

**DEPARTMENT OF TRANSPORTATION**  
DIVISION OF ENGINEERING SERVICES  
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Be energy efficient!*

April 28, 2009

03-Col,Pla,Sac-5, 51, 80, 99-Var  
03-0C2814  
SARRA-000C(303)E

Addendum No. 1

Dear Contractor:

This addendum is being issued to the contract for CONSTRUCTION ON STATE HIGHWAY IN COLUSA, PLACER AND SACRAMENTO COUNTIES AT VARIOUS LOCATIONS.

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, May 13, 2009.

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

Project Plan sheets 24 and 32 are revised. Half-sized copies of the revised plans sheets are attached for substitution for the like-number sheets.

In the Special Provisions, Section 3-1.02, "DATA UNIVERSAL NUMBERING SYSTEM (D-U-N-S) NUMBER," and Section 3-1.03, "CONTRACT EXECUTION," are added as follows:

**"3-1.02 DATA UNIVERSAL NUMBERING SYSTEM (D-U-N-S) NUMBER**

For the purpose of complying with the American Recovery and Reinvestment Act of 2009, the successful bidder must provide the Department a D-U-N-S number.

Complete and sign the Data Universal Numbering System (D-U-N-S) Number form included in the contract documents. This form must be submitted with the executed contract.

If your company does not have a D-U-N-S number, you can obtain one by contacting Dun & Bradstreet at:

<http://dnb.com/us/>

If you fail to submit this information with the executed contract, the Department will not approve the contract.

**3-1.03 CONTRACT EXECUTION**

Comply with section titled Data Universal Numbering System (D-U-N-S) Number of these special provisions and Section 3-1.09, "Contract Execution," of the Standard Specifications, except the contract documents must be received by the Office Engineer before the 5th business day after the bidder receives the contract."

In the Special Provisions, Section 10-1.32, "SIGN STRUCTURES," is replaced as attached.

In the Special Provisions, Section 10-3.123, "SUBPANEL," is added as attached.

In the Special Provisions, Section 10-3.126, "TELEPHONE DEMARCATION CABINET," is added as attached.

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In the Special Provisions, Section 10-3.30, "PAYMENT," the following paragraph is added after the third paragraph as follows:

"Full compensation for powder coating telephone demarcation cabinet and subpanels shall be considered as included in the contract lump sum price paid for traffic operations system and no separate payment will be made therefor."

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.

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 confirmed facsimile to all book holders to ensure that each receives it. A copy of this addendum is 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

### 10-1.32 SIGN STRUCTURES

Sign structures and foundations for overhead signs shall conform to the provisions in Section 56-1, "Overhead Sign Structures," of the Standard Specifications, "Steel Structures" of these special provisions and the following requirements.

Before commencing fabrication of sign structures, the Contractor shall submit 2 sets of working drawings to the Engineer in conformance with the provisions in Section 5-1.02, "Plans and Working Drawings," of the Standard Specifications. The working drawings shall include sign panel dimensions, span lengths, post heights, anchorage layouts, proposed splice locations, a snugging and tensioning pattern for anchor bolts and high-strength bolted connections, and details for permanent steel anchor bolt templates. The working drawings shall be supplemented with a written quality control program that includes methods, equipment and personnel necessary to satisfy the requirements specified herein.

Working drawings shall be 22" x 34" or 11" x 17" in size and each drawing and calculation sheet shall include the State assigned designations for the sign structure type and reference as shown on the contract plans, District-County-Route-Post Mile and contract number.

The Engineer shall have 30 days to review the sign structure working drawings after a complete submittal has been received. No fabrication or installation of sign structures shall be performed until the working drawings are approved in writing by the Engineer.

Should the Engineer fail to complete the review within the time allowance and if, in the opinion of the Engineer, the Contractor's controlling operation is delayed or interfered with by reason of the delay in reviewing the sign structure working drawings, the delay will be considered a right of way delay in conformance with the provisions in Section 8-1.09, "Right of Way Delays," of the Standard Specifications.

Steel bolts not designated on the plans as high strength (HS) or stainless steel shall be for general applications and shall conform to the requirements in ASTM Designation: A 307.

A permanent steel template shall be used to maintain the proper anchor bolt spacing.

One top nut, one leveling nut and 2 washers shall be provided for the upper threaded portion of each anchor bolt.

Flatness of surfaces for the following shall conform to the requirements in ASTM Designation: A 6/A 6M:

1. Base plates that are to come in contact with concrete, grout, or washers and leveling nuts
2. Plates in high-strength bolted connections

No holes shall be made in members unless the holes are shown on the plans or are approved in writing by the Engineer.

Longitudinal seam welds shall have 60 percent minimum penetration, except that within 6 inches of circumferential welds, longitudinal seam welds shall be complete joint penetration (CJP) groove welds. In addition, longitudinal seam welds on structures having telescopic pole segment splices shall be CJP groove welds on the female end for a length on each end equal to the designated slip fit splice length plus 6 inches.

Steel members used for overhead sign structures shall receive nondestructive testing (NDT) in conformance with AWS D1.1 and the following:

- 1.

Weld Location	Weld Type	Minimum Required NDT
Splice welds around the perimeter of tubular sections, poles, and arms.	CJP groove weld with backing ring	100 percent UT <sup>a</sup> or RT <sup>b</sup>
Longitudinal seam welds	CJP or PJP <sup>c</sup> groove weld	Random 25 percent MT <sup>d</sup>
Longitudinal seam welds within 6 inches of a circumferential splice.	CJP groove weld	100 percent UT or RT
Welds attaching base plates, flange plates, or pole or mast arm plates, to poles or arm tubes.	CJP groove weld with backing ring and reinforcing fillet	t > 3/16-inch: 100 percent UT and MT t < 3/16-inch: 100 percent MT after root weld pass and final weld pass t = pole or arm thickness
	External (top) fillet weld for socket-type connections	100 percent MT

<sup>a</sup>ultrasonic testing

<sup>b</sup>radiographic testing

<sup>c</sup>partial joint penetration

<sup>d</sup>magnetic particle testing

2. The acceptance and repair criteria for UT of welded joints where any of the members are less than 5/16-inch thick or where tubular sections are less than 13 inches in diameter shall conform to the requirements in AWS D1.1, Section 6.13.3.1. A written procedure approved by the Engineer shall be used when performing this UT. These written procedures shall conform to the requirements in AWS D1.1, Annex K. The acceptance and repair criteria for other welded joints receiving UT shall conform to the requirements in AWS D1.1, Section 6, Table 6.3 for cyclically loaded nontubular connections.
3. The acceptance and repair criteria for radiographic or real time image testing shall conform to the requirements of AWS D1.1 for tensile stress welds.
4. For longitudinal seam welds, the random locations for NDT will be selected by the Engineer. The cover pass shall be ground smooth at the locations to be tested. If repairs are required in a portion of a tested weld, the repaired portion shall receive NDT and additional NDT shall be performed on untested portions of the weld. The additional NDT shall be performed on 25 percent of that longitudinal seam weld. After this additional NDT is performed and if more repairs are required, then that entire longitudinal seam weld shall receive NDT.

Circumferential welds and base plate to post welds may be repaired only one time without written permission from the Engineer.

All ferrous metal parts of tubular sign structures shall be galvanized and, where shown on the plans, shall be powder coated.

### **POWDER COATING**

Galvanized sign structure surfaces shall receive a powder coated finish as shown on the plans and as specified in these special provisions.

#### **Cleaning**

All exposed metal surfaces shall be cleaned and prepared in accordance with the instructions of the powder coating manufacturer.

#### **Painting**

All cleaned surfaces, except the contact and inside surfaces of anchor bolt holes, shall receive a single powder coating consisting of dry polyester powder electrostatically applied to the surface and baked to form a smooth, uniform and durable surface. Each shipment of powder coated material shall be accompanied by a Certificate of Compliance as provided in Section 6-1.07, "Certificates of Compliance," of the Standard Specifications.

Application instructions, manufacturer's descriptive data and such other data as may be requested by the Engineer shall be submitted for approval.

Manufacturer's descriptive data shall include complete description, performance data, and installation instructions for the materials.

The powder shall conform to the following requirements:

Requirement	ASTM Designation	Specification Limits
Adhesion to Galvanized Surface	D 3359B	Minimum - 4B
Pencil Hardness	D 3363	H - 2H
Flexibility	D 522	Pass - 1/8" Mandrel
Impact Resistance	D 2794	Pass - 80 lb <sub>f</sub> -in
Color Stability	G 155, Table X3.1, Cycle 1	22,00 hours, C.I.E. L*a*b System Color Tolerance: DE*ab<5. No more than 20 percent change in 60 degree gloss value.
Salt Spray Resistance	B 117 and D1654	1,500 hours - Rating of 8 or greater

The color shall be green, Federal Standard 595B No. 34108. The total dry film thickness of the powder coating shall not be less than 3 mils.

Three samples, 8" x 8" with finish color, shall be furnished to the Engineer at the Contractor's expense. The samples shall be fabricated by the Contractor and tested at the Contractor's expense in the presence of the Engineer unless otherwise directed. A copy of the test results shall be furnished to the Engineer within 30 days following sample fabrication. There shall be adequate time allowed for the Engineer to review the samples and for the Contractor to correct any deficiencies found without delay in completion of work. The samples shall be used to verify compliance of the powder coating requirements listed herein.

Should the results of any of the tests on the samples fail to comply with these specifications, the powder coating material will be rejected in accordance with the provisions in Section 6-1.04, "Defective Materials," of the Standard Specifications.

#### **PAYMENT**

Full compensation for furnishing anchor bolt templates, for testing of welds, and for powder coating sign structures shall be considered as included in the contract price paid per pound for furnish sign structure, and no additional compensation will be allowed therefor.

### 10-3.123 SUBPANEL

Continuous welding of exterior seams in subpanels is not required.

Subpanels shall be the aluminum type.

Circuit breakers shall be the cable-in/cable-out type, mounted on non-energized clips. All circuit breakers shall be mounted vertically with the up position of the handle being the "ON" position.

The surfaces of subpanels, where shown on the plans, shall be powder coated with a coating that is at least 2 mils thick. The color shall be green, Federal Standard 595B, No. 34108.

The coating shall meet the following performance criteria:

1. Salt Fog Exposure, ASTM Designation B-117, AAMA 2605-98, Procedure A and B.

Aluminum,	2,000 hours exposure
Procedure A	minimum rating number 9
Procedure B	minimum rating number 8

2. Adhesion, ASTM Designation D 3359, Method B.

Rating of	5B
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3. Pencil Hardness, ASTM Designation D3363.

Gouge Hardness	H
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4. Artificial Weathering, ASTM Designation G 154, Cycle 2 in table X2.1.

There shall be no change in appearance of coating in 300 hours of exposure.

The powder coated subpanels shall be treated with a graffiti resistant coating.

Three samples, 8" x 8" with finish color, shall be furnished to the Engineer at the Contractor's expense. The samples shall be fabricated by the Contractor and tested at the Contractor's expense. A copy of the test results shall be furnished to the Engineer within 30 days following sample fabrication and within sufficient time to allow for review by the Engineer and correction by the Contractor of any deficiencies without delaying completion of the work. The samples shall be used to verify compliance of the powder coating requirements listed herein.

**10-3.126 TELEPHONE DEMARCATION CABINET**

Telephone demarcation cabinet shall conform to these special provisions.

The telephone demarcation cabinet shall be the type shown on the plans.

The surfaces of cabinets, where shown on the plans, shall be powder coated with a coating that is at least 2 mils thick.

The color shall be green, Federal Standard 595B, No. 34108.

The coating shall meet the following performance criteria:

1. Salt Fog Exposure, ASTM Designation B-117, AAMA 2605-98, Procedure A and B.

Aluminum,	2,000 hours exposure
Procedure A	minimum rating number 9
Procedure B	minimum rating number 8

2. Adhesion, ASTM Designation D 3359, Method B.

Rating of	5B
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3. Pencil Hardness, ASTM Designation D3363.

Gouge Hardness	H
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4. Artificial Weathering, ASTM Designation G 154, Cycle 2 in table X2.1.

There shall be no change in appearance of coating in 300 hours of exposure.

The powder coated cabinet shall be treated with a graffiti resistant coating.

Three samples, 8" x 8" with finish color, shall be furnished to the Engineer at the Contractor's expense. The samples shall be fabricated by the Contractor and tested at the Contractor's expense. A copy of the test results shall be furnished to the Engineer within 30 days following sample fabrication and within sufficient time to allow for review by the Engineer and correction by the Contractor of any deficiencies without delaying completion of the work. The samples shall be used to verify compliance of the powder coating requirements listed herein.