STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ADDENDUM NO. 1

FOR

Maunaloa Highway Resurfacing
Vicinity of Keonelele Avenue to Mahana

PROJECT NO. 460A-01-11M

DISTRICT OF Molokai

ISLAND OF Molokai

FY 2011

Amend the bid documents as follows:

A. PROPOSAL SCHEDULE

1. Replace pages P-10 and P-11 dated 8/3/2010 with the attached pages P-10 and P-11 dated 11/23/2010

B. SPECIAL PROVISIONS

1. Table of Contents
   (a) Replace page -1- dated 1/02/09 with attached page -1- dated 11/23/10

2. Replace page 408-1a dated 04/06/10 with attached pages 408-1a thru 408-2a dated 11/23/10

3. Replace pages 629-1a dated 3/30/06 with attached pages 629-1a thru 629-3a dated 11/23/10

C. PLANS

1. Add plan sheet No. ADD. 11S-1

2. Replace plan sheet No.7 with the attached plan sheet No. ADD.7 and replace plan sheet No. 16 with the attached plan sheet No. ADD. 16

D. PRE-BID MEETING

1. Sign-in sheet (attached)

2. Pre-bid Meeting minutes (attached)

Please acknowledge receipt of this Addendum No.1 by recording the date of its receipt in the space provided on Page P-4 of the Proposal.

MICHAEL D. FORMBY
Interim Director of Transportation

TABLE OF CONTENTS

PROPOSAL SCHEDULE

ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
209.1000	Installation, Maintenance, Monitoring and Removal of BMP	L.S.	L.S.	L.S.	$
209.2000	Additional Water Pollution, Dust, and Erosion Control	F.A.	F.A.	F.A.	$ 10,000.00
401.0400	Hot Mix Asphalt (HMA) Pavement, Mix No. IV	4,000	Ton	$	$
408.0100	Crack Seal	F.A.	F.A.	F.A.	$ 150,000.00
415.0100	Cold Planing	L.S.	L.S.	L.S.	$
603.1900	Clean Existing Culverts	F.A.	F.A.	F.A.	$ 30,000.00
606.0500	Terminal Section, Type FLEAT 350	L.S.	L.S.	L.S.	$
606.0600	Guardrail, Strong Post W-Beam with Post	L.S.	L.S.	L.S.	$
606.0700	Reset Guardrail	L.S.	L.S.	L.S.	$
613.0100	Adjusting Centerline and Reference Survey Monuments	9	Each	$	$
615.0100	Centerline Milled Rumble Strips	L.S.	L.S.	L.S.	$
615.0200	Shoulder Milled Rumble Strips	L.S.	L.S.	L.S.	$
615.0300	Edge Line Milled Rumble Strips	L.S.	L.S.	L.S.	$

PROPOSAL SCHEDULE

ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
629.1009	4 - Inch Pavement Striping (Tape, Type II or Thermoplastic Hot Spray) White	L.S.	L.S.	L.S.	$ _____
629.1010	4 - Inch Pavement Striping (Tape, Type I or Thermoplastic Hot Spray) Yellow	L.S.	L.S.	L.S.	$ _____
629.1012	12 - Inch Pavement Striping (Tape, Type II or Thermoplastic Hot Spray) White	L.S.	L.S.	L.S.	$ _____
629.1013	Double 4 - Inch Pavement Striping (Tape, Type I or Thermo-plastic Hot Spray)	L.S.	L.S.	L.S.	$ _____
629.2030	Type "C" Pavement Marker	L.S.	L.S.	L.S.	$ _____
629.2040	Type "D" Pavement Marker	L.S.	L.S.	L.S.	$ _____
629.2060	Type "H" Pavement Marker	L.S.	L.S.	L.S.	$ _____
629.2070	Type "J" Pavement Marker	L.S.	L.S.	L.S.	$ _____
630.0300	Type "A" Route Marker Assembly With Post	L.S.	L.S.	L.S.	$ _____
631.3100	Regulatory Sign (10 Sq. Ft. or Less) With Post	L.S.	L.S.	L.S.	$ _____
632.4000	Reflector Marker (Rm-3) Yellow With Steel Post	L.S.	L.S.	L.S.	$ _____

"SECTION 408 – CRACK SEAL

Make this section a part of the Standard Specifications:

408.01 Description. This section describes furnishing and applying crack seal on an existing asphalt pavement.

408.02 Materials.

Crack Seal AASHTO M 324-08 / ASTM D 6690-06a

Crack seal shall be hot applied and meet the requirements of AASHTO M324-08 / ASTM D6690-06a. Submit crack seal product information and test data for approval.

408.03 Construction.

(A) Weather Limitations. Do not apply crack seal if any moisture is on the pavement or in the cracks.

(B) Surface Preparation. Remove all vegetation, loose material and debris from the cracks. Clean cracks with compressed air. Hot air blast cracks immediately prior to application of crack seal.

(C) Routing. For cracks and joints 3/8-inch to 3/4-inch wide route to a width and depth of 3/4-inch prior to crack sealing.

(D) Melters. Use an indirectly heated double boiler melter with agitation. The melter heating system shall be thermostatically controlled and calibrated. All equipment shall be in good working order and functioning properly.

(E) Application. Seal cracks and joints less than 3/8-inch with approved hot-applied crack seal. For cracks and joints 3/8-inch to 3/4-inch wide route to a width and depth of 3/4-inch and fill with an approved hot-applied crack seal.

408.04 Measurement. The Engineer will measure crack sealing of existing pavement within the project limits on a force account basis in accordance with Subsection 109.06 – Force Account Provisions and Compensation and as ordered by the Engineer.

408.05 Payment. The Engineer will pay for the accepted pay item listed below at the contract price per pay unit. Payment will be full compensation for the work prescribed in this section, by the Engineer, and the contract documents. contract unit price, as shown in the proposal schedule. Payment will be full compensation for the work prescribed in this section and the contract documents.

The Engineer will pay for the following pay item when included in the proposal schedule:

Pay Item	Pay Unit
Crack Sealing of Existing Pavement	Force Account"

An estimated amount for the force account may be allocated in the proposal schedule under 'Crack Sealing of Existing Pavement' but the actual amount to be paid will be will be the sum shown on the accepted force account records, whether this sum be more or less than the estimated amount allocated in the proposal schedule.

END OF SECTION 408

SECTION 629 - PAVEMENT MARKINGS

Make the following amendments to said Section:

(I) Amend **Subsection 629.03(B) – Temporary Pavement Markings** by revising the third paragraph from line 62 to 63 to read:

"Maintain and replace temporary pavement markings, flexible delineators, and barricades. "

(II) Amend **Table 629.03 – 1 – Temporary Pavement Markings** to read as follows:

"TABLE 629.03-1 TEMPORARY PAVEMENT MARKINGS	
TYPE	**PAVEMENT MARKINGS**
Passing Permitted - Both Sides	Single 4-inch yellow stripe 5 feet in length spaced 20 feet on center with Type D markers spaced 40 feet on center and located on center of 5-foot length of stripe.
Passing Prohibited - Both Sides	Double solid 4-inch yellow stripes with Type D markers placed 20 feet on center on one of 4-inch yellow stripes selected by the Engineer.
Passing Permitted - One Side Only	Single continuous 4-inch yellow stripe with Type D markers placed on stripe 20 feet on center on no-passing side and single 4-inch yellow stripes 5 feet in length spaced 20 feet on center on passing side.
Lane Lines - Lane Changing Permitted	Single 4-inch yellow or white stripe 5 feet in length spaced 20 feet on center with Type C or Type D markers spaced 40 feet on center.
Lane Lines - Lane Changing Prohibited	Double solid 4-inch white stripes with Type C markers placed 20 feet on center on one of the 4-inch white stripes selected by the Engineer.
Crosswalk	Two 12-inch white transverse lines spaced 8 feet on center or as ordered by the Engineer.
Stop Line	Single 12-inch white transverse line.
Note: Paint may be used for temporary markings in areas where final paving is not complete."	

(III) **Amend Subsection 629.03(C) – Permanent Pavement Markings** by adding the following after line 267:

"**(5) Thermoplastic Hot Spray Pavement Marking.**

(a) Equipment. Use equipment constructed for preparation and application of thermoplastic hot spray pavement marking

Equipment shall provide continuous mixing and agitation of material. Conveying parts of equipment shall be constructed to prevent accumulation and clogging.

Use applicator capable of containing minimum of 125 pounds of molten material.

Provide kettle for melting and heating composition. Equip kettle with automatic thermostat control devise so that heating can be done by controlled heat transfer liquid rather than direct flame.

Equip and arrange applicator and kettle in accordance with National Fire Underwriters requirements.

Mixing and conveying parts, including the spray gun, shall maintain material at molten temperature.

Apply beads to entire surface of completed stripe by automatic bead dispenser attached to hot spray applicator.

Equip bead dispenser with automatic cutoff control synchronized with cutoff of thermoplastic material.

Use equipment that provides for varying spray widths to produce varying widths of traffic markings.

Use mobile and maneuverable applicator that is capable of following straight lines and making curves in true arcs.

(b) Application. Clean off dirt, debris, blaze, paint, tape, and grease. Apply thermoplastic hot spray pavement marking only when pavement surface is dry.

Use equipment that can apply material in variable widths from 2 inches to 12 inches. Apply material for full width of stripe in one application or pass.

On concrete pavements, on HMA pavements more than seven days old, and on HMA pavements paved within seven days containing

less than 6 percent bituminous asphalt, pre-stripe application area with binder material, primer, or prime seal coat recommended by pavement marker manufacturer.

Line thickness as viewed from lateral cross section, shall measure not less than 3/32 inch at edges, and not less than 1/8 inch in center.

Where required by the contract documents to apply new markings over existing markings, bond new line over old line so that no splitting or separation takes place during its useful life.

Provide finished lines with well-defined edges, free of waviness."

(IV) Amend Subsection 629.05 – Payment by adding the following pay item:

"_____-Inch Pavement Striping (Thermoplastic Hot Spray) Lump Sum"

END OF SECTION 629

Pre-Bid Meeting Minutes

Project: Maunaloa Highway Resurfacing, Vicinity of Keonelele Ave. to Mahana

Project No.: 460A-01-11M

1. Pre-bid meeting was held on November 23, 2010 at 9: A.M at the Maui District Conference Room at 650 Palapala Drive, Kahului. The participants were: Norman Shino, of Maui Paving LLC, Trent Caban of Apply-a-line, Ferdinand Cajigal and Crisanto Ragasa of State Highways.

2. Scope of project was discussed and then opened floor for questions.

3. Plan Sheet 16 (Sta. 312+ 50 to Sta. 314+40), the contractor suggesting to install Type "Fleat 360" end terminal instead of Type "A" since the field conditions is not advisable to install Type "A".

   Response: Demolish the existing terminals, extend the guardrails and install 2 (each) Type "Fleat 360". Addendum will be prepared to reflect these changes.

4. Contractor requested for Reflector Markers, RM-5 details and installation information and also requested if plastic could be used.

   Response: RM-5 detail and installation information will be incorporated in the project's addendum. In addition, State doesn't allow the use of plastic RM-5. Material shall be galvanized steel and have a minimum thickness of1/8 inch.

5. Who is responsible for clearing and grubbing the vegetation and other materials under the guardrail? Who is responsible for grinding or removing the existing thermoplastic striping prior to paving work?

   Response: The contractor is responsible for clearing under and behind existing guardrails; true to grade and accepted by the engineer before paving. Contractor is also reminded that intent is to pave existing surface between the edge of shoulder and top of the embankment on areas where guardrails occur. Said surface area must be cleared and grubbed of vegetation and organic matters, shaped, graded and compacted prior to installation of asphaltic concrete.

6. The contractor's estimated quantity of crack sealing is significantly different than the proposal and recommended changing it from LS to FA.

   Response: Addendum will be processed to changed unit from L.S. to Force Account.

7. Trent Caban from Apply-A-Line pointed out some discrepancies between plans and special provisions regarding the use of Thermoplastic Hot Spray and Thermoplastic Extrusion. The inclusion of edge line and centerline rumble strips requires the use of Thermoplastic Hot Spray. Proposal Schedule called out Thermoplastic Extrusion.

   Response: Addendum will be processed to address discrepancies.

8. Contractor was reminded that construction signs and work zone construction signs shall be new, especially those signs that will be paid for. Installation of all highway signs shall conform to the standard plans and details.

9. Meeting was adjourned at 10:15 A.M.

Submitted by: _____
Crisanto Ragasa, CE III
Design Engineer

SIGN IN SHEET – PRE-BID MEETING

November 23, 2010, @9:00 A.M.
MAUI DISTRICT OFFICE

Maunaloa Highway Resurfacing
Vicinity of Keonelele Avenue to Mahana
Project No. 460A-01-11M

NAME	COMPANY	PH. NO./FAX	E-MAIL
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2. Ferdinand Cajigal	DOT	873-3553/873-3544	ferdinand.cajigal@hawaii.gov
3. Trent Cabar	A-A-L	841-0990 / 841-1006	trent@applyaline.com
4. Norman Shinno	Mp.	877-2755 / 877-0438	nshinno@gracepacificcorp.com
5.			
6.			