

**DEPARTMENT OF TRANSPORTATION**  
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March 13, 2009

07-LA-10-50.2/53.4  
07-117074  
HP21CMLN-6207(048)

Addendum No. 4

Dear Contractor:

This addendum is being issued to the contract for CONSTRUCTION ON STATE HIGHWAY IN LOS ANGELES COUNTY IN BALDWIN PARK FROM ROUTE 605/10 SEPARATION TO 0.2 KM WEST OF PUENTE AVENUE UNDERCROSSING.

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, March 19, 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 4, 13, 77, 78, 79, 80, 83, 378, 841, 842, 843, 859, 930, and 940 are revised. Copies of the revised sheets are attached for substitution for the like-numbered sheets.

Project Plan Sheet 104A is added. A half-sized copy of the added sheet is attached for addition to the project plans.

In the Special Provisions, Section 8-3.01, "WELDING," subsection "WELDING QUALITY CONTROL," the third paragraph is deleted.

In the Special Provisions, Section 8-3.01, "WELDING," subsection "WELDING QUALITY CONTROL," the eleventh paragraph is revised as follows:

"Welding inspection personnel or NDT firms to be used in the work shall not be employed or compensated by any subcontractor, or by other persons or entities hired by subcontractors, who will provide other services or materials for the project, except for the following conditions:

- A. The work is welded in conformance with AWS D1.5 and is performed at a permanent fabrication or manufacturing facility that is certified under the AISC Quality Certification Program, Major Steel Bridges and Fracture Critical endorsement F, when applicable.
- B. The welding is performed on pipe pile material at a permanent pipe manufacturing facility authorized to apply the American Petroleum Institute (API) monogram for API 5L pipe."

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In the Special Provisions, Section 10-1.45, "JOINTED PLAIN CONCRETE PAVEMENT," subsection "MEASUREMENT AND PAYMENT," the fifth paragraph is revised as follows:

"The contract price paid per cubic meter for concrete pavement shall include full compensation for furnishing all labor, materials (including cementitious material in the amount determined by the Contractor), tools, equipment, and incidentals, and for doing all the work involved in constructing the portland cement concrete pavement complete in place, submittal to the Engineer all test data for determination of mix proportions of concrete for concrete pavement and for providing the facility, Contractor personnel and all the work involved in arranging and holding the prepaving conference, for constructing and repairing all joints; for performing all profile checks for Profile Index and furnishing final profilograms to the Engineer; for grooving and grinding required for final finishing; and for removing, and replacing pavement for deficient thickness, as shown on the plans, as specified in the Standard Specifications and these special provisions, and as directed by the Engineer."

In the Special Provisions, Section 10-1.45, "JOINTED PLAIN CONCRETE PAVEMENT," subsection "MEASUREMENT AND PAYMENT," the following two paragraphs are added after the fifth paragraph:

"The contract unit price paid for tie bar shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals and for doing all the work involved in placing tie bars, epoxy-coated tie bars, and when used, any tie bar baskets and with fasteners as shown on the plans, as specified in the Standard Specifications, and these special provisions, and as directed by the Engineer.

The contract unit price paid for dowel bar shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals and for doing all the work involved in placing dowel bars, and when used, any dowel bar baskets with fasteners as shown on the plans, as specified in the Standard Specifications, and these special provisions, and as directed by the Engineer."

In the Special Provisions, Section 10-1.48, "PILING," subsection "MEASUREMENT AND PAYMENT," the second paragraph is revised as follows:

"Payment for cast-in-place concrete piling shall conform to the provisions in Section 49-6.02, "Payment," of the Standard Specifications and these special provisions except that, when the diameter of cast-in-place concrete piling is shown on the plans as 600 mm or larger, reinforcement in the piling will be paid for by the kilogram as bar reinforcing steel (bridge) and bar reinforcing steel (retaining wall), except for sign foundation piles and piles for electrical foundations."

In the Special Provisions, Section 10-1.54, "PRECAST PRESTRESSED CONCRETE SLABS," the eighth paragraph is revised as follows:

"Precast prestressed concrete slabs will be measured by the square meter for furnish precast prestressed concrete slab of the various types shown on the plans. Erection of precast prestressed concrete slabs will be measured by the square meter for erect precast prestressed concrete deck unit. The pay quantities for furnishing and erecting the slabs will be computed on the basis of the width and length of the individual slabs as shown on the plans. No measurement or payment will be made for any portion of the superstructure in excess of the width shown on the plans."

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In the Special Provisions, Section 10-1.66, "STEEL STRUCTURES," subsection "GENERAL," the following paragraph is added before the first paragraph:

"At the Bess Ave POC (Replace), Br No 53-3023, the following shall apply:

- A. For tubular steel structures, the first paragraph of Section 55 –3.17, "Welding," of the Standard Specifications shall not apply.
- B. The work is to be welded at a permanent fabrication or manufacturing facility that is certified under the AISC Quality Certification Program, Major Steel Bridge or Simple Steel Bridge Structures. Either certification also requires Fracture Critical Endorsement.
- C. Tubular members not designated as fracture critical members (FCM)s, shall conform to the requirements of AWS D1.1.
- D. Tubular members and attachments to tubular members shown on the plans as FCMs shall conform to the requirements of AWS D1.1 and the following additional requirements:
  1. The following Sections of AWS D1.5 shall also apply:
    - a. Section 12.4, "Base Metal Requirements." Tubular sections to be treated as ASTM A709, Grade 50.
    - b. Section 12.5, "Welding Processes."
    - c. Section 12.6, "Consumable Requirements."
    - d. Section 12.7.4, "Period of Effectiveness"
    - e. Section 12.8, "Certification and Qualification."
    - f. Section 12.11, "Repair of Base Metal"
    - g. Section 12.12, "Straightening, Curving, and Cambering."
    - h. Section 12.13, "Tack Welds and Temporary Welds."
    - i. Section 12.14, "Preheat and Interpass Temperature Control."
    - j. Section 12.15, "Postweld Thermal Treatments." Tubular sections to be treated as ASTM A709, Grade 50.
    - k. Section 12.16.1, "QA/QC."
    - l. Section 12.16.4, "Cooling Times Prior to Inspection."
    - m. Section 12.16.5, "Inspection and Record Keeping."
    - n. Section 12.17, "Repair Welding."
- E. All groove welds shall be complete joint penetration welds unless labeled as partial penetration welds.
- F. Welding of tubular steel shall be qualified in conformance with the requirements in AWS D 1.1, Section 4.12. All groove welds require qualification.
- G. All "T", "Y", and "K" full penetration joints shall be qualified in accordance with the requirements of AWS D1.1, Section 4.12.4.
- H. Prior to any "T," "Y," or "K" type joint welding, the Contractor shall provide a full size mock-up of the most difficult joint, as determined by the Engineer, that includes all attachments regardless of weld type. The mock-up production shall be witnessed by the Engineer. Welds in the mock-ups will be evaluated by the Engineer for penetration, fusion, and weld quality based on macroetch sections as determined by the Engineer.
- I. Contractor's personnel performing complete penetration production welds for "T," "K," and "Y" type joint welding shall be qualified in the 6GR position using the sample described in AWS D1.1, Figure 4.27. Macroetches are required.

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- J. Contractor's personnel performing partial penetration production welds for "T," "K," and "Y" type joint welding shall at a minimum be qualified in the (2G + 5G) or 6G positions. Macroetches are required.
- K. Fracture Critical Components for steel tubular sections shall conform to the impact requirements in ASTM Designation: A 709, Grade 50, Zone 2.
- L. The following Non-Destructive Testing is required for tubular sections:
  - a. All welds on fracture critical members shall be 100 percent visually and 100 percent MT inspected.
  - b. All butt welds on fracture critical members shall be 100 percent UT tested per AWS D1.1 as cyclically loaded members subject to tension.

In the Special Provisions, Section 10-1.925, "CONCRETE BARRIER ARCHITECTURAL SURFACE TREATMENT," is added as attached.

In the Bid book, in the "Bid Item List," Items 59, 60, 61, 62, 102, 103, and 120 are revised as attached.

To Bid book holders:

Replace pages 5, 6 and 8 of the "Bid Item List" in the Bid book with the attached revised pages 5, 6, and 8 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 office is sending this addendum by GSO overnight mail to Bid book holders to ensure that each receives it. A copy of this addendum and the modified wage rates are available for the Contractors' use on the Web site:

**[http://www.dot.ca.gov/hq/esc/oe/weekly\\_ads/addenda.php](http://www.dot.ca.gov/hq/esc/oe/weekly_ads/addenda.php)**

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  
Division of Engineering Services - Office Engineer

Attachments

### **10-1.925 CONCRETE BARRIER ARCHITECTURAL SURFACE TREATMENT**

Architectural Surface Treatment, for concrete barrier, shall conform to the provisions in Section 83-2, "Barriers" of the Standard Specifications, plans and these special provisions, except the provisions of the third paragraph in Section 83-2.02D(4), "Finishing," of the Standard Specifications shall not apply. Architectural Surface Treatment shall be applied to concrete barrier (Type 60G).

Concrete barrier shall be constructed by extrusion method in conformance with Section 83-2.202D(3b) "Extrusion or Slip Form" of the Standard Specifications.

#### **Architectural Treatment**

Architectural Surface Treatment, for concrete barrier, surfaces shall conform to the details shown on the plans and these special provisions.

#### **Surface Texture**

Architectural Surface Treatment shall include surface texture in a random stone pattern applied to both sides of the barrier, to the top of the barrier, and to the ends of the barrier. Texture shall conform to the details shown on the plans and the referee sample and shall extend to the finished grade. The simulated joints between simulated stones shall vary in width and depth, with a minimum width of 5 mm and a maximum width of 20 mm, and a minimum depth of 10 mm and a maximum depth of 25 mm. The maximum surface differential across the projected face of the concrete barrier between adjacent simulated stones shall be 5 mm.

The architectural surface treatment pattern shall have a horizontal repetition of not less than 2.7 meters and shall not repeat vertically.

#### **Coloring**

Architectural Surface Treatment shall include a minimum of five applied colors and sealant. Color shall be concrete stain or concrete paint or approved equal. Sealant shall be as recommended by the manufacturer of the color. Integral color shall be similar to July 1994 Federal Standard #20372. The remaining four colors shall be applied to the surface of the concrete. Four colors shall be similar to Federal Standard Colors 30266, 33578, 20227, and 10266. Surface coloring shall be applied to 90 percent of the architectural treatment surface area and shall be applied during the same work shift that the barrier is constructed. Surface color shall not be applied to the simulated joint lines. The three colors shall be applied to the surface of the concrete in proportions of one third per color. Surface coloring shall be applied in a random appearing pattern to the individual simulated stones with varying application rates to simulate the look of natural stones.

#### **Referee Sample**

Architectural Surface Treatment for the concrete Barrier (Type 60G) shall match the random stone pattern of the referee sample image. Color samples and the referee sample image are available for inspection by bidders at the Caltrans District 07 Office, Landscape Architecture, 100 S. Main Street, Los Angeles, California 90012. Samples are available for inspection Monday through Friday, between the hours of 8:00 AM and 4:00 PM. Call (213) 897-0975 or (213) 897-0509 to arrange inspection time and date.

#### **Test Panels and Test Sections**

Architectural Surface Treatment shall not be placed on the project prior to written approval by the Engineer of the test panels and test sections prepared and submitted by the Contractor. Prior to preparing test panels and sections, the Contractor shall submit to the Engineer for approval architectural drawings showing the pattern and dimensions of the architectural treatment and color chip samples prior to the start of test panels.

Four test samples shall be successfully completed at a location approved by the Engineer. Two 3.0 m by 910 mm by 75 mm test panels of the barrier texture shall be submitted for approval. Each test panel shall be exposed to direct sunlight for a minimum period of 10 working days after color is applied. Two test sections of Type 60G barrier, a minimum of 9 m in length, shall be constructed and finished with the materials, colors, tools, equipment and methods specified in these special provisions and as shown on the plans and in conformance with the approved test panels. If ordered by the Engineer, additional test panels and test sections shall be constructed and finished until the specified finish, texture and color are obtained, as determined by the Engineer. In the event additional test panels or test sections are required by the Engineer, each additional panel or section will be paid for as extra work as provided in Section 4-1.03D of the Standard Specifications.

The final approved test section shall be used as the standard of comparison in determining acceptability of architectural surface treatment and color for concrete barrier surfaces. As ordered by the Engineer, the Contractor shall remove and dispose of the test panels and sections and return the site to its original condition. The Contractor shall provide the Engineer with four liters of each of the final approved colors and sealant.

#### **Measurement and Payment**

Full compensation for Concrete Barrier Architectural Surface Treatment shall be considered as included in the contract price paid per meter for concrete barrier (Type 60G) and no additional compensation will be allowed therefore.

#### **ARCHITECTURAL SURFACE (TEXTURED CONCRETE)**

Architectural Surface (textured concrete) for images on concrete barrier 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 Surface (textured concrete) listed below are required for images on concrete barriers as shown on the plans:

##### **A. Heavy blast texture**

The heavy abrasive blast texture shall be an architectural texture accomplished by abrasive blasting the surface of the concrete to produce a generally uniform color and sandy texture with air and water bubbles in the concrete partially exposed and to the depth of 9 mm as directed by the Engineer. Templates for images shall be 4 gauge spring steel. All templates shall become the property of the State for maintenance and repair of the images at the conclusion of graffiti abatement coating operations. The Contractor shall deliver the steel templates to a nearby storage facility as directed by the Engineer.

The architectural surface (textured concrete) for images shall be constructed to the dimensions, shapes, sequences and locations shown on the plans. Corners at the intersection of plane surfaces shall be sharp and crisp without easing or rounding. A surface finish consisting of concrete stain conforming to Federal Standard 595B Color #30155, shall be applied to each architectural surface (textured concrete) image. The concrete stain shall be a non-fading, permanent chemical stain for exterior, cured concrete surfaces and shall be applied, neutralized and sealed according to manufacturer's instructions. Concrete stain shall not be applied to any surface outside the architectural textured image. A minimum of two coats shall be applied as directed by the Engineer.

#### **Test Panel**

A test panel at least 0.91 m x 0.45 m in size showing an architectural surface (textured concrete) image shall be successfully completed at a location approved by the Engineer before beginning work on architectural textured images. The test panel shall be constructed and finished with the materials, tools, equipment and methods to be used in constructing the architectural texture, including concrete stain.

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

#### **Measurement and Payment**

Full compensation for Architectural Surface (textured concrete) shall be considered as included in the contract price paid per meter for concrete barrier (Type 60G) and no additional compensation will be allowed therefore.

**BID ITEM LIST  
07-117074**

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
41	153218	REMOVE CONCRETE SIDEWALK	M2	6140		
42	153221	REMOVE CONCRETE BARRIER	M	3680		
43	153225	PREPARE CONCRETE BRIDGE DECK SURFACE	M2	703		
44	153229	REMOVE CONCRETE BARRIER (TYPE K)	M	1060		
45	153246	REMOVE CONCRETE (MISCELLANEOUS)	M3	13		
46	155003	CAP INLET	EA	1		
47	156585	REMOVE CRASH CUSHION	EA	2		
48	157555	BRIDGE REMOVAL, LOCATION E	LS	LUMP SUM	LUMP SUM	
49	157556	BRIDGE REMOVAL, LOCATION F	LS	LUMP SUM	LUMP SUM	
50	157557	BRIDGE REMOVAL, LOCATION G	LS	LUMP SUM	LUMP SUM	
51	157558	BRIDGE REMOVAL, LOCATION H	LS	LUMP SUM	LUMP SUM	
52	157561	BRIDGE REMOVAL (PORTION), LOCATION A	LS	LUMP SUM	LUMP SUM	
53	157562	BRIDGE REMOVAL (PORTION), LOCATION B	LS	LUMP SUM	LUMP SUM	
54	157563	BRIDGE REMOVAL (PORTION), LOCATION C	LS	LUMP SUM	LUMP SUM	
55	157564	BRIDGE REMOVAL (PORTION), LOCATION D	LS	LUMP SUM	LUMP SUM	
56 (S)	041391	JACKING SUPERSTRUCTURE (LOCATION C)	LS	LUMP SUM	LUMP SUM	
57 (S)	041392	JACKING SUPERSTRUCTURE (LOCATION D)	LS	LUMP SUM	LUMP SUM	
58	160101	CLEARING AND GRUBBING	LS	LUMP SUM	LUMP SUM	
59	190101	ROADWAY EXCAVATION	M3	49 640		
60	190105	ROADWAY EXCAVATION (TYPE Z-2) (AERIALY DEPOSITED LEAD)	M3	13 000		

**BID ITEM LIST  
07-117074**

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
61	190106	ROADWAY EXCAVATION (TYPE Z-3) (AERIALY DEPOSITED LEAD)	M3	4480		
62	190108	ROADWAY EXCAVATION (TYPE Y-2) (AERIALY DEPOSITED LEAD)	M3	25 500		
63 (S)	190110	LEAD COMPLIANCE PLAN	LS	LUMP SUM	LUMP SUM	
64 (F)	192003	STRUCTURE EXCAVATION (BRIDGE)	M3	1499		
65 (F)	192037	STRUCTURE EXCAVATION (RETAINING WALL)	M3	78		
66 (F)	192050	STRUCTURE EXCAVATION (TIEBACK WALL)	M3	149		
67 (F)	192053	STRUCTURE EXCAVATION (TYPE Z-2) (AERIALY DEPOSITED LEAD)	M3	20 373		
68 (F)	192054	STRUCTURE EXCAVATION (TYPE Z-3) (AERIALY DEPOSITED LEAD)	M3	1287		
69 (F)	192058	STRUCTURE EXCAVATION (TYPE Y-2) (AERIALY DEPOSITED LEAD)	M3	4372		
70 (F)	193003	STRUCTURE BACKFILL (BRIDGE)	M3	10 838		
71 (F)	193013	STRUCTURE BACKFILL (RETAINING WALL)	M3	21 039		
72 (F)	193026	STRUCTURE BACKFILL (TIEBACK WALL)	M3	26		
73 (F)	193030	PERVIOUS BACKFILL MATERIAL	M3	28		
74 (F)	193031	PERVIOUS BACKFILL MATERIAL (RETAINING WALL)	M3	1791		
75	193114	SAND BACKFILL	M3	150		
76 (S)	200001	HIGHWAY PLANTING	LS	LUMP SUM	LUMP SUM	
77 (S)	203016	EROSION CONTROL (TYPE D)	M2	5010		
78 (S)	204031	TRANSPLANT PALM TREE	EA	7		
79 (S)	204096	MAINTAIN EXISTING PLANTED AREAS	LS	LUMP SUM	LUMP SUM	
80 (S)	204099	PLANT ESTABLISHMENT WORK	LS	LUMP SUM	LUMP SUM	

**BID ITEM LIST****07-117074**

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
101 (S)	490655	400 MM CAST-IN-DRILLED-HOLE CONCRETE PILING	M	7530		
102 (S)	490657	600 MM CAST-IN-DRILLED-HOLE CONCRETE PILING	M	4761		
103 (S)	041394	1.372 M CAST-IN-DRILLED-HOLE CONCRETE PILING	M	499		
104 (S)	490665	1.8 M CAST-IN-DRILLED-HOLE CONCRETE PILING	M	227		
105 (S)	500001	PRESTRESSING CAST-IN-PLACE CONCRETE	LS	LUMP SUM	LUMP SUM	
106 (S)	500050	TIEBACK ANCHOR	EA	104		
107 (F)	041395	STRUCTURAL CONCRETE, CIP WALL FACE	M3	119		
108 (F)	510051	STRUCTURAL CONCRETE, BRIDGE FOOTING	M3	1874		
109 (F)	510053	STRUCTURAL CONCRETE, BRIDGE	M3	6713		
110 (F)	510060	STRUCTURAL CONCRETE, RETAINING WALL	M3	7320		
111 (F)	510086	STRUCTURAL CONCRETE, APPROACH SLAB (TYPE N)	M3	753		
112 (F)	510502	MINOR CONCRETE (MINOR STRUCTURE)	M3	96.7		
113 (F)	015541	MINOR CONCRETE (BOX CULVERT)	M3	77.3		
114	510526	MINOR CONCRETE (BACKFILL)	M3	14		
115 (F)	015542	MINOR CONCRETE (HEADWALL)	M3	1.6		
116 (F)	041396	CORRUGATED TEXTURE	M2	128		
117 (F)	041397	PALM TREE BARK TEXTURE	M2	425		
118	511106	DRILL AND BOND DOWEL	M	281		
119 (S-F)	041398	FURNISH PRECAST PRESTRESSED CONCRETE SLAB (TYPE SII) (MOD)	M2	255		
120 (S)	512510	ERECT PRECAST PRESTRESSED CONCRETE DECK UNIT	M2	255		