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*Flex your power!
Be energy efficient!*

August 28, 2009

10-Mer-99-25.4/27.8
10-OK0204
SARRA-P099(521)E

Addendum No. 2

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, instead of the original date of Wednesday, September 2, 2009.

This addendum is being issued to set a new bid opening date as shown herein and revise the Project Plans, the Notice to Bidders and Special Provisions, and the Bid book.

Project Plan Sheets 11, 15, 16, 17, 18, 19, 20, 21, 73, 74, 76, 79, 109, 110, 114, 144, 145, 146, 147, 148, 150, 151, 152, 153, 163, 166, 173, 197, 203, 205, 206, 256, 261, 264, and 284 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 10-1.185, "RIGHT OF WAY OBSTRUCTIONS," is added as attached:

In the Special Provisions, Section 10-1.57, "JOINT SEAL ASSEMBLIES (MOVEMENT RATING EXCEEDING 100MM)" is revised as attached.

In the Special Provisions, Section 10-1.58, "ARCHITECTURAL SURFACE (TEXTURED CONCRETE)," is replaced with Section 10-1.58 "ARCHITECTURAL SURFACE (COBBLESTONE TEXTURED CONCRETE)," as attached.

In the Special Provisions, Section 10-1.64, "PREPARE AND STAIN CONCRETE," is revised as attached.

In the Special Provisions, Section 13, "RAILROAD RELATIONS AND INSURANCE REQUIREMENTS," subsection "EXHIBIT I CALTRANS RIGHT OF ENTRY AGREEMENT," sub-subsection "ARTICLE 2 - RIGHT GRANTED; PURPOSE," is revised as follows:

"ARTICLE 2 - RIGHT GRANTED; PURPOSE

Railroad hereby grants to Licensee the right, during the term hereinafter stated and upon and subject to each and all of the terms, provisions and conditions herein contained, to enter upon and have ingress to and egress from the portion of Railroad's property located at or near Milepost 149.00, on Railroad's Fresno Subdivision located at or near City of Merced, Merced County, California, for the purpose of performing work relating to construction, reconstruction, use, maintenance and repair

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of a freeway grade separation overpass for State Route 99 (the "Work"). The right herein granted to Licensee is limited to those portions of Railroad's property specifically described herein, or designated by the Railroad representative named in Article 4."

In the Special Provisions, Section 13, "RAILROAD RELATIONS AND INSURANCE REQUIREMENTS," subsection "EXHIBIT I CALTRANS RIGHT OF ENTRY AGREEMENT," sub-subsection "ARTICLE 5 - TERM; TERMINATION," is revised as follows:

"ARTICLE 5 - TERM; TERMINATION

A. The grant of right herein made to Licensee shall commence on the date of this Agreement, and continue until December 31, 2012, unless sooner terminated as herein provided, or at such time as Licensee has completed its Work on Railroad's property, whichever is earlier. Licensee agrees to notify the Railroad Representative in writing when it has completed its Work on Railroad's property.

B. Railroad may terminate this Agreement if it reasonably determines in good faith that Licensee has failed to comply with any of the material terms and conditions of this Agreement and has not cured such failure within ten (10) days after receiving notice (oral or written) from Railroad describing such failure in reasonable detail."

In the Bid book, in the "Bid Item List," Items 75, 76, and 79 are revised, Items 133 and 134 are added, and Item 81 is deleted as attached.

To Bid book holders:

Replace pages 6, 7 and 9 of the "Bid Item List" in the Bid book with the attached revised pages 6, 7 and 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, attachments and the modified wage rates are available for the Contractors' download on the Web site:

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

5-1.11 SUPPLEMENTAL PROJECT INFORMATION

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">1. Foundation Recommendations Report for West Merced OH, dated November 13, 20082. Geotechnical Design Report, dated October 23, 2007
Available for inspection, by appointment, at 611 San Juan Avenue, Stockton, CA 95203; telephone (209) 948-7849	<ol style="list-style-type: none">1. Cross sections2. Dust Control Plan3. Aerial Lead Site Investigation Report, Dated December 20024. Site Investigation Report, Dated June 2003
Available as specified in the Standard Specifications	Bridge as-built drawings

10-1.185 RIGHT OF WAY OBSTRUCTIONS

Attention is directed to the occupied improvements located within the right of way at:

Parcels # 15885 and 15886.

It is anticipated that these improvements will be vacated and removed by February 1, 2010.

The Contractor shall take no action that will result in unnecessary inconvenience, disproportionate injury or any action coercive in nature to the occupants of these improvements who have not yet moved from the improvements.

In the event that the improvements mentioned above are not removed by the date specified and, if in the opinion of the Engineer, the Contractor's operations are delayed or interfered with by reason of the improvements not being removed by the date specified, the State will compensate the Contractor for the delays to the extent provided in Section 8-1.09, "Right of Way Delays," of the Standard Specifications.

10-1.57 JOINT SEAL ASSEMBLIES (MOVEMENT RATING EXCEEDING 100 mm)

Joint seal assemblies with movement ratings greater than 100 mm shall consist of a metal frame system, supporting rails and support bars with intervening neoprene glands and shall conform to the details shown on the plans, the provisions in Section 51, "Concrete Structures," of the Standard Specifications, and to these special provisions.

Joint seal assemblies will not be considered for approval without satisfactory evidence that the assemblies have had at least one year of satisfactory service under conditions similar to this application.

A qualified representative of the manufacturer shall be present during installation of the first assembly and shall be available for advice during any remaining installations.

The Contractor shall submit complete working drawings for each joint seal assembly to the Offices of Structure Design (OSD) in conformance with the provisions in Section 5-1.02, "Plans and Working Drawings," of the Standard Specifications. The working drawings shall show complete details of the joint seal assembly and anchorage components and the method of installation to be followed, including concrete blockout details and any additions or rearrangements of the reinforcing steel from that shown on the plans. For initial review, 5 sets of drawings shall be submitted. After review, between 6 and 12 sets, as requested by the Engineer, shall be submitted to DSD for final approval and use during construction.

The working drawings shall be supplemented with complete calculations for the particular joint seal assembly, when requested by the Engineer. Working drawings shall be either 279 mm x 432 mm in size and each drawing and calculation sheet shall include the State assigned designations for the contract number, bridge number, full name of the structure as shown on the contract plans, and District-County-Route-Kilometer Post. The design firm's name, address, and phone number shall be shown on the working drawings. Each sheet shall be numbered in the lower right hand corner and shall contain a blank space in the upper right hand corner for future contract sheet numbers.

Calculations, when requested, and working drawings shall be stamped and signed by an engineer who is registered as a Civil Engineer. The Contractor shall allow the Engineer 28 days to review the drawings after a complete set has been received.

Within 21 days after final working drawing approval, one set of corrected 559 mm x 864 mm prints on 75-g/m² (minimum) bond paper of all working drawings prepared by the Contractor for each joint seal assembly shall be furnished to the Engineer.

Each shipment of joint seal assembly materials shall be accompanied by a Certificate of Compliance in conformance with the provisions in Section 6-1.07, "Certificates of Compliance," of the Standard Specifications. The certificate shall state that the materials and fabrication involved comply in all respects to the specifications and data submitted in obtaining approval.

The neoprene glands shall conform to the requirements in Table 1 of ASTM Designation: D 2628 and the following, except that no recovery tests or compression-deflection tests will be required:

Property	Requirement	ASTM Test Method
Hardness, Type A Durometer, points	55-70	D 2240 (Modified)
Compression set, 70 hours at 100°C maximum, percent	40	D 395 Method B (Modified)

All metal parts of the joint seal assembly shall conform to the provisions in Section 75-1.03, "Miscellaneous Bridge Metal," of the Standard Specifications. Bolts, nuts and washers shall conform to the provisions for high-strength steel fastener assemblies in Section 75-1.02, "Miscellaneous Iron and Steel," of the Standard Specifications. At the Contractor's option, metal parts may conform to the requirements of ASTM Designation: A 572/A 572M.

At the Contractor's option, cleaning and painting of all new metal surfaces of the joint seal assembly, except stainless steel and anchorages embedded in concrete, may be substituted for galvanizing. Cleaning and painting shall be in conformance with the provisions in "Clean and Paint Joint Seal Assemblies" of these special provisions.

If the assembly consists of more than one component, the design of the assembly shall be such that the external components can be removed and reinstalled at any position, within the larger one-half of the movement rating shown on the plans, to permit the inspection of the internal components of the assembly.

Except for components in contact with the tires, the assembly and its components shall be designed to support the AASHTO HS20-44 loading with 100 percent impact. Each component in contact with the tires shall support a minimum of 80 percent of the AASHTO HS20-44 loading with 100 percent impact. The tire contact area used to distribute the tire loads shall be 244 mm, measured normal to the longitudinal axis of the assembly, by 508 mm wide. The assembly shall provide a smooth riding joint without slapping of components or wheel tire rumble.

The movement rating of the assembly shall be measured normal to the longitudinal axis of the assembly. The dimensions for positioning the assembly within the movement rating during installation shall be measured normal to the longitudinal axis, disregarding any skew of the deck expansion joint. The assembly shall be capable of adjustment to the "a" dimension shown on the plans.

The maximum width of unsupported or yielding components or grooves in the roadway surface of the assembly, measured in the direction of vehicular traffic, shall be 75 mm.

The bridge deck surface shall conform to the provisions in Section 51-1.17 "Finishing Bridge Deck," of the Standard Specifications prior to placing joint seal assemblies and anchorage.

The assembly shall be completely shop-assembled and placed in a blocked out recess in the concrete deck surface. The depth and width of the recess shall permit the installation of the assembly anchorage components or anchorage bearing surface to the planned line and grade.

The maximum depth and width of the recess shall be such that the primary reinforcement to provide the necessary strength of the structural members is outside the recess. The maximum depth of the recess at abutments shall be 400 mm. The maximum width of recess on each side of the expansion joint shall be 600 mm.

All reinforcement other than primary reinforcement shall continue through the recess construction joint into the recess and engage the anchorage components of the assembly.

The vertical expansion joint in barrier shall be available for inspection after placement of the recess concrete around the anchorage components of the assembly.

The assembly shall make a watertight, continuous return 150 mm up into the barrier at the low side of the deck joint. Neoprene glands shall be continuous without field splices or joints, including the return up into the barrier.

Full compensation for any additional materials or work required because of application of the optional cleaning and painting shall be considered as included in the contract price paid per linear meter for the joint seal assembly involved, and no additional compensation will be allowed therefor.

10-1.58 ARCHITECTURAL SURFACE (COBBLESTONE TEXTURED CONCRETE)

Architectural texture for concrete surfaces shall conform to the details shown on the plans and the provisions in Section 51, "Concrete Structures," of the Standard Specifications and these special provisions.

Architectural textures listed below are required at concrete surfaces shown on the plans:

A. Cobblestone texture

Attention is directed to "Prepare and Stain Concrete" of these special provisions.

FORM LINERS

Form liners shall be used for textured concrete surfaces and shall be installed in conformance with the manufacturer's recommendations, unless other methods of forming textured concrete surfaces are approved by the Engineer. Form liners shall be manufactured from an elastomeric material or a semi-elastomeric polyurethane material by a manufacturer of commercially available concrete form liners. No substitution of other types of formliner material will be allowed. Form liners shall leave crisp, sharp definition of the architectural surface. Recurring textural configurations exhibited by repeating, recognizable shadow patterns shall be prevented by proper casting of form liner patterns. Textured concrete surfaces with such recurring textural configurations shall be reworked to remove such patterns as approved by the Engineer or the concrete shall be replaced.

Form liners shall have the following properties:

Description	ASTM Designation:	Range
Elastomeric material		
Shore A hardness	D 2240	20 to 65
Tensile strength (MPa)	D 412	0.9 to 6.2
Semi-elastomeric polyurethane		
Shore D hardness	D 2240	55 to 65
Tensile strength (MPa)	D 2370	18 minimum

Cuts and tears in form liners shall be sealed and repaired in conformance with the manufacturer's recommendations. Form liners that are delaminated from the form shall not be used. Form liners with deformations to the manufactured surface caused by improper storage practices or any other reason shall not be used.

Form liners shall extend the full length of texturing with transverse joints at 2.5 m minimum spacing. Small pieces of form liners shall not be used. Grooves shall be aligned straight and true. Grooves shall match at joints between form liners. Joints in the direction of grooves in grooved patterns shall be located only in the depressed portion of the textured concrete. Adjoining liners shall be butted together without distortion, open cracks or offsets at the joints. Joints between liners shall be cleaned before each use to remove any mortar in the joint.

Adhesives shall be compatible with the form liner material and with concrete. Adhesives shall be approved by the liner manufacturer. Adhesives shall not cause swelling of the liner material.

RELEASING FORM LINERS

Products and application procedures for form release agents shall be approved by the form liner manufacturer. Release agents shall not cause swelling of the liner material or delamination from the forms. Release agents shall not stain the concrete or react with the liner material. For reliefs simulating fractured concrete or wood grain surfaces the application method shall include the scrubbing method using a natural bristle scrub brush in the direction of grooves or grain. The release agent shall coat the liner with a thin film. Following application of form release agent, the liner surfaces shall be cleaned of excess amounts of agent using compressed air. Buildup of form release agent caused by the reuse of a liner shall be removed at least every 5 uses.

Form liners shall release without leaving particles or pieces of liner material on the concrete and without pulling or breaking concrete from the textured surface. The concrete surfaces exposed by removing forms shall be protected from damage.

ABRASIVE BLASTING

The architectural texture shall be abrasive blasted with fine abrasive to remove the sheen without exposing coarse aggregate.

CURING

Concrete surfaces with architectural texture shall be cured only by the forms-in-place or water methods. Seals and curing compounds shall not be used.

MEASUREMENT AND PAYMENT

Architectural texture will be measured and paid for by the square meter.

The contract price paid per square meter for architectural surface (cobblestone textured concrete) on retaining walls, columns and wingwalls of the types listed in the Engineer's Estimate shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals and for doing all the work involved in architectural texture, complete in place, including test panels, as shown on the plans, as specified in the Standard Specifications and these special provisions, and as directed by the Engineer.

Full compensation for architectural texture on concrete barriers shall be considered as included in the contract price paid per linear meter for concrete barriers of the types shown in the engineers estimate, and no separate payment will be made therefor.

10-1.64 PREPARE AND STAIN CONCRETE

This work shall consist of preparing and staining concrete surfaces where shown on the plans in conformance with the provisions in Section 59-1.06, "Painting Concrete," of the Standard Specifications and these special provisions.

Concrete stain shall be a water-based solution of metallic salts that penetrate and react with concrete to produce insoluble, abrasion-resistant color deposits. The stain shall contain dilute acid to etch concrete surfaces so that the staining ingredients can penetrate the concrete.

Concrete stain shall be formulated and applied to replicate a random stone appearance so that the final color of the stained concrete conforms to Federal Standard 595B Nos. 30372, 30475 and 36307.

A test panel at least one meter by one meter shall be completed and approved at a location approved by the Engineer before beginning work on architectural texture and staining concrete. The test panel shall be constructed, finished, and stained with the materials, tools, equipment, personnel, and methods to be used in constructing, finishing, and staining the concrete surfaces. Additional test panels may be ordered by the Engineer until the specified finish, texture, and color are obtained.

The test panel approved by the Engineer shall be used as the standard of comparison in determining acceptability of architectural texture and staining for concrete surfaces.

The Contractor shall submit a copy of the stain manufacturer's recommendations and written application instructions to the Engineer not less than 7 days before applying concrete stain to test panels.

New concrete surfaces to be stained shall be cured in conformance with the provisions in Section 90-7.03, "Curing Structures," of the Standard Specifications and these special provisions.

The Contractor shall seal joints between concrete surfaces to be stained and metal surfaces that are galvanized or painted with a polysulfide or polyurethane sealing compound conforming to the requirements in ASTM Designation: C 920, Type S, Grade NS, Class 25, Use M. The color of the sealant shall match the Mission Avenue Overcrossing (Br No. 39-228) on Merced, Route 99-PM 11.66.

Immediately before commencing work, the Contractor shall test concrete surfaces to be stained for acceptance of stain in conformance with the manufacturer's recommendations. Areas that resist accepting stain shall be cleaned as approved by the Engineer.

The Contractor shall apply the concrete stain in conformance with the manufacturer's recommendations and these special provisions. The stain shall be applied uniformly, working to avoid excessive rundown. The stain shall be worked into the concrete surface in circular motions with a nylon-bristled brush. Drips, puddles, or other irregularities shall be worked into the concrete.

After the last coat of stain has dried, the Contractor shall rinse stained surfaces with water and wet scrub surfaces with a stiff bristled nylon brush until the rinse water runs clear.

The Contractor shall protect adjacent surfaces during concrete staining operations.

Prepare and stain concrete will be measured by the square meter.

The contract price paid per square meter for prepare and stain concrete on retaining walls, columns and wingwall shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in preparing of and applying stain to concrete surfaces, complete in place, including construction of test panels, as shown on the plans, as specified in the Standard Specifications and these special provisions, and as directed by the Engineer.

Full compensation for prepare and stain concrete on concrete barriers shall be considered as included in the contract price paid per linear meter for concrete barrier, and no separate payment will be made therefor.

**BID ITEM LIST
10-0K0204**

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
61	390095	REPLACE ASPHALT CONCRETE SURFACING	M3	470		
62	390131	HOT MIX ASPHALT	TONN	23 900		
63	394051	SHOULDER RUMBLE STRIP (HMA,ROLLED-IN INDENTATIONS)	STA	10		
64	394060	DATA CORE	LS	LUMP SUM	LUMP SUM	
65	394073	PLACE HOT MIX ASPHALT DIKE (TYPE A)	M	630		
66	394075	PLACE HOT MIX ASPHALT DIKE (TYPE D)	M	420		
67	394076	PLACE HOT MIX ASPHALT DIKE (TYPE E)	M	270		
68	394077	PLACE HOT MIX ASPHALT DIKE (TYPE F)	M	290		
69	397005	TACK COAT	TONN	10		
70	490511	FURNISH STEEL PILING (HP 250 X 85)	M	7537		
71	490512	DRIVE STEEL PILE (HP 250 X 85)	EA	420		
72	500001	PRESTRESSING CAST-IN-PLACE CONCRETE	LS	LUMP SUM	LUMP SUM	
73 (F)	510051	STRUCTURAL CONCRETE, BRIDGE FOOTING	M3	750		
74 (F)	510053	STRUCTURAL CONCRETE, BRIDGE	M3	6150		
75 (F)	510060	STRUCTURAL CONCRETE, RETAINING WALL	M3	6714		
76 (F)	510086	STRUCTURAL CONCRETE, APPROACH SLAB (TYPE N)	M3	210		
77 (F)	510502	MINOR CONCRETE (MINOR STRUCTURE)	M3	52		
78	510805	DIAPHRAGM BOLSTER	EA	16		
79 (F)	041914	ARCHITECTURAL SURFACE (COBBLESTONE TEXTURED CONCRETE)	M2	6940		
80	515077	CORE CONCRETE (251 MM - 300 MM)	M	9		

**BID ITEM LIST
10-0K0204**

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
81	BLANK					
82 (F)	520102	BAR REINFORCING STEEL (BRIDGE)	KG	860 000		
83 (F)	520103	BAR REINFORCING STEEL (RETAINING WALL)	KG	789 864		
84	560239	FURNISH SINGLE SHEET ALUMINUM SIGN (2.0 MM-UNFRAMED)	M2	1.5		
85	566011	ROADSIDE SIGN - ONE POST	EA	1		
86	597601	PREPARE AND STAIN CONCRETE	M2	7100		
87	650069	450 MM REINFORCED CONCRETE PIPE	M	150		
88	650075	600 MM REINFORCED CONCRETE PIPE	M	340		
89	650077	750 MM REINFORCED CONCRETE PIPE	M	3.6		
90	664010	300 MM CORRUGATED STEEL PIPE (2.01 MM THICK)	M	120		
91	664015	450 MM CORRUGATED STEEL PIPE (2.01 MM THICK)	M	5		
92	664020	600 MM CORRUGATED STEEL PIPE (2.01 MM THICK)	M	43		
93	703450	WELDED STEEL PIPE CASING (BRIDGE)	M	26		
94	705042	300 MM STEEL FLARED END SECTION	EA	5		
95	705044	450 MM STEEL FLARED END SECTION	EA	1		
96	705045	600 MM STEEL FLARED END SECTION	EA	2		
97	705222	450 MM CONCRETE FLARED END SECTION	EA	1		
98	705224	600 MM CONCRETE FLARED END SECTION	EA	1		
99	721011	ROCK SLOPE PROTECTION (BACKING NO. 2, METHOD B)	M3	38		
100 (F)	041915	SLOPE PAVING (EXPOSED AGGREGATE)	M2	2460		

**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	999990	MOBILIZATION	LS	LUMP SUM	LUMP SUM	
132	BLANK					
133	519129	JOINT SEAL ASSEMBLY (MR 101 MM-160 MM)	M	146		
134	999990	MOBILIZATION	LS	LUMP SUM	LUMP SUM	

TOTAL BID:

\$ _____