STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ADDENDUM NO. 1

FOR

Haleakala Highway Resurfacing,
Vicinity of Pukalani Junction to Five Trees

PROJECT NO. 37C-01-13M

DISTRICT OF MAKAWAO

ISLAND OF MAUI

FY 2013

Amend the bid documents as follows:

A. SPECIAL PROVISION

1. Replace Section 401 - Hot Mix Asphalt (HMA) Pavement dated 01/03/12 with the attached Section 401 dated r06/10/13

B. PROPOSAL

1. Replace proposal schedule dated 06/01/13 with the attached Proposal schedule dated r6/10/13

C. PRE-BID MEETING

1. Sign-in sheet (attached)
2. Meeting Minutes (attached)
3. Questions & Answers / Clarifications (attached)

GLENN M. OKIMOTO, Ph.D
Director of Transportation

## SECTION 401 – HOT MIX ASPHALT (HMA) PAVEMENT

Make the following amendments to said Sections:

**(I)** Amend **Section 401.02 Materials**, by adding the following after line 14:

"Warm Mix Asphalt Additive 702.06"

**(II)** Amend **Section 401.02(A) General**, by adding the following paragraph after line 24:

"The manufacture of HMA may include warm mix asphalt (WMA) processes in accordance with these specifications. WMA processes include combinations of organic additives, chemical additives, and foaming."

**(III)** Amend **Section 401.02(A) General**, by replacing lines 36 - 37 to read as follows:

"In surface and binder courses, aggregate for HMA may include RAP quantities up to 20 percent of total mix weight."

**(IV)** Amend **Section 401.02(C) Submittals**, by adding the following paragraph after line 89:

"The Contractor may use warm mix asphalt (WMA) processes in the production of HMA. The Contractor shall submit to the Engineer for approval, the proposed process and how it will be used in the manufacture of HMA. The process submittal shall include the temperature range of the WMA."

**(V)** Amend **Section 401.03(B)(3) Asphalt Pavers**, from line 200 to include the following:

"**(h)** Equipped with a mean of preventing the segregation of the coarse aggregate particles from the remainder of the bituminous plant mix when that mix is carried from the paver hopper back to the paver augers. The means and methods used shall be approved by the paver manufacturer and may consist of chain curtains, deflector plates, or other such devices and any combination of these.

The following specific requirements shall apply to the identified bituminous pavers:

(1) Blaw-Knox bituminous pavers shall be equipped with the Blaw-Knox Materials Management Kit (MMK).

(2) Cedarapids bituminous pavers shall be those that were manufactured in 1989 or later.

(3) Barber-Green/Caterpillar bituminous pavers shall be equipped with deflector plates as identified in the December 2000 Service Magazine entitled "New Asphalt Deflector Kit {6630, 6631, 6640}".

Prior to the start of using the paver for placing plant mix, the Contractor shall submit for approval a full description in writing of the means and methodologies that will be used to prevent bituminous paver segregation. Use of the paver shall not commence prior to receiving approval from the Engineer.

The Contractor shall supply a Certificate of Compliance that verifies that the approved means and methods used to prevent bituminous paver segregation have been implemented on all pavers used on the project and is working in accordance with the manufacturer's requirements."

(VI) Amend **Section 401.03(F)(1) HMA Pavement Courses One and a Half Inches Thick Or Greater**, from lines 499 to 505 to read as follows:

"(1) **HMA Pavement Courses One and a Half Inches Thick Or Greater.** Where HMA pavement compacted thickness indicated in the contract documents is 1-1/2 inches or greater, compact to not less than 92.0 percent nor greater than 97.0 percent of the maximum specific gravity determined in accordance with AASHTO T 209, modified by deletion of Supplemental Procedure for Mixtures Containing Porous Aggregate."

(VII) Amend **Section 401.03(F)(3) HMA Pavement Courses One and a Half Inches Thick or Greater In Special Areas Not Designated For Vehicular Traffic**, from lines 530 to 538 to read as follows:

"(3) **HMA Pavement Courses One and a Half Inches Thick or Greater In Special Areas Not Designated For Vehicular Traffic.** For areas such as bikeways that are not part of roadway and other

areas not subjected to vehicular traffic, compact to not less that 90.0 percent of maximum specific gravity determined in accordance with AASHTO T 209, modified by deletion of Supplemental Procedure for Mixtures Containing Porous Aggregate. Increase asphalt content by at least 0.5 percent above that used for HMA pavements designed for vehicular traffic."

**(VIII)** Amend **Section 401.04 Measurement**, from lines 597 to 603 to read as follows:

"**401.04 Measurement.**

**(A)** Asphalt concrete pavement will be paid on a lump sum basis. Measurement for payment will not apply.

**(B)** The Engineer will measure asphalt concrete pavement per ton in accordance with the contract documents.

**(C)** The Engineer will measure leveling course per ton in accordance with the contract documents."**01.04**

**(IX)** Amend **Section 401.05 Payment**, from lines 605 to 635, to read as follows:

"**401.05 Payment.** The Engineer will pay for the accepted pay items listed below at the contract price per pay unit, 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 each of the following pay items when included in the proposal schedule:

| **Pay Item** | | **Pay Unit** |
|---|---|---|
| **(A)** | HMA Pavement, Mix No. IV | Ton |
| **(B)** | HMA Pavement, Mix No. IV at Guardrail Under, Behind Guard and Beyond End Terminals. | Ton |

**(1)** 80% of the contract unit price upon completion of submitting a job-mix formula acceptable to the Engineer; preparing the surface, spreading, and finishing the mixture; and compacting the mixture;

(2) 20% of the contract unit price upon completion of cutting samples from the compacted pavement for testing; placing and compacting the sampled area with new material conforming to the surrounding area; protecting the pavement; and final analysis.

(C) Leveling Course Ton

(1) 80% of the contract unit price upon completion of submitting a job-mix formula acceptable to the Engineer; preparing the surface, spreading, and finishing the mixture; and compacting the mixture;

(2) 20% of the contract unit price upon completion of cutting samples from the compacted pavement for testing; placing and compacting the sampled area with new material conforming to the surrounding area; protecting the pavement; and final analysis.

The Engineer will pay for cold planing in accordance with and under Section 415 – Cold Planing of Existing Pavement.

The Engineer will pay for adjusting existing frames and covers and valve boxes in accordance with and under Section 604 – Manholes, Inlets and Catch Basins and Section 626 – Manholes and Valve Boxes for Water and Sewer Systems."

**END OF SECTION 401**

## 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 |
| 312.0100 | Hot Mix Glassphalt Base Course | 2,000 | Ton | $ | $ |
| 401.0100 | Hot Mix Asphalt (HMA) Pavement, Mix No. IV | 8,000 | Ton | $ | $ |
| 401.0200 | Hot Mix Asphalt (HMA) Pavement, Mix No. IV at Guardrail Under, Behind Guardrail and Beyond End Terminals | 60 | Ton | $ | $ |
| 408.0100 | Crack Seal of Exisiting Pavement | F.A. | F.A. | $ | $ |
| 413.0100 | Longitudinal Joint Stabilizer | 43,500 | S.F. | $ | $ |
| 414.0100 | Excavation of Weakened Pavement Areas | 1,000 | C.Y. | $ | $ |
| 415.0100 | Cold Planing | 73,000 | Sq.Yd. | $ | $ |
| 603.1000 | Clean Exisiting Culverts | F.A. | F.A. | F.A. | $ 10,000.00 |
| 604.1200 | Adjusting Water Valve Cast Iron Frame and Cover | 1 | Each | $ | $ |
| 604.1300 | Adjusting Sewer Manhole Cast Iron Frame and Cover | 4 | Each | $ | $ |
| 614.0100 | Adjusting Centerline and Reference Survey Monuments | 16 | Each | $ | $ |
| 615.0100 | Center Line Milled Rumble Strip | L.S. | L.S. | L.S. | $ |
| 615.0200 | Shoulder Milled Rumble Strip | L.S. | L.S. | L.S. | $ |
| 615.0300 | Edge Line Milled Rumble Strip | L.S. | L.S. | L.S. | $ |
| 623.1000 | Traffic Signal System | L.S. | L.S. | L.S. | $ |

## PROPOSAL SCHEDULE

| ITEM NO. | ITEM | APPROX. QUANTITY | UNIT | UNIT PRICE | AMOUNT |
|---|---|---|---|---|---|
| 629.1010 | 4 - Inch Pavement Striping ( Tape, Type II or Thermoplastic Extrusion )( White) | L.S. | L.S. | L.S. | $ _____ |
| 629.1011 | 4 - Inch Pavement Striping ( Tape, Type II or Thermoplastic Extrusion )( Yellow) | L.S. | L.S. | L.S. | $ _____ |
| 629.1012 | 8 - Inch Pavement Striping ( Tape, Type II or Thermoplastic Extrusion ) (White) | L.S. | L.S. | L.S. | $ _____ |
| 629.1013 | 12 - Inch Pavement Striping ( Tape, Type II or Thermoplastic Extrusion ) (White and Yellow) | L.S. | L.S. | L.S. | $ _____ |
| 629.1014 | 4 - Inch Double Solid Yellow Pavement Striping ( Tape, Type II or Thermoplastic Extrusion ) | L.S. | L.S. | L.S. | $ _____ |
| 629.1015 | Yield Line Pavement Marking (Shark's Teeth Marking) (Thermoplastic Extrusion) | L.S. | L.S. | L.S. | $ _____ |
| 629.1016 | Crosswalk Marking (Tape, Type III or Thermoplastic Extrusion) | L.S. | L.S. | L.S. | $ _____ |
| 629.1017 | Pavement Arrow (Thermoplastic Extrusion) | L.S. | L.S. | L.S. | $ _____ |
| 629.1018 | Pavement Symbol (Tape, Type III or Thermoplastic Extrusion) | L.S. | L.S. | L.S. | $ _____ |
| 629.2010 | Type "A" Pavement Marker | L.S. | L.S. | L.S. | $ _____ |

## PROPOSAL SCHEDULE

| ITEM NO. | ITEM | APPROX. QUANTITY | UNIT | UNIT PRICE | AMOUNT |
|---|---|---|---|---|---|
| 629.2020 | Type "C" Pavement Marker | L.S. | L.S. | L.S. | $ _____ |
| 629.2030 | Type "D" Pavement Marker | L.S. | L.S. | L.S. | $ _____ |
| 629.2040 | Type "H" Pavement Marker | L.S. | L.S. | L.S. | $ _____ |
| 629.2050 | Type "F" Pavement Marker | L.S. | L.S. | L.S. | $ _____ |
| 630.0100 | Type "A" Route Marker Assembly With Post | L.S. | L.S. | L.S. | $ _____ |
| 630.0200 | Type "B" Route Marker Assembly With Post | L.S. | L.S. | L.S. | $ _____ |
| 630.0300 | Panel for Destination Sign | 73.50 | Sq. Ft. | $ _____ | $ _____ |
| 630.0400 | 4.00 lbs./ft. Flanged Channel Post for Destination Sign | L.S. | L.S. | L.S. | $ _____ |
| 631.1000 | Construction sign with Post | L.S. | L.S. | L.S. | $ _____ |
| 631.2000 | Regulatory Sign ( 10 Sq. Ft. or Less) With Steel Post | L.S. | L.S. | L.S. | $ _____ |
| 631.3000 | Warning Sign ( 10 Sq. Ft. or Less) With Steel Post | L.S. | L.S. | L.S. | $ _____ |
| 632.4000 | Reflector Marker (Rm-3) Yellow With Flexible Post | L.S. | L.S. | L.S. | $ _____ |
| 632.4100 | Reflector Marker (Rm-3) Yellow Without Post | L.S. | L.S. | L.S. | $ _____ |
| 632.4200 | Reflector Marker (Rm-5) on Guardrail | L.S. | L.S. | L.S. | $ _____ |

## PROPOSAL SCHEDULE

| ITEM NO. | ITEM | APPROX. QUANTITY | UNIT | UNIT PRICE | AMOUNT |
|---|---|---|---|---|---|
| 632.7600 | Mile Post Marker And Supplemental Route Number Plate (Bi - Directional) With Post | L.S. | L.S. | L.S. | $ _____ |
| 643.0100 | Maintenance of Existing Landscape Areas | F.A. | F.A. | F.A. | $ 5,000.00 |
| 645.0100 | Traffic Control | L.S. | L.S. | L.S. | $ _____ |
| 645.0200 | Additional Police Officers, Additional Traffic Control Devices, And Advertisement | F.A. | F.A. | F.A. | $ 15,000.00 |
| 648.0100 | Field-Posted Drawings | L.S. | L.S. | L.S. | $ _____ |
| 696.1000 | Field Office Trailer ( Not to Exceed $ 32,000.00) | L.S. | L.S. | L.S. | $ _____ |
| 696.2000 | Maintenance of Trailers | F.A. | F.A. | F.A. | $ 10,000.00 |
| 699.1000 | Mobilization (Not to exceed 6% of the Sum of all items excluding the bid price of this item.) | L.S. | L.S. | L.S. | $ _____ |

Sum of All Items $ _____

NOTE: Bidders must complete all unit prices and amounts. Failure to do so may be grounds for rejection of bid.

SIGN IN SHEET – PRE-BID MEETING

June 10, 2013, @ 10:00 A.M.
MAUI DISTRICT OFFICE

Haleakala Highway Resurfacing, Vicinity of Pukalani Junction to Five Trees
Project No. 37C-01-13M

| NAME | COMPANY | PH. NO./FAX | E-MAIL |
|---|---|---|---|
| 1. Christopher Della | DOT | 873-3535 / 873-3544 | christopher.p.della@hawaii.gov |
| 2. Ron Arroyan | MAUI PAVING | 877-2755 / 877-0438 | rarroyan@gracepacificcorp.com |
| 3. Jason Ames | GP CORP | 845-3991 ext 245 / 842-3267 | james@gracepacificcorp.com |

# Pre-Bid Meeting Minutes

Project: Haleakala Highway Resurfacing, Vicinity of Pukalani Junction to Five Trees

Project No.: 37C-01-13M

1. Pre-bid meeting was on June 10, 2013 at 10:00 A.M at the Maui District Conference Room at 650 Palapala Drive, Kahului. The participants were: Ron Arroyan of Maui Paving LLC & Christopher Della State Highways

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

3. Contractor requested to itemize Paving under the guardrail instead of being incidental to the project.

4. Meeting was adjourned at 10:30 A.M.

Respectfully Submitted,

Christopher P. Della
Design Engineer

# QUESTIONS & ANSWERS / CLARIFICATIONS

Project: Haleakala Highway Resurfacing, Vicinity of Pukalani Junction to Five Trees

Project No.: 37C-01-13M

1.) Questions: Would it be possible to separate the HMA road paving and the HMA Paving under/behind guardrail into separate bid items?

Response: Yes. Will separate the HMA road paving and the HMA paving under/behind guardrail into separate bid items via Addendum.