

**DEPARTMENT OF TRANSPORTATION**  
DIVISION OF ENGINEERING SERVICES  
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*Flex your power!*  
*Be energy efficient!*

September 16, 2009

10-Mer-99-25.4/27.8  
10-0K0204  
SARRA-P099(521)E

Addendum No. 4

Dear Contractor:

This addendum is being issued to the contract for CONSTRUCTION ON STATE HIGHWAY IN MERCED COUNTY IN AND NEAR MERCED FROM 0.1 KM NORTH OF V STREET UNDERCROSSING TO BLACK RASCAL CANAL BRIDGE.

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, September 23, 2009.

This addendum is being issued to revise the Project Plans, the Notice to Bidders and Special Provisions, and the Bid book.

Project Plan Sheets 13, 24, 206, 261, 262, 263, 274, 275, and 287 are revised. Copies of the revised sheets are attached for substitution for the like-numbered sheets.

In the Special Provisions, Section 5-1.11, "SUPPLEMENTAL PROJECT INFORMATION," is revised as attached.

In the Special Provisions, Section 5-1.145, "REMOVAL OF ASBESTOS CONTAINING MATIERIALS - BRIDGES AND NON-BUILDING STRUCTURES," is added as attached.

In the Special Provisions, Section 8-1.03, "STATE-FURNISHED MATERIALS," Item B in the second paragraph is deleted.

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In the Bid book, in the "Bid Item List," Items 135 and 136 are added and Items 132 and 134 are deleted as attached.

To Bid book holders:

Replace page 9 of the "Bid Item List" in the Bid book with the attached revised page 9 of the Bid Item List. The revised Bid Item List is to be used in the bid.

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.

Indicate receipt of this addendum by filling in the number of this addendum in the space provided on the signature page of the Bid book.

Submit bids in the Bid book you now possess. Holders who have already mailed their book will be contacted to arrange for the return of their book.

Inform subcontractors and suppliers as necessary.

This addendum and attachments is available for the Contractors' download on the Web site:

**[http://www.dot.ca.gov/hq/esc/oe/project\\_ads\\_addenda/10/10-0K0204](http://www.dot.ca.gov/hq/esc/oe/project_ads_addenda/10/10-0K0204)**

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,

**ORIGINAL SIGNED BY**

REBECCA D. HARNAGEL  
Chief, Office of Plans, Specifications & Estimates  
Office Engineer  
Division of Engineering Services

Attachments

The Department makes the following supplemental project information available:

**Supplemental Project Information**

Means	Description
Included in the Information Handout	<ol style="list-style-type: none"><li>1. Foundation Recommendations Report for West Merced OH, dated November 13, 2008</li><li>2. Geotechnical Design Report, dated October 23, 2007</li></ol>
Available for inspection, by appointment, at 611 San Juan Avenue, Stockton, CA 95203; telephone (209) 948-7849	<ol style="list-style-type: none"><li>1. Cross sections</li><li>2. Dust Control Plan</li><li>3. Aerial Lead Site Investigation Report, Dated December 2002</li><li>4. Site Investigation Report, Dated June 2003</li><li>5. Supplemental Asbestos Survey Report - West Merced Overhead, September 2009</li></ol>
Available as specified in the Standard Specifications	Bridge as-built drawings

## **10-1.145 REMOVAL OF ASBESTOS CONTAINING MATERIALS – BRIDGES AND NON-BUILDING STRUCTURES**

Asbestos containing materials (ACM), as defined in section 1529, "Asbestos," of the Construction Safety Orders, Title 8, of the California Code of Regulations [are/suspected] to be present in the structure proposed for demolition or renovation.

In compliance with Standard Specifications Section 7-1.01F, the Contractor must notify the San Joaquin Valley Unified Air Pollution Control District (SJVUAPCD) as required by the National Emission Standards for Hazardous Air Pollutants (NESHAP) 40 CFR Part 61, Subpart M, California Health and Safety Code section 39658(b)(1), and the California Air Resources Board regulations. Provide a copy of the notification form and attachments to the Engineer prior to submittal. Notification must take place a minimum of 10 working days prior to starting demolition or renovation activities. Notify other local permitting agencies and utility companies prior to demolition or alteration.

Friable ACM is defined under the Asbestos Hazard Emergency Response Act (AHERA) as "any material containing more than 1 percent (%) asbestos by area that hand pressure can crumble, pulverize or reduce to powder when dry". The term non-friable implies that the asbestos fibers are tightly bound into the matrix of the material and should not become an airborne hazard as long as the material remains intact and undamaged, and is not sawed, sanded, drilled or otherwise abraded during removal.

Codes, which govern removal and disposal of materials containing asbestos include, but are not limited to, the following:

1. California Health and Safety Code, Division 20, Chapter 6.5, Hazardous Waste Control.
2. California Code of Regulations, Title 8, General Industry Safety Order 5208 Asbestos.
3. California Code of Regulations, Title 8, Sections 1529 and 341
4. California Code of Regulations, Title 22, Division 4.5
5. Occupational Safety and Health Administration, Part 26 (amended), of Title 29 of the Code of Federal Regulations.
6. Code of Federal Regulations (CFR), Title 40, Part 61, subpart M.

### **ASBESTOS SURVEY**

As a result of inspection of West Merced Overhead (Br 39-131) and Bear Creek (Br 39-132), asbestos is suspected in Barrier Rail shims. -The report entitled "Supplemental Asbestos Survey Report - West Merced Overhead, September 2009." is available for inspection at the Department of Transportation, Construction Office, as specified in, "Supplemental Project Information," of these special provisions.

### **ASBESTOS SAMPLING AND ANALYSIS WORKPLAN**

At least fifteen (15) days prior to beginning any sampling for suspected ACM, submit a written, project specific Asbestos Sampling and Analysis Workplan that establishes the procedures used to comply with requirements for asbestos abatement, including sampling and testing of suspected ACM, containment, transportation and disposal of ACM. No sampling and analysis work will proceed until the plan is authorized by the Engineer. If the plan is unacceptable, it will be returned within ten (10) working days of the submittal to the Contractor for revision. The Engineer must have five (5) working days to review and authorize or reject the revised plan from the date the revised plan is received from the Contractor. The Contractor, must be a Certified Asbestos Consultant (CAC) and AHERA (Asbestos Hazard Emergency Response Act) - trained to perform an asbestos survey prior to any removal activity. The plan must be prepared, signed and stamped by a CAC.

ACM sampling methods shall meet USEPA, SW846, "Test Methods for Evaluating Solid Waste," Volume II: Field Manual, Physical/Chemical, Chapter Nine Section 9.1. Use a laboratory certified by the California Department of Public Health, Environmental Laboratory Accreditation Program for analysis of ACM samples. Samples shall be analyzed for asbestos according to Analytical Method 600/R-93-116 specified in 40 Code of Federal Regulations (CFR) Part 763 Subpart F, Appendix A (Polarized Light Microscopy).

A minimum of one sample shall be taken per suspected ACM location. For pipes and other linear components of suspected ACM, collect one sample per 5 feet of exposed material. Sample any exposed ACM on the existing structure. ACM encased in concrete will be sampled when exposed during demolition.

Transport samples under the chain of custody to the laboratory within 24 hours of collection. Run analytical laboratory tests on a 48-hour turn-around. Send by facsimile, or hand deliver to the Engineer, laboratory results as soon as they are available. Supply a summary report of sampling protocols, photographs of the structures and of the locations where samples were taken, chain of custody, analysis and laboratory data sheets, to the Engineer within 15 days of completion of sampling.

## **SUBMITTALS**

Submit a draft sampling and analysis report to the Engineer within 15 days of completion of sampling and analysis. The Engineer will review the survey report and provide comments to the Contractor within 7 working days. If, in the opinion of the Engineer, completion of work is delayed or interfered with by reason of the Engineer's delay in completing the review, the Contractor will be compensated for any resulting loss, and an extension of time will be granted in accordance with Section 8-1.07, "Right of Ways Delays" of the Standard Specifications. Make any requested edits and submit four copies of the final report to the Engineer within five (5) days.

Submit an Asbestos Compliance Plan (ACP). ACP must comply with section 7-1.01A, "Asbestos Compliance Plan," of the Standard Specifications.

## **ASBESTOS COMPLIANCE PLAN**

Prepare an Asbestos Compliance Plan (ACP) to prevent or minimize exposure to asbestos. Attention is directed to Title 8, California Code of Regulations, Construction Safety Orders, section 5192 (b) and section 1529, "Asbestos", Occupational Safety and Health Guidance Manual published by the National Institute of Occupational Safety and Health (NIOSH) and the USEPA for elements of the ACP. The ACP must contain as a minimum but not be limited to: identification of key personnel for the project, job hazard analysis for work assignments, summary of risk assessment, personal protective equipment, delineation of work zones on-site, decontamination procedures, general safe work practices, security measures, emergency response plans and worker training. The ACP must be authorized in writing by an industrial hygienist certified in the practice of industrial hygiene by the American Board of Industrial Hygiene before submission to the Engineer for review and acceptance. Submit the ACP to the Engineer at least 15 days prior to beginning work in areas containing or suspected to contain asbestos.

## **TRAINING**

Prior to performing work in areas containing or suspected to contain asbestos, personnel who have no prior training or are not current in their training status, including State personnel, must complete a safety training program provided by the Contractor, which meets the requirement of Title 8, California Code of Regulations, Section 1529. Provide a written certification of completion of safety training to the Engineer for trained personnel prior to performing work in areas containing or suspected to contain asbestos.

## **EQUIPMENT AND MEDICAL SURVEILLANCE**

Provide personnel protective equipment, training, and medical surveillance required by the Contractor's Asbestos Compliance Plan to State personnel. The number of State personnel will be 3.

## **REMOVAL**

Prepare a work plan for the removal, storage, transportation and disposal of ACM. Removal and management of ACM will be performed by a contractor registered pursuant to Section 6501.5 of the Labor Code and certified pursuant to Section 7058.6 of the Business and Professions Code. Asbestos removal must conform to Cal/OSHA requirements in Title 8 Sections 1529 and 341. For bridges built before 1980, where ACM is suspected, but cannot be sampled before demolition, a CAC must be present during demolition in case unforeseen ACM is encountered. Remove all friable material in a manner that conforms to OSHA work practice requirements. Remove and handle all non-friable ACM to prevent breakage. Non-friable ACM such as asbestos cement pipe must be disposed of to a landfill facility permitted to take ACM. The removal of ACM encased in concrete or other similar structural material is not required prior to demolition, but such material must be adequately wetted whenever exposed during demolition. Packaging, storage, transporting, and disposing of ACM, must conform to Title 22, Division 4.5, Chapters 11, 12 and 13 of the California Code of Regulations. No visible dust must be generated when handling, removing, transporting, and disposing of ACM.

Asbestos removal procedures include, but are not limited to:

1. Installing asbestos warning signs at perimeters of abatement work areas.
2. Wetting asbestos materials with sprayers.
3. Containing large volumes of asbestos materials in disposal bins for temporary storage until removed from the site.
4. Providing manifests for the Engineer to sign for disposal of friable ACM waste or a waste shipment record for disposal of non-friable ACM waste.
5. Providing transporters registered to transport hazardous waste in the State of California in accordance with the provisions of Chapter 6.5, Division 20 of the Health and Safety Code and Title 22 of the California Code of Regulations, Division 4.5.

6. Disposing of asbestos materials at a permitted disposal facility, which accepts such materials.
7. Working in accordance with Federal, State, and Local requirements for asbestos work.

Mark all vehicles used to transport ACM as specified below, or an equivalent warning:

**DANGER**  
**ASBESTOS**  
**CANCER AND LUNG DISEASE HAZARD**  
**AUTHORIZED PERSONNEL ONLY**

**Handling**

Comply with CCR Title 22, Division 4.5, Chapter 12, Article 3 requirements for the packaging and labeling of removed ACM, and place such removed material in approved plastic containers (double ply plastic bags) with caution labels affixed to bags. Such caution labels must have conspicuous, legible lettering, which spells out the following, or equivalent warning:

**DANGER**  
**CONTAINS ASBESTOS FIBERS**  
**AVOID CREATING DUST**  
**CANCER AND LUNG DISEASE HAZARD**

At the option of the Contractor, the removed materials containing asbestos may be placed directly into a covered roll off or drop box, which shall have the same caution label, affixed on all sides.

**Transporting**

Haulers of friable asbestos containing material will have current registration with the State Department of Toxic Substances Control (DTSC), and must have a U.S. Environmental Protection Agency Identification Number (U.S. EPA I.D. Number). A valid registration issued by DTSC is required for all vehicles used to transport hazardous waste material. Non-friable ACM is not hazardous waste and can be transported with a waste shipment record (WSR) or comparable shipping document.

**Disposal**

The Engineer will obtain the required EPA generator identification numbers, and will sign the hazardous waste manifests for disposal of friable asbestos containing material. The Contractor must dispose of friable and non-friable waste containing asbestos at a disposal facility permitted to accept such material and that meets all the requirements specified by Federal, State, and Local regulations. Notify the proper authorities at the disposal site in advance of delivery of asbestos containing material to the disposal site. Conduct additional sampling deemed necessary by the owner of the disposal facility for acceptance of the material at your expense.

**MEASUREMENT AND PAYMENT**

The contract lump sum price paid for Asbestos Compliance Plan includes full compensation for furnishing all labor, materials, tools, equipment, and incidentals and for doing all the work involved in preparing the Asbestos Compliance Plan, including paying the Certified Industrial Hygienist, and for providing personal protective equipment, training and medical surveillance, as specified in the Standard Specifications and these special provisions, and as directed by the Engineer.

Preparation of a Sampling and Analysis Work Plan, and an Asbestos Removal Work Plan, identifying and determining the extent of asbestos prior to and during demolition or alteration work, including sampling and testing, removal, transportation and disposal of this material will be paid for as extra work as specified in Section 4-1.03D, "Extra Work," of the Standard Specifications.

**BID ITEM LIST  
10-0K0204**

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
121 (F)	839717	CONCRETE BARRIER (TYPE 732 MODIFIED)	M	369		
122	839721	CONCRETE BARRIER (TYPE 732A)	M	1520		
123	840515	THERMOPLASTIC PAVEMENT MARKING	M2	15		
124	840560	THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE)	M	10 900		
125	840600	PAINTED TRAFFIC STRIPE	M	5490		
126	850111	PAVEMENT MARKER (RETROREFLECTIVE)	EA	970		
127	860090	MAINTAINING EXISTING TRAFFIC MANAGEMENT SYSTEM ELEMENTS DURING CONSTRUCTION	LS	LUMP SUM	LUMP SUM	
128	860504	EXTINGUISHABLE MESSAGE SIGN SYSTEM	LS	LUMP SUM	LUMP SUM	
129	860792	COMMUNICATION CONDUIT (BRIDGE)	LS	LUMP SUM	LUMP SUM	
130	861503	MODIFY LIGHTING	LS	LUMP SUM	LUMP SUM	
131	016209	SOFFIT LIGHTING	LS	LUMP SUM	LUMP SUM	
132	BLANK					
133	519129	JOINT SEAL ASSEMBLY (MR 101MM-160MM)	M	146		
134	BLANK					
135	190113	ASBESTOS COMPLIANCE PLAN	LS	LUMP SUM	LUMP SUM	
136	999990	MOBILIZATION	LS	LUMP SUM	LUMP SUM	

**TOTAL BID:**

\$ \_\_\_\_\_