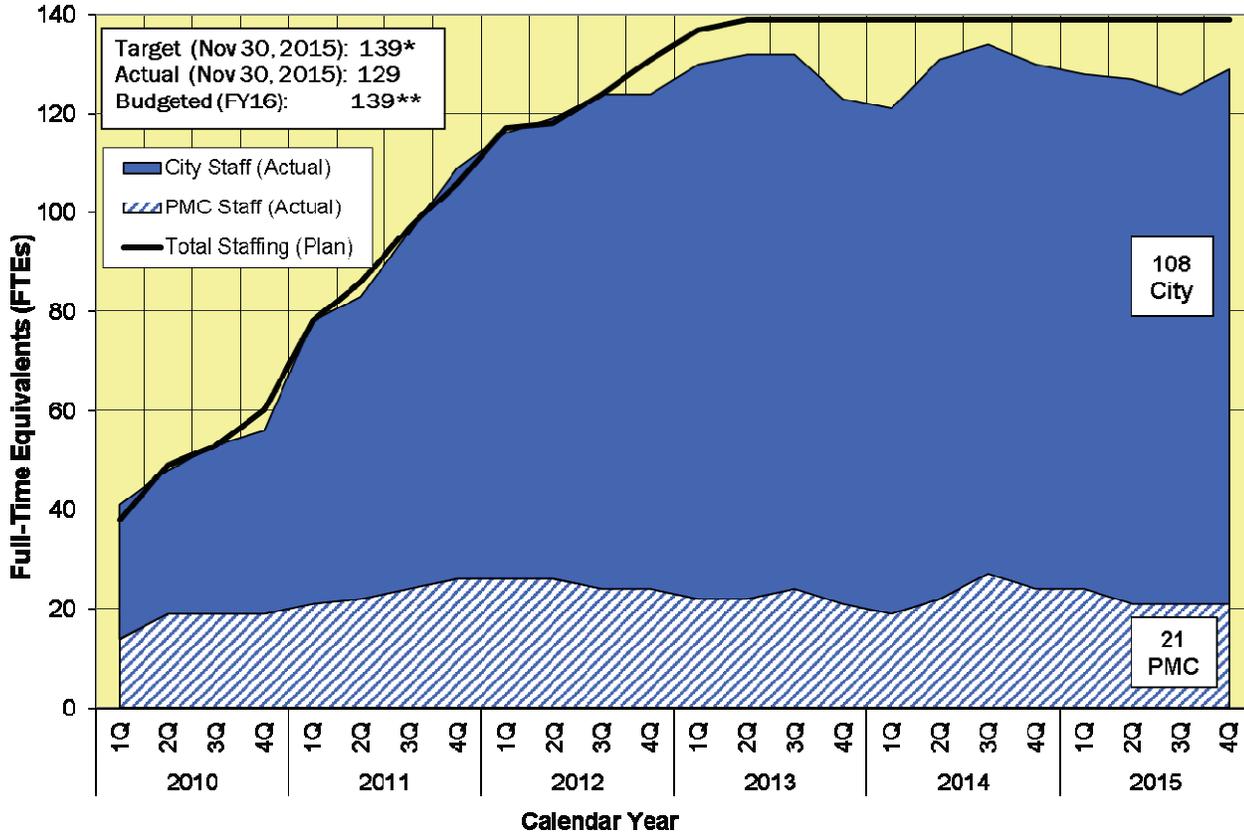
Figure 22. Staffing Activities

Staffing Activities				
Title	Group	New/Existing HART position (City or PMC)	Position Status	Start Month
Design and Construction				
West Area Construction Manager	Construction	New (City)	Recruiting	
Project Manager (KMSG/H2R2 Ramp)	Construction	New (City)	Selected/Processing	Dec
Project Manager (City Center DB)	Construction	New (PMC)	Filled	Nov
Project Manager (WOSG)	Construction	New (City)	Selected/Processing	Dec
Assistant Project Manager (City Center DB)	Construction	New (City)	Recruiting	
Project Manager (WOFH & KHG)	Construction	Existing (City)	Recruiting	
Electrical Engineer	Core Systems	Existing (City)	Filled	Nov
Electrical Engineer	Core Systems	Existing (City)	Recruiting	
Planning, Permits & Right-of-Way				
Director of Planning, Permits & ROW	Planning, Permits & ROW	Existing (City)	Filled	Nov
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)	Selected/Processing	Dec
Information Specialist II	Public Information	Existing (City)	Filled	Nov
Project Controls				
Scheduler	Project Controls	Existing (City)	Recruiting	
Civil Rights				
Senior Clerk	Certified Payroll	New (City)	Recruiting/Interviewing	

*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 23. Project Staffing (Actual vs. Planned)



* In accordance with Staffing and Succession Plan Rev 5 (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 – HART has provided MPS update for review
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	Oct-15	Complete
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		
	HART to provide two letters regarding Hitachi's acquisition of Ansaldo Breda and Ansaldo STS	HART	Nov-15	Nov-15	Nov-15	Complete
	HART to provide a matrix of ROW parcels	HART	Nov-15	Nov-15		
	HART to provide Buy America email to FTA on HVAC controls	HART	Nov-15	Nov-15	Nov-15	Complete
	HART to provide white paper on HDOT betterments	HART	Nov-15	Nov-15		

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 = \$489.0M

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 10/30/15

#	Project No.	Project Desc.	Budget Transfer/Change Description	Contingency Drawdown (F/A)	Contingency Code
July '12 (Bottoms-Up Estimate)					
1)	FD-240	Farrington Highway Stations Group FD	Budget Transfer at Bottoms-Up Estimate from Project Scope to Contingency (contract allowance)	\$58,443	90.03 - Contract Allowance
2)	FD-430	Airport Section Guideway Utilities FD	Budget Transfer for Contract Award Issues from the ASGU FD	\$2,054,108	90.02 - Allocated Contingency
3)	UM-375	LEED Commissioning Services	Budget Transfer for Contract Award above the LEED Comm. Services contract budget	(\$55,633)	90.02 - Allocated Contingency
4)	UM-320	Kamehameha Highway Guideway DB	Budget Transfer for Contract Award above the KHG DB contract budget	(\$220,683)	90.02 - Allocated Contingency
5)	DB-120	West Oahu Farrington Highway Guideway DB	Budget Transfer for Ins. Covg per executed CO No. 004	\$3,955,230	90.02 - Allocated Contingency
			July '12 Contingency Drawdown	\$5,851,273	
			July '12 - Ending Contingency Balance	\$649.4	
August '12					
1)	FD-140	West Oahu Stations Group FD	Budget Transfer for Contract Awarded under WOSG FD contract budget	\$1,808,200	90.02 - Allocated Contingency
2)	FD-530	City Center Guideway Utilities FD	Budget Transfer for Contract Awarded under COGU FD contract budget	\$5,917,545	90.02 - Allocated Contingency
3)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 17 - Procure and install Portable Buildings	(\$2,670,000)	90.02 - Allocated Contingency
			August '12 Contingency Drawdown	\$5,086,145	
			August '12 - Ending Contingency Balance	\$654.5	
			September '12	\$654.5	
			No Contingency Drawdown	\$0	
			September '12 Contingency Drawdown	\$0	
			September '12 - Ending Contingency Balance	\$654.5	
1)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 21 - Builders Risk Insurance Coverage	(\$56,688)	90.02 - Allocated Contingency
			October '12 Contingency Drawdown	(\$56,688)	
			October '12 - Ending Contingency Balance	\$654.4	
November '12					
1)	FD-440	Airport Stations Group FD	Budget Transfer for Contract Award under ASGU FD the contract budget	\$227,184	90.03 - Contract Allowance
2)	FD-340	Kamehameha Highway Stations Group FD	Budget Transfer for Contract Award under KHSG FD the contract budget	\$202,469	90.03 - Contract Allowance
3)	MM-305	General Engineering Consultant	Budget Transfer to align contract budget with Committed value	(\$120,630)	90.02 - Allocated Contingency
			November '12 Contingency Drawdown	\$309,623	
			November '12 - Ending Contingency Balance	\$664.7	
1)	FD-430	Airport Section Guideway Utilities FD	Executed Contract Amendment No. 01 - Design & Engineering Cost Estimates	(\$225,000)	90.02 - Allocated Contingency
			December '12 Contingency Drawdown	(\$225,000)	
			December '12 - Ending Contingency Balance	\$664.4	
1)	DB-320	Kamehameha Highway Guideway DB	Executed Change Order No. 01 - Acacia Rd alternative analysis	\$654.4	
			January '13 Contingency Drawdown	(\$15,881)	
			January '13 - Ending Contingency Balance	\$654.4	
1)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 26 - Ins. Covg Requirement/ Additional BSGV at Ft. Weaver Rd	(\$1,670,178)	90.02 - Allocated Contingency
			February '13 Contingency Drawdown	(\$1,670,178)	
			February '13 - Ending Contingency Balance	\$652.8	
1)	FD-240	Farrington Highway Stations Group FD	Executed Contract Amendment No. 09 - Waipahu Station sewer	(\$3,185)	90.03 - Contract Allowance
2)	DB-200	Maintenance & Storage Facility DB	Executed Change Order No. 06 - Ins. Covg Requirements/ DOT Crossovers Insulated Joints	(\$494,078)	90.02 - Allocated Contingency
			March '13 Contingency Drawdown	(\$498,761)	
			March '13 - Ending Balance	\$652.3	
April '13					
1)	FD-140	West Oahu Stations Group FD	Executed Contract Amendment No. 01 - Second elevator provision	(\$51,013)	90.03 - Contract Allowance
2)	DB-120	West Oahu Farrington Highway Guideway DB	Budget Transfer to offset Ins. Covg Requirement for Change Order No. 26	\$1,670,178	90.02 - Allocated Contingency
3)	DB-200	Maintenance & Storage Facility DB	Budget Transfer to offset Ins. Covg Requirement for Change Order No. 06	\$434,000	90.02 - Allocated Contingency
4)	DB-320	Kamehameha Highway Guideway DB	Budget Transfer to align current budget to contract Schedule of Milestones	\$600	90.02 - Allocated Contingency
			April '13 Contingency Drawdown	\$2,023,765	
			April '13 - Ending Contingency Balance	\$654.3	
			No Contingency Drawdown	\$0	
			May '13 Contingency Drawdown	\$0	
			May '13 - Ending Contingency Balance	\$654.3	
1)	N/A	N/A	No Contingency Drawdown	\$0	
			June '13 Contingency Drawdown	\$0	
			June '13 - Ending Contingency Balance	\$654.3	

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#	Project No.	Project Desc.	Budget Transfer/Change Description	Beg. Balance:	Contingency Drawdown (F/A)	Contingency Code
July '13						
1)	FD-430	Airport Section Guideway Utilities FD	Executed Contract Amendment No. 04 - Antenna Engineering Design Services	\$643.3	(6494, 114)	90.02 - Allocated Contingency
2)	DB-200	Maintenance & Storage Facility DB	Executed Change Order No. 07 - Archeological Inventory Survey (AIS) Provisional Sum Part 2		(83,000,000)	90.02 - Allocated Contingency
3)	DB-200	Maintenance & Storage Facility DB	Executed Change Order No. 08 - Maintenance & Storage Facility Yard Switch Machines		(8593,000)	90.02 - Allocated Contingency
4)	DB-200	Maintenance & Storage Facility DB	Executed Change Order No. 09 - Yard Layout Revisions		(8514,429)	90.02 - Allocated Contingency
5)	DB-200	Maintenance & Storage Facility DB	Executed Change Order No. 10 - Train Configuration		(8327,700)	90.02 - Allocated Contingency
6)	DB-200	Maintenance & Storage Facility DB	Executed Change Order No. 11 - Preliminary Design & Supplemental Project Mgt		(8694,668)	90.02 - Allocated Contingency
			July '13 Contingency Drawdown	(85,254,106)		
August '13						
			July '13 - Ending Contingency Balance	\$649.1		
1)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 30 - Archeological Inventory Survey (AIS) Provisional Part 2		(65,800,000)	90.02 - Allocated Contingency
2)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 32 - Kapi Channel Station No. Concept		(3,721,981)	90.02 - Allocated Contingency
3)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 34 - Traditional Cultural Property Construction Partial Suspension		(81,195,644)	90.02 - Allocated Contingency
4)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 36 - Hiopali Station Relocation Design		(6,490,615)	90.02 - Allocated Contingency
5)	DB-320	Kahehameha Highway Guideway DB	Executed Change Order No. 06 - Archeological Inventory Survey (AIS) Provisional Part 2		(81,500,000)	90.02 - Allocated Contingency
6)	FD-140	West Oahu Stations Group FD	Executed Contract Amendment No. 02 - Canopy Redesign		(6504,386)	90.03 - Contract Allowance
7)	MT-930	Elevator & Escalator Install/Maint	Budget Transfer for Contract Awarded under E&E IM contract budget		(83,738,472)	90.02 - Allocated Contingency
			August '13 Contingency Drawdown	(85,824,004)		
			August '13 - Ending Contingency Balance	\$643.2		
1)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 33 - Provisional Sum - HDOT Joint Use and Occupancy		(84,900,000)	90.02 - Allocated Contingency
2)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 35 - Aesthetic Column Design Conflict		(6120,612)	90.02 - Allocated Contingency
3)	DB-200	Maintenance & Storage Facility DB	Executed Change Order No. 12 - HNTB Design Escalator		(89,23,500)	90.02 - Allocated Contingency
4)	FD-240	Farrington Highway Stations Group FD	Executed Contract Amendment No. 10 - NTP 2 Delay/Design Delay from Core Systems Contract & West Oahu Farrington Highway DB Contract		(8270,985)	90.02 - Allocated Contingency
			September '13 Contingency Drawdown	(86,115,297)		
			September '13 - Ending Contingency Balance	\$637.1		
1)	DB-200	Maintenance & Storage Facility DB	Executed Change Order No. '13 - Ins. Covg Requirements/ Roof Access Modification		(8,287,155)	90.02 - Allocated Contingency
2)	DB-200	Maintenance & Storage Facility DB	Budget Transfer for Change Order No. '13 for Ins. Covg Requirements		\$286,500	90.02 - Allocated Contingency
3)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 37 - Ala He Street Wdg 1/35 at DR-Porton & Farrington HWY		\$24,815	90.02 - Allocated Contingency
4)	DECM-620	Core Systems Design Build C/M	Core Systems Design Build C/M		(823,901,657)	90.02 - Allocated Contingency
5)	FD-930	Birmingham and Kakaako Stations Group FD	Budget Transfer for Contract awarded under DKSS FD contract budget		\$1,197,759	90.01 - Unallocated Contingency
			October '13 Contingency Drawdown	(822,134,737)		
			October '13 - Ending Contingency Balance	\$615.0		
1)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 38 - Insurance Coverage Requirement Q4 2013		(81,800,000)	90.02 - Allocated Contingency
2)	DB-120	West Oahu Farrington Highway Guideway DB	Budget Transfer for Change Order No. 035 for Ins. Covg. Requirements		(81,800,000)	90.02 - Allocated Contingency
3)	DB-200	Maintenance & Storage Facility DB	Executed Change Order No. 014 - Preliminary Design & Supplemental Project Management 2		(8214,646)	90.02 - Allocated Contingency
4)	DB-200	Maintenance & Storage Facility DB	Executed Change Order No. 015 - Yard Layout Revisions/RFP Structural Steel Modification		(81,723,000)	90.02 - Allocated Contingency
5)	DB-200	Maintenance & Storage Facility DB	Budget Transfer for Change Order No. 015 for Ins. Covg. Requirements		\$223,000	90.02 - Allocated Contingency
6)	FD-330	City Center Guideway Utilities FD	Executed Contract Amendment No. 01 - Archeological Inventory Survey (AIS) Suspension		(8532,800)	90.02 - Allocated Contingency
7)	FD-240	Farrington Highway Station Group FD	Budget Transfer for Contract Award for FH65 FD II		(82,700,259)	90.01 - Unallocated Contingency
			November '13 Contingency Drawdown	(84,947,851)		
			November '13 - Ending Contingency Balance	\$610.0		
1)	FD-430	Airport Section Guideway Utilities FD	Executed Contract Amendment No. 05 - Utera St resection scope impact		(8248,669)	90.02 - Allocated Contingency
2)	FD-140	West Oahu Station Group FD	Executed Contract Amendment No. 03 - Design relocation of HECO 46KV and fiber optic lines		(826,689)	90.02 - Allocated Contingency
			December '13 Contingency Drawdown	(8272,668)		
			December '13 - Ending Contingency Balance	\$609.8		
1)	FD-430	Airport Section Guideway Utilities FD	Executed Contract Amendment No. 06 - Archeological Inventory Survey (AIS) Suspension		(82,376,459)	90.02 - Allocated Contingency
2)	FD-530	City Center Guideway Utilities FD	Executed Contract Amendment No. 02 - Soil Resistance Test and Max Sag Calculation		(8406,153)	90.02 - Allocated Contingency
3)	MM-200	Construction Engineering & Inspection West	Budget Transfer for Contract Award less than CE&I West contract budget		\$181,059	90.02 - Allocated Contingency
4)	MM-595	Construction Engineering & Inspection East	Budget Transfer for Contract Award less than CE&I East contract budget		\$1,102,817	90.02 - Allocated Contingency
			January '14 Contingency Drawdown	(81,428,718)		
			January '14 - Ending Contingency Balance	\$608.3		
1)	FD-430	Airport Section Guideway Utilities FD	Executed Contract Amendment No. 07 - Resist & Sag Geotech Investigation		(8132,500)	90.02 - Allocated Contingency
2)	HRT-201	HART ODC	Budget Transfer for Contract Award - Archeological & Cultural Monitoring contract		(811,487)	90.02 - Allocated Contingency
3)	MM-910	GEC II	Budget Transfer for Contract Award - Archeological & Cultural Monitoring & Core Systems Support contracts		(84,424,173)	90.02 - Allocated Contingency
4)	MM-960	Archeological & Cultural Monitoring	Budget Transfer for Contract Award - Archeological & Cultural Monitoring contract		\$36,761	90.02 - Allocated Contingency
5)	MM-962	Core Systems Support	Budget Transfer for Contract Award - Core Systems Support contract		\$4,398,669	90.02 - Allocated Contingency
			February '14 Contingency Drawdown	(8132,900)		
			February '14 - Ending Contingency Balance	\$608.2		

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#	Project No.	Project Desc.	Budget Transfer/Change Description	Beg. Balance:	Contingency Drawdown (F/A)	Contingency Code
	N/A	N/A	March '14 Contingency Drawdown	\$608.2	\$0	
			March '14 Contingency Drawdown	\$608.2	\$0	
			April '14	\$608.2		
1)	FD-140	West Oahu Stations Group FD	Executed Contract Amendment No. 04 - East Kapolei Staff Room Pie-Final Submittal			90.03 - Contract Allowance
2)	FD-450	Airport Section Guideway Utility FD	Executed Contract Amendment No. 08 - Notice-to-Proceed 485/Provisional Sum for Design Support during bid			90.02 - Contract Allowance
3)	DB-200	Maintenance & Storage Facility DB	Executed Change Order No. 016 - Rail Lubricators			61.126 (0.00) 90.02 - Allocated Contingency
4)	DB-200	Maintenance & Storage Facility DB	Executed Change Order No. 017 - Yard Layout Reconfiguration/Automated Train Operation Design			63.700 (0.00) 90.02 - Allocated Contingency
5)	DB-200	Maintenance & Storage Facility DB	Executed Change Order No. 018 - Rail Material Storage Plan			90.02 - Allocated Contingency
6)	DB-200	Maintenance & Storage Facility DB	Executed Change Order No. 019 - Train Wash Facility Shortening			90.02 - Allocated Contingency
7)	DB-120	West Oahu Farmington Highway Guideway DB	Executed Change Order No. 040 - Precast Yard Alternative Site			90.02 - Allocated Contingency
8)	DB-120	West Oahu Farmington Highway Guideway DB	Executed Change Order No. 041 - Revised Track Alignment and Profile			90.02 - Allocated Contingency
9)	DB-120	West Oahu Farmington Highway Guideway DB	Executed Change Order No. 042 - Saitowitch Isles Communications Utility Relocation @ North South Rd			90.02 - Allocated Contingency
10)	DB-320	Kamehameha Highway Guideway DB	Executed Change Order No. 005 - Rebar Clear Spacing Design Criteria			90.02 - Allocated Contingency
			April '14 Contingency Drawdown			
			April '14 - Ending Contingency Balance	\$690.7		
			May '14	\$590.7		
1)	FD-140	West Oahu Stations Group FD	Budget Transfer for Executed Contract Amendment No. 05 - Final Design for relocated Hopoli Station			90.02 - Allocated Contingency
2)	DB-320	Kamehameha Highway Guideway DB	Executed Change Order No. 008 - APCC work restrictions/underrunned utilities removal			90.02 - Allocated Contingency
3)	DB-320	Kamehameha Highway Guideway DB	Executed Change Order No. 009 - ERECO work restrictions/underrunned utilities removal			90.02 - Allocated Contingency
4)	DBCM-920	Core Systems Contract Design Build O/M	Executed Change Order No. 007 - Rebarcase TRSS to System site #5			90.02 - Allocated Contingency
5)	MM-316	On Call Hazard Removal Consultant	Budget Transfer for Executed Contract Amendment No. 002 - Increase S&M contract value			90.02 - Allocated Contingency
6)	MM-316	MSF LEED Consultant	Budget Transfer for Executed Contract Amendment No. 001 - LEED measurement and verification plan			90.02 - Allocated Contingency
7)	DB-200	Maintenance & Storage Facility DB	Executed Change Order No. 009 - CSB consolidated changes construction			90.01 - Unallocated Contingency
8)	DB-200	Maintenance & Storage Facility DB	Executed Change Order No. 020 - CSB reconfiguration			90.02 - Allocated Contingency
			May '14 Contingency Drawdown			
			May '14 - Ending Contingency Balance	\$668.4		
			June '14	\$668.4		
1)	DB-200	Maintenance & Storage Facility DB	Board Approved RFCC 00010 - Amendment J Non-Rail Escalation			90.02 - Allocated Contingency
			June '14 Contingency Drawdown			
			June '14 - Ending Contingency Balance	\$563.4		
			July '14	\$563.4		
1)	DBCM-920	Core Systems Contract Design Build O/M	Executed Change Order No. 008 - Platform Screen Gates Mobilization			90.02 - Allocated Contingency
2)	ROW	Real Estate/Right-of-Way	Budget Transfer for Contract Award above the Real Estate Map & Survey budget			90.02 - Allocated Contingency
3)	DB-200	Maintenance & Storage Facility DB	Budget Transfer to Project Contingency from remaining "known" Changes balance			90.02 - Allocated Contingency
4)	DB-120	West Oahu Farmington Highway Guideway DB	Budget Transfer to Project Contingency from remaining "known" Changes balance			90.02 - Allocated Contingency
			July '14 Contingency Drawdown			
			July '14 - Ending Contingency Balance	\$563.4		
			August '14	\$563.4		
1)	DB-320	Kamehameha Highway Guideway DB	Executed Change Order No. 010 - Delay in Insurance of Notice-to-Proceed 2 & 3			90.02 - Allocated Contingency
2)	FD-140	West Oahu Stations Group FD	Executed Amendment No. 006 - Passenger screen gates			90.02 - Allocated Contingency
3)	DB-320	Kamehameha Highway Guideway DB	Budget Transfer for Contract Award above Airport Section Utility Construction original budget			90.02 - Allocated Contingency
4)	MM-316	On Call Hazard Removal Consultant	Budget Transfer due to scope transfer from ROW to Hazard consultant			90.02 - Allocated Contingency
5)	MM-316	On Call Contractor	Budget Transfer for Contract Award above On Call Contractor original budget			90.02 - Allocated Contingency
			August '14 Contingency Drawdown			
			August '14 - Ending Contingency Balance	\$563.4		
			September '14	\$563.4		
1)	MM-390	OCIP Consultant Contract	Budget Transfer to unallocated contingency as estimate at completion is less than current budget.			90.02 - Allocated Contingency
2)	DB-200	Maintenance & Storage Facility DB	Executed Change Order No. 027 - Traditional Cultural Properties (TCP) Suspensions			90.02 - Allocated Contingency
3)	DB-200	Maintenance & Storage Facility DB	Executed Change Order No. 026 - Insurance Coverage Requirements 2014			90.02 - Allocated Contingency
4)	DB-320	Kamehameha Highway Guideway DB	Executed Change Order No. 011 - Revised Vehicle Criteria/Construction Safety Security Plan			90.02 - Allocated Contingency
5)	DB-320	Kamehameha Highway Guideway DB	Executed Change Order No. 012 - Insurance Coverage Requirements 9/1/13 - 6/30/14			90.02 - Allocated Contingency
6)	DB-120	West Oahu Farmington Highway Guideway DB	Executed Change Order No. 046 - Standard Specification Revision 2.0			90.02 - Allocated Contingency
7)	DB-120	West Oahu Farmington Highway Guideway DB	Executed Change Order No. 045 - Insurance Coverage Requirements 2014			90.02 - Allocated Contingency
8)	FD-530	City Center Guideway, Utilities FD	Executed Contract Amendment 004 - Aesthetic Station Collum			90.02 - Allocated Contingency
9)	FD-530	City Center Guideway, Utilities FD	Executed Contract Amendment 005 - City Center Section Rescue Cart Scope Impact			90.02 - Allocated Contingency
10)	FD-340	Kamehameha Highway Stations Group FD	Executed Contract Amendment 001 - Special Provisions Update/Shear Wave Analysis			90.03 - Contract Allowance
11)	FD-340	Kamehameha Highway Stations Group FD	Executed Contract Amendment 003 - Historic Arch/Rebar/Highway Sign			90.03 - Contract Allowance
12)	FD-340	Kamehameha Highway Stations Group FD	Executed Contract Amendment 005 - Historic Arch/Rebar/Highway Sign			90.03 - Contract Allowance
13)	FD-430	Airport Section Guideway Utility FD	Executed Contract Amendment 005 - Aesthetic Station Collum and Pearl Harbor Station Reesign			90.02 - Allocated Contingency
14)	FD-420	Airport Section Guideway Utility FD	Executed Contract Amendment 011 - Airport Section Rescue Cart Scope Impact			90.02 - Allocated Contingency
15)	FD-140	West Oahu Stations Group FD	Executed Contract Amendment 007 - Traffic Signal Control UHWO/HP/RAI Access Road			90.03 - Contract Allowance
			September '14 Contingency Drawdown			
			September '14 - Ending Contingency Balance	\$560.1		
			October '14	\$560.1		
1)	DBCM-920	Core Systems Contract Design Build O/M	Executed Change Order No. 009 - WGFH Guideway Alignment for CSC			90.02 - Allocated Contingency
2)	DB-200	Maintenance & Storage Facility DB	Executed Change Order No. 028 - Escalation due to Schedule Impacts			90.01 - Unallocated Contingency

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#	Project No.	Project Desc.	Budget Transfer/Change Description	Contingency Drawdown H14	Contingency Code
3)	DB-320	Kamehameha Highway Guideway DB	Executed Change Order No. 013 - Station Lead & Configuration Works	(\$1,350,000)	90.02 - Allocated Contingency
4)	DB-120	West Oahu Farmington Highway Guideway DB	Executed Change Order No. 047 - Station Lead & Configuration Works	(\$4,400,000)	90.01 - Unallocated Contingency
5)	FD-440	Airport Stations Group FD	Executed Contract Amendment No. 002 - Extension of PM Services	(\$900,000)	90.02 - Allocated Contingency
6)	FD-440	Airport Stations Group FD	Executed Contract Amendment No. 003 - Add Pedestrian Bridges to HIA Stations	(\$434,840)	90.02 - Allocated Contingency
7)	FD-240	Farrington Highway Stations Group-2 FD	Executed Contract Amendment No. 001 - Extension of PM Services	(\$297,500)	90.03 - Contract Allowance
8)	FD-240	Farrington Highway Stations Group-2 FD	Executed Contract Amendment No. 002 - Incorporation of Comments	(\$767,755)	90.01 - Unallocated Contingency
9)	FD-240	Farrington Highway Stations Group-2 FD	Executed Contract Amendment No. 003 - Value Engineering	(\$472,705)	90.01 - Unallocated Contingency
10)	FD-240	Farrington Highway Stations Group-2 FD	Executed Contract Amendment No. 004 - EOR/AOR	(\$746,539)	90.01 - Unallocated Contingency
11)	FD-140	West Oahu Stations Group FD	Executed Contract Amendment No. 010 - Temporary Parking Lot Near UHWO/UHWO & Ho'opili Sewage Holding Tank	(\$102,288)	90.03 - Contract Allowance
12)	FD-140	West Oahu Stations Group FD	Executed Contract Amendment No. 011 - Extension of PM Services	(\$297,500)	90.02 - Allocated Contingency
October '14 Contingency Drawdown				(\$18,307,188)	
November '14				\$531.8	
Core Systems Contract Design Build O/M				\$531.8	
1)	DBOM-920	Core Systems Contract Design Build O/M	Executed Change Order No. 012 - Bolets Ticket Vending Machines	\$10,350,000	90.02 - Allocated Contingency
2)	FD-550	Dillingham Kaka'ako Stations Group FD	Executed Contract Amendment No. 002 - General Excise Tax credit	\$395,588	90.02 - Allocated Contingency
November '14 Contingency Drawdown				\$10,735,586	
December '14				\$542.5	
Core Systems Contract Design Build O/M				\$542.5	
1)	DBOM-920	Core Systems Contract Design Build O/M	Executed Change Order No. 010 - HRT Train Mockup Shipment/Delivery	(\$63,715)	90.02 - Allocated Contingency
3)	DBOM-920	Core Systems Contract Design Build O/M	Executed Change Order No. 013 - HECO Connection Changes	(\$150,000)	90.02 - Allocated Contingency
4)	DB-320	Kamehameha Highway Guideway DB	Executed Change Order No. 014 - Escalation due to Schedule Impacts	(\$3,500,000)	90.02 - Allocated Contingency
5)	DB-120	West Oahu Farmington Highway Guideway DB	Executed Change Order No. 048 - Escalation due to Schedule Impacts	(\$15,000,000)	90.01 - Unallocated Contingency
December '14 Contingency Drawdown				(\$18,713,715)	
January '15				\$523.8	
Core Systems Contract Design Build O/M				\$523.8	
1)	DBOM-920	Core Systems Contract Design Build O/M	Executed Change Order No. 011 - Eliminate Station Manager Booths	\$310,000	90.02 - Allocated Contingency
2)	DB-120	West Oahu Farmington Highway Guideway DB	Executed Change Order No. 050 - Escalation due to Schedule Impacts Subcontractor Ameron Aggregate	(\$494,413)	90.01 - Unallocated Contingency
3)	DB-120	West Oahu Farmington Highway Guideway DB	Executed Change Order No. 051 - Escalation due to Schedule Impacts Subcontractor Antl Grantl Paint	(\$21,476)	90.01 - Unallocated Contingency
4)	DB-120	West Oahu Farmington Highway Guideway DB	Executed Change Order No. 052 - Escalation due to Schedule Impacts Subcontractor HFD Spec Duty Officer	(\$196,123)	90.01 - Unallocated Contingency
5)	DB-120	West Oahu Farmington Highway Guideway DB	Executed Change Order No. 053 - Escalation due to Schedule Impacts Subcontractor MESA Blocks	(\$71,693)	90.01 - Unallocated Contingency
6)	DB-120	West Oahu Farmington Highway Guideway DB	Executed Change Order No. 054 - Escalation due to Schedule Impacts Subcontractor Road Builder	(\$176,655)	90.01 - Unallocated Contingency
7)	DB-120	West Oahu Farmington Highway Guideway DB	Executed Change Order No. 055 - Escalation due to Schedule Impacts Subcontractor Fast Tension Strand Accessories	(\$767,177)	90.01 - Unallocated Contingency
8)	DB-120	West Oahu Farmington Highway Guideway DB	Executed Change Order No. 056 - Escalation due to Schedule Impacts Subcontractor Ameron Rolled Drilled Shaft Castings	(\$102,675)	90.01 - Unallocated Contingency
9)	DB-120	West Oahu Farmington Highway Guideway DB	Executed Change Order No. 057 - Escalation due to Schedule Impacts Subcontractor PAC Electric	(\$77,883)	90.01 - Unallocated Contingency
10)	DBOM-920	Core Systems Contract Design Build O/M	Executed Contract Amendment No. 014 - Eliminate Secondary Emergency Access at MSF	\$50,000	90.02 - Allocated Contingency
11)	FD-490	Airport Section Guideway Utilities FD	Executed Contract Amendment No. 012 - Contaminated Soil, 7 Piers, Wayside Lubricators	(\$56,700)	90.02 - Allocated Contingency
12)	FD-550	Dillingham Kaka'ako Stations Group FD	Executed Contract Amendment No. 003 - Scope for Downtown Sa/Civic Center Stair/Kapalama Sta. & Bike Ramps	(\$480,017)	90.02 - Allocated Contingency
13)	FD-550	Dillingham Kaka'ako Stations Group FD	Executed Contract Amendment No. 004 - Ala Moana Transit Ctr/Chinatown Sta. Gedrech Expedited Station Locks	(\$518,717)	90.02 - Allocated Contingency
14)	FD-240	Farrington Highway Stations Group-2 FD	Executed Contract Amendment No. 005 - Addition of 30 Guideway Section West Loch and Waipahu Stations	(\$17,744)	90.02 - Allocated Contingency
15)	FD-240	Farrington Highway Stations Group-2 FD	Executed Contract Amendment No. 006 - Addition of 30 Guideway Section West Loch and Waipahu Stations	(\$57,000)	90.02 - Allocated Contingency
16)	FD-240	Farrington Highway Stations Group-2 FD	Executed Contract Amendment No. 007 - WOODS to West Loch and Waipahu Grider Design	(\$38,000)	90.02 - Allocated Contingency
January '15 Contingency Drawdown				(\$3,885,243)	
February '15				\$519.8	
Core Systems Contract Design Build O/M				\$519.8	
1)	DB-120	West Oahu Farmington Highway Guideway DB	Executed Change Order No. 058 - Kalo'i Drainage Channel Geotechnical	(\$397,501)	90.02 - Allocated Contingency
2)	DB-120	West Oahu Farmington Highway Guideway DB	Executed Change Order No. 059 - Revision of Waipahu Guideway, LCC Station, & Pedestrian Vibration Criteria	(\$301,052)	90.02 - Allocated Contingency
3)	DB-120	West Oahu Farmington Highway Guideway DB	Executed Change Order No. 060 - Waiawa Scour Design Actuals	(\$286,494)	90.02 - Allocated Contingency
4)	DB-120	West Oahu Farmington Highway Guideway DB	Executed Change Order No. 061 - Kalo'i Scour Design Actuals	(\$536,571)	90.02 - Allocated Contingency
5)	DB-120	West Oahu Farmington Highway Guideway DB	Executed Change Order No. 062 - West Loch and UHWO Station Revisions of Guideway	(\$64,212)	90.02 - Allocated Contingency
6)	DB-120	West Oahu Farmington Highway Guideway DB	Executed Change Order No. 063 - Procurement & Delivery LCC Modular Bltg	(\$1,919,021)	90.01 - Unallocated Contingency
February '15 Contingency Drawdown				(\$4,196,851)	
February '15 - Ending Contingency Balance				\$515.6	
March '15				\$515.6	
Core Systems Contract Design Build O/M				\$515.6	
1)	DBOM-920	Core Systems Contract Design Build O/M	Executed Change Amendment No. 015 - Test and Storage Track Changes at MSF	(\$2,510,000)	90.02 - Allocated Contingency
2)	FD-140	West Oahu Stations Group FD	Executed Change Amendment No. 013 - WOSG Rebid and VE Items, 486 Bay Station Canopy Roots, Change to CSC Dev. location	(\$390,000)	90.02 - Allocated Contingency
3)	FD-140	West Oahu Stations Group FD	Executed Change Amendment No. 013 - WOSG Rebid and VE Items, 486 Bay Station Canopy Roots, Change to CSC Dev. location	(\$246,000)	90.03 - Contract Allowance
4)	FD-530	City Center Guideway Utilities FD	Executed Change Amendment No. 006 - Management Extension thru October 2014	(\$992,500)	90.02 - Allocated Contingency
5)	DBB-526	Airport Section Guideway 7 Pier Construction	Executed Change Order No. 001 - HDOT A Utility Relocation at Piers	(\$490,853)	90.02 - Allocated Contingency
6)	FD-340	Kamehameha Highway Stations Group FD	Executed Change Amendment No. 006 - Misc RF's Interface Items	(\$309,176)	90.02 - Allocated Contingency
7)	FD-340	Kamehameha Highway Stations Group FD	Executed Change Amendment No. 006 - Alpha Stadium Low Impact Development Requirement	(\$43,000)	90.03 - Contract Allowance
March '15 Contingency Drawdown				(\$4,910,539)	
April '15				\$510.7	
West Oahu Stations Group FD				\$510.7	
1)	FD-140	West Oahu Stations Group FD	Executed Contract Amendment No. 014 - Redesign of East Kapolei Escalator	(\$66,000)	90.02 - Allocated Contingency
2)	FD-140	West Oahu Stations Group FD	Executed Contract Amendment No. 014 - Hoopili Grading	(\$176,000)	90.03 - Contract Allowance
3)	FD-140	West Oahu Stations Group FD	Executed Contract Amendment No. 015 - Redesign of IPSS Trench at USS and CSC Cabinals at East Kapolei	(\$28,000)	90.02 - Allocated Contingency
4)	DBB-526	Airport Section Guideway 7 Pier Construction	Executed Change Order No. 002 - Contractor to Perform CSL Testing	(\$17,378)	90.02 - Allocated Contingency
5)	DB-120	West Oahu Farmington Highway Guideway DB	Executed Change Order No. 049 - Hazmat Assessment for LCC Portables	(\$9,174)	90.02 - Allocated Contingency

HART Project Contingency Drawdown with Details

Date as of 10/30/15

#	Project No.	Project Desc.	Budget Transfer/Change Description	Contingency Drawdown (F/A)	Contingency Code
April '15 Contingency Drawdown					
April '15 - Ending Contingency Balance				\$510.4	
May '15					
1)	FD-140	West Oahu Stations Group FD	Executed Contract Amendment No. 016 - PS&G/Rev 15 Canopy Design/Power to Hoopii Sta./Scour Countermeasures	(\$132,000)	90.03 - Contract Allowance
2)	FD-240	Farrington Highway Stations Group-2 FD	Executed Contract Amendment No. 008 - West Lech Generator	(\$7,000)	90.03 - Contract Allowance
3)	FD-240	Farrington Highway Stations Group-2 FD	Executed Contract Amendment No. 009 - H/A Construction Investigation	(\$30,000)	90.02 - Allocated Contingency
4)	DB-320	Kamehameha Highway Guideway DB	Executed Change Order No. 018 - Delay to Method Shift 6	(\$174,161)	90.02 - Allocated Contingency
5)	DBCM-920	Core Systems Contract Design Build O/M	Executed Change Order No. 018 - Delay to Method Shift 6	(\$400,000)	90.02 - Allocated Contingency
6)	DB-200	Maintenance & Storage Facility DB	Executed Change Order No. 030 - OS-18-FH Beg. IM Ex System Design Rev	(\$915,688)	90.02 - Allocated Contingency
May '15 Contingency Drawdown					
May '15 - Ending Contingency Balance				\$609.8	
Jun '15					
1)	MM-923	HDOT Coordination Consult City Center	Budget Transfer from Inactive C/P - HDOT Airport consultant took on City Center scope	\$1,094,782	90.01 - Unallocated Contingency
2)	MM-990	Archaeological & Cultural Monitoring	Budget Transfer to Provide Funding for FY2015	(\$531,692)	90.01 - Unallocated Contingency
3)	MM-923	HDOT cord	Executed Contract Amendment No. 019 - Airport Design Build Package	(\$523,640)	90.02 - Allocated Contingency
4)	MM-901	Program Management Support Const.(PMSC-2)	Budget Transfer for exercised option for one year extension of services	(\$7,616,377)	90.01 - Unallocated Contingency
5)	DBCM-920	Core Systems Contract Design Build O/M	Budget Transfer for On Call Contractor performing CSC related scope at the ROC	(\$500,000)	90.02 - Allocated Contingency
June '15 Contingency Drawdown					
June '15 - Ending Contingency Balance				\$601.7	
Jul '15					
1)	CGH-100	City and County of Honolulu	Inactive C/P (DTS costs), reduces budget to incurred costs	\$470,656	90.01 - Unallocated Contingency
2)	DB-720	West Oahu Farrington Highway Guideway DB	Executed Contract Change Order No. 065 - Reloc of LCC/Produce/Park Ltd	(\$490,679)	90.01 - Unallocated Contingency
3)	DB-720	West Oahu Farrington Highway Guideway DB	Executed Contract Change Order No. 066 - Revised Offset LT Lane at Kahaui	(\$795,985)	90.01 - Unallocated Contingency
4)	DB-720	West Oahu Farrington Highway Guideway DB	Executed Contract Change Order No. 067 - Revised West Yard Lead	(\$124,605)	90.01 - Unallocated Contingency
5)	DB-200	Maintenance & Storage Facility DB	Executed Contract Change Order No. 031 - HDW Interior Bldg. Systems Devices	(\$190,000)	90.02 - Allocated Contingency
6)	DB-200	Maintenance & Storage Facility DB	Executed Contract Change Order No. 032 - Detention of Vegetative Roof Request	\$133,415	90.02 - Allocated Contingency
Jul '15 Contingency Drawdown					
Jul '15 - Ending Contingency Balance				\$600.7	
Aug '15					
1)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Contract Change Order No. 069 - Delay N/TP1 2 & 4 - CMC Escalation	(\$6,228,445)	90.01 - unallocated Contingency
2)	DB-200	Maintenance & Storage Facility DB	Executed Contract Change Order No. 035 - EOS Foundation	(\$44,179)	90.02 - Allocated Contingency
3)	DB-320	Kamehameha Highway Guideway DB	Executed Change Order No. 017 - Relocate Sewer Near 936-403 to 947+00	(\$181,281)	90.02 - Allocated Contingency
4)	FD-140	West Oahu Stations Group FD	Executed Contract Amendment No. 017 - Power to UHWO Station and Electrical Bonding	(\$46,000)	90.03 - Contract Allowance
5)	FD-240	Farrington Highway Stations Group-2 FD	Executed Contract Amendment No. 010 - Pedestrian Bridge Modifications	(\$18,750)	90.03 - Contract Allowance
6)	FD-340	Kamehameha Highway Stations Group FD	Executed Change Amend No. 007 - Value Engineering Reduce Sign Cost and FH, PR and AS New Platform Canopy Coordination	(\$924,522)	90.02 - Allocated Contingency
7)	FD-440	Airport Stations Group FD	Executed Contract Amendment No. 005 - Design Build Bridging Documents	(\$270,000)	90.02 - Allocated Contingency
8)	DBCM-920	Core Systems Contract Design Build O/M	Executed Change Order No. 017 - Voltage Flicker Study	(\$37,850)	90.02 - Allocated Contingency
10)	FD-560	Billingham Kaka'ako Stations Group FD	Executed Change Amend No. 00005 - Scope of Change - Schedule Extension	(\$333,595)	90.02 - Allocated Contingency
Aug '15 Contingency Drawdown					
Aug '15 - Ending Contingency Balance				\$492.9	
Sept '15					
1)	DB-320	Kamehameha Highway Guideway DB	Executed Contract Change Order No. 018 - Unknown Subsurface at Bond 422R Utility Varying from RFP	(\$92,331)	90.02 - Allocated Contingency
Sept '15 Contingency Drawdown					
Sept '15 - Ending Contingency Balance				\$492.8	
Oct '15					
1)	FD-340	Kamehameha Highway Stations Group FD	Executed Change Amend No. 008 - Interface Coordination	(\$183,000)	90.02 - Allocated Contingency
2)	FD-340	Kamehameha Highway Stations Group FD	Executed Change Amend No. 009 - Reopen of N/TP4	(\$80,000)	90.02 - Allocated Contingency
3)	FD-240	Farrington Highway Stations Group-2 FD	Executed Change Amend No. 011 - N/TP Extension	(\$50,000)	90.02 - Allocated Contingency
4)	FD-240	Farrington Highway Stations Group-2 FD	Executed Change Amend No. 012 - W/ Switchgear Pad & TRSS Foundation	(\$34,000)	90.02 - Allocated Contingency
5)	FD-140	West Oahu Stations Group FD	Executed Contract Amendment No. 018 - N/TP 4 Reopen/stop	(\$50,000)	90.02 - Allocated Contingency
6)	FD-140	West Oahu Stations Group FD	Executed Contract Amendment No. 019 - East Kapi'olei Bent Perfections	(\$40,000)	90.03 - Contract Allowance
7)	FD-440	Airport Stations Group FD	Executed Contract Amendment No. 008 - General Excise Tax Credit	\$98,353	90.02 - Allocated Contingency
8)	DBCM-920	Core Systems Contract Design Build O/M	Executed Change Order No. 018 - Settlement of RFOC 00009/010 - Delay Claim resubmits	(\$47,000,000)	90.02 - Allocated Contingency
9)	DBCM-920	Core Systems Contract Design Build O/M	Executed Change Order No. 019 - Credit for four car Consist. summarizes the requirements for mixed fleet operations	\$5,200,000	90.02 - Allocated Contingency
Oct '15 Contingency Drawdown					
Oct '15 - Ending Contingency Balance				\$489.0	

Appendix C. Project Cost Reports (data as of Oct. 30, 2015)

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

Project Costs by Contract



Costs Reported as of Month Ending: October 2015
Project Monthly Cost Report by Contract - One Line Summary

Page: 1 of 3

CPP No.	Title	T&M	A		B		C=A+B		D		E		F	
			Original	Changes	COMMITTED	Current *	AFE**	AFE**	Incurred To Date	Incurred To Date	PERCENT	PERCENT		
ART	ART Contracts		0	0	0	0	0	0	0	0	0	0	0	0%
CCH-000	Operating/Maintenance Contracts	FFF	280,970	-58,970	222,000	222,000	1,41,000	139,030	139,030	30%	139,030	139,030	30%	
CCH-100	Inactive HART/City CCH		15,348,443	0	15,348,443	15,348,443	0	14,925,228	14,925,228	97%	14,925,228	14,925,228	97%	
CCH-101	HART/City Dept of BFS		105,092	0	105,092	105,092	0	0	0	0%	0	0	0%	
CCH-102	HART/City DDC Land Division		256,201	0	256,201	256,201	0	173,182	173,182	68%	173,182	173,182	68%	
CCH-107	HART/City Corporation Counsel (COPR)		1,668,130	0	1,668,130	1,668,130	0	151,878	151,878	9%	151,878	151,878	9%	
CCH-108	HART /Board of Water Supply(BWS)		928,325	0	928,325	928,325	0	928,325	928,325	100%	928,325	928,325	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	478,279,230	478,279,230	76%	478,279,230	478,279,230	76%	
DB-200	Maintenance & Storage Facility DB	SOM	195,238,000	79,620,772	274,878,772	274,878,772	207,909,506	230,308,016	230,308,016	84%	230,308,016	230,308,016	84%	
DB-320	Kamehameha Hwy Guideway DB	SOM	372,150,000	16,759,985	388,909,985	388,909,985	388,909,985	175,130,414	175,130,414	45%	175,130,414	175,130,414	45%	
DBB-171	West Oahu Station Group DBB	SOV	56,088,470	0	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%	
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%	
DBB-275	SPCD-Pearl Highlands Pkg. Str. Onstr.	SOV	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%	
DBB-470	SPCD-Airport Station Group Constr.	SOV	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	7,873,650	7,873,650	28%	7,873,650	7,873,650	28%	
DBB-510	City Ctr. Section Util. Constr. DBB	SOV	0	0	0	0	0	0	0	0%	0	0	0%	
DBB-520	SPCD-Airport-City Center Guideway Ontr.	SOV	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	3,796,241	3,796,241	85%	3,796,241	3,796,241	85%	
DBB-580	SPCD-Dillingham/Kaka'ako S/G Ontr.	SOV	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%	
DBB-M-920	Core Systems Design Build D/M	SOM	573,782,793	24,780,894	598,563,687	598,563,687	582,648,675	157,005,259	157,005,259	26%	157,005,259	157,005,259	26%	
FD-140	West Oahu Station Group FD	SOM	7,789,000	2,275,305	10,064,305	10,064,305	9,883,311	9,093,096	9,093,096	90%	9,093,096	9,093,096	90%	
FD-240	Farrington Highway Stations Group FD	SOM	9,300,696	4,981,349	14,282,045	14,282,045	13,939,393	12,546,293	12,546,293	88%	12,546,293	12,546,293	88%	
FD-245	SPCD-Pearl Highlands Pkg. Str. FD	SOM	0	0	0	0	0	0	0	0%	0	0	0%	
FD-340	Kamehameha Hwy Station Group FD	SOM	8,702,582	1,156,638	9,859,220	9,859,220	9,828,016	8,843,841	8,843,841	90%	8,843,841	8,843,841	90%	
FD-430	SPCD-Airport Sect. Guideway/Util. FD	SOM	38,840,960	4,293,512	43,134,472	43,134,472	43,134,472	41,073,203	41,073,203	95%	41,073,203	41,073,203	95%	
FD-440	SPCD-Airport Station Group FD	SOM	10,177,365	1,396,487	11,573,852	11,573,852	10,635,739	9,801,978	9,801,978	85%	9,801,978	9,801,978	85%	
FD-530	SPCD - City Center Guideway/Util. FD	SOM	43,948,220	2,235,303	46,183,523	46,183,523	43,567,202	40,075,466	40,075,466	87%	40,075,466	40,075,466	87%	
FD-550	SPCD - Dillingham and Kaka'ako S/G FD	SOM	18,321,918	966,124	19,308,042	19,308,042	15,732,737	11,462,105	11,462,105	59%	11,462,105	11,462,105	59%	
FD-600	Park-and-Ride Lots Final Design	SOM	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	42,627,770	42,627,770	99%	42,627,770	42,627,770	99%	

* Current Committed = Original Contract + CCO/Amendment

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



Costs Reported as of Month Ending: October 2015
Project Monthly Cost Report by Contract - One Line Summary

CPP No	Title	A		B		C=A+B		D		E		F	
		Original	Changes	COMMITTED	Changes	Current*	Current*	AFE**	AFE**	Incurred To Date	Incurred To Date	PERCENT	PERCENT
HRT-201	HART ODC Contracts	15,853,154	0	0	0	15,853,154	0	130,100	17,470,742	0	0	110%	0%
MI-900	Fare Collection DFI	0	0	0	0	0	0	0	0	0	0	0%	0%
MI-930	Elevators & Escalators Install/Maint	50,982,714	0	0	0	50,982,714	0	5,442,108	4,784,807	0	0	9%	0%
MM-280	SPCD-WO/FH/KHS/D CE&I(REPA,CKA,GED)	0	0	0	0	0	0	0	0	0	0	0%	0%
MM-290	Construction Engg & Insp CEI West	54,232,480	0	0	0	54,232,480	0	16,650,000	17,725,316	0	0	33%	0%
MM-385	SPCD-Pearl Highlands Garage Rmpcs CEI	0	0	0	0	0	0	0	0	0	0	0%	0%
MM-500	SPCD-By MM959 CEI East	0	0	0	0	0	0	0	0	0	0	0%	0%
MM-525	SPCD-By MM959 CEI East	0	0	0	0	0	0	0	0	0	0	0%	0%
MM-590	SPCD-By MM959 CEI East	0	0	0	0	0	0	0	0	0	0	0%	0%
MM-595	SPCD - Const. Engng & Insp. CEI East	63,083,417	-47,826,417	0	0	15,257,000	0	(32,569,417)	11,686,318	0	0	77%	0%
MM-596	Construction Engg & Insp CEI East 2	55,036,130	0	0	0	55,036,130	0	55,036,130	0	0	0	0%	0%
MM-600	SPCD-UHWD Pkg-Hooplii Stn Fresh CEI	0	0	0	0	0	0	0	0	0	0	0%	0%
MM-900	Program Mgt. Support Conslt (PM SC-1)	15,952,569	0	0	0	15,952,569	0	20,700,000	0	0	0	0%	0%
MM-901	Program Mgt. Support Conslt (PM SC-2)	33,376,897	7,616,277	0	0	40,993,274	0	34,297,167	35,809,242	0	0	87%	0%
MM-905	MM-905 Gen Engng Conslt EIS/PE	0	78,564,942	0	0	78,564,942	0	78,564,942	74,157,822	0	0	94%	0%
MM-910	MM-910 Gen Engng Conslt FD-Construct	150,000,000	0	0	0	150,000,000	0	150,000,000	149,446,962	0	0	100%	0%
MM-913	MM-913 Gen Engng Reconnect	46,143,277	0	0	0	46,143,277	0	13,078,208	21,954,215	0	0	48%	0%
MM-915	HDOT Traffic Mgmt. Consult.	1,600,000	1,400,000	0	0	3,000,000	0	4,000,000	2,766,233	0	0	92%	0%
MM-920	HDOT Coordination Conslt WOFH	3,000,000	7,500,000	0	0	10,500,000	0	10,500,000	6,446,802	0	0	61%	0%
MM-921	HDOT Coordination Conslt KHG	10,000,000	-1,400,000	0	0	8,600,000	0	5,000,000	3,781,594	0	0	44%	0%
MM-922	HDOT Coordination Conslt Airport	12,000,000	-5,600,000	0	0	6,400,000	0	3,000,000	2,360,441	0	0	37%	0%
MM-923	HDOT Coordination Conslt City Center	0	0	0	0	0	0	0	0	0	0	0%	0%
MM-925	HDOT Labor - WOFH/KHG Agreements	550,000	1,265,633	0	0	1,815,633	0	3,081,266	1,606,866	0	0	89%	0%
MM-926	HDOT Labor - Airport Agreements	0	0	0	0	0	0	0	0	0	0	0%	0%
MM-930	HDOT State SOA Manager & Consultant	1,272,400	583,142	0	0	1,855,542	0	845,167	832,095	0	0	45%	0%
MM-935	Real Estate Consultant	3,000,000	4,227,665	0	0	7,227,665	0	5,717,665	5,255,302	0	0	73%	0%
MM-937	Real Estate Consultant - Maps/Surv.	2,998,000	0	0	0	2,998,000	0	1,500,000	508,128	0	0	17%	0%
MM-940	Kakoo Consultant	1,000,000	0	0	0	1,000,000	0	500,000	518,989	0	0	52%	0%
MM-941	Kakoo Consultant II	200,000	0	0	0	200,000	0	0	0	0	0	0%	0%
MM-945	On-Call Contractor	1,000,000	1,000,000	0	0	2,000,000	0	1,800,000	1,916,645	0	0	96%	0%
MM-946	On-Call Hazmat Removal Contractor	3,075,000	0	0	0	3,075,000	0	1,000,000	2,250,867	0	0	73%	0%
MM-947	On-Call Contractor 2	7,500,000	0	0	0	7,500,000	0	4,500,000	1,879,941	0	0	25%	0%
MM-950	O.C.P. Consultant	1,250,000	0	0	0	1,250,000	0	1,250,000	937,813	0	0	75%	0%

* Current Committed = Original Contract + CCO/Amendment

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



Costs Reported as of Month Ending: October 2015
Project Monthly Cost Report by Contract - One Line Summary

CPP No	Title	A		B	COMMITTED Changes	C=A+B	Current*	D	AFE**	E	F
		Original									
										Incurred To Date	%
MM-351	Owner- Controlled Insurance Program	FFF	41,000,000	0	41,000,000	0	26,494,012	65%			
MM-360	Archaeological & Cultural Monitoring	T8M	1,010,609	0	1,010,609	0	967,161	96%			
MM-362	Core Systems Support	CPFF	43,988,989	0	43,988,989	0	11,382,948	26%			
MM-364	Safety and Security Consultant	FFF	4,639,573	112,751	4,812,324	2,612,751	2,441,676	51%			
MM-370	Fare Collection Consultant	MM	1,178,300	0	1,178,300	0	0	0%			
MM-375	LEED Commissioning Services for MSF	T8M	278,630	9,910	288,540	288,540	102,145	35%			
OTHER	All Project Wide Documents		0	0	0	0	0	0%			
PA-101	Programmatic Agreement Humanities	PA	0	0	0	0	0	0%			
PA-102	Programmatic Agreement HP C	T8MTI	400,000	0	400,000	200,000	172,325	43%			
PA-103	Programmatic Agreement HP C Park Impr	PA	0	0	0	0	0	0%			
ROW	Real Estate /Right-of-Way		89,885,511	0	89,885,511	121,892	83,607,541	93%			
UTIL	Utility Company Contracts	T8M	95,526,631	17,142,123	112,668,755	88,016,065	39,658,719	35%			
Total Project:			2,806,493,018	351,814,210	3,158,307,228	2,611,272,396	1,773,242,891				

* Current Committed = Original Contract + CCO /Amendment

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

Project Costs by SCC – Summary

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

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SCC	Title	A Baseline	B Transfers	BUDGET	C=A+B Current	D COMMITTED Current*	E AFE**	F Changes ID'd***	G ESTIMATE AT COMPLETION Est. At Completion****	H=C-G Variance	I INCURRED Incurred To Date
1. Subtotal 10 - 80 SCC Costs											
10.	Guideway & Track Elements	1,114,215,147	46,008,500	1,160,223,647	550,992,093	37,178,932	(3,295,947)	1,160,223,647	0	254,715,910	
20.	Stations, Stops, Terminals, Intermodal	421,804,740	(25,139,472)	396,666,268	186,070,184	0	0	396,666,268	0	4,784,807	
30.	Support Facilities: Yards, Shops, Admin	92,535,015	22,007,854	114,542,869	114,542,869	18,198,705	695,456	114,542,869	0	86,726,793	
40.	Site work & Special Conditions	983,178,121	45,645,584	1,028,823,705	738,179,900	171,333,867	5,839,491	1,028,823,705	0	515,837,461	
50.	Systems	221,284,301	26,296,231	247,580,532	233,598,619	27,038,099	0	247,580,532	0	34,856,568	
60.	ROW, Land, Existing Improvements	197,397,947	528,621	197,926,568	94,115,331	1,229,820	5,886,995	197,926,568	0	89,170,988	
70.	Vehicles	186,829,020	4,645,501	191,474,521	191,474,521	1,446,224	0	191,474,521	0	29,150,290	
80.	Professional Services	1,087,830,119	34,552,842	1,122,382,961	1,042,235,446	95,817,066	(23,608,248)	1,122,382,961	0	757,459,117	
Subtotal:		4,305,074,410	154,546,161	4,459,620,571	3,151,208,463	362,242,312	(14,482,308)	4,459,620,571	0	1,772,701,932	
2. NTP											
	NTP Authorized For Expenditure	0	0	0	0	0	2,255,032,795	0	0	0	
Subtotal:		0	0	0	0	0	2,255,032,795	0	0	0	
3. Contingency											
	CNTR Allocated Contingency	541,689,343	(99,579,256)	442,110,087	7,098,765	3,997,289	292,875,675	442,110,087	0	540,959	
	PRJ Unallocated Contingency	101,871,170	(54,967,905)	46,903,265	0	0	0	46,903,265	0	0	
Subtotal:		643,560,513	(154,546,161)	489,014,352	7,098,765	3,997,289	292,875,675	489,014,352	0	540,959	
4. Finance Charges - Eligible											
	OTH Finance Charges	173,058,243	0	173,058,243	0	0	0	173,058,243	0	0	
Subtotal:		173,058,243	0	173,058,243	0	0	0	173,058,243	0	0	
FIA TOTAL PROJECT COSTS 5,121,693,166											
		(0)	5,121,693,166	3,158,307,228	2,611,272,396	278,393,366	5,121,693,166	0	1,773,242,891		
4. Finance Charges - Ineligible Costs											
	FINC Finance Charges	42,000,000	0	42,000,000	0	0	0	42,000,000	0	0	
Subtotal:		42,000,000	0	42,000,000	0	0	0	42,000,000	0	0	
INELIGIBLE COSTS											
		42,000,000	0	42,000,000	0	0	0	42,000,000	0	0	
Total Project:		5,163,693,166	(0)	5,163,693,166	3,158,307,228	2,611,272,396	278,393,366	5,163,693,166	0	1,773,242,891	

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* 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

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Project Costs by SCC – Level 2

Costs Reported as of Month Ending: October 2015
 Project Monthly Cost Report by SCC Details

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SCC	Title	BUDGET		C-A+B		D	E	F	G	H-C-G	I
		Baseline	Transfers	Current	COMMITTED						
1. Subtotal 10 - 80 SCC Costs											
10.00	Guideway & Track Elements	1,114,215,147	46,008,500	1,160,223,647	550,992,093	37,178,532	(3,295,947)	1,160,223,647	0	254,715,910	
10.02	Guideway: At-grade semi-exclusive	0	17,378	17,378	17,378	17,378	0	17,378	0	17,378	
10.04	Guideway: Aerial Structure	1,022,380,671	43,014,961	1,065,395,632	485,671,878	27,439,427	(2,722,009)	1,065,395,632	0	203,730,753	
10.08	Guideway: Retained Cut or Fill	7,492,944	(1,056,688)	6,436,256	6,436,256	0	0	6,436,256	0	0	
10.09	Track: Direct Fixation	79,347,205	3,097,822	82,445,027	74,637,831	9,630,851	(673,438)	82,445,027	0	50,967,779	
10.11	Track: Ballasted	3,293,724	(595,849)	2,697,875	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	
20.00	Stations, Stops, Terminals, Intermodal	421,804,740	(25,138,472)	396,666,268	186,070,194	0	0	396,666,268	0	4,764,807	
20.01	At-grade station, stop, shelter,...	6,111,332	0	6,111,332	0	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	
20.06	Automobile parking multi-story str	66,408,765	0	66,408,765	0	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	4,764,807	
30.00	Support Facilities: Yards, Shops, Admin	92,535,015	22,007,854	114,542,869	114,542,869	18,198,705	635,456	114,542,869	0	86,726,793	
30.01	Administration Bldg: Office, sales	0	0	0	0	0	205,266	0	0	0	
30.02	Light Maintenance Facility	7,591,888	(5,095)	7,586,793	7,586,793	0	0	7,586,793	0	4,514,214	
30.03	Heavy Maintenance Facility	38,099,138	4,978,668	43,077,806	43,077,806	5,220,776	130,000	43,077,806	0	27,428,259	
30.04	Storage or Maintenance of Way Buil	7,797,460	773,770	8,571,230	8,571,230	835,320	46,900	8,571,230	0	6,159,023	
30.05	Yard and Yard Track	39,046,529	16,260,011	55,306,540	55,306,540	12,142,609	314,290	55,306,540	0	48,625,297	
40.00	Sitework & Special Conditions	983,178,121	45,645,884	1,028,823,705	738,179,900	171,333,867	5,839,481	1,028,823,705	0	515,837,461	
40.01	Demolition, Cleaning, Earthwork	29,980,158	(7,241,059)	22,739,099	8,589,446	6,923,02	536,703	22,739,099	0	2,522,102	
40.02	Site Utilities, Utility Relocation	299,449,756	9,394,912	308,844,668	215,139,991	23,763,147	0	308,844,668	0	107,531,225	
40.03	Haz. mat'l, contam'd soil removal	9,199,237	(5,288,631)	3,910,606	3,224,088	1,49,088	(391,304)	3,910,606	0	2,399,955	
40.04	Environmental Mitigation	26,379,122	4,883,249	31,962,371	16,549,945	9,137	7,727	31,962,371	0	10,532,681	
40.05	Site structures, retaining walls,	7,998,960	6,540,840	14,539,800	14,381,274	274,780	4,647,403	14,539,800	0	4,323,004	
40.06	Pedestrian/bike access/landscaping	41,073,897	741,177	41,815,074	4,991,868	(4,566)	478,020	41,815,074	0	50,000	
40.07	Auto, bus, van accessways	181,379,367	(15,949,515)	166,029,852	36,321,054	1,552,538	1,349,562	166,029,852	0	4,535,519	
40.08	Temporary Facilities/Indirect Cost	386,517,624	52,464,611	438,982,235	438,982,235	144,897,440	(788,880)	438,982,235	0	383,942,975	
50.00	Systems	221,284,301	26,296,231	247,580,532	233,598,619	27,038,099	0	247,580,532	0	34,856,568	
50.01	Train control and signals	81,982,556	24,381,140	106,363,696	106,363,696	23,961,050	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	
50.03	Traction power supply: substation	29,500,326	1,379,880	30,880,206	30,880,206	(87,485)	0	30,880,206	0	4,601,819	

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*** Changes Identified= Pending + Probable + Potential Changes

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

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Costs Reported as of Month Ending: October 2015
Project Monthly Cost Report by SCC Details

SCC	Title	A		B		C=A+B		D		E		F		G		H=C-G		I	
		Baseline	Budget	Transfers	Current	COMMITTED	AFE**	Changes ID'd***	ESTIMATE AT COMPLETION	Variance	Incurred To Date								
1. Subtotal 10 - 80 SCC Costs																			
50. Systems		221,284,301	26,296,231	247,580,532	233,598,619	27,093,939	0	247,580,532	0	34,856,568	0	0	0	0	0	0	0	0	0
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	16,860,895	0	0	0	0	0	0	0	0	0
50.05	Communications	53,691,339	6,133,477	59,824,816	59,824,816	5,573,419	0	59,824,816	0	12,274,783	0	0	0	0	0	0	0	0	0
50.06	Fare collection system and equips	9,159,277	(10,291,178)	(1,131,901)	46,399	(10,350,000)	0	(1,131,901)	0	(1,131,901)	0	0	0	0	0	0	0	0	0
50.07	Central Control	3,613,827	(160,036)	3,453,791	3,453,791	0	0	3,453,791	0	0	0	0	0	0	0	0	0	0	0
80. ROW, Land, Existing Improvements		197,997,947	528,621	197,326,568	94,115,331	1,229,820	5,886,995	197,326,568	0	89,170,988	0	0	0	0	0	0	0	0	0
80.01	Purchase or lease of real estate	179,360,664	250,821	179,611,485	86,269,854	52,020	4,986,995	179,611,485	0	79,296,996	0	0	0	0	0	0	0	0	0
80.02	Relocation of existing households	18,037,283	277,800	18,315,083	7,845,477	1,177,800	900,000	18,315,083	0	9,873,992	0	0	0	0	0	0	0	0	0
70. Vehicles		186,829,020	4,645,501	191,474,521	191,474,521	1,446,224	0	191,474,521	0	29,150,290	0	0	0	0	0	0	0	0	0
70.01	Light Rail	166,721,386	5,847,191	172,568,577	172,568,577	1,446,224	0	172,568,577	0	21,357,829	0	0	0	0	0	0	0	0	0
70.06	Non-revenue vehicles	14,346,923	(1,320,375)	13,026,548	13,026,548	0	0	13,026,548	0	7,792,461	0	0	0	0	0	0	0	0	0
70.07	Spare parts	5,760,711	119,685	5,879,396	5,879,396	0	0	5,879,396	0	0	0	0	0	0	0	0	0	0	0
80. Professional Services		1,087,830,119	34,552,842	1,122,382,961	1,042,235,446	95,817,066	(23,608,243)	1,122,382,961	0	757,459,117	0	0	0	0	0	0	0	0	0
80.01	Preliminary Engineering	94,055,262	24,644,185	118,699,447	109,567,127	20,905,682	0	118,699,447	0	102,945,648	0	0	0	0	0	0	0	0	0
80.02	Final Design	228,321,632	(7,125,848)	221,195,784	204,298,436	29,884,010	(6,344,965)	221,195,784	0	161,174,786	0	0	0	0	0	0	0	0	0
80.03	Project Management Design & Cons	363,849,788	(28,383,713)	335,466,055	412,031,105	73,504,181	(17,255,843)	335,466,055	0	304,700,718	0	0	0	0	0	0	0	0	0
80.04	Constr. Admin. & Management	199,656,728	(85,798,681)	163,858,047	110,767,170	(49,617,462)	768,374	163,858,047	0	79,383,833	0	0	0	0	0	0	0	0	0
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	28,391,124	0	0	0	0	0	0	0	0	0
80.06	Legal: Permits Review Fees e.t..	67,641,005	(3,206,464)	64,434,541	37,005,403	3,782,053	0	64,434,541	0	20,506,227	0	0	0	0	0	0	0	0	0
80.07	Surveys, Testing, Investigation, I	21,739,336	47,172,110	68,931,446	67,822,570	1,496,194	0	68,931,446	0	28,208,638	0	0	0	0	0	0	0	0	0
80.08	Start up	65,996,664	8,463,316	74,465,980	57,568,977	9,661,909	(775,809)	74,465,980	0	32,148,143	0	0	0	0	0	0	0	0	0
Subtotal:		4,305,074,410	154,546,161	4,459,620,571	3,151,208,463	352,242,312	(14,482,308)	4,459,620,571	0	1,772,701,932	0	0	0	0	0	0	0	0	0
2. NTP																			
NTP Authorized For Expenditure		0	0	0	0	2,255,032,795	0	2,255,032,795	0	0	0	0	0	0	0	0	0	0	0
NTP Notice To Proceed		0	0	0	0	2,255,032,795	0	2,255,032,795	0	0	0	0	0	0	0	0	0	0	0
Subtotal:		0	0	0	0	2,255,032,795	0	2,255,032,795	0	0	0	0	0	0	0	0	0	0	0
3. Contingency																			
CMTR Allocated Contingency		541,689,343	(89,578,256)	442,111,087	7,098,765	3,997,289	292,875,675	442,111,087	0	540,959	0	0	0	0	0	0	0	0	0
90.02	Allocated Contract Contingency	540,101,329	(101,731,985)	438,349,344	3,997,289	3,997,289	287,929,729	438,349,344	0	540,959	0	0	0	0	0	0	0	0	0
90.03	Allowances	1,588,014	2,173,729	3,761,743	3,101,476	0	4,946,946	3,761,743	0	0	0	0	0	0	0	0	0	0	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



Costs Reported as of Month Ending: October 2015
Project Monthly Cost Report by SCC Details

SCC	Title	BUDGET		COMMITTED	AFE**	ESTIMATE AT COMPLETION	INCURRED			
		Transfers	Current					Current*	AFE**	Changes ID'd***
		A	B	C=A+B	D	E	F	G	H=C-G	I
3. Contingency										
CNTR	Allocated Contingency	541,689,343	(89,578,246)	442,111,087	7,098,765	3,897,289	292,875,675	442,111,087	0	540,959
90.03	Allowances	1,388,014	2,173,729	3,761,743	3,101,478	0	4,946,946	3,761,743	0	0
90.07	Known Change Contingency	0	0	0	0	0	0	0	0	0
PRJ	Unallocated Contingency	101,871,170	(54,967,905)	46,903,265	0	0	0	46,903,265	0	0
90.01	Unallocated Project Contingency	101,871,170	(54,967,905)	46,903,265	0	0	0	46,903,265	0	0
Subtotal:		643,560,513	(154,546,161)	489,014,352	7,098,765	3,897,289	292,875,675	489,014,352	0	540,959
4. Finance Charges - Eligible										
OTH	Finance Charges	173,058,243	0	173,058,243	0	0	0	173,058,243	0	0
100.1	Finance Charges: Project-Eligible	173,058,243	0	173,058,243	0	0	0	173,058,243	0	0
Subtotal:		173,058,243	0	173,058,243	0	0	0	173,058,243	0	0
FTA TOTAL PROJECT COSTS		5,421,693,166	(0)	5,121,693,166	3,158,307,228	2,611,272,396	278,393,366	5,121,693,166	0	1,773,242,891
4. Finance Charges - Ineligible Costs										
FINC	Finance Charges	42,000,000	0	42,000,000	0	0	0	42,000,000	0	0
100.2	FTA Non-Eligible Costs	42,000,000	0	42,000,000	0	0	0	42,000,000	0	0
Subtotal:		42,000,000	0	42,000,000	0	0	0	42,000,000	0	0
INELIGIBLE COSTS		42,000,000	0	42,000,000	0	0	0	42,000,000	0	0
Total Project:		5,163,693,166	(0)	5,163,693,166	3,158,307,228	2,611,272,396	278,393,366	5,163,693,166	0	1,773,242,891

* 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 '10	June 30 '11	Jul 12 '11	Sep 16 '16
DBOM-920	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 31 '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 10 '13	Sep 27 '13	Sep 30 '13	Nov 14 '16
FD-340	Kamehameha Highway Station Group Final Design (includes H2/R2 Ramp) and	Anil Verma Associates, Inc.	Jun 28 '11	Nov 16 '12	Nov 26 '12	Jun 14 '17
FD-430	Airport 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	City Center Section Guideway and Utilities Final Design and Support	AECOM Technical Services, Inc.	Dec 16 '11	Jul 30 '12	Jul 31 '12	Apr 30 '18
FD-440	Airport Station Group Final Design and Support	AECOM Technical Services, Inc.	Mar 30 '12	Nov 7 '12	Nov 14 '12	Jul 15 '17
FD-550	Dillingham and Kaka'ako Station Groups "East Side Stations" Final Design and	Perkins+Will	Nov 16 '12	Aug 15 '13	Aug 19 '13	Jul 30 '18
MM-290	Construction Engineering & Inspection West Side Sections	PGH Wong Engineering, Inc.	Jul 26 '13	Jan 9 '14	Jan 09 '14	Mar 01 '19
MM-595	Construction Engineering & Inspection East Side Sections	URS Corporation	Jul 26 '13	Jan 07 '14	Jan 09 '14	Oct 09 '15
MM-901	Program Management Support Consultant -2 (PMSC-2)	InfraConsult LLC	Aug 03 '11	Feb 28 '12	Mar 08 '12	Mar 07 '16
MM-910	General Engineering Consultant II (GEC-2) (Final Design and Construction)	Parsons Brinckerhoff	Sep 03 '09	Jun 30 '11	Aug 02 '11	Dec 31 '14
MM-913	General Engineering Consultant III (GEC-3)	CH2M HILL	Jul 26 '13	Dec 5 '13	Dec 05 '13	Apr 5 '19
MM-935	Real Estate Consultant	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 10 '13	Jan 15 '14	Jan 15 '14	May 30 '18
MM-962	CORE Systems Support	Lea+Elliott, Inc.	Sep 13 '13	Feb 10 '14	Feb 11 '14	Mar 01 '19
MM-964	Safety / Security Support	Lawson & Associates, Inc.	Oct 23 '13	Apr 23 '14	May 01 '14	Dec 14 '17
MM-975	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-915	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 (CE&I) "I" 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-385	Ramp H2R2	Royal Contracting Co. Ltd.	Jan 30 '15	May 18 '15	May 18 '15	Jun 17 '16
DBB-505	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 20 '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
DB-450	Airport Guideway and Stations	Apr 07 '15	Aug 11 '15	Feb 23 '16	Apr 06 '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-550	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 18 '15	Nov 17 '15	-	Jan 19 '16	NTP + 32 months
	Independent Financial Auditor "II" Contract	Oct 26 '15	Dec 01 '15	-	Feb 19 '16	NTP + 48 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 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 11/30/15)						
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	\$68,082	\$204,698
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	\$249,558	
				SC-HRT-1400049 MM-962	\$281,440	\$5,914,737
Lawson & Associates	541690	O	F	SC-HRT-11H0131 MM-905	\$740,962	
				SC-DTS-0700001 **** MM-910	\$150,141	
				SC-HRT-1400061 MM-964	\$953,057	\$1,844,160
Gary K. Omori	541618	APA	M	SC-HRT-11H0131 MM-905	\$388,609	

DBE Participation (9/24/07 to 11/30/15)						
DBE Firm	NAICS Code	Race	Sex	Contract Number	Participation to Date	Total DBE Participation
				SC-DTS-0700001 **** MM-910	\$392,920	\$781,529
Pat Lee & Assoc.	541618	APA	M	SC-HRT-11H0131 MM-905	\$402,791	
				SC-DTS-0700001 **** MM-910	\$374,110	\$776,901
212 Harakawa	541430	APA	F	SC-HRT-11H0131 MM-905	\$358,141	
				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	\$762,912	\$898,193
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	\$1,231,823	\$1,231,823
The Solis Group	541620	O	F	SC-HRT-1400027 MM-913	\$1,034,412	\$1,034,412
Island Hauling	484110	APA	M	CT-HRT-1000449 DB-200	\$211,831	\$211,831
ADS System Safety Consulting *****	541620	BA	M	SC-HRT-1400061 MM-964	\$1,328,613	\$1,328,613
Dovetail Consulting	541330	BA	F	MOU-11-SO-1 MM-930	\$783,335	\$783,335
Amazon Construction Co.	238990	APA	F	CT-HRT-1500056 MM-945	\$446,558	\$446,558

DBE Participation (9/24/07 to 11/30/15)						
DBE Firm	NAICS Code	Race	Sex	Contract Number	Participation to Date	Total DBE Participation
Aloha Steel	238120	APA	M	CT-HRT-1500056 MM-945	\$176	\$176
Carol Kwan Consulting	561730	O	F	CT-HRT-1500056 MM-945	\$13,291	\$13,291
Total						\$29,517,224

* 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	Oct. 2015 # of Risks	November 2015 Update		
		Total # of Risks	New Risks	Deleted Risks
Project Wide	4	4	0	0
WOFH Guideway	21	20	0	1
Pearl Highlands Garage	3	3	0	0
Maintenance and Storage Facility	4	4	0	0
Kamehameha Highway Guideway	16	17	1	0
Core Systems Contract	7	9	2	0
Elevator/Escalator	4	4	0	0
Airport Utilities	5	5	0	0
Farrington Highway Stations	4	4	0	0
H2R2 Ramp	2	1	0	1
West Oahu Stations	5	5	0	0
Kam. Highway Stations	7	7	0	0
Airport Guideway & Stations	26	28	2	0
City Center Guideway	25	25	1	1
City Center Section Stations	9	9	0	0
Total	142	145	6	3

Notes of Significance:

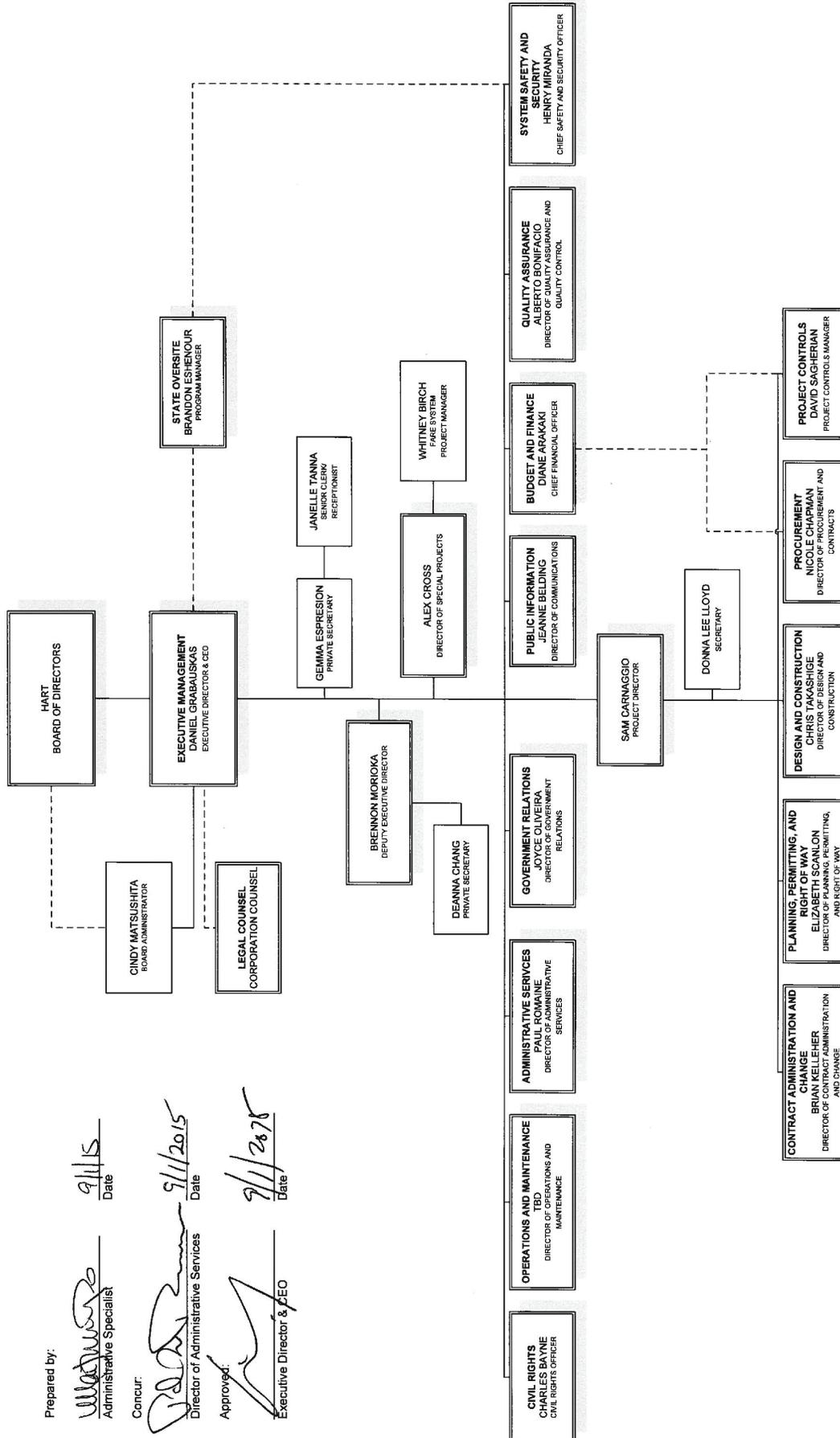
The City Center Stations duplicates with City Center Guideway have been deleted. The metrics will be combined in the future.

Comparison of Risk Ratings								
Contract Package/Section	October 2015 # of Risks				November 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	20	1	14	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	17	2	10	5
Core Systems Contract	7	0	4	3	9	1	5	3
Elevator/Escalator	4	2	2	0	4	2	2	0
Airport Utilities	5	1	4	0	5	1	3	1
Farrington Highway Stations	4	0	4	0	4	0	4	0
H2R2 Ramp	2	0	2	0	1	0	1	0
West Oahu Stations	5	0	5	0	5	0	5	0
Kam. Highway Stations	7	1	2	4	7	0	4	3
Airport Guideway & Stations	26	5	19	2	28	5	21	2
City Center Guideway	25	11	11	3	25	9	12	4
City Center Stations	9	1	8	0	9	1	8	0
Total	142	27	89	26	145	23	95	27

Appendix H. Project Organization Chart

September 1, 2015

HONOLULU AUTHORITY FOR RAPID TRANSPORTATION



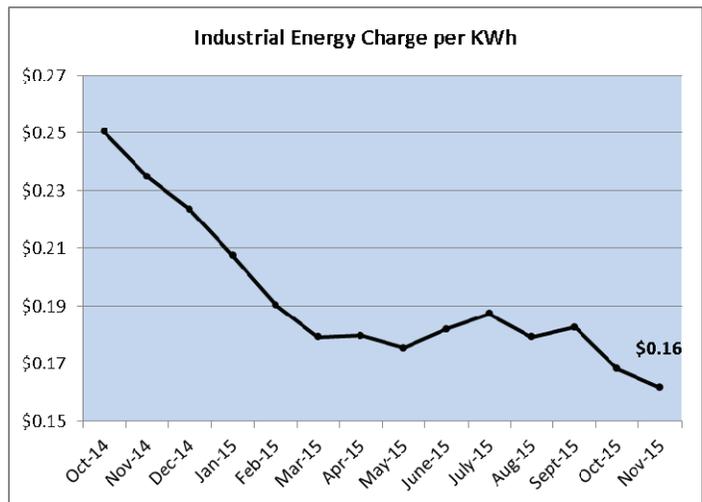
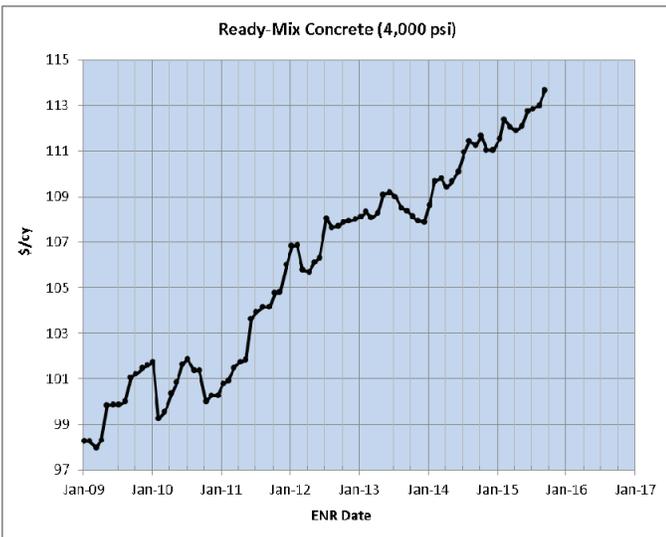
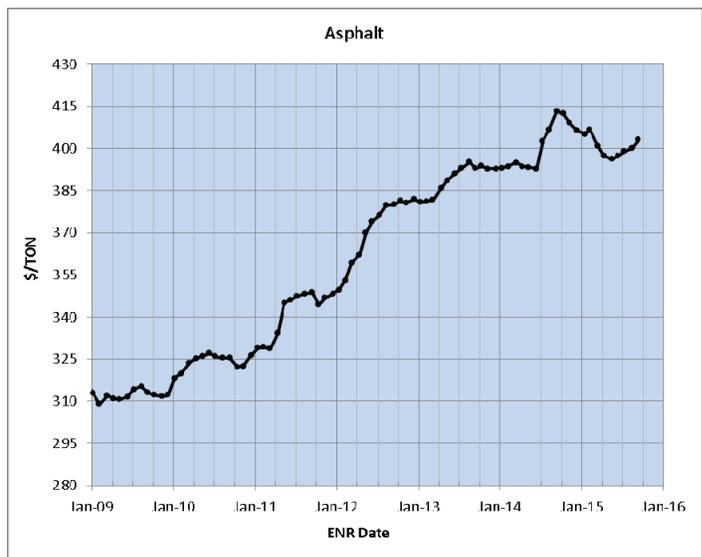
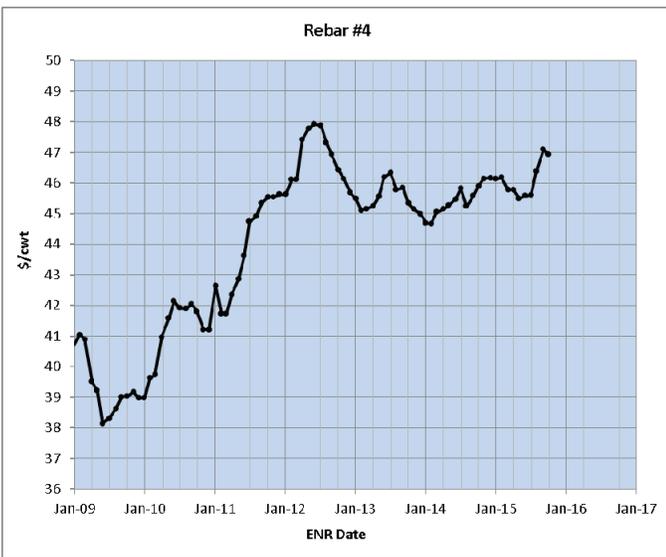
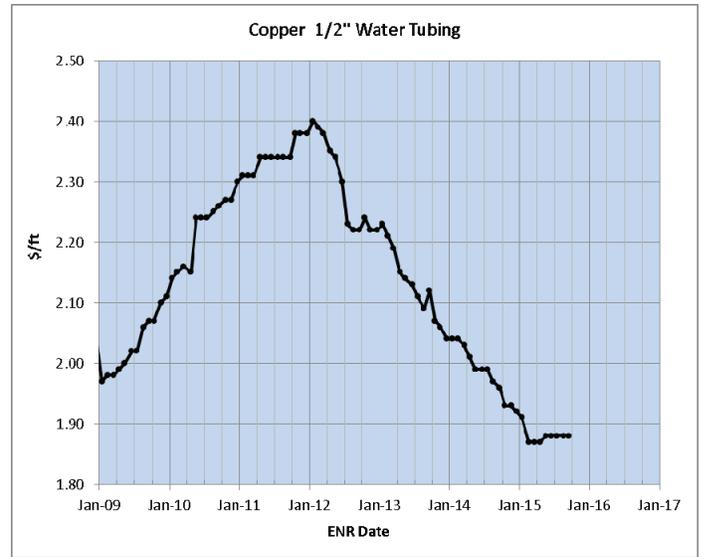
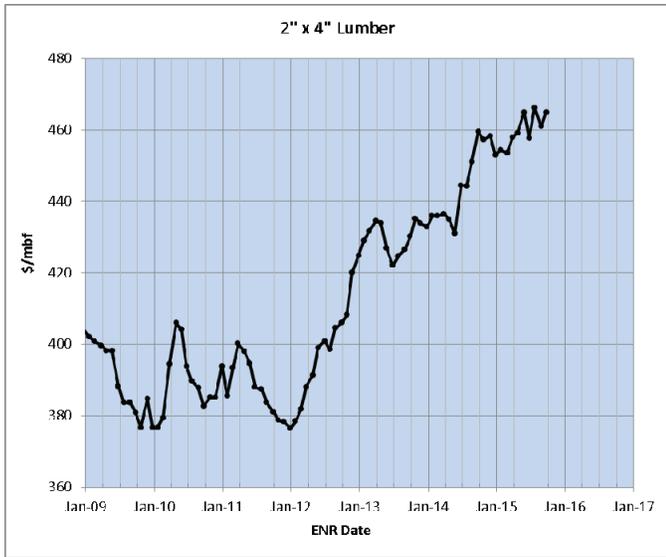
Prepared by: *[Signature]* Administrative Specialist Date: 9/1/15

Concur: *[Signature]* Director of Administrative Services Date: 9/1/2015

Approved: *[Signature]* 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 P Rate

Appendix J. Project Photos



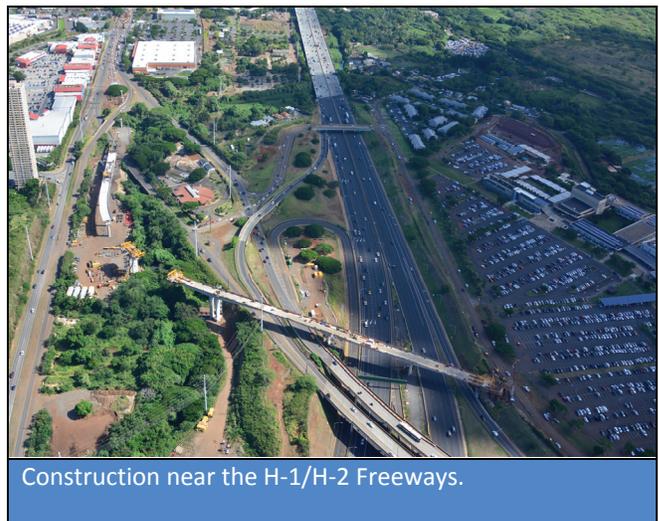
Guideway construction in West O'ahu.



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.