

**DEPARTMENT OF TRANSPORTATION**  
**DIVISION OF ENGINEERING SERVICES**  
OFFICE ENGINEER, MS 43  
1727 30<sup>TH</sup> STREET  
P.O. BOX 168041  
SACRAMENTO, CA 95816-8041  
PHONE (916) 227-6230  
FAX (916) 227-6214  
TTY (916) 227-8454



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**\*\* WARNING \*\* WARNING \*\* WARNING \*\* WARNING \*\***  
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May 28, 2004

11-SD-15-M35.4/M38.7  
11-080914  
ACIM-015-4(192)21N  
CMSTPL-6211(034)

Addendum No. 8

Dear Contractor:

This addendum is being issued to the contract for construction on State highway in SAN DIEGO COUNTY IN SAN DIEGO FROM CAMINO DEL NORTE UNDERCROSSING TO 0.5 KM NORTH OF RANCHO BERNARDO ROAD 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 June 10, 2004.

This addendum is being issued to revise the Notice to Contractors and Special Provisions, and the Federal Minimum Wages with Modification Number 5 dated 5-21-04.

In the Special Provisions, Section 10-1.16, "PROGRESS SCHEDULE CRITICAL PATH METHOD," which was revised as per Addendum No. 7 dated May 17, 2004, subsection, "DESIGN SEQUENCING," is added after subsection "UPDATE SCHEDULE," as follows:

**"DESIGN SEQUENCING**

The dates specified in Section 1, "Specifications and Plans," of these special provisions, on which the Contractor will be provided the complete design of each project phase, shall be shown as milestones in the baseline schedule, and in subsequent updated and revised schedules.

At the completion of the design for each project phase, the schedule shall be updated showing the actual date the final plans, specifications and estimate of quantities for that phase were provided to the Contractor."

In the Special Provisions, Section 10-1.16A, "SHARED FIELD DATA MANAGEMENT SYSTEM," which was added as per Addendum No. 7 dated May 17, 2004, is revised as attached.

In the Special Provisions, Section 10-1.16B, "ELECTRONIC DAILY DIARY DATA DELIVERY," is added as attached.

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In the Special Provisions, Section 10-1.22, "MAINTAINING TRAFFIC," in paragraph six, tables for RANCHO BERNARDO ROAD UC (WIDEN) and BERNARDO CENTER DR UC (WIDEN AND REPLACE) are revised as follows:

RANCHO BERNARDO ROAD UC (WIDEN)  
 Br. No. 57-0578

	Number	Width	Height
Vehicle Openings	East Bound	10.90 m	5.15 m
	West Bound	13.20 m	5.13 m
Pedestrian Openings	1	1.70	5.13
	Location	Spacing	
Falsework Pavement Lighting	R&L	7 m	

(Width and Height in meters)  
 (R = Right side of traffic. L = Left side of traffic)  
 (C = Centered overhead)

BERNARDO CENTER DR UC (WIDEN & REPLACE)  
 Br. No. 57-0577

	Number	Width	Height
Vehicle Openings	East Bound	6.60 m	5.15 m
	West Bound	9.90 m	5.13 m
Pedestrian Openings	1	1.20	5.13
	Location	Spacing	
Falsework Pavement Lighting	R&L	7 m	

(Width and Height in meters)  
 (R = Right side of traffic. L = Left side of traffic)  
 (C = Centered overhead)

In the Special Provisions, Section 10-1.52, "CONCRETE PAVEMENT," subsection, "INSTALLING TIE BARS," the paragraph which was added after the first paragraph as per Addendum No. 6 dated May 7, 2004, is deleted as follows:

"Tie bars shall not be installed in the PCC pavement for Managed Lanes SD-15M Line. All other tie bars shall be installed as shown on the plans."

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To Proposal and Contract book holders:

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

Submit bids in the Proposal and Contract 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 and the modified wage rates are available for the contractor's use on the Internet Site:

**[http://www.dot.ca.gov/hq/esc/oe/weekly\\_ads/addendum\\_page.html](http://www.dot.ca.gov/hq/esc/oe/weekly_ads/addendum_page.html)**

If you are not a Proposal and Contract 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

Attachments

#### **10-1.16A SHARED FIELD DATA MANAGEMENT SYSTEM**

The Contractor shall provide and maintain a complete computer system (hardware and software) for the State's exclusive possession and use, specifically capable of providing a Shared Field Data Management System for the Contractor to electronically submit and track certified payroll records, daily diary data delivery and joint tentative agreements for processing of extra work billing.

Attention is directed to Section 5-1.24, "Certified Payroll Records Submittal," Section 10-1.16B, "Electronic Daily Diary Data Delivery," and Section 5-1.23, "Internet Daily Extra Work Report," of these special provisions.

The computer hardware and software furnished shall be used by or be compatible with that used by the Contractor.

The operating system shall have a centralized storage of all project information and readily incorporate existing standard forms used by the State construction administration process. The system shall have the capability of providing partitions/firewalls or other technologies to define the levels of access rights.

The Contractor shall use the Shared Field Data Management System for electronic submittal of certified payroll records, daily diary data delivery and joint tentative agreements for extra work billing which may include, but are not limited to, monthly CPM scheduling, submittals, transmittals, monthly materials on hand, request for testing, Request for Information (RFI), letters, and memorandums created and received during the life of the project.

The Shared Field Data Management System shall have all project information available including but not limited to the Special Provisions, Standard Specifications, Standard Plans, Materials Information, Contract Plans and shall be updated with the latest Phase of plan changes and contract change order plan changes, Prevailing Wage Rates, latest Labor Surcharge and Equipment Rental Rates, contractor and sub-contractor equipment, labor rates for all contractor and sub-contractor personnel.

Attention is directed to "Payments" of Section 5 of these special provisions.

#### **COMPUTER SYSTEM**

The Contractor shall provide and maintain a complete computer server system or hosted server, data management software, portable computer hardware and wireless Internet communication service necessary for real-time access and submittal electronically to the Shared Field Data Management System. The system shall be accessible to the Contractor, State administrative personnel and sub-contractors through the Internet.

#### **ACCESS REQUIREMENTS**

The system shall be capable of defining the distribution for "full access" and "read only access" rights as defined prior to submittal of any information. All user accounts must be password protected. User accounts shall be provided for Contractor staff and assignees such as subcontractors as determined by the Contractor. State Staff such as the Resident Engineer and Labor Compliance staff shall have "read only access" to all submittals of certified payrolls for labor compliance verification. Contractor's representative including subcontractors shall have "read only access" to the joint tentative agreement information and "full access" for approval by one representative of the Contractor and one representative of the State with "full access" for submittal of the joint tentative agreement for processing extra work billing.

#### **Operational Recovery Requirements**

The system shall at a minimum, incrementally back up all project data on a daily basis and perform a full backup of all data on a weekly basis. Backup media shall be stored off-site on a weekly basis and the weekly full backups must be kept for until 30 days after the acceptance of the final estimate. The system must normally be available for continual use. In the instance of a hardware problem, the Contractor must be able to return the system to operation within 2 working days.

Four (4) archived backup copies of the Contractor's data and shared data shall be provided to the Contractor, and four (4) archived backup copies of the State's data and shared data shall be provided to the State at the completion of all work requiring input into the Shared Field Data Management System.

## **SOFTWARE REQUIREMENTS**

Provide defined access to all users of project information including but not limited to the Special Provisions, Standard Specifications, Standard Plans, Materials Information, Contract Plans and shall be updated with the latest Phase of plan changes and contract change order plan changes, Prevailing Wage Rates, latest Labor Surcharge and Equipment Rental Rates, contractor and sub-contractor equipment and personnel including labor rates for all contractor and sub-contractor personnel.

Provide automated routing or notification to all users of updates to the project information such as but not limited to updates of the latest Phase of plan changes, contract change order plan changes.

Provide automated routing of certified payrolls to the Resident Engineer and State Labor Compliance and provide notification to the originator of the receipt of the payrolls.

Provide automated routing of daily diary data for use by the Resident Engineer and staff for input of joint tentative agreements and daily diaries, information may be updated by submitted certified payroll information for personnel, labor rate and classification changes.

Provide ability to compare daily diaries, joint tentative agreements and labor compliance records for processing extra work billing.

Provide issue tracking and logging capability where the Contractor or the State can determine the status and resolution of issues. Provide the ability to search for words or phrases stored in text anywhere in the database. Provide the ability to search for records by a range of dates (beginning and end).

The system shall be capable of allowing access to thirty (30) concurrent users. Any licenses or annual maintenance renewal fees shall be provided until 30 days after the final estimate has been accepted by the Contractor. The software to implement the Shared Field Data Management System must be a commercially available software package.

## **NETWORK COPIER OR SERVICE**

The network copier shall be a multifunction, Adobe Postscript Level 3 or compatible, copier/scanner/laser printer with a minimum of 128 megabytes RAM,. The laser printer shall print in color at 24 dots per millimeter (600 dots per inch) resolution. The scanner shall have a minimum resolution of 24 dots per millimeter x 24 dots per millimeter (600 dots per inch x 600 dots per inch), a minimum of 24 bit color depth, scan color or black and white documents at a minimum of 20 pages per minute and shall be capable of scanning images to the TIF (tagged image format) and PDF (Adobe Portable Document Format) file formats. The scanner shall have the ability for the user to name the scanned documents using the network copier keypad. The network copier shall be able to scan, copy and print in letter, legal and 280 mm x 432 mm (11" x 17") paper sizes and shall have the capability of being connected to a network with 10/100 Mbit Ethernet. Or an equivalent copier service to copy and have the documents electronically available within 2 working days after the documents are provided.

## **PORTABLE COMPUTER HARDWARE REQUIREMENTS**

The contractor shall provide for the State's exclusive possession and use thirty (30) complete portable computers with wireless capabilities. The minimum computer to be furnished shall be complete with keyboard, mouse, monitor, installed car/truck mount or stand, installed car power adapter or power inverter. The system shall be from those identified by the Gartner Group as Tier 1 and shall conform to the following requirements:

- A. Latest industry-available Intel Pentium, with rugged casing and waterproof keyboard or equal.
- B. Latest computer operating system software compatible with the selected processing unit, for Windows 2000 with 15 client licenses or equal.
- C. Minimum 40 gigabyte hard disk drive, and 2 gigabytes of Random Access Memory (RAM).
- D. A 430 mm (14") minimum, color monitor capable of at least 1,024 x 768 pixels or equal.
- E. General software shall be the latest versions of Microsoft Office Professional, McAfee VirusScan virus protection or equivalent and tape backup software. The general software shall be compatible with the hardware provided.
- F. Be compatible with and meet the Shared Field Data Management System vendor's minimum recommendation for use as a client system.
- G. Provide a 10 Base T NIC card
- H. Provide wireless connectivity utilizing industry standard GPRS technology or Sprint 3G.

## **PRE-CONSTRUCTION CONFERENCE**

The Contractor shall schedule and the Engineer will conduct a pre-construction conference with the Contractor's project manager within 5 days of the approval of the contract. At this meeting the Engineer will review the requirements of this section of the special provisions with the Contractor.

The Contractor shall be prepared to discuss the proposed work plan and methodology for the Shared Field Data Management System, that comply with the requirements of these special provisions.

## **DELIVERY AND SETUP**

Attention is directed to "Pre-construction Conference" and "Training" of these special provisions.

Before delivery and setup of the computer system, the Contractor shall submit, for approval by the Engineer, a detailed list of the computer hardware and software the Contractor proposes to furnish. The Engineer will have 3 days to review and approve the Contractor's proposal.

Upon approval by the Engineer, the Contractor or his approved representative shall furnish, install, set up, maintain, and repair the computer system ready-for-use, and network copier service or provide network copier supplies (excluding paper) as necessary during the course of the project at a location determined by the Engineer. The Shared Field Data Management System technical support and repair shall be performed by a 3<sup>rd</sup> party vendor selected by the Contractor. The hardware and software shall be installed and ready for use 15 days prior to the first chargeable working day on the contract. Software maintenance, including licensing and other fees shall be maintained for the duration of the project until 30 days after receiving of the final estimate by the Contractor.

The Contractor shall instruct and assist the Engineer in the use of the hardware and software. Hardware repairs shall be made within 48 hours of notification by the Engineer, or replacement equipment shall be furnished and installed by the Contractor until repairs have been completed.

Computer hardware and software furnished shall remain the property of the Contractor and shall not be removed until 30 days after the Contractor has received the final estimate, or as authorized by the Engineer.

The Contractor shall furnish software and all original software instruction manuals to the Engineer. The State will compensate the Contractor in conformance with the provisions in Section 4-1.03, "Extra Work," of the Standard Specifications for replacement of software which is damaged, lost or stolen after delivery to the Engineer.

## **TRAINING**

Attention is directed to "Pre-construction Conference" and "Delivery and Setup" of these special provisions.

After approval of the Shared Field Data Management System by the Engineer and prior to the first chargeable working day on the contract, the Contractor shall provide an initial 8 hour training session or as recommended by the vender for initial setup of the system.

The Contractor shall provide a total of 10 training sessions, at 4 hours per session during the duration of the contract. The Contractor can expect subsequent training sessions to be distributed throughout the duration of the contract until the total number of sessions have been completed. Each training session shall accommodate up to 8 Stae employees. Training sessions shall be at a location, date and time acceptable to the Engineer.

The Trainer shall be provided by the Vendor and approved by the Engineer.

The Shared Field Data Management System shall also provide a method of exporting all data to a relational database, keeping all the existing relationships intact. This export function should be accessible by the user and should be able to be performed at any time by the user.

## **COST BREAK-DOWN**

The Contractor shall include a Shared Field Data Management System Cost Break-Down which itemizes the contract lump sum for the Shared Field Data Management System. The Contractor shall use the Shared Field Data Management System Cost Break-Down provided in this section as the basis for the cost break-down. The Contractor shall use the Shared Field Data Management System Cost Break-Down to identify items, quantities and values for the Shared Field Data Management System. The Contractor shall be responsible for the accuracy of the quantities and values used in the cost break-down. Partial payment for the item of Shared Field Data Management System will not be made until the Shared Field Data Management System Cost Break-Down is approved by the Engineer.

The sum of the amounts for the items of work listed in the Shared Field Data Management System Cost Break-Down shall be equal to the contract lump sum price bid for Shared Field Data Management System. Overhead and profit, except for time-related overhead, shall be included in each individual item listed in the cost break-down.

**SHARED FIELD DATA MANAGEMENT SYSTEM COST BREAK-DOWN**  
**Contract No. 11-080914**

ITEM	ITEM DESCRIPTION	UNIT	ESTIMATED QUANTITY	VALUE	AMOUNT
SD-1	Computer Server System for Shared Field Data Management System	EA	1		
SD-2	Initial Set-up of Project including initial training	EA	1		
NC-1	Network copier or service	EA	1		
SD-3	Computer Hardware for Shared Field Data Management System	EA	30		
SD-4	Computer Software for Shared Field Data Management System	EA	30		
SD-5	Software Technical support for Server/Client for Shared Field Data Management System	HR	300		
SD-6	Hardware maintenance for Shared Field Data Management System	HR	150		
SD-7	Software licenses through contract duration	EA	30		
TR-1	Computer Software Training Sessions– 4 hour sessions	EA	10		

**TOTAL** \_\_\_\_\_

The approved cost break-down will be used to determine partial payments during the progress of the work and as the basis for calculating the adjustment in compensation for the item of Shared Field Data Management System due to increases or decreases of quantities ordered by the Engineer. When an ordered change increases or decreases the quantities of an approved cost break-down item, the adjustment in compensation will be determined in the same manner specified for increases and decreases in the quantity of a contract item of work in conformance with the provisions in Section 4-1.03B, "Increased or Decreased Quantities," of the Standard Specifications. If an ordered change requires a new item which is not on the approved cost break-down, the adjustment in compensation will be determined in the same manner specified for extra work in conformance with Section 4-1.03D, "Extra Work," of the Standard Specifications.

If requested by the Contractor and approved by the Engineer, changes to the Shared Field Data Management System listed in the approved cost break-down, including addition of new computer hardware and software, will be allowed. If the requested changes result in a net cost increase to the lump sum price for Shared Field Data Management System, an adjustment in compensation will be made without change to the Shared Field Data Management System item. The net cost increase to the Shared Field Data Management System item will be paid for as extra work as provided in Section 4-1.03D, "Extra Work," of the Standard Specifications.

### **PAYMENT**

The contract lump sum price paid for shared field data management system shall include full compensation for furnishing all labor, material, tools, equipment, and incidentals, including computer software, and for doing all the work involved in providing and maintaining the shared field data management system, and instructing and assisting the Engineer in the use of computer software, as specified in the Standard Specifications and these special provisions, and as directed by the Engineer.

If the Contractor fails to complete any of the work or providing and maintaining the Shared Field Data Management System required by this section, the Engineer will make an adjustment in compensation in conformance with the provisions in Section 4-1.03C, "Changes in Character of Work," of the Standard Specifications for the work not performed. Adjustments in compensation for Shared Field Data Management System will not be made for any increased or decreased work ordered by the Engineer in furnishing Shared Field Data Management System.

#### **10-1.16B ELECTRONIC DAILY DIARY DATA DELIVERY**

The Contractor shall submit electronically using the Shared Field Data Management System information on each piece of equipment and its identifying number, type, make, model and rate code in accordance with the Department of Transportation publication entitled "Labor Surcharge and Equipment Rental Rate" and the names, labor rates and work classifications for all field personnel employed by the Contractor and all subcontractors in connection with the project.

Attention is directed to Sections 5-1.10, "Equipment and Plants," and 7-1.01A(3), "Payroll Records," of the Standard Specifications, and Section 10-1.16A, "Shared Field Data Management System," Section 10-1.16B, "Certified Payroll Records Submittal," and Section 5-1.23, "Internet Daily Extra Work Report," of these special provisions.

The personnel information submitted to the Shared Field Data Management System for daily diaries and joint tentative agreements shall be used for processing extra work billing and will not relieve the Contractor and subcontractors from all the payroll records requirements as required by Section 7-1.01A(3), "Payroll Records," of the Standard Specifications and Section 10-1.16B, "Certified Payroll Records Submittal," of these special provisions.

The Contractor shall provide the initial equipment and personnel information as specified for delivery and setup of the Shared Field Data Management System 15 days prior to the first chargeable working day on the contract. New or revised information shall be submitted weekly through the life of the project.

Full compensation for submitting daily diary data directly using the Shared Field Data Management System shall be included in the various contract items involved, and no separate payment will be made therefor.