Honolulu High Capacity Transit Corridor Project
Contract Packaging Plan

Rev2 February 5, 2009

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Introduction

The Contract Packaging Plan and associated schedule were developed in mid-September 2008 in response to a request from FTA's PMO Risk Assessment Consultant to have a comprehensive overall schedule which includes the gap between the GEC's PE schedule and the construction program schedule. The request also suggested that the program schedule highlight various FTA review activities required as a precedent to the negotiation of a Full Funding Grant Agreement (FFGA).

At the time of preparing this document, the City and County of Honolulu (City) is seeking FTA authorization to enter Preliminary Engineering for the project. The Administrative Draft Environmental Impact Statement is under review and work is continuing on advanced conceptual engineering.

A complete description of the Project and the organization being utilized by the City to implement the Project during the PE Phase can be found in the Project Management Plan.

The City intends to implement the project following Preliminary Engineering within the Rapid Transit Division (RTD) of the City's Department of Transportation Services (DTS).

To augment its direct staff on the project, the City also intends to use a Program Management Consultant (PMC) who would fill certain specialized positions within the RTD team.

RTD also intends to select a General Construction Manager to oversee all remaining services, procurement and construction on the project. The responsibilities of the General Construction Manager (GCM) will be to assist the City in oversight of all of the Project's design, construction, procurement, manufacturing, installation, testing and commissioning.

While a portion of the Project construction will be procured by the Design-Build (DB) method, most of the project will be implemented through the procurement of individual design organizations under Service contracts (SV) who will prepare design documents for individual construction packages to be procured with the Design-Bid-Build (DBB) method. The work of these individual package design teams will be overseen by the GCM. Two project wide contracts are currently proposed to be issued as Manufacture-Install (MI) contracts (for Systems including Vehicles and for Elevators/Escalators). Two project wide contracts are proposed to be Owner Furnish (OF) contracts (for Ticket Vending Machines and for Plants/Shrubs).

In Section 3 each of the 35 contracts are identified. In Sections 6 thru 10 information is provided on each contract on scope, schedule, budget, type of contract, responsible party and interface with other contracts.

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Synopsis of Changes

1) Revs made Nov 3 thru 5, 2008 to Contract Packaging Plan include renumbering of contracts and revs to schedule dates to be consistent with latest project schedule data. Rev #s added to all sheets. Revs made by I Hubbard.
Rev data stored on ProjectSolve at

2) Revs made February 4, 2009 to include Replace Salt lake Alignment with the Airport Alignment.

3)

(Information to be inserted when Contract packages added or revised.)

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Procurement Packaging Contract Summary:

The Table below reflects the current thinking about procurement packaging which identifies 35 individual contracts although it is to be expected that there will be others added as program definition is further developed. Furthermore this particular breakout of contracts is subject to modification during Preliminary Engineering. The contracts reflected in the schedule include:

	Contract #	Activity #
Service Contracts (14)		
Program Management Support	SV-900	S100 S120
General Construction Management	SV-910	V100 V120
Kamehameha Utility & Guideway Design	SV-330	K108 K110 K120
Airport Utility & Guideway Design	SV-430	G120 G130 G140
City Center Utility & Guideway Design	SV-530	C100 C110 C120
West Oahu Stations (3) Design	SV-140	X100 X110
Farrington Stations (3) Design	SV-240	R120 R130
H2 Ramps at Pearl Highlands Park Facility	SV-230	R500 R510
Pearl Highlands Station & Multi Level Park Facility	SV-245	R320 R330
Kamehameha Stations (2) Design	SV-340	J100 J110
Airport Stations (4) Design	SV-440	H100 H110
Dillingham Stations (3) Design	SV-540	tbd
City Center Stations (3) Design	SV-542	U100 U110
Kaka'ako Stations (3) Design	SV-545	Y100 Y110
Design-Build Construction Contracts (2)		
West Oahu/Farrington Guideway & Utilities	DB-1200	W100 W110 W120
Maintenance & Storage Facility Construction	DB-200	M100 M110 M120
Design-Bid-Build Construction Contracts (15)		
Kamehameha Utility Relocations	DBB-350	K200 K210
Salt Lake Utility Relocations	DBB-450	G200 G230
City Center Utility Relocations	DBB-550	C200 C210
Kamehameha Guideway Construction	DBB-360	K300 K310
Airport Guideway Construction	DBB-460	G300 G310
City Center Guideway Construction	DBB-560	C300 C310
West Oahu Stations (3) Construction	DBB-170	X200 X210
Farrington Stations (3) Construction	DBB-270	R200 R210 R250

		R260
Pearl Highlands Station & Multi Level Park Facility	DBB-275	R400 R410 R420
H2 Ramps at Pearl Highlands Park Facility	DBB-260	R600 R610
Kamehameha Stations (2) Construction	DBB-370	J200 J210 J220 J230
Airport Stations (3) Construction	DBB-470	H100 H110
Dillingham Stations (3) Construction	DBB-570	tbd
City Center Stations (3) Construction	DBB-572	U200 U210 U220 U330
Kaka'ako Stations (3) Construction	DBB-575	Y200 Y210 Y220 Y230

Manufacture & Install Contracts (2)		
Vehicles/Systems procure, install, test,commission	MI-920	P320 P380 P420 P460 P470 T250
Elevators/Escalators procure,install,test,commission	MI-930	L100 L110

Owner Furnish Contracts (2)		
Owner Furnish ticket Vending Machines	OF-940	TBD
Owner Furnish Plants & Shrubs	OF-950	TBD

In Sections 6 thru 10 each of these contracts are identified by a Contract Number (e.g. DBB-460), a CPM Schedule activity code (e.g. I-740) and details are provided on scope, schedule, budget, type of contract, responsible party and interface with other contracts.

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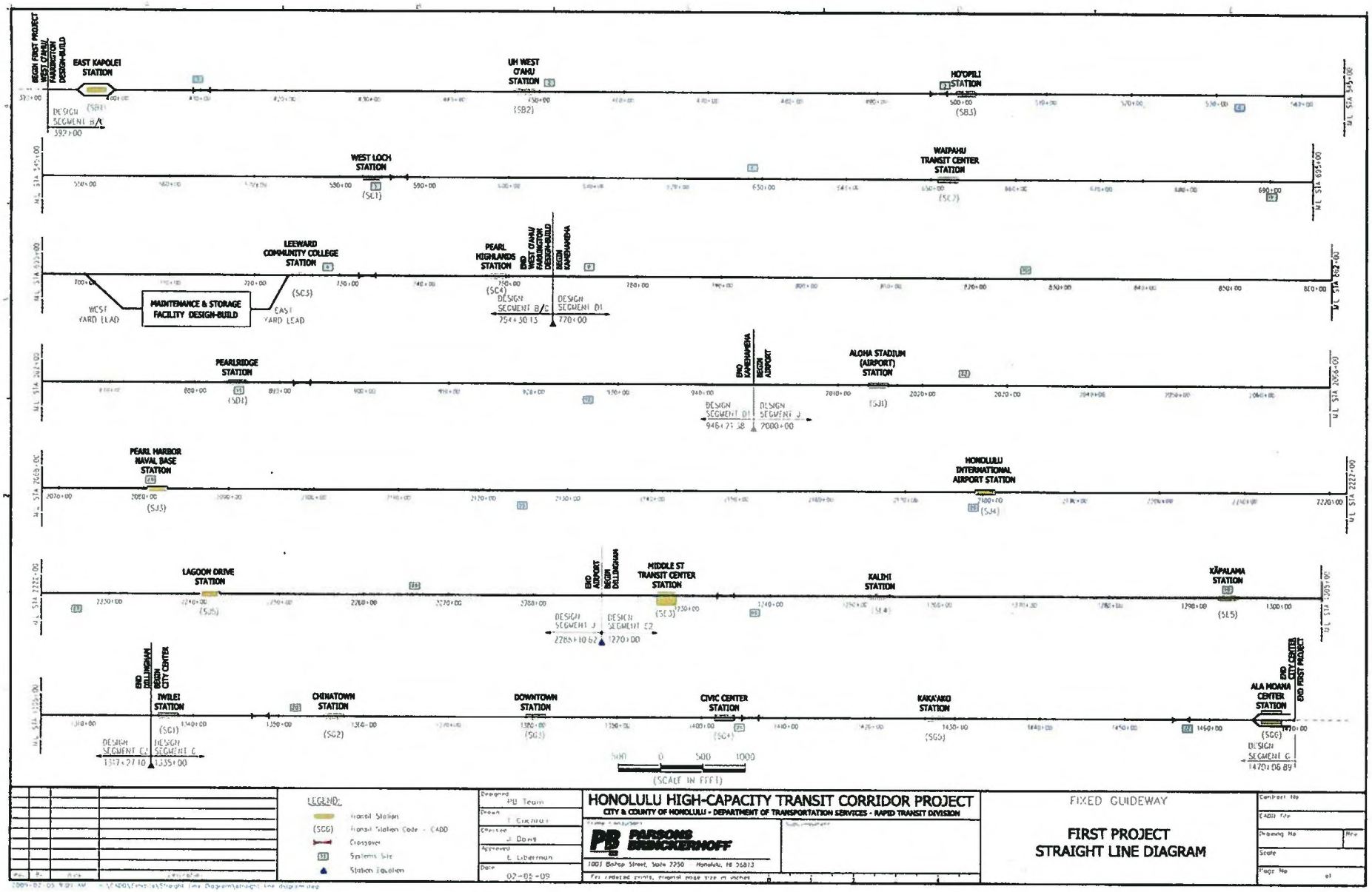

LEGEND:
- Transit Station
- (SGG) Transit Station Code - CADD
- Crossover
- Systems Site
- Station Facilities

Designed	PB Team
Drawn	T. Cochran
Checked	J. Dorn
Approved	E. Lieberman
Date	02-05-09

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT

CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

PB PARSONS BRINCKERHOFF

1001 Bishop Street, Suite 2250 Honolulu, HI 96813

For reduced prints, original paper size is inches

FIXED GUIDEWAY

FIRST PROJECT STRAIGHT LINE DIAGRAM

Contract No
CADD File
Drawing No
Rev
Scale
Page No of

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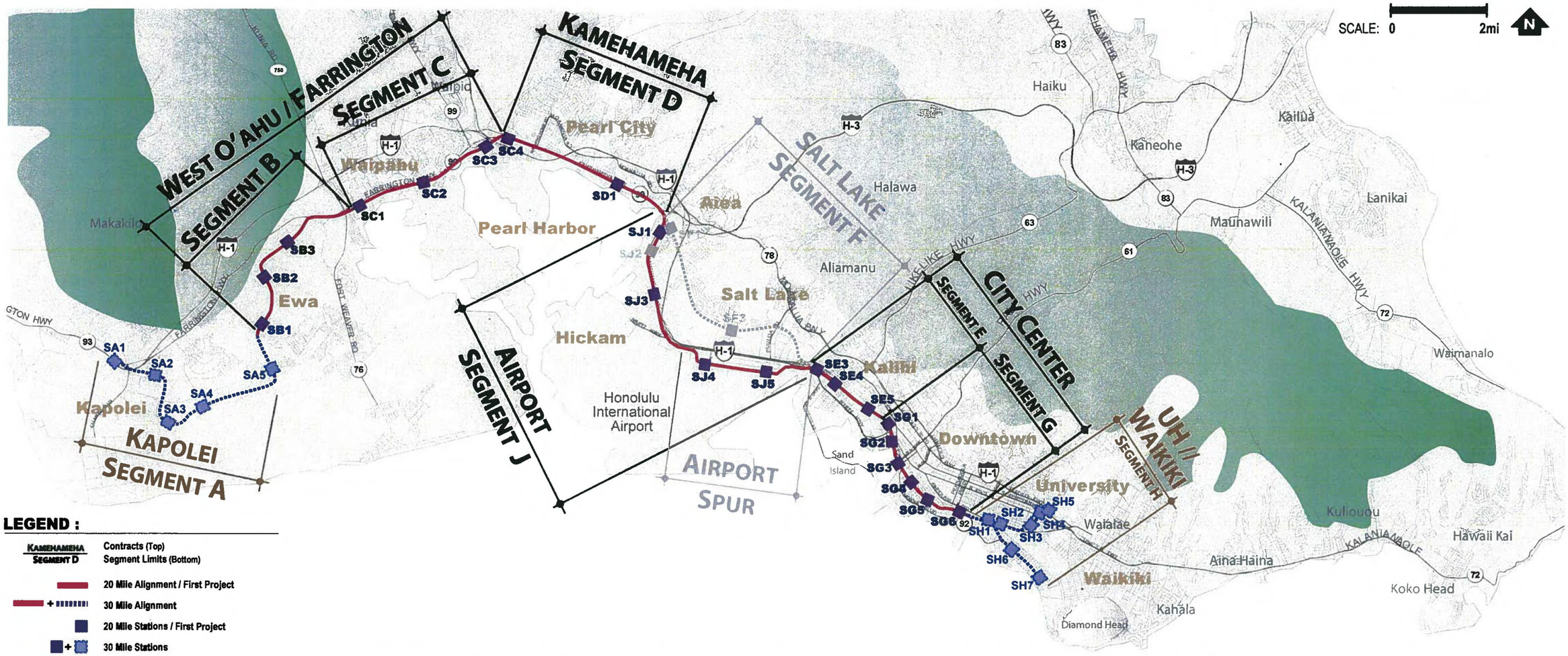
HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT

FEBRUARY 6, 2009



LEGEND :

KAMEHAMEHA / SEGMENT D	Contracts (Top) / Segment Limits (Bottom)
	20 Mile Alignment / First Project
+	30 Mile Alignment
	20 Mile Stations / First Project
+	30 Mile Stations
SA1, SB1	Station Key Names
SF1, SF3, SJ2	DELETED

STATION TYPES

CP SP C

CP- Center Platform
SP- Side Platform
C - With Concourse
SPAGSP - Side Platform At Grade with Sunken Plaza

ARCHITECTURE

PBH	PB Honolulu
PBS	PB Seattle
UA	Ushijima Architects
G70	Group 70
ND	Next Design
UW	Urban Works
DM5	Durrant Media 5
KYA	KYA Design Group
AMP	AM Partners
KGP	KGP Design Studio
AAI	Anbe, Aruba & Ishizu
YFH	Yamasato, Fujiwara & Higa
PA	Pacific Architects

LANDSCAPE

BC	Belt Collins
PBR	PBR Hawaii
HD	Hawaii Design

CIVIL/STRUCTURE

PB	PB Honolulu
KAI	KAI Hawaii
RMTC	RM Towill Corp
SSFM	SSFM International
ATA	ATA
M&E	M&E Pacific

PRELIMINARY ENGINEERING DESIGN TEAMS

Station Key Names	STATIONS	AR	LA	CIV	STR	Station Types
SA1	West Kapolei Station	UA	--	RMTC	PB	CP C
SA2	Kapolei Transit Center Station	UA	--	RMTC	PB	SP C
SA3	Kalaeloa Station	UA	--	RMTC	PB	SP C
SA4	Fort Barrette Road Station	UA	--	RMTC	PB	SP C
SA5	Kapolei Parkway Station	G70	--	RMTC	PB	SP C
SB1	East Kapolei Station	G70	BC	PB	PB	CP C
SB2	UH West O'ahu Station	G70	BC	PB	KAI	SP C
SB3	Ho'opili Station	ND	BC	PB	KAI	SP
SC1	West Loch Station	ND	BC	PB	KAI	SP C
SC2	Waipahu Transit Center Station	ND	BC	PB	KAI	SP C
SC3	Leeward Community College Station	PBS	BC	PB	PB	SPAGSP
SC4	Pearl Highlands Station	PBS	BC	PB	KAI	SP C

Station Key Names	STATIONS	AR	LA	CIV	STR	Station Types
SCY	Maintenance Yard and Storage Facility	UW/PBH	HD	PB	PB	--
SD1	Pearlridge Station	DM5	PBR	M&E	PB	SP C
SJ1	Aloha Stadium Station (Airport)	DM5	PBR	RMTC	PB	CP C
SJ2	Arizona Memorial Station	PBH	-	M&E	PB	SP C
SJ3	Pearl Harbor Naval Base Station	DM5	PBR	RMTC	PB	SP C
SJ4	Honolulu International Airport Station	KYA	PBR	RMTC	PB	SP C
SJ5	Lagoon Drive Station	KYA	PBR	RMTC	PB	SP
SE3	Middle Street Transit Center Station	AMP	PBR	SSFM	PB	SP C
SE4	Kalihi Station	AMP	PBR	SSFM	PB	SP C
SE5	Kapalama Station	AMP	PBR	SSFM	PB	SP
SF1	Aloha Stadium Station (Salt Lake)	DM5	PBR	RMTC	PB	SP C
SF3	Ala Lilikoi Station (Salt Lake)	PBH	PBR	RMTC	PB	SP C

Station Key Names	STATIONS	AR	LA	CIV	STR	Station Types
SG1	Iwilei Station	KGP	HD	PB	PB	SP C
SG2	Chinatown Station	KGP	HD	PB	PB	SP C
SG3	Downtown Station	UW	HD	PB	PB	SP C
SG4	Civic Center Station	UW	HD	PB	PB	SP
SG5	Kaka'ako Station	UW	HD	PB	PB	SP
SG6	Ala Moana Center Station	AAI	HD	PB	PB	CP SP
SH1	Convention Center Station	YFH	--	ATA	PB	SP
SH2	McCully Station	PA	--	ATA	PB	SP C
SH3	Date Street Station	PA	--	ATA	PB	SP
SH4	Mō'ili'ili Station	PA	--	ATA	PB	SP C
SH5	UH Manoa Station	G70	--	ATA	PB	CP C
SH6	Kālaimoku Street Station	YFH	--	ATA	PB	SP
SH7	Lili'uokalani Avenue Station	YFH	--	ATA	PB	SP

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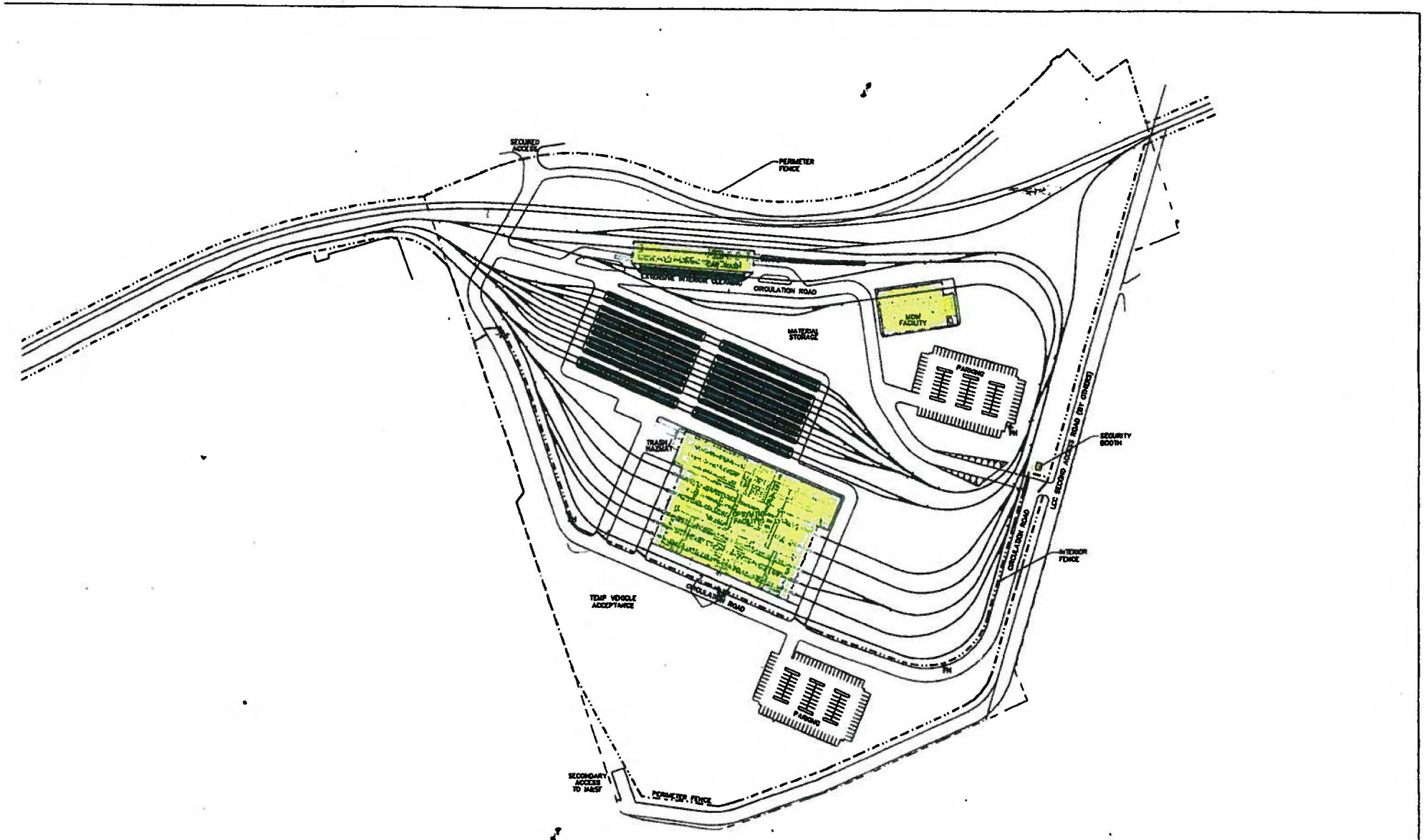
AR00140322



PB HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT

Service Contracts:

The Table below reflects the current thinking on procurement packaging of Service (SV) contracts with 14 Service contracts currently reflected in the schedule.

	Contract #	Activity #
Service Contracts (14)		
Program Management Support	SV-900	S100 S120
General Construction Management	SV-910	V100 V120
Kamehameha Utility & Guideway Design	SV-330	K108 K110 K120
Airport Utility & Guideway Design	SV-430	G120 G130 G140
City Center Utility & Guideway Design	SV-530	C100 C110 C120
West Oahu Stations (3) Design	SV-140	X100 X110
Farrington Stations (3) Design	SV-240	R120 R130
H2 Ramps at Pearl Highlands Park Facility	SV-230	R500 R510
Pearl Highlands Station & Multi Level Park Facility	SV-245	R320 R330
Kamehameha Stations (2) Design	SV-340	J100 J110
Airport Stations (4) Design	SV-440	H100 H110
Dillingham Station (3) Design	SV-540	
City Center Stations (3) Design	SV-542	U100 U110
Kaka'ako Stations (3) Design	SV-545	Y100 Y110

Design-Build Contracts:

The Table below reflects the current thinking on procurement packaging of Design-Build (DB) contracts with 3 Design-Build contracts currently reflected in the schedule.

Design-Build Construction Contracts (3)		
West Oahu/Farrington Guideway & Utilities	DB-1200	W100 W110 W120
Maintenance & Storage Facility	DB-200	M100 M110 M120

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Design-Bid-Build Construction Contracts:

The Table below reflects the current thinking on procurement packaging of Design-Bid-Build (DBB) contracts with 15 Design-Build contracts currently reflected in the schedule.

Design-Bid-Build Construction Contracts (15)		
Kamehameha Utility Relocations	DBB-350	K200 K210
Salt Lake Utility Relocations	DBB-450	G200 G230
City Center Utility Relocations	DBB-550	C200 C210
Kamehameha Guideway Construction	DBB-360	K300 K310
Salt Lake Guideway Construction	DBB-460	G300 G310
City Center Guideway Construction	DBB-560	C300 C310
West Oahu Stations (3) Construction	DBB-170	X200 X210
Farrington Stations (3) Construction	DBB-270	R200 R210 R250 R260
Pearl Highlands Station & Multi Level Park Facility	DBB-275	R400 R410 R420
H2 Ramps at Pearl Highlands Park Facility	DBB-260	R600 R610
Kamehameha Stations (2) Construction	DBB-370	J200 J210 J220 J230
Airport Stations (3) Construction	DBB-470	H100 H110
Dillingham Stations (3) Construction	DBB-570	
City Center Stations (3) Construction	DBB-572	U200 U210 U220 U330
Kaka'ako Stations (3) Construction	DBB-575	Y200 Y210 Y220 Y230

Manufacture-Install Contracts:

The Table below reflects the current thinking on procurement packaging of Manufacture-Install (MI) contracts with 2 Manufacture-Install contracts currently reflected in the schedule.

Manufacture & Install Contracts (2)		
Vehicles/Systems procure, install, test,commission	MI-920	P320 P380 P420 P460 P470 T250
Elevators/Escalators procure,install,test,commission	MI-930	L100 L110

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Owner Furnish Contracts:

The Table below reflects the current thinking on procurement packaging of Owner Furnish (OF) contracts with 2 Owner Furnish contracts currently reflected in the schedule.

Owner Furnish Contracts (2)		
Owner Furnish ticket Vending Machines	OF-940	TBD
Owner Furnish Plants & Shrubs	OF-950	TBD

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Contract # Contract Title	**SV-140** **West Oahu Stations (3) Design (East Kapolei, UH West Oahu & Ho'opili)** **Sta 370+00 to Sta 570+00**		**Schedule Activity #** **X100, X110**	
Contract info	Type QBS Selection - Service Contract		Budgeted Cost $1,380,659	
	Proposal Date 6/18/2010	Award Date 10/15/2010	NTP Date 10/16/2010	Completion Date 10/30/2011
Current Status	Advanced Conceptual Engineering by PB Lead engineer: Martin Hall, Architect Kanuji Parmar			
Scope	**1. Design East Kapolei Station, incl 12 acre Park and Ride** **2. Design UH West Oahu Station, incl two 5 acre Park and Ride** **3. Design Ho'opili Station (no concourse)** Note: All station designs include: 1. All required Design Permits 2. Station construction and finishes 3. Facilities Electrical & Mechanical 4. Site work around stations including demo if needed 5. Site landscaping 6. Coordination with the Transit Arts Program 7. Park-Ride lot construction (East Kopolei - 12 acres & UH West Oahu - 2-Five acre lots) 8. Platform to be placed on cap (caps by guideway contractor) 9. Construct canopy (foundations by guideway contractor) 10. Vertical circulation (escalators and elevators to be procured by City) 11. Construct concourse incl columns and foundations except in shadow of guideway 12 Lighting, HVAC electrical service to ancillary space and station equipment 12. Fire suppression system(s) and equipment as reqd by City Fire Dept. 14. Installation security systems & alarms			
Interface with other Contracts	MI-920 Systems and vehicles MI-930 Elevators and escalators			
Force Account				
Right of Way and Construction Easements				
Design Responsibility				
CM Responsibility				

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Contract # Contract Title	**SV-230** **Ramps at H2 and Utility Relocation Design**		**Schedule Activity #** **R500, R510**	
Contract Info	Type QBS Selection - Service Contract		Budgeted Cost $3,591,818	
	Proposal Date 3/20/2010	Award Date 7/17/2010	NTP Date 7/18/2010	Completion Date 7/17/2011
Current Status	Advanced Conceptual Engineering by PB Lead engineer: Barry Muranaka (M&E)			
Scope	**Design Ramps at H2** 1. All required Design Permits 2. Design foundations, columns and superstucture for two Ramps at H1 / Pearl Highlands 3. Design Drainage for ramps 4. Design Lighting for ramps 5. Design Highway repairs / modifications, signage, lane markings, etc 6. Design landscaping, fencing, civil site improvements, irrigation 7. Construct laydown yard(s) and casting yard, temp easements as reqd. 8. Design all necessary utility relocations and include in DBB Contract documents .			
Interface with other Contracts	SV-330 Design Utility & Guideway Kamehameha Hgwy SV-245 Design Pearl Highlands station and Multi Level parking Facility			
Force Account				
Right of Way and Construction Easements				
Design Responsibility				
CM Responsibility				

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Contract # Contract Title	**SV-240** **Farrington Stations (3) Design (West Loch, Waipahu,Leeward Com College,)** **Sta 570+00 to Sta 770+00**		**Schedule Activity #** **R120, R130**	
Contract Info	Type QBS Selection - Service Contract		Budgeted Cost $1,374,483	
	Proposal Date 9/13/2009	Award Date 1/10/2010	NTP Date 1/11/2010	Completion Date 1/10/2011
Current Status	Advanced Conceptual Engineering by PB Lead engineer: Martin Hall, Architect: Kanuji Parmar			
Scope	**1. Design West Loch Station** **2. Design Waipahu Station, incl Transit Center Station** **3. Design Leeward Community College Station (no concourse)** Note: All station designs include: 1. All required Design Permits 2. Station construction and finishes 3. Facilities Electrical & Mechanical 4. Site work around stations including demo if needed 5. Site landscaping 6. Coordination with the Transit Arts Program 7. Transit center 8. Platform to be placed on cap (caps by guideway contractor) 9. Construct canopy (foundations by guideway contractor) 10. Vertical circulation (escalators and elevators to be procured by City) 11. Construct concourse incl columns and foundations except in shadow of guideway 12 Lighting, HVAC electrical service to ancillary space and station equipment 13. Fire suppression system(s) and equipment as reqd by City Fire Dept. 14. Installation security systems & alarms			
Interface with other Contracts	DB-1200 West Oahu / Farrington Guideway and Utilities MI-920 Vehicle and Systems MI-930 Elevators and escalators			
Force Account				
Right of Way and Construction Easements				
Design Responsibility				
CM Responsibility				

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Contract # Contract Title	**SV-245** **Design Pearl Highlands Station and Mutlti Level Parking Structure Sta 580+00 to Sta 770+00**		**Schedule Activity #** **R320, R330**	
Contract info	Type QBS Selection - Service Contract		Budgeted Cost $925,578	
	Bid Date 9/13/2009	Award Date 1/10/2010	NTP Date 1/11/2010	Completion Date 5/25/2011
Current Status	Advanced Conceptual Engineering by PB Segment Lead: Barry Muranaka, Architect Kanuji Parmar			
Scope	**1. Design Pearl Highlands Station** **2. Design Multi Level parking Facility adjacent to Pearl Highlands** Note: All station designs include: 1. All required Design Permits 2. Station construction and finishes 3. Facilities Electrical & Mechanical 4. Site work around stations including demo if needed 5. Site landscaping 6. Coordination with the Transit Arts Program 7. Park + ride facilities 8. Platform to be placed on cap (caps by guideway contractor) 9. Construct canopy (foundations by guideway contractor) 10. Vertical circulation (escalators and elevators to be procured by City) 11. Construct concourse incl columns and foundations except in shadow of guideway 12 Lighting, HVAC electrical service to ancillary space and station equipment 13. Fire suppression system(s) and equipment as reqd by City Fire Dept. 14. Installation security systems & alarms			
Interface with other Contracts	SV-330 Kamehameha Guideway and Utility Design MI-920 Vehicle and Systems MI-930 Elevators and escalators			
Force Account				
Right of Way and Construction Easements				
Design Responsibility CM Responsibility				

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Contract # Contract Title	**SV-330** **Kamehameha Utility and Guideway Design** **Sta 748+04 to Sta 924+26**		**Schedule Activity #** **K108, K110, K120**	
Contract info	Type QBS Selection - Service Contract		Budgeted Cost $12,199,718	
	Proposal Date 9/13/2009	Award Date 1/10/2010	NTP Date 1/11/2010	Completion Date A)5/11/2011 B) 4/15/2011
Current Status	Advanced Conceptual Engineering by PB Lead engineer: Hank Wei (Utilities) & Barry Muranaka (Guideway) City and County preparing RFP			
Scope	1. All required Design Permits **A) Kamehameha Utility Relocation Design** 1. Design OH and underground utility relocations (incl HECO, Gas, AT&T, Drainage, Hawaiian Telecom, TV cable, Water, Sewer, Petroleum) **B) Kamehameha Guideway Design** 1. Design guideway foundations, substucture and superstructure incl plinths and rail 2 Design conduits for Systems contracts 3. Design anchorages and base plates for Stations contracts (2 stations not included) 4. Design 3 (9, 10 &11) TPSS - (foundations, underground conduits and risers only) 5. Design conduits in cable tray inside guideway 6. Design 2 X-Overs , incl switch machines 7. Design modifications to affected intersections including signalization 8. Design landscaping, fencing, civil site improvements and irrigation 9. Design station concourse foundation within shadow of guideway 10. Design roadway repairs - curb gutters, sidewalk, lane markings, median barriers, etc 11 Design guideway electrical services for lighting, switch machine & other wayside equipment. Current engineering assessment is this stretch will require 14 straddle bents + 7 C-bents.			
Interface with other Contracts	DB-1200 West Oahu / Farrington Guideway and Utilities SV-430 Salt Lake Utility and Guideway Design SV-340 Kamehameha Stations (2) Design MI-920			
Force Account				
Right of Way and Construction Easements				
Design Responsibility				
CM Responsibility				

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Contract # Contract Title	**SV-340** **Kamehameha Stations (2) Design** **(Pearl Ridge & Aloha Stadium)** **Sta 770+00 to Sta 980+00**		**Schedule Activity #** **J100, J110**	
Contract info	Type QBS Selection - Service Contract		Budgeted Cost $2,911,979	
	Bid Date 11/10/2011	Award Date 3/8/2012	NTP Date 3/9/2012	Completion Date 6/17/2013
Current Status	Advanced Conceptual Engineering by PB Lead engineer: Barry Muranaka, Architect Kanuji Parmar			
Scope	**1. Design Pearl Ridge Station** **2. Design Aloha Stadium Station** Note: All station designs include: 1. All required Design Permits 2. Station construction and finishes 3. Facilities Electrical & Mechanical 4. Site work around stations including demo if needed 5. Site landscaping 6. Coordination with the Transit Arts Program 7. Park + ride facilities 8. Platform to be placed on cap (caps by guideway contractor) 9. Construct canopy (foundations by guideway contractor) 10. Vertical circulation (escalators and elevators to be procured by City) 11. Construct concourse incl columns and foundations except in shadow of guideway 12 Lighting, HVAC electrical service to ancillary space and station equipment 13. Fire suppression system(s) and equipment as reqd by City Fire Dept. 14. Installation security systems & alarms Note Transit Center at Pearl Ridge by others.			
Interface with other Contracts	SV-330 Kamehameha Guideway and Utility Design MI-920 Vehicle and Systems MI-930 Elevators and escalators			
Force Account				
Right of Way and Construction Easements				
Design Responsibility				
CM Responsibility				

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Contract #	**SV-430**		**Schedule Activity #**	
Contract Title	**Airport Utility and Guideway Design Sta 924+26 to Sta 1169+44**		**G120, G130, G140**	
Contract info	Type QBS Selection - Service Contract		Budgeted Cost $22,491,755	
	Proposal Date 9/13/2009	Award Date 1/10/2010	NTP Date 1/19/2010	Completion Date 11/9/2011
Current Status	Advanced Conceptual Engineering by PB Lead engineer: Hank Wei (Utilities) & Gary Takahashi (Guideway) City and County preparing RFP			
Scope	**A) Airport Utility Relocation Design** 1. Design OH and underground utility relocations (incl HECO, Gas, AT&T, Drainage, Hawaiian Telecom, TV cable, Water, Sewer, Petroleum) **B) Airport Guideway Design** 1. Design guideway foundations,substucture and superstructure incl plinths and rail 2 Design conduits for Systems contracts 3. Design anchorages and base plates for Stations contracts (4 stations not included) 4. Design 6 (12 thru 17) TPSS - (foundations, underground conduits and risers only) 5. Design conduits in cable tray inside guideway 6. Design 3 X-Overs , incl switch machines 7. Design modifications to affected intersections including signalization 8. Design landscaping, fencing, civil site improvements and irrigation 9. Design station concourse foundation within shadow of guideway 10. Design roadway repairs - curb gutters,sidewalk, lane markings,median barriers, etc 11 Design guideway electrical services for lighting, switch machine & other wayside equipment. Current engineering assessment is this stretch will require 15 straddle bents + 28 C-bents.			
Interface with other Contracts	DBB-450 Airport Utility Relocation DBB-460 Airport Guideway Construction SV-330 Kamehameha Guideway & Utility Design SV-530 City Center Guideway & Utility Design SV-440 Airport Stations (4) Design			
Force Account				
Right of Way and Construction Easements				
Design Responsibility CM Responsibility				

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Contract # Contract Title	**SV-440** **Airport Stations (3) Design (Pearl Harbor, Airport, and Lagoon Street)** **Sta 980+00 to Sta 1220+00**		**Schedule Activity #** **H100, H110**	
Contract info	Type QBS Selection - Service Contract		Budgeted Cost $2,038,684	
	Bid Date 3/9/2012	Award Date 7/6/2012	NTP Date 1/7/2012	Completion Date 10/15/2013
Current Status	Advanced Conceptual Engineering by PB Lead engineer: Gary Takahashi, Architect Kanuji Parmar			
Scope	**1. Design Pearl Harbor Station** **2. Design Airport Station** **3. Design Lagoon Street Station (no concourse)** Note: All station designs include: 1. All required Design Permits 2. Station construction and finishes 3. Facilities Electrical & Mechanical 4. Site work around stations including demo if needed 5. Site landscaping 6. Coordination with the Transit Arts Program 7. Park + ride facilities 8. Platform to be placed on cap (caps by guideway contractor) 9. Construct canopy (foundations by guideway contractor) 10. Vertical circulation (escalators and elevators to be procured by City) 11. Construct concourse incl columns and foundations except in shadow of guideway 12 Lighting, HVAC electrical service to ancillary space and station equipment 12. Fire suppression system(s) and equipment as reqd by City Fire Dept. 14. Installation security systems & alarms			
Interface with other Contracts	SV-430 Airport Guideway and Utility Design MI-920 Vehicle and Systems MI-930 Elevators and escalators			
Force Account				
Right of Way and Construction Easements				
Design Responsibility				
CM Responsibility				

HHCTCP Contract Packaging Plan

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Contract # / Contract Title	**SV-530** **City Center Utility and Guideway Design** **Sta 1169+44 to Sta 1470+00**		**Schedule Activity #** **I-810 & I- 815**	
Contract info	Type QBS Selection - Service Contract		Budgeted Cost $24,098,845	
	Proposal Date 3/20/2010	Award Date 7/17/2010	NTP Date 7/18/2010	Completion Date A) 4/13/2011 B)7/6/2012
Current Status	City and County preparing RFP			
Scope	**A) City Center Utility Relocation Design** 1. Design OH and underground utility relocations (incl HECO, Gas, AT&T, Drainage, Hawaiian Telecom, TV cable, Water, Sewer, Petroleum) **B) City Center Guideway Design** 1. Design guideway foundations, substructure and superstructure incl plinths and rail 2 Design conduits for Systems contracts 3. Design anchorages and base plates for Stations contracts (2 stations not included) 4. Design 5 (18 thru 22) TPSS - (foundations, underground conduits and risers only) 5. Design conduits in cable tray inside guideway 6. Design 4 X-Overs , incl switch machines 7. Design modifications to affected intersections including signalization 8. Design landscaping, fencing, civil site improvements and irrigation 9. Design station concourse foundation within shadow of guideway 10. Design roadway repairs - curb gutters,sidewalk, lane markings,median barriers, etc 11. Design guideway electrical services for lighting, switch machine & other wayside equipment. Current engineering assessment is this stretch will require 8 straddle bents + 5 C-bents on Dillingham and 35 straddle bents + 11 C-bents on stretch from Downtown to Ala Moana.			
Interface with other Contracts	DBB-550 City Center Utility Relocation DBB-560 City Center Guideway Construction SV-430 Airport Guideway & Utility Design SV-440 AirportStations (3) Design SV-540 City Center Stations (3) Design SV-542 Dillingham Stations (3) Design SV-545 Kaka'ako Stations (3) Design MI-920 Vehicles and Systems			
Force Account				
Right of Way and Construction Easements				
Design Responsibility				
CM Responsibility				

HHCTCP Contract Packagir

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Contract #	**SV-540**		**Schedule Activity #**	
Contract Title	**Dillingham Stations (3) Design (Middle St, Kalihi, Kapalama) Sta 980+00 to Sta 1220+00**		**H100, H110**	
Contract info	Type QBS Selection - Service Contract		Budgeted Cost $1,363,683	
	Bid Date 9/5/2012	Award Date 1/2/2013	NTP Date 1/3/2013	Completion Date 4/13/2014
Current Status	Advanced Conceptual Engineering by PB Lead engineer: Gary Takahashi, Architect Kanuji Parmar			
Scope	**I. Design Middle Street Station** **3. Design Kalihi Station (no concourse)** **4. Design Kapalama Station (no concours** Note: All station designs include: 1. All required Design Permits 2. Station construction and finishes 3. Facilities Electrical & Mechanical 4. Site work around stations including demo if needed 5. Site landscaping 6. Coordination with the Transit Arts Prograi 7. Park + ride facilities 8. Platform to be placed on cap (caps by guideway contrac 9. Construct canopy (foundations by guideway contractor) 10. Vertical circulation (escalators and elevators to be proc 11. Construct concourse incl columns and foundations except in shadow of guideway 12 Lighting, HVAC electrical service to ancillary space and 12. Fire suppression system(s) and equipment as reqd by (14. Installation security systems & alarms			
Interface with other Contracts	SV-530 Civic Center Guideway and Utility Design MI-920 Vehicle and Systems MI-930 Elevators and escalators			
Force Account				
Right of Way and Construction Easements				
Design Responsibility				

CM Responsibility	

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Contract #	**SV-542**		**Schedule Activity #**	
Contract Title	**City Center Stations (3) Design (Iwilei, Chinatown & Downtown) Sta 1220+00 to Sta 1390+00**		**U100, U110**	
Contract info	Type QBS Selection - Service Contract		Budgeted Cost $1,363,684	
	Bid Date 12/14/2012	Award Date 4/12/2013	NTP Date 4/13/2013	Completion Date 7/22/2014
Current Status	Advanced Conceptual Engineering by PB Lead engineer: Clyde Shimuzu & Lee Takushi, Architect Kanuji Parmar			
Scope	**1. Design Iwilei Station (no concourse)** **2. Design Chinatown Station** **3. Design Downtown Station** Note: All station designs include: 1. All required Design Permits 2. Station construction and finishes 3. Facilities Electrical & Mechanical 4. Site work around stations including demo if needed 5. Site landscaping 6. Coordination with the Transit Arts Program 7. Park + ride facilities 8. Platform to be placed on cap (caps by guideway contractor) 9. Construct canopy (foundations by guideway contractor) 10. Vertical circulation (escalators and elevators to be procured by City) 11. Construct concourse incl columns and foundations except in shadow of guideway 12 Lighting, HVAC electrical service to ancillary space and station equipment 13. Fire suppression system(s) and equipment as reqd by City Fire Dept. 14. Installation security systems & alarms			
Interface with other Contracts	SV-530 City Center Guideway and Utility Design MI-920 Vehicle and Systems MI-930 Elevators and escalators			
Force Account				
Right of Way and Construction Easements				
Design Responsibility				
CM Responsibility				

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Contract # Contract Title	**SV-545** **Kaka'ako Stations (3) Design (Civic Center Kaka'ako, Ala Moana)** **Sta 1390+00 to Sta 1470+00**		**Schedule Activity #** **Y100, Y110**	
Contract Info	Type QBS Selection - Service Contract		Budgeted Cost $1,363,684	
	Bid Date 9/5/2012	Award Date 1/2/2013	NTP Date 1/3/2013	Completion Date 4/13/2014
Current Status	Advanced Conceptual Engineering by PB Lead engineer: Clyde Shimuzu, Architect Kanuji Parmar			
Scope	**1. Design Civic Center Station (no concourse)** **2. Design Kaka'ako Station (no concourse)** **3. Design Ala Moana Station** Note: All station designs include: 1. All required Design Permits 2. Station construction and finishes 3. Facilities Electrical & Mechanical 4. Site work around stations including demo if needed 5. Site landscaping 6. Coordination with the Transit Arts Program 7. Park + ride facilities 8. Platform to be placed on cap (caps by guideway contractor) 9. Construct canopy (foundations by guideway contractor) 10. Vertical circulation (escalators and elevators to be procured by City) 11. Construct concourse incl columns and foundations except in shadow of guideway 12 Lighting, HVAC electrical service to ancillary space and station equipment 12. Fire suppression system(s) and equipment as reqd by City Fire Dept. 14. Installation security systems & alarms			
Interface with other Contracts	SV-530 City Center Guideway and Utility Design MI-920 Vehicle and Systems MI-930 Elevators and escalators			
Force Account				
Right of Way and Construction Easements				
Design Responsibility				
CM Responsibility				

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Contract # Contract Title	**SV-900** **Program Management Support** **Sta 370+00 to Sta 1470+00**		**Schedule Activity #** **S100, S120**	
Contract info	Type QBS Selection - Service Contract		Budgeted Cost $138,579,394	
	RFP date 9/12/2009	Award Date 1/9/2010	NTP Date 1/10/2010	Completion Date 3/3/2019
Current Status	City and County preparing RFP			
Scope	**Perform Program Management on behalf of RTD** 1. The Program Management Consultant will assist RTD with specialized support throughout the design and construction phase. 2. The Program Management Consultant will also assist RTD with oversight of design, construction, manufacturing, precasting, installation, testing and commissioning. 3. The Program Management Consultant will assist RTD with hi-level management support including political and financial issues.			
Interface with other Contracts	All DB, DBB, SV, MI and OF contracts			
Force Account				
Right of Way and Construction Easements				
Design Responsibility				
CM Responsibility				

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Contract # Contract Title	**SV-910** **General Construction Management Support** **Sta 370+00 to Sta 1470+00**		**Schedule Activity #** **V100, V110**	
Contract info	Type QBS Selection - Service Contract		Budgeted Cost $251,962,535	
	Proposal Date 9/12/2009	Award Date 1/9/2010	NTP Date 1/10/2010	Completion Date 3/3/2019
Current Status	City and County preparing RFP			
Scope	**Perform General Construction Management on behalf of RTD** 1. The General Construction Manager will assist RTD with procurement of service and construction contracts. 2. The General Construction Manager will assist RTD with oversight of design, construction, manufacturing, precasting, installation, testing and commissioning. 3. The General Construction Manager will assist RTD to manage the construction contracts including schedule reviews, quality, safety monitoring, environmental compliance, contractor monthly payments, claims and changes.			
Interface with other Contracts	All DB, DBB, SV, MI and OF contracts			
Force Account				
Right of Way and Construction Easements				
Design Responsibility				
CM Responsibility				

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Contract # Contract Title	**DB-1200** **West Oahu / Farrington Guideway & Utilities** **Design & Construct** **Sta 392+00 to Sta 748+04**		**Schedule Activity #** **P120, P180, P380, P230, P340,** **W100, W110, W120**	
Contract info	Design Build Competitive - Best Value - RFP		Budgeted Cost $584,604,858	
	RFP Part 1 Date 2/4/2009 A	RFP Part 2 Date 4/3/2009		
	Proposal Due Date 7/31/2009	Award Date 9/25/2009	NTP Date 11/13/2009	Completion Date 7/7/2013
Current Status	Advanced Conceptual Engineering / DEIS / EIS (incl Utility work by PB, RM Towill,MK, ATA, Lyon) Segment Lead : Martin Hall D-B Drgs & Contract packages being prepared			
Scope	**Design and Construct** 1. OH and underground utility relocations (incl HECO, Gas, AT&T, Drainage, Hawaiian Telecom, Cable, Water, Sewer, Petroleum) 2. Precast & Construct guideway including plinths and rail and 1 long span structure 3 Install conduits for Systems contracts 4. Install anchorages and base plates for Stations contracts (7 stations not included) 5. Install 8 (1 thru 8) TPSS - (foundations, underground conduits and risers only) 6. Install conduits in cable tray inside guideway 7. Install 5 X-Overs , incl switch machines 8. Modifications to affected intersections including signalization 9. Landscaping, fencing, civil site improvements and irrigation 10. Construct station concourse foundation within shadow of guideway 11. Roadway repairs - curb gutters,sidewalk, lane markings,median barriers, etc 12 Construct laydown yard(s) and casting yard, temp easements as reqd. 13. Guideway electrical services for lighting switch machine and other wayside equipment. 14. All permits required for construction 15. Final design and as-builts for all new and relocated facilities Current engineering assessment is this stretch will require 4 straddle bents + 2 C-bents.			
Interface with other Contracts	SV-140 West Oahu Stations (3) Design SV-240 Farrington Stations (4) Design DBB-170 West Oahu Stations (3) Construction DBB-270 Farrington Stations (4) Construction MI-920 Vehicle and Systems MI-930 Escalators and Elevators OF-940 Ticket vending machines			
Force Account				
Right of Way and Construction Easements	Laydown yard(s) and casting yard, temp easements as reqd. Private property agreements / easements as required City is responsible for Master Agreements			
Design Responsibility	D-B Contractor Design. TBD.			
CM Responsibility				

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Contract #	**DB-200**		**Schedule Activity #**	
Contract Title	**Maintenance and Storage Facility Design and Construct Sta 690+00 to Sta 724+00 approx**		**P620, P640, P685, P530, P640 M100, M110, M120**	
Contract info	Design Build Competitive - Best Value - RFP		Budgeted Cost $130,630,964	
	RFP Part 1 Date 5/29/2009	RFP Part 2 Date 9/21/2009		
	Proposal Due Date 1/18/2010	Award Date 3/15/2010	NTP Date 5/3/2010	Completion Date 6/10/2014
Current Status	Advanced Conceptual Engineering (incl Utility work by PB, Control Pt, Sato, ATA,) Segment Lead : Martin Hall / Kanuji Parmar (incl work by Urban Works &Hawaii Design) D-B Drgs & Contract packages being prepared			
Scope	**Design and Construct** 1. Final design and as builts for all new and relocated facilities. 2. Earthwork to balance cut / fill at Navy Drum Yard 3. Construct earth retaining structure(s) 4. Construct 3-story Operation and Maintenance Bldg 5.. Install operation and maintenance equipment, wheel truing machine, floor jacks, OH cranes, turntable, machine shop, etc. 6. Construct Maintenance of Way Building 6.. Construct and equip Vehicle Car Wash 7. Install service and storage tracks 8. Construct access roads and structures, illumination and two parking lots 10. Fencing, landscaping, irrigation and all utilities All permits. 12. Furnish running and thrid rail for the entire First Project 13. Store excess rail on the yard site for pick-up by other contractors. 14. All permits required for construction 15. Final design and as-builts for all new and relocated facilities			
Interface with other Contracts	DB-1 200 West Oahu/Farrington Guideway and Utilities DBB-350 Kamehameha Utility relocation DBB-360 Kamehameha Guideway Construction DBB-270 Farrington Stations (3) Construction MI-920 Vehicle and Systems OF-940 Ticket vending machines			
Force Account				
Right of Way and Construction Easements	Property Agreement and MOU re use of old Navy Drum Yard. Private property agreements / easements as requitred City is responsible for Master Agreements			
Design Responsibility	D-B Contractor Design. TBD.			
CM Responsibility				

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Contract #	**DBB-170**		**Schedule Activity #**	
Contract Title	**West Oahu Stations (3) Construction (East Kapolei, UH West Oahu, Ho'opili) Sta 392+00 to Sta 500+00**		**X200, X210**	
Contract Info	Design Bid Build - Construct Sealed Competitive Bid		Budgeted Cost $32,829,002	
	Bid Date 2/5/2012	Award Date 6/3/2012	NTP Date 6/13/2012	Completion Date 5/13/2014
Current Status	Advanced Conceptual Engineering Segment Lead : Architect Kanuji Parmar (PB) / Civil Martin Hall (PB)			
Scope	**Construct** 1. Obtain all required construction Permits 2. Station construction and finishes 3. Facilities Electrical & Mechanical 4. Site work around stations including demo if needed 5. Site landscaping 6. Coordiantion with the Transit Arts Program 7. Park-Ride lot construction (East Kopolei - 12 acres & UH West Oahu - 2-Five acre lots) 8. Platform to be placed on cap (caps by guideway contractor) 9. Construct canopy (foundations by guideway contractor) 10. Vertical circulation (escalators and elevators to be procured by City) 11. Construct concourse incl columns and foundations except in shadow of guideway 12 Lighting, HVAC electrical service to ancilliary space and station equipment 12. Fire suppression system(s) and equipment as reqd by City Fire Dept. 14. Installation security systems & alarms 15. Provide as-built drawings in accordance with all City and HDOT requirements			
Interface with other Contracts	DB-1200 West Oahu / Farrington Guideway and Utilities SV-140 West Oahu Station Design MI-920 Vehicles and Systems MI-930 Escalators and Elevators OF-940 Ticket vending machines			
Force Account				
Right of Way and Construction Easements	Laydown yard(s) and casting yard, temp easements as reqd. Private property agreements / easements as required City is responsible for Master Agreements			
Design Responsibility	SV-140 TBD.			
CM Responsibility	SV-910 TBD.			

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Contract #	**DBB-275**		**Schedule Activity #**	
Contract Title	**Pearl Highlands Station and Mutlti Level Parking Structure Sta 580+00 to Sta 770+00**		**R400, R410**	
Contract info	Design Bid Build - Construct Sealed Competitive Bid		Budgeted Cost $69,240,389	
	Bid Date 5/26/2011	Award Date 9/22/2011	NTP Date 9/23/2011	Completion Date 4/14/2014
Current Status	Advanced Conceptual Engineering Segment Lead : Architect Kanuji Parmar (PB) / Civil Martin Hall (PB)			
Scope	**Construct** 1. Obtain all required construction Permits 2. Pearl Highlands Station & Multi Level Parking Structure construction and finishes 3. Facilities Electrical & Mechanical 4. Site work around stations including demo if needed 5. Site landscaping 6. Coordiantion with the Transit Arts Program 7. Park-Ride lot construction 8. Platform to be placed on cap (caps by guideway contractor) 9. Construct canopy (foundations by guideway contractor) 10. Vertical circulation (escalators and elevators to be procured by City) 11. Construct concourse incl columns and foundations except in shadow of guideway 12 Lighting, HVAC electrical service to ancilliary space and station equipment 12. Fire suppression system(s) and equipment as reqd by City Fire Dept. 14. Installation security systems & alarms 15. Provide as-built drawings in accordance with all City and HDOT requirements			
Interface with other Contracts	DB-1200 West Oahu / Farrington Guideway and Utilities SV-245 Pearl Highlands Station & Multi level parking Structure Design MI-920 Vehicles and Systems MI-930 Escalators and Elevators OF-940 Ticket vending machines			
Force Account				
Right of Way and Construction Easements	Laydown yard(s) and casting yard, temp easements as reqd. Private property agreements / easements as required City is responsible for Master Agreements			
Design Responsibility	SV-245 TBD.			
CM Responsibility	SV-910 TBD.			

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Contract #	**DBB-260**		**Schedule Activity #**	
Contract Title	**Service Ramps from H2 - Construct**		**R600, R610**	
	Design Bid Build - Construct Sealed Competitive Bid		Budgeted Cost $88,997,262	
	Bid Date 7/18/2011	Award Date 11/14/2011	NTP Date 11/15/2011	Completion Date 5/2/2014
Current Status	Advanced Conceptual Engineering Segment Lead: Barry Muranaka (M&E)			
Scope	**Construct** 1. Acquire all permits required for the work 2. Construct Ramps (2) from H2 3. Landscaping, fencing, civil site improvements, irrigation 4. Highway repairs / modifications, signage, lane markings, etc 5. Construct laydown yard(s) and casting yard, temp easements as reqd. 6. Contract includes Utilty Relocation as required and identified under SV 230.			
Interface with other Contracts	DB-1 200 West Oahu/Farrington Guideway and Utilities DBB-350 Kamehameha Utility Relocation DBB-360 Kamehameha Guideway Construction DBB-275 Pearl Highlands Station & Multi Level Parking Structure Construction			
Force Account				
Right of Way and Construction Easements	Property Agreement and MOU re use of old Navy Drum Yard. Private property agreements / easements as requitred City is responsible for Master Agreements			
Design Responsibility	SV-230 TBD.			
CM Responsibility				

HHCTCP Contract Packaging Plan

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Contract #	**DBB-270**		**Schedule Activity #**	
Contract Title	**Farrington Stations (3) Construction (West Loch, Waipahu & Leeward Community College) Sta 580+00 to Sta 770+00**		**R200, R210, R250**	
Contract info	Design Bid Build - Construct Sealed Competitive Bid		Budgeted Cost $32,682,155	
	Bid Date 1/11/2011	Award Date 5/10/2011	NTP Date 5/11/2011	Completion Date 9/16/2013
Current Status	Advanced Conceptual Engineering Segment Lead : Architect Kanuji Parmar (PB) / Civil Martin Hall (PB)			
Scope	**Construct** 1. Obtain all required construction Permits 2. Station construction and finishes 3. Facilities Electrical & Mechanical 4. Site work around stations including demo if needed 5. Site landscaping 6. Coordiantion with the Transit Arts Program 7. Park-Ride lot construction 8. Platform to be placed on cap (caps by guideway contractor) 9. Construct canopy (foundations by guideway contractor) 10. Vertical circulation (escalators and elevators to be procured by City) 11. Construct concourse incl columns and foundations except in shadow of guideway 12 Lighting, HVAC electrical service to ancilliary space and station equipment 12. Fire suppression system(s) and equipment as reqd by City Fire Dept. 14. Installation security systems & alarms 15. Provide as-built drawings in accordance with all City and HDOT requirements			
Interface with other Contracts	DB-1200 West Oahu / Farrington Guideway and Utilities SV-240 Farrington Station Design MI-920 Vehicles and Systems MI-930 Escalators and Elevators OF-940 Ticket vending machines			
Force Account				
Right of Way and Construction Easements	Laydown yard(s) and casting yard, temp easements as reqd. Private property agreements / easements as required City is responsible for Master Agreements			
Design Responsibility	SV-240 TBD.			
CM Responsibility	SV-910 TBD.			

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Contract # Contract Title	**DBB-350** **Kamehameha Utility Relocation** **Construct** **Sta 748+04 to Sta 924+26**		**Schedule Activity #** **K200, K210**	
Contract info	Design Bid Build - Construct Sealed Competitive Bid		Budgeted Cost $28,241,011	
	Bid Date 5/21/2011	Award Date 9/17/2011	NTP Date 9/18/2011	Completion Date 11/15/2012
Current Status	Advance Conceptual Engineering (incl Utility work by PB, M&E,NakamuraOyama, ATA, Lyon) Segment Lead: Barry Muranaka Utility Conflicts being identified / Utility Relocation package being prepared			
Scope	**Construct** 1. OH and underground utility relocations (incl HECO, Gas, AT&T, Drainage, Hawaiian Telecom, Cable, Water, Sewer, Petroleum) 2. Acquire all permits required for the work 3. Provide as-built drawings in accordance with all City and HDOT requirements			
Interface with other Contracts	SV-330 Kamehameha Utility & Guideway Design SV-340 Kamehameha Station Design DBB-360 Kamehameha Guideway Construction DBB-370 Kamehameha Station Construction MI-920 Vehicle and Systems MI-930 Escalators and Elevators OF-940 Ticket vending machines			
Force Account				
Right of Way and Construction Easements	Laydown yard(s) and casting yard, temp easements as reqd. Private property agreements / easements as required City is responsible for Master Agreements			
Design Responsibility	SV-330, TBD.			
CM Responsibility	SV-910 TBD.			

HHCTCP Contract Packaging Plan

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Contract # Contract Title	**DBB-360** **Kamehameha Guideway Construction** **Sta 748+04 to Sta 924+26**		**Schedule Activity #** **K300, K310**	
Contract Info	Design Bid Build - Construct Sealed Competitive Bid		Budgeted Cost $261,841,182	
	Bid Date 6/15/2011	Award Date 10/12/2011	NTP Date 10/13/2011	Completion Date 12/5/2014
Current Status	Advanced Conceptual Engineering Segment Lead: Barry Muranaka (M&E)			
Scope	**Construct** 1. Precast and Construct guideway including plinths and rail and 1 long span structure 2 Install conduits for Systems contracts 3. Install anchorages and base plates for Stations contracts (2 stations not included) 4. Install 3 (9,10 11) TPSS - (foundations, underground conduits and risers only) 5. Install conduits in cable tray inside guideway 6. Install 2 X-Overs and switch machines 7. Modifications to affected intersections including signalization 8. Landscaping, fencing, civil site improvements, irrigation 9. Construct station concourse foundation within shadow of guideway 10. Roadway repairs - curb gutters,sidewalk, lane markings,median barriers, etc 11. Construct laydown yard(s) and casting yard, temp easements as reqd. 12. Guideway electrical services for lighting switch machine and other wayside equipment. 13. Acquire all permits required for the work 14. Provide as-built drawings in accordance with all City and HDOT requirements			
Interface with other Contracts	DBB-350 Kamehameha Utility Relocation DBB-370 Kamehameha Station Construction SV-330 Kamehameha Utility and Guideway Design SV-340 Kamehameha Station Design MI-920 Vehicles and Systems MI-930 Escalators and Elevators OF-940 Ticket vending machines			
Force Account				
Right of Way and Construction Easements	Laydown yard(s) and casting yard, temp easements as reqd. Private property agreements / easements as required City is responsible for Master Agreements			
Design Responsibility	SV-330 TBD.			
CM Responsibility	SV-910 TBD.			

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Contract # Contract Title	**DBB-370** **Kamehameha Stations (2) Construction (Pearl Ridge & Aloha Stadium)** **Sta 880+00 to Sta 980+00 approx**		**Schedule Activity #** **J200, J210, J220**	
Contract info	Design Bid Build - Construct Sealed Competitive Bid		Budgeted Cost $22,008,197	
	Bid Date 6/18/2013	Award Date 10/15/2013	NTP Date 10/16/2013	Completion Date 4/28/2016
Current Status	Advanced Conceptual Engineering Segment Lead : Architect Kanuji Parmar (PB) / Civil Barry Murinaka (M&E)			
Scope	**Construct** 1. Obtain all required construction Permits 2. Station construction and finishes 3. Facilities Electrical & Mechanical 4. Site work around stations including demo if needed 5. Site landscaping 6. Coordiantion with the Transit Arts Program 7. Park-Ride lot construction 8. Platform to be placed on cap (caps by guideway contractor) 9. Construct canopy (foundations by guideway contractor) 10. Vertical circulation (escalators and elevators to be procured by City) 11. Construct concourse incl columns and foundations except in shadow of guideway 12 Lighting, HVAC electrical service to ancilliary space and station equipment 12. Fire suppression system(s) and equipment as reqd by City Fire Dept. 14. Installation security systems & alarms 15. Provide as-built drawings in accordance with all City and HDOT requirements			
Interface with other Contracts	DBB-350 Kamehameha Utility Relocatiosn DBB-360 Kamehameha Guideway Construction SV-345 Kamehameha Station Design MI-920 Vehicles and Systems MI-930 Escalators and Elevators OF-940 Ticket vending machines			
Force Account				
Right of Way and Construction Easements	Laydown yard(s) and casting yard, temp easements as reqd. Private property agreements / easements as required City is responsible for Master Agreements			
Design Responsibility	SV-340 TBD.			
CM Responsibility	SV-910 TBD.			

Rev # 1
Data Date: 11/03/2008
Prepared by: I Hubbard

HHCTCP Contract Packaging Plan

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Contract #	**DBB-450**		**Schedule Activity #**	
Contract Title	**Airport Utility Relocations - Construct Sta 924+26 to 1169+44**		**G220, G230**	
Contract Info	Design Bid Build - Construct Sealed Competitive Bid		Budgeted Cost $41,135,816	
	Bid Date 5/21/2011	Award Date 9/17/2011	NTP Date 9/18/2011	Completion Date 1/14/2014
Current Status	Advanced Conceptual Engineering (Incl Utility work by PB, RMTowill, Ecs, ATA, Lyon) Segment Lead: Gary Takahashi Utility Conflicts being identified / Utility Relocation package being prepared			
Scope	**Construct** 1. OH and underground utility relocations (incl HECO, Gas, AT&T, Drainage, Hawaiian Telecom, Cable, Water, Sewer, Petroleum) 2. Acquire all permits required for the work 3. Provide as-built drawings in accordance with all City and HDOT requirements			
Interface with other Contracts	SV-430 Airport Utility & Guideway Design SV-440 Airport Station Design DBB-460 Airport Guideway Construction DBB-470 Airport Station Construction MI-920 Vehicle and Systems MI-930 Escalators and Elevators OF-940 Ticket vending machines			
Force Account				
Right of Way and Construction Easements	Laydown yard(s) and casting yard, temp easements as reqd. Private property agreements / easements as required City is responsible for Master Agreements			
Design Responsibility	SV-430 TBD.			
CM Responsibility	SV-910 TBD.			

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Contract #	**DBB-460**		**Schedule Activity #**	
Contract Title	**Airport Guideway Construction Sta 924+26 to 1169+44**		**G300, G310**	
Contract info	Design Bid Build - Construct Sealed Competitive Bid		Budgeted Cost $492,598,128	
	Bid Date 11/10/2011	Award Date 3/8/2012	NTP Date 3/16/2012	Completion Date 6/28/2015
Current Status	Advanced Conceptual Engineering Segment Lead: Gary Takahashi (R M Towill)			
Scope	**Construct** 1. Construct guideway including plinths and rail and 2 long span structures 2 Install conduits for Systems contracts 3. Install anchorages and base plates for Stations contracts (1 station not included) 4. Install 6 (12 thru 17)TPSS - (foundations, underground conduits and risers only) 5. Install conduits in cable tray inside guideway 6. Install 3 X-Overs and switch machines 7. Modifications to affected intersections including signalization 8. Landscaping, fencing, civil site improvements, irrigation 9. Construct station concourse foundation within shadow of guideway 10. Roadway repairs - curb gutters,sidewalk, lane markings,median barriers, etc 11. Construct laydown yard(s) and casting yard, temp easements as reqd. 12. Acquire all permits required for the work 13. Provide as-built drawings in accordance with all City and HDOT requirements 14. Guideway electrical services for lighting switch machine and other wayside equipment.			
Interface with other Contracts	DBB-450 Airport Utility Relocation DBB-470 Airport Station Construction SV-430 Airport Utility and Guideway Design SV-440 Airport Station Design MI-920 Vehicles and Systems MI-930 Escalators and Elevators OF-940 Ticket vending machines			
Force Account				
Right of Way and Construction Easements	Laydown yard(s) and casting yard, temp easements as reqd. Private property agreements / easements as required City is responsible for Master Agreements			
Design Responsibility	SV-430 TBD.			
CM Responsibility	SV-910 TBD.			

HHCTCP Contract Packaging Plan

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Contract #	**DBB-470**		**Schedule Activity #**	**I-770**
Contract Title	**Airport Stations (3) Construction (Pearl Harbor, Airport, Lagoon) Sta 1090+00 to 1300+00**		**H100, H110**	
Contract info	Design Bid Build - Construct Sealed Competitive Bid		Budgeted Cost $48,475,380	
	Bid Date 10/16/2013	Award Date 2/12/2014	NTP Date 2/13/2014	Completion Date 1/12/2017
Current Status	Advanced Conceptual Engineering Segment Lead : Kanuji Parmar / Gary Takahashi / Clyde Shimuzu (incl work by PB, RMTC, DM5, KYA)			
Scope	**Construct** 1. Obtain all required construction Permits 2. Station construction and finishes 3. Facilities Electrical & Mechanical 4. Site work around stations including demo if needed 5. Site landscaping 6. Coordiantion with the Transit Arts Program 7. Park-Ride lot construction 8. Platform to be placed on cap (caps by guideway contractor) 9. Construct canopy (foundations by guideway contractor) 10. Vertical circulation (escalators and elevators to be procured by City) 11. Construct concourse incl columns and foundations except in shadow of guideway 12 Lighting, HVAC electrical service to ancilliary space and station equipment 12. Fire suppression system(s) and equipment as reqd by City Fire Dept. 14. Installation security systems & alarms 15. Provide as-built drawings in accordance with all City and HDOT requirements Note Transit Center at Middle St by others			
Interface with other Contracts	DBB-450 Airport Utility Relocatiosn DBB-460 Airport Guideway Construction SV-440 Airport Station Design MI-920 Vehicles and Systems MI-930 Escalators and Elevators OF-940 Ticket vending machines			
Force Account				
Right of Way and Construction Easements	Laydown yard(s) and casting yard, temp easements as reqd. Private property agreements / easements as required City is responsible for Master Agreements			
Design Responsibility	SV-440 TBD.			
CM Responsibility	SV-910 TBD.			

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Contract #	**DBB-550**		**Schedule Activity #**	
Contract Title	**City Center Utility Relocations Sta 1169+44 to Sta 1470+00**		**C200, C210**	
Contract info	Design Bid Build - Construct Sealed Competitive Bid		Budgeted Cost $199,761,577	
	Bid Date 5/21/2011	Award Date 9/17/2011	NTP Date 9/18/2011	Completion Date 9/6/2013
Current Status	Preliminary Engineering (incl Utility work by PB, Control Pt, RMTowill, RonHo, ATA, Lyon) Segment Lead : Clyde Shimuzu & Lee Takushi (Dillingham Ave) Utility Conflicts being identified / Utility Relocation package being prepared			
Scope	**Construct** 1. OH and underground utility relocations (incl HECO, Gas, AT&T, Drainage, Hawaiian Telecom, Cable, Water, Sewer, Petroleum) 2. Acquire all permits required for the work 3. Provide as-built drawings in accordance with all City and HDOT requirements			
Interface with other Contracts	SV-530 City Center Utility & Guideway Design SV-540 City Center Station Design DBB-560 City Center Guideway Construction DBB-570 City Center Station Construction MI-920 Vehicle and Systems MI-930 Escalators and Elevators OF-940 Ticket vending machines			
Force Account				
Right of Way and Construction Easements	Laydown yard(s) and casting yard, temp easements as reqd. Private property agreements / easements as required City is responsible for Master Agreements			
Design Responsibility	SV-530 TBD.			
CM Responsibility	SV-910 TBD.			

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Contract # Contract Title	**DBB-560** **City Center Guideway Construct** **Sta 1169+44 to Sta 1470+00**		**Schedule Activity #** **C300, C310**	
Contract Info	Design Bid Build - Construct Sealed Competitive Bid		Budgeted Cost $373,255,409	
	Bid Date 7/7/2012	Award Date 11/3/2012	NTP Date 1/22/2013	Completion Date 6/24/2016
Current Status	Advanced Conceptual Engineering Segment Lead : Clyde Shimuzu (PB)			
Scope	**Construct** 1. Construct guideway including plinths and rail (no long span structures) 2 Install conduits for Systems contracts 3. Install anchorages and base plates for Stations contracts (9 stations not included) 4. Install 5 (18 thru 22) TPSS - (foundations, underground conduits and risers only) 5. Install conduits in cable tray inside guideway 6. Install 4 X-Overs 7. Modifications to affected intersections including signalization 8. Landscaping, fencing, civil site improvements 9. Construction of xx Type C Bents 10 Constrcution of yy Straddle Bents 11. Construct laydown yard(s) and casting yard, temp easements as reqd. 12. Acquire all permits required for the work 13. Provide as-built drawings in accordance with all City and HDOT requirements 14. Guideway electrical services for lighting switch machine and other wayside equipment.			
Interface with other Contracts	DBB-550 City Center Utility Relocation DBB-570 City Center Station Construction SV-530 City Center Utility and Guideway Design SV-540 City Center Station Design MI-920 Vehicles and Systems MI-930 Escalators and Elevators OF-940 Ticket vending machines			
Force Account				
Right of Way and Construction Easements	Laydown yard(s) and casting yard, temp easements as reqd. Private property agreements / easements as required City is responsible for Master Agreements			
Design Responsibility	SV-530 TBD.			
CM Responsibility	SV-910 TBD.			

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Contract #	**DBB-570**		**Schedule Activity #**	
Contract Title	**Dillingham Stations (3) Construction (Middle St, Kalihi, Kapalama) Sta 1090+00 to 1300+00**		**H200, H210, H220**	
Contract info	Design Bid Build - Construct Sealed Competitive Bid		Budgeted Cost $32,425,380	
	Bid Date 4/14/2014	Award Date 8/11/2014	NTP Date 8/12/2014	Completion Date 7/11/2017
Current Status	Advanced Conceptual Engineering Segment Lead : Kanuji Parmar / Gary Takahashi / Clyde Shimuzu (incl work by PB, SSFM, AM Partners,PBR Hawaii, RMTC)			
Scope	**Construct** 1. Obtain all required construction Permits 2. Station construction and finishes 3. Facilities Electrical & Mechanical 4. Site work around stations including demo if needed 5. Site landscaping 6. Coordiantion with the Transit Arts Program 7. Park-Ride lot construction 8. Platform to be placed on cap (caps by guideway contractor) 9. Construct canopy (foundations by guideway contractor) 10. Vertical circulation (escalators and elevators to be procured by City) 11. Construct concourse incl columns and foundations except in shadow of guideway 12 Lighting, HVAC electrical service to ancilliary space and station equipment 12. Fire suppression system(s) and equipment as reqd by City Fire Dept. 14. Installation security systems & alarms 15. Provide as-built drawings in accordance with all City and HDOT requirements Note Transit Center at Middle St by others			
Interface with other Contracts	DBB-550 City Center Utility Relocations DBB-560 City Center Guideway Construction SV-540 City Center Station Design MI-920 Vehicles and Systems MI-930 Escalators and Elevators OF-940 Ticket vending machines			
Force Account				
Right of Way and Construction Easem	Laydown yard(s) and casting yard, temp easements as reqd. Private property agreements / easements as required City is responsible for Master Agreements			
Design Responsibilit	SV-440 TBD.			
CM Responsibility	SV-910 TBD.			

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Contract #	**DBB-572**		**Schedule Activity #**	
Contract Title	**City Center Stations (3) Construction (Iwilei, Chinatown & Downtown) Sta 1310+00 to Sta 1390+00**		**U200, U210, U220**	
Contract info	Design Bid Build - Construct Sealed Competitive Bid		Budgeted Cost $32,425,380	
	Bid Date 7/23/2014	Award Date 11/19/2014	NTP Date 11/20/2014	Completion Date 6/14/2018
Current Status	Advanced Conceptual Engineering Segment Lead : Kanuji Parmar / Clyde Shimuzu (incl work by PB, KGP Design Studio, Hawaii Design)			
Scope	**Construct** 1. Obtain all required construction Permits 2. Station construction and finishes 3. Facilities Electrical & Mechanical 4. Site work around stations including demo if needed 5. Site landscaping 6. Coordiantion with the Transit Arts Program 7. Park-Ride lot construction 8. Platform to be placed on cap (caps by guideway contractor) 9. Construct canopy (foundations by guideway contractor) 10. Vertical circulation (escalators and elevators to be procured by City) 11. Construct concourse incl columns and foundations except in shadow of guideway 12 Lighting, HVAC electrical service to ancilliary space and station equipment 12. Fire suppression system(s) and equipment as reqd by City Fire Dept. 14. Installation security systems & alarms 15. Provide as-built drawings in accordance with all City and HDOT requirements			
Interface with other Contracts	DBB-550 City Center Utility Relocations DBB-560 City Center Guideway Construction SV-540 City Center Station Design MI-920 Vehicles and Systems MI-930 Escalators and Elevators OF-940 Ticket vending machines			
Force Account				
Right of Way and Construction Easements	Laydown yard(s) and casting yard, temp easements as reqd. Private property agreements / easements as required City is responsible for Master Agreements			
Design Responsibility	SV-540 TBD.			
CM Responsibility	SV-910 TBD.			

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Contract #	**DBB-575**		**Schedule Activity #**	
Contract Title	**Kaka'ako Stations (3) Construction (Civic Center, Kaka'ako, Ala Moana) Sta 1400+00 to Sta 1470+00**		**Y200, Y210, Y220**	
Contract info	Design Bid Build - Construct Sealed Competitive Bid		Budgeted Cost $32,425,380	
	Bid Date 4/14/2014	Award Date 8/11/2014	NTP Date 8/12/2014	Completion Date 6/4/2018
Current Status	Advanced Conceptual Engineering Segment Lead : Kanuji Parmar / Clyde Shimuzu (incl work by PB, Urban Works, Hawaii Design)			
Scope	**Construct** 1. Obtain all required construction Permits 2. Station construction and finishes 3. Facilities Electrical & Mechanical 4. Site work around stations including demo if needed 5. Site landscaping 6. Coordiantion with the Transit Arts Program 7. Park-Ride lot construction 8. Platform to be placed on cap (caps by guideway contractor) 9. Construct canopy (foundations by guideway contractor) 10. Vertical circulation (escalators and elevators to be procured by City) 11. Construct concourse incl columns and foundations except in shadow of guideway 12 Lighting, HVAC electrical service to ancilliary space and station equipment 12. Fire suppression system(s) and equipment as reqd by City Fire Dept. 14. Installation security systems & alarms 15. Provide as-built drawings in accordance with all City and HDOT requirements			
Interface with other Contracts	DBB-550 City Center Utility Relocatiosn DBB-560 City Center Guideway Construction SV-545 Kaka'ako Station Design MI-920 Vehicles and Systems MI-930 Escalators and Elevators OF-940 Ticket vending machines			
Force Account				
Right of Way and Construction Easements	Laydown yard(s) and casting yard, temp easements as reqd. Private property agreements / easements as required City is responsible for Master Agreements			
Design Responsibility	SV-545 TBD.			
CM Responsibility	SV-910 TBD.			

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Contract # Contract Title	**MI-920** **Vehicles and Systems** **Sta 370+00 to Sta 1470+00**		**Schedule Activity #** **P312, P720, P990** **P830, P945, T260**	
Contract info	Design Build Competitive - Best Value - RFP		Budgeted Cost $529,331,729	
	RFP Part 1 Date 4/9/2009	RFP Part 2 Date 7/31/2009		
	Proposal Due Date 2/26/2010	Award Date 5/21/2010	NTP Date 7/9/2010	Completion Date 3/11/2019
Current Status	Advanced Conceptual Engineering Segment Lead : Mike Becker (PB)			
Scope	**Design & Construct** 1. Design Manufacture Assemble Test Commision 60 Vehicles 2. Design Manufacture Install Traction Power Systems & Test / Commision 3. Design Manufacture Install Communication Systems & Test / Commision 4. Design Manufacture Install Signal Systems & Test / Commision 5. Systems Contract is project wide including all operation and monitoring equipment at the Manitenance Facility OCC. 6. Provide as-built drawings in accordance with all City and FTA requirements			
Interface with other Contracts	All DBB Contracts Add DB Contracts MI-930 Escalators and Elevators OF-940 Ticket vending machines			
Force Account				
Right of Way and Construction Easements	Laydown yard(s) and casting yard, temp easements as reqd. Private property agreements / easements as required City is responsible for Master Agreements			
Design Responsibility	Design-Build TBD.			
CM Responsibility	SV-910 TBD.			

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Contract #	**MI-930**		**Schedule Activity #**	
Contract Title	**Procurement, Installation, Testing Commisioning Elevators & Escalators (19 stations project wide)**		**L100, I110**	
Contract info	Design Build Competitive - Best Value - RFP		Budgeted Cost $78,167,334	
	RFP Part 1 Date	RFP Part 2 Date		
	Proposal Due Date 2/21/2011	Award Date 9/17/2011	NTP Date 9/18/2011	Completion Date 1/3/2018
Current Status	Advanced Conceptual Engineering Segment Lead :			
Scope	**Procure and Install** 1. Procure, Install, Test & Commision Elevators & Escalators at 19 stations project wide. Civil work on guideway structure and foundations within guideway shadow will be by guideway contractor. Station structure and finishes and foundations outside of guideway shadow will be by Station contractor Refer to scope of work by guideway and station contractors for details. Close coordination between contracts and strict compliance with all contract requirements including construction tolerances will be critical and must be enforced.			
Interface with other Contracts	SV-140 thru SV-545 All station design contracts DB-1200 West Oahu and Farrington DB DBB-170 thru DBB-575 All station construct contracts OF-910 Systems and Vehicles OF-940 Ticket vending machines			
Force Account				
Right of Way and Construction Easements	Laydown yard(s) and casting yard, temp easements as reqd. Private property agreements / easements as required City is responsible for Master Agreements			
Design Responsibility	Design-Build TBD.			
CM Responsibility	SV-910 TBD.			

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Contract # Contract Title	**OF-940** **Ticket Vending Machines** **Owner Furnish** **(Project wide - 19 stations)**		**Schedule Activity #**	
Contract info	Design Bid Build - Construct Sealed Competitive Bid		Budgeted Cost $5,095,413	
	Bid Date TBD	Award Date	NTP Date	Completion Date
Current Status	Segment Lead : Architect Kanuji Parmar (PB)			
Scope	**Owner Furnish** 1. Install Ticket vending machines furnished by the City.			
Interface with other Contracts	SV-140 thru SV-545 All station design contracts DB-1200 West Oahu and Farrington DB DBB-170 thru DBB-575 All station construct contracts OF-910 Systems and Vehicles			
Force Account				
Right of Way and Construction Easements				
Design Responsibility	TBD.			
CM Responsibility	SV-910 TBD.			

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Contract #	**OF-950**		**Schedule Activity #**	
Contract Title	**Plants and Shrubs** **Owner Furnish** **Sta 370+00 to Sta 1470+00**			
Contract info	Design Bid Build - Construct Sealed Competitive Bid		Budgeted Cost $5,350,000	
	Bid Date TBD	Award Date	NTP Date	Completion Date
Current Status	Segment Lead : Architect	Kanuji Parmar (PB)		
Scope	**Owner Furnish** 1. Install Plants and shrubs project wide furnished by the City. Note It may be decided later to subdivide this contract into smaller segments to allow small business landscaping firms to compete.			
Interface with other Contracts	All DB Contracts All DBB Contracts All SV Contracts			
Force Account				
Right of Way and Construction Easements				
Design Responsibility	TBD.			
CM Responsibility	SV-910 TBD.			

SUMMARY OF COST AIRPORT ALIGNMENT

Summary of Costs by contract including distribution of soft costs.
(Data source = Jim Selg Preliminary Estimate dated 9/25/06)

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by: Hubbard

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Contract#		Components of Cost (see J Selg estimates for source. Includes adjustments to redistribute to appropriate contract---)								Total Cost by Contract (not incl soft costs)	Prelim Eng 5%	Final design 4.00%	Proj Mgmt 5.00%	Const Mgmt 10%	Insurance 1.00%	Legal/permit 1.00%	Betterment 0.00%	Start up 3.00%	Total soft costs by Contract	Total Cost by Contract (incl soft costs)
MI-020	Project wide systems & Vehicles	$43,888,244	$63,882,147	$308,805,857 (30+9 vehicles)	$43,254,804	$42,853,941	$41,590,789		$9,223,004 (systems add)	$551,518,586	0	$11,012,091.81	0	0	$3,670,693.94	$3,670,693.94	$1,223,564.65	$8,564,952.52	$28,141,997	$579,660,573
DB-1200	WOahu Utility and Gudaway DB	$215,170,488	$70,114,264	$204,701,683	$171,622,003	-$79,618,172 (2 ramps)	-$94,639,287 (Rail Systems)	-$1,290,000	-$4,762,000 (Tunnel)	$554,299,219	0	$23,993,016.09	0	0	$7,694,639.39	$7,694,639.39	$2,631,346.45	$16,299,625.19	$60,295,966	$594,594,659
DB-200	Hotel & Storage Facility	$117,197,616								$117,197,616	0	$5,272,101.66	0	0	$1,797,397.22	$1,797,397.22	$598,799.08	$4,193,923.53	$13,473,169	$130,670,804
DBB-300	Pennington Hill Ramps Complex	$79,816,172								$79,816,172	0	$3,201,617.74	0	0	$1,167,272.89	$1,167,272.89	$399,999.00	$2,793,634.02	$9,179,999	$88,997,202
DBB-350	Kam Utility Relocation	$25,383,488								$29,383,488	0	0	0	0	$393,993.02	$393,993.02	$131,997.34	$923,771.38	$1,847,943	$30,241,211
DBB-400	Airport Utility Relocation	$39,444,897								$39,444,897	0	0	0	0	$578,979.31	$578,979.31	$192,223.44	$1,346,564.03	$2,691,129	$41,136,016
DBB-500	City Center Utility Relocation	$100,000,000								$100,000,000	0	0	0	0	$2,000,000.00	$2,000,000.00	$659,466.32	$4,534,241.21	$13,086,514	$113,086,514
DBB-300	Kam Guideway Construct	$29,423,171	$165,119,365	$34,418,829	-$1,290,000					$244,711,365	0	0	0	0	$3,670,670.76	$3,670,670.76	$1,223,556.92	$8,564,696.46	$17,129,797	$261,841,162
DBB-400	Airport Guideway Construct	$460,372,062								$460,372,062	0	0	0	0	$6,909,561.34	$6,909,561.34	$2,301,853.81	$16,113,932.69	$32,230,849	$492,599,129
DBB-500	City Center Guideway Construct	$30,883,159	$239,799,749	$17,829,824	-$1,290,000					$349,836,831	0	0	0	0	$5,232,952.47	$5,232,952.47	$1,744,184.16	$12,209,288.09	$24,418,579	$374,255,409
DBB-170	WO Station Construct (3)	$30,881,310								$30,881,310	0	0	0	0	$460,218.60	$460,218.60	$153,406.20	$1,073,843.40	$2,147,692	$33,029,002
DBB-270	Pennington Station Construct (3)	$30,544,679								$30,544,679	0	0	0	0	$455,161.05	$455,161.05	$151,720.35	$1,062,042.45	$2,123,085	$32,667,765
DBB-370	Pearl Highland Sta (1) & Garage Constr	$64,710,844								$64,710,844	0	0	0	0	$970,666.65	$970,666.65	$323,553.22	$2,264,872.64	$4,529,745	$69,240,589
DBB-470	Kam Stations (2) Construct	$29,965,488								$29,965,488	0	0	0	0	$449,529.12	$449,529.12	$149,843.04	$1,049,004.28	$2,098,757	$32,064,197
DBB-470	Airport Stations (3) Construct	$45,304,094								$45,304,094	0	0	0	0	$679,561.41	$679,561.41	$226,520.47	$1,585,642.29	$3,171,287	$48,475,380
DBB-570	Dillingham Stations (3) Construct	$30,304,094								$30,304,094					$454,561.41	$454,561.41	$151,520.47	$1,060,643.29	$2,121,287	$32,425,380
DBB-572	City Center Stations (3) Construct	$30,304,094								$30,304,094	0	0	0	0	$454,561.41	$454,561.41	$151,520.47	$1,060,643.29	$2,121,287	$32,425,380
DBB-670	Kaka aka stations (3) Construct	$30,304,094								$30,304,094	0	0	0	0	$454,561.41	$454,561.41	$151,520.47	$1,060,643.29	$2,121,287	$32,425,380
MI-030	Project Wide Elevators & Escalators	$10,039,109	$10,039,033	$6,892,740	$13,265,478	$10,039,109		$10,039,109 (moved elev add 3 sta)	$10,039,109	$85,144,241	0	$3,676,466.36	0	0	$1,292,105.12	$1,292,105.12	$430,701.71	$3,015,091.84	$6,809,969	$91,954,210
OF-040	Project Wide TVM	$4,762,094								$4,762,094	0	0	0	0	$71,431.42	$71,431.42	$23,810.34	$166,672.39	$333,346	$5,095,413
OF-050	Project Wide Plants & Shrubs	$5,000,000								$5,000,000	0	0	0	0	$75,000.00	$75,000.00	$25,000.00	$175,000.00	$350,000	$5,350,000
ROW	ROW	$43,793,192	$6,701,671	$6,304,670	$10,982,809	$67,533,590				$137,195,932	0	0	0	0	0	0	0	0	0	$137,195,932
SV-000	Project Wide Program Mgmt										0	0	145,754,232	0	0	0	0	0	$145,754,232	$145,754,232
SV-010	Project Wide Constr Mgmt										0	0	0	295,007,884	0	0	0	0	$295,007,884	$295,007,884
SV-030	Kam Utility & Gidaway Design										0	12,199,716	0	0	0	0	0	0	$12,199,716	$12,199,716
SV-130	Airport Utility & Guideway Design										0	22,449,786	0	0	0	0	0	0	$22,449,786	$22,449,786
SV-230	City Center Utility & Guideway Design										0	24,099,649	0	0	0	0	0	0	$24,099,649	$24,099,649
SV-140	WO Stations (3) Design										0	1,200,000	0	0	0	0	0	0	$1,200,000	$1,200,000
SV-340	Pennington Stations (3) Design										0	1,274,483	0	0	0	0	0	0	$1,274,483	$1,274,483
SV-240	Pennington Hill Ramps Design										0	3,091,819	0	0	0	0	0	0	$3,091,819	$3,091,819
SV-345	Pearl Highland Sta & Gar Design										0	2,211,270	0	0	0	0	0	0	$2,211,270	$2,211,270
SV-340	Kam Stations (2) Design										0	926,578	0	0	0	0	0	0	$926,578	$926,578
SV-440	Airport Stations (3) Design										0	2,036,894	0	0	0	0	0	0	$2,036,894	$2,036,894
SV-540	City Center Stations (3) Design										0	1,363,884	0	0	0	0	0	0	$1,363,884	$1,363,884
SV-542	Dillingham Stations (3) Design										0	1,363,884	0	0	0	0	0	0	$1,363,884	$1,363,884
SV-640	Kaka Aka Stations (3) Design										0	1,363,884	0	0	0	0	0	0	$1,363,884	$1,363,884
Prelim Eng											$79,002,368	0	0	0	0	0	0	0	$79,002,368	$79,002,368
TOTALS										$3,004,670,139	$79,002,368	$122,466,667	$145,754,232	$295,007,884	$39,791,184	$39,791,184	$13,263,728	$92,782,096	$736,179,068	$3,802,283,734
																			Project Reserve	$333,816,934
																			Grand Total (09 2007)	$4,136,700,668

AR00140364