STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION

ADDENDUM NO. 2

FOR

HAWAII BELT ROAD SAFETY IMPROVEMENTS IN THE VICINITY OF PAPAIKOU MILL ROAD

PROJECT NO. 19J-01-10

DISTRICTS OF SOUTH HILO ISLAND OF HAWAII

FY 2010

Amend the bid documents as follows:

1. PRE-BID MEETING

A pre-bid meeting was held on May 2, 2011. Attached is a copy of meeting sign-in sheet, and responses to prospective bidder's questions for your information.

2. SPECIAL PROVISIONS

- a. Replace Table of Contents Pages 1 through 2 dated 01/27/11 with the attached Pages 1 through 2 dated r5/12/11.
- b. Replace Pages 615-1a through 615-2a dated 11/04/10 with the attached Page 615-1a through 615-2a dated r5/12/11.
- c. Replace Pages 623-1a dated 02/01/11 with the attached Page 623-1a dated r5/12/11.
- d. Replace Pages 695-1a through 695-3a dated 02-01-11 with the attached Page 695-1a through 695-4a dated r5/12/11.

3. PROPOSAL SCHEDULE

a. Replace Page P-10 through P-12 dated 1/27/11 with the attached Pages P-10 through P-12 dated r5/12/11.

4. PLANS

a. Replace Plan Sheets No. 11, 13, 14, 15, 19 and 22 with the attached Plan Sheet No. ADD. 11, 13, 14, 15, 19 and 22.

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.

GLENN M. OKIMOTO, Ph.D.

Director of Transportation

PRE-BID MEETING ATTENDANCE SIGN-IN SHEET

Project Name: Hawaii Belt Road Safety Improvements, in the Vicinity of Papaikou Mill Road

Project No.: 19J-01-10

Date:

May 2, 2011 (9:00 AM)

Name	Agency/Business	Phone No.	Fax. No.
Julienne Fronda	D6T- HWY-TD	692-7681	
PETER CHAN Cole Millare	DOT HWY-TD	692-7680	
Cole Millare	GP Roadway Solutions	2/6-2456	
	(
-			
, , , , , , , , , , , , , , , , , , ,	:		41. No. 2740(40-00-01-01-01-01-01-01-01-01-01-01-01-01
			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	C STATE OF S		
•			
			IMMAGO 5 0 2
MARCH HARMANIAN THE TAX OF THE PROPERTY OF			The second secon
PROGRAMMENT OF THE SECOND STATE OF THE SECOND			

HAWAII BELT ROAD SAFETY IMPROVEMENTS IN THE VICINITY OF PAPAIKOU MILL ROAD Project No. 19J-01-10

May 2, 2011 Pre-Bid Meeting:

See sign-in sheet for names of prospective bidders attended the meeting.

Questions Submitted by Prospective Bidders:

Plans:

A. Sheet No. 11 – Callouts are missing for proposed pavement striping and rumble strip work.

Revised plan to show callouts for pavement striping and rumble strip work.

B. Sheet No. 11 – Would the existing metal sign posts for designation signs (e.g., D1-2A to D1-2D) be replaced with new ones?

Revised plan and sign keys. The existing metal sign posts shall remain in place. Contractor shall clean and paint the posts, and install new signs.

C. Sheet No. 14 – The pavement words "SCHOOL" and "PED" together would have exceeded the lane width...please verify.

Revised plan to show "PED X-ING AHEAD". When approaching a designated school crossing, the pavement words shall be changed to "SCHOOL X-ING AHEAD".

D. Sheet No. 19 – Would product substitution be allowed for the driver feedback speed sign?

The display system callout has been revised to read: "RU2 FAST 375, IDC SPEEDCHECK 1820 OR EQUAL".

Also, the callout for "Type I Signal Standard" height has been revised to read: "16 Ft. +/-", to be consistent with the height dimension shown.

E. Sheet No. 22 - Could the RM-5 Reflector Marker be made of plastic?

Revised plan to allow RM-5 Reflector Marker to be made of galvanized steel or plastic.

Specifications:

F. Special Provisions Sec. 615.03 (D) – Would the milling waste materials become property of the State, and where would the materials be delivered to?

Revised Sec. 615.03 (D) to clarify that the waste materials will become State property, and Contractor shall deliver the waste materials as directed by the Engineer to location(s) within 10-mile radius of project site.

G. Special Provisions Sec. 623.05 – Would solar-powered flashers be allowed instead of hard-wired flashers?

Existing flashers are hard-wired to existing electrical line. Revise specifications to clarify new flashers are to be hard-wired.

H. Special Provisions Sec. 695 – Driver Feedback Speed Sign. The specs may have been a mix of several sign specs, with inconsistent equipment and/or performance requirements.

Will revise the entire Special Provisions Sec. 695.

I. Special Provisions Sec. 695 (B) – Would the speed sign be required to have different display for weekends and holidays?

No. The speed sign will not be required to have different displays for different time or day.

J. Special Provisions Sec. 695 (B)(1) – Would speed sign using a full-matrix solid-state numeric display be allowed?

Revised specifications to allow both full-matrix and seven-segment numeric displays.

K. Special Provisions Sec. 695 (D)(3) – Would the required timer be equipped with a 24-hour clock or 365-day clock?

The timer requirement will be eliminated, as the sign will not be used on a time-specific basis.

L. Special Provisions Sec. 695 (E)(2) – Is training (2 hours) be required as a part of the bid?

Potential bidder shall provide 2-hour training as directed by the Engineer for the HDOT Highways Div. Hawaii District personnel.

M. Proposal Schedule Sht. P-11 – Missing contract item for pavement striping work.

Revised Proposal Schedule to include item: Type "H" Pavement Markers.

TABLE OF CONTENTS

Notice to Bidders

Instructions for Contractor's Licensing

Special Provisions Title Page

Special Provisions

DIVISION 100 - GENERAL PROVISIONS						
Section	ection Description Pages					
102	Bidding Requirements and Conditions	102-1a – 102-13a				
103	Award And Execution Of Contract	103-1a – 103-4a				
104	Scope of Work	104-1a – 104-2a				
105	Control Of Work	105-1a – 105-3a				
106	Material Restrictions and Requirements	106-1a				
107	Legal Relations and Responsibility To Public	107-1a - 105-2a				
108	Prosecution And Progress	108-1a – 108-2a				
109	Measurement and Payment	109-1a				

DIVISION 200 EARTHWORK				
Section	Description Pages			
209	Temporary Water Pollution, Dust, and			
	Erosion Control	209-1a		

DIVISION 600 - INCIDENTAL CONSTRUCTION				
Section Description Page				
615	Milled Rumble Strip	615-1a – 615-2a		
623	Traffic Signal System	623-1a		
629	Pavement Markings	629-1a		
651	Delineation Curb System	651-1a – 651-2a		
695	Driver Feedback Speed Sign	695-1a – 695-4a		
699	Mobilization	699-1a		

Requirements of Chapter 104, HRS Wages and Hours of Employees on Public Works Law

Proposal Title Page

Proposal	P-1 – P-9
Proposal Schedule	P-10 - P-13

Supplement to Proposal Schedule F	² -14 – P17
Surety Bid Bond	
Sample Form Title Page	
Contract	
Performance Bond (Surety)	
Performance Bond	
Labor and Material Payment Bond (Surety)	
Labor and Material Payment Bond	

END OF TABLE OF CONTENTS

Chapter 104, HRS Compliance Certificate

Certification of Compliance for Final Payment

1 2	Make the following Section a part of the Standard Specifications:
3	
4 5	"SECTION 615 – MILLED RUMBLE STRIP
6 7 8	615.01 Description. This section describes constructing Centerline, Shoulder, and Edgeline Milled Rumble Strips (MRS) in HMA pavement.
9 10	615.02 Materials. None.
11 12	615.03 Construction.
12 13 14 15 16	(A) Submittal. Method of constructing the milled rumble strip shall be submitted to the Engineer for acceptance. Meeting shall be scheduled 14 days before start of construction work. Discuss sequence of work plans, and proposal for dust control.
18 19 20 21	(B) Equipment. Milling equipment shall be equipped with a rotary-type cutting head with cutting tips arranged in a pattern as to provide a relatively smooth cut, approximately 1/16 inches between peaks and valleys.
22 23 24 25	The cutting head(s) shall be on a suspension independent from the power unit to allow the head(s) to self-align with surface slopes and irregularities.
26 27 28 29	The machine shall have a guidance system that provides consistent alignment of each cut in relation to the roadway and provide uniformity and consistency throughout the project.
30 31 32 33	(C) Longitudinal Spacing. The Milled Rumble Strips (MRS) shall be placed perpendicular to the roadway with longitudinal spacing as follow:
34 35 36 37	16-Inch Centerline MRS: Double 10-Inch Centerline MRS: Shoulder MRS: Edgeline MRS: 20 inch on-center 12 inch on-center 12 inch on-center
38 39 40 41 42	The 20 inch on-center longitudinal spacing for 16-Inch Centerline MRS is designed to accommodate multiple centerline pavement striping and raised pavement marker configurations. It will allow placement of raised pavement markers between the concave depressions.
43 44 45 46	(D) Milling Operations. Clean pavement surface before constructing the rumble strips. Mill the concave depressions to the dimensions shown in the plans.

47

48	Align the concave depressions as shown in the plans. Alignment
49	of milled rumble strips shall not deviate from the plans more than \pm 2
50	inches.
51	
52	After the concave depressions are milled into the pavement
53	surface, use a power broom or sweeper/vacuum to collect the waste
54	material resulting from the milling operations.
55	
56	The milling waste materials shall become the property of the State.
57	Contractor shall deliver the waste materials as directed by the Engineer to
58	location(s) within 10-mile radius of project site at no increase in contract
59	price or contract time.
60	
61	615.04 Measurement. Milled Rumble Strip will be paid on a contract lump
62	sum basis. Measurement for payment will not apply.
63	
64	615.05 Payment. The Engineer will pay for the accepted milled rumble strip
65	on a contract lump sum basis. Payment will be full compensation for the work
66	prescribed in this section and the contract documents.
67	The Engineer will new feather following new items
68	The Engineer will pay for the following pay item:
69 70	Pay Item Pay Unit
70 71	Pay Item Pay Unit
72	Double 10-Inch Milled Rumble Strip, Centerline Lump Sum"
73	bodbie 10-men Milled Numble Strip, Centenine Lump Sum
74	
7 4 75	
76	
77	END OF SECTION 615
78	LIAD OF GEOTION OF
, 0	

1 2	SECTION 623 – TRAFFIC SIGNAL SYSTEM
3	Make the following amendments to said Section:
4 5 6 7	(I) Amend Subsection 623.04 – Measurement from lines 578 to 579 to read as follows:
8 9 10	"623.04 Measurement. The Engineer will measure the LED flasher assembly per each complete in place."
11 12 13	(II) Amend Subsection 623.05 – Payment from lines 581 to 594 to read as follows:
14 15 16 17 18 19 20 21	"623.05 Payment. The Engineer will pay for the accepted flasher (Yellow LED) assembly at the contract unit price per each complete in place. The price includes full compensation for removing the existing flasher, submitting the equipment list and drawing; assembling flasher controller to the existing utility pole; hard-wiring to existing electrical power source; bonding and grounding; testing; providing turn-on service; submitting warranty; and furnishing equipments, tools, labor, materials and other incidentals necessary to complete the work.
23 24 25	The Engineer will pay for the following pay item when included in the proposal schedule:
26 27	Pay Item Pay Unit
28 29 30 31 32	Flasher (Yellow LED) Assembly Each"
33	END OF SECTION 623

1	Make the fol	lowing	Section a part of the Standard Specification:		
2 3	"SECTION 695 – DRIVER FEEDBACK SPEED SIGN				
4					
5 6 7	measuremer solar panel a	nt and assemb	ion. This work includes furnishing and installing a speed display system with post, foundation, mounting assembly, by, battery housing assembly, deep cycle solar rated battery,		
8	cabinet, and	incide	ntal work necessary to complete the work.		
9 10	695.02 Ma	aterials	5.		
11	(4)	0			
12 13	(A)		ral. The Driver Feedback Speed Sign is a dynamic numeric ves motorists passing through a speed zone, real time		
14	_	_	to their vehicle's speed via radar speed detection. The		
15			d is to be detected via a radar module mounted within the		
16	sign e	nclosu	re.		
17					
18		(1)	Sign Background: The sign background surface shall be		
19		standa	ard <u>YELLOW</u> 3M Scotchlite Reflective Sheeting or equivalent;		
20		(2)	Sign size shall be minimum 36" wide by 48" high;		
21 22		(2)	Sign size shall be minimum 50 wide by 40 mgm,		
23		(3)	Lettering: "YOUR SPEED" shall be printed in two lines using		
24			um 6" high letters;		
25			,		
26		(4)	Sign material shall be .09" aluminum;		
27					
28		(5)	Enclosure shall be made of .09" aluminum. Outer surfaces		
29		of end	losure shall be coated with UV resistant coating;		
30		(C)	Display window shall be used of shatter venistant		
31 32		(6)	Display window shall be made of shatter resistant arbonate;		
33		polyce	nbonate,		
34		(7)	Housing shall be provided with tamper proof fasteners;		
35		(-)	, and the second		
36		(8)	Housing shall be weather proof to NEMA 3R specifications		
37			or better;		
38					
39		(9)	Housing shall be of non-sealed, ventilated type to prevent		
10			accumulation of moisture;		
11	/B\	Diesi			
12 13	(B)	Displa	ay.		
13 14		(1)	Speed display shall consist of either a full-matrix or 2 seven-		
1 4 15			ent solid-state LED numeric displays;		
16	•	9"			

48		(2)	Num	eric characters shall be 18" in height;
49				
50		(3)		numeric display shall consist of discrete LEDs which are
51			•	aimed to provide even light distribution within the
52		viewi	ng are	a;
53				
54		(4)	_	t intensity shall adjust automatically to provide optimum
55		view	ability	under all ambient light conditions;
56				
57		(5)		eric speed display portion of sign shall be designed to
58				acting the attention of motorists away from the road, by
59		•		of viewing from acute angles outside the motorist's
60				vard field of view. Viewable area shall enclose an area
61		up to	a max	kimum included angle of 30 degrees from the roadside.
62				
63		(6)	The	display shall operate in two modes:
64				
65			(a)	Steady numeric character and;
66			40.5	
67			(b)	Flashing speed violator alert;
68		/BW\		1.ED 1/2)
69		(7)	The	LED display panel shall have a ten (10) year warranty;
70		(0)	A 11	the an arrangement of the library of the company of the
71		(8)	All o	ther components shall have a two (2) year warranty;
72	· (C)	Cala	. В	·
73	(C)	Solai	r Pow	er.
74		(4)	Cala	a newsred signs shall be senable of fully sutenemous
75		(1)		r powered signs shall be capable of fully autonomous
76		oper	ration a	24 hours per day, 365 days per year;
77		(2)	Colo	r Danala shall be 12 walt industry standard items:
78		(2)	Sola	r Panels shall be 12 volt industry standard items;
79		(2)	Dott	ery shall be solar industry standard 12 volt deep cycle
80		(3)		Battery capacity shall be at least 20 times the normal
81				nightly capacity drain;
82		anuci	ipateu	riigiitiy capacity urairi,
83		(4)	Dotte	on, housing assembly shall be weather proof and be
84		(4)		ery housing assembly shall be weather proof and be om water intrusion;
85		prote	ctea n	om water mirusion,
86		(5)	Chai	rging Control System shall be a solar industry standard
87				mperature compensating charging voltage;
88		uem.	willi le	inperature compensating charging voltage,
89	(D)	Cabi	nat	
90	(U)	Çabi:	11 6 L.	
91		(4)	The	cabinet shell shall be powder coat painted;
92 -		(1)	1116	capitics stiet stati be powder coat palitied,

93

94 95		(2)	The cabinet shall be vandal and tamper resistant (this included assembly hardware);
93 96			moluded assembly hardware),
90 97		(3)	The cabinet shall house the display, radar gun (K-band one-
98		(5)	way, approach only) power supply and controller;
99			way, approach only) power supply and controller,
100	(E)	Conti	roller.
100	(-)	COILL	Oliet.
102		(1)	The controller shall be capable of taking radar generated
102		• •	I input and displaying it on the sign;
103		оросс	input and displaying it of the sign,
105		(2)	The controller shall have a lockable, vandal resistant switch
105			ow for control "on"/"off' toggle control of the sign at the sign
107		location	
108		loodii	511,
109	(F)	Manu	facturer to provide the following:
110	(- /	mana	nastater to provide the following.
111		(1)	With the bid, the manufacturer shall supply a certificate of
112			rmance to the specification standards outlined in these
113			ications.
114			
115		(2)	The manufacturer shall provide a minimum of two (2) hours
116			ng as directed by the Engineer to the HDOT Highways
117			on Hawaii District personnel, Included but not limited to
118			g films, product information, material application, equipment
119			tion, wiring diagram, and operation manual(s).
120		•	
121		(3)	The manufacturer shall have an "in state' representative that
122		can p	rovide post construction maintenance services to the State, if
123		requir	ed.
124			
125	695.03 Me	ethod o	of Measurement. The Engineer will not measure the driver
126	feedback spe	ed sig	n for payment.
127			
128			Payment. The Engineer will pay for the accepted driver
129	feedback spe	eed sig	ns at the contract lump sum price, complete in place.
130			
131			cludes full compensation for furnishing and installing driver
132			igns; furnishing the warranty; excavating and backfilling;
133			ling mounting pole and foundation which can accommodate a
134	KZ-1 speed-	ıımıt si	gn; mounting assembly; wiring; solar power system; battery
135			deep cycle rated solar battery; cabinet; controller; radar
136			irtenances necessary for operation; testing; training; and
137	Turnishing ma	aterials	, equipment, tools, labor and other incidentals necessary to

138

complete the work.

139		
140		•
141	The Engineer will make payment under:	
142		
143	Pay Item	Pay Unit
144		
145	Driver Feedback Speed Sign	Lump Sum
146		
147	The Engineer will pay for the R2-1 speed-limit sign in	
148	under Section 631 – Traffic Control Regulatory, Warning	, and Miscellaneous
149	Signs."	
150		
151		
152	•	
153	END OF SECTION 695	
154		
155		
156		
157		

	PROPOSAL SCHEDULE	DULE		AND	
ITEM NO.	ITEM	APPROX. QUANTITY	Ę	UNIT PRICE	AMOUNT
209.0100	Installation, Maintenance, Monitoring, and Removal of BMP	L.S.	L.S.	L.S.	\$
209.0200	Additional Water Pollution, Dust, and Erosion Control	F.A.	F.A.	F.A.	\$ 10,000.00
0008.3000	Guardrail Type 3 - Single with 6-Foot Steel Post	L.S.	L.S.	L.S.	\$
606.7100	Terminal Section Fleat-350	Ľ.S.	L.S.	L.S.	\$
606.7200	Terminal Section Type-G Modified	Ľ.S.	L.S.	S	\$
615.0110	Double 10-Inch Milled Rumble Strip, Centerline	Ľ.S.	L.S.	Ľ.S.	\$
623.0100	Flasher (Yellow LED) Assembly (One-Way, 12-Inch Mounted on Utility Pole)	8	Each	₩	φ
629.1011	Double 4-Inch Pavement Striping (Tape, Type I or Thermoplastic Extrusion)	ĽS.	L.S.	L.S.	\$
629.1013	4-Inch Pavement Striping (Tape, Type I or Thermoplastic Extrusion)	L.S.	L.S.	L.S.	₩.
629.1016	8-Inch Pavement Striping (Tape, Type I or Thermoplastic Extrusion)	L.S.	L.S.	L.S.	₩
629.1022	24-Inch Pavement Striping (Tape, Type III or Thermoplastic Extrusion)	L.S.	L.S.	L.S.	8

	PROPOSAL SCHEDULE	DULE			- Tringe
ITEM NO.	ITEM	APPROX. QUANTITY	E	UNIT PRICE	AMOUNT
629.1030	Crosswalk Marking (Tape, Type III or Thermoplastic Extrusion)	L.S.	L.S.	L.S.	8
629.1050	Pavement Word (Tape, Type III or Thermoplastic Extrusion)	L.S.	L.S.	L.S.	49
629.2010	Type "A" Pavement Markers	L.S.	L.S.	L.S.	\$
629.2020	Type "C" Pavement Markers	L.S.	L.S.	L.S.	\$
629.2040	Type "D" Pavement Markers	L.S.	L.S.	L.S.	\$
629.2070	Type "H" Pavement Markers	L.S.	L.S.	L.S.	8
629.2080	Type "J" Pavement Markers	ĽS.	L.S.	L.S.	\$
630.0200	New Destination Sign (Ground Mounted) with Post(s)	L.S.	L.S.	L.S.	\$
631.5001	Warning Sign (10 Square Feet or Less)	L.S.	L.S.	L.S.	\$
631.5101	Warning Sign (10 Square Feet or Less) with Post(s)	L.S.	L.S.	S.	\$
631.5301	Warning Sign (Greater than 10 Square Feet) with Post(s)	ĽS.	L.S.	L.S.	€
631.5400	Street Name Sign	L.S.	L.S.	L.S.	\$

	PROPOSAL SCHEDULE	DULE		- And and - Andrewstering - Andrews	Name and the contract of the c
ITEM NO.	ITEM	APPROX. QUANTITY	Ę	UNIT PRICE	AMOUNT
632.0100	Reflector Marker (RM-5, White) Mounted on Existing Guardrail	L.S.	L.S.	L.S.	\$
645.1000	Traffic Control	L.S.	L.S.	L.S.	<u></u>
645.2000	Additional Police Officers And/or Additional Control Device	F.A.	F.A.	F.A.	\$ 10,000.00
648.0100	Field-Posted Drawings	Ľ.S.	L.S.	s. Si	\$
651.0100	Delineation Curb System	L.S.	L.S.	Ľ.S.	€
695.0100	Driver Feedback Speed Sign	S. S.	L.S.	Ľ.S.	6
699.1000	Mobilization (Not to Exceed 10 Percent of the Sum of All Items Excluding the Bid Price of this Item, and Force Account Items)	i. S	Ľ.	Ġ Ŀ	\$
NOTE: Bido	Sum of All Items	Failure to do so may be grounds for rejection of bid.	ounds for re	or rejection of bid.	₩ 1