

DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

OFFICE ENGINEER

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*Serious Drought.
Help save water!*

August 24, 2016

06-Fre-198-35.3/35.6
06-0M2504
Project ID 0612000096
ACNHP-P198(070)E

Addendum No. 2

Dear Contractor:

This addendum is being issued to the contract for CONSTRUCTION ON STATE HIGHWAY IN FRESNO COUNTY NEAR HURON FROM 0.1 MILE WEST TO 0.1 MILE EAST OF CALIFORNIA AQUEDUCT BRIDGE to revise the project plans, and 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 Wednesday, August 31, 2016.

Project plan sheets 40A and 69A are added and attached for addition to the project plans.

In the *Notice to Bidders and Special Provisions*, in the "STANDARD PLANS LIST," the following Standard Plan is added as follows:

"RSP A85A."

In the *Notice to Bidders*, after the ninth paragraph the following is added:

"For the Federal training program, the number of trainees or apprentices is 1."

In the Special Provisions, Section 2 BIDDING, 2-1.06B Supplemental Project Information, is replaced as attached.

In the Special Provisions, Section 39-2, is replaced as attached.

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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.

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/06/06-0M2504

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,



SHARRI BENDER EHLERT
District Director
District 6 Central Region

Attachments

Add between the 1st and 2nd paragraphs of section 2-1.06B:

The Department makes the following supplemental project information available:

Supplemental Project Information

Means	Description
Included in the <i>Information Handout</i>	1- Bureau of Reclamation Temporary Construction Permit 2- Department of Water Resources Code of Safe practices 5.18 Procedure for Inflatable Boat Use 3- Water source information 4- Asbestos and Lead Containing Paint Survey Report 5- Manufacturer drawings for Alternative Crash Cushion
Available as specified in the <i>Standard Specifications</i>	1- Cross Sections (Additional) 2- Horizontal and Vertical Alignments (Additional) 3- Original Ground (Additional) 4- Bridge As-built drawings

Replace the paragraphs in section 39-2.01C(2) of the RSS for section 39 with:

The JMF must be based on the Superpave HMA mix design system as described in the MS-2 Asphalt Mix Design Methods by the Asphalt Institute.

For a Type A HMA mixture using RAP substitution greater than 15 percent of the aggregate blend, the asphalt binder grade from the HMA mixture must comply with the binder grade specified in section 39-2.02C. The HMA mixture binder grade must not be stiffer than the PG binder grade specified and must be determined by blending charts for high, intermediate, and low critical temperatures. Original binder requirements, ductility requirements, and footnote d in the table in the 1st paragraph in section 92-1.02B do not apply in the determination of the HMA mixture binder grade using blending charts.

Add to section 39-2.01C(3) of the RSS for section 39:

For RAP substitution greater than 15 percent of the aggregate blend, submit blending calculation sheets and blending charts for high, intermediate, and low critical temperatures. The blending calculation sheets and blending charts must be based on the MS-2 Asphalt Mix Design Methods by the Asphalt Institute. You may use critical temperatures of virgin binder or the maximum theoretical critical temperature of the PG grade of the virgin binder. Critical temperatures must be in whole degree. The calculation sheets must be sealed and signed by an engineer who is registered as a civil engineer in the State or by the AMRL-AASHTO-accredited laboratory manager responsible for the calculations and blending charts.

Add to the table in the 1st paragraph of section 39-2.01D(2)(b) of the RSS for section 39:

Coarse durability index	AASHTO T 210	1 per 3,000 tons or 1 per paving day, whichever is greater
Fine durability index	AASHTO T 210	1 per 3,000 tons or 1 per paving day, whichever is greater

Add between the heading and the 1st paragraph of section 39-2.01D(2)(c) of the RSS for section 39:

39-2.01D(2)(c)(i) General

Section 39-2.01D(2)(c) applies to Type A HMA mixtures using RAP substitution greater than 15 percent of the aggregate blend.

39-2.01D(2)(c)(ii) Reclaimed Asphalt Pavement Stockpiles

Add to section 39-2.01D(2)(c) of the RSS for section 39:

39-2.01D(2)(c)(iii) Virgin and Recovered Reclaimed Asphalt Pavement Binder

Perform solvent extraction of RAP binder under AASHTO T 164, Method A, and recovery under AASHTO R 59 or ASTM D1856. Test the quality characteristics of the recovered RAP binder under the test methods and frequencies shown in the following table:

Quality characteristic	Test method	Minimum testing frequency
Critical temperatures of RAP binder	AASHTO T 315 and AASHTO T 313	1 per project if RAP is not augmented or 1 per 500 tons of augmented RAP

If you use critical temperature of virgin binder in blending charts, test the quality characteristics of the virgin binder under the test methods and frequencies shown in the following table:

Quality characteristic	Test method	Minimum testing frequency
Critical temperatures of virgin binder	AASHTO T 315 and AASHTO T 313	1 per 5 paving days or 1 per project, whichever is greater

Determine the blended binder grade using blending charts under the MS-2 Asphalt Mix Design Methods by the Asphalt Institute each time the critical temperatures are determined.

Add to the table in item 1 in the list in the paragraph of section 39-2.01D(5) of the RSS for section 39:

Coarse durability index (D_c , min)	AASHTO T 210	65
Fine durability index (D_f , min)	AASHTO T 210	50

Replace "If RAP is used" in item 2 in the list of the paragraph of section 39-2.01D(5) of the RSS for section 39 with:

For RAP substitution greater than 15 percent of the aggregate blend

Replace the row for moisture susceptibility, dry strength, in the table in item 3 in the list of the paragraph of section 39-2.01D(5) of the RSS for section 39 with:

Moisture susceptibility (psi, dry strength)	AASHTO T 283	100–300
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Add to the list of the paragraph of section 39-2.01D(5) of the RSS for section 39 with:

- For RAP substitution greater than 15 percent of the aggregate blend, the asphalt binder grade must comply with the specified binder grade. A tolerance of +2 degrees C may be applied to the critical high and low temperatures of the blended binder. Original binder requirements, ductility requirements, and footnote d in the table in the 1st paragraph in section 92-1.02B do not apply in the determination of the PG binder grade using blending charts.

Replace the row for moisture susceptibility, dry strength, in the 1st paragraph of section 39-2.02B of the RSS for section 39 with:

Moisture susceptibility, dry strength (psi)	AASHTO T 283	100–300
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Replace the 3rd and 4th paragraphs in section 39-2.02B of the RSS for section 39 with:

For a Type A HMA mixture using RAP substitution greater than 15 percent of the aggregate blend, the mix design blended binder grade must comply with the specified binder grade. The mix design blended binder grade must be determined using blending charts as described in the MS-2 Asphalt Mix Design Methods by the Asphalt Institute. Original binder requirements, ductility requirements, and footnote d in the table in the 1st paragraph in section 92-1.02B do not apply in the determination of the HMA mixture binder grade using blending charts.

Replace "Reserved" in section 39-2.02C of the RSS for section 39 with:

The grade of asphalt binder for Type A HMA must be PG 64-10.

For Type A HMA using RAP substitution of greater than 15 percent of the aggregate blend, the HMA mixture binder grade must comply with the PG binder grade specified above.

For Type A HMA using RAP substitution of 15 percent or less of the aggregate blend, the grade of the virgin binder must comply with the PG binder grade specified above.

Add to the table in the 1st paragraph of section 39-2.02D(1) of the RSS for section 39:

Coarse durability index (D_c , min)	AASHTO T 210	65
Fine durability index (D_f , min).	AASHTO T 210	50

Replace the 2nd sentence of 2nd paragraph in section 39-2.02F of the RSS for section 39 with:

For RAP substitution of 15 percent or less, RAP must be within ± 3 of RAP percentage shown in your Contractor Job Mix Formula Proposal form without exceeding 15 percent. For RAP substitution of greater than 15 percent, RAP must be within ± 3 of RAP percentage shown in your Contractor Job Mix Formula Proposal form without exceeding 25 percent.