

DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

OFFICE ENGINEER

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*Serious Drought.
Help save water!*

May 14, 2014

08-SBd-138-R24.1

08-0J8504

Project ID 0800000324

ACSTP-P138(048)E

Addendum No. 2

Dear Contractor:

This addendum is being issued to the contract for CONSTRUCTION ON STATE HIGHWAY IN SAN BERNARDINO COUNTY IN AND NEAR HESPERIA AT HORSETHIEF CREEK 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 Thursday, May 22, 2014.

This addendum is being issued to revise the project plans, the *Notice to Bidders and Special Provisions*, and the *Bid* book.

Project plan sheets 20, 21, 22, 23, 24, 25, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, and 96 are replaced and attached for substitution for the like-numbered sheets.

Project plan sheets 18A, 24A, 24B, and 24C are added and attached for addition to the project plans.

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

Add to 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>	Arroyo toad (<i>anaxyrus californicus</i>), Biological Opinion, 1602 permit, 401 permit, 404 permit Asbestos containing materials and lead-based paint survey report. Final Hydraulics Report, dated September 23, 2013. Foundation Report for Horsethief Creek Bridge Replacement dated September 12, 2013.
Available as specified in the <i>Standard Specifications</i>	Cross sections Bridge as-built drawings
Included with the project plans	Log of test borings
Available for inspection at the Transportation Laboratory, 5900 Folsom Blvd. Sacramento, CA 95815	PA and UC lab test data, rock cores

In the Special Provisions, Section 15, "EXISTING FACILITIES," the following paragraphs are added after the Replace section 15-2.02C(2) with: paragraph.

"Replace "Reserved" in section 15-2.03A(2)(b) with:

Salvage storage is located at 451 W Slover Ave, Bloomington, CA 92316.

Notify the Engineer and the salvage storage Coordinator, telephone (909) 877-3708, a minimum of 48 hours prior to hauling salvaged material to the salvage storage.

Replace "Reserved" in section 15-2.03D with:

15-2.03D Salvage Metal Bridge Railing

Salvage existing metal bridge railing including bridge rails and posts.

Add to section 15-4.01A(2):

The Department's review time for work plans for removing specific structures or portions of structures is shown in the following table:

<u>Structure or portion of structure</u>	<u>Review time</u>
<u>Horsethief Creek Bridge Bridge No. 54-0816</u>	<u>35 days</u>

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In the Special Provisions, Section 49, "PILING," the following paragraphs are added as follows:

Replace "Reserved" in section 49-3.02A(4)(b) with:

Schedule and hold a preconstruction meeting for CIDH concrete pile construction (1) at least 5 business days after submitting the pile installation plan and (2) at least 10 days before the start of CIDH concrete pile construction. You must provide a facility for the meeting.

The meeting must include the Engineer, your representatives, and any subcontractors involved in CIDH concrete pile construction.

The purpose of this meeting is to:

1. Establish contacts and communication protocol between you and your representatives, any subcontractors, and the Engineer
2. Review the construction process, acceptance testing, and anomaly mitigation of CIDH concrete piles

The Engineer will conduct the meeting. Be prepared to discuss the following:

1. Pile placement plan, dry and wet
2. Acceptance testing, including gamma-gamma logging, cross-hole sonic logging, and coring
3. *Pile Design Data Form*
4. Mitigation process
5. Timeline and critical path activities
6. Structural, geotechnical, and corrosion design requirements
7. Future meetings, if necessary, for pile mitigation and pile mitigation plan review
8. Safety requirements, including Cal/OSHA and Tunnel Safety Orders

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In the Special Provisions, Section 49, "PILING," the following paragraphs are added as follows:

Add to section 49-3.02B(6)(c):

The synthetic slurry must be one of the materials shown in the following table:

Material	Manufacturer
SlurryPro CDP	KB INTERNATIONAL LLC 735 BOARD ST STE 209 CHATTANOOGA TN 37402 (423) 266-6964
Super Mud	PDS CO INC 105 W SHARP ST EL DORADO AR 71731 (870) 863-5707
Shore Pac GCV	CETCO CONSTRUCTION DRILLING PRODUCTS 2870 FORBS AVE HOFFMAN ESTATES IL 60192 (800) 527-9948
Terragel or Novagel Polymer	GEO-TECH SERVICES LLC 220 N. ZAPATA HWY STE 11A-449A LAREDO TX 78043 (210) 259-6386

Use synthetic slurries in compliance with the manufacturer's instructions. Synthetic slurries shown in the above table may not be appropriate for a given job site.

Synthetic slurries must comply with the Department's requirements for synthetic slurries to be included in the above table. The requirements are available from the Offices of Structure Design, P.O. Box 168041, MS# 9-4/11G, Sacramento, CA 95816-8041.

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SlurryPro CDP synthetic slurry must comply with the requirements shown in the following table:

SLURRYPRO CDP

Property	Test	Value
Density During drilling	Mud Weight (density), API 13B-1, section 1	≤ 67.0 pcf ^a
Before final cleaning and immediately before placing concrete		≤ 64.0 pcf ^a
Viscosity During drilling	Marsh Funnel and Cup. API 13B-1, section 2.2	50–120 sec/qt
Before final cleaning and immediately before placing concrete		≤ 70 sec/qt
pH	Glass electrode pH meter or pH paper	6.0–11.5
Sand content, percent by volume Before final cleaning and immediately before placing concrete	Sand, API 13B-1, section 5	≤ 0.5 percent

^aIf authorized, you may use slurry in salt water. The allowable density of slurry in salt water may be increased by 2 pcf.

Slurry temperature must be at least 40 degrees F when tested.

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Super Mud synthetic slurry must comply with the requirements shown in the following table:

SUPER MUD

Property	Test	Value
Density During drilling	Mud Weight (Density), API 13B-1, section 1	≤ 64.0 pcf ^a
Before final cleaning and immediately before placing concrete		≤ 64.0 pcf ^a
Viscosity During drilling	Marsh Funnel and Cup. API 13B-1, section 2.2	32–60 sec/qt
Before final cleaning and immediately before placing concrete		≤ 60 sec/qt
pH	Glass electrode pH meter or pH paper	8.0–10.0
Sand content, percent by volume Before final cleaning and immediately before placing concrete	Sand, API 13B-1, section 5	≤ 0.5 percent

^aIf authorized, you may use slurry in salt water. The allowable density of slurry in salt water may be increased by 2 pcf.

Slurry temperature must be at least 40 degrees F when tested.

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Shore Pac GCV synthetic slurry must comply with the requirements shown in the following table:

SHORE PAC GCV

Property	Test	Value
Density During drilling	Mud Weight (Density), API 13B-1, section 1	≤ 64.0 pcf ^a
Before final cleaning and immediately before placing concrete		≤ 64.0 pcf ^a
Viscosity During drilling	Marsh Funnel and Cup. API 13B-1, section 2.2	33–74 sec/qt
Before final cleaning and immediately before placing concrete		≤ 57 sec/qt
pH	Glass electrode pH meter or pH paper	8.0–11.0
Sand content, percent by volume Before final cleaning and immediately before placing concrete	Sand, API 13B-1, section 5	≤ 0.5 percent

^aIf authorized, you may use slurry in salt water. The allowable density of slurry in salt water may be increased by 2 pcf.

Slurry temperature must be at least 40 degrees F when tested.

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Terragel or Novagel Polymer synthetic slurry must comply with the requirements shown in the following table:

TERRAGEL OR NOVAGEL POLYMER

Property	Test	Value
Density During drilling	Mud Weight (Density), API 13B-1, section 1	≤ 67.0 pcf ^a
Before final cleaning and immediately before placing concrete		≤ 64.0 pcf ^a
Viscosity During drilling	Marsh Funnel and Cup. API 13B-1, section 2.2	45–104 sec/qt
Before final cleaning and immediately before placing concrete		≤ 104 sec/qt
pH	Glass electrode pH meter or pH paper	6.0–11.5
Sand content, percent by volume Before final cleaning and immediately before placing concrete	Sand, API 13B-1, section 5	≤ 0.5 percent

^aIf authorized, you may use slurry in salt water. The allowable density of slurry in salt water may be increased by 2 pcf.

Slurry temperature must be at least 40 degrees F when tested.

In the Special Provisions, Section 50, "PRESTRESSING CONCRETE," is added after section 49 as follows:

"50 PRESTRESSING CONCRETE

Add to the list in the 5th paragraph of section 50-1.01C(3):

Details of both pretensioning and post-tensioning in combined working drawings. You must resolve any conflict between pretensioning and post-tensioning systems."

In the Special Provisions, Section 51, "CONCRETE STRUCTURES," the Add to section 51-1.01A: paragraph is replaced as follows:

"Add to section 51-1.01A:

Construction temporary supports for concrete structures must comply with section 48-2."

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In the Special Provisions, Section 51, "CONCRETE STRUCTURES," the following paragraphs are added as follows:

Add to section 51-1.02B:

For the portions of structures shown in the following table, concrete must contain at least 675 pounds of cementitious material per cubic yard:

Bridge name and no.	Portion of structure
Horsethief Creek Bridge Bridge No. 54-1271	All portions of structure except the underground portions

Add to section 51-4.01A:

PC PS girders must include post-tensioning ducts and incidental parts for post-tensioning.

In the Special Provisions, Section 52, "REINFORCEMENT," is added as follow:

"52 REINFORCEMENT

Add to section 52-2.02B:

You may substitute bar reinforcing steel conforming to ASTM A1035 as an alternative to epoxy-coated reinforcement at the following locations:

1. Wingwall, concrete barriers and approach slabs for Horsethief Creek Bridge, bridge No. 54-1271

Substituted bar reinforcement must be the same bar size and placed at the same spacing as described for the epoxy-coated reinforcement."

In the Special Provisions, Section 59, "PAINTING," the first sentence is replaced as follows:

Replace "an acid" in the 1st paragraph of section 59-7.01A(1) of the RSS for section 59-7 with: "a"

In the Special Provisions, Section 75, "MISCELLANEOUS METAL," is added after section 59 as follow:

"75 MISCELLANEOUS METAL

Add to the list in the 2nd paragraph of section 75-1.03A:

6. Column pins"

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In the Special Provisions, Section 83, "RAILINGS AND BARRIERS," the following paragraph is added as follows:

Add to section 83-2.02D(1)

Concrete barrier (Type 80 Modified) at Horsethief Creek Bridge, bridge No. 54-1271, must comply with section 59.

In the Special Provisions, Section 90, "CONCRETE," is added after section 87 as follow:

"90 CONCRETE

Add to section 90-1.02I(2)(a):

For concrete at Horsethief Creek Bridge, bridge No. 54-1271, the mortar strength of the fine aggregate relative to the mortar strength of Ottawa sand must be a minimum of 100 percent under California Test 515."

"Add to section 90-1.02I(2)(b):

Concrete at barrier rails, deck slabs and approach slabs is exposed to deicing chemicals."

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In the *Bid* book, in the "Bid Item List," Item(s) 5, 7, 12, 13, and 79 (are) replaced as attached.

To *Bid* book holders:

In the *Bid* book, pages 3 and 5 of the "Bid Item List" are replaced as attached. The attached 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 are available for the Contractors' download on the Web site:

http://www.dot.ca.gov/hq/esc/oe/project_ads_addenda/08/08-0J8504

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,



MOHSEN SULTAN
Chief, Office of Plans, Specifications & Estimates
Office Engineer
Division of Engineering Services

Attachments

BID ITEM LIST
08-0J8504

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
1	070030	LEAD COMPLIANCE PLAN	LS	LUMP SUM	LUMP SUM	
2	090100	TIME-RELATED OVERHEAD (WDAY)	WDAY	350		
3	120090	CONSTRUCTION AREA SIGNS	LS	LUMP SUM	LUMP SUM	
4	120100	TRAFFIC CONTROL SYSTEM	LS	LUMP SUM	LUMP SUM	
5	120151	TEMPORARY TRAFFIC STRIPE (TAPE)	LF	15,800		
6	120152	TEMPORARY PAVEMENT MARKING (TAPE)	SQFT	48		
7	120165	CHANNELIZER (SURFACE MOUNTED)	EA	120		
8	120200	FLASHING BEACON (PORTABLE)	EA	3		
9	128601	TEMPORARY SIGNAL SYSTEM	LS	LUMP SUM	LUMP SUM	
10	128651	PORTABLE CHANGEABLE MESSAGE SIGN (EA)	EA	5		
11	128660	TEMPORARY FLASHING BEACON	EA	2		
12	129000	TEMPORARY RAILING (TYPE K)	LF	3,490		
13	129100	TEMPORARY CRASH CUSHION MODULE	EA	84		
14	130100	JOB SITE MANAGEMENT	LS	LUMP SUM	LUMP SUM	
15	130300	PREPARE STORM WATER POLLUTION PREVENTION PLAN	LS	LUMP SUM	LUMP SUM	
16	130310	RAIN EVENT ACTION PLAN	EA	48	500.00	24,000.00
17	130320	STORM WATER SAMPLING AND ANALYSIS DAY	EA	21		
18	130330	STORM WATER ANNUAL REPORT	EA	1	2,000.00	2,000.00
19	130620	TEMPORARY DRAINAGE INLET PROTECTION	EA	2		
20	130640	TEMPORARY FIBER ROLL	LF	1,900		

BID ITEM LIST

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Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
61 (F)	510053	STRUCTURAL CONCRETE, BRIDGE	CY	1,150		
62 (F)	510086	STRUCTURAL CONCRETE, APPROACH SLAB (TYPE N)	CY	102		
63	510502	MINOR CONCRETE (MINOR STRUCTURE)	CY	5.8		
64 (F)	044554	RANDOM BOULDER TEXTURE	SQFT	1,250		
65	512277	FURNISH PRECAST PRESTRESSED CONCRETE BULB-TEE GIRDER (80'-90')	EA	5		
66	512288	FURNISH PRECAST PRESTRESSED CONCRETE BULB-TEE GIRDER (40'-50')	EA	10		
67	512289	FURNISH PRECAST PRESTRESSED CONCRETE BULB-TEE GIRDER (50'-60')	EA	10		
68 (F)	512500	ERECT PRECAST PRESTRESSED CONCRETE GIRDER	EA	25		
69	519081	JOINT SEAL (MR 1/2")	LF	115		
70	519100	JOINT SEAL (MR 2")	LF	115		
71 (F)	520102	BAR REINFORCING STEEL (BRIDGE)	LB	275,000		
72 (F)	520110	BAR REINFORCING STEEL (EPOXY COATED) (BRIDGE)	LB	116,000		
73 (F)	597601	PREPARE AND STAIN CONCRETE	SQFT	41,780		
74	665024	24" CORRUGATED STEEL PIPE (.109" THICK)	LF	120		
75	705015	24" STEEL FLARED END SECTION	EA	2		
76	721028	ROCK SLOPE PROTECTION (NO. 2, METHOD B) (CY)	CY	6.2		
77	729011	ROCK SLOPE PROTECTION FABRIC (CLASS 8)	SQYD	32		
78	750001	MISCELLANEOUS IRON AND STEEL	LB	650		
79 (F)	750501	MISCELLANEOUS METAL (BRIDGE)	LB	10,500		
80	026931	TEMPORARY ARROYO TOAD FENCE	LF	1,140		