STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION

ADDENDUM NO. 2

FOR

KUNIA ROAD IMPROVEMENTS

VICINITY OF SOUTH KUPUNA LOOP TO VICINITY OF HONOWAI STREET

PROJECT NO. HWY-O-01-04

DISTRICT OF EWA

ISLAND OF OAHU

2004

Amend the Bid Documents as follows:

A. SPECIAL PROVISIONS

Replace pages 712.37-1a thru 712.37-4a dated 9/19/00 with the attached pages 712.37-1a thru 712.37-4a dated r2/19/04.

B. PROPOSAL

The attached Proposal Preferences pages P-5S-1 thru P-5S-7 dated r2/20/04 shall be inserted after Proposal page P-5 and shall be incorporated and made a part of the Proposal.

C. ADDENDUM NO. 1

This is to clarify Addendum No. 1; subsection C. Plans, paragraph no. 2 that there are no changes to the original Plan Sheet No. 34 as specified in Addendum No. 1 dated 2/11/04.

Please acknowledge receipt of this Addendum No. 2 by recording the date of its receipt in the space provided on page P-4 of the Proposal.

RODNEY K. HARAGA
Director of Transportation

HWY-O-01-04

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SECTION 712 - MISCELLANEOUS

Make the following amendments to said Section:

(I) Amend 712.37 Controller Equipment to read as follows:

"712.37 Controller Equipment.

(A) Controller Assembly. Controller Assembly shall consist of a Model 170 Controller, Cabinet, and Auxiliary Equipment. Except where noted, only manufacturers and products listed on the current State of California, 'Qualified Products List (QPL) for Model 170 Controller Assembly', from the California Department of Transportation (CALTRANS) shall be acceptable. A copy of the latest QPL is available from the City & County of Honolulu, DTS, Phone (808) 527-6988.

The Contractor should review Section 623.03(G)(2)(a) concerning quality control and testing prior to field installation.

For this project, Controller Assemblies are described and supplied as follows:

- (1) Type '170' Controller Assembly and Model 332 Controller Cabinet shall mean the latest Model 170 Controller Assembly and Model 332 Controller Cabinet on the most current CALTRANS Qualified Products List (QPL).
- (2) Each Controller Assembly shall contain the sufficient amount of items listed below for a full 8 vehicle, 4 pedestrian and 4 preemption phase intersection, even though the plans does not reflect it.

<u>ltem</u>	Quantity
Model 170 Controller	1
Model 412C Prom Module	1
Model 400 Modem	1
332A Aluminum Cabinet	1
Model 200 Load Switches	12
Model 204 Flasher	All
Model 242 Isolators	2
Model FS/ST Isolator	All
Flash Transfer Relays	All
Model 210 Conflict Monitor	1
Model 262C Detector Amplifiers (Rotary Sw Type)	8
Model M752 Preempt. Car (Non-QPL)	2
Model UTS (Non-QPL)	1

- **(B) Model 170 Controller.** Each Model 170 Controller shall meet the following additional requirements:
 - (1) Model 412C Prom Module includes a 27256 EPROM Chip
 - (2) A Supercap replaces the battery as the standby power supply to keep the DTA and RAM on the CPU board powered for at least 8 hours during ac power loss.
 - (3) Dual ACIAs, C2 and C20, serial communication ports.
 - (4) All Controller Boards mounted vertically.
 - (5) One Manual with each controller.
 - **(6)** Documented Validation Testing according to CALTRANS test specifications.
- **(C) Cabinet.** Each 332A Cabinet shall meet the following additional requirements:
 - (1) Minimum Wired for 8 vehicle phases, 4 pedestrian phases, and 4 preemption phases.
 - (2) Cabinets fabricated from 0.125 anodized Aluminum.
 - (3) Cabinet's Main Breakers shall be rated as 50 amps.
 - (4) Entire Output File copper hard-wire of sufficient gauge to withstand current surges before circuit breakers or surge protectors trip.
 - (5) A LED Display for Modem Transmit, Receive, and Carrier Detect status will be clearly visible after opening the cabinet's front door. Indicators mounted on a 0.75 Inch x 2 Inch aluminum assembly will be attached to the top center of the cabinet's rack. Indicators will derive their signals from the C2 ACIA and wiring will be bundled with a protective jacket.
 - (6) C2 Terminal Blocks protected from current surges by EDCO PC642 or equal.
 - (7) Input File and Field Terminal Blocks wired for 3M M752 Opticom Priority Module EVA, EVB, EVC, and EVD.
 - (8) Front and back fluorescent lights activated upon opening any door.

- (9) Convenience GFI Receptacles.
- (10) Door locks of solid brass rim Best Lock Series 516RL3XA7559-606 and include 2 keys.
- (11) Labeling by Silk-Screening only.
- (12) Output File Terminal Blocks labeled in reference to its assigned phase and signal indications.
- (13) Attach One Each 24-Inch x 36-Inch Cabinet Print in a weatherproof plastic jacket to front and back cabinet doors.
- (14) Documented validation testing of cabinet and conflict monitor according to CALTRANS test specifications.
- **(D)** Auxiliary Equipment. Deliver the controller unit supplied with the following auxiliary equipment:

Auxiliary equipment not on the QPL shall meet the following pertinent requirements:

- (1) Model M752 Optical Preemption Module. The M752 will be card-type and will interface with the Model 170 cabinet preemption slots of the input file. Each M752 Module will have 2 channels of preemption. The M752 will include firmware to discriminate between the two valid priority signals, to prioritize valid same priority signals on a first come basis, and to override the low priority signal if a high priority is received. The M752 Module will receive input signals (9.639 and 14.035 hz) to permit priority preemption operation within the 170 local intersection program. M752 will optically isolate output signals and will trigger an active low signal to the controller for high priority and a pulsed active low signal for low priority. Honolulu's preemption system already employs the 3M Opticom System, all new preemption equipment will be by this manufacturer.
- (2) <u>Universal Time Standard (UTS) Module</u>. The UTS Module will be a stand alone precision clock located in the Controller Cabinet which shall update the internal clock of the Model 170 controller by decoding Five Broadcast Frequencies (2.5, 5, 10, 15, 20 Mhz) transmitted by WWVH of the U.S. National Institute of Standards and Technology. All hardware and software of the UTS equipment will be compatible without any modification to the Model 170 Hardware or Software. The UTS Module shall have the following specifications:

1.5 ms Time Accuracy; 2 - 4 Minutes Time to Acquire; Minimum 5 - Frequency, AM, Crystal-Controllered, Dual Conversion, Superheterodyne Receiver; Automatic Scan 5 Frequencies; Data Output RS-232C, 1200 & 2400 Baud rate, No Parity, 8 Data Bits, 1 Stop Bit; One Hour Selectable Time Zones: Daylight Saving Time Option; 24 Hour Time Format; Month, Day, and Year Date; DB25-RS232 and BNC Antenna Connector; DB25 to Model 170 C2 Cable and Connectors; 2-foot outdoor Whip Antenna with Pole Adapter Bracket; 100 linear feet of RG-58 Coaxial Cable with Connectors; Approximate Size 1.5 Inch H x 8 Inch W x 9 Inch D and Weight 1.5 Lbs.; 24 VDC; Traconex / Multisonics UTS Model 1010 or equal. All UTS equipment and antennas will be installed by the Contractor and included in the controller assembly bid."

END OF SECTION

PREFERENCES

- 1. The bidder agrees that preferences shall be taken into consideration to determine the low bidder in accordance with said Sections and the rules promulgated, however, the award of contract will be in the amount of the bid offered exclusive of any preferences.
- 2. It is further understood by the bidder that if the bidder elects to furnish qualified Hawaii Products, and is awarded the contract, then fails to use such products or meet the requirements of such preference, the bidder shall be subject to the statutory penalties, provided in Section 103D-1002, HRS, and such other remedies as may be available to the State.

HAWAII PRODUCTS PREFERENCE

It is understood that certain Hawaii products as described in the schedule below are acceptable for use in this project and that, pursuant to Sections 103D-1002, HRS, which provides preference for Hawaii Products, the bidder proposing to use such Hawaii products must fill in the schedule below.

However, where there are a number of qualifying classes of Hawaii products of a given description, the bidder must indicate on the schedule which class will be furnished by circling the class of the particular Hawaii product that will be used. Otherwise, preference will be given based on the class with the lower percentage.

If the bidder proposes to use Hawaii Products, the bidder must so designate in said schedule by entering the cost of such product in the appropriate space provided. Failure on the part of the bidder to designate the use of Hawaii products will automatically void any preference for that product.

The control of the product.							
	SCHEDULE OF ACCEPTABLE HAWAII PRODUCT						
AND DESIGNATION OF HAWAII PRODUCTS TO BE USED							
ACCEPT	HAWAII PRODUCTS TO BE USED						
DESCRIPTION	CLASS	MANUFACTURER VENDOR	Cost FOB Jobsite, Unloaded Including Applicable General Excise & Use Taxes	%	Credit		
			(a)	(b)	(a) x (b)		
Aggregates (All Islands)	III	West Hawaii Concrete	\$	10%	\$		
Aluminum and Galvanized Pipes (All Islands)	l	Hawaii Concrete Products, Inc.	\$	3%	\$		
Asphalt Concrete Mixes	=	Grace Pacific Corporation	\$	5%	\$		
(Oahu)	Ш	Jas. W. Glover, Ltd.	\$	10%	\$		

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III	Grace Pacific Corporation	\$	10%	\$
III	Hawaiian Cement	\$	10%	\$
==	Ameron International Corp. dba Ameron Hawaii	\$	10%	\$
. III	Jas. W. Glover, Ltd.	\$		\$
		\$	10%	\$
=	RJA General Contracting	\$	10%	\$
111		\$	10%	\$
III	West Hawaii Concrete	\$	10%	\$
511	Ameron International Corp., dba Ameron Hawaii	\$	10%	\$
III	Tileco, Inc.	\$	10%	\$
III		\$	10%	\$
III	Hawaii Concrete Products, Inc.	\$	10%	\$
		\$	5%	\$
III	Hawaiian Earth Products, Ltd.	\$		\$
III	Hawaiian Earth Products Ltd.	\$	10%	\$
Ш	Sanford's Service Center,	\$	10%	\$
Ш	Hawaii Precast, Inc.			\$
		III Hawaiian Cement III Ameron International Corp. dba Ameron Hawaii III Jas. W. Glover, Ltd. III Kauai Nursery and Landscaping, Inc. III Hawaii Precast, Inc. III West Hawaii Concrete III Ameron International Corp., dba Ameron Hawaii III Tileco, Inc. III Jas. W. Glover, Ltd. III Hawaii Concrete Products, Inc. III Bomat, Ltd. dba Bonded Materials Company III Hawaiian Earth Products, Ltd. III Hawaiian Earth Products, Ltd. III Sanford's Service Center, Inc. III Hawaii Precast, Inc.	III Hawaiian Cement III Ameron International Corp. \$	III

Drainage Infrastructure					
Drain Inlet for	11	Hawaii Precast, Inc.		ı]
Site Drainage	- 11	nawali Frecast, Ilic.			
(All Islands)	i	ļ	 \$	5%	s
Drainage			3	3%	Ψ
Infrastructure			,		i 1
Drain Manhole	i) <u> </u>
for Site Drainage	IH	Hawaii Precast, Inc.			1
System			\$		(<u> </u>
(All Islands)			Ψ	10%	s
Drainage				10 /6	Ψ
Infrastructure	ì	Į.	. :		!
Drywell Ring for					1
Site Drainage or	III	Hawaii Precast, Inc.			
Cesspool	ı		\$]]
(All Islands)			Ψ	10%	s
Drainage				10/0	Ψ
Infrastructure		[<u>-</u>] [
Sewer Manhole	111	Hawaii Precast, Inc			l i
(All Islands)			\$	10%	\$
Electrical				1070	Ψ
Pullboxes	111	RJA General Contracting	\$		
(All Islands)	•••			10%	s
Electrical Utilities				1070	Ψ
2X4 Concrete				l	ļ "
Pullbox for	II.	Hawaii Precast, Inc.			
Electrical Utilities			\$		
(All Islands)		}		5%	 s
Electrical Utilities					
Concrete Median				ı	1
Traffic Barriers		Name: Branch Inc			
for Traffic	Ш	Hawaii Precast, Inc.			
Control			\$		\ \
(All Islands)				10%	\$
Grade "A" Basalt		Ameren International Corn	*		
Aggregate		Ameron International Corp. dba Ameron Hawaii			1
(Oahu and Maui)	ì	uba Ameron Hawaii	\$	10%	is ii
Grade "A" Basalt					
Aggregate	Ш	Jas. W. Glover, Ltd			1
(All Islands)			\$	10%	\$
Grade "B" Basalt		Ameron International Corp.			
Aggregate		dba Ameron Hawaii			
(Oahu and Maui)		MUM AITIGIOTI TAWAII	\$	10%	\$
Hydromulch	111	INTECH Incorporated.			
(All Islands)		in a recommendated.	\$	10%	\$
Incide PC					
Insulation	Ш	INTECH Incorporated.	\$		
(All Islands)				10%	\$
Kauai Compost	111	Kauai Nursery and]]
(All Islands)		Landscaping, Inc.	\$	10%	\$
Limestone Coral	ı				
Aggregate	HI	Jas. W. Glover, Ltd.			
(All Islands)			\$	10%	\$

			T		 _
Limestone Coral Aggregates & Sand (Oahu)	III	Grace Pacific Corporation	\$	10%	\$
Limestone Coral Sand (All Islands)		Jas. W. Glover, Ltd.	\$	10%	\$
Limestone Masonry Sand (All Islands)		Tileco, Inc.	\$	10%	\$
Masonry Cement (Super mortar) (All Islands)	1	Hawaiian Cement	\$	3%	\$
Metal Roofing Panels and Sheet Metal components (All Islands)	1	HPM Building Supply	\$	3%	\$
Meter Boxes and Covers (All Islands)	≡	Ameron International Corp., dba Ameron Hawaii	\$	10%	\$
Organic Compost (All Islands)	Ш	Hawaiian Earth Products Ltd.	\$	10%	\$
Organic Soil Conditioner, Burnt Bagasse Mix	111	Halawa Garden Products, Inc.	es	10%	\$
Organic Soil Conditioner (All Islands)	Ш	Hawaiian Earth Products Ltd.	\$	10%	\$
Overhead Line Utilities Pole Anchor Slugs for Overhead or Telephone Utilities (All Islands)	III	Hawaii Precast, Inc.	\$	10%	\$
Pole Anchor Slugs for Overhead or Telephone Utilities (For all Islands)	111	Hawaii Precast, Inc.	\$	10%	\$
Portland Cement – Type I/II (All Islands)	ı	Hawaiian Cement	\$	3%	\$
Portland Cement and Concrete Mixes (Oahu)	III	Hawaiian Cement	\$		\$
Portland Cement Concrete Ready Mix (Oahu and Maui)	111	Ameron International Corp., dba Ameron Hawaii	\$	10%	\$
Precast Box Culverts (All Islands)	111	Walker Industries, Ltd.	\$	10%	\$
Precast Catch Basins (All Islands)	III	Walker Industries, Ltd.	\$	10%	\$

			, 		
Precast Concrete Drywell					
Rings and Covers	111	RJA General Contracting			
(All Islands)				400/	
	<u> </u>		\$	10%	₽
Precast Concrete	Ì]		
Structures		Aloha Precast, Inc.		400/	
(All Islands)			\$	10%	\$
Precast Con/Span Arch		L			
Culverts		Walker Industries, Ltd.			
(All Islands)	ļ		\$	5%	\$
Precast Drop Inlets	l m	RJA General Contracting			
(All Islands)		1 to t Gerioral Geriadoling	\$	10%	\$
Precast Hand Holes	lm	RJA General Contracting]]
(All Islands)		TWA General Contracting	\$	10%	\$
Precast and Prestressed	ļ		ļ .		<u> </u>
Structural and Architectural					
Concrete Products	l	Rocky Mountain Prestress	· .		
(All Islands)	'''	1 TOCKY WOUTHAITT TESTIESS	}		1
			1		1
			\$	10%	\$
Precast Manhole Cones	111	Hawaii Concrete Products, Inc.	Ì		1
and Risers		lawan Concrete Froducts, inc.	\$	10%	\$
(All Islands)	Lini	Walker Industries, Ltd.			
<u> </u>		Walker floustries, Ltd.	\$	10%	\$
Precast Utility Vaults			_		
(Telephone & Electrical)	Ш	l Walker Industries, Ltd.	1		1 1
(All Islands)	'''	Waiker industries, Ltd.			
			\$	10%	\$
Preformed Metal Roofing	1				
(Oahu, Hawaii, Kauai,	L	Ferro Union Hawaii, Inc.	1		1
Maui, Molokai)	l '	reiro Union Hawaii, inc.	,		[
1		•	\$	3%	\$
Ready Mix Concrete:					
Portland Cement Concrete	۱	 West Hawaii Concrete	}		1
Mixes	""	Vvest Hawaii Concrete			
(All Islands)			\$	10%	\$
Reinforced Concrete Pipe		A Intotion - Co			
(Non Cylinder)	111	Ameron International Corp.,			
(All Islands)	l	dba Ameron Hawaii	\$	10%	\$
Rigid Vinyl Framed					
Windows & Doors	11	Coastal Windows Inc.			
(All Islands)			\$	3%	\$
Segmental Retaining Wall	Γ				
Units	III	Tileco, Inc.			
(All Islands)	1		\$	10%	\$
Sewer Manhole	Γ	Harris Branch I			
(All Islands)	III	Hawaii Precast, Inc.	\$	10%	\$
	†				
Signs	II	Sun Industries, Inc.	\$	5%	\$
Sized Basalt Rock (Oahu)		Ameron International Corp.			
Carry	Ш	dba Ameron Hawaii	\$	10%	\$
Sized Basalt Rock			-	. 5 / 6	
(All Islands)	111	Jas. W. Glover, Ltd	\$	10%	\$
<u> </u>	Ц.,	<u> </u>	<u> </u>	1070	<u> </u>

Soil Blends		Hawaiian Earth Products	T I		
(All Islands)	111	Ltd.	s	10%	s
Traffic and Construction Signs	H	Safety Systems Hawaii, Inc.	\$	5%	
Underground Utilities 2X4 Concrete Pullbox (#435 Telephone or Cable TV Utilities) (All Islands)		Hawaii Precast, Inc.	\$	5%	
Underground Utilities DPW 9X9 Standard R-40 Drywell Cover (All Islands)	II	Hawaii Precast, Inc.	\$	5%	\$
Underground Utilities (Electrical Lines) HELCO Handhole (All Islands)	ii	Hawaii Precast, Inc.	\$	5%	\$
Underground Utilities (Electrical Lines) HELCO Manhole (All Islands)	III	Hawaii Precast, Inc.	\$	10%	
Underground Utilities (Telephone Lines) GTE H2O Loading Handhole (All Islands)	11	Hawaii Precast, Inc.	c	5%	ď.
Underground Utilities (Telephone Lines) GTE Manholes (All Islands)	II	Hawaii Precast, Inc.	\$	5%	
Underground Utilities (Telephone Lines) GTE Parkway Handhole (All Islands)	Ш	Hawaii Precast, Inc.	\$	5%	Ç
Underground Utilities (Telephone Lines) HTCO Handholes (All Islands)	ll .	Hawaii Precast, Inc.	\$	5%	
Wood Furniture, Cabinetry and Millwork	Ш	Martin & MacArthur Enterprises, Ltd.	\$	5%	\$
			TOTAL		\$

The bidder agrees that preference for Hawaii products shall be taken into consideration to determine the low bidder according to said Sections and the rules promulgated, however, the award of contract will be in the amount of the bid offered exclusive of any preferences.

It is further understood by the bidder that if the bidder elects to furnish qualified Hawaii Products, and is awarded the contract, then fails to use such products or meet the requirements of such preference, the bidder shall be subject to the statutory penalties, provided in Section 103D-1002, Hawaii Revised Statute, and such other remedies as may be available to the State.

RECYCLED PRODUCT PREFERENCE.

Recycled product preference shall not apply to this proposal.