

DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

OFFICE ENGINEER

1727 30th Street MS-43

P.O. BOX 168041

SACRAMENTO, CA 95816-8041

FAX (916) 227-6214

www.dot.ca.gov/hq/esc/oe



*Serious Drought.
Help save water!*

January 4, 2016

11-Imp-86-43.1/67.8

11-2M6504

Project ID 1113000100

ACSTP-P086(074)E

Addendum No. 3

Dear Contractor:

This addendum is being issued to the contract for CONSTRUCTION ON STATE HIGHWAY IN IMPERIAL COUNTY NEAR SALTON CITY FROM 0.5 MILE SOUTH OF NORTH JUNCTION ROUTE 78 TO RIVERSIDE COUNTY LINE, to revise the *Notice to Bidders and Special Provisions*.

Submit bids for this work with the understanding and full consideration of this addendum. The revisions declared in this addendum are an essential part of the contract.

Bids for this work will be opened on Thursday, January 7, 2016.

In the Special Provisions, Section 37-2.05B, "BITUMINOUS SEALS," is replaced as attached.

In the Special Provisions, Section 39-1.03C(4), "HOT MIX ASPHALT," is added as attached.

To *Bid* book holders:

Inquiries or questions in regard to this addendum must be communicated as a bidder inquiry and must be made as noted in the *Notice to Bidders* section of the *Notice to Bidders and Special Provisions*.

Submit the *Bid* book as described in the *Electronic Bidding Guide* at the Bidders' Exchange website.

http://www.dot.ca.gov/hq/esc/oe/electronic_bidding/electronic_bidding.html

Inform subcontractors and suppliers as necessary.

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This addendum, EBS addendum file and attachments are available for the Contractors' download on the Web site:

http://www.dot.ca.gov/hq/esc/oe/project_ads_addenda/11/11-2M6504

If you are not a *Bid* book holder, but request a book to bid on this project, you must comply with the requirements of this letter before submitting your bid.

Sincerely,



LAURIE BERMAN
District Director

Attachments

Add to section 37-2.05B(2)(b) of the RSS for section 37-2:

Asphalt binder for asphalt rubber binder seal coat must be Grade PG 70-10.

Add to section 37-2.05B(2)(f) of the RSS for section 37-2:

Screenings for asphalt rubber seal coat must comply with the medium grading.

Add to section 37-2.05B(3)(b) of the RSS for section 37-2:

The variable spray rate bar consists of an 8-foot spreader bar manufactured by BearCat Manufacturing, Inc. as described in US Patent number 5,957,621.

You may obtain the bar from:

BearCat Manufacturing, Inc.
3650 Sabin Brown Road
Wickenburg, AZ 85390
Telephone (928) 684-7851
Fax (928) 684-3241

The quoted price includes the 8-foot spreader bar with two 3-foot wide wheel path bar segments, the computer rate application unit, and bar pump coverage. The price by the manufacturer, FOB Wickenburg, Arizona is \$65,000, not including applicable taxes.

You must bring your distributor unit to the facility for the installation.

The above price will be firm for orders placed on or before March 31, 2016, with an estimated installation time of 30 days from the date of the order.

Add to section 37-2.05B(3)(d) of the RSS for section 37-2:

Apply the asphalt rubber binder at a reduced rate in the wheel path of up to 0.15 gal/sq yd. The Engineer determines the exact rate. Verify the application rate in the wheel path and the non-wheel path daily, by the California Test 339M, modified as follows:

A. Scope

Modified California Test 339 describes the procedure for determining the transverse spread rate of a bituminous distributor in gallons per square yard.

B. Apparatus

1. Balance sensitive to 0.1 gram with a minimum capacity of $\pm 2,000$ grams.
2. Suitable weighing box with windshield or enclosed area for balance to ensure no impacts from wind conditions.
3. Balance table and/or work bench.

C. Materials

1. 8" x 12" Galvanized Sheet Metal Plates -28 gauge. Verify size of the metal plates used in calculations in Section F.
2. Polyester Filter Roll material.
3. Cementing material.
4. 10" x 13" min. - Manila Envelopes.
5. 30 pound Roofing Felt Paper.

Note:

The roofing felt paper is available at most home supply stores or roofing suppliers.

D. Preparation of the Test Plates

1. Cut the polyester material from the roll to an 8" x 12" size and cement to the 8" x 12" plate.
2. Number the bottom of each metal plate. One plate for each one (1) foot of roadway surface to be sprayed.
3. Number each manila envelope.
4. Weigh each test plate + polyester filter placed in each manila envelope.
5. Cut the roofing felt paper to a width of 18".

E. Sampling

1. Prior to the distributor approaching, place the roofing felt paper transversely across the pavement surface at the test location and secure with duct tape.
2. Place the metal plates with the 12" width, transversely across the pavement surface, centered on the roofing felt paper.
3. If desired, mark the test location outside the spray area for future reference.
4. After the distributor vehicle has passed, slide the roofing felt paper off the roadway with the test plates remaining in place, and let cool for a minimum of five minutes.
5. Remove each separate metal plate with the polyester material and binder and place in the properly numbered manila envelope. Care should be taken to ensure that each plate has no material loss.
6. Proceed to weighing area and weigh each of the test plates and the manila envelopes and record as the Gross Weight.
7. Determine the Net Weight of the binder.

F. Calculations

To determine the spread rate the following is required:

1. The Specific Gravity of the binder.
2. The field application temperature.

Calculate the spread rate as follows for each plate:

$$1. \text{ Sp.Gr.} \times 62.4 \text{ lbs/cf} \times \frac{1}{7.48 \text{ lbs/gal}} \times \text{ATF} = \text{_____ lbs/gal at } 60^{\circ}\text{F.}$$

Where:

Sp. Gr. – Binder Specific Gravity

lbs – pounds

cf – cubic feet

gal – gallon

ATF – Application Temperature Factor. Use Column A from Temperature Conversion Table in Section 93 of the Standard Specifications when the density at 60°F is greater than 60.3 lbs/cf (0.9963).

$$2. \text{_____ lbs/gal} \times 0.074 \text{ sq.yd}^{**} \times 454 \text{ grams/lbs} = \text{_____ grams} \times \text{sq.yd/gal}$$

Where:

** Test Plate 8" x 12" = 96 sq. in.

$$\frac{96 \text{ sq.in.}}{1,296 \text{ sq.in./sq.yd}} = 0.0741 \text{ sq.yd}$$

sq.yd – square yard

sq. in. – square inches

Verify plate dimensions and adjust accordingly.

$$3. \frac{\text{Net Weight of Binder grams}}{\#2 \text{ Above grams} \times \text{sq.yd/gal}} = \text{_____ gal/sq.yd (spread rate).}$$

4. Record the spread rate for each plate across the lane.

Replace the 1st paragraph of section 39-1.03C(4) of the RSS for section 39 with:

Section 39-1.03C(4) applies to existing asphalt concrete surfaces receiving an HMA overlay or areas receiving a seal coat if a bid item for prepaving inertial profiler is shown in the Bid Item List.