HONOLULU RAIL TRANSIT PROJECT

February 2016
MONTHLY PROGRESS REPORT

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

HRHP	Hawai'i Register of Historic Places
HRI	Hitachi Rail Italy
HRTP	Honolulu Rail Transit Project
HTI	Hawaiian Telcom
HTL	Hazard Tracking Log
HVAC	Heating, Ventilation and Air Conditioning
I&T	Inspection & Testing
IAMR	Interstate Access Modification Report
ICCS	Integrated Communications Control System
ICD	Interface Control Documents
ICE	Independent Cost Estimate
ICM	Interface Control Manual
ICWG	Interim Certification Working Group
IDS	Intrusion Detection System
IFB	Issued for Bid
IFC	Issued for Construction
IJ	Insolation Joint
INMS	Integrated Network Management System
IP	Implementing Procedures
ITP	Inspection and Test Plan
ITS	Intelligent Transportation Systems
JTMS	Joint Traffic Management System
JU&O	Joint Use & Occupancy
JUOA	Joint Use and Occupancy Agreement
KCDD	Kaka'ako Community Development District
KCH	Kanehili Cultural Hui
KHG	Kamehameha Highway Guideway
KHSG	Kamehameha Highway Station Group
KIWC	Kiewit Infrastructure West Company
KKJV	Kiewit/Kobayashi Joint Venture
LCC	Leeward Community College
LEED	Leadership in Energy and Environmental Design
LPR	License Plate Reader
LRV	Light Rail Vehicle
MIM	Manufacture-Install-Maintain
MMIS	Maintenance Management Information System
MMP	Mitigation Monitoring Program
MOT	Maintenance of Traffic
MOU	Memorandum of Understanding
MOW	Maintenance of Way
MPS	Master Project Schedule
MPSS	Master Project Schedule Summary
MPV	Multiple Purpose Vehicle
MS4	Municipal Separate Storm Sewer System
MSE	Mechanically Stabilized Earth
MSF	Maintenance and Storage Facility
MTM	Modern Track Machineries
NCE	Non-Conformance Evaluation
NCR	Non-Conformance Report
NDC	Notice of Design Change
NEPA	National Environmental Policy Act
NHL	National Historic Landmark
NOI	Notice of Intent
NPDES	National Pollutant Discharge Elimination System
NPS	National Park Service
NR	National Register
NRHP	National Register of Historic Places
NSM	Negotiation Strategy Memo
NTP	Notice to Proceed
NTS	Network Time Server
O&M	Operations and Maintenance
OCC	Operations Control Center
OCIP	Owner-Controlled Insurance Program
OIBC	O'ahu Island Burial Council
OIL	Open Items List
OMPO	Oahu Metropolitan Planning Organization
ORCC	Operational Readiness Conformance Checklists
OSB	Operations and Servicing Building
OSHA	Occupational Safety and Health Administration
OTS	O'ahu Transit Services
OTW	Oceanic Time Warner
OTWC	Oceanic Time Warner Cable
P3	Public-private partnership
PA	Programmatic Agreement
PAIS	Programmatic Agreement Implementation Schedule
PARs	Preventative Actions
PB	Parsons Brinckerhoff, Inc.
PE	Preliminary Engineering
PGC	Pacific Guardian Center
PHA	Preliminary Hazard Analysis
PICM	Project Interface Control Manual
PIG	Permitted Interaction Group
PIM	Project Interface Manager
PLA	Project Labor Agreement
PLO	Priority-Listed Offerors
PM	Project Managers
PMC	Project Management Consultant
PMIM	Project Management and Interface Management
PMOC	Project Management Oversight Contractor
PMSC	Program Management Support Consultant
PPE	Personal Protective Equipment
PSG	Platform Screen Gate
PSGS	Platform Screen Gate System
PUP	Property Utilization Plan
PV	Passenger Vehicle
QA	Quality Assurance
QAM	Quality Assurance Manager
QAP	Quality Assurance Plan
QC	Quality Control
QMP	Quality Management Plan
QMS	Quality Management System
QTF	Quality Task Force
R&R	Revise & Re-submit
RAC	Rail Activation Committee
RAMP	Real Estate Acquisition and Relocation Management Plan
RCMP	Risk and Contingency Management Plan
RCP	Reinforced Concrete Pipe
RE	Resident Engineer
READ	Real Estate Acquisition Database
RFC	Request for Change
RFI	Request for Information
RFID	Requests for Interface Data
RFMP	Rail Fleet Management Plan
RFP	Request for Proposals
RFQ	Request for Qualifications
ROC	Rail Operations Center
ROD	Record of Decision
ROE	Right of Entry
ROW	Right-of-Way
RR	Risk Register
RSD	Revenue Service Date
RTM	Requirements Traceability Matrix
RTSA	Regional Transit Stabilization Agreement
S1	Segment 1
SAIS	Supplemental Archaeological Inventory Survey
SCADA	Supervisory Control and Data Acquisition
SCAP	Stream Channel Alteration Permit
SCC	Standard Cost Category
SHPD	State Historic Preservation Division
SIC	Sandwich Isle Communications
SIT	System Integration Testing
SLAN	Station Local Area Network
SOG	Slab on Grade
SOI	Secretary of the Interior
SOW	Scope of Work
SP	Special Provisions
SQP	Supplemental Quality Plan
SSC	Safety Security Certification
SSCP	Safety and Security Certification Plan
SSCWG	Safety and Security Certification Working Group
SSI	Sensitive Security Information
SSMP	Safety and Security Management Plan
SSRC	Safety and Security Review Committee
SSSP	Site Safety Security Plan
STCC	Specification/Testing Conform Checklists
SWPPP	Storm Water Pollution Prevention Plan
T&M	Time and Material
TCCR	Train Control and Communications Room

TCP	Traffic Control Plan
TCS	Train Control System
TES	Traction Electrification System
TIGER	Transportation Investment Generating Economic Recovery
TOC	The Outdoor Circle
TOD	Transit-Oriented Development
TPO	Thermoplastic Olefin
TPSS	Traction Power Sub-Station
TSA	Transportation Security Administration
TSI	Transportation Safety Institute
TVA	Threat & Vulnerability Assessments
TVM	Ticket Vending Machine
TWF	Train Wash Facility
UCA	Utility Construction Agreement
UFRCRA	Utility Facilities Relocation and Cost Reimbursement Agreement
UH	University of Hawaiʻi
UHWO	University of Hawaiʻi West Oʻahu
UL	Underwriters Laboratories
UPS	Uninterrupted Power Supply
USACE	U.S. Army Corps of Engineers
USDOT	U.S. Department of Transportation
VE	Value Engineering
VRCS	Voice Radio Communication System
VRF	Variable Refrigerant Flow
WA	Work Area
WHS	Waipahu High School
WL	West Loch
WOEDA	West Oahu Economic Development Association
WOFH	West Oʻahu/Farrington Highway
WOSG	West Oʻahu Station Group
WSS	West Side Stations
WSSG	West Side Station Group
WTB	Wheel Truing Building
WYL	West Yard Lead
YCB	Yard Control Bungalow
YOE	Year of Expenditure

PROJECT MAP
LEGEND
HRTP Guideway
HRTP Station
Park and Ride Access Ramps
Park and Ride
Maintenance and Storage Facility (MSF)
Pearl Highlands
Leeward Community College
Waipahu Transit Center
Pearlridge
West Loch
Aloha Stadium
Ho'opili
UH West O'ahu
Pearl Harbor Naval Base
East Kapolei
Middle Street Transit Center
Honolulu International Airport
Lagoon Drive
Kalihi
Kapalama
Iwilei
Chinatown
Downtown
Civic Center
Kaka'ako
Ala Moana Center
PACIFIC OCEAN

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 increased. Please see pages 16-17.

Project Funding

- The General Excise Tax (GET) amount received has increased. Please see pages 18-19.
- The Section 5309 New Starts Revenue amount received has increased. Please see pages 18-19.
- The total amount of cash received has increased. Please see pages 18-19.

Schedule

- The Full Revenue Service Date has shifted to a later date. Please see pages 21-23.
- Based on the uncertainty related to the GET extension and availability of funds during the month of December, the City Center Guideway and Stations project's request for proposal was postponed at least one month until early February. This action, along with the transfer of scope from the Dillingham Blvd. Utilities Contract (due to cancellation) and new scope mandated by the 138 kV circuits undergrounding going into the CCGS contract, there will be a direct effect on the RSD forecast which will push into 2022. HART will attempt to mitigate this delay through future mitigation measures taken with the CCGS contractor and/or the Core Systems Contractor. Please see page 21.
- The Master Project Schedule Summary will now reflect the new contract packaging plan forecasts. Please see pages 21-23.

Contracts in Procurement

- HART awarded the Independent Financial Auditor "II" Contract. Please see page 26.
- The deadline has been extended for the priority listed offerors to submit their proposals for the Airport Guideway and Stations Design-Build RFP. Please see page 26.

Contract Status

- Core Systems Contract
  - The current contract value has increased. Please see page 27.

- West O'ahu Farrington Highway Guideway (WOFH)
  - The projected substantial completion date has shifted to a later date. Please see page 34.
  - The current contract value has increased. Please see page 34.
  - The percentage complete has been adjusted. Please see page 34.
  - The Earned Value percentage decreased due to the total contract, including executed change orders, amount increasing. Please see page 35.

- Maintenance and Storage Facility (MSF)
  - The current contract value has increased. Please see page 42.

- Airport Section Utilities
  - The contract substantial completion date has shifted to a later date. Please see pages 56-57.
  - The original contract and current contract values have been corrected. Please see page 56.

- Airport Section Guideway Seven Pier Construction
  - The current contract value has decreased. Please see page 58.

- Airport Station Group
  - The schedule has been removed from the contract page, as station construction will be under the Airport Guideway and Stations contract scope. Please see page 61.

- Dillingham and Kakaʻako Station Group
  - The percent complete has been adjusted. Please see page 64.
  - The schedule has been removed from the contract page, as station construction will be under the City Center Guideway and Stations contract scope. Please see page 65.

Risk Management

- The total number of risks in the risk register has decreased. Please see pages 85, 96-99, and 125.

Community Outreach

- The amount of presentations, events, and Neighborhood Board meetings have been differentiated between those which occurred before the formation of the transit authority and those since its formation. Please see page 99.

Staffing

- The actual number of employees has decreased. Please see page 102.

Appendix D. Procurement and Contract Status

- The contract substantial completion date for Airport Section Utilities Construction has shifted to a later date due to a change order. Please see page 119.
- The 'Dillingham Utilities and Roadway' procurement has been removed and replaced with the following: The work contemplated under Dillingham Utilities and Roadway will be provided in separate parts by the City Center Guideway and Stations contractor and the On-Call Construction contractor. The On-Call Construction contractor will do the preparatory work required for utilities relocation as right-of-way becomes available, and the City Center Guideway and Stations contractor will construct the remaining utility relocations and roadway work as a part of its design-build contract. Please see page 120.
- The On-Call Construction Contract "III," and Complex Real Property Negotiations and Litigation Support Contract have been added to the Remaining Contracts table. Please see page 120.
- The dates listed for the "RFP Part 2 Proposals Due" and "Issue NTP" columns have been updated for the Airport Guideway and Stations, City Center Guideway and Stations, Fare Systems Contract and Independent Financial Auditor "II" Contract. Please see page 120.

1 EXECUTIVE SUMMARY

KEY ACTIVITIES THIS MONTH

Project Overview

In February, the Honolulu Authority for Rapid Transportation (HART) held a ground breaking ceremony in Waipahu to signal the commencement of construction on West Loch Station and Waipahu Transit Center Station – the first two rail stations that will be built for the project.

Mayor Signs Rail Tax Extension

Mayor Kirk Caldwell signed Bill 23 – which extends the half-percent rail tax for an additional five years – into law on Feb. 1, 2016.

The Mayor's signature follows the Honolulu City Council's approval of the extension in January 2016. The general excise tax surcharge will now be collected through the end of 2027 and will allow HART to complete construction of the rail transit project.

Cost:

Project Costs Summary Through Jan. 29, 2016		
	Current Budget ($M)	Incurred To Date ($M)
Project Budget	$4,461.2	$1,920.2
Project Contingency	$487.4	$0.6
Finance Charges*	$173.1	$0.0
TOTAL	**$5,121.7**	**$1,920.8**

* $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 Jan. 29, 2016				
	Actual		Early Plan	Late Plan
Overall Project Progress	43.7%		74.3%	67.1%
Overall Construction Progress	35.8%		68.4%	59.9%
Overall Design Progress	88.2%		99.8%	99.3%
Overall Utilities Progress	41.1%		92.2%	87.8%

*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. With the City Council decision on Jan. 27, 2016 and the Mayor's signature on Feb. 1, 2016, HART will revise these charts to reflect the new budget and schedules.

Overview:

Core Systems Contract (CSC)

The CSC contractor (AHJV) is continuing to progress through Final Design. Qualification and design verification tests are ongoing. Construction interface with the MSF contractor (KKJV) is ongoing. AHJV completed construction of the Yard Control Bungalow (YCB) and is starting to install and test equipment. AHJV continues to install fire detection equipment at the MSF Operations and Servicing Building (OSB) and the Maintenance of Way (MOW) building. AHJV continues to pull Communications cables in the MSF OSB and MOW buildings. MOW vehicles have been delivered and are being tested at the MSF. Final Assembly activities are ongoing for the first four passenger cars. (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 contractors for FHSG, WOSG and KHSG must provide an acceptable schedule in order for the manufacturing of the equipment to be released. (See Section 4.1.B for details)

West O'ahu Farrington Highway (WOFH) Contract

The most recent progress schedule, through December 2015, reflects more than six month delay to the contractual substantial completion date specific to the LCC portables, parking lot, and access structure construction work activities. This schedule has not yet been accepted by HART and is under review. HART continues to monitor KIWC production rates as it relates to potential schedule impacts, and both parties continue to work together to mitigate the impacts to the critical path activities associated with the LCC construction work. A revised baseline schedule was submitted via a contract Request for Change (RFC) by KIWC in August 2015 and is under review. (See Section 4.2.A for details)

Maintenance and Storage Facility (MSF) Contract

Preparation for rail passenger car delivery, anticipated in March 2016, continues. CSC has taken over care, custody and control of Phases 2, 3 and 4 yard track areas. Coordination is ongoing with the abutting WOFH mainline contractor for completion of site access in the east and west yards, including rail, vehicular access, and utility connections. Startup testing of the HVAC system is complete in the Operations and Servicing Building (OSB) and Maintenance of Way (MOW); conditioned spaces have been achieved. Grading and paving continue for portions of Driveway 'A', 'B' and 'C.' Building finishes and mechanical, electrical and plumbing installations continue for all the buildings. Installation of roofing and Direct Fixation Track installation continues for the Train Wash Facility (TWF). Installation of rail continues for the ready tracks north of the TWF. (See Section 4.2.D for details)

Kamehameha Highway Guideway (KHG) Contract

Per KIWC's progress schedule, as submitted with the application for payment, the contract is twelve months behind schedule. KIWC submitted a revised baseline schedule which is progressed monthly and submitted with the progress payment in accordance with the KHG contractual requirement. The most recent progress schedule, through December 2015, reflects more than 12 months delay to the contractual substantial completion, with the guideway structure completion in April 2017 and the remaining roadway civil work being completed by September 2017. This schedule has not yet been accepted by HART and is under review. HART continues to monitor KIWC production rates as it relates to potential schedule impacts and both parties continue to work together to mitigate the impacts to the critical path activities. A revised baseline schedule was submitted via a contract Request for Change (RFC) by KIWC in September 2015 and is under review. (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. Probing along the proposed shaft locations has been conducted incidental to removing abandoned utilities which has resulted in the discovery of additional conflicts. Those unforeseen wet and dry utilities that have been encountered along Kamehameha Highway, which will directly impact the follow on guideway contract, are being mitigated; RFI's have been prepared and answered and Requests for Proposals have been generated, necessary change orders and/or directives are being prepared or issued which will mitigate these conflicts. Nan continues to progress on utility relocation along Kamehameha Highway. (See Section 4.4.B for details)

Board Meeting Q&A:

Listed below are questions raised by community members at the February 18, 2016 HART Board meeting:

- **Question:** Can HART separate the total number of presentations, events and Neighborhood Board meetings in which the rail project's outreach team has participated between those which occurred before the formation of the transit authority and those since its formation?

  Answer: Yes, HART will differentiate between the two. Please see Section 6.7 for the separation of these categories.

- **Question:** Why is the Chief Financial Officer (CFO) position open only to City employees?

  Answer: The Chief Financial Officer position is not open to only City employees, but is open to all persons who meet the qualifications for the position. HART's Chief Financial Officer, once hired, will be an employee of the City and County of Honolulu, or a City employee.

- **Question:** Can the data dates for the information in the Monthly Progress Report end on the last day of the month?

  Answer: The majority of the information in the Monthly Progress Report is as of the end of the current month. However, some information, such as cost, schedule, right-of-way, and safety and security have differing data dates due to their respective reporting cycles. Areas in the report which have a data date differing from the end of the current month are notated with their respective data dates.

- **Question:** Why is the physical construction completion always greater than the billed to date amount?

  Answer: Physical completion is calculated by actual construction placement in the field at the time of the survey, while billed to date amounts are calculated percentages of work done in arrears. As the contractor bills for work completed for the past month, and on-site construction has already progressed, there is 1 to 2 months of work difference between the two calculations, with billed amounts always lagging behind actual, physical construction.

2 OVERALL PROJECT PROGRESS AND FINANCIALS

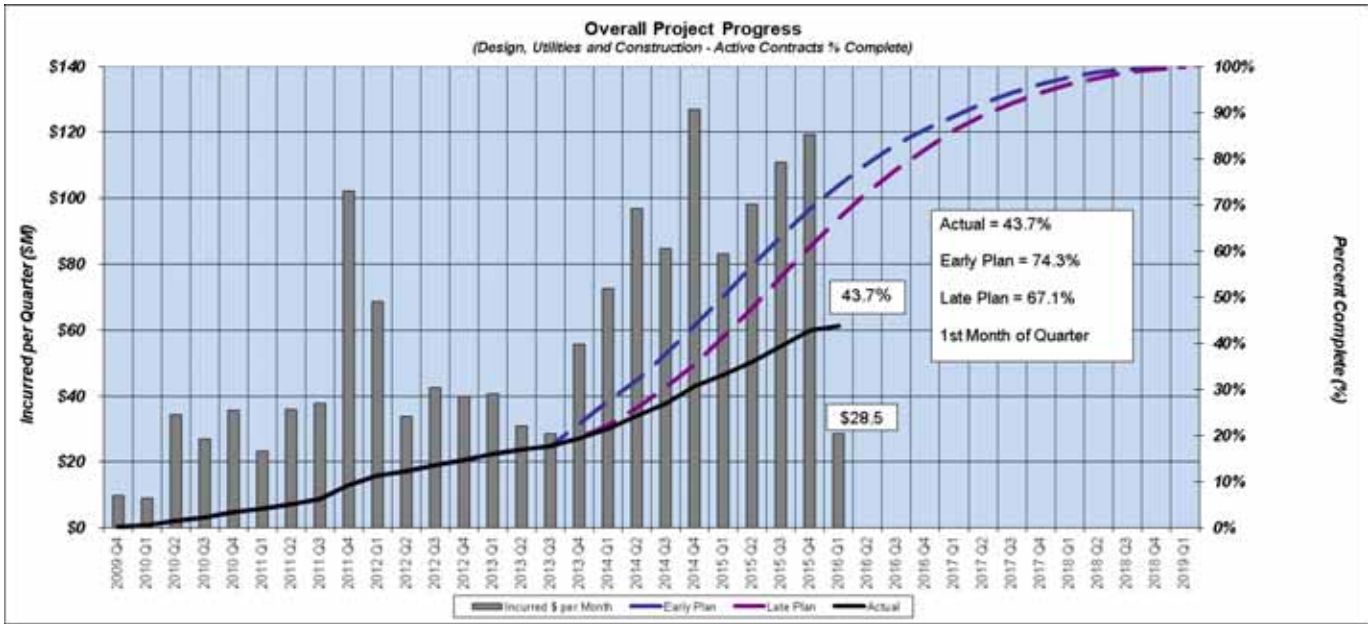
2.1 Project Progress (data as of Jan. 29, 2016)

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. With the City Council decision on Jan. 27, 2016 and the Mayor's signature on Feb. 1, 2016, HART will revise these charts to reflect the new budget and schedules.

Note:

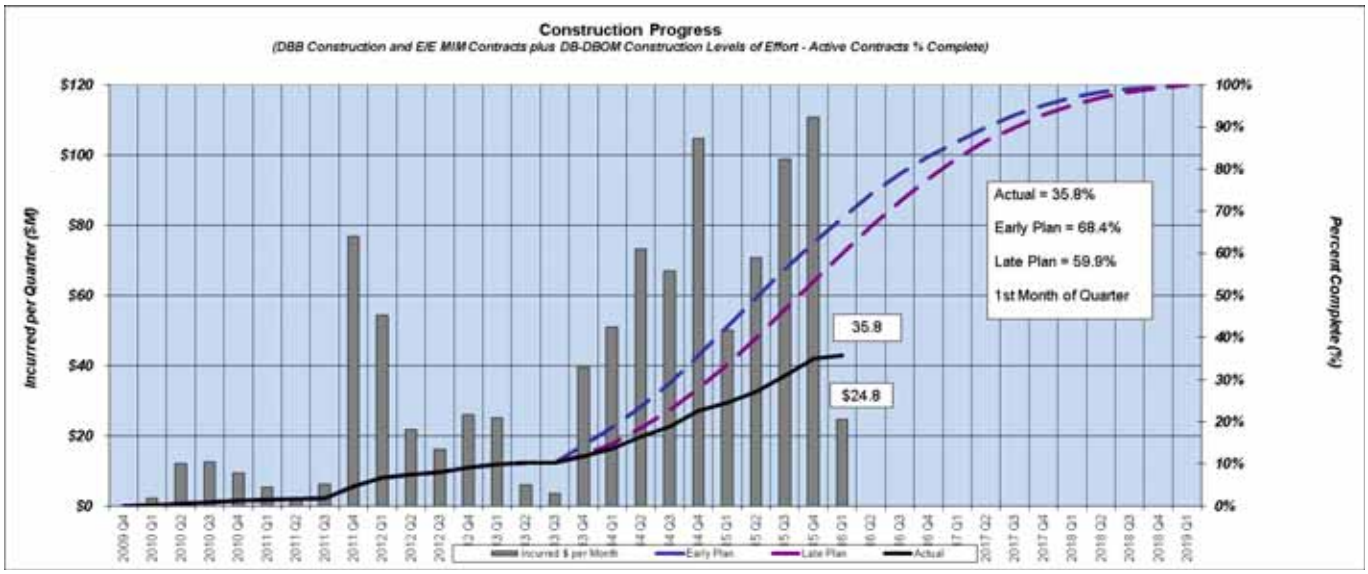
- Actual = Actual cost of work performed, based on invoiced-to-date amount.
- Early Plan = Earliest dates activities can begin and finish, based on logic and durations used in the schedule.
- Late Plan = Latest dates activities can begin and finish and not have an impact on completion date, based on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

Figure 1. Overall Project Progress (% Complete)



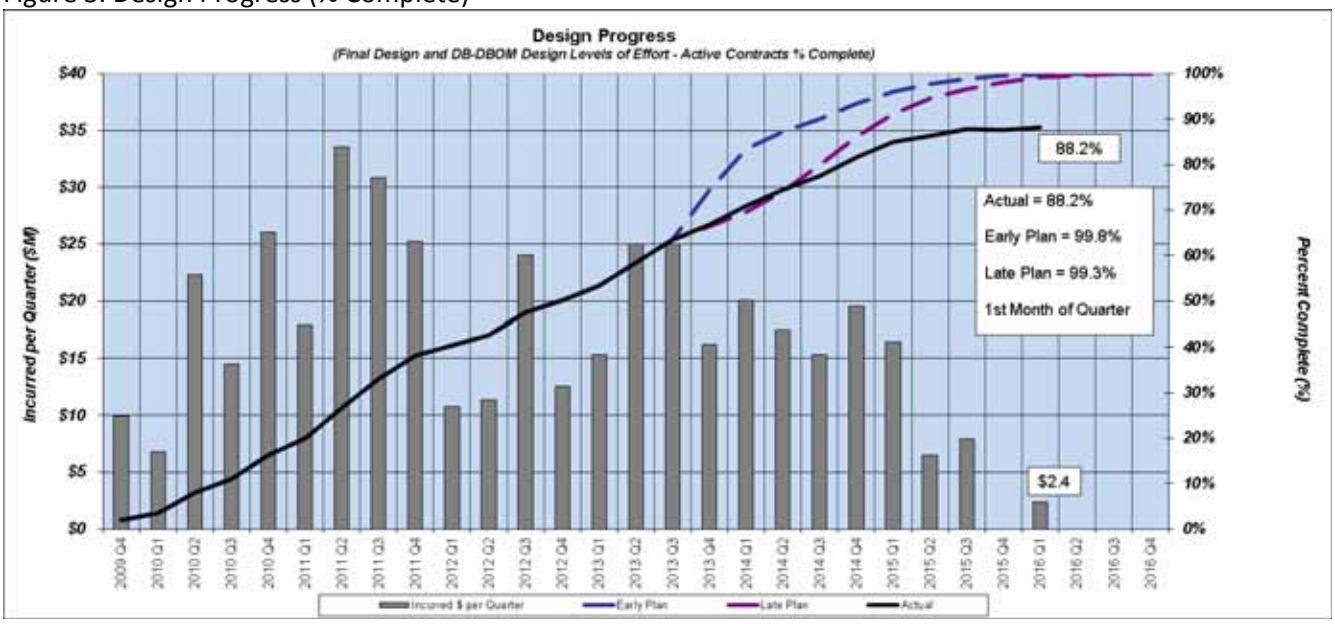
At present "overall" project progress is based on the weighted value progress of the individual construction and design contracts (Design-Build [DB], Design-Bid-Build [DBB], Design-Build-Operate-Maintain [DBOM], Elevator/Escalator Manufacture-Install-Test-Maintain [MIM], Final Design [FD] and DB-DBOM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



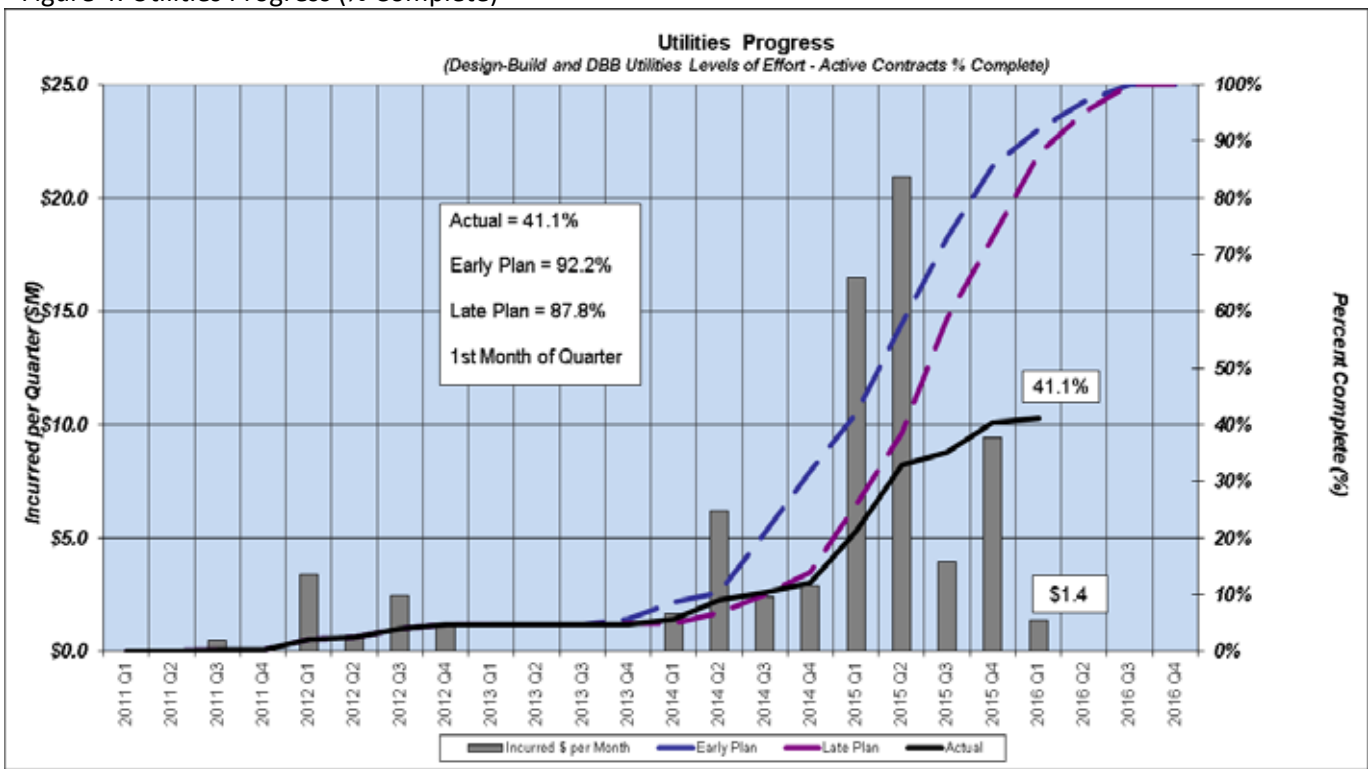
Overall construction progress is based on the weighted average progress of the individual DBB and E/E MIM construction contracts and the DB-DBOM construction levels of effort, not including consultant construction engineering and inspection (CE&I) services.

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 Jan. 29, 2016)

Total Incurred Cost = $1,920.8M
(previous report = $1,883.9M)

- FFGA Project Budget = **$5,121.7M**
  - Current Project Budget - $4,461.2M
  - Current Project Contingency - $487.4M
  - Project Finance Charges - $173.1M

- Total Incurred Cost = **$1,920.8M** (43.1% of current project budget)
  - January 2016 Incurred Cost = $36.9M

2.3 Project Contingency (data as of Jan. 29, 2016)

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

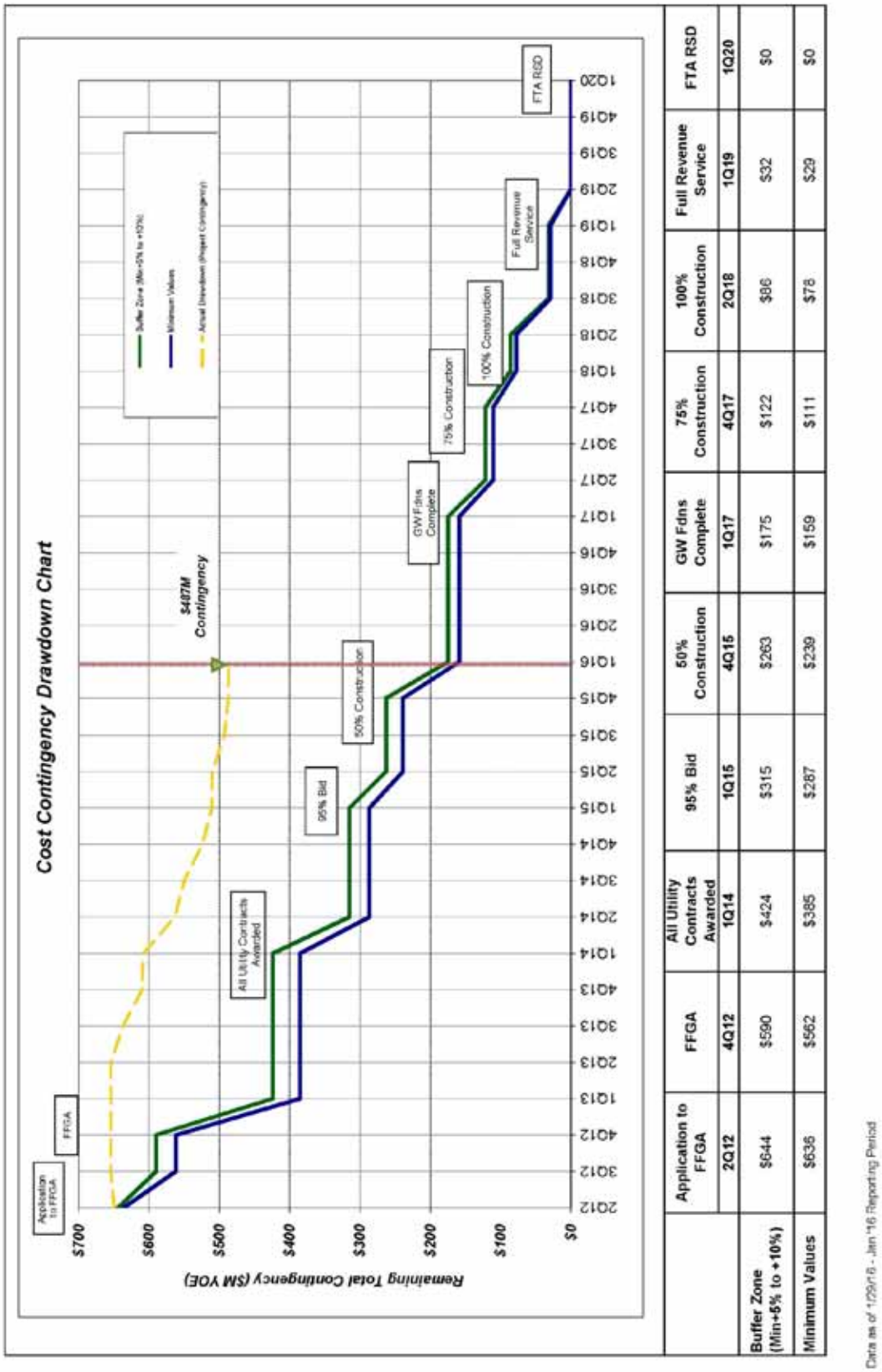
Current Contingency Balance = $487.4M
(previous report = $487.3M)

- Current Project Contingency Balance = **$487.4M**
  - Contingency drawdown to date – $156.2M (24.3% of baseline project contingency budget)
  - $0.1M contingency credit during January 2016. 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 November 2015 Report	90.01 - 90.03	($154.6)
Contingency drawdown December 2015 Report	90.01 - 90.03	($0.8)
Contingency drawdown January 2016 Report	90.01 - 90.03	($0.9)
Contingency drawdown February 2016 Report	90.01 - 90.03	$0.1
Contingency drawdown to date	90.01 - 90.03	($156.2)
Current FFGA Project Contingency	***90.01 - 90.03***	***$487.4***

Figure 6. Draft Cost Contingency Drawdown Chart



	Application to FFGA	FFGA	All Utility Contracts Awarded	95% Bid	50% Construction	GW Fdns Complete	75% Construction	100% Construction	Full Revenue Service	FTA RSD
	2Q12	4Q12	1Q14	1Q15	4Q15	1Q17	4Q17	2Q18	1Q19	1Q20
Buffer Zone (Min+5% to +10%)	$644	$590	$424	$315	$263	$175	$122	$86	$32	$0
Minimum Values	$636	$562	$385	$287	$239	$159	$111	$78	$29	$0

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 Jan. 29, 2016)

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**	503	**503**
FTA Section 5307 Formula Funds [5]	*0*	**210**	0	**0**
ARRA Funds	*0*	**4**	4	**4**
Net General Excise Tax (GET) Surcharge revenues FY2010-FY2022 [5]	*378*	**3,291**	1259	**1,637**
Total	***385***	**5,356**	**2,066**	**2,153**

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

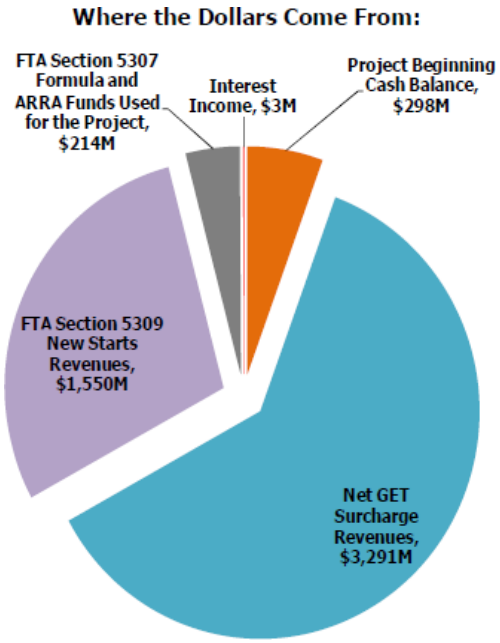
[2] FFGA Financial Plan, Table A-1 *Capital Plan Cash Flows* .

[3] Beginning Project Cash Balance at Entry into Preliminary Engineering (PE) on October 16, 2009 (the FFGA Project start date) = Pre-PE GET,

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

[5] On January 27, 2016 the City Council of Honolulu passed Bill 23 which extended the GET surcharge to December 31, 2027. The Planned amounts for funding will be adjusted in a future Monthly Progress Report to reflect the extension of the GET surcharge.

Figure 8. Project Funding Sources (YOE $M)



Source: FFGA Financial Plan, p. 2-1

- General Excise Tax (GET) Surcharge (data as of Jan. 29, 2016)
  - $1,259M = amount received since the Project's entry into FTA's Preliminary Engineering phase of project development.
    - $1,299M = Projected Net GET Surcharge Revenue for FYs 2010-3Q 2016, as stated in FFGA Financial Plan (Table A-1 *Capital Plan Cash Flows*)
    - GET receipts are currently running 3% short of Projections to date, or $40M behind.
  - $51M = GET surcharge received in January 2016.

Total Cash Received Since PE = $2,066M
(previous report = $2,001M)

GET Received Since PE = $1,259M
(previous report = $1,208M)

GET Received Since 2007 = $1,637M
(previous report = $1,586M)

- Full Funding Grant Agreement (FFGA)
  - $13.6M = New Starts drawdown processed and received in January 2016.

- 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.

Figure 9. New Starts Drawdown by Federal Fiscal Year (data date as of Jan. 29, 2016)

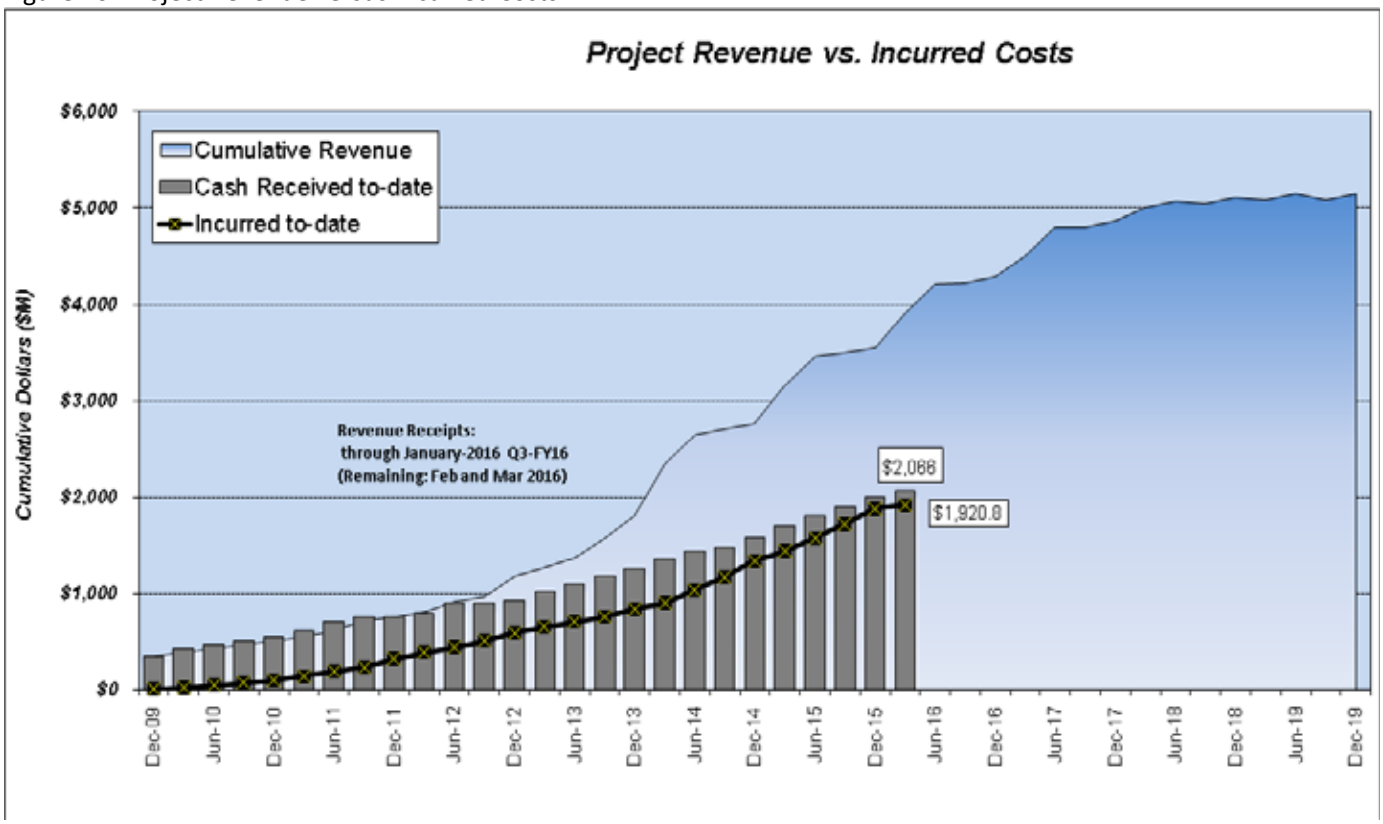
1/29/2016 BALANCES				
New Starts Grant Information by Federal Fiscal Year (Amounts in italics are pending)				
Federal Fiscal Year Allocation	FTA Obligated Amounts	Actual Drawdown Amounts to Date	Available Balance	FFGA Base Case Cash flow
2008	$15,190,000	$15,190,000	$0	
2009	$19,800,000	$19,800,000	$0	
2010	$30,000,000	$30,000,000	$0	
2011	$55,000,000	$55,000,000	$0	$20,607,242
2012	$200,000,000	$200,000,000	$0	$99,382,758
2013	$236,277,358	$182,854,811	$53,422,547	$258,280,277
2014	$250,000,000	$0	$250,000,000	$441,719,724
2015 (pending award of grant)	*$250,000,000*	$0	*$250,000,000*	$250,000,000
2016 (pending appropriation and award of grant)	*$250,000,000*	$0	*$250,000,000*	$250,000,000
2017 (pending appropriation and award of grant)	*$243,732,642*	$0	*$243,732,642*	$230,010,000
Total	**$1,550,000,000**	**$502,844,811**	**$1,047,155,189**	**$1,550,000,000**

2.5 Project Revenue and Costs

(data as of Jan. 29, 2016)

Ending Cash Balance 1/31/16 = $215.0M
(previous report = $198.1M)

Figure 10. Project Revenue versus Incurred Costs



Planned Funding levels as per the June 2012 FFGA Finance Plan
Data date for Revenue & Incurred Cost =Jan. 29, 2016

Figure 11. Cash Balance Summary

JANUARY 2016 CASH BALANCE SUMMARY		
	JANUARY	FY16 YTD Cumulative
Beginning Cash Balance 12/01/15	198,109,931	293,010,823
Expenditures:		
Operating Expenditures	(1,328,994)	(9,195,124)
Capital Expenditures	(46,718,199)	(328,902,672)
Expenditures Total:	(48,047,193)	(338,097,796)
Receipts:		
GET Surcharge	51,223,701	168,374,947
FTA Drawdown	13,562,958	91,338,180
Interest	13,687	128,733
Other (rental, refunds, copy fees, etc.)	166,734	274,931
Receipts Total:	64,967,080	260,116,791
Ending Cash Balance 01/31/16	**215,029,818**	**215,029,818**

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

3 SCHEDULE

(data as of Jan. 29, 2016)

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. Based on the uncertainty related to the GET extension and availability of funds during the month of December, the City Center Guideway and Stations project's request for proposal was postponed at least one month until early February. This action, along with the transfer of scope from the Dillingham Blvd. Utilities Contract (due to cancellation) and new scope mandated by the 138 kV circuits undergrounding going into the CCGS contract, there will be a direct effect on the RSD forecast which will push into 2022. HART will attempt to mitigate this delay through future mitigation measures taken with the CCGS contractor and/or the Core Systems Contractor.

- The City Council and the Mayor of Honolulu have agreed to extend the GET for five more years. The Master Project Schedule Summary will now reflect the new contract packaging plan forecasts.

- 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 Highlands Garage, Transit Center and Ramp H2R1 Design-Build Contract is being readied for issuance for bid in the second half of 2016. A tentative schedule has now been included in the MPSS. Schedule dates are subject to change.

- Ramp H2R2 (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

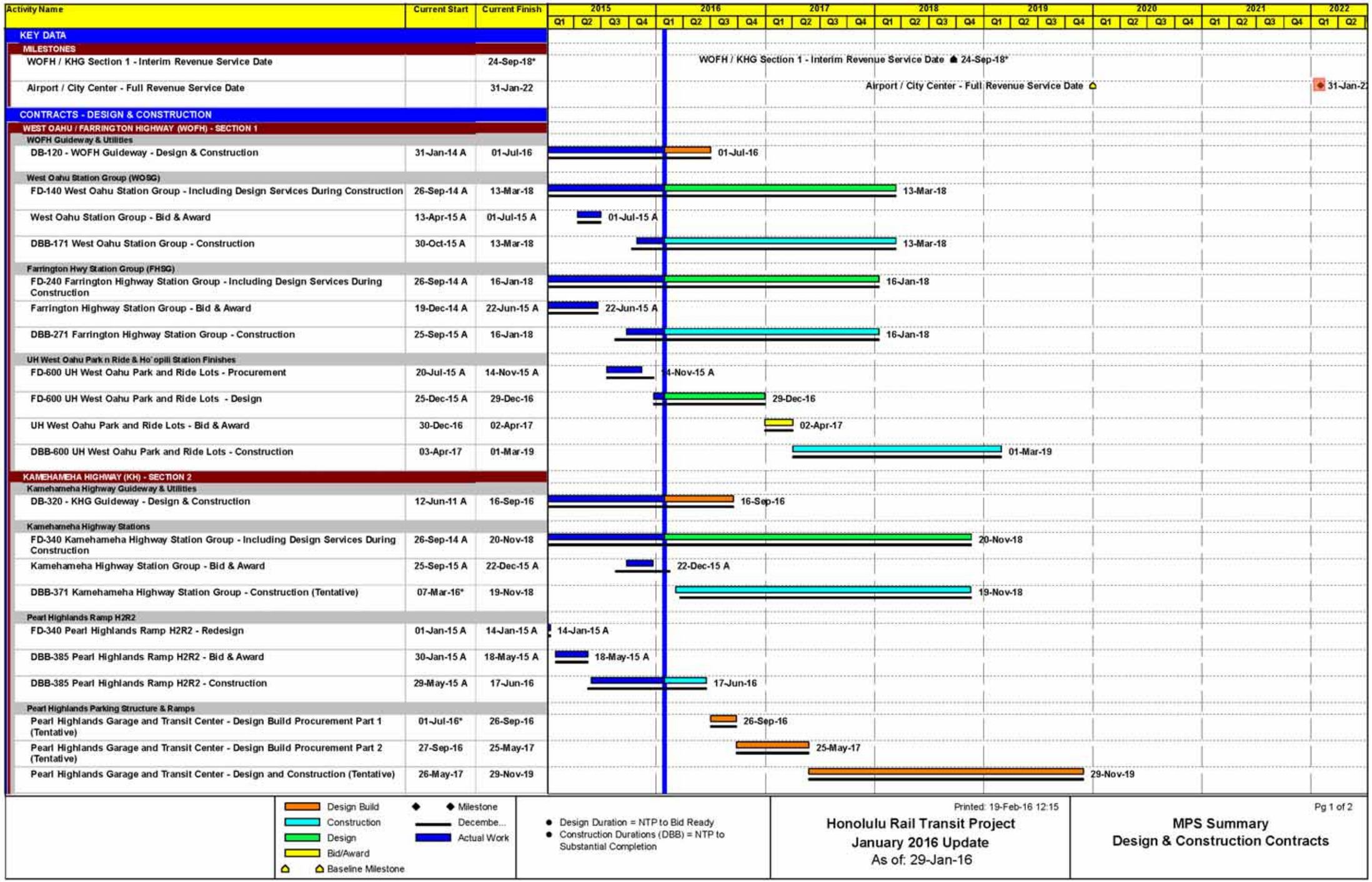
- WOFH construction progress is behind the approved schedule for the LCC station area civil and structural work by approximately 6 months.

- KHG guideway construction progress is behind the approved schedule by approximately twelve months.

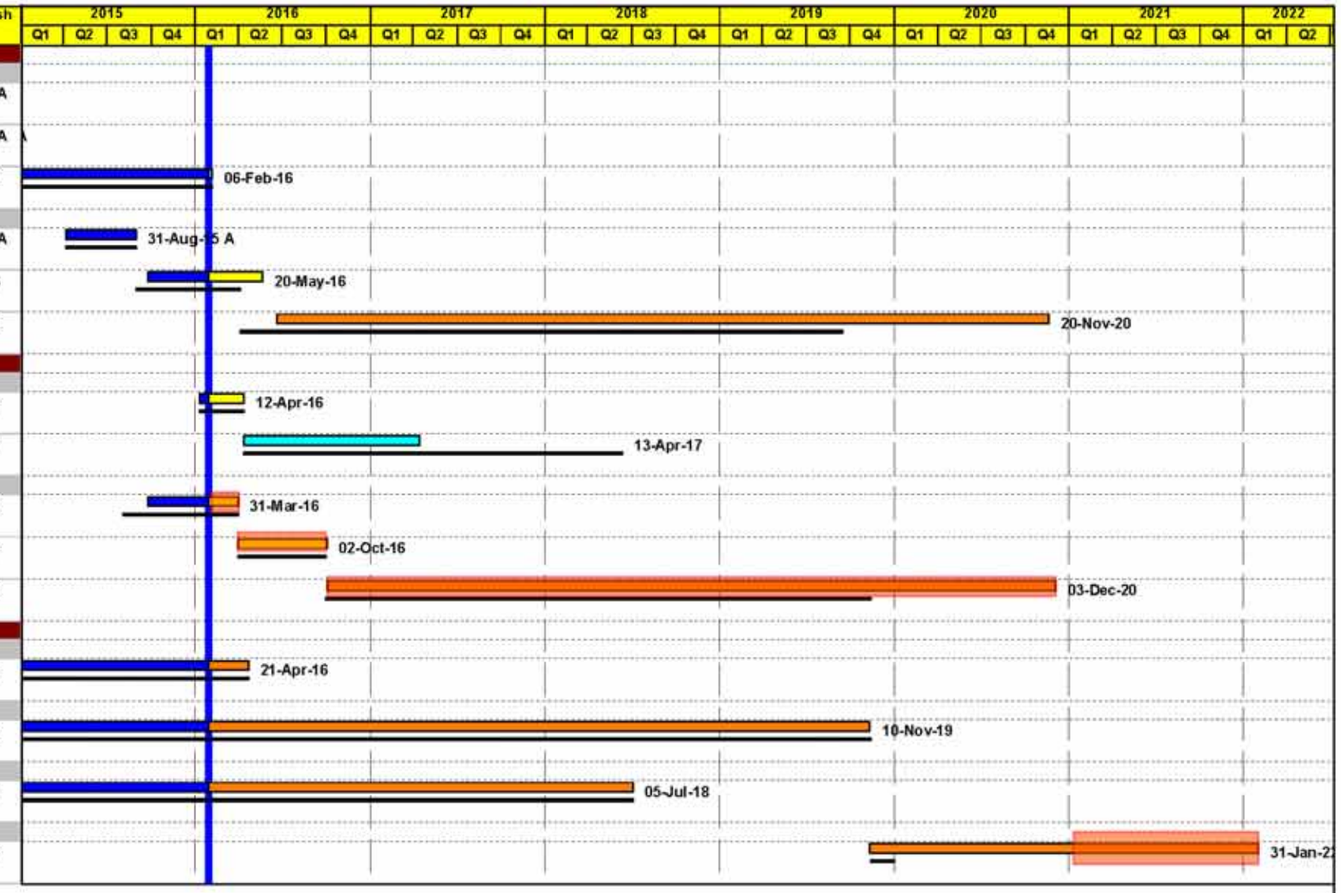
- Right-of-way acquisition, third-party interface and utility relocations continue to be areas of concern for program completion.

Figure 12. HRTP 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).



Activity Name	Current Start	Current Finish
AIRPORT - SECTION 3		
Airport Utility Relocation		
FD-430 - Airport Utilities - Design	05-Jan-12 A	16-Dec-13 A
Airport Utilities - Bid & Award	17-Dec-13 A	30-Jun-14 A
DBB-505 - Airport Utilities - Construction	26-Sep-14 A	06-Feb-16
Airport Guideway & Stations (AGS)		
Airport Guideway & Stations - Design Build Procurement Part 1	07-Apr-15 A	31-Aug-15 A
Airport Guideway & Stations - Design Build Procurement Part 2	25-Sep-15 A	20-May-16
DB-450 Airport Guideway & Stations - Design & Construction	20-Jun-16	20-Nov-20
CITY CENTER - SECTION 4		
Dillingham Utilities and Road Widening		
Dillingham Utilities - Bid & Award (On-Call Scope)	11-Jan-16 A	12-Apr-16
DBB-510 Dillingham Utilities - Construction (On-Call Scope - Duration To Be Determined)	13-Apr-16	13-Apr-17
City Center Guideway & Stations (CCGS)		
City Center Guideway & Stations - Design Build Procurement Part 1	25-Sep-15 A	31-Mar-16
City Center Guideway & Stations - Design Build Procurement Part 2	01-Apr-16	02-Oct-16
DB-550 City Center Guideway & Stations - Construction	03-Oct-16	03-Dec-20
PROJECT WIDE - ALL SECTIONS		
Maintenance & Storage Facility (MSF)		
DB-200 - MSF - Design & Construction (Design-Build)	31-Jan-14 A	21-Apr-16
Core Systems		
DBOM-920 - Core Systems - Design & Construction	31-Jan-14 A	10-Nov-19
Elevators & Escalators		
MI-930 - Elevators and Escalators - Design, Manufacture, Install, & Test	31-Jan-14 A	05-Jul-18
Final Testing and Commissioning		
Final Testing and Commissioning	11-Nov-19	31-Jan-22



PROGRAM CRITICAL PATH

Design Build
Construction
Design
Bid/Award
Baseline Milestone
Milestone
Decembe...
Actual Work

- Design Duration = NTP to Bid Ready
- Construction Durations (DBB) = NTP to Substantial Completion

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Honolulu Rail Transit Project
January 2016 Update
As of: 29-Jan-16

Pg 2 of 2

MPS Summary
Design & Construction Contracts

4 CONTRACT STATUS

Core Systems Contract (Section 4.1.A)

OVERVIEW

- Vehicle Aluminum Car Shell Manufacturing continues to move forward in Reggio Calabria, Italy. The seventh and eighth car shells have been delivered to the Final Assembly facility.
- Final Assembly of Train 1 is ongoing with the installation of ceiling and side-wall interior panels, door operators, doors, cabling, raceway, underfloor, interior and rooftop equipment.
- Progressing with sub-system testing and design verification activities.
- Yard Control Bungalow construction is complete.
- Traction Power Cable installation continues; termination of traction power cable in the storage area of the MSF Phase 2 is complete. Phase 3 and 4 are ongoing.
- Testing of traction electrification system (TES) cables at the MSF Phase 2 is ongoing.
- MOW vehicle delivery (MPV, MPV Trailer, and Car Mover) – On Feb. 8, 2016, three (3) MOW vehicles were delivered.
- Installation of Train Control devices at the MSF (junction boxes and coupling units) has commenced.

KEY ISSUES

- Revisions to the station and guideway Construction Access Milestone (CAM) dates require coordination for interfacing work.
- Vehicle Production and Testing is an ongoing monitored risk. Final Assembly of the first train is experiencing inefficiencies due to equipment delivery/availability issues. The first two truck frame and bolster assemblies have been delivered to the Final Assembly facility in Pittsburg, CA. The fabrication of the balance of the first Truck Frame and Bolster assemblies continues to be impacted by an extended subcontractor learning curve. AHJV/HRI has stationed truck fabrication experts at the Truck and Bolster fabricator, DRS, to assist with issue resolution. HART and the CSC are addressing existing issues and will continue to work together to identify and respond to issues as they arise.

Fare Collection System (Section 4.1.C)

OVERVIEW

- Fare Systems Technical Consultant Contract awarded to CH2M Hill on Sept. 24, 2015, for a term of five years.
- Proposals for the Fare Systems Contract were received on Nov. 13, 2015 and a Priority Offerors List of the top three Offerors was developed. Clarification discussions took place mid-January 2016. Best and Final Offer (BAFO) documents were issued to Priority-Listed Offerors (PLOs) at the end of January 2016. BAFO submissions were received at the end of February 2016. Award is anticipated in mid-March 2016.

KEY ISSUES

- Completing legal review of Memorandum of Understanding (MOU) for Operations and Maintenance (O&M) cost sharing between HART and the City.
- Determining the best value proposal for HART and the City for the Fare System.

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

OVERVIEW

- Leeward Community College (LCC) Portables, Parking Lot and Station Access Structure Change Order – HART and KIWC continue discussions on the scope and costs associated with the construction of the LCC Portables, Parking Lot and Station Access changes. The change order for this work was presented to the Board in February and was approved for processing.
- 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 Pier 256. All segments for Pier Table 253, 254 and 255 have been completed.
- Span by Span Advancement – Heading #2, west of Waipahu High School, Work Area 4, is currently progressing westbound. Eastbound spans have been erected by West Loch Station and are proceeding towards Waipahu Transit Center Station. Span erection and stressing work will be completed on the project by March 2016.

- Construction Completion Milestones – In February, KIWC completed the construction of all drilled shafts, columns, cast all segments in the casting yard, and completed shaft and guideway conflict relocations on the WOFH project. Segment erection, track construction, and third rail work are still ongoing.

KEY ISSUES

- LCC Portables, Parking Lot and Station Access Structure Change Order (for additional detail, see 4.2.A Key Issues)
- Construction Production/Baseline Schedule (for additional detail, see 4.2.A Key Issues)
- Night Noise Variance (for additional detail, see 4.2.A Key Issues)
- HDOT Roadway Restoration Issues (for additional detail, see 4.2.A Key Issues)
- Intersection Closure for Span by Span (for additional detail, see 4.2.A Key Issues)
- Closeout and Coordination (for additional detail, see 4.2.A Key Issues)

Maintenance and Storage Facility (Section 4.2.D)

OVERVIEW

- Turnover of care, custody, and control of track areas designated as Phases 2, 3 and 4 have been given to CSC.
- HVAC startup is complete in the OSB and MOW. Mechanical and electrical installations as well as building finishes continue.
- Roofing completed for the Train Wash Facility (TWF). Installation of Direct Fixation Track within the building is underway.
- Traction power, signal, and train control conduit installation continues in the yard.
- Installation of rail is continuing for the tracks north of the Train Wash Facility and the East Yard Lead and West Yard Lead tracks.
- Storage and Maintenance Tracks have been inspected and released to CSC for Train Control and Traction Power.

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.
- Provision of a suitable work area for assembly of the train sets following site delivery.
- Establish telephone service, as necessary, for building occupancy (elevator and fire alarm).

Kamehameha Highway Guideway (Section 4.3.A)

OVERVIEW

- Construction of Drilled Shafts – KIWC currently has 4 drill spreads working on the alignment. Approximately 64% of the KHG shafts have been completed.
- Utility Relocation – 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 requested work – KIWC has been issued RFCRs to incorporate HDOT's requested work 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 preparing for negotiation. The remainder of the HDOT additional work requests are still pending receipt of cost proposals from KIWC.
- Balanced Cantilever System (BCS) – KIWC completed the Column 307 pier table bottom slab. Column 306 has completed stem walls, diaphragms, and top deck placed and transversely post-tensioned. Column 308 has begun construction.
- Span-by-span – KIWC continues Heading 3 span-by-span erection from the west end of the project limits and has passed Acacia Road.

KEY ISSUES

- Night Noise Variance (for additional detail, see 4.3.A Key Issues)
- HDOT requested work (for additional detail, see 4.3.A Key Issues)
- Third Party Utility Impacts (for additional detail, see 4.3.A Key Issues)
- KIWC Resource Allocations (for additional detail, see 4.3.A Key Issues)
- Kohomua Septic Tank (for additional detail, see 4.3.A Key Issues

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

OVERVIEW

- The contractual Substantial Completion date has been extended to March 7, 2016. There will be no impact to the Airport Segment Guideway and Stations contract.

KEY ISSUES

- Resolving RFI's and changes, including any delay claims.
- Amendments to the current approved Noise Mitigation plan are being prepared to allow Nan to utilize the equipment at night to complete the work needed.
- A traffic maintenance plan that allows for a reversible lane during contraflow operations has been approved. Principle parts of the plan included 2 east bound lanes in the AM hours and 2 westbound lanes in the PM hours, with a goal of allowing lane closures for 8 hours a day. Implementation has been gradual over several weeks so that impacts can be mitigated with various strategies such as the use of special duty officers at key intersections. By increasing the time that work can be conducted, HART and the contractor can achieve two benefits: a reduction in overall contract time, and a reduction in steel plates on the road as the longer time will allow the contractor to backfill and pave more areas as they are progressing rather than waiting until the following day.

Contracts in Procurement

OVERVIEW

- Awarded Contracts:
  - On Feb. 18, 2016, HART awarded the Independent Financial Auditor "II" Contract to KMH LLP.

- Active Procurements:
  - Art-in-Transit: HART is in negotiations or will commence negotiations with the highest-ranked artists for each of the stations. HART has begun award of the Art-in-Transit contracts.
  - Airport Guideway and Stations Design-Build RFP: HART extended the deadline for the priority listed offerors to submit their proposals from Feb. 23, 2016 to March 22, 2016.
  - City Center Guideway and Stations (CCGS) Design-Build RFP: RFP Part 2 was issued on Feb. 2, 2016.
  - Fare Systems Contract RFP: Offerors submitted their Best and final offers (BAFO) on Feb. 26, 2016, in accordance with the current procurement schedule.

- Upcoming Procurements:
  - Procurements for UH West Oʻahu Temporary Park and Ride and UH West Oʻahu Campus Road "B" Design-Bid-Build Contract, Pearl Highlands Garage, Transit Center and Ramp H2R1 Design-Build Contract , On-Call Construction Contractor "III" Contract, Real Estate Acquisition "II" Contract, Litigation Services for Eminent Domain Contract, Land Court Petition Services Contract, and On-Call Appraiser Contracts are under evaluation.

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 Ansaldo Honolulu Joint Venture (AHJV) is continuing to progress through Final Design. AHJV is a joint venture between Ansaldo STS and Hitachi Rail Italy. Qualification and design verification tests are ongoing. Construction interface with the MSF contractor (KKJV) is ongoing. AHJV completed construction of the Yard Control Bungalow (YCB) and is starting to install and test equipment. AHJV continues to progress installation of fire detection equipment at the MSF Operations and Servicing Building (OSB) and the Maintenance of Way (MOW) building. AHJV continues to pull Communications cables in the MSF OSB and MOW buildings. MOW vehicles have been delivered and are being tested at the MSF. Final Assembly activities are ongoing for the first four passenger cars.

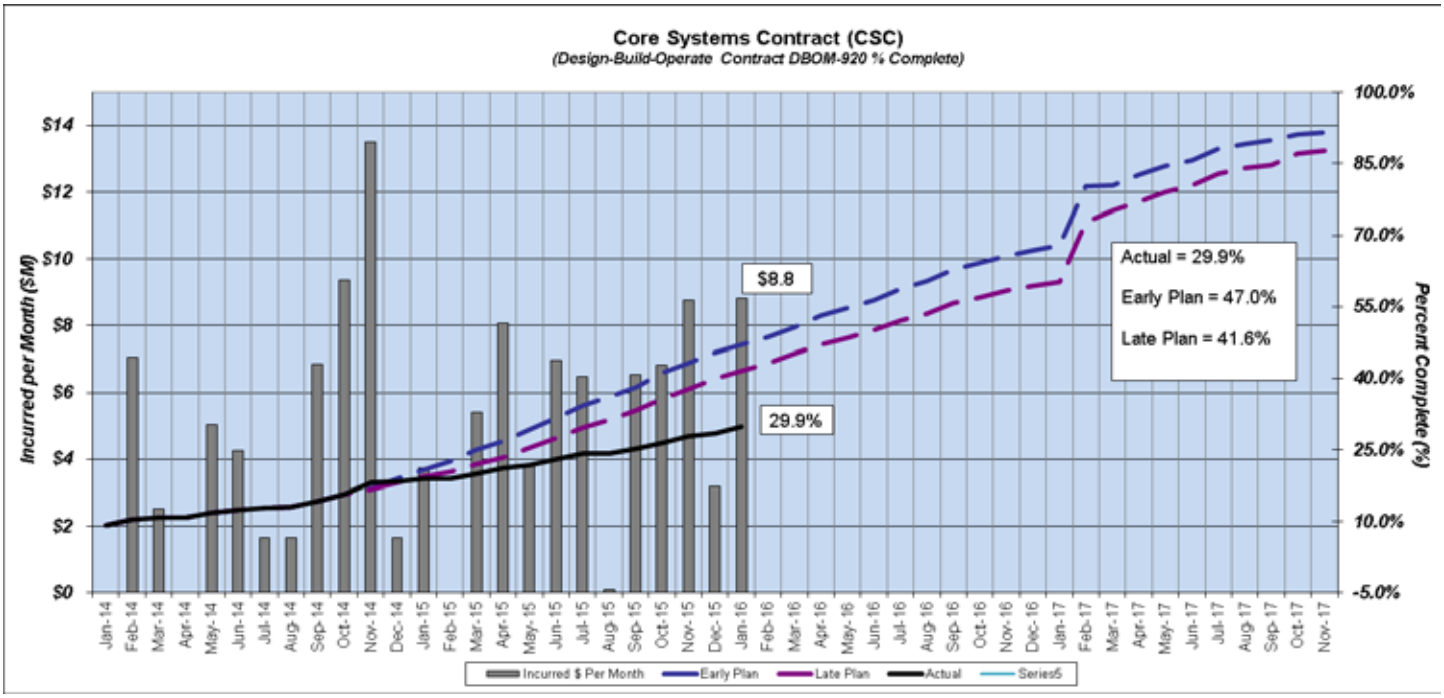
COST INFORMATION:

Original Contract:	$573,782,793	Incurred-to-Date:	$177,772,782
Current Contract Value[1]:	$599,101,187	Incurred in January:	$8,816,390

[1] *Current Contract Value = Original contract value (excluding $823.6M O&M budget) + executed Change Orders*

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

January Change Orders		
Change No.	Description	Amount ($)
0020	Airport City Center Alignment	$490,000
0021	FOC Pearlridge to DTS Patch Panel	$47,500
	Cumulative to Date	**$25,318,394**



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

SCHEDULE:

	Interim Design Submitted Documents	Final Design Submitted Documents	Target Completion Date
Passenger Vehicles	100%	81%	1st Q 2016
Communications	100%	45%	4th Q 2016
ATC/SCADA	100%	99%	1st Q 2016
TES	100%	100%	Completed
Fire Detection	100%	58%	1st Q 2016
PSG, UPS, MOW, YCB	N/A	78%	1st Q 2016

CRITICAL PATH SUMMARY:

- Continue to oversee construction activities with the MSF contractor, the CSC installation subcontractor and the On-Call contractor.
- Passenger Vehicle final assembly continues cabling and equipment installation work, installation of the ceiling and side-wall interior panels in preparation for installation of seats and handrails.
- Due to the modified CAM dates, the equipment installation at Pearl Highlands and Pearlridge Stations is driving the critical path.

WORK PROGRESS:

Activities this Month:

Earned Value: 29% [(Total Achieved to January 2016 ($168.96 million) + Projected February 2016 Period ($4.4 million))/Total Contract Including Executed Change Orders ($598.5 million)].

Design:

- ATC/SCADA – Documents Received: 7, Documents Returned: 19.
- Communications – Documents Received: 23, Documents Returned: 14.
- Traction Power – Documents Received: 4, Documents Returned: 4.
- Fire Detection – Documents Received: 6, Documents Returned: 0.
- Platform Screen Gates – Documents Received: 0, Returned: 3.
- Passenger Vehicles – Documents Received: 9, Documents Returned: 18.

Manufacturing:

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

Look Ahead:

Design:

- Continue Final Design of all subsystems.

Manufacturing:

- Passenger Vehicle Manufacturing – Continue car shell assembly.
- Continue installation of underfloor, interior and roof-top equipment, install interior ceiling and side-wall lining panels, and commence installation of seats in the first train.
- Car Shell 9 is being prepared for the carbody structural test.
- Continue manufacturing of automated train control, traction power, and other systems equipment.

MSF:

- Continue construction of the foundations and conduits for Communication Interface Cabinets at the MSF yard.

Activities this Month (continued):

- Performed final assembly oversight work at Pittsburg, CA. Equipment installation work on the first train is ongoing.
- Performed Truck Frame and Bolster Production oversight at Hitachi Rail Italy (HRI) supplier, DRS, in West Plains, Missouri.
- Car Shell 7 and 8 are in transit to Pittsburg, CA.

MSF:

- MOW vehicles (MPV, MPV trailer, and Car Mover) were delivered, assembled, and statically tested.
- Yard Control Bungalow - Installation of lighting and HVAC unit are completed.
- Construction of foundations for the Closed Circuit Television Cameras poles at the MSF perimeter is 50% complete.
- Foundation work for 16 Communication Interface Cabinets (CIC) in the yard is ongoing. 10 are completed and 6 are ongoing.
- Installation of Train Control devices (O-Bond and S-Bond) in Phase 2 are complete.
- Preparation of TPSS for HECO Energization is complete.
- Procurement in preparation for installation of COMMS cabling in MSF OSB and MOW is ongoing.

Look Ahead (continued):

- Continue installation of Train Control and COMMs cables in the track areas.
- Test Fire Detection Alarm System (FDAS) devices in the MSF OSB and MOW.
- Yard conduit installation: On-Call contractor installation of yard conduit extensions for Phase 1 and 5.
- Dynamic testing of MOW vehicles.
- Energization of the YCB scheduled for early March.
- Energization of the MSF Yard TPSS scheduled for early March.
- Installation of the Fiber Optic Backbone in the MSF Yard.

KEY ISSUES:

- Revisions to the station and guideway Construction Access Milestone (CAM) dates require evaluation of interfacing work schedules.
- Vehicle Production and Testing is an ongoing monitored risk. HART and CSC are working closely to ensure successful delivery of the first train to Honolulu and completion of the static and dynamic testing of the vehicle.
- Communications System design completion is delayed. HART is working closely with AHJV to identify key issues and a corrective action plan to bring design and qualification testing to closure.

QUALITY MANAGEMENT:

- Overall quality of the contract is good.
- HART QA is currently reviewing revised Quality Assurance Plans (QAP) including Implementing Procedures (IP) of AHJV, ASTS (Hitachi), Hitachi Rail Italy and Hitachi Rail USA.

Testing		
Subsystem	Test Completed	Date Completed
Vehicles	MOW vehicle static test	Feb. 12, 2016

Passenger Vehicle – Oversight		
Facility	Activity	Date Completed
Pittsburg, CA	On-site inspector in place to oversee and report on Hitachi Rail Final Assembly activities. Equipment installation work is ongoing on the first train. Seventh and eighth car shells are on-site.	Ongoing

CSC NCR Log			
	TOTAL	CLOSED	OPEN
AHJV & Subs	26	23	3
Hitachi Rail	358	281	77
TOTAL	**384**	**304**	**80**

- Hitachi Rail Italy had previously generated NCRs for each aluminum car shell element with manufacturing issues found during car shell production; primarily at the subassembly supplier (CMC). Corrective actions have been taken for future production, and adjustments are being made to current assembled parts.
- Hitachi Rail Italy Supplier, DRS, has generated NCRs for the Truck and Bolster weldment assemblies. These NCRs are being addressed by DRS in coordination with Hitachi Rail Italy.
- Hitachi Rail USA has generated NCRs for various final assembly issues. These NCRs are being addressed by Hitachi Rail USA in coordination with Hitachi Rail Italy.

PROJECT PICTURES:

MOW vehicle in transit from M7 to M1 at MSF.

Preparing MOW vehicle for static testing at MSF.

Interior panel installation at Hitachi Rail USA – Final Assembly in Pittsburg, CA.

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.

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.

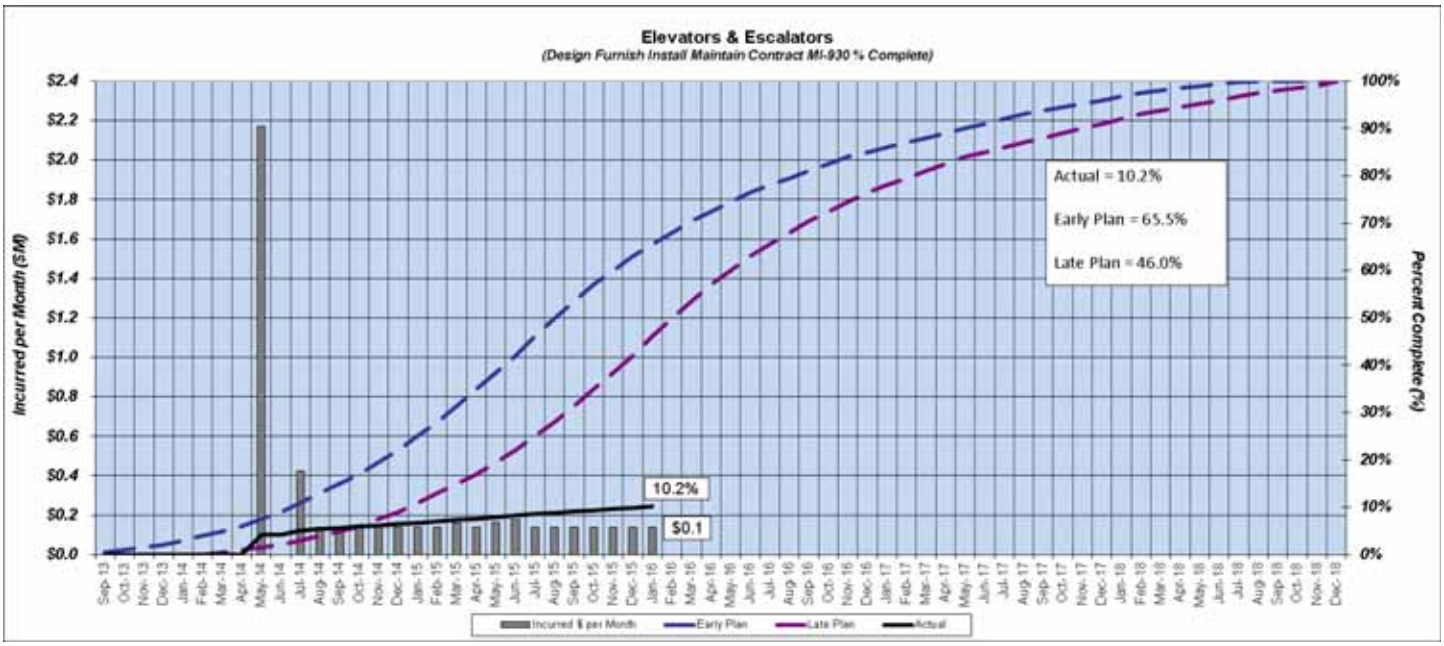
COST INFORMATION:

Original Contract:	$50,982,714	Incurred-to-Date:	$5,207,281
Current Contract Value[1]:	$50,982,714	Incurred in January:	$140,825

[1]*Current Contract Value = Original contract value with Design Allowance + executed Change Orders*

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

January Change Orders		
Change No.	Description	Amount ($)
None	---	---
	Cumulative to Date	**$0**

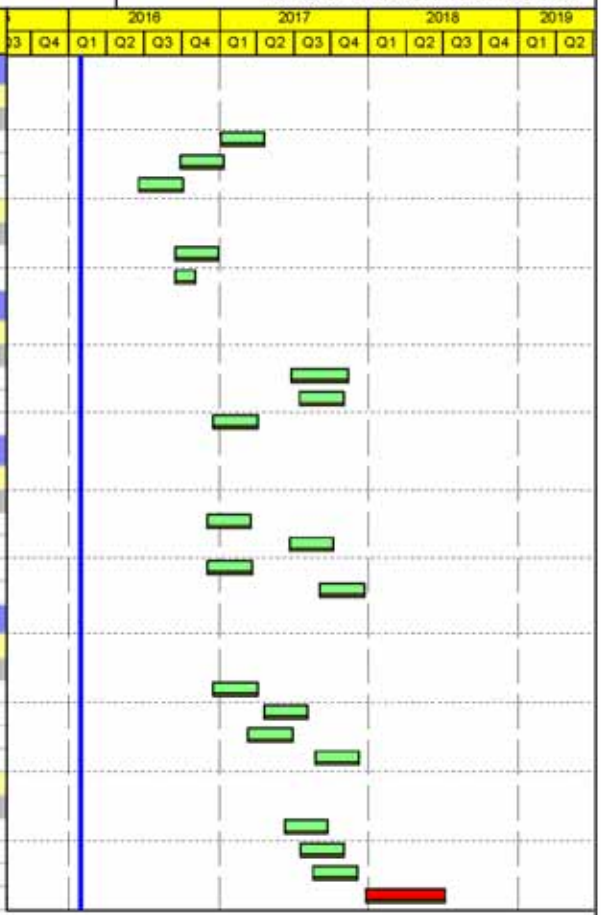


The progress chart reflects early program expectations. When the overall schedule is rebaselined and Construction Access Milestone dates are revised, the cost curve will be revised.

SCHEDULE:

January 2016 Update — Data Date: 29-Jan-16, Printed On: 09-Feb-16

Activity Name	Start	Finish
W. Oahu/Farrington Highway (WOFH) - Section 1	18-Jun-16	19-Apr-17
W. Oahu Station Group	18-Jun-16	19-Apr-17
Construction - W. Oahu Station Group	18-Jun-16	19-Apr-17
East Kapolei Station E&E Installation	06-Jan-17	19-Apr-17
UH West Oahu Station E&E Installation	28-Sep-16	11-Jan-17
Ho'opili Station E&E Installation	18-Jun-16	05-Oct-16
Farrington Highway Station Group	14-Sep-16	28-Dec-16
Construction - Farrington Highway Station Group	14-Sep-16	28-Dec-16
West Loch Station E&E Installation	14-Sep-16	28-Dec-16
Waipahu Transit Station E&E Installation	14-Sep-16	04-Nov-16
Kamehameha Highway (KH) - Section 2	16-Dec-16	11-Nov-17
Kamehameha Highway Station Group	16-Dec-16	11-Nov-17
Construction - Kamehameha Highway Station Group	16-Dec-16	11-Nov-17
Pearl Highlands Station E&E Installation	24-Jun-17	11-Nov-17
Pearl Ridge Station E&E Installation	16-Jul-17	02-Nov-17
Aloha Stadium Station E&E Installation	16-Dec-16	04-Apr-17
Airport - Section 3	02-Dec-16	19-Dec-17
Airport Station Group	02-Dec-16	19-Dec-17
Construction - Airport Station Group	02-Dec-16	19-Dec-17
Pearl Harbor Station E&E Installation	02-Dec-16	18-Mar-17
HNL Airport Station E&E Installation	21-Jun-17	04-Oct-17
Lagoon Drive Station E&E Installation	03-Dec-16	21-Mar-17
Middle Street Station E&E Installation	02-Sep-17	19-Dec-17
City Center (CC) - Section 4	17-Dec-16	07-Jul-18
Dillingham Station Group	17-Dec-16	07-Dec-17
Construction - Dillingham Station Group	17-Dec-16	07-Dec-17
Kalihi Station E&E Installation	17-Dec-16	05-Apr-17
Kapalama Station E&E Installation	20-Apr-17	03-Aug-17
Iwilei Station E&E Installation	11-Mar-17	27-Jun-17
Chinatown Station E&E Installation	23-Aug-17	07-Dec-17
Kaka'ako Station Group	08-Jun-17	07-Jul-18
Construction - Kaka'ako Station Group	08-Jun-17	07-Jul-18
Downtown Station E&E Installation	08-Jun-17	22-Sep-17
Civic Center Station E&E Installation	20-Jul-17	01-Nov-17
Kaka'ako Station E&E Installation	17-Aug-17	02-Dec-17
Ala Moana Center Station E&E Installation	23-Dec-17	07-Jul-18



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: 10.2%; Planned Value: 46%

- 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 is expected to occur in March 2016.

KEY ISSUES:

- The release to allow manufacturing for FHSG and WOSG is expected to occur in March 2016. The release of the equipment required for KHSG will be dependent on the NTP of the KHSG contract. Final completion of the equipment requirements for the four stations included in the DB contract for Airport Guideway and Stations is on hold pending contract award. The eight stations included in the City Center Guideway and Stations contract is also on hold pending contract award of the DB contract for this work. Both of the DB solicitation packages contain the size and configuration of the elevators and escalators purchased for these twelve remaining stations.

C. Fare Collection System

Contract No.: TBD
Contractor: TBD
Contract Start Date: TBD
Contract Substantial Completion: TBD
Projected Substantial Completion: TBD

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

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

Project Overview: The Fare Systems RFP was released on Aug. 11, 2015. As a result of potential Offeror requests, the deadline for proposals was again extended to Nov. 13, 2015. Best and Final Offers (BAFO) were received at the end of February 2016. A recommended best value proposal is anticipated to be selected by the evaluation team by mid-March 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 March 2016. System design anticipated to start in spring 2016.
- Manufacture in second quarter 2017.
- System testing for the back office functions and TheBus anticipated in third quarter 2017.
- Anticipated system pilot launch on TheBus in fourth quarter 2017, with full roll out on TheBus (including all central systems) in first quarter 2018.
- Interim roll out for rail in late 2018.
- Full roll out on rail in 2021.

CRITICAL PATH ISSUES:

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

WORK PROGRESS:

Activities this Month:

- Conducted discussions with PLO.
- Additional reviews with COR on the terms of the Operations and Maintenance MOU.
- Provided technical communiqué to Board on fare systems procurement schedule.

Look Ahead:

- Finalize Fare Systems O&M MOU.
- Review BAFO documents and make a recommendation to Chief Procurement Officer (CPO) on best value offeror.
- Kick off fare modeling work in cooperation with OahuMPO, including completing grant sub-agreement.

KEY ISSUES:

- Completing legal review of MOU for O&M cost sharing between HART and the City.
- Determining the best value proposal for HART and the City for the Fare System.

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: January 2017

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 February, progress continues for span stressing, track installation and road restoration work. 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. The Project's Key Quality Issues continue to focus on segment repairs, span shear keys and column pedestal repairs.

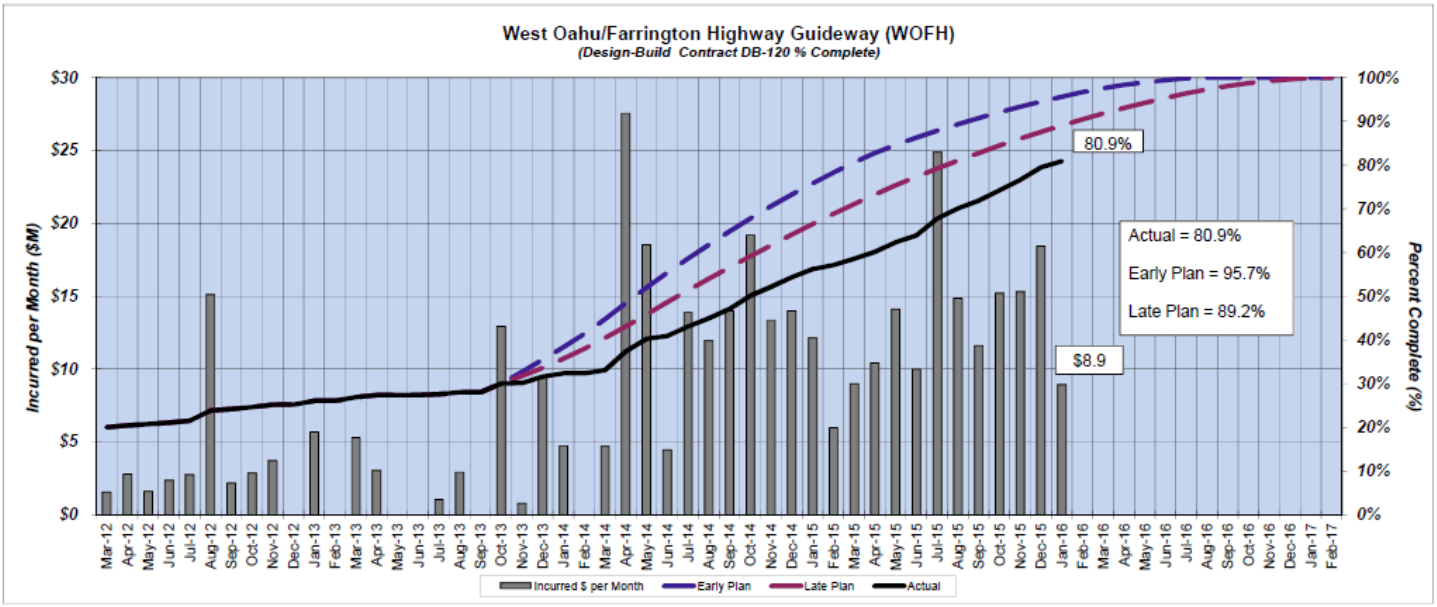
COST INFORMATION:

Original Contract:	$482,924,000	Incurred-to-Date:	$520,950,837
Current Contract Value[1]:	$643,924,758	Incurred in January:	$8,917,900

[1] *Current Contract Value = Original contract value + executed Change Orders*

DBE Participation	
Actual DBE Participation:	$6,812,966
DBE % Attained:	1.41%

January Change Orders		
Change No.	Description	Amount ($)
CCO073	Escalation Due to Schedule Impact Pt 2	$11,750,000
	Cumulative to Date	**$161,000,758**

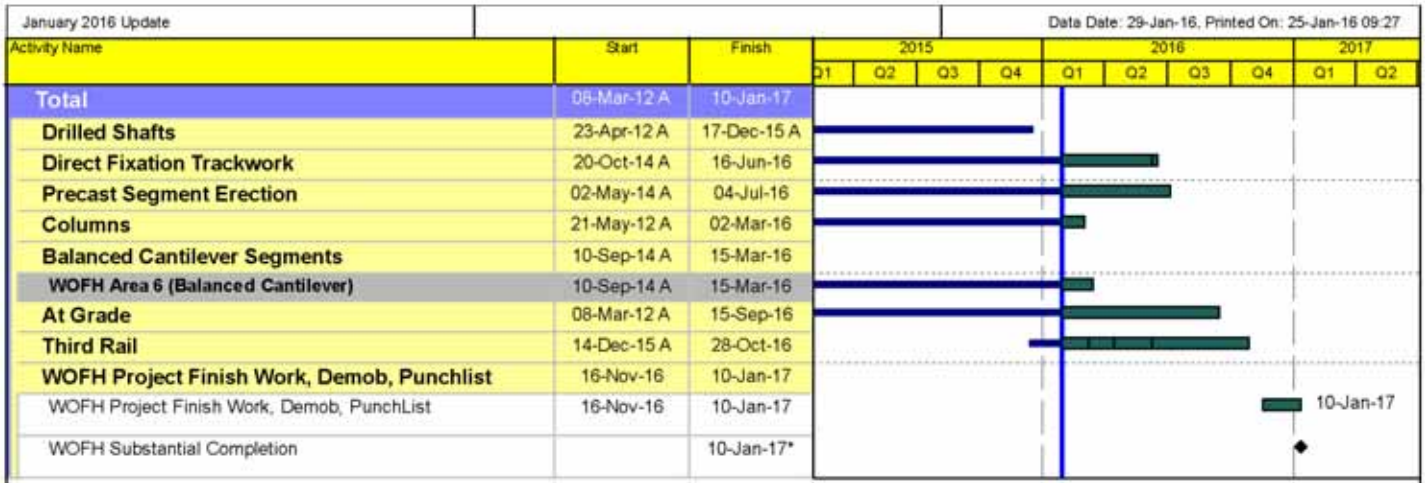


In February, KIWC submitted Pay Application Escalation Invoices #77, 78 and 79 to HART for review. The escalation invoices rejected by HART in January were resubmitted in February. Pay Application #76 for December 2015 billing was resubmitted by KIWC and is currently being reviewed by HART. Retention for all progress above 50% completion will continue to be released on future pay applications.

SCHEDULE:

- KIWC has notified HART that a 6 month time extension beyond substantial completion is needed due to the changes within the LCC work area. HART is reviewing the request and will relay its findings back to KIWC. KIWC has submitted a revised baseline schedule via contract Request for Change (RFC) in August 2015. HART is currently reviewing the contract time extension request for merit while working with KIWC to mitigate any further delays to the contract surrounding the LCC construction work activities.

  On Dec. 10, 2015, KIWC formally notified HART of a unilateral work stoppage of all LCC construction work activities currently being performed by KIWC until the LCC Parking Lot, Portables and Access Structure Construction Change Orders are finalized.



CRITICAL PATH ISSUES:

- Per KIWC, the compounded effects of the delay in execution of the HART/UH/LCC Construction Right-of-Entry (CROE), the lead time for new modular buildings, and delays with the procurement authorization change for new modular buildings continue to drive completion of the project. KIWC proceeded in August 2015 with construction activities including all scope changes. The modular buildings arrived on site in October 2015 and were in the installation phase until December 2015, when KIWC formally notified HART of a unilateral work stoppage of all LCC construction work activities.
- Work at the Balanced Cantilever System (BCS) area has slipped from the October 2014 schedule and is near critical path with minimal total float days available. HART continues to monitor the BCS work closely.

WORK PROGRESS:

WOFH Construction Status as of 2/12/16

Utility Status	Qty to Date	Final Qty	% Complete
Water Line	9,028	9,348	97%
Sewer Line	550	570	96%
Fuel Line	340	340	100%
Gas line	1,591	1,591	100%
Drainage Line	4,191	5,166	81%
Elec/Telecom	16,889	21,374	79%
Street Lights	6,335	8,357	76%
Traffic Sig/ITS Duct bank	8,552	10,802	79%
System Sites	1,683	7,046	24%
ITS Systems Devices	821	4,121	20%

Structure Element	***Total to Date	Planned to Date		Total Qty	% Complete
		Accepted Schedule*	Revised Schedule**		
Shafts	309	309	308	309	100%
Columns	283	278	257	283	100%
Segment Casting	3,209	3,209	3,031	3,209	100%
Spans Stressed	258	256	216	274	94.2%

* Accepted Schedule was submitted in 2013.
** 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.
*** Total quantity for the construction items has been revised to reflect the latest Issued for Construction number of shafts, columns, segments and spans.

Activities this Month:

Earned Value: 82.3% [(Total Achieved to January 2016 ($507.9million) + Projected February 2016 Period ($22.4 million))/Total Contract Including Executed Change Orders ($644 million)]. Planned Value: 90.6%

Look Ahead:

Design Progress

- KIWC continues to work toward completing final design. Additional submittals are expected to be issued for construction, pending coordination with other parties and contracts.

Activities this Month (continued):

Shaft/Column

- Shaft and column construction is now complete.

Guideway Segment Erection

- Eastbound Heading #1 segments were erected from Span 200 through Span 207. Westbound Heading #2 segments were erected from Span 230 through 221.

Utility Relocation

- KIWC continues to relocate third party utilities. All shaft conflict relocation and guideway conflicts have been completed; only station conflicts and traffic signals are outstanding.

Balanced Cantilever Structure

- Cast four segments downstream and three segments upstream at Pier 256.

Track Construction

- KIWC completed thermite welding activities. KIWC is also installing track plates and concrete plinth forms east of East Kapolei Station as well as continuing to lay track between Hoʻopili and West Loch Station.

Precast Yard

- Precast Yard casting of the segments has been completed and segment repair work is ongoing.

KIWC/Third-Party Coordination

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

Civil Structures

- Mechanically Stabilized Earth (MSE) Block Walls A, B, C and D by Pier 251 have been completed. KIWC will continue the installation of reinforcing for walkways and retaining wall footings.

Look Ahead (continued):

Shaft/Column

- Shaft, transition zone and column construction have been completed on the project. KIWC will pour and strip the remaining hammerheads at the station columns.

Guideway Segment Erection

- Segment span erection will continue from Span 221 westbound towards Waipahu Transit Center, and from Span 207 eastbound along Farrington Highway to intersect Heading #2 at Waipahu Transit Center Station. Heading #2 will be stripped and demobilized at Span 219.

Utility Relocation

- Work to relocate the remaining traffic signals along Farrington Highway.

Balanced Cantilever Structure

- Segments will be cast upstream from Pier 256. The Pier 255 and 256 closure pour segment will complete the BCS segments on the project.

Track Construction

- Align and final set of the rail will be performed by Hoʻopili Station. Welding operations will continue at the BCS area. Concrete plinth construction to be installed east of East Kapolei Station.

Precast Yard

- 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 will progress with the fixated slab construction by Pier Slab 251.

KEY ISSUES:

- **Leeward Community College (LCC) Portables and Parking Lot Change Order** – KIWC elected to halt all construction work activities at the LCC Station area until a change order for the work in this area is executed. The LCC Change order was presented to the HART Board in February and received approval for processing.
- **Construction Production/Baseline Schedule** – A re-sequenced October 2014 baseline schedule was submitted to HART in December 2014, reflecting extended construction durations. This revised schedule is being used to track progress against schedule of payment milestones. KIWC submitted an updated schedule in August 2015 via an RFC containing significant changes in durations, logic, as well as activity modifications, which is currently under review by HART.
- **Night Noise Variance** – HART was notified by the Department of Health (DOH) that backhoes and excavators will no longer be allowed for nighttime work due to the contractor's improper use of equipment and receipt of complaints. HART has requested reconsideration on behalf of the contractor and the DOH response is forthcoming.
- **Intersection Closure for Span by Span** – KIWC has successfully completed span erection and post tensioning at multiple intersections. Temporary intersection closures were implemented at the Waipahu Depot intersection through February, to support span operations. The next intersection closure will be by Mokuola intersection. KIWC and HART will continue to evaluate opportunities for minimizing full closures at intersections during span by span operations over intersections along Farrington Highway. In addition, as a requirement for lane closure permits issuance, HART has requested that KIWC perform traffic analysis at intersections to determine the impact of full lane closures on the driving public and nearby businesses.
- **Design Completion Schedule** – As of mid-February, 131 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.
- **Closeout and Coordination** – As the project approaches substantial completion, KIWC has continued coordination with station contractors and HART on project closeout documentation requirements, including as-built drawing reviews and submitting QA-QC final acceptance checklists for review.

- **HDOT Roadway Restoration** – As the project nears completion, KIWC has begun road restoration work on the project including curb and gutter work, roadway subbase installation and mill and overlay. KIWC, HART and HDOT have set up bi-weekly construction coordination meetings to resolve ongoing issues and ensure that the final product for the roadway restoration is acceptable to HDOT. Paving of old Farrington Highway to Leoku Street began at the end of February.

QUALITY MANAGEMENT:

- KIWC continues to follow their established quality processes 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. The Span 17 repair has been completed and this NCR has now been closed.
- **Pre-Cast Segment and Span Erection Progress/Quality** – 147 of the total 516 NCRs (28.5%) 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 27 NCRs have been closed since last month.
- **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.
- **Finishing Work on Construction Items –** KIWC finishing crews have been working together with their quality team at progressing the finishing work on erected segment spans, resolving all outstanding issues, and preparing the final set spans for close out.
- **Span 258 – NCR 509**: a few strands of the 12-Strands Tendon T1L installed on Span 258 failed after post-tensioning. KIWC is preparing a Remediation Plan to replace the failed Tendon T1L. HART and KIWC will perform a postmortem of the Tendon T1L after its removal to determine the root cause of the failure and the corrective action to prevent recurrence.

WOFH NCR Log		
Total NCRs Issued To Date	CLOSED	OPEN
516	480	36

PROJECT PICTURES:

Concrete placement for Span 119 Walkway, WA 1.

Concrete placement at Column 159 Hammerhead, WA 2.

Forming fixated track slab by Pier 251, WA 5.

Temporary shoring at BCS Span 256, WA 6.

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.

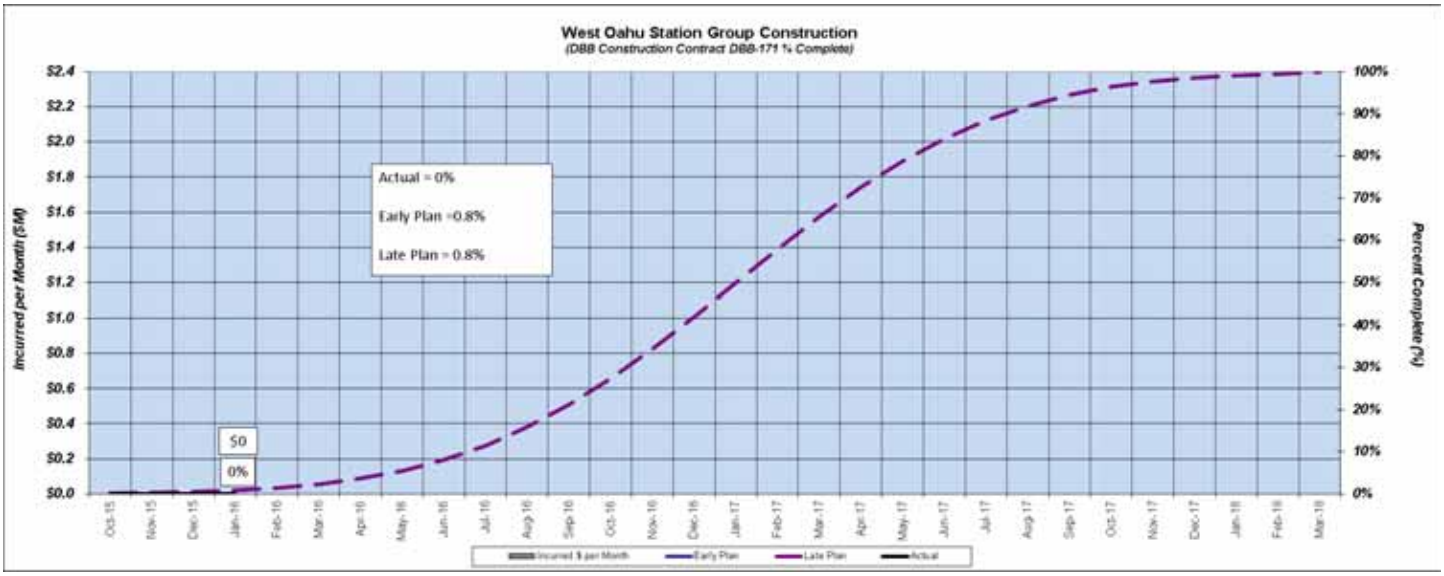
COST INFORMATION:

Original Contract:	$56,088,470	Incurred-to-Date:	$0
Current Contract Value[1]:	$56,088,470	Incurred in January:	$0

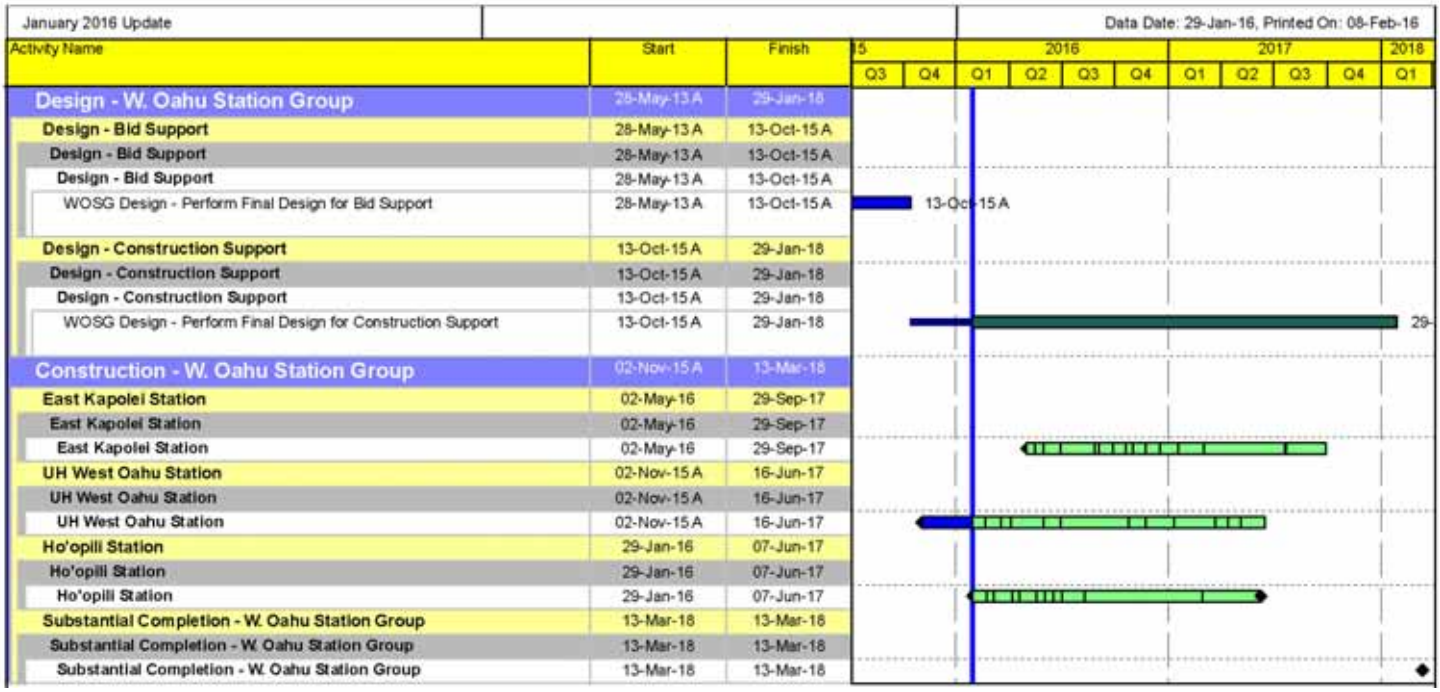
[1]*Current Contract Value = Original contract value + executed Change Orders*

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

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



SCHEDULE:



CRITICAL PATH ISSUES:

- Baseline Schedule approval.
- Review and approval of the contractor's Public Involvement Manager.
- Construction Right of Entry to the Ho'opili property.
- Construction access from Kiewit to the Ho'opili site.

WORK PROGRESS:

Activities this Month:

Earned Value: 0%; **Planned Value:** 0%

- Draft Baseline Schedule revision to be resubmitted. Review comments were provided; contractor to resubmit.
- Ho'opili Right of Entry – Certificate of Insurance revisions were required. Certificate of Insurance will be resubmitted when Nan has complied with the insurance requirements as stated in HART's Construction Right of Entry agreement with D.R. Horton.
- Contractor has received stockpiling permit for their laydown area near the UH West O'ahu Station site.
- Contractor has declined to sign the Change Order to add the Conformed Set. HART is reviewing the necessity to issue a conformed set to the contractor.

Look Ahead:

- Right of Entry documents from Ho'opili.
- Baseline Schedule approval.
- Issue for Construction (IFC) set of plans to be issued to the contractor.

KEY ISSUES:

- Baseline Schedule.
- Right of Entry and construction access to Ho'opili.
- IFC set to be provided to the contractor.

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 80% complete with preconstruction activities. HDCC is working on completing the remaining submittals required prior to commencement of construction. Official ground breaking was held Feb. 25.

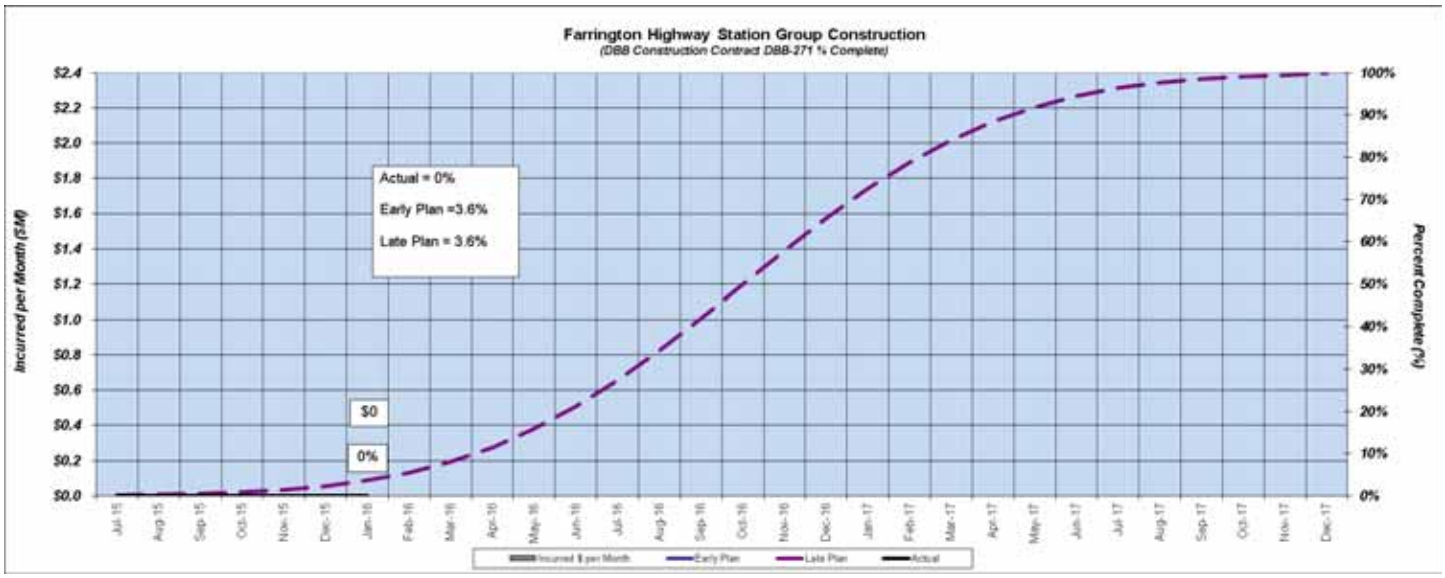
COST INFORMATION:

Original Contract:	$78,999,000	Incurred-to-Date:	$0
Current Contract Value[1]:	$78,999,000	Incurred in January:	$0

[1] *Current Contract Value = Original contract value + executed Change Orders*

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

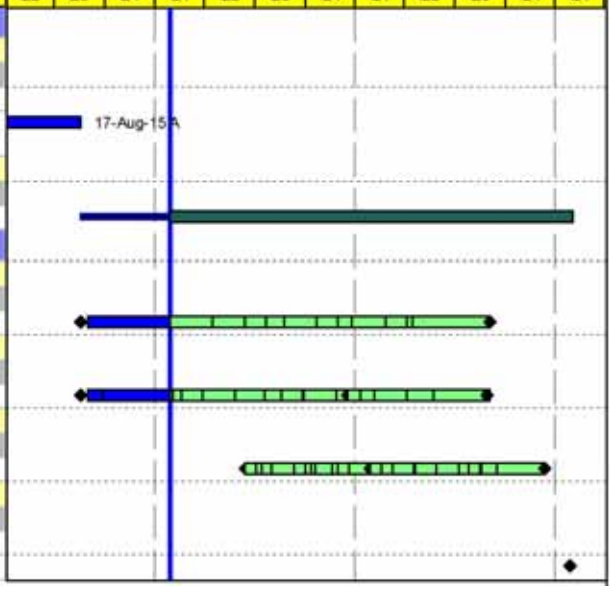
January Change Orders/Amendments		
Change No./Amend	Description	Amount ($)
None	---	---
	Cumulative to Date	**$0**



SCHEDULE:

January 2016 Update — Data Date: 29-Jan-16, Printed On: 08-Feb-16

Activity Name	Start	Finish
Design - Farrington Highway Station Group	28-Jan-13 A	01-Feb-18
Design - Bid Support	28-Jan-13 A	17-Aug-15 A
Design - Bid Support	28-Jan-13 A	17-Aug-15 A
Design - Bid Support	28-Jan-13 A	17-Aug-15 A
FHSG Design - Perform Final Design for Bid	28-Jan-13 A	17-Aug-15 A
Design - Construction Support	17-Aug-15 A	01-Feb-18
Design - Construction Support	17-Aug-15 A	01-Feb-18
Design - Construction Support	17-Aug-15 A	01-Feb-18
Construction - Farrington Highway Station Group	17-Aug-15 A	29-Jan-18
West Loch Station	17-Aug-15 A	04-Sep-17
West Loch Station	17-Aug-15 A	04-Sep-17
West Loch Station	17-Aug-15 A	04-Sep-17
Waipahu Transit Station	17-Aug-15 A	04-Sep-17
Waipahu Transit Station	17-Aug-15 A	04-Sep-17
Waipahu Transit Station	17-Aug-15 A	04-Sep-17
Leeward Community College Station	13-Jun-16	12-Dec-17
Leeward Community College Station	13-Jun-16	12-Dec-17
Leeward Community College Station	13-Jun-16	12-Dec-17
Substantial Completion - Farrington Highway Station Group	29-Jan-18	29-Jan-18
Substantial Completion - Farrington Highway Station Group	29-Jan-18	29-Jan-18
Substantial Completion - Farrington Highway Station Group	29-Jan-18	29-Jan-18
Farrington Highway Station Group Substantial Completion		29-Jan-18



CRITICAL PATH ISSUES:

- NPDES permit was obtained by HDCC on Dec. 3, 2015.The Baseline Schedule has been submitted by HDCC, and is pending HART review and approval.
- Review and approval of contractor's administrative plans and procedures as required by the contract. Environmental Compliance Plan (ECP) approval is pending. Approval of the ECP plan is required prior to start of construction activities.
- Revised plans provided to contractor that include HART requested changes to scope. HART and the contractor are collectively working together to formally incorporate the work into the FHSG contract.

WORK PROGRESS:

Activities this Month:

Earned Value: 0%; **Planned Value:** 0%

- HDCC and HART held a ground breaking ceremony Feb. 25 for the West Loch and Waipahu Transit Center Stations.
- Revised draft Baseline has been submitted and is under review by HART. ECP is under review by HART. Approval is contractually required prior to commencement of construction.
- HART is working with CE&I staff to quantify additional scope of work added in the IFC set of plans. The contractor has mobilized on the West Loch Makai site, in preparation for earthmoving activities.

Look Ahead:

- HART is still awaiting the Value Engineering proposals from HDCC.
- Baseline Schedule approval is pending HART review and HDCC response.
- Quantification of changes from the IFB set and addendum compared to the IFC set.

KEY ISSUES:

- Quantification of change work included in IFC versus Issued for Bid (IFB) plus addendum and how those changes are incorporated into HDCC's contract. Administrative processing time required to identify, quantify, negotiate and incorporate the changes formally into HDCC's contract is the largest concern.
- Approval of Baseline Schedule and ECP.

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: May 2016
Projected Substantial Completion: May 2016

Project Description: The MSF contract consists of the Operations and Servicing Building (OSB), Maintenance of Way (MOW), Train Wash Facility (TWF) and Wheel Truing Building (WTB). 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 May 2, 2016.

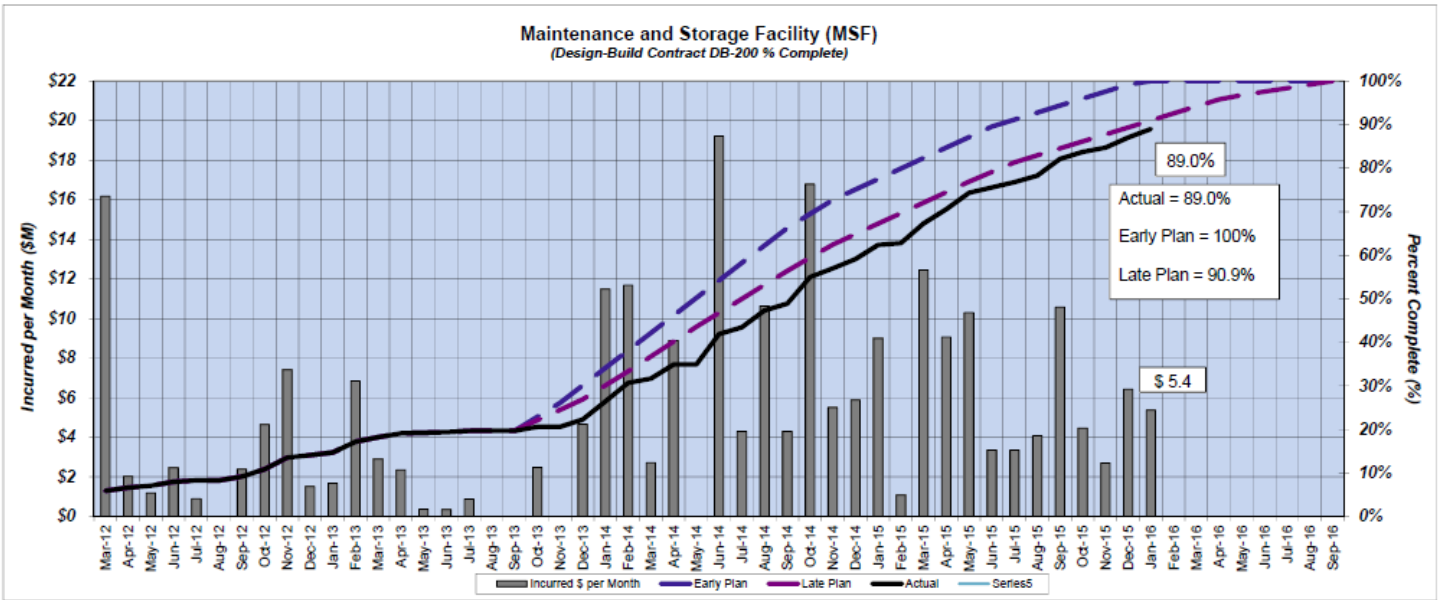
COST INFORMATION:

Original Contract:	$195,258,000	Incurred-to-Date:	$244,796,061
Current Contract Value[1]:	$275,685,819	Incurred in January:	$5,367,668

[1] *Current Contract Value = Original contract value + executed Change Orders*

DBE Participation	
Actual DBE Participation:	$457,029
DBE % Attained:	0.23%

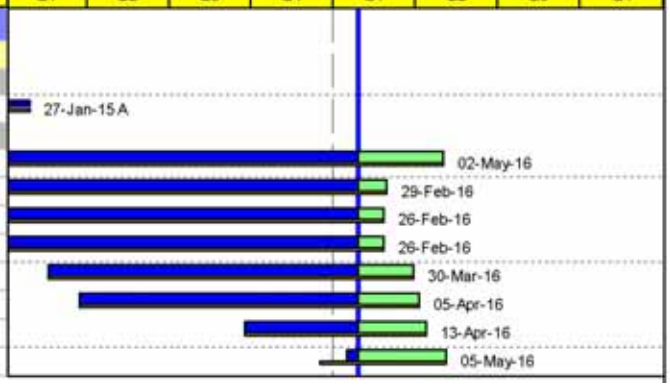
January Change Orders		
Change No.	**Description**	**Amount ($)**
CCO 040	Layout Direct Fix/Ballasted Turnout	($422,634)
CCO 042	Mainline Rail Material Quantities	($38,000)
CCO 043	Storage Lease Extension	$99,030
	Cumulative to Date	**$79,427,819**



SCHEDULE:

January 2016 Update — Data Date: 29-Jan-16, Printed On: 09-Feb-16

Activity Name	Start	Finish
Total	29-Aug-11 A	05-May-16
Maintenance & Storage Facility (MSF)	29-Aug-11 A	05-May-16
Design	29-Aug-11 A	27-Jan-15 A
Design & Engineering	29-Aug-11 A	27-Jan-15 A
Construction	26-Jul-12 A	05-May-16
Site Civil/Utilities	26-Jul-12 A	02-May-16
Operations & Servicing Building	27-Nov-13 A	29-Feb-16
Maintenance of Way Building	12-May-14 A	26-Feb-16
Wheel Truing Building	18-Jul-14 A	26-Feb-16
Yard Trackwork	17-Feb-15 A	30-Mar-16
Train Wash Facility	23-Mar-15 A	05-Apr-16
Third Rail	25-Sep-15 A	13-Apr-16
Project Facility Commissioning, Closeout & Turnover	15-Jan-16 A	05-May-16



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 91% Complete Overall as of 2/29/16	
Element	% Complete*
OSB	93%
MOW Building	94%
WTB	97%
TWF	60%
Rail Procurement	100%

*Not including testing and commissioning.

WORK PROGRESS:

Activities this Month:

Earned Value: 87% [(Total Achieved to December ($234 million) + Projected January 2016 Period ($5.6 million))/Total Contract Including Executed Change Orders ($275 million)]. Planned Value: 92%

Yard/Utilities

- Installing conduit for systems, communications, train control, traction power, site electrical and exterior lighting.
- Track drain, subballast, and ballast installation at East Yard Lead and West Yard Lead and RL 1 Track north of TWF.
- Completed paving for portions of Driveways 'B' and 'C.'
- Poured concrete curb and gutter and placed aggregate base course for portions of Driveways 'A', 'B' and 'C.'
- Installed oil and water separator vaults for MOW and OSB.

Operations and Servicing Building (OSB)

- Installation of mechanical/electrical/plumbing is ongoing.
- Elevator installation continues.
- Installing service and emergency lighting.
- Installing interior and exterior building finishes.
- Installing power distribution cabinets.
- Completed installation of overhead doors.
- Completed installation of HVAC system.
- Installed compressed air lines (copper).
- Completed installation of office doors and hardware, lockers and benches.

Maintenance of Way (MOW)

- Continue installing mechanical/electrical/plumbing systems.
- Energized all interior lighting.
- Completed occupancy sensors and exit lights.

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.
- Complete turnover of Phases 1 and 5 storage tracks to CSC.
- Complete paving of Driveways 'A', 'B' and 'C.'

OSB

- Installation of turntables and hydraulic lifts.
- Installation of overhead bridge cranes and electrical power test.
- Completion of interior finishes.
- Test and balance HVAC system.
- Install bathroom cabinets and fixtures.

MOW

- Interior and exterior finishes.
- Continue electrical, mechanical and plumbing.

Activities this Month (continued):

- Completed installation of ceiling tiles (2nd floor).
- Installed timber decking off Breakroom.
- Completed installation of office doors and hardware.
- Initiated installation of shop equipment.
- Completed installation of pallet racks.
- Completed installation of overhead door operators.
- Completed installation of Fire Detection and Alarm System (FDAS).
- Completed installation of bathroom tiles and lockers. Initiated installation of bathroom cabinets, partitions and fixtures.

Wheel Truing Building (WTB)

- Performed interior paint touch-up and installed ceramic wall tile.
- Completed plumbing trimout.

Train Wash Facility (TWF)

- Completed installation of standing seam metal roofing system.
- Ongoing transport and installation of Direct Fixation Track.
- Commenced installation of recycle water/wash equipment.
- Continue electrical installation.

Rail Procurement and Installation

- Installation of contact rail is ongoing.
- Installation of turnouts is ongoing.
- Installation of pre-curved rail is ongoing.
- Installing subballast and ballast for ready tracks RL1 north of Train Wash.
- Continuity testing of running rail and conductivity testing of contact rail.
- Turnover of Phases 2, 3 and 4 to CSC is complete.
- Preparing for turnover of Phase 1 and 5 storage tracks to CSC.

Administration

- Continued working with the CSC to resolve design interface issues and turned over raceways and areas of the rail yard.

Look Ahead (continued):

- Install shop equipment.
- Test adjust and balance HVAC.

WTB

- Testing of Wheel Lathe.
- Complete finishing of floors.
- Complete plumbing trim.
- Ceramic tile.
- Release Building Systems raceway to CSC.

Train Wash Facility

- Continue installation of Direct Fixation Track.

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 Interface Control Documents (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.
- NCR 30 concerns TWF sewer drain discrepancies.
- NCR 31 concerns TWF CMU Walls.
- NCR 32 concerns TWF Direct Fixation anchorage.

MSF NCR Log		
Total NCRs Issued To Date	CLOSED	OPEN
32	27	5

PROJECT PICTURES:

Grading initial ballast for RL tracks near TWF.

OSB bathroom tile and shower insert.

TWF standing seam metal roofing system.

MOW locker installation.

Forming Curb and Gutter at intersection of Driveway 'A' and 'B.'

OSB terrace decking.

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 work scope is made up of utility relocations, highway widening, drilled shaft foundations, columns and aerial structure.

Project Overview: Construction of the drilled shafts continues east of the H-1 overpass. Column construction has been completed from the WOFH project limits to Waimano Home Rd., with the exception of the Cantilever "C" piers at Acacia that are currently being post-tensioned as the segments are erected upon them. Construction of columns in the Aloha Stadium area are scheduled to begin construction.

HART and KIWC continue to work at senior management levels to ensure current utility relocation schedules are being maintained.

Per KIWC's progress schedule, 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.

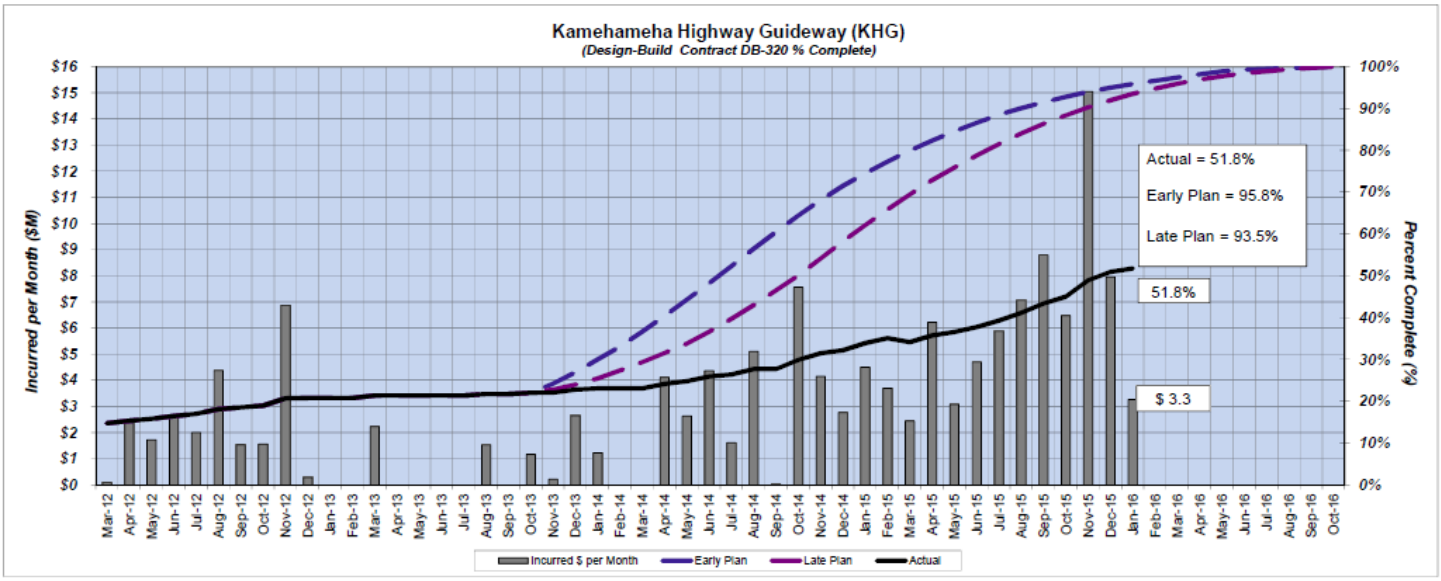
COST INFORMATION:

Original Contract:	$372,150,000	Incurred-to-Date:	$201,404,960
Current Contract Value[1]:	$388,967,876	Incurred in January:	$3,271,743

[1] *Current Contract Value = Original contract value + executed Change Orders*

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

January Change Orders		
Change No.	Description	Amount ($)
None	---	---
	Cumulative to Date	**$16,817,876**

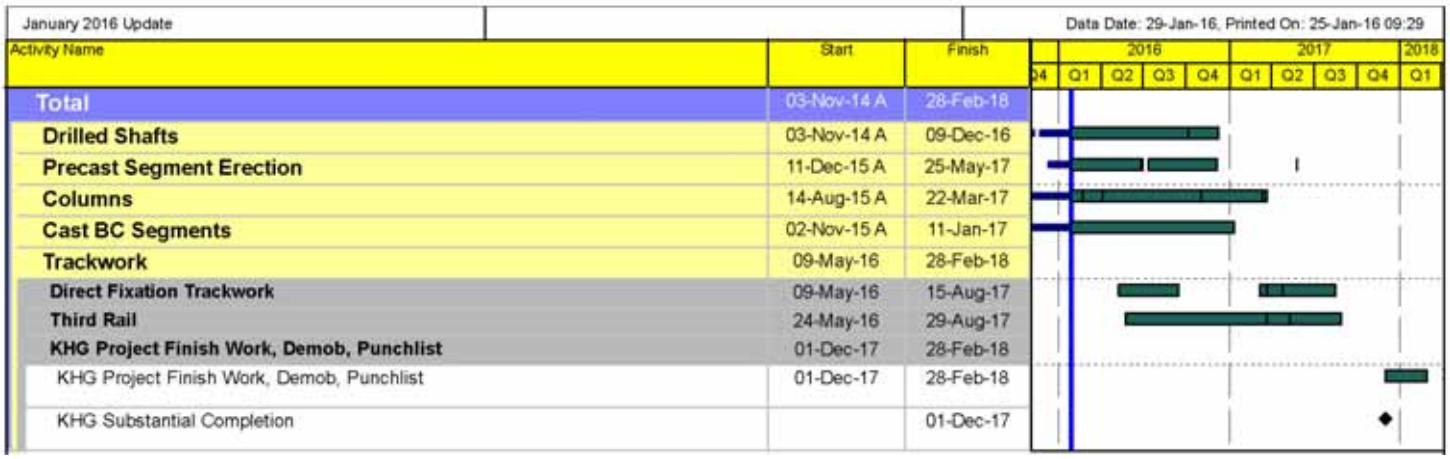


KIWC Pay Application #54 for the December 2015 billing was approved by HART. Invoices applications #55 and #56 were rejected.

SCHEDULE:

KIWC submitted a schedule revision in December 2014 with a data date of October 2014, which 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. Until then, the schedule is deemed unaccepted. Subsequently, KIWC submitted a revised schedule in September 2015 via an RFC for contract time extension. The re-sequencing of the guideway and road work contains significant 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; this reflects a potential 12 month delay to the contractual substantial completion date.

KIWC continues to have challenges meeting schedule due to various factors including lower productivity and resource sharing between the KHG and WOFH projects.



CRITICAL PATH ISSUES:

- HECO schedule forecasts at utility conflicts 11-920-M1 and 8-860-M1 are affecting utility relocations work. HART is tracking this issue and notes that its criticality needs to be established.

WORK PROGRESS:

KHG Construction Status as of 2/12/16

Utility Status	Qty to Date	Final Qty	% Complete
Water Line	4,362	4,362	100%
Gas Line	12,641	12,641	100%
Sewer Line	492	492	100%
Drainage	710	1,469	48%
Elec/Telecom	15,961	19,455	82%
Signals/ITS/ Lights	13,587	18,486	74%

Structure Element	Total to Date	Planned to Date: Accepted Schedule*	Planned to Date: Revised Schedule**	Total Qty	% Complete
Shafts	119	158	125	186	64%
Columns	33	117	54	169	20%
Segment Casting	1,060	1,447	1,187	2,075	51%
Spans Stressed	11	105	13	166	7%

* Accepted Schedule was submitted in 2013.
** These quantities are based on KIWC's pending August 2015 schedule revision dated Sept. 23, 2015. Revised schedule reflects a 12 month delay in completion.

Activities this Month:

Earned Value: 54.5% [(Total achieved to January 2016 ($199.9 million) + February 2016 projection ($12.1 million))/Total contract including executed Change Orders ($389 million)]. Planned Value: 94.7%

Shaft/Column/Segments

- 119 of 186 shafts have been installed; 64% of all shafts have been completed on KHG.
- 33 of 169 columns have been constructed.
- 1,060 of 2,075 segments have been cast.
- Segment 276 suffered a damaged end flange as it was being set; a repair program is being developed for this condition. The segment has been set upon the columns and is stable. The truss has moved on to the next span.

Look Ahead:

Design Progress

- KIWC is working to complete final design. To date 42 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 should begin in March. This work was pushed back one month to allow the 400 series shafts to begin another heading for guideway construction.

Activities this Month (continued):

- Column construction has resumed, since WOFH columns are complete, and will continue to advance.
- Balanced Cantilever superstructure east of the H-1 overpass is continuing with Column 308. Stem wall and diaphragm are continuing on Column 307.
- Structures access in front of Waimalu Shopping Center will be installed.
- Construction of Balanced Cantilever stem wall and diaphragms are complete west of the H-1 overpass for pier 306. Crews placed the top deck and completed transverse post-tensioned top deck. Longitudinal post-tensioning will be ongoing as construction progresses.
- "C" pier columns at Shafts 277, 278 and 279 will have final post-tensioning, after guideway is placed atop "C" piers.

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.
- System site 10 pad has been completed.

Roadway Widening

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

Look Ahead (continued):

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

- Superstructure construction will continue at the BCS area.

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 additional work. Work is anticipated to begin after issuance of a memorandum of understanding and change orders.

KEY ISSUES:

- **Night Noise Variance** – HART was notified by the Department of Health that backhoes and excavators will no longer be allowed for nighttime work due to improper use of the equipment at night and public complaints received. HART has requested reconsideration on behalf of the contractor and is awaiting a state DOH response. Additionally, permanent ITS work continues to be installed along the alignment, and traffic signal crews ceased construction due to nighttime noise restrictions.

- **HDOT Additional Work** – HART has issued eight RFCRs to date covering HDOT additional work, and have completed negotiations with KIWC, and have obtained scope and cost concurrence from HDOT. HART and HDOT are working in partnership to finalize the Memorandum of Understanding between HART and HDOT. The remainder of the additional work RFCR is still pending negotiations with KIWC and coordination with HDOT.

  KIWC notified HART on Dec. 10, 2015, that they have halted all construction work activities related to HDOT Additional work until HART issues an executed change order for the out of scope work. HART is tracking this issue and notes that its criticality needs to be established.

- **Third Party Utility Impacts** – HART and KIWC continue to work at senior and executive management levels to ensure current utility relocation schedules are being maintained.

- **KIWC Resource Allocations** – Column construction has resumed in February.

- **Kohomua Septic Tank Remediation** – Kohomua septic tank has been remediated and filled with soil and grout. This allowed KIWC to drill Shafts 421 L&R and 422 L&R.

QUALITY MANAGEMENT:

- **Quality Process** – KIWC continues to follow an established quality process and have not encountered any significant new 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 6 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.
- Segment 276 suffered a damaged end flange as it was being set; a repair program is being developed for this condition.

KHG NCR Log		
Total NCRs Issued To Date	CLOSED	OPEN
119	97	22

PROJECT PICTURES:

Rough setting Span 270, Phase 1.

BCS placing bottom slab, Phase 4.

Shaft 336 drilling at night, Phase 6.

Shaft 359 drilling at night, Phase 9.

Decorative column insert, Phase 12.

Excavation of Shaft 422R, Phase 13.

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.

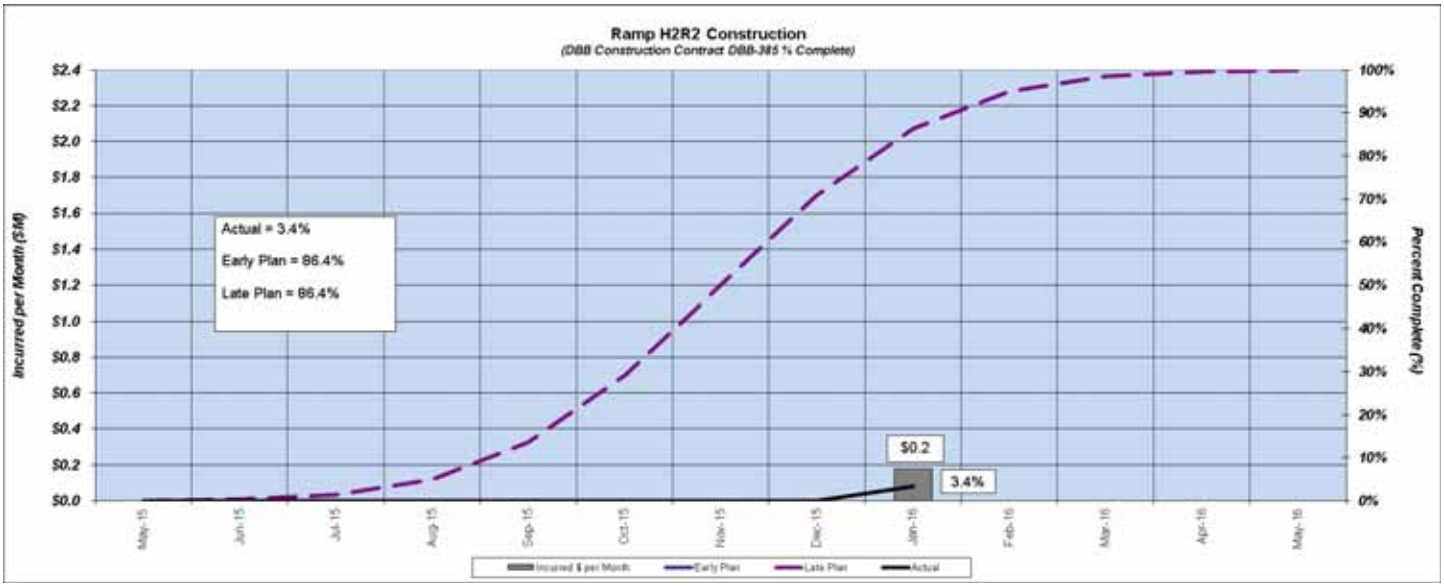
COST INFORMATION:

Original Contract:	$5,203,646	Incurred-to-Date:	$177,345
Current Contract Value[1]:	$5,203,646	Incurred in January:	$177,345

[1]*Current Contract Value = Original contract value + executed Change Orders*

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

January 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:

January 2016 Update — Data Date: 29-Jan-16, Printed On: 09-Feb-16 12:21

Activity Name	Start	Finish
Total	18-May-15 A	19-Aug-16
West Guideways & Structures	18-May-15 A	19-Aug-16
Construction - H2R2 Ramp	18-May-15 A	19-Aug-16
Construction - H2R2 Ramp	18-May-15 A	19-Aug-16
Substantial Completion - H2R2 Ramp		19-Aug-16

CRITICAL PATH ISSUES:

- TMK 9-6-004:006 soils remediation area has been enlarged by DOH to now include approximately 200 cubic yards of soil remediation.
- HART and HDOT have worked through their concerns of the contaminated soils discovered on site. In February, HART received formal written notification that the issues have been resolved.

WORK PROGRESS:

Activities this Month:

Earned Value: 0%; Planned Value: 0%

- All Required Forms, Reports and Certifications are not yet approved.
- Baseline schedule is pending resubmittal by the contractor.
- Complete approval of contractor's safety and security officer.

Look Ahead:

- Approval of all required submittals.
- Resolve all contaminated soil issues within the site.
- Commencement of construction activities is anticipated in March.

KEY ISSUES:

- Contractor to submit revised baseline schedule and complete all pre-construction submittal requirements.

QUALITY MANAGEMENT:

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

C. Kamehameha Highway Station Group (KHSG)

Contract No.: FD-340
Contractor: Anil Verma Associates, Inc. (AVA), Final Design Consultant (Engineer of Record)
Contract Start Date: November 2012
Construction Docs Bid-Ready:
Ramp H2R2: January 2015 (in construction)
Kamehameha Highway Stations: August 2015 (bids received)

Project Description: The Kamehameha Highway Stations Group FD Contract (KHSG) consists of architectural and engineering services for the design of three (3) transit stations serving the Kamehameha Highway Guideway. The three (3) stations comprising the KHSG contract are the Pearl Highlands Station, the Pearlridge Station, and the Aloha Stadium Station. The Pearl Highlands Station also includes two highway ramps.

Project Overview: The KHSG construction contract was awarded to Nan, Inc. on Jan. 27, 2016.

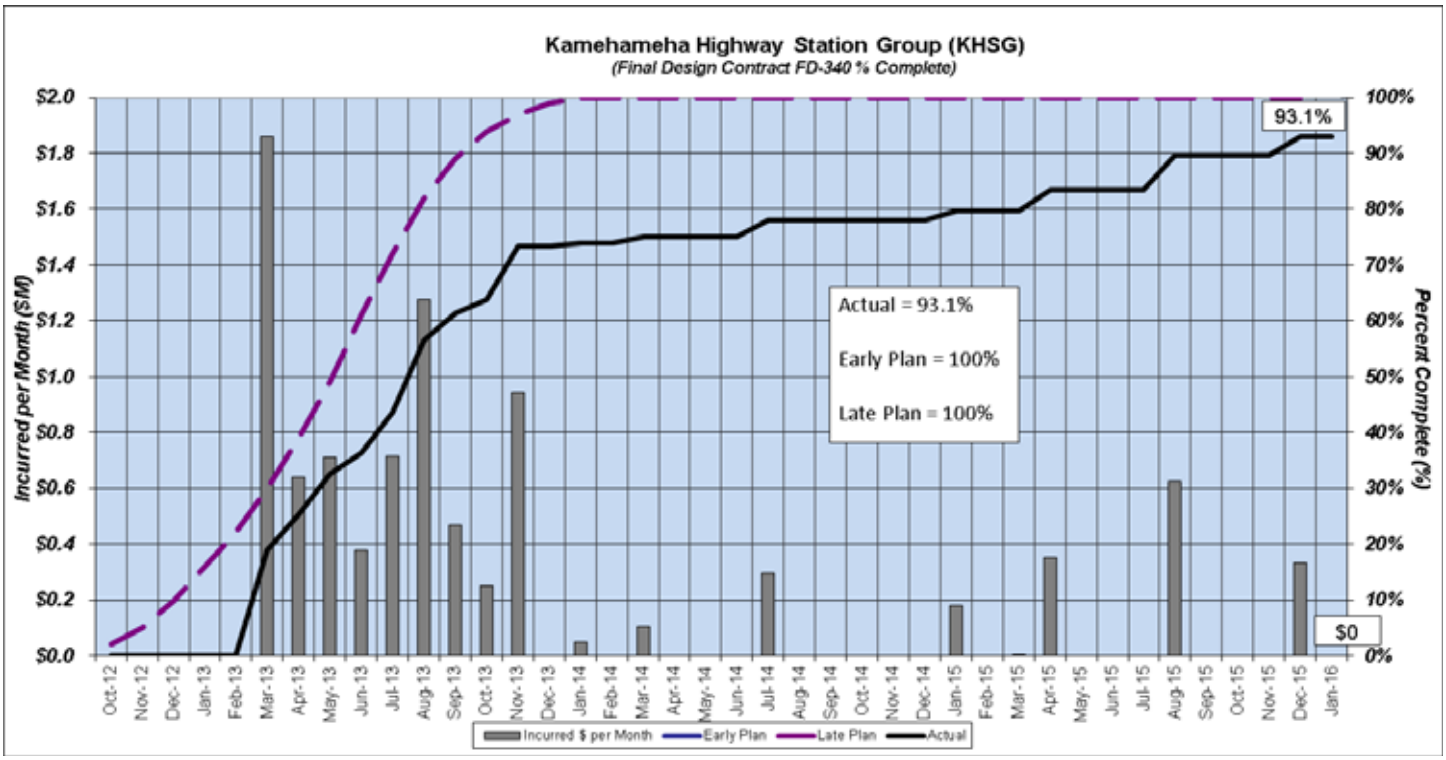
COST INFORMATION:

Original Contract:	$8,702,592	Incurred-to-Date:	$9,177,277
Current Contract Value[1]:	$9,859,290	Incurred in January:	$0

[1] *Current Contract Value = Original contract value with Design Allowance + executed Change Orders*

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

January Change Orders/Amendments		
Change No./Amend	Description	Amount ($)
None	---	---
	Cumulative to Date	**$1,199,698**



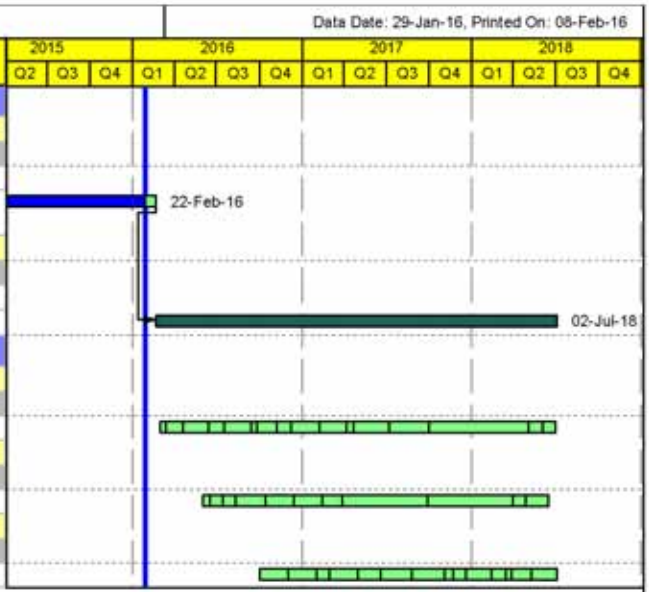
The progress chart reflects early program expectations. When the overall schedule is rebaselined, the cost curve will be revised.

The design phase of this contract is substantially complete.

SCHEDULE:

January 2016 Update — Data Date: 29-Jan-16, Printed On: 08-Feb-16

Activity Name	Start	Finish
Design - Kamehameha Highway Station Group	16-May-14 A	02-Jul-18
Design - Bid Support	16-May-14 A	22-Feb-16
Design - Bid Support	16-May-14 A	22-Feb-16
Design - Bid Support	16-May-14 A	22-Feb-16
KHSG Design - Perform Final Design	16-May-14 A	22-Feb-16
Design - Construction Support	23-Feb-16	02-Jul-18
Design - Construction Support	23-Feb-16	02-Jul-18
Design - Construction Support	23-Feb-16	02-Jul-18
KHSG Design - Perform Final Design	23-Feb-16	02-Jul-18
Construction - Kamehameha Highway Station Gr	01-Mar-16	02-Jul-18
Pearl Highlands - Station	01-Mar-16	29-Jun-18
Pearl Highlands - Station	01-Mar-16	29-Jun-18
Pearl Highlands - Station	01-Mar-16	29-Jun-18
Pearl Ridge Station	01-Jun-16	15-Jun-18
Pearl Ridge Station	01-Jun-16	15-Jun-18
Pearl Ridge Station	01-Jun-16	15-Jun-18
Aloha Stadium Station	03-Oct-16	02-Jul-18
Aloha Stadium Station	03-Oct-16	02-Jul-18
Aloha Stadium Station	03-Oct-16	02-Jul-18



CRITICAL PATH ISSUES:

- Obtaining final design approval from DPP.

WORK PROGRESS:

Activities this Month:

- Current earned value is approximately 99%.
- Finalized construction documents.

Look Ahead:

- N/A.

KEY ISSUES:

- N/A.

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
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). The remaining scope of design has been terminated and will be completed under a design-build procurement.

Project Overview: The services under this contract are now limited to engineering support during construction, and support to HART during the design-build procurement.

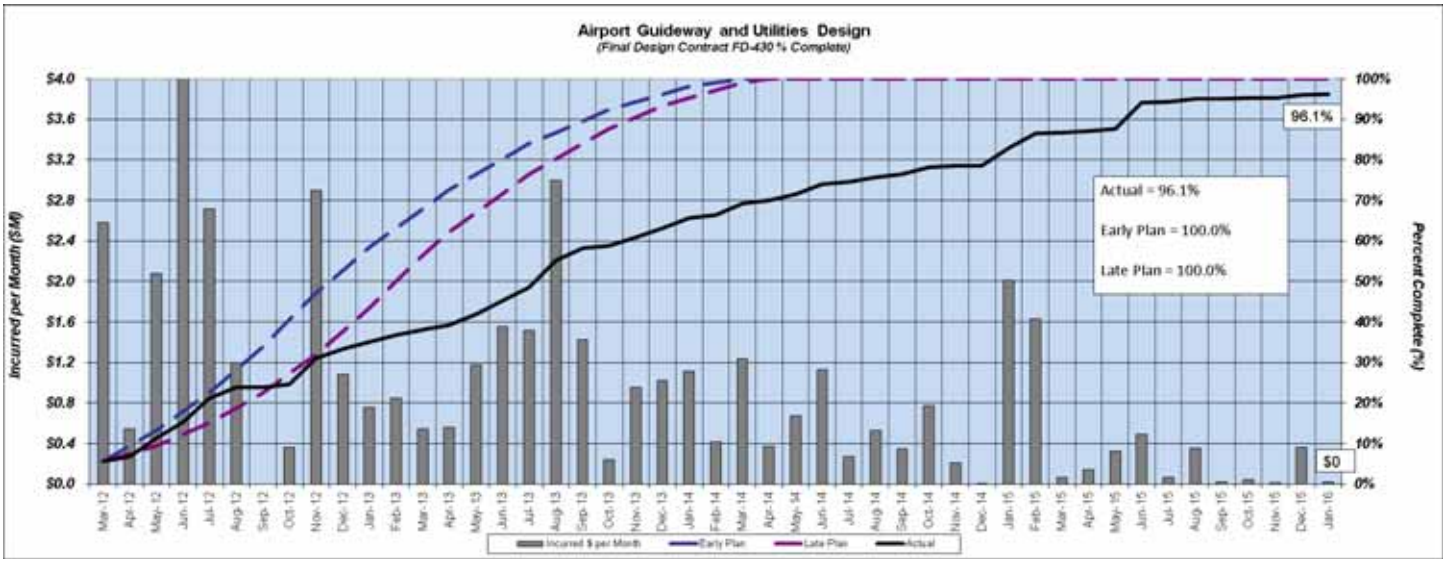
COST INFORMATION:

Original Contract:	$38,840,960	Incurred-to-Date:	$41,471,470
Current Contract Value[1]:	$43,134,472	Incurred in January:	$24,309

[1] *Current Contract Value = Original contract value with Design Allowance + executed Change Orders*

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

January 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:

January 2016 Update			Data Date: 29-Jan-16, Printed On: 19-Feb-16
Activity Name	Start	Finish	
Airport Guideway & Stations (AGS)	07-Apr-15 A	20-Nov-20	
Airport Guideway & Stations - Design Build Procurement Part 1	07-Apr-15 A	31-Aug-15 A	
Airport Guideway & Stations - Design Build Procurement Part 2	25-Sep-15 A	20-May-16	
DB-450 Airport Guideway & Stations - Design & Construction	20-Jun-16	20-Nov-20	

CRITICAL PATH ISSUES:

- N/A.

WORK PROGRESS:

Activities this Month:

- Current earned value is approximately 97%.
- Supporting current construction contracts.
- Supporting AGS DB procurement.

Look Ahead:

- N/A.

KEY ISSUES:

- N/A.

B. Airport Section Utilities Construction

Contract No.: DBB-505
Contractor: Nan, Inc.
Contract Start Date: July 2014
Contract Substantial Completion: March 7, 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. A contract change order has been executed to extend the substantial completion date to March 7, 2016. Approval of a modified Traffic Control Plan allows the contactor to have additional time to perform work during the day. Nan is also working closely with the Navy in resolving various duct bank and utility issues discovered in the field, including unclaimed / unidentified power lines along Kamehameha Highway. Meanwhile, Nan, Inc. continues to develop and submit outstanding submittals.

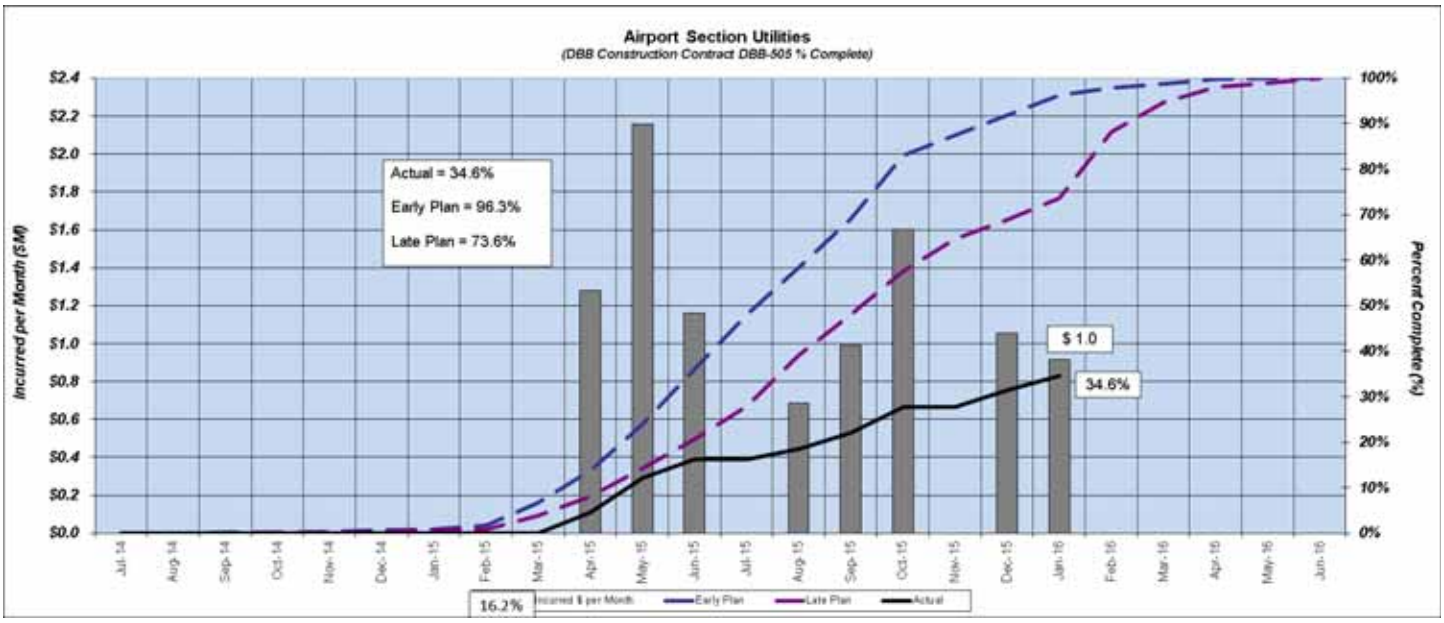
COST INFORMATION:

Original Contract:	$27,993,290	Incurred-to-Date:	$9,844,953
Current Contract Value[1]:	$27,993,290	Incurred in January:	$914,592

[1] *Current Contract Value = Original contract value + executed Change Orders*

DBE Participation	
Actual DBE Participation:	$34,988
DBE % Attained:	0.12%

January 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:

CRITICAL PATH ISSUES:

- No critical path issues at this time.

WORK PROGRESS:

Activities this Month:

Earned Value: 38%; Planned Value: 40%

- Nan, Inc. has submitted a baseline construction schedule, which has been approved. They are working on a revised baseline schedule based on the current contract substantial completion and extended work hours.
- Inspection and Testing Plan (ITP) has been submitted by Nan and returned by HART with comments.
- Continue to install portions of the sewer line, waterline and gas line along Kamehameha Highway.

Look Ahead:

- Ongoing utility work on Kamehameha Highway (30-inch and 24-inch waterline connection, telecom duct line and gas line).
- Coordinate with the Navy and third party communications utilities to resolve duct/lines that were damaged and utility lines that are unclaimed.
- CE&I II team continues to process outstanding RFC's into Contract Change Orders to the contract.
- CE&I II team continues to review and respond to RFI's dealing with field conflicts and unknown utilities.

KEY ISSUES:

- HART is working on Change Orders to extend the substantial completion date from March 7, 2016 to July 13, 2016, due to the delay in access to Navy right of entry to perform work (pending final execution).
- Nan, Inc. will be 2 months behind schedule (after resolving the Navy delay).
- Determine status of telecom duct bank work and how to proceed with removal.
- Reviewing location of existing 24" waterline to determine whether the line will be relocated under this contract.
- An Amendment to the approved Noise Mitigation Plan is currently being reviewed.

QUALITY MANAGEMENT:

- Overall quality of the contract is good.

Airport Utilities NCR Log		
Total NCRs Issued To Date	CLOSED	OPEN
17	14	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. The project is currently in a close out phase; final change orders have been executed.

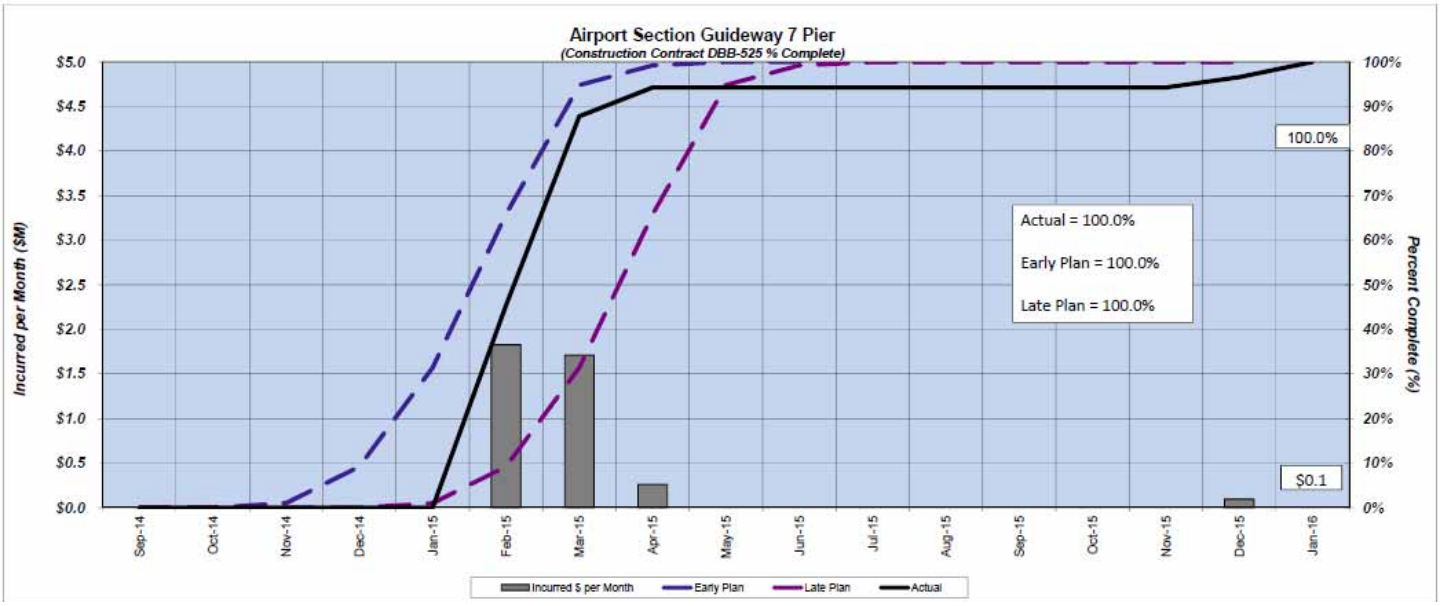
COST INFORMATION:

Original Contract:	$3,973,000	Incurred-to-Date:	$4,027,843
Current Contract Value[1]:	$4,027,843	Incurred in January:	$138,410

[1] *Current Contract Value = Original contract value + executed Change Orders*

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

January Change Orders		
Change No.	Description	Amount ($)
CCO 004	Adjustment for Unused Allowance	($521,728)
CCO 005	CMP Elevation Change	$68,330
	Cumulative to Date	**$54,843**



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 and Change Orders have recently been executed. Project close out and final invoicing is in progress.

WORK PROGRESS:

Activities this Month:

Earned Value: 100%; Planned Value: 100%

- HDCC/CJA JV have submitted their final billing prior to close out; retention will be returned upon close out.

Look Ahead:

- HDCC/CJA JV has the following items to submit for Contract Closeout:
  - 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: N/A

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.

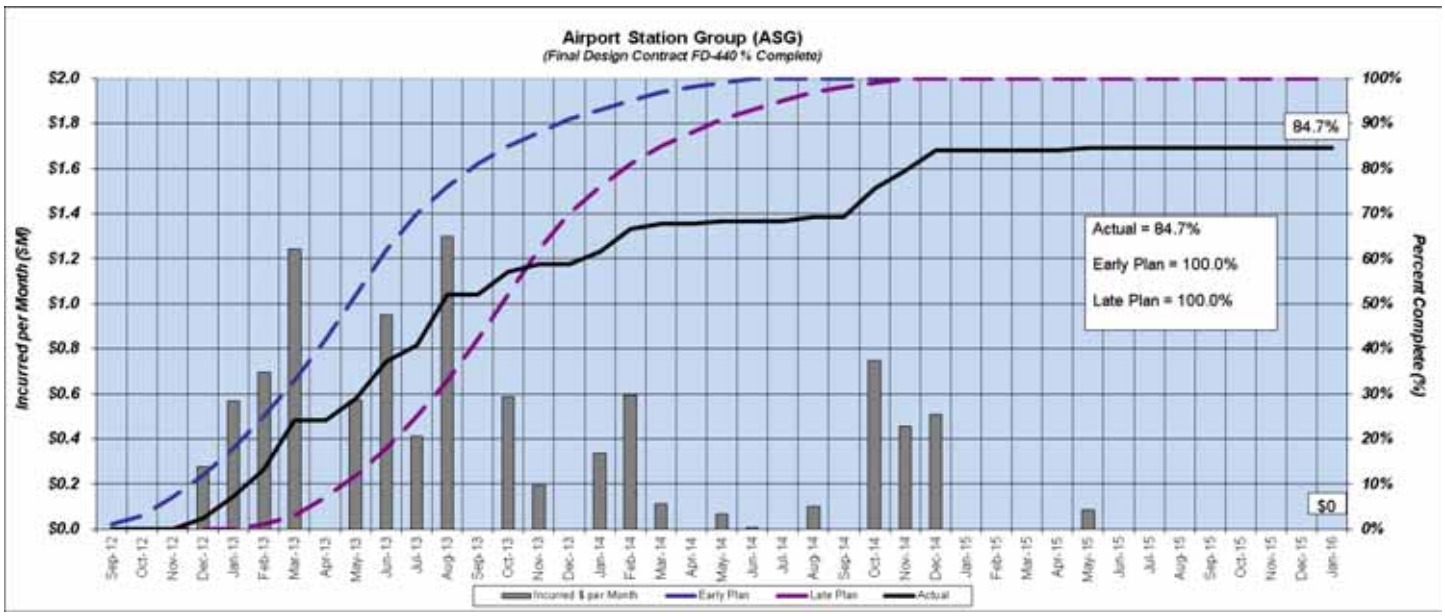
COST INFORMATION:

Original Contract:	$10,177,365	Incurred-to-Date:	$9,801,978
Current Contract Value[1]:	$11,573,852	Incurred in January:	$0

[1] *Current Contract Value = Original contract value with Design Allowance + executed Change Orders*

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

January Change Orders		
Change No.	Description	Amount ($)
None	---	---
	Cumulative to Date	**$1,416,487**



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.

CRITICAL PATH ISSUES:

- N/A.

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.

Look Ahead:

- N/A.

KEY ISSUES:

- N/A.

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

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 services remaining under this contract include preparation of early utilities designs, and support to HART during design-build procurement.

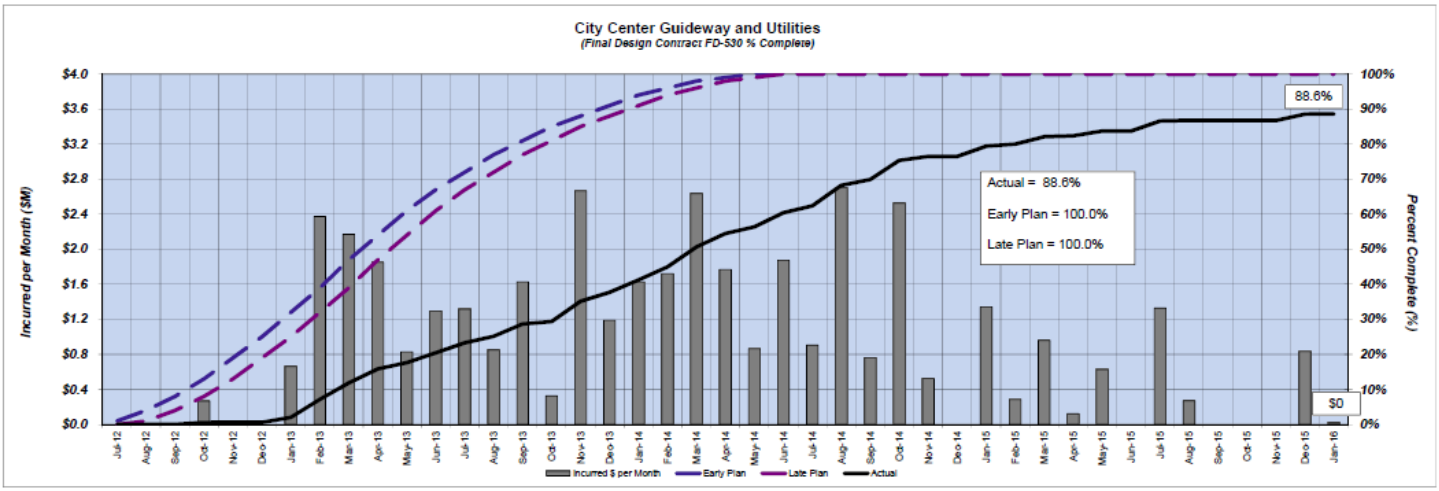
COST INFORMATION:

Original Contract:	$43,948,220	Incurred-to-Date:	$40,930,503
Current Contract Value[1]:	$46,197,562	Incurred in January:	$21,550

[1] *Current Contract Value = Original contract value with Design Allowance + executed Change Orders*

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

January Change Orders/Amendments		
Change No./Amend	Description	Amount ($)
None	---	---
	Cumulative to Date	**$1,296,842**



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:

January 2016 Update			Data Date: 29-Jan-16, Printed On: 19-Feb-16
Activity Name	Start	Finish	
City Center Guideway & Stations (CCGS)	25-Sep-15 A	03-Dec-20	
City Center Guideway & Stations - Design Build Procurement Part 1	25-Sep-15 A	31-Mar-16	
City Center Guideway & Stations - Design Build Procurement Part 2	01-Apr-16	02-Oct-16	
DB-550 City Center Guideway & Stations - Construction	03-Oct-16	03-Dec-20	

CRITICAL PATH ISSUES:

- N/A.

WORK PROGRESS:

Activities this Month:

- Current earned value is approximately 92%.
- Supporting HART on DB procurement.

Look Ahead:

- N/A.

KEY ISSUES:

- N/A.

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: N/A

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 have been combined with the City Center Guideway into a single City Center Guideway and Stations Design-Build package.

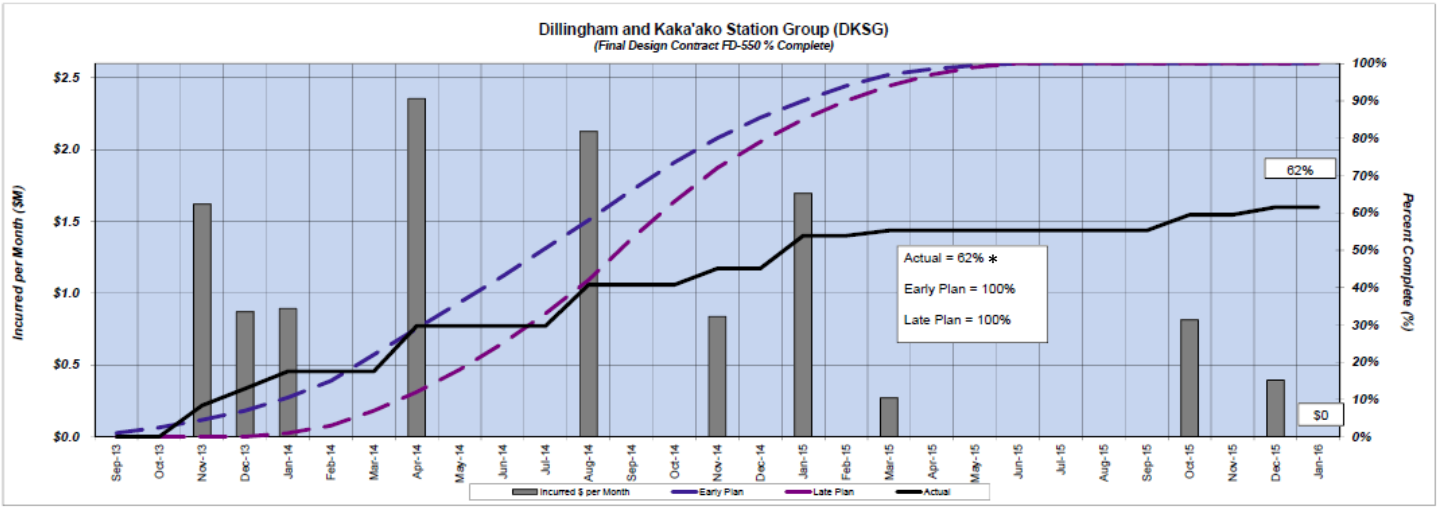
COST INFORMATION:

Original Contract:	$18,321,918	Incurred-to-Date:	$11,875,668
Current Contract Value[1]:	$19,308,042	Incurred in January:	$0

[1] *Current Contract Value = Original contract value with Design Allowance + executed Change Orders*

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

January 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.
* *Change orders not previously accounted for in the chart lowered the actual percentage of completion.*

Due to the change from a DBB to a DB delivery method, the design for these stations has been suspended and will not be completed under this contract.

CRITICAL PATH ISSUES:

- N/A.

WORK PROGRESS:

Activities this Month:

- Current earned value is approximately 68% and is not expected to increase significantly due to the suspension of design activities on this contract.

Look Ahead:

- N/A.

KEY ISSUES:

- N/A.

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.

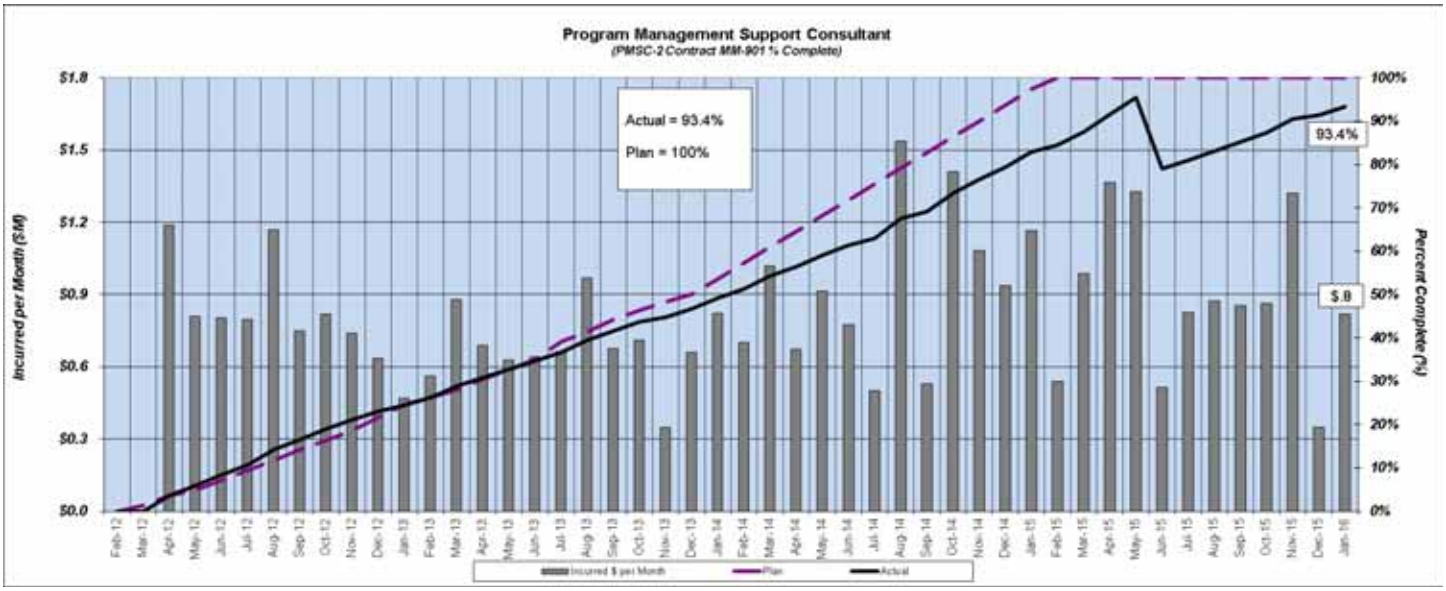
COST INFORMATION:

Original Contract:	$33,376,897	Incurred-to-Date:	$38,296,561
Current Contract Value[1]:	$40,993,274	Incurred in January:	$817,053

[1] *Current Contract Value = Original contract value + executed Change Orders*

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

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



KEY ISSUES:

- HART intends to exercise its option to extend the PMSC contract for the remaining option year, effective March 8, 2016. The current contract will terminate upon award of contract to the successful offeror of the new Request for Qualifications that will be advertised or one year from March 8, 2016, whichever is earlier.

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.

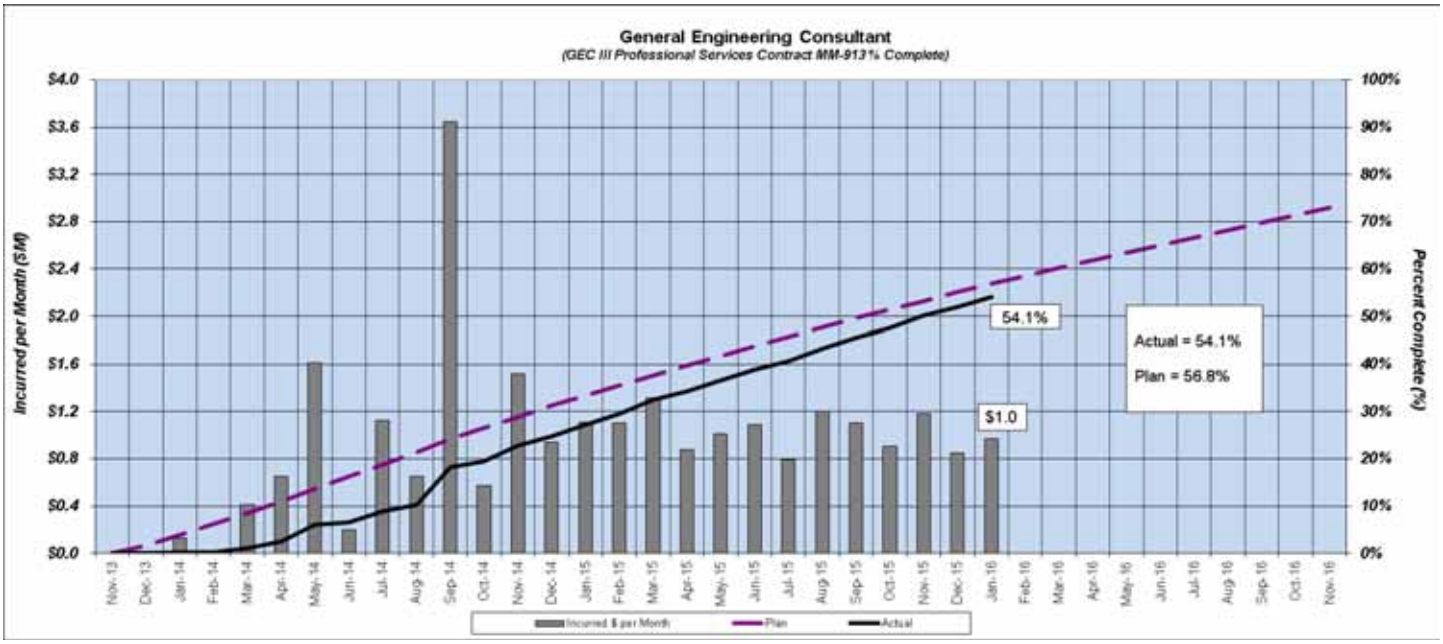
COST INFORMATION:

Original Contract:	$46,143,277	Incurred-to-Date:	$24,952,730
Current Contract Value[1]:	$46,411,728	Incurred in January:	$969,814

[1] *Current Contract Value = Original contract value + executed Change Orders*

DBE Participation	
Actual DBE Participation:	$1,970,775
DBE % Attained:	4.27%

January Change Orders		
Change No.	Description	Amount ($)
None	---	---
	Cumulative to Date	**$268,451**



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 (HRTP) 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.

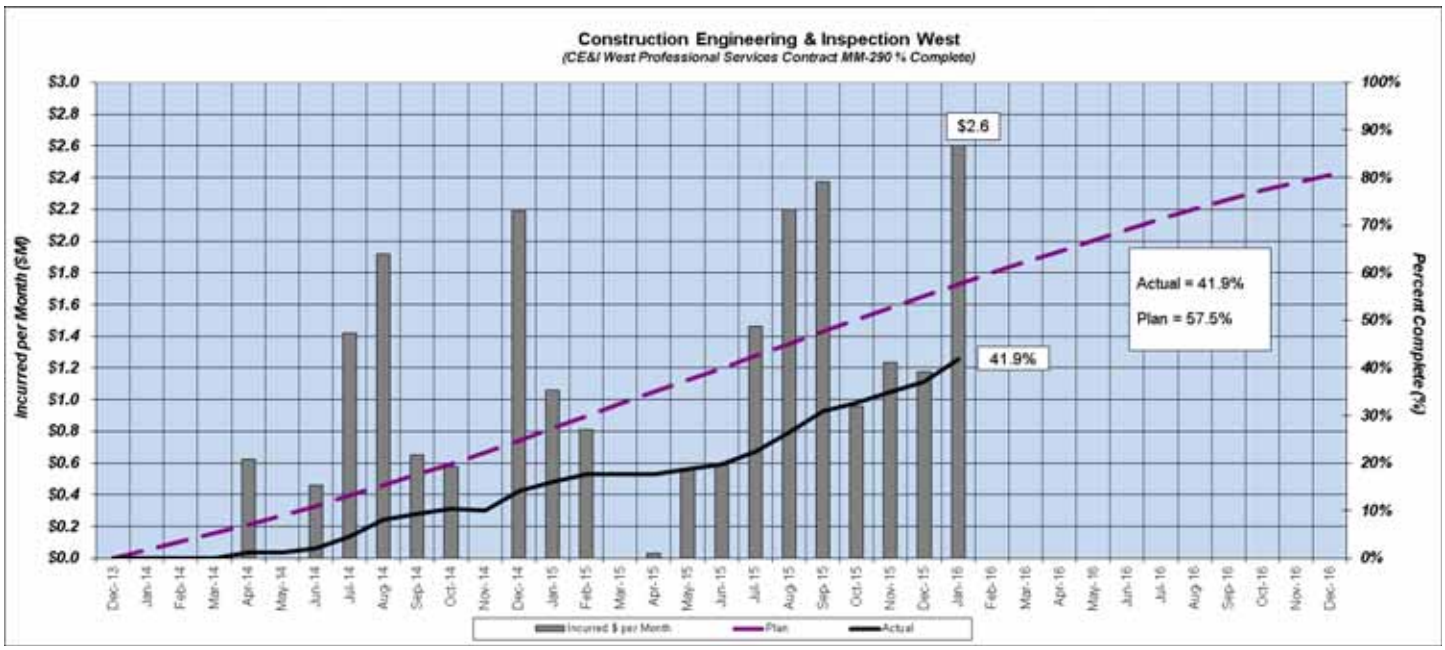
COST INFORMATION:

Original Contract:	$54,232,480	Incurred-to-Date:	$22,739,487
Current Contract Value[1]:	$54,232,480	Incurred in January:	$2,603,758

[1]*Current Contract Value = Original contract value + executed Change Orders*

DBE Participation	
Actual DBE Participation:	$2,172,602
DBE % Attained:	4%

January Change Orders		
Change No.	Description	Amount ($)
None	---	---
	Cumulative to Date	**$0**



KEY ISSUES:

- CE&I West Side Section completed the HART-requested ICE for the Pearl Highlands Parking Garage and Transit Center to support discussion on next steps for the project.
- In the process of establishing a combined field office space in the MOW building at MSF to support the staffing requirements for the west section station group's multiple procurement contracts.
- Schedule durations for the 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 (HRTP) 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.

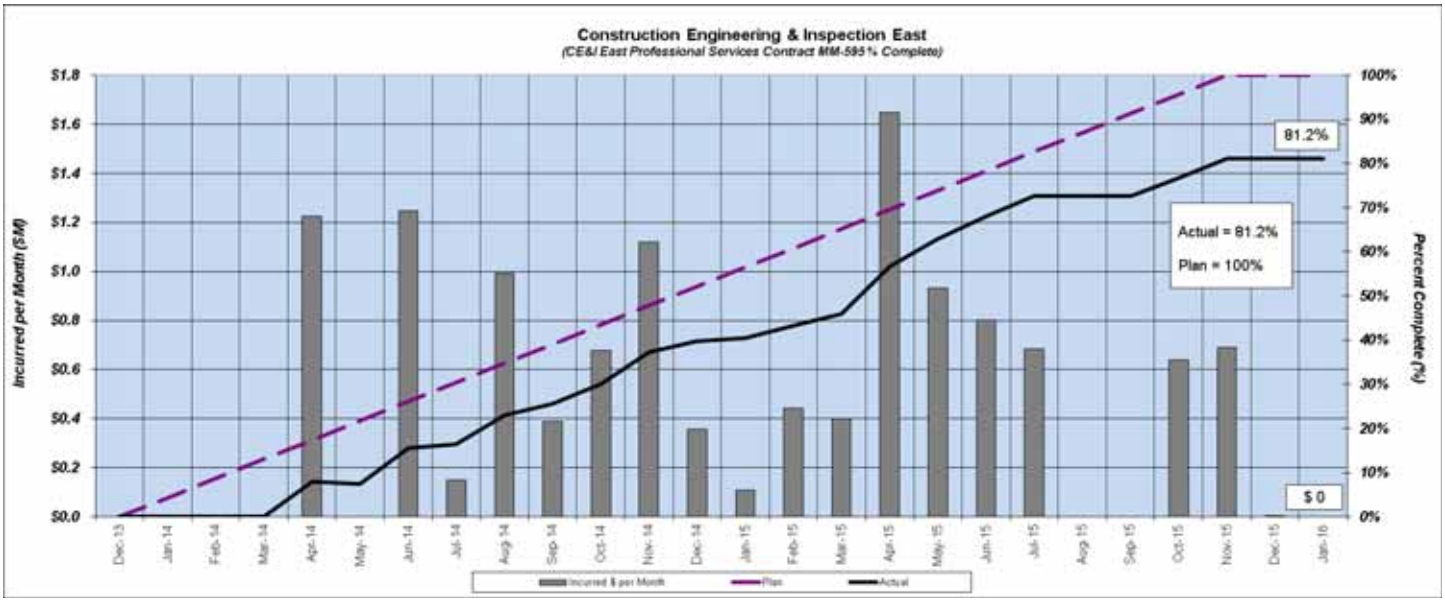
COST INFORMATION:

Original Contract:	$63,083,417	Incurred-to-Date:	$12,382,150
Current Contract Value[1]:	$15,257,000	Incurred in January:	$0

[1] *Current Contract Value = Original contract value + executed Change Orders*

DBE Participation	
Actual DBE Participation:	$1,580,725
DBE % Attained:	10.36%

January 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 is responsible for the Construction, Engineering and Inspection (CE&I) services for the East Section of the Honolulu Rail Transit Project (HRTP) for the Honolulu Authority for Rapid Transportation (HART). The Stantec team is providing services from the preconstruction phase through construction closeout. CE&I II services include: constructability review, resident engineering, construction observation, project controls, scheduling, change management, cost control, document controls, contract administration, estimating, environmental monitoring, surveying, material testing, interface coordination, geographic information system (GIS) support, and claims analysis for the Airport Guideway and Stations design-build contract, City Center Guideway and Stations design-build contract, Airport Section Utilities Construction contract, Dillingham utilities, Elevators and Escalators Design-Furnish-Install-Maintain contract (construction phase only) and Construction On-Call II 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.

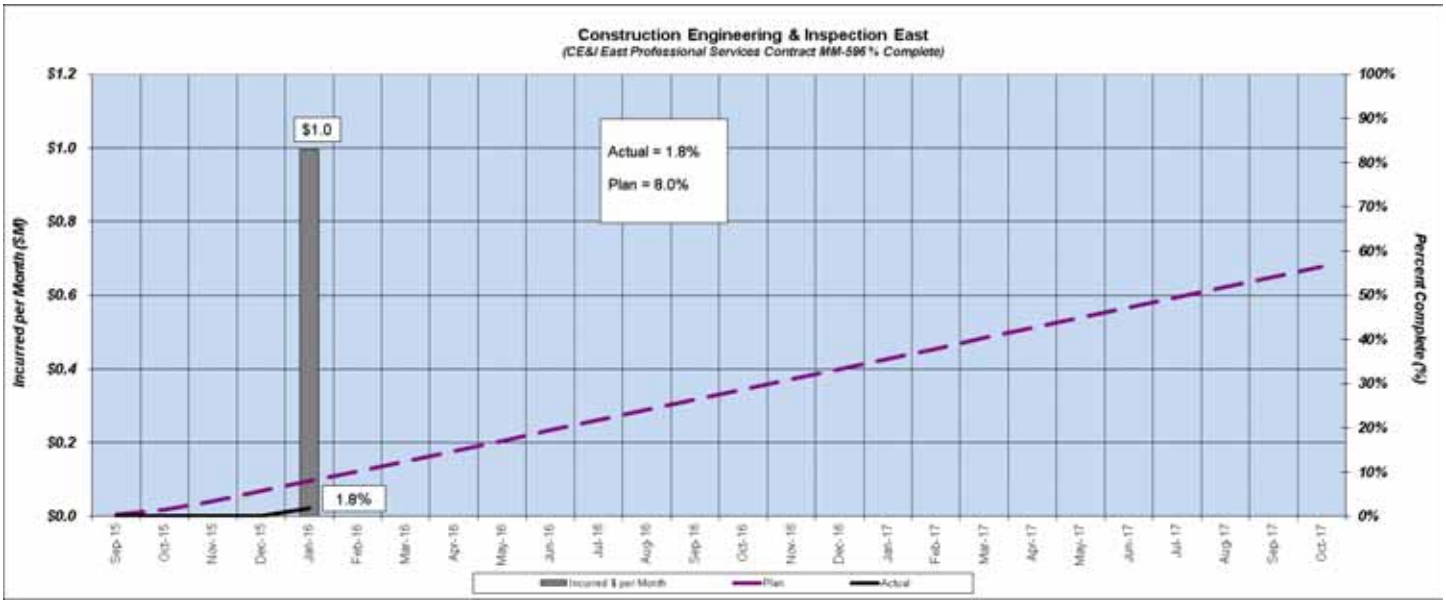
COST INFORMATION:

Original Contract: $55,036,130	Incurred-to-Date: $994,809
Current Contract Value[1]: $55,036,130	Incurred in January: $994,809

[1]*Current Contract Value = Original contract value + executed Change Orders*

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

January Change Orders		
Change No.	Description	Amount ($)
None	---	---
	Cumulative to Date	**$0**



KEY ISSUES:

- HART has requested an Independent Cost Estimate (ICE) and schedule analysis be performed on the Airport Guideway and Stations DB contract, Dillingham utilities, and the City Center Guideway and Stations DB contract. These reviews are currently in process, and are being delivered to HART beginning in February 2016 and continuing through April 2016.
- Invoicing coordination has been completed between Stantec and HART, and (2) invoices have been successfully submitted for processing through CMS. Invoices will be done monthly, going forward, with no delays.

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.

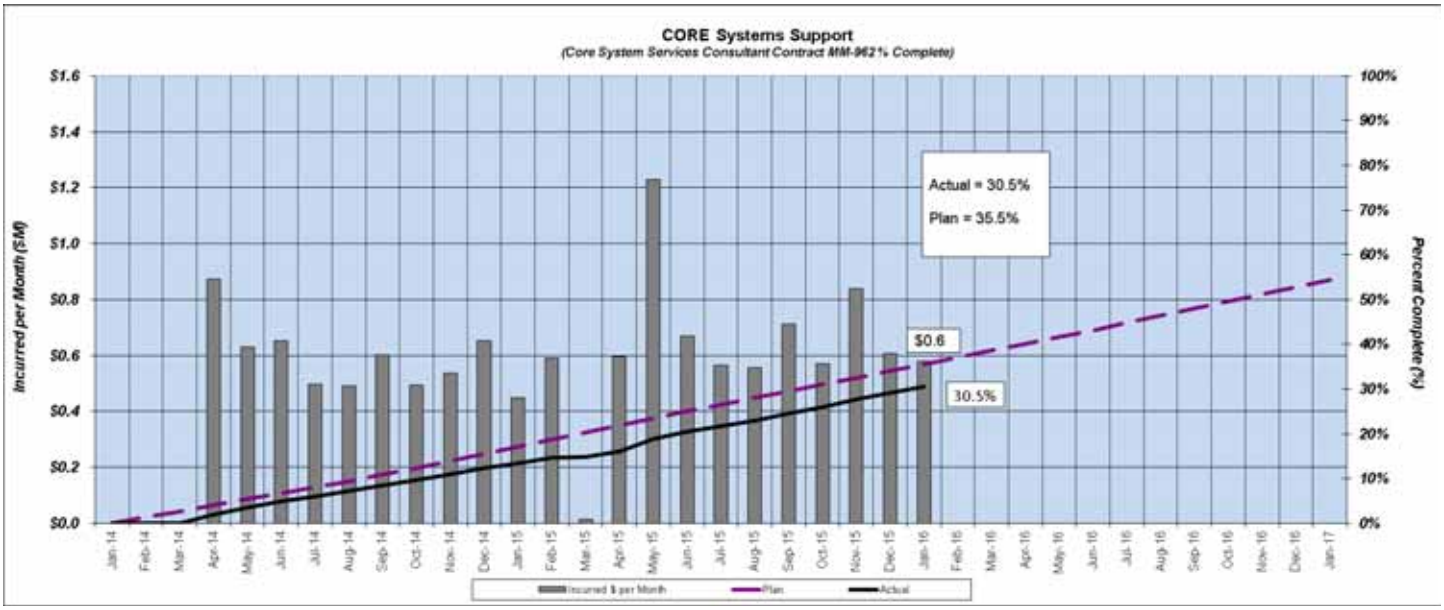
COST INFORMATION:

Original Contract:	$43,988,989	Incurred-to-Date:	$13,409,220
Current Contract Value[1]:	$43,988,989	Incurred in January:	$578,916

[1] *Current Contract Value = Original contract value + executed Change Orders*

DBE Participation	
Actual DBE Participation:	$319,949
DBE % Attained:	0.73%

January 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.

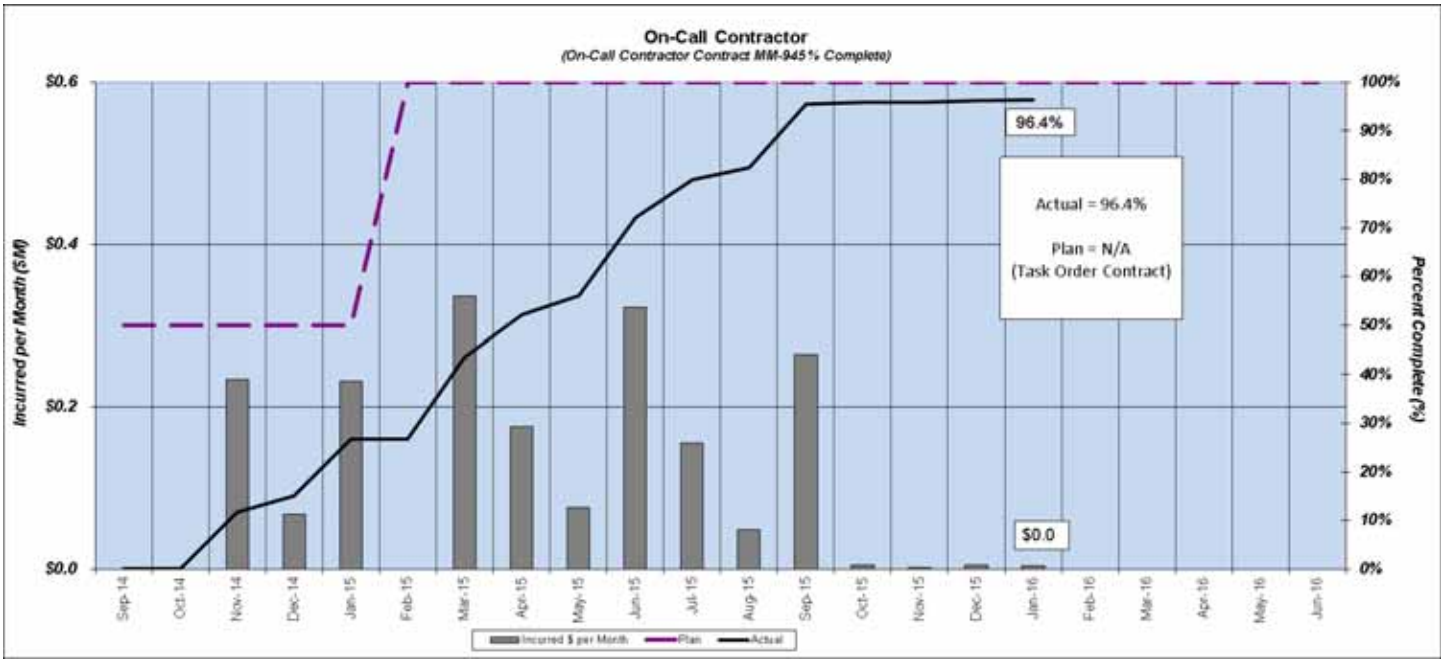
COST INFORMATION:

Original Contract:	$1,000,000	Incurred-to-Date:	$1,927,308
Current Contract Value[1]:	$2,000,000	Incurred in January:	$4,340

[1] *Current Contract Value = Original contract value + executed Change Orders*

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

January Change Orders		
Change No.	Description	Amount ($)
None	---	---
	Cumulative to Date	**$1,000,000**



KEY ISSUES:

- To date, the On-Call Contractor has successfully:
  - Continued to relocate/remove trees along the Airport and City Center guideway.
  - 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.
- New buildings and structures are being identified that require demolition. All demolition work includes the abatement of any hazardous materials identified prior to demolition. Demolition is expected to resume in July 2016, once the current tenant has relocated from the building.
- Maintenance of landscaping along Kamehameha Highway continued during the month of February.
- 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 updated the noise management procedures for the West O'ahu/Farrington (WOFH) and Kamehameha Highway Guideway (KHG) sections.

KEY ISSUES

- HART has completed an ambient noise study in the Airport and City Center sections to establish the baseline noise levels.

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

OVERVIEW

- Ongoing coordination for Intelligent Transportation Systems (ITS), Maintenance of Traffic (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. Awaiting information from the utilities to finalize the outstanding agreements.

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.

Right-of-Way (Section 5.4)

(Data as of Feb. 11, 2016)

OVERVIEW

- Currently, there are no ROW actions impeding construction work. The right to access and construct has been obtained for nearly 14 million square feet or nearly 95% of the total square footage that is required for the project. The ROW team continues to seek construction related access on identified parcels, which may include eminent domain proceedings, and to work on final disposition of identified parcels needed for construction.

KEY ISSUES

- Supporting negotiations to execute third-party agreement with UH Honolulu Community College to allow construction to proceed without delay.
- Supporting negotiations to obtain right of entry from Aloha Stadium for station park-and-ride construction.
- Working with the Federal government to complete documentation for easements, and for the conveyance documents to expedite the transfer of TMK 9-9-002-004.
- Eminent domain
  - The HART Board initiated forty-seven (47) eminent domain cases of which three (3) cases were withheld due to revisions. The Honolulu City Council process was completed and two (2) cases were rejected. There are two (2) active cases on file with the court for eminent domain proceedings.
  - Two (2) additional cases were initiated in January 2016. The HART Board approved the resolutions which were forwarded to the Honolulu City Council. HART anticipates bringing these back to the HART Board for their March meeting.
  - HART continues to negotiate with each property owner in an attempt to reach mutual agreement. However, several more parcels may be proposed to the HART Board of Directors for eminent domain to support east Design Build contracts.

5.1 Permits

- **Permits Submitted and In-Progress**
  - HART submitted the KHG Community Noise Permit continuance for daytime construction from Pearl Highlands to Aloha Stadium.
  - HART submitted the revised Essential Fish Habitat Assessment to the Federal Transit Administration for concurrence.

- **Permits and Approvals Granted**
  - HART received the HDOT approved Municipal Separate Storm Sewer System permit for the East Kapolei, University of Hawaiʻi West Oʻahu, and Hoʻopili stations in order to discharge storm water runoff.
  - HART received the HDOT approved Municipal Separate Storm Sewer System permit which allows for construction discharge at the H2R2 ramp.

- **Look Ahead**
  - Upcoming significant permit activity:
    - HART is in the process of preparing the Noise Permit Variance application for the City Center construction activities.
    - HART is preparing the KHG Community Noise Variance continuance for nighttime construction from Pearl Highlands to Aloha Stadium.

5.2 Hawaiʻi Department of Transportation (HDOT) Agreements

- **Activities this Month**
  - An MOU concerning DOT additional scope is being reviewed and moved forward for execution.
  - Balanced cantilever construction will require height clearance considerations and waivers from DOT.

- **Look Ahead**
  - Execution of the Airport and City Center Joint Use and Occupancy.

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	KHG, AP & City Center – Temp OH Draft sent to AT&T	12/26/13		Including with Airport
	NTP	5/12/11	12/21/11						
	Amd 01	7/1/11	HRS Ch 104						
AT&T (Government Solutions)	*Executed*			12/26/13	Clarified to N/A	Combined with AT&T Corp	12/26/13		Combined with AT&T Corp
	NTP								
Chevron	*Executed*	12/4/09		11/4/11					
	NTP	12/22/09		11/15/11					
	Amd 01	7/1/11							
Hawaiian Telcom	*Executed*	5/20/10	11/17/14	5/10/12	12/31/14	5/28/15	9/27/13		Draft sent to HTI for review
	NTP	6/14/10	11/18/14						
	Amd 01	7/1/11		4/13/15		Drafted for additional scope and HRS Ch 104			
	Amd 02	5/10/12							
	Executed								Temp OH Draft sent to HTI for review
	NTP								
HECO	*Executed*	4/20/12 Agreement superseded by Design & Construction Services Agreements - CLOSED		7/12/12 Agreement superseded by Design & Construction Services Agreements - CLOSED			Airport (2 of 2) and City Center Bridging Agreements superseded by Design Services Agreements - CLOSED.		
	NTP								
		Pre-Construction - CLOSED		Pre-Construction – CLOSED					
	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	HECO draft under review	11/25/13	HECO revision to include Temp Poles
	NTP	11/20/13	11/29/13	11/20/13	11/29/13	11/20/13		11/25/13	
	Amd 01								
	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)				11/10/15 - Dillingham Blvd Materials			
		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 OTWC for review
	NTP	12/22/09					4/4/13		
	Amd 01	7/1/11	2/27/14		HRS Ch 104	HRS Ch 104			
	Amd 02	10/7/13	HRS Ch 104						
	Executed								Temp OH Draft sent to OTWC for review
	NTP								
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						

Utility Agreements Status Matrix

Utility Owner	Status	WOFH		KHG		Airport	City Center	
		ESA	UCA	ESA	UCA	UCA	COMBINED ESA	UCA
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		Drafted for add'l 4" line relocation in median and HRS Ch 104		10/23/15			
	Amd 03				HRS Ch 104			
Level 3/TW telecom	*Executed*	12/2/09		2/14/12	Oceanic to relocate for TW telecom		10/11/12	Draft sent to TW telecom - includes Temp OH
	NTP	12/22/09		2/16/12				
	Amd 01	7/1/11						
	Amd 02							
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; = Not applicable

COR = Corporation Counsel
ESA = Engineering Services Agreement
UCA = Utility Construction Agreement
UFRCRA = 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.
  - Execute AT&T City Center UCA.

HECO

- **Davis-Bacon requirements –** HECO has an established collective bargaining agreement – which does not align with Davis-Bacon requirements – for which HART on behalf of HECO has submitted a conformance request to the U.S. 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 un-used location near the MSF area may be suitable for this facility. HECO is investigating a 'system' substation, which would also feed other customers in 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 has completed a pole-by pole review of the current overhead 138kV and 46kV pole and line locations for WOFH and KHG and have identified areas where alternative access may be used for future pole and line maintenance. HART's Task Force is currently meeting weekly with HECO to identify and analyze all potential solutions to the working clearance issue.

- ***Alternative Equipment*** –HECO has stated that the Bronto will not completely resolve the horizontal working clearance issue. HECO and HART are now researching with other equipment manufacturers to see if there is equipment that can work with less than the desired working clearance requirements.

- **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 Feb. 11, 2016)

BUDGET

	Baseline Budget	Expended	Remaining Budget Balance	Estimate to Completion	Forecast Variance
Acquisition	$ 201.70	$ 86.30	$ 115.40	$ 102.30	$ 13.10
Relocation	$ 20.50	$ 10.40	$ 10.10	$ 16.10	$ (6.00)
Total (Million)	$ 222.20	$ 96.70	$ 125.50	$ 118.40	$ 7.10

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)]

	(a) Current No. of Parcels Needed	Appraisals In Process	(b) Appraisals Completed	(c) Letters of Offer Sent	(c) Offers Accepted	Possession Granted For Condemnation	Agreements Completed	Site Control Obtained	Relocations Completed	Properties Available for Contractor	(d) Acquisitions Completed
Full Acquisition											
W.Oahu\Farrington	16		14	14	13	1	2	16	13	16	15
Kamehameha	3		3	3	3			3	1	3	3
Airport	6		5	6	5	1		6	3	4	5
City Center	18		16	16	16			16	14	16	16
TOTAL	*43*		*38*	*39*	*37*	*2*	*2*	*41*	*31*	*39*	*39*
Partial Acquisition											
W.Oahu\Farrington	3		2	2	2			3		3	2
Kamehameha	4		3	3	2	1		3		3	1
Airport	10		4	4	1		1	7		4	1
City Center	79		67	68	30	2		12		3	7
TOTAL	*96*		*76*	*77*	*35*	*3*	*1*	*25*		*13*	*11*
Easement											
W.Oahu\Farrington	16		1	1	1		6	16		15	7
Kamehameha	6						1	6		6	1
Airport	34		8	7	1		4	28		27	4
City Center	28		21	20	2		1	1		1	1
TOTAL	*84*		*30*	*28*	*4*		*12*	*51*		*49*	*13*
GRAND TOTAL	*223*		*144*	*144*	*76*	*5*	*15*	*117*	*31*	*101*	*63*

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

Footnotes:
(a) 'Current No. of Parcels Needed' includes 146 privately-owned parcels and 77 government-owned parcels.
(b) 'Appraisals Completed' primarily includes appraisals for privately-owned parcels.
(c) Offers primarily include privately-owned parcels.
(d) 'Acquisitions Completed' includes 48 privately-owned parcels, and 15 'Agreements Completed' for the transfer or joint use of government-owned parcels.

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.
- Look Ahead:
  - In order to support the relocation of utility easements in the Kamehameha section, eminent domain proceedings was initiated for one case, and the City Council approved eminent domain. However, a settlement was reached with the private property owner and escrow is expected to open soon.

AIRPORT

- Issues:
  - Continuing negotiations with TMK 1-1-002-001.
  - Closely monitoring the mapping process for Airport Station and for utility easements.
  - Design change pending for TMKs 1-5-015-010, 1-2-013-020 and 1-2-013-021.
  - In order to support the upcoming procurement for the Airport Guideway and Stations Design Build contract, eminent domain proceedings were initiated and the Honolulu City Council approved eminent domain. However, negotiations are still continuing with all private property owners in the Airport section in an attempt to reach mutual agreement. The status of these cases are:
    - 2 Acquired
    - 1 Order of Possession obtained
    - 3 In escrow
    - 5 In negotiations
- Look Ahead:
  - Working towards completing Airport agreements and acquisition of TMK 1-1-002-001.
  - A settlement was reached for one eminent domain case so escrow is expected to open soon.
  - Evaluate and address the need to advance additional recommendations for eminent domain to achieve the Project's schedule.

CITY CENTER

- Issues:
  - Continuing to place priority on obtaining site control and acquiring parcels in the Dillingham section.
  - Supporting negotiations with UH Honolulu Community College to secure construction right of entry for the City Center guideway.
  - Working to resolve issues with TMKs 2-3-039-017, 1-5-007-016, 2-3-003-000, 1-2-009-011 and 1-2-009-098.
  - Negotiating with the owner of fifteen parcels which have complex issues, as well as TMKs 2-1-031-030, 1-2-003-006, 2-3-007-027 and 2-3-002-069.
  - In order to support the upcoming procurement for the City Center Guideway and Stations DB contract, eminent domain proceedings were initiated and the Honolulu City Council approved eminent domain for most of the cases. However, negotiations are continuing with all private property owners in the City Center section in an attempt to reach mutual agreement. The status of these cases are:
    - 2 Obtained by Order of Possession
    - 5 Acquired
    - 5 In escrow
    - 16 In negotiations
    - 2 Rejected by the Honolulu City Council
    - 1 Withdrawn due to design changes
- Look Ahead:
  - A settlement was reached for one eminent domain case so escrow is expected to open soon.
  - Evaluate and address the need to advance additional recommendations for eminent domain to achieve the Project's schedule.
  - Closely monitor the acquisitions in relation to construction schedules for City Center.
  - HART has received a counteroffer with contingencies from an owner of thirteen parcels, which is being addressed.

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	55	23	53
Grand Total:	***34***	***89***	***1***	***124***	***52***	***80***	***34***	***89***

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:
  - Ongoing relocation for TMKs 1-1-016-006 and 1-1-016-016.
- Look Ahead:
  - Monitoring relocations of several commercial tenants.

CITY CENTER

- Issue:
  - Continuing negotiations with TMK 2-3-002-059.
  - Relocation underway for TMKs 1-5-008-020, 2-3-007-039 and 2-3-007-045.
- Look Ahead:
  - Planning and monitoring the 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	Being reviewed by Corporation Counsel.
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	September 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	Executed		WOFH	Consent to construct in place to be followed by execution of the UH Master Agreement.

Third-Party Agreements				
Agreement	Status	Target	Section	Notes/Remarks
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 to be followed by execution of the UH Master Agreement.
UH - Leeward Community College (LCC) Construction Right of Entry for Station	Executed		WOFH	Consent to construct in place to be followed by execution of the UH Master Agreement.
UH - Urban Gardens Pre-Construction Right of Entry	Executed		KHG	Consent to construct in place.
UH - Urban Gardens Construction Right of Entry	Executed		KHG	Consent to construct in place to be followed by execution of the UH Master Agreement.
UH - Urban Gardens 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 Guideway & Station	Pending	September 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 to be followed by execution of the easement agreement.
DLNR – Kapolei Easement	Pending	April 2016	WOFH	Easement agreement in process.
DLNR – Keehi Lagoon Right of Entry	Executed		Airport	Consent to construct in place to be followed by execution of the easement agreement.
DLNR – Keehi Lagoon Easement	Pending	April 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 (for Kiewit)	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 to be followed by execution of the easement agreement.
Aloha Stadium / Department of Accounting & General Services (DAGS) Easement for guideway	Pending	July 2016	KHG	Easement Agreement in process.
Aloha Stadium / Department of Accounting & General Services (DAGS) Right of Entry for station park and ride	Pending	April 2016	KHG	In negotiations.
Aloha Stadium / Department of Accounting & General Services (DAGS) Easement for station park and ride	Pending	July 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.

Third-Party Agreements				
Agreement	Status	Target	Section	Notes/Remarks
HDOT(A) – Dept. of Transportation Airports Joint Use & Occupancy (JU&O) Sub-agreement for Airport leased/revenue parcels	Pending	April 2016	Airport	Sub-agreement in process for leased/revenue parcels.
HDOT(A) - Joint Use & Occupancy (JU&O) Sub-agreement	Pending	April 2016	City Center	Sub-agreement in process for leased/revenue parcels.
HDOT(A) - Easement Agreement for Airport Division parcel	Pending	April 2016	Airport	Process Easement Agreement.
HDOT(Har) – Dept. of Transportation Harbors Easement Agreement	Pending	May 2016	City Center	In process.
HDOT(Har) – Right of Entry	Pending	May 2016	City Center	In process.
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 Community Correctional Center Agreement, Dillingham Blvd.	Pending	April 2016	City Center	Finalizing requirements.
HCDA -HI Community Development Agreement	Pending	September 2016	City Center	Coordination is ongoing.
DAGS – Dept. of Accounting & General Services / HHFDC Right of Entry	Pending	May 2016	City Center	Consent to construct in process to be followed by execution of the Easement Agreement.
DAGS – Dept. of Accounting & General Services / HHFDC Easement	Pending	May 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	April 2016	WOFH, KHG, Airport	Land court documents processed and awaiting recordation and filing.
U.S. Navy Pearl Harbor Station Acquisition of Fee Transfer	Adopted	April 2016	Airport	Congressional approval received and immediate access is granted. Conveyance documents are in process.
U.S. Post Office Honolulu Processing Center acquisition	Pending	July 2016	Airport	In negotiations.
U.S. Gov't/GSA/Federal Courthouse Agreement & Landscape Plan	Pending	September 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 to be followed by execution of the easement agreement.
D.R. Horton Final Easement Agreement	Pending	January 2018	WOFH	Easement Agreement in process and subject to owner's development plans.

6 MANAGEMENT AND ADMINISTRATIVE UPDATES

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

OVERVIEW

- **S&S Certification Program Key Components**
  - Certification documents: See status chart in Section 6.1
  - Design Criteria Conformance Checklists (DCCC) development and verification: See status chart in Section 6.1
  - Civil – Construction Specification Conformance Checklist (CSCC) development/verification: See status chart in Section 6.1
  - Core Systems – Specification/Testing Conform Checklist (STCC) development/verification: See status chart in Section 6.1
  - Base Operational Readiness Conformance Checklists (ORCC): See status chart in Section 6.1
  - PHAs and Core Systems SSHAs/O&SHAs: See Certification Documents 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 status change
  - Interim Certification Requirements and Verification Status: See status chart in Section 6.1
    - Coordination is underway to issue an Interim Certification Certificate for the Delivery of PV-001, partial occupancy of the MSF OSB, track M-5, MSF ORCC, and MOW vehicles support in March 2016.
  - Key S&S Certification related meetings held in February 2016:
    - Safety and Security Certification Working Group (SSCWG) meeting: 2/2/2016
    - Fire Life Safety Working Group (FLSWG) meeting: 02/09/2016
    - PMOC monthly review meeting: 02/09-10/2016
    - Interim Certification Working Group (ICWG) meeting: 2/18/2016
    - Safety and Security Review Committee Meeting: 02/24/2016
    - Bi-weekly and/or monthly project coordination meetings with Core Systems, MSF, WOFH and KHG
    - HART Safety and Security weekly meeting with HDOT
- **The SSRC approved the following certification documents on 02/24/2016:**
  - MSF OSB Draft Interim Certification Checklist
  - ORCC MSF/OSB Draft Interim Certification Checklist
  - PV-001 Delivery Draft Interim Certification Certificate - Example
  - MSF/Rail Yard and Track PHAs
  - Vehicle/ATC SSHA and O&SHA (2-HAs)
  - UPS O&SHA
  - FDAS O&SHA
- **S&S Certification Certificates Issued to Date and 12 month Milestones:** See status chart in Section 6.1
  - The Interim Certification Certificate for the 3 MOW vehicles delivery and MSF Tracks M7/M1 was issued, signed on 2/4/2016, and SSRC accepted on 2/24/2016.
- **Construction Safety and Security:** 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 Compendium of Design Criteria (CDC) requirement must be approved and signed off by the RE's prior to HART Safety and Security acceptance.
- DB and DBOM contracts pose a significant challenge for the certification process where 100% design verification is not realized until sometime during or at the end of the construction phase. This delay is not consistent from one contract to another and is based on the complexity of the designs and contract submittal requirements.
- The specification and testing conformance checklist verification effort (% verified) will naturally lag behind construction completion percentage due to the fact that a significant percentage of the needed submittals are submitted at the end of the project; such as test reports, O&M manuals, training, and as-built drawings.
- Safety and Security is presently lacking one (1) position (Safety Specialist, OSHA). 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 internally and on existing contracts.
- Overall quality of the Project is good.
- There are two (2) major NCRs on the WOFH contract. One (1) new major NCR (509) regarding a failed Tendon T1L on Span 258 was reported during the month, which is described in detail in the Key Issues portion of Section 6.2.
- There are two (2) NCRs on the KHG contract. One new (1) major NCR (113) is regarding a damaged right flange of Segment 14 of Span 276 during the month, which is described in detail in the Key issues portion on Section 6.2.
- Continue verifying PGH Wong's (CE&I West) responses to the audit findings for WOFH, KHG, MSF and EE contracts.
- Continue reviewing AHJV's responses to the audit findings for the Core System Configuration Management Plan.
- Performed Joint (KKJV, AHJV and HART) Final Walkdown of Phase 3 Tracks (M1-M7) at the MSF Yard West of the Operations and Servicing Building (OSB) and Wheel Truing Building (WTB). A HART Punchlist was issued to KKJV for correction and completion.
- Performed QA Audit of L+E on the CSS contract on Feb. 9, 2016. The audit report and closeout letter was issued on Feb. 19, 2016.
- WOFH: Span 17 (NCR 314) repair was completed on Feb. 12, 2016. Therefore, NCR 314 is considered closed.

KEY ISSUES

- WOFH: Erection and finishing of spans (12-segments) and installation of permanent "shear keys" between the guideway columns and both ends of the spans.
- KHG: Erection of spans (12/14- segments) and construction of drilled shafts, columns, and segments at the Casting Facility.
- Resolution of two (2) major WOFH NCRs: replacement of failed Tendon T1L on Span 258 and Direct Fixation Shims Tolerances.
- Resolution of two (2) major KHG NCRs: Drilled Shafts (Cross Hole Sonic Logging [CSL] Reports) quality and repairs, and repair of damaged right flange of Segment 14 (Span 276).
- 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 the 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 at Hitachi Rail Italy facility in Pittsburg, CA.
- Pre-shipment, Inspection & Testing (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

- On Feb. 8, 2016, HART submitted a request for waiver of Buy America requirements for the variable refrigerant flow (VRF) HVAC system for the train control and communications rooms at the stations.

Disadvantaged Business Enterprise (Section 6.4)

OVERVIEW

- $32,092,244 = total dollar participation for all DBEs on all HART contracts from 9/24/07 to 2/29/16.

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 Post-Record of Decision (Post-ROD) documentation of project design refinements and needs.

Risk Management (Section 6.6)

OVERVIEW

- There are a total of 135 risks in the February 2016 Risk Register, compared to 192 a year ago. There were 4 risks deleted, 2 new risks added, and 1 risk transferred for the month. During the month, risk reviews were focused on the Program Wide departments and conducted for Core Systems, Change Management, Environmental & Permits, Traffic/Utilities, Elevator/Escalator, Safety & Security, and Right-Of-Way.

KEY ISSUES

- HECO Clearance requirements will have significant cost impacts on the Airport Guideway and Stations (AGS) and City Center Guideway and Stations (CCGS) contracts, specifically along Kamehameha Highway near Joint Base Pearl Harbor and along the Dillingham Blvd. portion of City Center.
- HECO Clearance issues on the west side are being studied with HECO to try and resolve by the most cost effective means.
- Delay in the approval for the GET extension has delayed the issuance of the City Center Guideway and Stations package. Originally anticipated to be sent to Priority Listed Offerors in late December 2015, the actual issuance date was Feb. 2, 2016. This is likely to have an impact on the completion of the east side contracts.
- The MSF is progressing toward completion in early May 2016. The site will be ready to accommodate vehicle delivery in late March.

Community Outreach (Section 6.7)

OVERVIEW

- HART continues its business outreach programs with feedback from local businesses. HART's Shop and Dine on the Line program and its new Shop, Dine & Shuttle program, the free shuttle service designed to assist local businesses along the rail route through construction, continue to be updated and promoted.
- HART's outreach team participated in several presentations, meetings and events this month, including meetings with business and community groups.

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 80 public inquiries this month. Inquiries were related to traffic, construction and business outreach programs.
- Business impact mitigation remains a priority for HART's outreach team. Canvassing and meetings with businesses and stakeholders in the urban core also continued this month in preparation for construction there.

Staffing (Section 6.8)

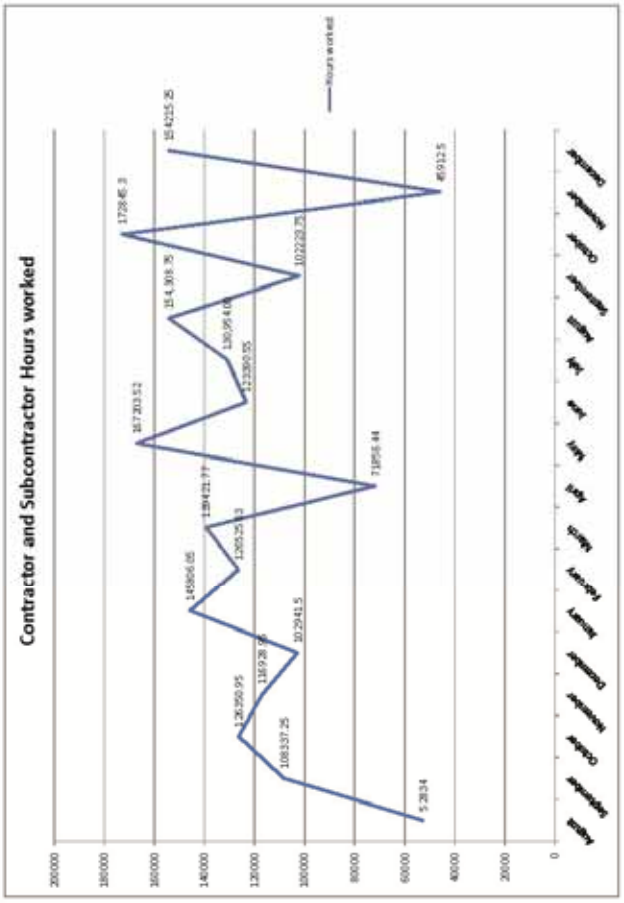
OVERVIEW

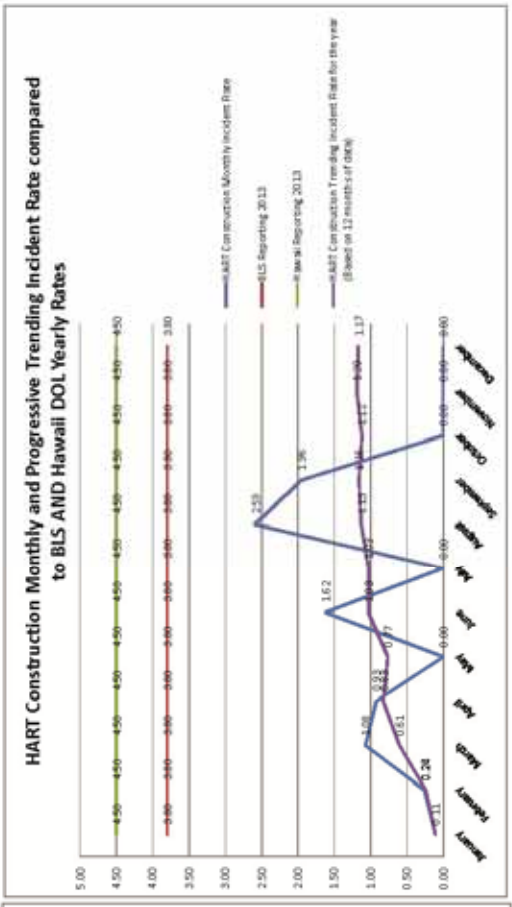
- The Director of Communications position interviews will be conducted the first week of March.
- The Chief Financial Officer position interviews are being scheduled.
- The Procurement and Specifications Specialist position was filled in February.
- The Human Resources Specialist in Civil Rights has been selected.
- The Deputy Director of Construction left the project and the need for a replacement is currently being evaluated.
- HART prioritizes filling all vacancies with City employees and supplements the City staff with PMC when required and appropriate.

KEY ISSUES

- The current organizational chart is dated Dec. 11, 2015, and will be updated to reflect personnel changes when key positions have been filled.

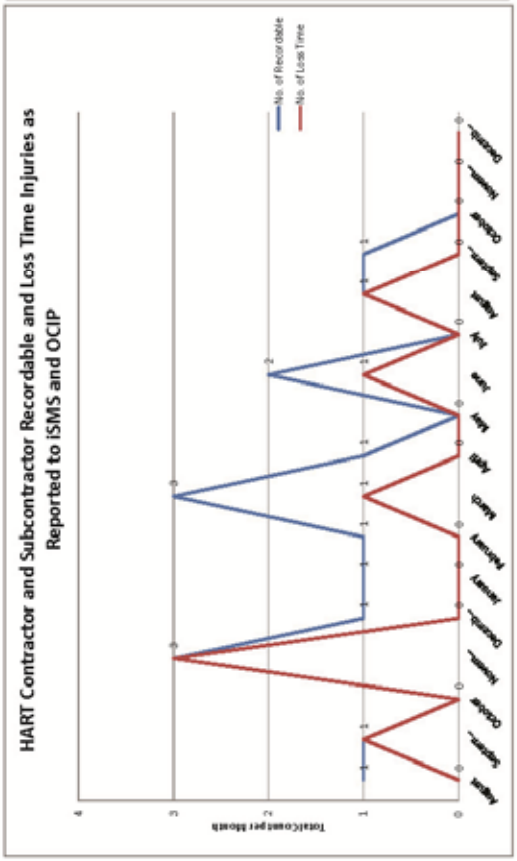
6.1 Safety and Security





	2014				2015			
	Hours worked	No. of Recordable	No. of Loss Time		Hours worked	No. of Recordable	No. of Loss Time	
January					145806.05	1	0	
February					126525.63	1	0	
March					139421.77	3	1	
April					71856.44	1	0	
May					167203.52	0	0	
June					123,390.52	2	1	
July					130954.03	0	0	
August	52834	1	0		154380.7	1	1	
September	108337.25	1	0		102223.75	1	0	
October	126350.95	0	0		172845.3	0	0	
November	116928.95	3	3		45912.5	0	0	
December	102941.5	1	0		154215.25	0	0	
Total	507392.85	6	4		1534785.48	10	3	

Work Hours for WKOFH, 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 Jan. 31, 2016-Feb. 25, 2016	Loss Type	Date	Event Description
Environment	15	0			
Loss or Damage	35	2	a)Minor Loss b)Unknown Loss	a) 2/10/16 b) 2/15/16	a) WOFH: Loader and haul truck reversed into each other. b) WOFH: Part of the BCS Traveler fell from guideway during a move.
*Reportable Occupational Injury/Illness	0	0			
Security	57	0			
**Loss Time Occupational Injury/Illness	6	0			
Road/Vehicle - Driving	84	0			
Service Strike	78	4	a) Minor Damage b) Minor Damage c) Minor Damage d) Minor Damage	a)2/1/16 b) 2/2/16 c) 2/11/16 d) 2/19/16	a) AU: Unmarked utility struck during excavation. b) WOFH: 2" water line damaged by backhoe. c) AU: An unknown concrete jacket was struck while excavating. D)AU: Drain line struck while excavating.
*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 6 Months Status*						
"Open Items" - Design/Construction and Verification Issues						
Month – 2015, 2016	Total #	Total # Open	Total # Closed	% Closed Overall	# closed In Month	% Closed In Month
September	**154**	88	67	**44%**	1	1%
October	**193**	85	108	**56%**	41	18%
November	**205**	55	150	**73%**	44	21%
December	**205**	48	157	**77%**	07	3%
January	**211**	41	170	**81%**	12	19%
February	**215**	30	185	**86%**	15	7%

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

Key HART S&S Certification Documents *Update & Approval Status*			
S&S Project Plans, PHAs, Core Systems SSHA and O&SHA, and TVA			
Documents	Revision #	Date Approved	Comments
Safety and Security Management Plan (SSMP)	Rev 5	10/16/2015	SSMP signed
Safety and Security Certification Plan (SSCP)	Rev 4.B	12/14/2015	SSCP signed
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	12/15/2015	SSI plan signed
Project Preliminary Hazard Analysis (PHAs)	Rev 2.A		Rev 2A – DRAFT annual update completed 9/3/2015
- MSF – Yard and Shop	Rev 2.A	2/24/2016	SSRC approved
- Alignment	Rev 2.A	-	Pending March 2016 SSRC approval
- Tracks	Rev 2.A	2/24/2016	SSRC approved
- Stations	Rev 2.A	-	Pending March 2016 SSRC approval
- 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 F	-	2/8/2016 - Under HART Review
- Technologies PHAs	Rev C	-	10/29/2015 – CSC Revise & Re-submit (R&R)
- Central ATC O&SHA	Rev C	9/23/2015	SSRC approved
- Wayside ATC SSHA	Rev B	-	11/14/2014 – CSC 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 E	-	HART Accepted 2/9/2016 – Ready for SSCWG review
- 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	2/24/2016	SSRC approved
- Vehicle/ATC O&SHA	Rev F	2/24/2016	SSRC approved
- 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 B	-	2/2/2016 – Under HART Review
- PSGS SSHA	Rev B	-	10/05/2015 – CSC R&R
- UPS O&SHA	Rev C	2/24/2016	SSRC approved
- Communications SSHA	Rev B	-	01/7/2016 – CSC R&R
- Communications O&SHA	Rec C	-	1/27/2016 – CSC R&R
- FDAS SSHA	Rev C	-	2/8/2016 - Under HART Review
- FDAS O&SHA	Rev B	2/24/2016	SSRC approved
- MOW Support Vehicles O&SHA	Rev A	-	Under development
Project Threat & Vulnerability Assessments (TVAs)	Rev 1	1/16/2015	On hold pending contract restructure & re-design

S & S Design Criteria Conformance Checklist (DCCC) Civil and Core Systems Contracts Verification Status						
Design Phase				Construction / Installation /Testing		
Contracts: FD, DB, DBOM	% Verified	+ / - % Change	Comments: Design SSRC Approval Date	% Verified	+ / - % Change	Comments: C/I/T SSRC Approval Date
Civil Contracts Under Construction						
FD-430, Airport Section 7-Piers	100%	N/A	6/17/2015	100%	N/A	8/26/2015
Yard Control Bungalow (YCB) CSC - Civil	48%	-	DCCC under review			
DB-200, MSF	96%	-	1/28/2015	21%		Verification underway
FD-430, Airport Utilities	100%	N/A	6/25/2014	51%		Verification underway
DB-120, WOFH Guideway - 38 total – Sub CEL/CIL Packages	99%	-	35 Sub - CELs/CILs SSRC approved	38%		Verification underway
DB-320, KHG Guideway - 40 total – Sub CEL/CIL Packages	98%		36 - Sub CELs/CILs, SSRC approved	7%		Verification underway
FD-140, West Oahu Station Group	99%	-	3 stations 12/09/2015			
Construction Contracts Awarded - Not Yet Started						
FD-340, H2R2 Ramps	100%	N/A	5/27/2015			
FD-240, Farrington Hwy Station Group	100%	+1%	3- station- 12/09/2015			
FD-340, Kamehameha Highway Station Grp	100%	N/A	3 Stations – 8/26/2015			
MI-930, Elevators & Escalators (Stations)	-	-	Base DCCC 8/26/15			
Civil Contracts Under Design / in Pre-bidding or Pre-award Phases						
FD-530, City Center Utilities	-	-	On hold – re-designing			
AP00 Art-in-Transit, 23 artists/contracts	-	-	Base DCCC under review			
DB-275, Pearl Highlands PS/BTC	-	-	Base DCCC under review			
FD-600, West O'ahu Park & Ride	-	-	Base DCCC under review			
DB-450, AG & Stations Group	-	-	2016 Redesign			
DB-550, CCG & Stations Group	-	-	2016 Redesign			
DBOM-920 Core Systems Contracts Under Procurement - Production - Manufacture - Installation						
DBOM-920, Core Systems						
- Passenger Vehicles (PV)	-	-	Designer input underway			
- Traction Electrification System (TES)	90%	+90%	Verification underway			
- MOW Vehicles	-	-	Designer input underway			
DBOM-920 Core Systems Contracts Under Design						
DBOM-920, Core Systems						
- Communication System	-	-	Designer input underway			
- Fire Detection Alarm System (FDAS)	-	-	Designer input underway			
- Train Control System (TCS)	-	-	Designer input underway			
- SCADA	-	-	Designer input underway			
- Platform Screen Gate System (PSGS)	-	-	Designer input underway			

S & S Construction Specification Conformance Checklists (CSCC) Civil - Contracts Verification Status			
Construction - Installation – Start-up & Testing Phases			
Contracts	% Verified	+ / - % Change	Comments
Civil Contracts Under Construction			
DBB-525, Airport Section, 7 - Drilled Shafts	100%	N/A	8/26/2015 SSRC approved –Certification Completed
Yard Control Bungalow (YCB) CSC Civil - Contract	17%	-	Base CSCC not yet SSRC approved, verification underway
DB-200, MSF and Rail Yard	41%	+1%	Verification underway
DBB-505, Airport Utilities - Construction	57%	+1%	Verification underway
DB-120, WOFH Guideway	53%	+3%	Verification underway
DB-320, KHG Guideway	16%	5%	Verification underway
DBB-171, West O'ahu Station Group	-	-	Draft Base CSCC scheduled for Mar SSRC review
Construction Contracts Awarded – Not Yet Started – No Verification Effort			
DBB-385, Ramp H2R2	-	-	Base CSCC - SSRC approved, 5-27-2015
DBB-271, Farrington Hwy Station Group	-	-	Base CSCC - SSRC approved, 7/22/2015
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 Pre-bidding or Pre-award Phases			
DBB-371, Kamehameha Hwy Stations Grp	-	-	Draft Base CSCC scheduled for Mar SSRC review
MI-930, Elevators & Escalators, AP/CC Stations	-	-	Base CSCC - SSRC approved 8/26/2015
AP00 Art-in-Transit, 23 Artists/contracts	-	-	Draft Base CSCC under review
DBB-511, Dillingham Utilities & Road Widening	-	-	Draft Base CSCC under review – Related to FD-530, C&C Utilities
DB-275, Pearl Highlands PS/ Bus Transit Center	-	-	TBD
MI-900 Fare Collection System	-	-	Draft Base CSCC under review
DBB-600, West O'ahu Park & Ride	-	-	TBD
DB-450, AG & Stations Group	-	-	On hold pending re-design
DB-550, CCG & Stations Group	-	-	On hold pending re-design

S & S Specification/Testing Conformance Checklists (STCC) Core Systems - Contracts Verification Status			
Procurement - Production - Manufacture - Installation - Start-up & Testing Phases			
Contracts	% Verified	+ / - % Change	Comments
DBOM-920 Core System Contracts under Procurement - Production - Manufacture - Installation - STCC			
MOW Vehicles	27%	+11%	Base STCC SSRC approved 2/24/16, verification underway
Passenger Vehicles/Cars			
1) General Requirements – Applies to all PVs	2%	-	Verification in process
2) PV-001- Interim Cert – for Dynamic Testing	-	-	Verification on hold pending truck design resolution
3) PV-002- Interim Cert – for Dynamic Testing	-	-	PV-002 – primary testing vehicle
4) Train/4-PV Cert for Pre-revenue Service	-	-	Draft Base STCC under development
Traction Electrification System (TES)	-	-	
1) General Requirements – Project Wide	26%	-	Draft base STCC under review, verification underway
2) MSF – Rail Yard	25%	-	Draft base STCC under review, verification underway
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
Operational Requirements			
- Operational Readiness Conformance Checklists	6%	+1%	Base ORCC - SSRC approved 12/09/2015, verification underway
DBOM-920 Core Systems Contracts Under Design- STCC			
- System Integration Testing (SIT)	-	-	Draft base STCCs updated & under review – 5 - STCCs
- Traction Power Generators Back-up System	-	-	Draft base STCCs under review
- Communication Systems	-	-	Draft base STCCs under review – 5 - STCCs
- Fire Detection Alarm System (FDAS)	-	-	Base STCCs under development
- Train Control System (TCS)	-	-	Base STCCs under development
- Supervisory Control & Data Acquisition (SCADA)	-	-	Base STCCs under development
- Platform Screen Gate System (PSGS)	-	-	Base STCCs under development

Interim Certification - Verification Status			
Construction - Installation – Start-up & Testing Phases			
Contracts	% Verified	+ / - % Change	Comments
Interim Certification Requirements			
1. PV-001 Delivery – OSB, M-5 Track, ORCC	38%	+38%	OSB/IT,ORCC Interim Checklists SSRC approved 2/24/2016
2. MOW Building Early Occupancy	22%	+22%	New requirement – Checklist under review
3. Five (5) – MOW Vehicles Delivery (Vehicles only)	70%	+70%	SSRC approved checklist – 1/27/2016
4. Test Track – Rail Yard, TES/IT/ORCC/PV-002/ WOFH	-	-	IC checklists under Review – March 2016 SSRC approval
5. PV-002 Delivery – vehicle only	-	-	PV-002 IC checklist SSRC approved 1/27/2016
6. Functional Track – WOFH, PV-002, TES, ORCC, & IT	-	-	Interim Cert checklists under development

S & S Certification Certificates Issued to Date and 12 Month Projected Milestones		
Certification Certificates Issued to Date	***Date Signed***	***Comments***
FD-430 / DBB-525 Airport 7-Piers Certifiable Element *"Guideway"* Cert Certificate	**9/21/2015**	None – No open Items
Three (3) – MOW Vehicles Delivery & MSF M-7,M-1 –Tracks – Interim Cert Certificate	**2/4/2016**	None – No open items
Projected Certification Milestones next 12 Months	***Milestones***	***Comments***
1. PV-001 Delivery – Interim Certification (Hard Interim Certification Dates)	**3/22-23/2016** **3/28-29/2016**	PV-001 (2-cars) PV-001 (2-cars)
2. MOW Building Occupancy Prior to Substantial Completion – Interim Certification	**April/May**	
3. YCB Civil Contract CSC Certification	**May 2016**	Civil only
4. DB-200, MSF Contract Certification	**May 2016**	Civil only
5. Five (5) MOW Vehicles Delivery – Interim Certification	**May 2016**	
6. PV-002 Delivery – Interim Certification	**Aug 2016**	
7. Eight (8) MOW Vehicles Final Certification	**Sept 2016**	
8. DB-120, WOFH Guideway Contract Certification	**Sept 2016**	Civil only
9. FD-430 and DBB-505, Airport Utilities Contract Certification	**Sept 2016**	Civil only
10. Test Track - Rail Yard – Interim Certification	**Sept 2016**	
11. PV-002, Interim Certification to enter Dynamic Testing	**Sept 2016**	Vehicle only
12. Functional Track – Interim Certification – Test Track	**Nov 2016**	
13. FD-340 and DBB-385, H2R2 Contract Certification	**Dec 2016**	Civil only
14. PV-001, Interim Certification to enter Dynamic Testing	**On Hold - TBD**	

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 internally and on existing contracts.
  - 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 QAPs: ASTS (Hitachi), Hitachi Rail Italy, and Hitachi Rail USA.
  - 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: CSC/MSF (delivery and off-loading of first train set); KHG Span Setting, and FHSG (Site Work).
  - Performed Joint (HART, KKJV, AHJV) Final Walkdown of Phase 3 Tracks (M1-M7) at the MSF Yard. A Punchlist was created and issued to KKJV by HART for correction and completion.
  - Prepared Management System Audits (QA, Environmental and Buy America) Schedule for 2016 as shown on the following pages:

HONOLULU AUTHORITY for RAPID TRANSPORTATION

COMBINED MANAGEMENT SYSTEM AUDIT SCHEDULE

YEAR: 2016 Rev 1

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-1400049	CSC Support Services	L + E	16-001 QA	2/9 - 2/10	2/9/16	2/19/16
CH-HRT-10HO449	Maintenance and Storage Facility Design-Build (MSF)	KKJV - HI	16-002 QA/BA/E	3/15 - 3/17		
CT-HRT-1200106	Core Systems Contract (CSC) & Hitachi Rail Design-Build-Operate-Maintain	Hitachi Rail USA	16-003 QA	5/3 -5/5		
CT-HRT-10HO137	West O'ahu/Farrington Highway Guideway Design-Build (WOFH)	KIWC - HI	16-004 QA/BA/E	4/12 - 4/14		
CT-HRT-11HO195	Kamehameha Highway Guideway Design-Build (KHG)					
SC-HRT-1400027	General Engineering Consultant (GEC 3)	CH2M Hill	16-005 QA	5/10 - 512		
CT-HRT-1200106	Core Systems Contract (CSC)	AHJV - HI	16-006 QA	5/24 - 5/26		
CR-HRT-1500309	H2R2 Ramp Construction	Royal Contracting	16-007 QA/BA/E	6/28 - 6/30		
CT-HRT-11HO195	KHG Casting Facility	KIWC - HI	16-008 QA/BA	7/19 - 7/21		
CR-HRT-1500503	West Oahu Station Group Construction	NAN, Inc	16-009 QA/BA/E	7/26 - 7/28		
CT-HRT-1500236	Farrington Hi-way Station Group Construction FHSG	Hawaiian Dredging	16-010 QA/BA/E	8/09 - 8/11		
CT-HRT-11HO195	WOFH and KHG Surveying and Alignments	KIWC - HI	16-011 QA	8/16 - 8/18		
CT-HRT-10HO137						
SC-HRT-14000323	Airport Section Utilities Construction	NAN, Inc	16-012 QA/BA/E	8/30 - 8/31		
DB -	Airport Guideway and Station (Design)	TBD	16-013 QA	9/13 - 9/15		
DB-	City Center Guideway and Station (Design)	TBD	16-014 QA	9/27 - 9/29		
CT-HRT-1300318	Elevator and Escalator - Manufacture, Install and Maintain	US Schindler - HI	16-015 QA/BA	10/4 - 10/6		
		US Schindler - NJ				

Qaulity Assurance (QA); Buy America (BA); Environmental (E); Safety Security (SS)

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HONOLULU AUTHORITY for RAPID TRANSPORTATION

COMBINED MANAGEMENT SYSTEM AUDIT SCHEDULE

YEAR: 2016 Rev 1

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-10H0137	WOFH Public Information	KIWC - HI	16-016 QA	10/18 - 10/20		
CT-HRT-11HO195	KHG Public Information					
SC-HRT-1400050	West Side Station Group CE&I	PGH Wong - HI	16-017 QA	10/25 - 10/27		
	West Oahu Farrington Highway and Kamehameha Highway Guideways CE&I					
	Elevator and Escalator - CE&I					
	Pearl Highlands Parking Structure/Bus Transit Center CE&I					
	UH West O'ahu Park-and-Ride and Ho'opili Station Finishes CE&I					
CT-HRT-1200106	Configuration Management Plan (CMP)	AHJV - HI	16-018 QA	11/3 - 11/14		
DB	Kamehameha Hi-way Station Group Construction	NAN, Inc	16-019 QA/BA/E	11/15 - 11/17		
CCH-100	Honolulu Authority for Rapid Transportation (HART)	HART	16-020 QA/SS	12/06 - 12/13		
SC-HRT-1600008	Airport Section Guideway & Stations CE&I East	Stantec	TBD	TBD		
	City Center Secion Guideway & Stations CE&I East'					
DB-	Pearl Highlands Garage Transit Center and H1R2 Ramp	TBD	TBD	TBD		
DB-	Airport Guideway and Stations (Construction)	TBD	TBD	TBD		
DB-	City Center Guideway and Stations (Construction)	TBD	TBD	TBD		
DB	UH West O'ahu Park-and-Ride and Campus Road "B"	TBD	TBD	TBD		

Qaulity Assurance (QA); Buy America (BA); Environmental (E); Safety Security (SS)

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- **Key Issues**

HART NCR Log		
Total NCRs Issued To Date	CLOSED	OPEN
37 (Audits)	36	1
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 258 – NCR 509:** a few strands of the 12-Strands Tendon T1L installed on Span 258 failed after post-tensioning. KIWC is preparing a Remediation Plan to replace the failed Tendon T1L. HART and KIWC will perform a postmortem of the Tendon T1L after its removal to determine the root cause of the failure and the corrective action to prevent recurrence.

      Span 258 is a heavy curve span with a spiral surface profile, 4 inches eccentric from the center of gravity, and about 50 feet above ground. The span must be supported and stabilized prior to remediation work. The failed tendon is on the top and on the Mauka side of the span. Therefore, the entire span needs to be jacked-up about three feet to clear the tendon and provide adequate space for removal and replacement work.
    - **Direct Fixation Shims Tolerances – NCR 398:** Some 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 install shims exceeding 9/16 inches at their own risk until the issue is finally resolved. HART is currently reviewing the KIWC NCR Disposition and Corrective Actions.
  - Resolution of two (2) major KHG NCRs that need to be addressed and corrected to prevent recurrence and to mitigate impact to the overall progress of the project. The following are the major NCRs identified:
    - **Drilled Shafts:** To date there are six (6) Open NCRs (closed six) which are related to the CSL Reports, and 121 Drilled Shafts completed (added 12), which indicates that there were no CSL issues encountered lately and the process has improved. The CSL anomalies on the six NCRs open were found to be 10”-24” on top of the shafts, therefore correction/fixing will be quicker and easier.
    - **Span 276 – NCR 113:** Damaged (Crack) at the end and Makai side of Segment 14. The crack is minor compared to cracks found on Span 17 and 67 NCRs. KIWC is preparing a Remediation Plan to repair the crack, which is similar to Span 17.

      Span 276 is the first longer span with 14 Segments erected in the project. KIWC is evaluating the procedure for lowering longer spans as a corrective action to prevent recurrence.
  - Erection and finishing of spans, construction of “shear keys” between columns and spans, and construction of concrete walkways on WOFH and KHG guideways.
  - Resolution of two (2) major WOFH NCRs: replacement of Tendon T1L and Direct Fixation Shims Tolerances.
  - Resolution of two (2) major KHG NCRs: Drilled Shafts (Cross Hole Sonic Logging Reports) quality and repair, and crack on Segment 14 of Span 276.
  - 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 the 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.
  - Perform Joint (HART, KKJV and AHJV) Final Walkdown of Phases 1-5 of the MSF Yard, OSB, WTB, and MOW buildings prior to turnover to CSC.

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.

6.4 Disadvantaged Business Enterprise (DBE)

- **Activities this Month**
  - $32,092,244 = total dollar participation for all DBEs on all HART contracts from 9/24/07 to 2/29/16
    - 6.33% = DBE utilization on total disbursed FTA funds received to date ($32,092,244 divided by $506,844,811)
    - 1.82% = DBE utilization to date on total Project FTA funds ($32,092,244 divided by $1,763,903,901)

Total DBE Participation = $32.1M
(previous report = $31.9M)

Figure 16. DBE Participation this Month

DBE Participation in February		
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
Island Hauling	CT-HRT-10H0449 DB-200	$3,023
LKG-CMC	SC-HRT-1400049 MM-962	$14,287
Dovetail Consulting	MOU-11-SO-1 MM-930	$41,661
TOTAL FOR THE MONTH		**$205,091**

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 the Hawai'i State Historic Preservation Division (SHPD) on Tuesday, Feb. 9, 2016, as part of ongoing consultation with the division.
    - HART's two Makalapa National Register of Historic Places (NRHP) nominations were returned by the Keeper of the National Register in Washington, D.C. with instructions to transmit to the USN Federal Preservation Officer (FPO) and Deputy FPO for comment. The two nominations have been transmitted per the Keeper's directive via certified mail on Feb. 17, 2016.
    - A new roof and additional closure work was completed on Holau Market on Feb. 12, 2016.
    - The new Kāko'o II Programmatic Agreement Manager was introduced to PA Signatory and Consulting Parties via email on Feb. 17, 2016.
  - 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 for the 2040 Oahu Regional Transportation Plan.
    - Continued coordination with stakeholder agencies regarding street tree transplanting and mitigation efforts.
    - HART relocated one (1) Narra Tree and planted three (3) new Queen's Hospital White Shower Trees at Kolowalu Park in Kaka'ako.
    - Staff initiated consultation with Leeward Community College and Waipahu High School regarding a multiuse path and emergency second access along the edge of the Rail Operations Center.

    - Convened the second meeting of the HART Property Utilization Group on Feb. 12, 2016 to determine optimal land use for various HART-owned properties. This group will develop a Property Utilization Plan (PUP).
    - Developed a Request for Information (RFI) document for the construction of the Pearl Highlands Parking Garage for release to public.
  - Sustainability:
    - Developed photovoltaic energy systems cost benefit analysis comparing purchase power agreement versus photovoltaic ownership for energy production at the Rail Operations Center (ROC).

- **Looking Ahead**
  - Ongoing coordination with DTS to ensure consistent planning of seamless bus and rail services focusing on rail's interim opening date.
  - HART will lead a working group on coordinated signage and wayfinding as a part of the monthly HART-OTS-DTS Working Group.
  - Refine and develop bus-rail integration needs for Lagoon Drive, Waimanu Street, and Ala Moana locations.
  - HART's Hawaiian Station Naming Kickoff Meeting was held on Feb. 20, 2016. The Hawaiian Station Naming Committee will develop recommendations on Hawaiian names for each of the 21 rail stations.
  - The next consultation meeting with HART/SHPD is scheduled for March 1, 2016.
  - HART to present purchase power agreement versus photovoltaic ownership evaluation to the HART Board.
  - Continue development of HART's sustainability program.
  - HART to develop Sustainability Focus Group with to-be-identified stakeholders.
  - Attend Kākoʻo Meetings with Programmatic Agreement Signatory and Consulting Parties, if scheduled.
  - Continue coordination with DPP, the State, and HCDA regarding transit-oriented development.
  - Prepare and submit Draft Post-ROD for Emergency Backup Generators to FTA.
  - Prepare and submit Draft Post-ROD for the Airport Casting Yard to FTA.

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 assessment interviews are held on a regular basis 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.

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 measures of avoidance, transfer, and acceptance/minimization.

NOTES OF SIGNIFICANCE

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

AREAS OF FOCUS

A) Market Conditions – The construction market in Hawai'i continues to outpace other major metropolitan US cities. The years 2015 and 2016 are expected to set a new record for construction in the state. This translates to increased escalation of about 1% per month from late 2014 through the end of 2016, according to the Rider Levett Bucknall, Quarterly Construction Cost Report. These conditions may impact the supply of experienced craft labor which will in turn affect contractor productivity rates and traffic mobility issues.

Mitigation Progress:

- HART's continuous improvement in estimating methodology has led to more confidence in the likely construction pricing, but continued pricing pressures in the market could still lead to higher than expected price proposals and bids.
- The combined guideway and station packages on the East (Airport Guideway and Stations contract and City Center Guideway and Stations contract) are still in active procurement.

B) Utilities – Utilities continue to be an issue for the project, as they are for most Transit and Rail projects.

Mitigation Progress:

- Resources to relocate HECO facilities are now keeping up with scheduled requests to resolve utility conflicts through improved coordination efforts between agencies at all levels from project management to executive levels.
- Clearance of HECO overhead facilities and HART Guideway and Stations is undergoing evaluation for site specific solutions with respect to the 138kV, 46kV and 12kV transmission lines. The range of solutions to meet physical separation are extraordinary in cost, requiring further study prior to reaching an agreeable solution that is functional and affordable.

C) Right-of-Way – There are parcels on the east and west segments that are still in an active acquisition process. Lack of site access by the contractors have 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 Progress:

- Nearly all west side property transactions have been accomplished.
- 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 partial property improvement impacts have now been mostly resolved.

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 February 2016								
Current Risk ID	Contract Package	Risk Description	Probability	Prob Rating	Cost Impact	Time Impact	Feb '16 Risk Rating	Jan '16 Risk Rating
36.01	Project Wide	HECO Clearance - Cost & schedule exposure from unanticipated utility replacements. (Ex., overhead 138kV and 46kV circuits may require relocation, including undergrounding).	90%	5	5	5	25	25
111.19	Airport Guideway and Stations	Cost estimates for remaining AGS guideway contract may be low compared to current market conditions.	90%	5	5	4	22.5	22.5
111.06	City Center Guideway & Stations	Cost estimates for remaining CCGS guideway contract may be low compared to current market conditions.	90%	5	5	4	22.5	22.5
111.16	Pearl Highlands Garage	Cost estimates for Parking Structure and Transit Center FFGA Budget may be low compared to current market conditions.	90%	5	5	4	22.5	22.5
68.14	City Center Guideway & Stations	Downtown Station planned to be integrated into Pacific Guardian Center. PGC position could extend negotiations and delay construction or increase construction costs.	90%	5	5	3	20	20
193.08	Core Systems Contract	Delays in civil, guideway, and stations construction may cause Core Systems installation delay. Shared access to facilities needs to be coordinated.	75%	4	5	5	20	20
37.19	Airport Guideway and Stations	Additional utility easements may be required for military properties or private utility companies.	75%	4	5	4	18	18
6.06	City Center Guideway & Stations	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
110.06	City Center Guideway & Stations	Real Estate market could continue to increase rapidly 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 reprocurement of West Side Stations.	75%	4	4	5	18	18
6.04	Kamehameha Highway Guideway	Insufficient utility company resources available to meet the design, approvals, and/or construction schedule.	75%	4	5	4	18	18
37.06	City Center Guideway & Stations	Additional utility easements may be required for private utility companies or other project needs.	50%	3	5	5	15	15
186.17	Elevator/Escalator	Increase in escalator requirements.	90%	5	3	3	15	15
37.04	Kamehameha Highway Guideway	Additional utility easements may be required for private utility companies.	50%	3	5	5	15	15

Risks are placed in order based on highest risk rating for the month. The Top Risks listed represents those 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 by HART staff.

Figure 19. Risks Added

Risks Added in February 2016							
Risk ID	Contract Package	Risk Description	Probability	Prob Rating	Cost Impact	Time Impact	Risk Rating
201.07	Maintenance & Storage Facility Contract	MSF Third Party sign-offs from DPP and Fire Marshall could delay acceptance of facilities and Beneficial Occupancy. Alterations to facility may be needed to address Third Party concerns.	10%	2	2	3	5
202.08	Core Systems Contract	Delays in access/ turn-over dates of LCC station may impact functional section testing.	50%	3	3	3	9

Figure 20. Risks Deleted

Risks Deleted in February 2016					
Current Risk ID	Contract Package	Risk Description	Comments	Risk Rating	
				Feb. '16	Jan. '16
145.12	KHSG	Procurement process may impact schedule and/or price.	2/16 - Item deleted. Contract has been awarded.	7.5	7.5
115.03	West Oahu/Farrington Highway Guideway	Change in station designs may affect guideway and result in additional construction costs.	2/16 - Item deleted. No additional changes to the WOFH guideway contract are anticipated due to station designs.	5	5
97.03	West Oahu/Farrington Highway Guideway	Securing Right-of-Way for the project is required to avoid delay to the contractor.	2/16 - Item deleted. No additional ROW impacts are anticipated for WOFH.	4	4
74.03	West Oahu/Farrington Highway Guideway	Traffic Mitigation - Unforeseen special events not listed in SPs may cause delays to construction or add MOT costs.	2/16 - Item deleted. Holiday periods are now past and no additional special event traffic interruptions are anticipated for WOFH.	3	3

6.7 Community Outreach

- **Activities this Month**
  - HART and its contractor held a ground breaking ceremony in Waipahu to signal the commencement of construction for the first two rail stations that will be built for the project.
  - HART's public outreach included nearly two dozen presentations to business organizations, schools and community groups.
  - HART Executive Director and CEO Dan Grabauskas and HART Board Chairman Don Horner were on hand and answered questions when Mayor Kirk Caldwell signed into law the bill that extends the county surcharge on the state General Excise and Use Tax to fund the rail project.

Since the inception of HART, the outreach team has participated in:

- *934 Presentations and Events*
- *512 Neighborhood Board Meetings*

Prior to the inception of HART, the outreach team participated in:

- *1,001 Presentations and Events*
- *541 Neighborhood Board Meetings*

- **Construction Outreach**
  - HART held two Business Alliance meetings this month, one in Waipahu and a second one in the Pearl City area. These regular meetings are designed to provide businesses along the rail corridor with updated information about construction work and upcoming traffic changes in their area. The meetings are also designed to provide businesses with the opportunity to provide feedback that helps shape some of HART's business outreach programs. HART's Business Alliance partnership continues to provide businesses in the construction corridor with tailored construction briefings, free business development workshops, and other programs to assist local businesses during construction.
  - HART's Public Outreach staff did door-to-door canvassing in the construction corridor to alert business owners and operators about the meetings and to hear from businesses about the impacts of construction and suggestions on how those impacts might be mitigated.

- HART continues to provide weekly traffic updates, notifying motorists, elected officials and members of the public of upcoming lane closures due to rail construction. The advisories are posted on the project website and distributed via email to local media outlets.

Figure 21. West Loch Station Groundbreaking

HART and Hawaiian Dredging Construction Company held a ground breaking ceremony to signal the start of construction of the rail stations in Waipahu

- **Community Input**
  - HART's public outreach team responded to more than 80 public inquiries this month. Inquiries were related to traffic, construction and business outreach programs.

- **Look Ahead**

  Coming in March:
  - HART will have a booth at the First Hawaiian International Auto Show.
  - HART will participate in Kapiolani Community College's 2016 College Transfer and Employment Fair.
  - HART will hold two Business & Community meetings for businesses and residents in the Waipahu, Aiea and Pearl City areas.
  - HART expands its business outreach program in Waipahu and continues its free shuttle service along Kamehameha Highway as part of its Shop & Dine on the Line program to assist businesses along the rail route during construction.

6.8 Staffing

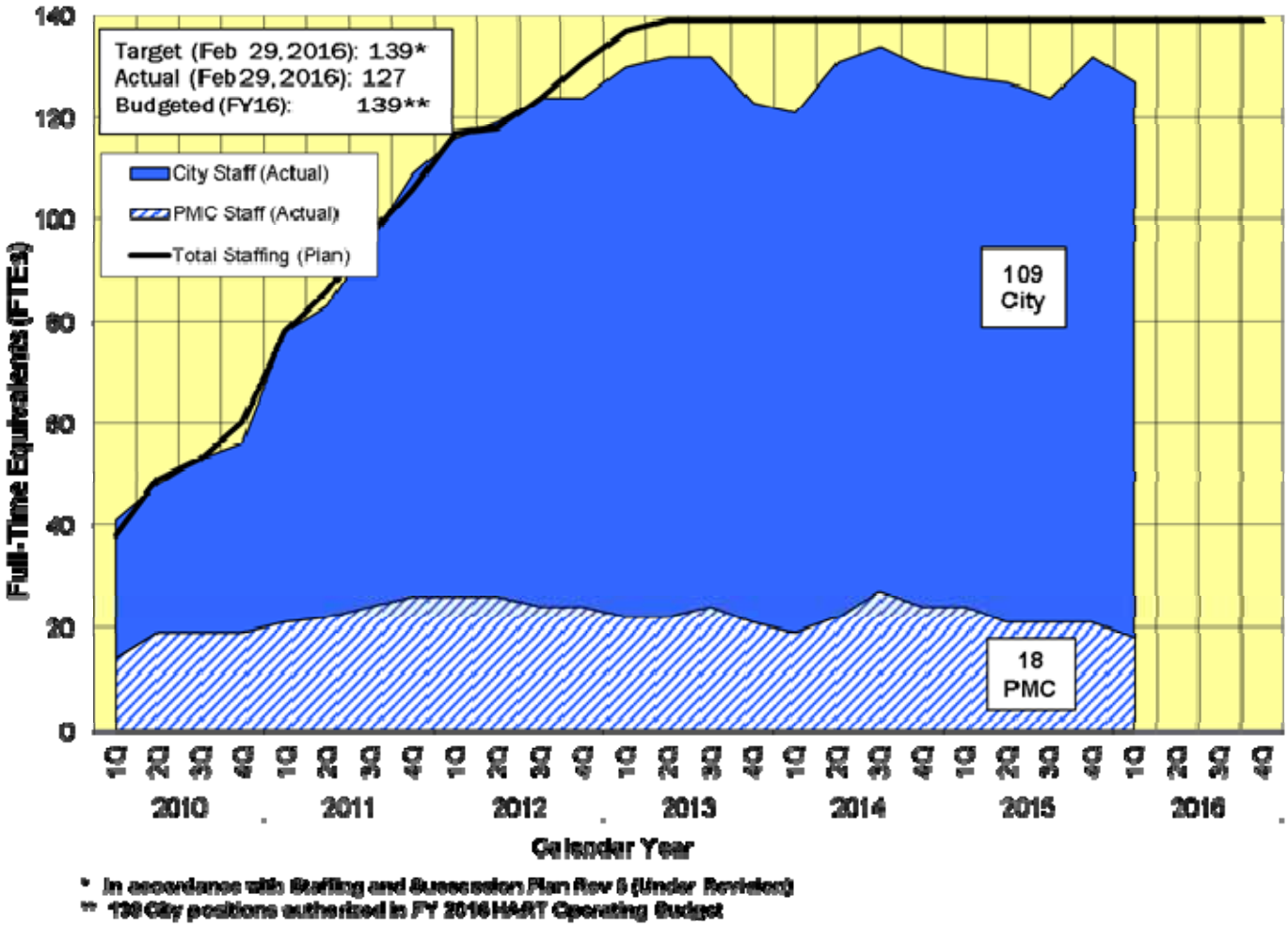
Figure 22. Staffing Activities

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	
Assistant Project Manager (City Center DB)	Construction	New (City)	Recruiting	
Project Manager (WOFH & KHG)	Construction	Existing (City)	Recruiting/Interviewing	
Electrical Engineer	Core Systems	Existing (City)	Recruiting/Interviewing	
Planning, Permits and Right-of-Way				
Planner III* (Environmental)	Planning	Existing (City)	Recruiting	
Budget and Finance				
Chief Financial Officer	Budget and Finance	Existing (City)	Scheduling Interviews	
Operations and Maintenance				
Director of Operations & Maintenance	Operations & Maintenance	Existing (City or PMC)	Interviewing	
Quality Assurance				
Quality Assurance Engineer * (Civil)	Quality Assurance	Existing (City)	Recruiting	
Administrative Services				
Personnel Clerk	Administrative Services	New (City)	Recruiting via Civil Service	
Information Technology Support Technician (2)	Administrative Services	Existing (City)	Recruiting/Interviewing	
Public Information				
Director of Communications	Public Information	Existing (City)	Scheduling Interviews	
Project Controls				
Scheduler	Project Controls	Existing (City)	Recruiting	
Civil Rights				
Human Resources Specialist	Civil Rights	Existing (City)	Selected	Mar
Procurement				
Procurement & Specification Specialist	Procurement & Specifications	Existing (City)	Filled	Feb
Contract Administration and Change				
Contract Specialist (2)	Contract Admin and Change	Existing (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)



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	TBD		In progress.
2d	Re-baseline MPS	HART	Apr-14	TBD		HART to provide revised MPS update for review.
2f	Update RCMP (including Hold Points and Secondary Mitigation Measures)	HART	Sept-13	TBD		HART to provide updated draft that reflects revised budget and schedule.
3	HART to provide target date for Federal Courthouse resolution/sign-off	HART	Sep-15	Feb-16	Feb-16	Target date is May 2016; PMOC will continue to track progress in meeting this target date.
4	HART to provide Operational Readiness Checklist/Hold Points for MSF Certification	HART	Jan-16	Jan-16	Feb-16	Complete

Appendix B. Project Contingency Management General Background and Clarifications

Current Contingency Balance = $487.4M

Current Known Changes Contingency = $0M

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.

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 drawndown 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

Data as of 1/29/16

#	Project No.	Project Desc.	Budget Transfer/Change Description	Contingency Drawdown ($K)	Contingency Code
July '12 (Bottoms-Up Estimate)			**Beg. Balance:**	**$643.6**	
1)	FD-240	Farrington Highway Stations Group FD	Budget Transfer at Bottoms-Up-Estimate from Project Scope to Contingency (contract allowance)	$58,443	90.03 - Contract Allowance
2)	FD-430	Airport Section Guideway Utilities FD	Budget Transfer for Contract Award less than the ASGU FD contract budget	$2,064,106	90.02 - Allocated Contingency
3)	MM-975	LEED Commissioning Services	Budget Transfer for Contract Award above the LEED Comm. Services contract budget	($36,623)	90.02 - Allocated Contingency
4)	DB-320	Kamehameha Highway Guideway DB	Budget Transfer for Contract Award above the KHG DB contract budget	($220,863)	90.02 - Allocated Contingency
5)	DB-120	West Oahu Farrington Highway Guideway DB	Budget Transfer for Ins. Covg per executed CO No. 004	$3,995,230	90.02 - Allocated Contingency
			July '12 Contingency Drawdown	**$5,851,273**	
			July '12 - Ending Contingency Balance	**$649.4**	
August '12			**Beg. Balance:**	**$649.4**	
1)	FD-140	West Oahu Stations Group FD	Budget Transfer for Contract Awarded under WOSG FD contract budget	$1,808,200	90.02 - Allocated Contingency
2)	FD-530	City Center Guideway Utilities FD	Budget Transfer for Contract Awarded under CCGU FD contract budget	$5,917,945	90.02 - Allocated Contingency
3)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 17 - Procure and Install Portable Buildings	($2,670,000)	90.02 - Allocated Contingency
			August '12 Contingency Drawdown	**$5,056,145**	
			August '12 - Ending Contingency Balance	**$654.5**	
September '12			**Beg. Balance:**	**$654.5**	
	N/A	N/A	No Contingency Drawdown	$0	
			September '12 Contingency Drawdown	**$0**	
			September '12 - Ending Contingency Balance	**$654.5**	
October '12			**Beg. Balance:**	**$654.5**	
1)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 21 - Builders Risk Insurance Coverage	($56,589)	90.02 - Allocated Contingency
			October '12 Contingency Drawdown	**($56,589)**	
			October '12 - Ending Contingency Balance	**$654.4**	
November '12			**Beg. Balance:**	**$654.4**	
1)	FD-440	Airport Stations Group FD	Budget Transfer for Contract Award under ASG FD the contract budget	$227,784	90.03 - Contract Allowance
2)	FD-340	Kamehameha Highway Stations Group FD	Budget Transfer for Contract Award under KHSG FD the contract budget	$202,489	90.03 - Contract Allowance
3)	MM-905	General Engineering Consultant	Budget Transfer to align contract budget with Committed value	($120,830)	90.02 - Allocated Contingency
			November '12 Contingency Drawdown	**$309,823**	
			November '12 - Ending Contingency Balance	**$654.7**	
December '12			**Beg. Balance:**	**$654.7**	
1)	FD-430	Airport Section Guideway Utilities FD	Executed Contract Amendment No. 01 - Design & Engineering Cost Estimates	($278,000)	90.02 - Allocated Contingency
			December '12 Contingency Drawdown	**($278,000)**	
			December '12 - Ending Contingency Balance	**$654.4**	
January '13			**Beg. Balance:**	**$654.4**	
1)	DB-320	Kamehameha Highway Guideway DB	Executed Change Order No. 01 - Acacia Rd alternative analysis	($15,981)	90.02 - Allocated Contingency
			January '13 Contingency Drawdown	**($15,981)**	
			January '13 - Ending Contingency Balance	**$654.4**	
February '13			**Beg. Balance:**	**$654.4**	
1)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 28 - Ins. Covg Requirement/ Additional BGGV at Ft. Weaver Rd	($1,670,178)	90.02 - Allocated Contingency
			February '13 Contingency Drawdown	**($1,670,178)**	
			February '13 - Ending Contingency Balance	**$652.8**	
March '13			**Beg. Balance:**	**$652.8**	
1)	FD-240	Farrington Highway Stations Group FD	Executed Contract Amendment No. 09 - Waipahu Station sewer	($3,895)	90.03 - Contract Allowance
2)	DB-200	Maintenance & Storage Facility DB	Executed Change Order No. 08 - Ins. Covg Requirements/ DB Crossovers Insulated Joints	($454,866)	90.02 - Allocated Contingency
			March '13 Contingency Drawdown	**($458,761)**	
			March '13 - Ending Balance	**$652.3**	
April '13			**Beg. Balance:**	**$652.3**	
1)	FD-140	West Oahu Stations Group FD	Executed Contract Amendment No. 01 - Second elevator provision	($81,013)	90.03 - Contract Allowance
2)	DB-120	West Oahu Farrington Highway Guideway DB	Budget Transfer to offset Ins. Covg Requirement for Change Order No. 28	$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. 08	$404,000	90.02 - Allocated Contingency
4)	DB-320	Kamehameha Highway Guideway DB	Budget Transfer to Align current budget to contract Schedule of Milestones	$800	90.02 - Allocated Contingency
			April '13 Contingency Drawdown	**$2,023,765**	
			April '13 - Ending Contingency Balance	**$654.3**	
May '13			**Beg. Balance:**	**$654.3**	
	N/A	N/A	No Contingency Drawdown	$0	
			May '13 Contingency Drawdown	**$0**	
			May '13 - Ending Contingency Balance	**$654.3**	
June '13			**Beg. Balance:**	**$654.3**	
	N/A	N/A	No Contingency Drawdown	$0	
			June '13 Contingency Drawdown	**$0**	
			June '13 - Ending Contingency Balance	**$654.3**	

HART Project Contingency Drawdown with Details

Data as of 1/29/16

#	Project No.	Project Desc.	Budget Transfer/Change Description	Contingency Drawdown (+/-)	Contingency Code
July '13			**Beg. Balance:**	**$654.3**	
1)	FD-430	Airport Section Guideway Utilities FD	Executed Contract Amendment No. 04 - Antenna Engineering Design Services	($464,114)	90.02 - Allocated Contingency
2)	DB-200	Maintenance & Storage Facility DB	Executed Change Order No. 07 - Archeological Inventory Survey (AIS) Provisional Sum Part 2	($3,000,000)	90.02 - Allocated Contingency
3)	DB-200	Maintenance & Storage Facility DB	Executed Change Order No. 08 - Maintenance & Storage Facility Yard Switch Machines	($559,000)	90.02 - Allocated Contingency
4)	DB-200	Maintenance & Storage Facility DB	Executed Change Order No. 09 - Yard Layout Revisions	($514,426)	90.02 - Allocated Contingency
5)	DB-200	Maintenance & Storage Facility DB	Executed Change Order No. 10 - Train Configuration	($27,700)	90.02 - Allocated Contingency
6)	DB-200	Maintenance & Storage Facility DB	Executed Change Order No. 11 - Preliminary Design & Supplemental Project Mgt	($594,868)	90.02 - Allocated Contingency
			July '13 Contingency Drawdown	**($5,254,104)**	
			July '13 - Ending Contingency Balance	**$649.1**	
August '13			**Beg. Balance:**	**$649.1**	
1)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 30 - Archeological Inventory Survey (AIS) Provisional Part 2	($5,000,000)	90.02 - Allocated Contingency
2)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 32 - Kalia Channel Station Mod Concept	($72,381)	90.02 - Allocated Contingency
3)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 34 - Traditional Cultural Property Construction Partial Suspension	($1,195,084)	90.02 - Allocated Contingency
4)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 36 - Ho'opili Station Relocation Design	($460,615)	90.02 - Allocated Contingency
5)	DB-320	Kamehameha Highway Guideway DB	Executed Change Order No. 06 - Archeological Inventory Survey (AIS) Provisional Part 2	($1,500,000)	90.02 - Allocated Contingency
6)	FD-140	West Oahu Stations Group FD	Executed Contract Amendment No. 02 - Canopy Redesign	($504,389)	90.03 - Contract Allowance
7)	MI-930	Elevator & Escalator Install/Maint	Budget Transfer for Contract Awarded under E&E I/M contract budget	$3,739,472	90.02 - Allocated Contingency
			August '13 Contingency Drawdown	**($5,024,004)**	
			August '13 - Ending Contingency Balance	**$643.2**	
September '13			**Beg. Balance:**	**$643.2**	
1)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 33 - Provisional Sum HDOT Joint Use and Occupancy	($4,900,000)	90.02 - Allocated Contingency
2)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 35 - Aesthetic Column Design Conflict	($120,812)	90.02 - Allocated Contingency
3)	DB-200	Maintenance & Storage Facility DB	Executed Change Order No. 12 - HNTB Design Escalation	($623,500)	90.02 - Allocated Contingency
4)	FD-240	Farrington Highway Stations Group FD	Executed Contract Amendment No. 10 - NTP 2 Delay/Design Delay from Core Systems Contract & West Oahu Farrington Highway DB Contract	($270,985)	90.02 - Allocated Contingency
			September '13 Contingency Drawdown	**($6,115,297)**	
			September '13 - Ending Contingency Balance	**$637.1**	
October '13			**Beg. Balance:**	**$637.1**	
1)	DB-200	Maintenance & Storage Facility DB	Executed Change Order No. 13 - Ins. Covg Requirements/ Roof Access Modification	($282,155)	90.02 - Allocated Contingency
2)	DB-200	Maintenance & Storage Facility DB	Budget Transfer for Change Order No. 13 for Ins. Covg Requirements	$266,500	90.02 - Allocated Contingency
3)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 37 - Ala Ike Street Mod/ W38 at DR Horton & Farrington HWY	$24,815	90.02 - Allocated Contingency
4)	DBOM-920	Core Systems Design Build O/M	Executed Change Order No. 05 - Platform Screen Gates Systems	($22,301,657)	90.02 - Allocated Contingency/ 90.01 - Unallocated Contingency
5)	FD-550	Dillingham and Kaka'ako Stations Group FD	Budget Transfer for Contract awarded under DKSG FD contract budget	$1,152,200	90.02 - Allocated Contingency
			October '13 Contingency Drawdown	**($22,154,737)**	
			October '13 - Ending Contingency Balance	**$615.0**	
November '13			**Beg. Balance:**	**$615.0**	
1)	DB-120	West Oahu/Farrington Highway Guideway DB	Executed Change Order No. 38 - Insurance Coverage Requirement Q4 2013	($1,600,000)	90.02 - Allocated Contingency
2)	DB-120	West Oahu/Farrington Highway Guideway DB	Budget Transfer for Change Order No. 038 for Ins. Covg. Requirements	$1,600,000	90.02 - Allocated Contingency
3)	DB-200	Maintenance & Storage Facility DB	Executed Change Order No. 014 - Preliminary Design & Supplemental Project Management 2	($214,945)	90.02 - Allocated Contingency
4)	DB-200	Maintenance & Storage Facility DB	Executed Change Order No. 015 - Yard Layout Revisions/RFP Structural Steel Modification	($1,723,000)	90.02 - Allocated Contingency
5)	DB-200	Maintenance & Storage Facility DB	Budget Transfer for Change Order No. 015 for Ins. Covg. Requirements	$223,000	90.02 - Allocated Contingency
6)	FD-530	City Center Guideway Utilities FD	Executed Contract Amendment No. 01 - Archeological Inventory Survey (AIS) Suspension	($527,600)	90.02 - Allocated Contingency
7)	FD-240	Farrington Highway Station Group FD	Budget Transfer for Contract Award for FHSG FD II	($2,706,294)	90.01 - Unallocated Contingency
			November '13 Contingency Drawdown	**($4,347,851)**	
			November '13 - Ending Contingency Balance	**$610.0**	
December '13			**Beg. Balance:**	**$610.0**	
1)	FD-430	Airport Section Guideway Utilities FD	Executed Contract Amendment No. 05 - Ulena St redesign scope impact	($248,959)	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	($23,926)	90.02 - Allocated Contingency
			December '13 Contingency Drawdown	**($272,885)**	
			December '13 - Ending Contingency Balance	**$609.8**	
January '14			**Beg. Balance:**	**$609.8**	
1)	FD-430	Airport Section Guideway Utilities FD	Executed Contract Amendment No. 06 - Archeological Inventory Survey (AIS) Suspension	($2,308,450)	90.02 - Allocated Contingency
2)	FD-530	City Center Guideway Utilities FD	Executed Contract Amendment No. 02 - Soil Resistance Test and Max Sag Calculation	($408,153)	90.02 - Allocated Contingency
3)	MM-290	Construction Engineering & Inspection West	Budget Transfer for Contract Award less than CE&I West contract budget	$181,069	90.02 - Allocated Contingency
4)	MM-595	Construction Engineering & Inspection East	Budget Transfer for Contract Award less than CE&I East contract budget	($1,102,817)	90.02 - Allocated Contingency
			January '14 Contingency Drawdown	**($1,429,710)**	
			January '14 - Ending Contingency Balance	**$608.3**	
February '14			**Beg. Balance:**	**$608.3**	
1)	FD-430	Airport Section Guideway Utilities FD	Executed Contract Amendment No. 07 - Repair & Sag Geotech Investigation	($132,900)	90.02 - Allocated Contingency
2)	HRT-201	HART ODC	Budget Transfer for Contract Award - Archeological & Cultural Monitoring contract	($11,487)	90.02 - Allocated Contingency
3)	MM-910	UEC II	Budget Transfer for Contract Award - Archeological & Cultural Monitoring & Core Systems Support contracts	($4,424,173)	90.02 - Allocated Contingency
4)	MM-960	Archeological & Cultural Monitoring	Budget Transfer for Contract Award - Archeological & Cultural Monitoring contract	$36,761	90.02 - Allocated Contingency
5)	MM-962	Core Systems Support	Budget Transfer for Contract Award - Core Systems Support contract	$4,299,899	90.02 - Allocated Contingency
			February '14 Contingency Drawdown	**($132,900)**	
			February '14 - Ending Contingency Balance	**$608.2**	

HART Project Contingency Drawdown with Details

Data as of 1/29/16

#	Project No.	Project Desc.	Budget Transfer/Change Description	Contingency Drawdown (+/-)	Contingency Code
		March '14	**Beg. Balance:**	**$608.2**	
	N/A	N/A	No Contingency Drawdown	$0	
			March '14 Contingency Drawdown	**$0**	
			March '14 - Ending Contingency Balance	**$608.2**	
		April '14	**Beg. Balance:**	**$608.2**	
1)	FD-140	West Oahu Stations Group FD	Executed Contract Amendment No. 04 - East Kapolei Staff Room Pre-Final Submittal	($92,242)	90.03 - Contract Allowance
2)	FD-430	Airport Section Guideway Utility FD	Executed Contract Amendment No. 09 - Notice-to-Proceed 4&5/Provisional Sum for Design Support during bid	($1,588,014)	90.03 - Contract Allowance
3)	DB-200	Maintenance & Storage Facility DB	Executed Change Order No. 016 - Rail Lubricators	($102,000)	90.02 - Allocated Contingency
4)	DB-200	Maintenance & Storage Facility DB	Executed Change Order No. 017 - Yard Layout Reconfiguration/Automated Train Operation Design	($2,125,000)	90.02 - Allocated Contingency
5)	DB-200	Maintenance & Storage Facility DB	Executed Change Order No. 018 - Rail Material Storage Plan	($310,000)	90.02 - Allocated Contingency
6)	DB-200	Maintenance & Storage Facility DB	Executed Change Order No. 019 - Train Wash Facility Shortening	$0	90.02 - Allocated Contingency
7)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 040 - Precast Yard Alternative Site	($12,400,638)	90.02 - Allocated Contingency
8)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 041 - Revised Track Alignment and Profile	($48,808)	90.02 - Allocated Contingency
9)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 042 - Sandwhich Isles Communications Utility Relocation @ North South Rd	($788,349)	90.02 - Allocated Contingency
10)	DB-220	Kamehameha Highway Guideway DB	Executed Change Order No. 005 - Rebar Clear Spacing Design Criteria	$0	90.02 - Allocated Contingency
			April '14 Contingency Drawdown	**($17,490,752)**	
			April '14 - Ending Contingency Balance	**$590.7**	
		May '14	**Beg. Balance:**	**$590.7**	
1)	FD-140	West Oahu Stations Group FD	Budget Transfer for Executed Contract Amendment No. 05 - Final Design for relocated Hoopili Station	$220,123	90.02 - Allocated Contingency
2)	DB-220	Kamehameha Highway Guideway DB	Executed Change Order No. 008 - APEC work restrictions/abandoned utilities removal	($505,874)	90.02 - Allocated Contingency
3)	DB-320	Kamehameha Highway Guideway DB	Executed Change Order No. 009 - Emergency walkway/insurance covg. Requirements 2013	($289,000)	90.02 - Allocated Contingency
4)	DBOM-920	Core Systems Contract Design Build O/M	Executed Change Order No. 007 - Relocate TPSS to system site #3	$987,054	90.02 - Allocated Contingency
5)	MM-015	HDOT MOT Consultant	Budget Transfer for Executed Contract Amendment No.002 - Increase T&M contract value	$207,391	90.02 - Allocated Contingency
6)	MM-975	MSF LEED Consultant	Budget Transfer for Executed Contract Amendment No. 001 - LEED measurement and verification plan	($9,910)	90.02 - Allocated Contingency
7)	DB-200	Maintenance & Storage Facility DB	Executed Change Order No. 020 - CSC consolidated changes construction	($22,500,000)	90.01 - Unallocated Contingency
8)	DB-200	Maintenance & Storage Facility DB	Executed Change Order No. 025 - OSB reconfiguration	$110,000	90.02 - Allocated Contingency
			May '14 Contingency Drawdown	**($22,310,016)**	
			May '14 - Ending Contingency Balance	**$568.4**	
		June '14	**Beg. Balance**	**$568.4**	
1)	DB-200	Maintenance & Storage Facility DB	Board Approved RFCC 00010 - Amendment 1 Non-Rail Escalation	($5,000,000)	90.02 - Allocated Contingency
			June '14 Contingency Drawdown	**($5,000,000)**	
			June '14 - Ending Contingency Balance	**$563.4**	
		July '14	**Beg. Balance**	**$563.4**	
1)	DBOM-920	Core Systems Contract Design Build O/M	Executed Change Order No. 008 - Platform Screen Gates Mobilization	($898,184)	90.02 - Allocated Contingency
2)	ROW	Real Estate/Right-of-Way	Budget Transfer for Contract Award above the Real Estate Map & Survey budget	($1,344,812)	90.02 - Allocated Contingency
3)	DB-200	Maintenance & Storage Facility DB	Budget Transfer to Project Contingency from remaining "known" Changes balance	$1,007,860	90.02 - Allocated Contingency
4)	DB-120	West Oahu Farrington Highway Guideway DB	Budget Transfer to Project Contingency from remaining "known" Changes balance	$1,558,101	90.02 - Allocated Contingency
			July '14 Contingency Drawdown	**$321,161**	
			July '14 - Ending Contingency Balance	**$563.7**	
		August '14	**Beg. Balance**	**$563.7**	
1)	DB-320	Kamehameha Highway Guideway DB	Executed Change Order No. 010 - Delay in issuance of Notice-to-Proceed 2 & 3	($1,929,000)	90.02 - Allocated Contingency
2)	FD-140	West Oahu Stations Group FD	Executed Amendment No. 006 - Passenger screen gates	($80,223)	90.02 - Allocated Contingency
3)	DBB-505	Airport Section Utility Construction DBB	Budget Transfer for Contract Award above Airport Section Utility Construction original budget	($2,755,321)	90.02 - Allocated Contingency
4)	MM-945	On Call Hazmat Removal Consultant	Budget Transfer due to scope transfer from ROW to Hazmat consultant	$470,823	90.02 - Allocated Contingency
5)	MM-945	On Call Contractor	Budget Transfer for Contract Award above On Call Contractor original budget	($130,425)	90.02 - Allocated Contingency
			August '14 Contingency Drawdown	**($4,323,166)**	
			August '14 - Ending Contingency Balance	**$559.4**	
		September '14	**Beg. Balance**	**$559.4**	
1)	MM-950	OCIP Consultant Contract	Budget Transfer to unallocated contingency as estimate at completion is less than current budget	$750,000	90.02 - Allocated Contingency
2)	DB-200	Maintenance & Storage Facility DB	Executed Change Order No. 027 - Traditional Cultural Properties (TCP) Suspension	($473,593)	90.02 - Allocated Contingency
3)	DB-200	Maintenance & Storage Facility DB	Executed Change Order No. 026 - Insurance Coverage Requirements 2014	($1,112,000)	90.02 - Allocated Contingency
4)	DB-320	Kamehameha Highway Guideway DB	Executed Change Order No. 011 - Revised Vehicle Criteria/Construction Safety Security Plan	($231,500)	90.02 - Allocated Contingency
5)	DB-320	Kamehameha Highway Guideway DB	Executed Change Order No. 012 - Insurance Coverage Requirements 9/1/13 - 8/2/2014	($1,400,000)	90.02 - Allocated Contingency
6)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 045 - Standard Specification Revision 2.0	($2,650,000)	90.02 - Allocated Contingency
7)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 046 - Insurance Coverage Requirements 2014	($3,400,000)	90.02 - Allocated Contingency
8)	FD-530	City Center Guideway Utilities FD	Executed Contract Amendment 004 - Aesthetic Station Column	($271,860)	90.02 - Allocated Contingency
9)	FD-530	City Center Guideway Utilities FD	Executed Contract Amendment 005 - City Center Section Rescue Cart Scope Impact	($12,000)	90.02 - Allocated Contingency
10)	FD-340	Kamehameha Highway Stations Group FD	Executed Contract Amendment 001 - Special Provisions Update/Shear Wave Analysis	($27,907)	90.03 - Contract Allowance
11)	FD-340	Kamehameha Highway Stations Group FD	Executed Contract Amendment 003 - Historic Architect/Replace Highway Sign	($11,911)	90.03 - Contract Allowance
12)	FD-340	Kamehameha Highway Stations Group FD	Executed Contract Amendment 005 - Added Bus Shelters at Aloha Stadium Station	($29,897)	90.03 - Contract Allowance
13)	FD-430	Airport Section Guideway Utility FD	Executed Contract Amendment 010 - Aesthetic Station Column and Pearl Harbor Station Redesign	($249,750)	90.02 - Allocated Contingency
14)	FD-430	Airport Section Guideway Utility FD	Executed Contract Amendment 011 - Airport Section Rescue Cart Scope Impact	($45,000)	90.02 - Allocated Contingency
15)	FD-140	West Oahu Stations Group FD	Executed Contract Amendment 007 - Traffic Signal Conflict UHWO/Ho'opili Access Road	($62,722)	90.03 - Contract Allowance
			September '14 Contingency Drawdown	**($9,336,151)**	
			September '14 - Ending Contingency Balance	**$550.1**	
		October '14	**Beg. Balance**	**$550.1**	
1)	DBOM-920	Core Systems Contract Design Build O/M	Executed Change Order No. 009 - WOFH Guideway Alignment for CSC	($145,000)	90.02 - Allocated Contingency
2)	DB-200	Maintenance & Storage Facility DB	Executed Change Order No. 028 - Escalation due to Schedule Impacts	($8,500,000)	90.01 - Unallocated Contingency

HART Project Contingency Drawdown with Details

Data as of 1/29/16

#	Project No.	Project Desc.	Budget Transfer/Change Description	Contingency Drawdown (+/-)	Contingency Code
3)	DB-320	Kamehameha Highway Guideway DB	Executed Change Order No. 013 - Station Load & Configuration Mods	($1,350,000)	80.02 - Allocated Contingency
4)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 047 - Station Load & Configuration Mods	($4,400,000)	80.02 - Allocated Contingency/ 80.01 - Unallocated Contingency
5)	FD-440	Airport Stations Group FD	Executed Contract Amendment No. 002 - Extension of PM Services	($790,000)	80.02 - Allocated Contingency
6)	FD-440	Airport Stations Group FD	Executed Contract Amendment No. 003 - Add Pedestrian Bridges to HIA Stations	($434,840)	80.02 - Allocated Contingency
7)	FD-240	Farrington Highway Stations Group-2 FD	Executed Contract Amendment No. 001 - Extension of PM Services	($297,500)	80.03 - Contract Allowance
8)	FD-240	Farrington Highway Stations Group-2 FD	Executed Contract Amendment No. 002 - Incorporation of Comments	($789,758)	80.01 - Unallocated Contingency
9)	FD-240	Farrington Highway Stations Group-2 FD	Executed Contract Amendment No. 003 - Value Engineering	($472,705)	80.01 - Unallocated Contingency
10)	FD-240	Farrington Highway Stations Group-2 FD	Executed Contract Amendment No. 004 - EOR/AOR	($746,539)	80.01 - 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	($102,286)	80.03 - Contract Allowance
12)	FD-140	West Oahu Stations Group FD	Executed Contract Amendment No. 011 - Extension of PM Services	($297,500)	80.02 - Allocated Contingency
			October '14 Contingency Drawdown	**($19,307,138)**	
			October '14 - Ending Contingency Balance	**$531.8**	
November '14			**Beg. Balance**	**$531.8**	
1)	DBOM-920	Core Systems Contract Design Build O/M	Executed Change Order No. 012 - Delete Ticket Vending Machines	$10,350,000	80.02 - Allocated Contingency
2)	FD-550	Dillingham Kaka'ako Stations Group FD	Executed Contract Amendement No. 002 - General Excise Tax credit	$385,586	80.02 - Allocated Contingency
			November '14 Contingency Drawdown	**$10,735,586**	
			November '14 - Ending Contingency Balance	**$542.5**	
December '14			**Beg. Balance**	**$542.5**	
1)	DBOM-920	Core Systems Contract Design Build O/M	Executed Change Order No. 010 - HRT Train Mock-up Shipment/Delivery	($83,715)	80.02 - Allocated Contingency
3)	DBOM-920	Core Systems Contract Design Build O/M	Executed Change Order No. 013 - HECO Connection Charges	($180,000)	80.02 - Allocated Contingency
4)	DB-320	Kamehameha Highway Guideway DB	Executed Change Order No. 014 - Escalation due to Schedule Impacts	($3,500,000)	80.02 - Allocated Contingency
5)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 048 - Escalation due to Schedule Impacts	($15,000,000)	80.01 - Unallocated Contingency
			December '14 Contingency Drawdown	**($18,713,715)**	
			December '14 - Ending Contingency Balance	**$523.8**	
January '15			**Beg. Balance**	**$523.8**	
1)	DBOM-920	Core Systems Contract Design Build O/M	Executed Change Order No. 011 - Eliminate Station Manager Booths	$310,000	80.02 - Allocated Contingency
2)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 050 - Escalation due to Schedule Impacts Subcontractor Ameron Aggregate	($484,413)	80.01 - Unallocated Contingency
3)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 051 - Escalation due to Schedule Impacts Subcontractor Anti-Graffiti Paint	($21,478)	80.01 - Unallocated Contingency
4)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 052 - Escalation due to Schedule Impacts Subcontractor HPD Spec Duty Officer	($156,123)	80.01 - Unallocated Contingency
5)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 053 - Escalation due to Schedule Impacts Subcontractor MESA Blocks	($71,863)	80.01 - Unallocated Contingency
6)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 054 - Escalation due to Schedule Impacts Subcontractor Road Builder	($116,055)	80.01 - Unallocated Contingency
7)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 055 - Escalation due to Schedule Impacts Subcontractor Peiff Tension Strand Accessories	($267,177)	80.01 - Unallocated Contingency
8)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 056 - Escalation due to Schedule Impacts Subcontractor Ameron Rolled Drilled Shaft Casings	($102,873)	80.01 - Unallocated Contingency
9)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 057 - Escalation due to Schedule Impacts Subcontractor PAC Electric	($777,887)	80.01 - Unallocated Contingency
10)	DBOM-920	Core Systems Contract Design Build O/M	Executed Change Order No. 014 - Eliminate Secondary Emergency Access at MSF	$50,000	80.02 - Allocated Contingency
11)	FD-430	Airport Section Guideway Utilities FD	Executed Contract Amendment No. 012 - Contaminated Soil, 7 Piers, Wayside Lubricators	($58,700)	80.02 - Allocated Contingency
12)	FD-550	Dillingham Kaka'ako Stations Group FD	Executed Contract Amendment No. 003 - Scope for Downtown Sta/Civic Center Sta/Kapalama Sta & Bike Ramps	($480,017)	80.02 - Allocated Contingency
13)	FD-550	Dillingham Kaka'ako Stations Group FD	Executed Contract Amendment No. 004 - Ala Moana Transit Ctr-Chinatown Sta Geotech Expedited Station Loads	($819,717)	80.02 - Allocated Contingency
14)	FD-240	Farrington Highway Stations Group-2 FD	Executed Contract Amendment No. 005 - Addition of Bike Ramps to FHSG Stations	($17,744)	80.02 - 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)	80.02 - Allocated Contingency
16)	FD-240	Farrington Highway Stations Group-2 FD	Executed Contract Amendment No. 007 - MODS to West Loch and Waipahu Girder Design	($39,000)	80.02 - Allocated Contingency
			January '15 Contingency Drawdown	**($3,888,243)**	
			January '15 - Ending Contingency Balance	**$519.8**	
February '15			**Beg. Balance**	**$519.8**	
1)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 058 - Kalbi Drainage Channel Geotechnical	($987,501)	80.02 - Allocated Contingency
2)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 059 - Revision of Waipahu Guideway, LCC Station & Pedestrian Vibration Criteria	($1,001,052)	80.02 - Allocated Contingency
3)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 060 - Waiawa Scour Design Actuals	($289,494)	80.02 - Allocated Contingency
4)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 061 - Kalbi Scour Design Actuals	($136,571)	80.02 - Allocated Contingency
5)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 062 - West Loch and UHWO Station Revisions of Guideway	($64,212)	80.02 - Allocated Contingency
6)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 063 - Procurement & Delivery LCC Modular Bldg	($1,818,021)	80.01 - Unallocated Contingency
			February '15 Contingency Drawdown	**($4,196,851)**	
			February '15 - Ending Contingency Balance	**$515.6**	
March '15			**Beg. Balance**	**$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)	80.02 - Allocated Contingency
2)	FD-140	West Oahu Stations Group FD	Executed Change Amendment No. 013 - WOSG Rebid and VE Items, A&B Bay Station Canopy Roofs, Change to CSC Dev location	($380,000)	80.02 - Allocated Contingency
3)	FD-140	West Oahu Stations Group FD	Executed Change Amendment No. 013 - WOSG Rebid and VE Items, A&B Bay Station Canopy Roofs, Change to CSC Dev location	($245,000)	80.03 - Contract Allowance
4)	FD-530	City Center Guideway Utilities FD	Executed Change Amendment No. 006 - Management Extension thru October 2014	($952,500)	80.02 - Allocated Contingency
5)	DBB-525	Airport Section Guideway 7 Pier Construction	Executed Change Order No. 001 - HDOT & Utility Relocation at Piers	($480,963)	80.02 - Allocated Contingency
6)	FD-340	Kamehameha Highway Stations Group FD	Executed Change Amendment No. 006 - Misc RFI's Interface Items	($209,176)	80.02 - Allocated Contingency
7)	FD-340	Kamehameha Highway Stations Group FD	Executed Change Amendment No. 006 - Aloha Stadium Low Impact Development Requirement	($43,000)	80.03 - Contract Allowance
			March '15 Contingency Drawdown	**($4,910,639)**	
			March '15 - Ending Contingency Balance	**$510.7**	
April '15			**Beg. Balance**	**$510.7**	
1)	FD-140	West Oahu Stations Group FD	Executed Contract Amendment No. 014 - Redesign of East Kapolei Escalator	($88,000)	80.02 - Allocated Contingency
2)	FD-140	West Oahu Stations Group FD	Executed Contract Amendment No. 014 - Hoopili Grading	($175,000)	80.03 - Contract Allowance
3)	FD-140	West Oahu Stations Group FD	Executed Contract Amendment No. 015 - Redesign of TPSS Trench at SS3 and CSC Cabinets at East Kapolei	($29,000)	80.02 - Allocated Contingency
4)	DBB-525	Airport Section Guideway 7 Pier Construction	Executed Change Order No. 002 - Contractor to Perform CSL Testing	($17,379)	80.02 - Allocated Contingency
5)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 049 - Hazmat Assessment for LCC Portables	($9,174)	80.02 - Allocated Contingency

HART Project Contingency Drawdown with Details

Data as of 1/29/16

#	Project No.	Project Desc.	Budget Transfer/Change Description	Contingency Drawdown (+/-)	Contingency Code
			April '15 Contingency Drawdown	($295,552)	
			April '15 - Ending Contingency Balance	**$510.4**	
		May'15	**Beg. Balance**	**$510.4**	
1)	FD-140	West Oahu Stations Group FD	Executed Contract Amendment No. 018 - PSG/Prev to Canopy Design/Power to Hospitl Sta/Scour Countermeasures	($132,000)	90.03 - Contract Allowance
2)	FD-240	Farrington Highway Stations Group-2 FD	Executed Contract Amendment No. 009 - West Loch Generator	($7,000)	90.03 - Contract Allowance
3)	FD-440	Airport Stations Group FD	Executed Contract Amendment No. 004 - HIA Obstruction Investigation	($20,000)	90.03 - Contract Allowance
4)	DB-320	Kamehameha Highway Guideway DB	Executed Change Order No. 016 - Delay to Method Shaft 8	($121,000)	90.02 - Allocated Contingency
5)	DBOM-920	Core Systems Contract Design Build O/M	Executed Change Order No. 016 - Delete Passenger Counters Onbrd Time -Wifi Provisions on Veh	$114,161	90.02 - Allocated Contingency
6)	DB-200	Maintenance & Storage Facility DB	Executed Change Order No. 030 - OSB 1st Fl Bldg Int Ext System Design Rev	($450,000)	90.02 - Allocated Contingency
			May '15 Contingency Drawdown	($615,839)	
			May '15 - Ending Contingency Balance	**$509.8**	
		Jun'15	**Beg. Balance**	**$509.8**	
1)	MM-923	HDOT Coordination Consult City Center	Budget Transfer from Inactive CPP, HDOT Airport consultant took on City Center scope	$1,094,782	90.01 - Unallocated Contingency
2)	MM-980	Archeological & Cultural Monitoring	Budget Transfer to Provide funding for FY2015	($551,092)	90.01 - Unallocated Contingency
3)	MM-923	HDOT cordi	Executed Contract Amendment No. 013 - Airport Design Build Package	($923,640)	90.02 - Allocated Contingency
4)	MM-901	Program Management Support Const(PMSC-2)	Budget Transfer for excercised option for one year extension of services	($7,818,377)	90.01 - Unallocated Contingency
5)	DBOM-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	($8,198,327)	
			June '15 - Ending Contingency Balance	**$501.7**	
		Jul'15	**Beg. Balance**	**$501.7**	
1)	CCH-100	City and County of Honolulu	Inactive CPP, (D15 costs), reduces budget to incurred costs	$410,596	90.01 - Unallocated Contingency
2)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Contract Change Order No. 065 - Reloc of LCC Portables/Park Lot	($499,979)	90.01 - Unallocated Contingency
3)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Contract Change Order No. 066 - Revise Offset LT Lane at Kahuali'i	($755,983)	90.01 - Unallocated Contingency
4)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Contract Change Order No. 067 - Revised West Yard Lead	($124,505)	90.01 - Unallocated Contingency
5)	DB-200	Maintenance & Storage Facility DB	Executed Contract Change Order No. 031 - MOW Interior Bldg. Systems Devices	($180,000)	90.02 - Allocated Contingency
6)	DB-200	Maintenance & Storage Facility DB	Executed Contract Change Order No. 032 - Deletion of Vegetative Roof Request	$153,416	90.02 - Allocated Contingency
			Jul '15 Contingency Drawdown	($907,456)	
			July '15 - Ending Contingency Balance	**$500.7**	
		Aug'15	**Beg. Balance**	**$500.7**	
1)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Contract Change Order No. 068 - Delay NTP1, 2 & 4 - GMC Escalation	($8,228,445)	90.01 - Unallocated Contingency
2)	DB-200	Maintenance & Storage Facility DB	Executed Contract Change Order No. 033 - EOS Foundation	($44,178)	90.02 - Allocated Contingency
3)	DB-320	Kamehameha Highway Guideway DB	Executed Change Order No. 017 - Relocate Sewer Near 938+00 to 947+00	($181,261)	90.02 - Allocated Contingency
4)	FD-140	West Oahu Stations Group FD	Executed Contract Amendment No. 017 - Power to UHWO Station and Electrical Bonding	($40,000)	90.03 - Contract Allowance
5)	FD-240	Farrington Highway Stations Group-2 FD	Executed Contract Amendment No. 010 - Pedestrian Bridge Modifications	($19,750)	90.03 - Contract Allowance
6)	FD-340	Kamehameha Highway Stations Group FD	Executed Change Amend No. 007 - Value Engineering Reduce Stn Cost and PH, PR and AS New Platform Canopy Coordination	($524,527)	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)	DBOM-920	Core Systems Contract Design Build O/M	Executed Change Order No. 017 - Voltage Flicker Study	($37,950)	90.02 - Allocated Contingency
10)	FD-550	Dillingham Kakaako Stations Group FD	Executed Change Amend No. 00005 - Scope of Change - Schedule Extention	($322,595)	90.02 - Allocated Contingency
			Aug '15 Contingency Drawdown	($7,708,832)	
			Aug '15 - Ending Contingency Balance	**$492.9**	
		Sept'15	**Beg. Balance**	**$492.9**	
1)	DB-320	Kamehameha Highway Guideway DB	Executed Contract Change Order No. 018 - Unknown Subsurface at Boring 422R Utility Varying from RFP	($92,331)	90.02 - Allocated Contingency
			Sept '15 Contingency Drawdown	($92,331)	
			Sept '15 - Ending Contingency Balance	**$492.8**	
		Oct'15	**Beg. Balance**	**$492.8**	
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 - Replenish of NTP4	($80,000)	90.02 - Allocated Contingency
3)	FD-240	Farrington Highway Stations Group-2 FD	Executed Change Amend No. 011 - NTP2 Extention	($50,000)	90.02 - Allocated Contingency
4)	FD-240	Farrington Highway Stations Group-2 FD	Executed Change Amend No. 012 - WL Switchgear Pad & TPSS Foundation	($34,000)	90.02 - Allocated Contingency
5)	FD-140	West Oahu Stations Group FD	Executed Contract Amendment No. 019 - NTP 4 Replenishment	($50,000)	90.02 - Allocated Contingency
6)	FD-140	West Oahu Stations Group FD	Executed Contract Amendment No. 018 - East Kapolei Bent Deflections	($40,000)	90.03 - Contract Allowance
7)	FD-440	Airport Stations Group FD	Executed Contract Amendment No. 006 - General Excise Tax Credit	$88,353	90.02 - Allocated Contingency
8)	DBOM-920	Core Systems Contract Design Build O/M	Executed Change Order No. 018 - Settlement of RFCC 0000.2b(time, Delay Claim resubmittal)	($8,100,000)	90.02 - Allocated Contingency
9)	DBOM-920	Core Systems Contract Design Build O/M	Executed Change Order No. 019 - Credit for four car Consists, eliminates the requirements for mixed fleet operations	$5,200,000	90.02 - Allocated Contingency
			Oct '15 Contingency Drawdown	($3,788,647)	
			Oct '15 - Ending Contingency Balance	**$489.0**	
		Nov'15	**Beg. Balance**	**$489.0**	
1)	DB-200	Maintenance & Storage Facility DB	Executed Contract Change Order No. 035 - Flagpole, Changes to Color Scheme	($45,000)	90.02 - Allocated Contingency
2)	DB-200	Maintenance & Storage Facility DB	Executed Contract Change Order No. 037 - AIS Reconciliation Credit from CCO 0007	$165,304	90.02 - Allocated Contingency
3)	DB-200	Maintenance & Storage Facility DB	Executed Contract Change Order No. 038 - Unpaid Suspension Amounts	($271,374)	90.02 - Allocated Contingency
4)	DB-200	Maintenance & Storage Facility DB	Executed Contract Change Order No. 039 - Escalation of Additional Design Services Due to Schedule	($59,058)	90.02 - Allocated Contingency
5)	MM-970	Fare Collection Consultant	Budget Transfer for Contract Award - MM-970 Fare Collection Consultant	($1,178,300)	90.03 - Contract Allowance
			Nov '15 Contingency Drawdown	($778,328)	
			Nov '15 - Ending Contingency Balance	**$488.2**	
		Dec'15	**Beg. Balance**	**$488.2**	
1)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Contract Change Order No. 069 - Utility Relocate at Waipahu Depot	($200,000)	90.01 - Unallocated Contingency
2)	DB-200	Maintenance & Storage Facility DB	Executed Contract Change Order No. 041 - Re-work of site work due to AIS	($537,653)	90.02 - Allocated Contingency
3)	DB-200	Maintenance & Storage Facility DB	Executed Contract Change Order No. 036 - TWF Building System Design, MOW Interior Bldg Sys Dev pt2 and OSB Interior Bldg Sys Dev Pt2	($130,000)	90.02 - Allocated Contingency
4)	DB-320	Kamehameha Highway Guideway DB	Executed Contract Change Order No. 019 - Relocate Driveway Curb Ramps, HDOT additional scope -design speed	($57,881)	90.02 - Allocated Contingency

HART Project Contingency Drawdown with Details

Data as of 1/29/16

#	Project No.	Project Desc.	Budget Transfer/Change Description	Contingency Drawdown (+/-)	Contingency Code
5)	FD-530	City Center Guideway Utilities FD	Executed Change Amend No. 007 - City Center Repackaging	($14,033)	80.02 - Allocated Contingency
			Dec '15 Contingency Drawdown	($939,967)	
			Dec '15 - Ending Contingency Balance	$487.3	
Jan'16			Beg. Balance	$487.3	
1)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Contract Change Order No. 070 - Equipment Escalation	($708,374)	80.01 - Unallocated Contingency
2)	DB-200	Maintenance & Storage Facility DB	Executed Contract Change Order No. 040 - Layout Direct Fix/Ballasted Turnout	$422,634	80.02 - Allocated Contingency
3)	DB-200	Maintenance & Storage Facility DB	Executed Contract Change Order No. 042 - Mainline Rail Material Quantities	$38,000	80.02 - Allocated Contingency
3)	DBB-525	Airport Section Guideway 7 Pier Construction	Executed Change Order No. 004 - Adjustment for Un-used Allowances	$521,728	80.02 - Allocated Contingency
4)	DBB-525	Airport Section Guideway 7 Pier Construction	Executed Change Order No. 005 - CMP Elevation Change, Access to Pier 549-551R	($68,330)	80.02 - Allocated Contingency
			Jan '16 Contingency Drawdown	$145,658	
			Jan'16 - Ending Contingency Balance	$487.4	
January '16 - Board Approved Changes Only - Pending Execution					
1)	DB-120	West Oahu Farrington Highway Guideway DB	RFCC 00149 - LCC Station Access	($1,447,122)	80.01 - Unallocated Contingency
2)	DB-120	West Oahu Farrington Highway Guideway DB	RFCC 00149 - LCC Campus Impacts	($2,214,613)	80.01 - Unallocated Contingency
			Subtotal Board Approved Contingency Drawdown	($3,661,735)	
			Jan'16 - Ending Contingency Balance (Pending Execution)	$483.8	

Appendix C. Project Cost Reports (data as of Jan. 29, 2016)

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

Project Costs by Contract

HART
HONOLULU AUTHORITY for RAPID TRANSPORTATION

Costs Reported as of Month Ending: January 2016

Project Monthly Cost Report by Contract - One Line Summary

1/29/16

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CPP No	Title		A COMMITTED Original	B COMMITTED Changes	C=A+B COMMITTED Current *	D AFE AFE**	E INCURRED Incurred To Date	F PERCENT %
ART	ART Contracts	T&M	124,000	0	124,000	0	0	0%
CCH-100	Inactive Hart/City CCH		15,348,443	0	15,348,443	0	14,925,228	97%
CCH-101	HART/City Dept of BFS		105,092	0	105,092	0	0	0%
CCH-102	HART/City DDC Land Division		256,201	0	256,201	0	173,182	68%
CCH-107	HART/City Corporation Counsel (COR)		1,616,253	250,000	1,866,253	250,000	152,899	8%
CCH-108	HART / Board of Water Supply (BWS)		928,325	0	928,325	0	928,325	100%
DB-120	West Oahu/Farrington Hwy Guideway DB	SOM	482,924,000	161,000,758	643,924,758	643,924,758	520,950,837	81%
DB-200	Maintenance & Storage Facility DB	SOM	195,258,000	79,427,819	274,685,819	207,716,553	244,796,061	89%
DB-320	Kamehameha Hwy Guideway DB	SOM	372,150,000	16,817,876	388,967,876	389,043,091	201,404,960	52%
DBB-171	West Oahu Station Group DBB	SOV	56,088,470	0	56,088,470	56,088,470	0	0%
DBB-185	SPCD - West Side SG Construction	SOV	0	0	0	0	0	0%
DBB-271	Farrington Highway Station Group DBB	SOV	78,999,000	0	78,999,000	78,999,000	0	0%
DBB-275	SPCD-Pearl Highlands Pkg. Str Cnstr.	SOV	0	0	0	0	0	0%
DBB-371	Kamehameha Hwy Stations Grp. DBB	SOV	115,808,845	0	115,808,845	0	0	0%
DBB-385	Ramp H2R2	SOV	5,203,646	0	5,203,646	5,203,646	177,345	3%
DBB-470	SPCD-Airport Station Group Cnstr.	SOV	0	0	0	0	0	0%
DBB-505	Airport Section Utilities Cnstr. DBB	SOV	27,993,290	0	27,993,290	28,418,574	9,844,953	35%
DBB-510	City Ctr Section Util Cnstr DBB	SOV	0	0	0	0	0	0%
DBB-520	SPCD-Airport-City Center Gdway Cntr.	SOV	0	0	0	0	0	0%
DBB-525	Airport Section Guideway 7 Pier DBB	SOV	3,973,000	54,843	4,027,843	4,027,843	4,027,843	100%
DBB-580	SPCD-Dillingham/Kaka'ako SG Cntr.	SOV	0	0	0	0	0	0%
DBB-600	Park-and-Ride Lots Construction	SOV	0	0	0	0	0	0%
DBOM-920	Core Systems Design Build O/M	SOM	573,782,793	25,318,394	599,101,187	583,588,675	177,772,782	30%
FD-140	West Oahu Station Group FD	SOM	7,789,000	2,275,305	10,064,305	9,926,311	9,199,096	91%
FD-240	Farrington Highway Stations Group FD	SOM	9,300,696	4,981,349	14,282,045	13,939,393	12,577,157	88%
FD-245	SPCD-Pearl Highlands Pkg. Str. FD	SOM	0	0	0	0	0	0%
FD-340	Kamehameha Hwy Station Group FD	SOM	8,702,592	1,156,698	9,859,290	9,828,016	9,177,277	93%
FD-430	SPCD-Airport Sect. Guideway/Util FD	SOM	38,840,960	4,293,512	43,134,472	43,134,472	41,471,470	96%
FD-440	SPCD-Airport Station Group FD	SOM	10,177,365	1,396,487	11,573,852	10,635,793	9,801,978	85%
FD-530	SPCD - City Center Guideway/Util FD	SOM	43,948,220	2,249,342	46,197,562	43,581,241	40,930,503	89%
FD-550	SPCD - Dillingham and Kaka'ako SG FD	SOM	18,321,918	986,124	19,308,042	15,732,737	11,875,868	62%
FD-600	Park-and-Ride Lots Final Design	SOM	0	0	0	0	0	0%
HRT-200	HART Labor		45,951,942	0	45,951,942	0	45,247,479	98%

* Current Committed = Original Contract + CCO/Amendment

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

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HONOLULU AUTHORITY for RAPID TRANSPORTATION

Costs Reported as of Month Ending: January 2016

Project Monthly Cost Report by Contract - One Line Summary

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CPP No	Title		A COMMITTED Original	B COMMITTED Changes	C=A+B COMMITTED Current *	D AFE AFE**	E INCURRED Incurred To Date	F PERCENT %
HRT-201	HART ODC Contracts		15,931,154	0	15,931,154	130,100	19,219,703	121%
MI-900	Fare Collection DFI	MI	0	0	0	0	0	0%
MI-930	Elevators & Escalators Install/Maint	SOM	50,982,714	0	50,982,714	5,442,108	5,207,281	10%
MM-280	SPCD-WOFH/KHSG CE&I(REPACKAGED)	CPFF	0	0	0	0	0	0%
MM-290	Construction Engrg & Insp CEI West	CPFF	54,232,480	0	54,232,480	16,650,000	22,739,487	42%
MM-385	SPCD-Pearl Highlands Garage Rmps CEI	CPFF	0	0	0	0	0	0%
MM-500	SPCD-By MM959 CEI East	CPFF	0	0	0	0	0	0%
MM-525	SPCD-By MM959 CEI East	CPFF	0	0	0	0	0	0%
MM-590	SPCD-By MM959 CEI East	CPFF	0	0	0	0	0	0%
MM-595	SPCD - Const. Engrg & Insp. CEI East	CPFF	63,083,417	-47,826,417	15,257,000	(32,569,417)	12,382,150	81%
MM-596	Construction Engrg & Insp CEI East 2	CPFF	55,036,130	0	55,036,130	55,036,130	994,809	2%
MM-600	SPCD-UHWO Pkg-Hoopili Stn Frsh CEI	CPFF	0	0	0	0	0	0%
MM-900	Program Mgt Support Conslt (PMSC-1)	CPFF	15,952,569	0	15,952,569	20,700,000	0	0%
MM-901	Program Mgt Support Conslt (PMSC-2)	CPFF	33,376,897	7,616,377	40,993,274	34,297,167	38,296,561	93%
MM-905	MM-905 Gen Engrg Conslt EIS/PE	CPFF	0	78,564,942	78,564,942	78,564,942	74,157,822	94%
MM-910	MM-910 Gen Engrg Conslt FD-Construct	CPFF	150,000,000	0	150,000,000	150,000,000	149,446,962	100%
MM-913	MM-913 Gen Engrg Recompete	CPFF	46,143,277	268,451	46,411,728	31,214,951	24,952,730	54%
MM-915	HDOT Traffic Mgmt. Consult.	T&M	1,600,000	2,400,000	4,000,000	5,000,000	3,046,304	76%
MM-920	HDOT Coordination Conslt WOFH	T&M	3,000,000	7,500,000	10,500,000	10,000,000	6,614,555	63%
MM-921	HDOT Coordination Conslt KHG	T&M	10,000,000	-1,400,000	8,600,000	5,000,000	4,007,909	47%
MM-922	HDOT Coordination Conslt. Airport	T&M	12,000,000	-5,600,000	6,400,000	3,000,000	2,554,231	40%
MM-923	HDOT Coordination Conslt City Center	T&M	0	0	0	0	0	0%
MM-925	HDOT Labor - WOFH/KHG Agreements	T&M	550,000	1,265,633	1,815,633	3,081,266	1,686,057	93%
MM-926	HDOT Labor - Airport Agreements	T&M	0	0	0	0	0	0%
MM-930	HDOT State SOA Manager & Consultant	T&M	1,272,400	583,142	1,855,542	843,167	873,849	47%
MM-935	Real Estate Consultant	T&M/TI	3,000,000	4,227,665	7,227,665	7,227,165	5,878,445	81%
MM-937	Real Estate Consultant - Maps/Surv.	CPFF	2,998,000	0	2,998,000	1,500,000	508,128	17%
MM-940	Kako'o Consultant	T&M/TI	1,000,000	0	1,000,000	500,000	521,592	52%
MM-941	Kako'o Consultant II	CPFF	200,000	0	200,000	200,000	0	0%
MM-945	On-Call Contractor	T&M/TI	1,000,000	1,000,000	2,000,000	1,800,000	1,927,308	96%
MM-946	On-Call Hazmat Removal Contractor	T&M/TI	3,075,000	0	3,075,000	1,000,000	2,639,856	86%
MM-947	On-Call Contractor 2	T&M/TI	7,500,000	0	7,500,000	4,500,000	2,815,972	38%
MM-950	OCIP Consultant	FFF	1,250,000	0	1,250,000	1,250,000	989,844	79%

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HONOLULU AUTHORITY for RAPID TRANSPORTATION

Costs Reported as of Month Ending: January 2016

Project Monthly Cost Report by Contract - One Line Summary

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CPP No	Title		A COMMITTED Original	B COMMITTED Changes	C=A+B COMMITTED Current *	D AFE AFE**	E INCURRED Incurred To Date	F PERCENT %
MM-951	Owner-Controlled Insurance Program	FFF	41,000,000	0	41,000,000	0	26,494,012	65%
MM-960	Archeological & Cultural Monitoring	T&M	1,658,474	0	1,658,474	1,010,609	1,304,910	79%
MM-962	Core Systems Support	CPFF	43,988,989	0	43,988,989	3,600,000	13,409,220	30%
MM-964	Safety and Security Consultant	FFF	4,699,573	112,751	4,812,324	4,012,751	2,880,036	60%
MM-970	Fare Collection Consultant	MM	1,184,398	0	1,184,398	1,178,300	0	0%
MM-975	LEED Commissioning Services for MSF	T&M	278,630	9,910	288,540	288,540	137,295	48%
O&M	Operating/Maintenance Contracts	FFF	280,970	-58,970	222,000	141,000	199,030	90%
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 HPC	T&M/TI	400,000	0	400,000	200,000	176,809	44%
PA-103	Programmatic Agreement HPC Park Impr	PA	0	0	0	0	0	0%
ROW	Real Estate / Right-of-Way		99,885,511	0	99,885,511	121,992	94,265,872	94%
UTIL	Utility Company Contracts	T&M	95,526,631	-2,646,298	92,880,333	71,077,643	44,985,964	48%
Total Project:			**2,935,679,264**	**346,225,692**	**3,281,904,956**	**2,630,036,985**	**1,920,749,741**	

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Project Costs by SCC – Summary

HONOLULU AUTHORITY for RAPID TRANSPORTATION

Costs Reported as of Month Ending: January 2016

Project Monthly Cost Report by SCC Summary

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		A	B	C=A+B	D	E	F	G	H=C-G	I
		BUDGET			COMMITTED	AFE	ESTIMATE AT COMPLETION			INCURRED
SCC	Title	Baseline	Transfers	Current	Current *	AFE**	Changes ID'd***	Est. At Completion****	Variance	Incurred To Date
1. Subtotal 10 - 80 SCC Costs										
10. Guideway & Track Elements		1,114,215,147	44,846,259	1,159,061,406	549,901,852	36,027,088	(2,189,484)	1,159,061,406	0	291,852,524
20. Stations,Stops,Terminals,Intermodal		421,804,740	(3,205,951)	418,598,789	301,879,029	0	0	418,598,789	0	5,207,281
30. Support Facilities;Yards,Shops, Admin		92,535,015	22,702,810	115,237,825	115,237,825	18,894,161	0	115,237,825	0	92,276,667
40. Sitework & Special Conditions		983,178,121	23,505,614	1,006,683,735	730,049,203	163,148,188	6,398,058	1,006,683,735	0	546,734,745
50. Systems		221,284,301	27,474,531	248,758,832	233,604,717	27,038,099	0	248,758,832	0	39,535,841
60. ROW, Land, Existing Improvements		197,397,947	528,621	197,926,568	104,102,326	1,216,815	5,000,000	197,926,568	0	100,461,132
70. Vehicles		186,829,020	4,645,501	191,474,521	191,474,521	1,446,224	0	191,474,521	0	35,564,255
80. Professional Services		1,087,830,119	35,621,029	1,123,451,148	1,048,998,571	99,386,704	605,099	1,123,451,148	0	786,500,144
A.C. Provisional Pay Requests		0	0	0	0	0	0	0	0	22,024,727
Subtotal:		4,305,074,410	156,118,414	4,461,192,824	3,275,248,045	347,157,279	9,813,673	4,461,192,824	0	1,920,157,316
2. NTP										
NTP Authorized For Expediture		0	0	0	0	2,278,860,587	0	0	0	0
Subtotal:		0	0	0	0	2,278,860,587	0	0	0	0
3. Contingency										
CNTR Allocated Contingency		541,689,343	(98,967,135)	442,722,208	6,656,911	4,019,120	273,613,098	442,722,208	0	592,425
PRJ Unallocated Contingency		101,871,170	(57,151,279)	44,719,891	0	0	0	44,719,891	0	0
Subtotal:		643,560,513	(156,118,414)	487,442,099	6,656,911	4,019,120	273,613,098	487,442,099	0	592,425
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
FTA TOTAL PROJECT COSTS		**5,121,693,166**	**0**	**5,121,693,166**	**3,281,904,956**	**2,630,036,985**	**283,426,772**	**5,121,693,166**	**0**	**1,920,749,741**
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**	**3,281,904,956**	**2,630,036,985**	**283,426,772**	**5,163,693,166**	**0**	**1,920,749,741**

* Current Committed = Original Contract + CCO/Amendment

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*** 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

HONOLULU AUTHORITY for RAPID TRANSPORTATION

Costs Reported as of Month Ending: January 2016

Project Monthly Cost Report by SCC Details

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SCC	Title	A Baseline	B Transfers	C=A+B Current	D Committed Current *	E AFE AFE**	F Changes ID'd***	G Est. At Completion****	H=C-G Variance	I Incurred To Date
		BUDGET			COMMITTED	AFE	ESTIMATE AT COMPLETION			INCURRED
1. Subtotal 10 - 80 SCC Costs										
10.	Guideway & Track Elements	1,114,215,147	44,846,259	1,159,061,406	549,901,852	36,027,088	(2,189,484)	1,159,061,406	0	291,852,524
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	42,558,292	1,064,938,963	465,287,209	27,053,555	(2,189,484)	1,064,938,963	0	240,308,507
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	2,392,250	81,739,455	73,932,259	8,925,279	0	81,739,455	0	51,495,763
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	30,876
20.	Stations, Stops, Terminals, Intermodal	421,804,740	(3,205,951)	418,598,789	301,879,029	0	0	418,598,789	0	5,207,281
20.01	At-grade station, stop, shelter,..	6,111,332	(6,111,332)	0	0	0	0	0	0	0
20.02	Aerial Station, stop, shelter,mall	294,563,457	6,643,853	301,207,310	250,896,315	0	0	301,207,310	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	5,207,281
30.	Support Facilities;Yards,Shops, Admin	92,535,015	22,702,810	115,237,825	115,237,825	18,894,161	0	115,237,825	0	92,276,667
30.01	Administration Bldg: Office, sales	0	205,266	205,266	205,266	205,266	0	205,266	0	191,435
30.02	Light Maintenance Facility	7,591,888	(5,095)	7,586,793	7,586,793	0	0	7,586,793	0	4,793,299
30.03	Heavy Maintenance Facility	38,099,138	5,108,668	43,207,806	43,207,806	5,350,776	0	43,207,806	0	30,360,549
30.04	Storage or Maintenance of Way Buil	7,797,460	819,670	8,617,130	8,617,130	881,220	0	8,617,130	0	6,993,345
30.05	Yard and Yard Track	39,046,529	16,574,301	55,620,830	55,620,830	12,456,899	0	55,620,830	0	49,938,039
40.	Sitework & Special Conditions	983,178,121	23,505,614	1,006,683,735	730,049,203	163,148,188	6,398,058	1,006,683,735	0	546,734,745
40.01	Demolition, Clearing, Earthwork	29,980,158	(9,343,660)	20,636,498	10,527,249	1,229,005	245,000	20,636,498	0	2,882,002
40.02	Site Utilities, Utility Relocation	299,449,756	(519,014)	298,930,742	195,851,841	4,047,015	94,081	298,930,742	0	115,606,443
40.03	Haz. mat'l, contam'd soil removal	9,199,237	(5,288,631)	3,910,606	3,434,088	149,088	(391,304)	3,910,606	0	2,788,944
40.04	Environmental Mitigation	26,979,122	4,990,976	31,970,098	16,557,672	16,864	0	31,970,098	0	11,384,137
40.05	Site structures, retaining walls,	7,998,960	6,540,840	14,539,800	10,221,628	274,780	4,647,403	14,539,800	0	4,970,987
40.06	Pedestrian/bike access/landscaping	41,073,897	(6,105,894)	34,968,003	5,219,868	(4,566)	478,020	34,968,003	0	50,000
40.07	Auto, bus, van accessways	181,979,367	(18,453,760)	163,525,607	37,644,758	1,577,242	1,324,858	163,525,607	0	5,533,464
40.08	Temporary Facilities/Indirect Cost	386,517,624	51,684,757	438,202,381	450,592,101	155,858,760	0	438,202,381	0	403,518,768
50.	Systems	221,284,301	27,474,531	248,758,832	233,604,717	27,038,099	0	248,758,832	0	39,535,841
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	29,500,926	1,379,880	30,880,806	30,880,806	(87,485)	0	30,880,806	0	4,751,819

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

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HONOLULU AUTHORITY for RAPID TRANSPORTATION

Costs Reported as of Month Ending: January 2016

Project Monthly Cost Report by SCC Details

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SCC	Title	A	B	C=A+B	D	E	F	G	H=C-G	I
		BUDGET			COMMITTED	AFE	ESTIMATE AT COMPLETION			INCURRED
		Baseline	Transfers	Current	Current *	AFE**	Changes ID'd***	Est. At Completion****	Variance	Incurred To Date
1. Subtotal 10 - 80 SCC Costs										
50. Systems		221,284,301	27,474,531	248,758,832	233,604,717	27,038,099	0	248,758,832	0	39,535,841
50.04	Traction power distribution: cate	32,878,150	5,059,838	37,937,988	33,029,111	7,941,115	0	37,937,988	0	16,942,495
50.05	Communications	53,691,339	6,133,477	59,824,816	59,824,816	5,573,419	0	59,824,816	0	16,722,456
50.06	Fare collection system and equipme	9,159,277	(9,112,878)	46,399	52,497	(10,350,000)	0	46,399	0	(1,131,901)
50.07	Central Control	3,613,827	(160,036)	3,453,791	3,453,791	0	0	3,453,791	0	0
60. ROW, Land, Existing Improvements		197,397,947	528,621	197,926,568	104,102,326	1,216,815	5,000,000	197,926,568	0	100,461,132
60.01	Purchase or lease of real estate	179,360,664	250,821	179,611,485	91,256,849	39,015	5,000,000	179,611,485	0	88,992,869
60.02	Relocation of existing households	18,037,283	277,800	18,315,083	12,845,477	1,177,800	0	18,315,083	0	11,468,262
70. Vehicles		186,829,020	4,645,501	191,474,521	191,474,521	1,446,224	0	191,474,521	0	35,564,255
70.01	Light Rail	166,721,386	5,847,191	172,568,577	172,568,577	1,446,224	0	172,568,577	0	27,771,794
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
70.07	Spare parts	5,760,711	118,685	5,879,396	5,879,396	0	0	5,879,396	0	0
80. Professional Services		1,087,830,119	35,621,029	1,123,451,148	1,048,998,571	99,386,704	605,099	1,123,451,148	0	786,500,144
80.01	Preliminary Engineering	94,055,262	24,644,185	118,699,447	109,567,127	20,905,682	0	118,699,447	0	103,615,648
80.02	Final Design	228,321,632	(6,894,093)	221,427,539	205,063,191	30,351,265	(4,959,963)	221,427,539	0	165,482,729
80.03	Project Management Design & Cons	363,849,768	(28,315,655)	335,534,113	382,637,089	73,840,690	(17,504,214)	335,534,113	0	316,416,743
80.04	Constr. Admin. & Management	199,656,728	(35,030,307)	164,626,421	111,535,544	(42,849,088)	0	164,626,421	0	86,260,814
80.05	Professional Liability & other Ins	46,549,724	28,781,938	75,331,662	43,174,657	700,500	0	75,331,662	0	28,443,156
80.06	Legal; Permits,Review Fees ect..	67,641,005	(3,206,464)	64,434,541	38,203,525	5,032,053	0	64,434,541	0	21,511,322
80.07	Surveys, Testing, Investigation, I	21,759,336	47,172,110	68,931,446	101,200,960	1,496,194	0	68,931,446	0	30,669,640
80.08	Start up	65,996,664	8,469,316	74,465,980	57,616,477	9,909,409	(575,809)	74,465,980	0	34,100,093
80.09		0	0	0	0	0	23,645,085	0	0	0
A C. Provisional Pay Requests		0	0	0	0	0	0	0	0	22,024,727
ACR	Provisional Request For Payment	0	0	0	0	0	0	0	0	22,024,727
Subtotal:		4,305,074,410	156,118,414	4,461,192,824	3,275,248,045	347,157,279	9,813,673	4,461,192,824	0	1,920,157,316
2. NTP										
NTP Authorized For Expediture		0	0	0	0	2,278,860,587	0	0	0	0
NTP	Notice To Proceed	0	0	0	0	2,278,860,587	0	0	0	0
Subtotal:		0	0	0	0	2,278,860,587	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

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HONOLULU AUTHORITY for RAPID TRANSPORTATION

Costs Reported as of Month Ending: January 2016

Project Monthly Cost Report by SCC Details

1/29/16

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SCC	Title	A	B	C=A+B	D	E	F	G	H=C-G	I
		BUDGET			COMMITTED	AFE	ESTIMATE AT COMPLETION			INCURRED
		Baseline	Transfers	Current	Current *	AFE**	Changes ID'd***	Est. At Completion****	Variance	Incurred To Date
3. Contingency										
CNTR	Allocated Contingency	541,689,343	(98,967,135)	442,722,208	6,656,911	4,019,120	273,613,098	442,722,208	0	592,425
90.02	Allocated Contract Contingency	540,101,329	(101,140,864)	438,960,465	4,019,120	4,019,120	271,579,371	438,960,465	0	592,425
90.03	Allowances	1,588,014	2,173,729	3,761,743	2,637,791	0	2,033,727	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	(57,151,279)	44,719,891	0	0	0	44,719,891	0	0
90.01	Unallocated Project Contingency	101,871,170	(57,151,279)	44,719,891	0	0	0	44,719,891	0	0
Subtotal:		643,560,513	(156,118,414)	487,442,099	6,656,911	4,019,120	273,613,098	487,442,099	0	592,425
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		5,121,693,166	(0)	5,121,693,166	3,281,904,956	2,630,036,985	283,426,772	5,121,693,166	0	1,920,749,741
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	3,281,904,956		283,426,772	5,163,693,166	0	1,920,749,741

* 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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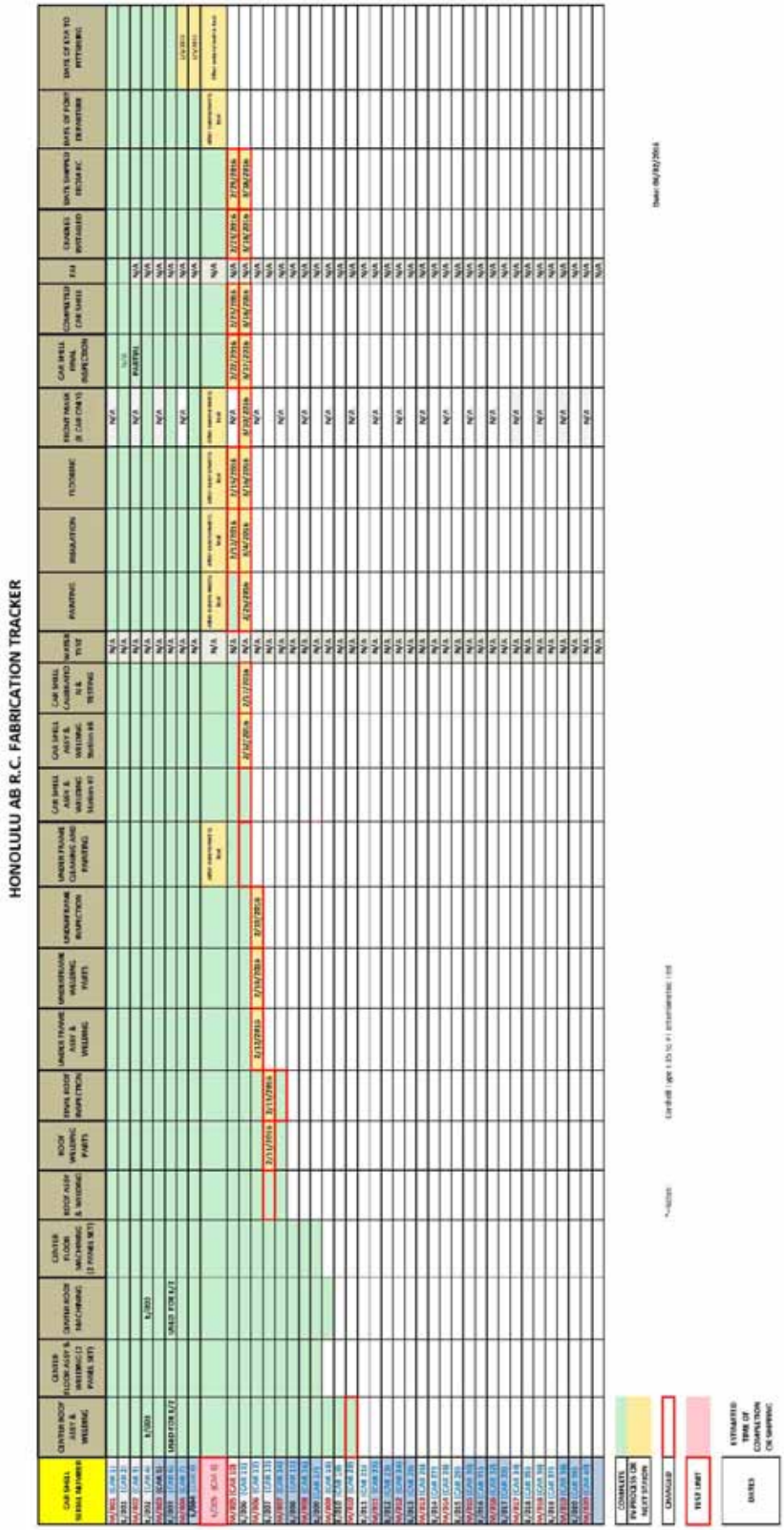
Appendix D. Procurement and Contract Status

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	May 02 '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 20 '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	Jan 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-941	Section 106 Programmatic Agreement Project Manager Kāko'o II	Honua Consulting	Jun 26 '15	Dec 08 '15	Jan 04 '16	2 years + option to extend up to 4 years
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	May 02 '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) "II" Contract	Stantec Consulting Services	Mar 25 '15	Sep 10 '15	Sep 14 '15	Dec 31 '19
MM-970	Fare Collection System Technical Support Consultant	CH2M HILL	Mar 24 '15	Oct 22 '15	Oct 23 '15	Dec 31 '19
DBB-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	Mar 07 '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
DBB-371	Kamehameha Hwy Stations Group Construction	Nan, Inc.	Aug 18 '15	Nov 17 '15	TBD	NTP+ 32 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	Mar 22 '16	TBD	NTP + 53 months
DB-550	City Center Guideway and Stations	Aug 04 '15	Nov 18 '15	Jul 14 '16	TBD	NTP + 50 months
MI-900	Fare Systems Contract	Aug 11 '15	Nov 13 '15	-	Apr 14 '16	NTP + 120 months + 2 year option
	Independent Financial Auditor "II" Contract	Oct 26 '15	Dec 01 '15	-	TBD	NTP + 48 months
MM-947	On-Call Construction Contract "III"	Feb 23 '16	Mar 31 '16	-	TBD	NTP + 84 months
MM-981	Complex Real Property Negotiations and Litigation Support Contract	Feb 23 '16	Apr 04 '16	-	TBD	NTP + 24 months + 2 year option
DBB-600	East Kapolei and UH/West O'ahu Park and Ride Lots	Nov 14 '16	Feb 15 '17	-	Apr 03 '17	Mar 01 '19

Appendix E. Vehicle Carshell Progress Tracker



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 2/29/16)						
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	$69,339	$205,955
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	$81,581	
				CT-DTS-1100195 DB-320	$60,714	$679,326
Pacific Preferred Contractors Corp.	237310	APA	M	CT-HRT-10H0137 DB-120	$85,043	$85,043
PAC Electric	238210	APA	F	CT-HRT-10H0137 DB-120	$5,836,436	$5,836,436
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	$271,047	
				SC-HRT-1400049 MM-962	$319,949	$5,974,735
Lawson & Associates	541690	O	F	SC-HRT-11H0131 MM-905	$740,962	
				SC-DTS-0700001 **** MM-910	$150,141	
				SC-HRT-1400061 MM-964	$1,125,620	$2,016,723
Gary K. Omori	541618	APA	M	SC-HRT-11H0131 MM-905	$388,609	

DBE Participation (9/24/07 to 2/29/16)						
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	$817,270	$952,551
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	$1,506,887	$1,506,887
PSC Consultants	541330	APA	M	SC-HRT-1400050 MM-290	$544,183	
				SC-HRT-1400051 MM-595	$10,197	$554,380
Bow Construction Management	541330	APA	M	SC-HRT-1400050 MM-290	$121,532	$121,532
FIC, LLC	541611	APA	M	SC-HRT-1400051 MM-595	$1,299,481	$1,299,481
The Solis Group	541620	O	F	SC-HRT-1400027 MM-913	$1,153,505	$1,153,505
Island Hauling	484110	APA	M	CT-HRT-1000449 DB-200	$272,490	$272,490
ADS System Safety Consulting *****	541620	BA	M	SC-HRT-1400061 MM-964	$1,594,410	$1,594,410
Dovetail Consulting	541330	BA	F	MOU-11-SO-1 MM-930	$847,741	$847,741
Amazon Construction Co.	238990	APA	F	CT-HRT-1500056 MM-945	$446,558	$446,558

DBE Participation (9/24/07 to 2/29/16)						
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	
				CT-HRT-1400323 DBB-505	$34,988	$35,164
Carol Kwan Consulting	561730	O	F	CT-HRT-1500056 MM-945	$13,291	$13,291
Total						**$32,092,244**

** 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

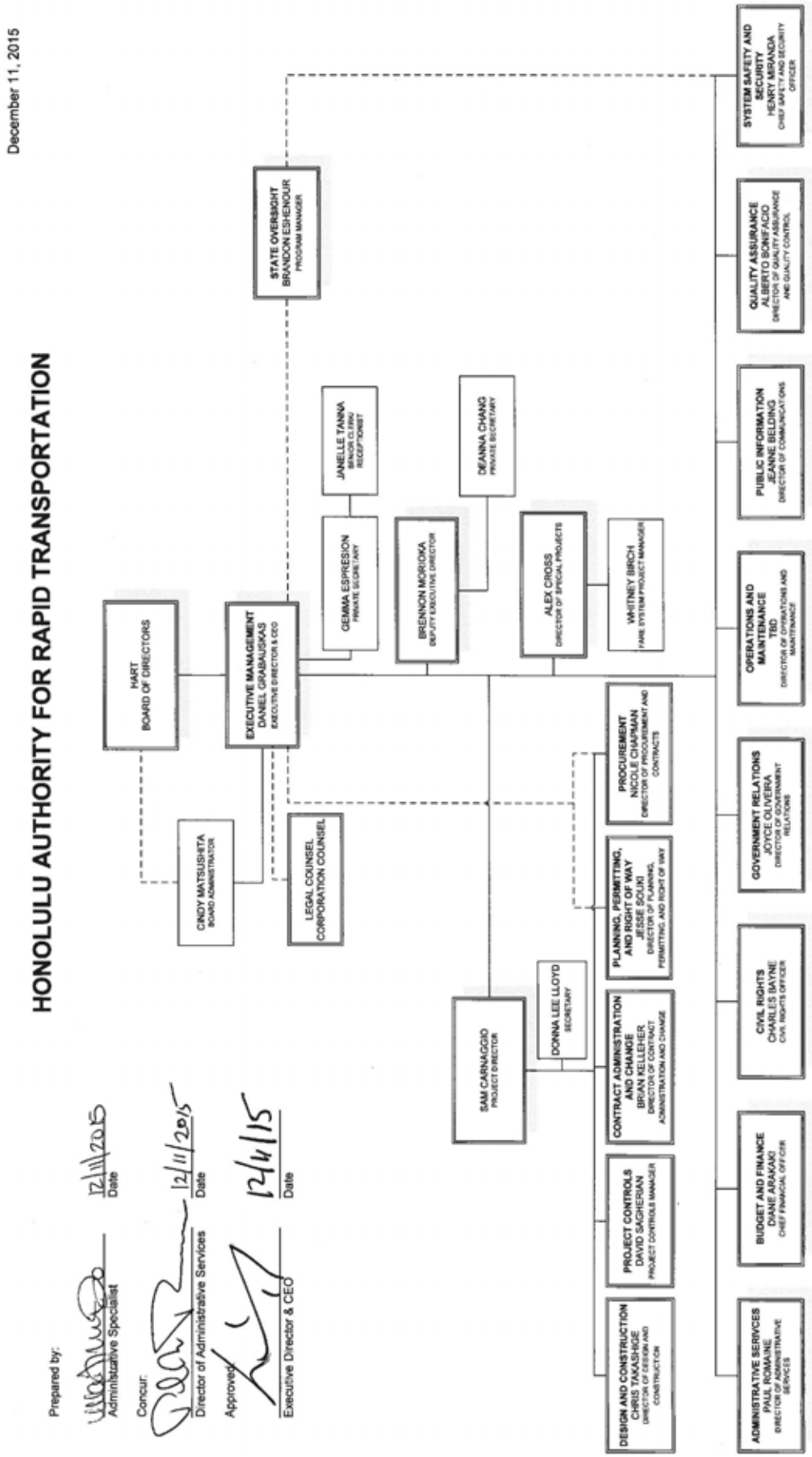
Appendix G. Risk

Risk by Contract Package				
Contract Packages(Notes)	Jan. 2016 # of Risks	February 2016 Update		
		Total # of Risks	New Risks	Deleted Risks
Project Wide	6	6	0	0
West Oahu/Farrington Guideway(1)	15	11	0	4
Pearl Highlands Garage	4	4	0	0
Maintenance and Storage Facility(2)	4	5	1	0
Kamehameha Highway Guideway(3)	15	16	1	0
Core Systems Contract(4)	9	10	1	0
Elevator/Escalator	4	4	0	0
Airport Utilities	4	4	0	0
Farrington Highway Stations	5	5	0	0
Ramp H2R2	1	1	0	0
West Oahu Stations	5	5	0	0
Kamehameha Highway Stations(5)	5	4	0	1
Airport Guideway & Stations	26	26	0	0
City Center Guideway & Stations	34	34	0	0
Total	**137**	**135**	**3**	**5**

Notes:
(1) - Three risks (74.03, 97.03, and 115.03) deleted and one risk (196.03) shifted from WOFH to KHG (now 196.04).
(2) - One new risk (201.07) added for MSF.
(3) - One risk (196.04) was transferred to KHG from WOFH (was 196.03).
(4) - One new risk (202.08) added for CSC.
(5) - One risk (145.12) deleted from KHSG.

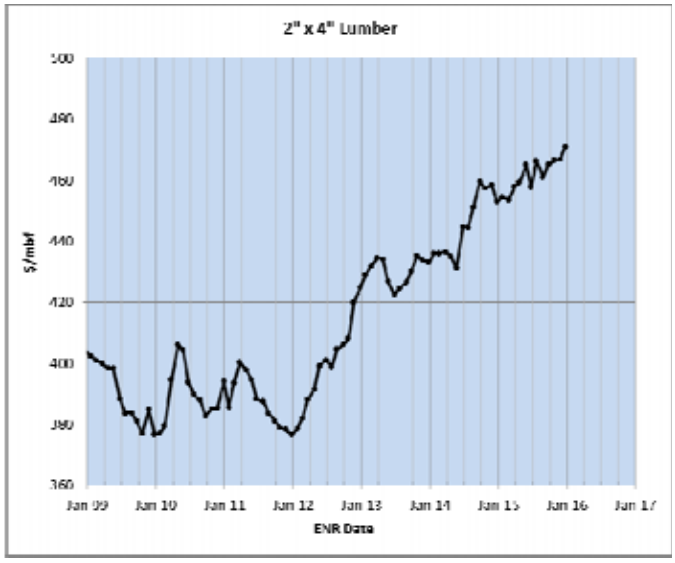
Comparison of Risk Ratings								
Contract Package/Section	January 2016 # of Risks				February 2016 Update # of Risks			
	Total	High	Medium	Low	Total	High	Medium	Low
Project Wide	6	2	3	1	6	2	3	1
West Oahu/Farrington Guideway	15	1	12	2	11	1	8	2
Pearl Highlands Garage	4	1	3	0	4	1	3	0
Maintenance and Storage Facility	4	0	1	3	5	0	2	3
Kamehameha Highway Guideway	15	2	8	5	16	2	10	4
Core Systems Contract	9	1	6	2	10	1	7	2
Elevator/Escalator	4	2	2	0	4	2	2	0
Airport Utilities	4	1	2	1	4	1	2	1
Farrington Highway Stations	5	1	4	0	5	1	4	0
Ramp H2R2	1	0	1	0	1	0	1	0
West Oahu Stations	5	0	5	0	5	0	5	0
Kamehameha Highway Stations	5	0	4	1	4	0	3	1
Airport Guideway & Stations	26	4	20	2	26	4	20	2
City Center Guideway & Stations	34	10	20	4	34	10	21	3
Total	**137**	**25**	**91**	**21**	**135**	**25**	**91**	**19**

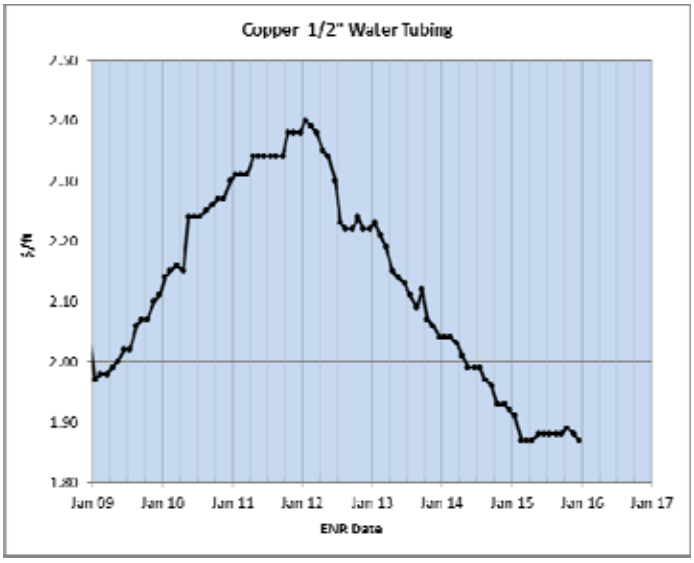
Appendix H. Project Organization Chart

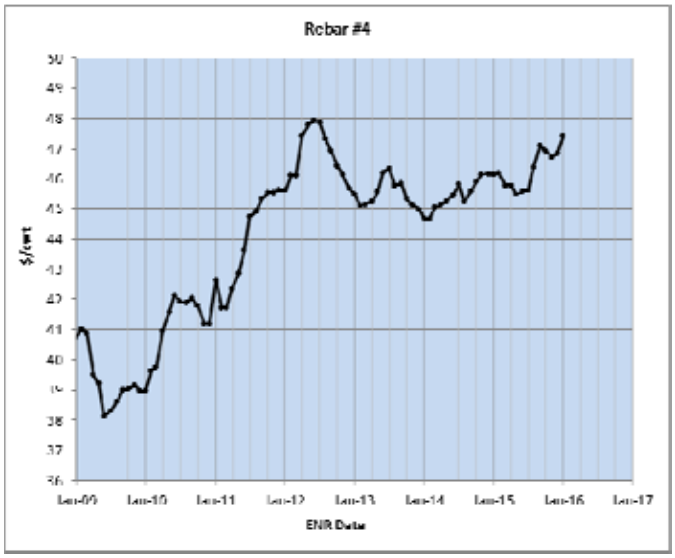


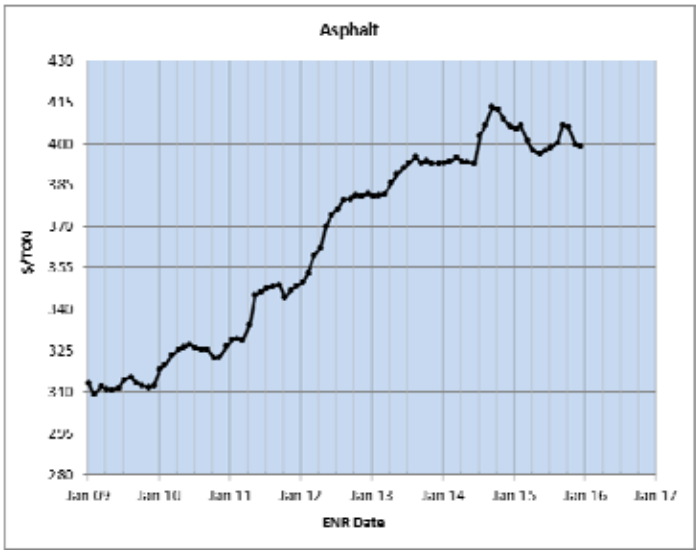
Appendix I. Indices on Key Commodities

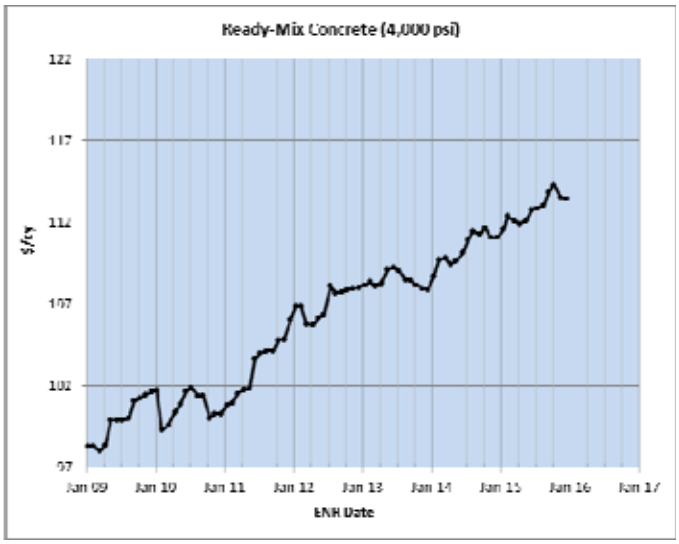
The following charts represent the cost trends on some of the key materials used in the program.

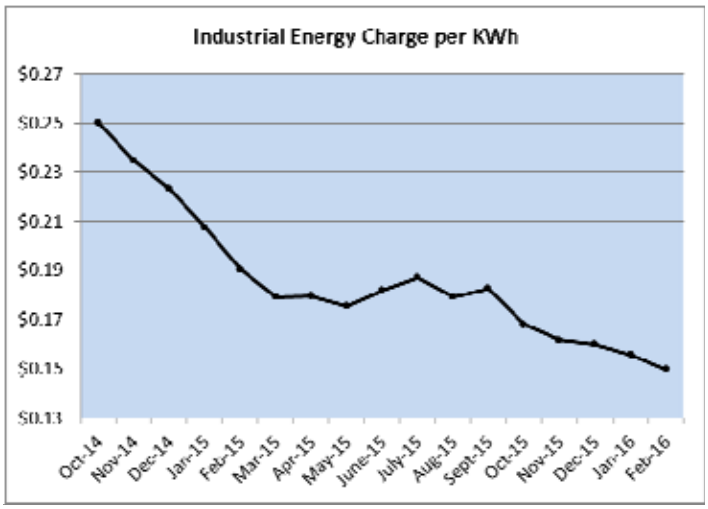












Source: HECO: Effective Rate Summary for P Rate

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.