

DEPARTMENT OF TRANSPORTATION
DIVISION OF ENGINEERING SERVICES
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*Flex your power!
Be energy efficient!*

May 25, 2010

04-SM,Ala-84-R28.8/ R30.2, R0.0/ R0.8
04-1A5224

Addendum No. 3

Dear Contractor:

This addendum is being issued to the contract for CONSTRUCTION ON STATE HIGHWAY IN SAN MATEO AND ALAMEDA COUNTIES IN MENLO PARK AND FREMONT FROM 0.3 MILE WEST TO 0.5 MILE EAST OF THE DUMBARTON 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 Tuesday, June 15, 2010.

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

Project Plan Sheets 64, 65, 66, 67, 69, 72, 73, 74, 75, 191, 192, 193, 213 and 259 are revised. Copies of the revised sheets are attached for substitution for the like-numbered sheets.

In the NOTICE TO BIDDERS, the twelfth paragraph is revised to read as follows:

"The estimated cost of the project is \$73,100,000."

In the Special Provisions, Section 5-1.10, "PAYMENTS," in the first paragraph, the following item is added:

"O. Document Management System"

In the Special Provisions, Section 10-1.011, "SAFETY AND HEALTH MANAGER," Section 10-1.012, "DOCUMENT MANGEMENT SYSTEM," and Section 10-1.013, "ELECTRONIC DATA DELIVERY FOR DAILY DIARY," are added as attached.

In the Special Provisions, Section 10-1.03, "WATER POLLUTION CONTROL," is revised as attached.

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In the Special Provisions, Section 10-1.22, "PROGRESS SCHEDULE (CRITICAL PATH METHOD)," subsection "PAYMENT," the second and third paragraphs are revised as follows:

"The Department will retain an amount equal to 25 percent of the estimated value of the work performed during the first estimate period in which you fail to submit a baseline or updated CPM schedule conforming to the requirements of this section, as determined by the Engineer. Thereafter, on subsequent successive estimate periods the percentage the Department will retain will be increased at the rate of 25 percent per estimate period in which acceptable CPM progress schedules have not been submitted to the Engineer. Retention for failure to submit acceptable CPM progress schedules shall be additional to all other retention provided for in the contract. The retention for failure to submit acceptable CPM progress schedules will be released for payment on the next monthly estimate for partial payment following the date that acceptable CPM progress schedules are submitted to the Engineer.

The adjustment provisions in Section 4-1.03, "Changes," of the Standard Specifications, shall not apply to the item of progress schedule (critical path method). Adjustments in compensation for the project schedule will not be made for any increased or decreased work ordered by the Engineer in furnishing project schedules."

In the Special Provisions, Section 10-1.27, "MAINTAINING TRAFFIC," the first sentence of the eighteenth paragraph is revised as follows:

"Freeways may be closed only if signed for closing 10 days in advance."

In the Special Provisions, Section 10-1.36, "EXISTING HIGHWAY FACILITIES," subsection "STATE OWNED CATWALKS," in the fifth paragraph, the second sentence is revised as follows:

"This will include replacing the metal grating for the catwalk or catwalk structure."

In the Special Provisions, Section 10-1.36, "EXISTING HIGHWAY FACILITIES," subsection "TEMPORARY STEEL DECK PLATES," is added before subsection "BRIDGE REMOVAL."

In the Special Provisions, Section 10-1.36, "EXISTING HIGHWAY FACILITIES," subsection "RECONSTRUCT FENDER," is revised as attached.

In the Special Provisions, Section 10-1.54, "CORE AND BOND DOWELS," is deleted.

In the Special Provisions, Section 10-1.59, "RAISE BRIDGE," subsection "GENERAL," in the first paragraph, the following sentence is added after the first sentence:

"Jacking sequence shall not begin at Pier 23 or Pier 24."

In the Bid book, in the "Bid Item List," Items 166, 167 and 168 are added and Item 165 is deleted as attached.

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To Bid book holders:

Replace page 11 of the "Bid Item List" in the Bid book with the attached revised page 11 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 and attachments are available for the Contractors' download on the Web site:

http://www.dot.ca.gov/hq/esc/oe/project_ads_addenda/04/04-1A5224

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

IGNACIO SANCHEZ DEL REAL
Acting Office Chief
Office of Plans, Specifications & Estimates
Office Engineer
Division of Engineering Services

Attachments

10-1.011 SAFETY AND HEALTH MANAGER

Comply with Section 7-1.06, "Safety and Health Provisions," of the Standard Specifications and other safety and health requirements specified elsewhere in these special provisions.

Within 20 days after contract approval, designate in writing a dedicated full time Safety and Health Manger (SHM). Submit a statement of qualifications describing the training, work history, and expertise of SHM candidate who shall:

1. Have knowledge in the area of safety and health procedures for all types of work being performed on this contract.
2. Be up to date on Caltrans, Cal OSHA, OSHA and any other applicable requirements, laws and regulations.

The Engineer shall have 10 days to review and approve HSM candidate.

At the job site, SHM must:

1. Continuously review construction work plan and oversee construction operations for compliance with safety and health requirements.
2. Document compliance with the Safety and Health requirements for all ongoing construction activities and corrective measures taken to ensure compliance.
3. Take immediate corrective measures to ensure compliance.
4. Have authority to mobilize construction crews.
5. Prepare and submit Safety Reports (SR) as described below.
6. Respond to OSHA reports submitted to the State as part of the OSHA/Caltrans Partnership if such partnership is established during the Contract.

Safety Reports (SR) shall include:

1. Documentation of daily work activity. These reports shall be submitted weekly to cover work of the preceding week.
2. Documentation of safety deficiencies whenever observed and corrective actions taken. These report must be submitted within 24 hours of observed deficiency.
3. Documentation of meetings, conversations, and other communications related to safety issues. These reports shall be submitted weekly for the preceding week activities.
4. SHM's name, date, and weather conditions.

Submit SR to the Engineer through the Contractor's onsite construction manager.

Full compensation for conforming to the requirements of this section shall be considered as included in the contract prices paid per the various items of work involved and no additional compensation will be allowed therefor.

10-1.012 DOCUMENT MANAGEMENT SYSTEM

The Contractor shall provide two complete computer systems (latest hardware and software), including one system for the State's exclusive possession and use, specifically capable of running a Document Management System (DMS) that is the latest version of "Project Management by Integral Vision (PMIV)" to facilitate efficient document management and control.

The DMS (latest hardware and software) shall be obtained from the following vendor:

Integral Vision
3176 Lucas Drive, Suite 200
Lafayette, CA 94549
Telephone: (925) 284-8302 - Fax: (925) 284-1905
info@integralvision.com

Arrangements have been made to ensure that any successful bidder can obtain the DMS from the vendor. The system components, as specified in the vendor's cost break down, shall include the following:

For the Department:

1. One computer system or supplemental equipment compatible with the existing Department system as required to support the PMIV software as approved by the Engineer,
2. Fifty software licenses with two annual maintenance renewals,
3. Six flash drives compatible to the PMIV software,
4. Delivery, setup and maintenance of the computer system and weekly off-site backup,
5. Five training sessions,

For the Contractor:

1. One computer system compatible with PMIV software as approved by the Engineer,
2. Twenty software licenses with two annual maintenance renewals. Any unused licenses/renewals will be available to the Department,
3. Delivery, setup, and maintenance of the computer system,
4. Five training sessions,

The price quoted by the vendor for two computer systems, complete with the above listed components, is \$ 386,236.70 including sales tax. The Contractor will be required to enter into a service agreement and an end user license agreement with Integral Vision. The Contractor will also be required to enter into a sublicense agreement with the Department. The sublicense agreement shall be acceptable to both the Department and Integral Vision.

The above price will be firm for orders placed on or before August 29, 2010, provided delivery is accepted within 90 days after the order is placed.

The Contractor shall use the Document Management System for all documents created and received during the life of the project, which may include, but are not limited to, submittals, transmittals, shop drawings and calculations, Request for Information (RFI), letters, memorandums and plan sheets. The use of the document management system is in addition to the requirements specified in "Working Drawings," of these special provisions.

Attention is directed to Section 5-1.10 "Payments" of these special provisions, regarding partial payments for Document Management System.

PRE-CONSTRUCTION CONFERENCE

The Contractor shall schedule a pre-construction conference with the Engineer and the Contractor's project manager within 5 days of the approval of the contract. At this meeting the Contractor and the vendor shall be prepared to discuss the delivery, setup, and maintenance plan for the DMS.

DELIVERY, SETUP, AND MAINTENANCE

Upon approval of the proposed delivery, setup, and maintenance plan by the Engineer, the Contractor, through the vendor, shall furnish, install, set up, and maintain the computer system ready-for-use. The hardware and software shall be installed and ready for use on the first working day of the contract. Hardware and software maintenance, including licensing and other fees shall be maintained for the duration of the project until 30 days after receiving the proposed final estimate by the Contractor. Repairs shall be made within 48 hours of notification to the vendor, under normal use of the equipment. Replacement equipment shall be furnished and installed by the vendor, until repairs have been completed. Any misuse of the equipment will void the maintenance by the vendor.

Computer hardware and software furnished shall remain the property of the vendor and shall not be removed until 30 days after the Contractor has received the proposed final estimate.

The Contractor, through the vendor, shall furnish software and all original software instruction manuals to the Engineer.

TRAINING

After approval of the Document Management System by the Engineer and prior to the first working day of the contract, the Contractor, through the vendor, shall provide an initial 8-hour training session to the Department in the use of the hardware and software. All training and the session trainer shall be provided by the Contractor, through the vendor.

The Contractor, through the vendor, 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 project until the total number of sessions has been completed.

Each training session shall include accommodation for up to 15 DMS users. Training sessions shall be at a location, date and time acceptable to the Engineer or the Contractor.

DATA DELIVERY REQUIREMENTS

All data shall be delivered to the Engineer electronically on flash drives provided by the Contractor, through the vendor, and shall be compatible with the DMS hardware and software and with general hardware running the latest Microsoft Windows operating system utilized by the Department. The electronic files shall conform to the following requirements:

- A. The flash drive shall contain electronic copies of the documents in searchable Adobe Portable Document Format (PDF). All documents transmitted by flash drive shall be created by one of two methods:
 1. Searchable PDF documents shall be created from the original, native format of the document.
 2. Any non-electronic documents shall be scanned to their original size in a PDF format and shall be made searchable using OCR (Optical Character Recognition) software.
- B. The minimum resolution for a scanned electronic PDF shall be 300 dots per inch and the minimum color depth shall be 256 colors.
- C. Each plan sheet or shop drawing shall consist of one electronic PDF file. The original native format of the drawing shall be converted to a searchable PDF format.

The Document Management System shall also provide a method of exporting all data to the relational database, Microsoft Access, 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.

SCHEDULE OF VALUES

The Contractor shall submit, for approval by the Engineer, a schedule of values detailing the cost break down of the contract lump sum item for Document Management System.

The schedule of values shall include the vendor's cost break down and reflect the items, work, quantities and costs required to furnish, and maintain the DMS for the duration of the project until 30 days after the Contractor has received the proposed final estimate. The Contractor shall be responsible for the accuracy of the quantities and cost used in the schedule of values. Partial payments for the item of Document Management System will not be made until the schedule of values is approved by the Engineer.

The approved schedule of values 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 Document 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 accordance with vendor's cost break down and the provisions in Section 4-1.03, "Changes," of the Standard Specifications. For purposes of extra work the vendor shall be considered a specialist as provided for in Section 9-1.03B, "Work Performed by Special Forces or Other Special Services," of the Standard Specifications, except that 10 percent in lieu of 15 percent will be added to the specialist invoice price. If an ordered change requires a new item which is not on the approved schedule of values, the adjustment in compensation will be determined in the same manner specified for extra work in conformance with Section 4-1.03D, "Extra Work," and Section 9-1.03B, "Work Performed by Special Forces or Other Special Services," of the Standard Specifications. If requested by the Contractor and approved by the Engineer, changes to the DMS listed in the approved schedule of values, including addition of new computer hardware and software, will be allowed. The net cost increase to the item of Document Management System will be paid for as extra work as provided in Section 4-1.03D, "Extra Work," and Section 9-1.03B, "Work Performed by Special Forces or Other Special Services," of the Standard Specifications.

If requested by the Contractor and approved by the Engineer, changes to the DMS listed in the approved schedule of values, including addition of new computer hardware and software, will be allowed. The net cost increase to the item of Document Management System 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 Document Management System shall include full compensation for furnishing all labor, material, tools, equipment, and incidentals, and for doing all the work involved in providing and maintaining the Document Management System, as specified in the Standard Specifications and these special provisions.

The contract lump sum bid price paid for Document Management System shall be made according to the approved schedule of values.

The Department will retain an amount equal to \$500,000 for each estimate period in which the Contractor fails to provide the Document Management System or maintain the Document Management System conforming to the requirements of these special provisions, as determined by the Engineer. Retentions held in conformance with this section shall be in addition to all other retentions provided for in the contract. The retention for failure to provide or maintain an acceptable Document Management System will be released for payment on the next monthly estimate for partial payment following the date that an acceptable Document Management System has been provided or maintained. Upon completion of all contract work, any remaining withheld funds associated with the Document Management System will be released for payment. No interest will be due the Contractor on withheld amounts.

If the Contractor fails to complete any of the work in providing and maintaining the Document Management System required by this section, the Engineer shall 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 Document Management System will not be made for any increased or decreased work ordered by the Engineer in furnishing Document Management System.

10-1.013 ELECTRONIC DATA DELIVERY FOR DAILY DIARY

Attention is directed to Sections 5-1.10, "Equipment and Plants," and 7-1.01A(3), "Payroll Records," of the Standard Specifications, and these special provisions.

The Contractor shall submit to the Engineer a list of 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" which is in effect on the date the work is performed, and the names, labor rates and work classifications for all field personnel employed by the Contractor and all subcontractors in connection with the public work, together with such additional information as is identified below. This information shall be updated and submitted to the Engineer weekly through the life of the project.

Requirements of this section do not relieve the Contractor and subcontractors from the payroll records requirements of Section 7-1.01A(3), "Payroll Records," of the Standard Specifications.

The Contractor shall provide the initial personnel and equipment information not later than 11 days after the contract award for its own personnel and equipment, and not later than 5 days before start of work by any subcontractor for the labor and equipment data of that subcontractor.

The minimum data to be furnished shall comply with the following specifications:

DATA CONTENT REQUIREMENTS

- A. The Contractor shall provide the following basic information for itself and for each subcontractor that will be used on the contract:

Caltrans contract ID	Alphanumeric; up to 15 characters.
Company name.	Alphanumeric; up to 30 characters.
Federal tax ID	Alphanumeric; up to 10 characters.
State contractor license	Alphanumeric; up to 20 characters.
Company type (prime or sub)	Alphanumeric; up to 10 characters.
Address (line 1).	Alphanumeric; up to 30 characters.
Address (line 2).	Alphanumeric; up to 30 characters.
Address (city).	Alphanumeric; up to 30 chars.
Address (2-letter state code).	Alphanumeric; up to 2 characters.
Address (zip code)	Alphanumeric; up to 14 characters.
Contact First Name.	Alphanumeric; up to 15 characters
Contact Last Name	Alphanumeric; up to 20 characters
Telephone number (with area code).	Alphanumeric; up to 20 characters.
Company code: short company name.	Alphanumeric; up to 10 characters.
Type of work (Department-supplied codes)	Alphanumeric; up to 30 characters
DBE status (Department-supplied codes)	Alphanumeric; up to 20 characters.
Ethnicity for DBE status (Department-supplied codes).	Alphanumeric; up to 20 characters.
List of laborers to be used on this contract (details specified below).	
List of equipment to be used on this contract (details specified below).	

For example, one such set of information for a company might be:

04-072359
 XYZ CONSTRUCTION, INC.
 94-2991040
 AL1649T
 SUB
 1240 9TH STREET
 SUITE 600
 OAKLAND
 CA
 94612
 JOHN
 SMITH
 (510) 834-9999
 XYZ
 PAVING
 MBE
 BLACK

B. The Contractor shall provide the following information for each laborer who will be used on the contract:

Caltrans contract ID	Alphanumeric; up to 15 characters.
Company code (as defined above).	Alphanumeric; up to 10 characters.
Employee ID	Alphanumeric; up to 10 characters.
Last name.	Alphanumeric; up to 20 characters.
First name.	Alphanumeric; up to 15 characters.
Middle name.	Alphanumeric; up to 15 characters.
Suffix	Alphanumeric; up to 15 characters
Labor trade (Department-provided codes).	Alphanumeric; up to 10 characters.
Labor classification (Department-provided codes).	Alphanumeric; up to 10 characters.
Regular hourly rate.	Alphanumeric; up to (6,2)
Overtime hourly rate.	Alphanumeric; up to (6,2)
Doubletime hourly rate	Alphanumeric; up to (6,2)
Standby hourly rate.	Alphanumeric; up to (6,2)
Ethnicity (Department-provided codes).	Alphanumeric; up to 20 characters.
Gender.	Alphanumeric; up to 1 characters.

For example, one such set of information might be:

04-072359
 XYZ
 1249
 GONZALEZ
 HECTOR
 VINCENT
 JR.
 OPR
 JNY
 12.50
 18.75
 25.00
 0.00
 HISPANIC
 M

C. The Contractor shall provide the following information for each piece of equipment that will be used on the contract:

Caltrans contract ID	Alphanumeric; up to 15 characters.
Company code (as defined above).	Alphanumeric; up to 10 characters.
Company's equipment ID number.	Alphanumeric; up to 10 characters.
Company's equipment description.	Alphanumeric; up to 60 characters.
Equipment type (from Department ratebook).	Alphanumeric; up to 60 characters.
Equipment make (from Department ratebook).	Alphanumeric; up to 60 characters.
Equipment model (from Department ratebook).	Alphanumeric; up to 60 characters.
Equipment rate code (from Department ratebook).	Alphanumeric; up to 10 characters
Regular hourly rate.	Alphanumeric; up to (6,2)
Overtime hourly rate.	Alphanumeric; up to (6,2)
Standby hourly rate	Alphanumeric; up to (6,2)
Idle hourly rate.	Alphanumeric; up to (6,2)
Rental flag.	Alphanumeric; up to 1 character.

For example, one such set of information might be:

04-072359
 XYZ
 B043
 CAT TRACTOR D-6C
 TRACC
 CAT
 D-6C
 3645
 75.00
 75.00
 0.00
 0.00
 N

DATA DELIVERY REQUIREMENTS

- A. All data described in "Data Requirements" of this section shall be delivered to the Department electronically, on electronic media compatible with the Microsoft Windows operating system. The Contractor shall provide a weekly disk and hard copy of the required correct updated personnel and equipment information for the Contractor and all the subcontractors and verified correct by the Engineer.
- B. Data of each type described in the previous section (contractor, labor, and equipment information) shall be delivered separately, each type in one or more files on electronic media. Any given file may contain information from one contractor or from multiple contractors, but only one type of data (contractor, labor, or equipment information).
- C. The file format for all files delivered to Caltrans shall be standard comma-delimited, plain text files. This type of file (often called "CSV") is the most standard type for interchange of formatted data; it can be created and read by all desktop spreadsheet and desktop database applications. Characteristics of this type of file are:
 1. All data is in the form of plain ASCII characters.
 2. Each row of data (company, person, equipment) is delimited by a carriage return character.
 3. Within rows, each column (field) of data is delimited by a comma character.
- D. For every one type of file, columns (fields) must be in the order specified under "Data Requirements", above. All columns (fields) described under "Data Requirements" must be present for all rows, even if some column (field) values are empty. The first row of each file must contain column headers (in plain text).

- E. Column (field) contents shall conform to the data type and length requirements described in the "Data Requirement" section, above. In addition, column (field) data must conform to the following restrictions:
1. All data shall be uppercase.
 2. Company type shall be either "PRIME" or "SUB".
 3. Labor trade and classification codes must conform to a list of standard codes that will be supplied by Department.
 4. Contractor type of work codes and DBE status codes must conform to a list of standard codes that will be supplied by Department.
 5. Ethnicity codes must conform to standard codes that will be supplied by Department.
 6. Data in the "gender" column must be either "M" or "F".
 7. Data in the "rental equipment" column must be either "Y" or "N".
 8. Equipment owner's description may not be omitted. (The description, together with the equipment number, is how the equipment will be identified in the field.) Include manufacturer, rated capacity & trade description.
 9. Equipment type, make, model, and ratebook code shall conform to the Department of Transportation Publication entitled "Labor Surcharge and Equipment Rental Rate", which is in effect on the date the work is performed. If the equipment in question does not have an entry in the book then alternate, descriptive entries may be made in these fields as directed by the Engineer.
- F. The name of each file shall indicate its contents, e.g., "labor.csv" for laborers, "equipment.csv" for equipment, and "contractor.csv" for contractors. Each electronic media supplied to Caltrans must be accompanied by a printed list of the files it contains with a brief description of the contents of each file.

PAYMENT

The contract lump sum price paid for electronic data delivery for daily diary shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in data delivery for daily diary as specified in the Standard Specifications and these special provisions, and as directed by the Engineer.

The lump sum bid price for electronic data delivery for daily diary will be made according to the following :

The Contractor will receive not more than 5 per cent per month of the total bid price for electronic data delivery for daily diary. After the completion of the work, 100 per cent payment will be made for data delivery for daily diary less the permanent deduction, if any, for failure to deliver complete weekly electronic data for daily diary in each month.

The Department will retain an amount equal to 25 percent of the estimated value of the work performed during the first estimate period in which the Contractor fails to deliver electronic data for daily diary conforming to the requirements of this section, as determined by the Engineer. Thereafter, on subsequent successive estimate periods the percentage the Department will retain will be increased at the rate of 25 percent per estimate period in which acceptable electronic data for daily diary have not been delivered to the Engineer. Retentions for failure to deliver acceptable electronic data for daily diary shall be additional to all other retentions provided for in the contract. The retention for failure to deliver acceptable electronic data for daily diary will be released for payment on the next monthly estimate for partial payment following the date that acceptable electronic data for daily diary is delivered to the Engineer.

The adjustment provisions in Section 4-1.03, "Changes," of the Standard Specifications, shall not apply to the item of electronic data delivery for daily diary. Adjustments in compensation for electronic data delivery for daily diary will not be made for any increased or decreased work ordered by the Engineer in furnishing electronic data delivery for daily diary.

10-1.03 WATER POLLUTION CONTROL

GENERAL

Water pollution control work shall conform to the provisions in Section 7-1.01G, "Water Pollution," of the Standard Specifications, section of these special provisions entitled "Relations With California Regional Water Quality Control Board," and these special provisions.

The Contractor may obtain other National Pollutant Discharge Elimination System (NPDES) permits that apply to activities and mobile operations within or outside of the project limits including hot mix asphalt batch plants, material borrow areas, concrete plants, staging areas, storage yards, or access roads.

The Contractor shall perform water pollution control work in conformance with the requirements in the "Storm Water Pollution Prevention Plan (SWPPP) and Water Pollution Control Program (WPCP) Preparation Manual" and its addenda in effect on the day the Notice to Bidders is dated. This manual is referred to as the "Preparation Manual." Copies of the Preparation Manual may be obtained from:

State of California
Department of Transportation
Publication Distribution Unit
1900 Royal Oaks Drive
Sacramento, California 95815
Telephone: (916) 445-3520

The Preparation Manual and other references for performing water pollution control work are available from the Department's Construction Storm Water and Water Pollution Control web site at:

<http://www.dot.ca.gov/hq/construc/stormwater/stormwater1.htm>

Training

Provide stormwater training for:

- A. Project managers
- B. Supervisory personnel
- C. Employees involved with WPC work

Train all employees, including subcontractor's employees, in the following subjects:

- A. WPC rules and regulations
- B. Implementation and maintenance for:
 - 1. Temporary Soil Stabilization
 - 2. Temporary Sediment Control
 - 3. Tracking Control
 - 4. Wind Erosion Control
 - 5. Material pollution prevention and control
 - 6. Waste management
 - 7. Non-storm water management
 - 8. Identifying and handling hazardous substances
 - 9. Potential dangers to humans and the environment from spills and leaks or exposure to toxic or hazardous substances

Employees must receive initial WPC training prior to working on the job.
Conduct weekly training meetings covering:

- A. WPC best management practices (BMPs) deficiencies and corrective actions
- B. BMPs that are required for work activities during the week
- C. Spill prevention and control
- D. Material delivery, storage, use, and disposal
- E. Waste management
- F. Non-storm water management procedures

Training for personnel to collect water quality samples must include:

- A. SAP review
- B. Health and safety review
- C. Sampling simulations

Submit stormwater training records:

- A. Include training dates and subject for employees and subcontractors. Include dates and subject for ongoing training, including tailgate meetings.
- B. Employee training records:
 - 1. Within 5 days of SWPPP acceptance for existing employees
 - 2. Within 5 days of training for new employees
 - 3. At least 5 days before subcontractors start work for subcontractor's employees

Within 20 days after contract approval, designate in writing a full-time Water Pollution Control Manager (WPCM). The Contractor shall submit a statement of qualifications describing the training, work history, and expertise of the proposed WPCM. The qualifications shall include either:

- A. A minimum of 24 hours of Department approved storm water management training described at Department's Construction Storm Water and Water Pollution Control web site.
- B. Certification as a Certified Professional in Erosion and Sediment Control (CPESC).

The Contractor may designate one manager to prepare the SWPPP and a different manager to implement the plan. The WPCP preparer shall meet the training requirements for the WPCM.

At the job site, WPCM must:

- A. Be responsible for water pollution control work
- B. Be primary contact for water pollution control work
- C. Oversee the maintenance of water pollution control practices
- D. Oversee and enforce hazardous waste management practices
- E. Have authority to mobilize crews to make immediate repairs to water pollution control practices
- F. Ensure that all employees have current water pollution control training
- G. Implement the accepted SWPPP and amend the SWPPP when required
- H. Issue Notice of Correction for BMP deficiencies

WPCM must oversee:

- A. Inspections of water pollution control practices identified in the SWPPP
- B. Preparation and implementation of REAPs
- C. Sampling and analysis
- D. SWPPP annual certification
- E. BMP status reports

STORM WATER POLLUTION PREVENTION PLAN

The Contractor shall submit a Storm Water Pollution Prevention Plan (SWPPP) to the Engineer for approval. The SWPPP shall conform to the requirements in the Preparation Manual, the NPDES permit, and these special provisions. The SWPPP shall be submitted in place of the water pollution control program required by the provisions in Section 7-1.01G, "Water Pollution," of the Standard Specifications.

The SWPPP shall include water pollution control practices:

- A. For storm water and non-storm water from areas outside of the job site related to construction activities for this contract such as:
 - 1. Staging areas.
 - 2. Storage yards.
 - 3. Access roads.
- B. Appropriate for each season as described in "Implementation Requirements" of these special provisions.
- C. For activities or mobile operations related to all NPDES permits.

The SWPPP shall include a schedule that:

- A. Describes when work activities that could cause water pollution will be performed.
- B. Identifies soil stabilization and sediment control practices for disturbed soil area.
- C. Includes dates when these practices will be 25, 50, and 100 percent complete.
- D. Shows 100 percent completion of these practices before the rainy season.

The SWPPP shall include the following temporary water pollution control practices and their associated contract items of work as shown on the plans or specified in these special provisions:

- A. Temporary Soil Stabilization
 - 1. Bonded Fiber Matrix
- B. Temporary Sediment Control
 - 1. Temporary Silt Fence
 - 2. Street Sweeping
 - 3. Temporary Access Trestle
 - 3.1. Trestle must have filter fabric or plastic liner under the trestle planks
 - 3.2. Trestle must be kept free of debris
 - 3.3. Trestle must be swept daily and at the end of each shift.
 - 3.4. Toe boards must be installed along perimeter and maintained to prevent sediment discharge
- C. Tracking Control
 - 1. Construction Entrance
- D. Wind Erosion Control
 - 1. Construction Site Management
- E. Non-Storm Water Management
 - 1. Construction Site Management
 - 2. Temporary Active Treatment System

F. Waste Management and Materials Pollution Control

1. Construction Site Management
2. Concrete Waste Management

The SWPPP shall include the following contract items of work for permanent water pollution control as shown on the plans or as specified in these special provisions:

- A. Compost, Incorporate
- B. Erosion Control (Hydroseed)

Within 20 days after contract approval, the Contractor shall submit 3 copies of the SWPPP to the Engineer. The Contractor shall allow 20 days for the Engineer's review. If revisions are required, the Engineer will provide comments and specify the date that the review stopped. The Contractor shall revise and resubmit the SWPPP within 15 days of receipt of the Engineer's comments. The Engineer's review will resume when the complete SWPPP is resubmitted. When the Engineer approves the SWPPP, the Contractor shall submit 4 copies of the approved SWPPP to the Engineer. The Contractor may proceed with construction activities if the Engineer conditionally approves the SWPPP while minor revisions are being completed.

The SWPPP shall include a copy of the RWQCB 401 Certification, US Army Corps of Engineers 404 Permit, California Department of Fish & Game agreement.

The Contractor shall not perform work that may cause water pollution until the SWPPP has been approved by the Engineer. The Engineer's review and approval shall not waive any contract requirements and shall not relieve the Contractor from complying with Federal, State and local laws, regulations, and requirements.

You must amend the SWPPP annually and resubmit by July 15.

You must amend the SWPPP when:

- A. Changes in work activities that may affect the discharge of pollutants
- B. Water pollution control practices are added by change order work
- C. Water pollution control practices are added by your discretion
- D. Changes in the amount of disturbed soil are substantial
- E. Objectives for reducing or eliminating pollutants in stormwater discharges have not been achieved
- F. There is a Permit violation

When you amend the SWPPP, follow the same process specified for SWPPP approval.

If directed by the Engineer or requested in writing by the Contractor and approved by the Engineer, changes to the water pollution control work specified in these special provisions will be allowed. Changes may include addition of new water pollution control practices. The Contractor shall incorporate these changes in the SWPPP. Additional water pollution control work will be paid for as extra work in accordance with Section 4-1.03D, "Extra Work," of the Standard Specifications.

The Contractor shall keep a copy of the approved SWPPP at the job site. The SWPPP shall be made available when requested by a representative of the Regional Water Quality Control Board, State Water Resources Control Board, United States Environmental Protection Agency, or the local storm water management agency. Requests from the public shall be directed to the Engineer.

SAMPLING AND ANALYSIS

The Contractor shall include a Sampling and Analysis Plan (SAP) in the SWPPP to monitor the effectiveness of the water pollution control practices. The Contractor shall prepare the SAP in conformance with the Preparation Manual.

The Contractor shall designate trained personnel to collect water quality samples. The personnel and training shall be documented in the SAP. Training shall consist of the following elements:

- A. SAP review,
- B. Health and safety review, and
- C. Sampling simulations.

In the SAP the Contractor shall describe the following water quality sampling procedures:

- A. Sampling preparation,
- B. Collection,
- C. Quality assurance and quality control,
- D. Sample labeling,
- E. Collection documentation,
- F. Sample shipping,
- G. Chain of custody,
- H. Sample numbering, and
- I. Precautions from the construction site health and safety plan.

The Contractor shall document sample collection during precipitation.

Samples to be analyzed in the field shall be taken by the Contractor's designated sampling personnel using collection and analysis methods, and equipment calibration specified by the manufacturer of the sampling equipment. Samples to be analyzed by a laboratory, shall be sampled, preserved, and analyzed by a State-certified laboratory in conformance with the requirements in 40 CFR Part 136, "Guidelines Establishing Test Procedures for the Analysis of Pollutants." The Contractor shall identify the State-certified laboratory, sample containers, preservation requirements, holding times, and analysis method in the SAP. A list of State-certified laboratories that are approved by the Department is available at:

<http://www.dhs.ca.gov/ps/ls/ELAP/html/lablist.htm>

Non-Visible Pollutants

This project has the potential to discharge non-visible pollutants in storm water from the construction site. The Contractor shall include in the SAP a description of the sampling and analysis strategy to be implemented on the project for monitoring non-visible pollutants.

In the SAP the Contractor shall identify potential non-visible pollutants that will be present on the construction site associated with the following:

- A. Construction materials and wastes;
- B. Existing contamination due to historical site usage; or
- C. Application of soil amendments, including soil stabilization products, with the potential to alter pH or contribute toxic pollutants to storm water.

The Contractor shall show the locations planned for storage and use of the potential non-visible pollutants on the SWPPP Water Pollution Control Drawings.

The Contractor shall include in the SAP the following list of conditions that require sampling when observed during a storm water inspection:

- A. Materials or wastes containing potential non-visible pollutants are not stored under watertight conditions.
- B. Materials or wastes containing potential non-visible pollutants are stored under watertight conditions, but:
 - 1. A breach, leakage, malfunction, or spill is observed;
 - 2. The leak or spill has not been cleaned up before precipitation; and
 - 3. There is the potential for discharge of non-visible pollutants to surface waters or drainage system.
- C. Construction activities; such as application of fertilizer, pesticide, herbicide, methyl methacrylate concrete sealant, or non-pigmented curing compound; have occurred during precipitation or within 24 hours preceding precipitation, and have the potential to discharge pollutants to surface waters or drainage system.
- D. Soil amendments, including soil stabilization products, with the potential to alter pH levels or contribute toxic pollutants to storm water runoff have been applied, and have the potential to discharge pollutants to surface waters or drainage system (unless independent test data are available that demonstrate acceptable concentrations of non-visible pollutants in the soil amendment).
- E. Storm water runoff from an area contaminated by historical usage of the site has the potential to discharge pollutants to surface waters or drainage system.

The Contractor shall describe in the SAP the schedule for collecting a sample downhill from each non-visible pollutant source and an uncontaminated control sample, during the first 2 hours of discharge from precipitation during daylight hours that result in enough discharge for sample collection. If discharge flows to the non-visible pollutant source, a sample shall be collected immediately downhill from where the discharge enters the Department's right of way. If precipitation occurs again after at least 72 hours of dry weather the Contractor shall take new samples.

In the SAP the Contractor shall identify sampling locations for collecting downstream and control samples, and the reason for their selection. The control sampling location shall be selected so the sample does not come into contact with materials, wastes or areas associated with potential non-visible pollutants or disturbed soil areas. The Contractor shall show non-visible pollutant sampling locations on the SWPPP Water Pollution Control Drawings.

The Contractor shall identify in the SAP the analytical method to be used for downhill and control samples for potential non-visible pollutants on the project.

Analytical Results and Evaluation

The Contractor shall submit a hard copy and electronic copy of water quality analytical results, and quality assurance and quality control data to the Engineer within 5 days of sampling for field analyses, and within 30 days for laboratory analyses. The Contractor shall also provide an evaluation of whether the downhill samples show levels of the tested parameter higher than in the control sample. If downhill or downstream samples show increased levels, the Contractor will assess the water pollution control measures, site conditions, and surrounding influences to determine the probable cause for the increase. As determined by the assessment, the Contractor will repair or modify water pollution control measures to address increases and amend the SWPPP as necessary. Electronic results (in one of the following file formats: .xls, .txt, .csv, .dbs, or .mdb) shall have the following information:

- A. Sample identification number.
- B. Contract number.
- C. Constituent.
- D. Reported value.
- E. Analytical method.
- F. Method detection limit.
- G. Reported limit.

The Contractor shall maintain the water quality sampling documentation and analytical results with the SWPPP on the project site.

If construction activities or knowledge of site conditions change such that discharges or sampling locations change, the Contractor shall amend the SAP in conformance with this section, "Water Pollution Control."

IMPLEMENTATION REQUIREMENTS

The Contractor's responsibility for SWPPP implementation shall continue throughout any temporary suspension of work ordered in conformance with the provisions in Section 8-1.05, "Temporary Suspension of Work," of the Standard Specifications.

If the Contractor or the Engineer identifies a deficiency in the implementation of the approved SWPPP, the deficiency shall be corrected immediately, unless an agreed date for correction is approved in writing by the Engineer. The deficiency shall be corrected before the onset of precipitation. If the Contractor fails to correct the deficiency by the agreed date or before the onset of precipitation, the Department may correct the deficiency and deduct the cost of correcting deficiencies from payments.

If the Contractor fails to conform to the provisions of this section, "Water Pollution Control," the Engineer may order the suspension of work until the project complies with the requirements of this section.

Year-Round

The Contractor shall monitor the National Weather Service weather forecast on a daily basis during the contract. The Contractor may use an alternative weather forecasting service if approved by the Engineer. Appropriate water pollution control practices shall be in place before precipitation.

The Contractor may discontinue earthwork operations for a disturbed area for up to 21 days and the disturbed soil area will still be considered active. When earthwork operations in the disturbed area have been completed, the Contractor shall implement appropriate water pollution control practices within 15 days, or before predicted precipitation, whichever occurs first.

Rainy Season

The Contractor shall provide soil stabilization and sediment control practices during the rainy season between October 15 and April 15.

The Contractor shall implement soil stabilization and sediment control practices a minimum of 10 days before the start of the rainy season.

During the defined rainy season, the active disturbed soil area of the project site shall be not more than 0.5 acres. The Engineer may approve expansions of the active disturbed soil area limit if requested in writing. The Contractor shall maintain soil stabilization and sediment control materials on site to protect disturbed soil areas.

Rain Event Action Plan (REAP)

The WPCM qualified as QSP must provide a written Rain Event Action Plan (REAP) to protect the jobsite at least 48 hours before a predicted rain event.

Prepare a REAP when precipitation is predicted by the National Weather Service to occur within 72 hours and have the probability of at least 50 percent.

REAP must use approved forms and include:

- A. Site location
- B. Contact information including 24-hour emergency phone numbers for:
 - 1. WPCM
 - 2. Erosion and sediment control providers or subcontractors
 - 3. Storm water sampling providers or subcontractors
- C. Storm Information
- D. Construction phase:
 - 1. Highway Construction including active and inactive areas for work activities for building roads and structures
 - 2. Plant Establishment including maintenance on vegetation installed for final stabilization where areas are inactive
 - 3. Suspension where work activities are suspended and areas are inactive
- E. Construction phase information including:
 - 1. Construction activities
 - 2. Subcontractors and trades on the job site
 - 3. Pre-storm activities including:
 - 3.1 Responsibilities of the WPCM
 - 3.2 Responsibilities of the crew and crew size
 - 3.3 Stabilization for active and inactive disturbed soil areas
 - 3.4 Stockpile management
 - 3.5 Corrective actions for deficiencies identified during pre-storm visual inspection
 - 4. Activities to be done during storm events including:
 - 4.1 Responsibilities of the WPCM
 - 4.2 Responsibilities of the crew and crew size
 - 4.3 BMP maintenance and repair
 - 5. Description of flood contingency measures

You must have the REAP onsite at least 24 hours before a predicted rain event. A printed copy of each REAP must be at the job site as part of the SWPPP.

You must implement the REAP including mobilizing crews to complete activities no later than 24 hours before precipitation occurs.

INSPECTION

Inspection

WPCM must oversee inspections for water pollution control practices identified in the SWPPP:

- A. Before a forecasted storm
- B. After precipitation that causes site runoff
- C. At 24-hour intervals during extended precipitation
- D. On a predetermined schedule, a minimum of once a week

WPCM must oversee daily inspections for:

- A. Storage areas for hazardous materials and wastes
- B. Hazardous waste disposal and transporting activities
- C. Hazardous material delivery and storage activities
- D. Water pollution control practices specified under construction site management

The WPCM must use the Storm Water Site Inspection Report provided in the Preparation Manual. The WPCM must oversee the preparation of the BMP status report. This report must include:

- A. Location and quantity of installed water pollution control practices
- B. Location and quantity of disturbed soil for the active or inactive area

Within 24 hours of finishing the weekly inspection, the WPCM must submit:

- A. Copy of completed site inspection report
- B. Copy of BMP status report

Visual Monitoring

The WPCM must oversee the performance of visual inspections for qualifying rain events. A qualified rain event is a storm that produces at least 0.5 inches of precipitation with a 48 hour or greater period between storms.

For each qualified rain event, perform visual inspections and record observations:

- A. During working hours
- B. Record the time, date, and rain gauge reading
- C. Within 2 days before the storm, observe:
 - 1. Drainage areas for spills, leaks, or uncontrolled pollutants
 - 2. Proper implementation of water pollution control practices
 - 3. Stormwater storage areas for leaks and adequate freeboard
- D. Every 24 hours during the storm, observe:
 - 1. Water pollution control practices for effective operation
 - 2. Water pollution control practices needing maintenance and repair
- E. Within 2 days after the storm event, observe
 - 1. Discharge locations
 - 2. Water pollution control practices to evaluate the design, implementation, and effectiveness
 - 3. To identify where additional water pollution control practices may be needed

Perform non-stormwater discharge visual inspections:

- A. At least once during each of these periods:
 - 1. January through March
 - 2. April through June
 - 3. July through September
 - 4. October through December
- B. Observe for the presence of floating and suspended materials, sheen on the surface, discoloration, turbidity, odors, and sources of observed pollutants for flowing and contained stormwater
- C. Observe the job site for the presence of authorized and unauthorized non-stormwater discharges and their sources

REPORTING REQUIREMENTS

If the Contractor identifies discharges into surface waters or drainage systems causing or potentially causing pollution, or if the project receives a written notice or order from a regulatory agency, the Contractor shall immediately inform the Engineer. The Contractor shall submit a written report to the Engineer within 7 days of the discharge, notice or order. The report shall include the following information:

- A. The date, time, location, and nature of the operation, type of discharge and quantity, and the cause of the notice or order.
- B. The water pollution control practices used before the discharge, or before receiving the notice or order.
- C. The date of placement and type of additional or altered water pollution control practices placed after the discharge, or after receiving the notice or order.
- D. A maintenance schedule for affected water pollution control practices.

Annual Certifications

By June 15 of each year, the Contractor shall complete and submit to the Engineer an Annual Certification of Compliance, as contained in the Preparation Manual.

PAYMENT

During each estimate period the Contractor fails to conform to the provisions in this section, "Water Pollution Control," or fails to implement the water pollution control practices shown on the plans or specified elsewhere in these special provisions as items of work, the Department will withhold 25 percent of the progress payment.

Withholds for failure to perform water pollution control work will be in addition to all other withholds provided for in the contract. The Department will return performance-failure withholds in the progress payment following the correction of noncompliance.

The contract lump sum price paid for prepare storm water pollution prevention plan shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals and for doing all the work involved in preparing, obtaining approval of, and amending the SWPPP and inspecting water pollution control practices as specified in the Standard Specifications and these special provisions, and as directed by the Engineer.

Payments for prepare storm water pollution prevention plan will be made as follows:

- A. After the SWPPP has been approved by the Engineer, 50 percent of the contract item price for prepare storm water pollution prevention plan will be included in the monthly progress estimate.
- B. Forty percent of the contract item price for prepare storm water pollution prevention plan will be paid over the life of the contract.
- C. After acceptance of the contract in conformance with the provisions in Section 7-1.17, "Acceptance of Contract," of the Standard Specifications, payment for the remaining 10 percent of the contract item price for prepare storm water pollution prevention plan will be made in conformance with the provisions in Section 9-1.08B, "Payment Before Final Estimate."

Storm water sampling and analysis will be paid for as extra work as provided in Section 4-1.03D, "Extra Work," of the Standard Specifications. No payment will be made for the preparation, collection, analysis, and reporting of storm water samples where appropriate water pollution control practices are not implemented before precipitation or if a failure of a water pollution control practice is not corrected before precipitation.

Implementation of water pollution control practices in areas outside the highway right of way not specifically provided for in the SWPPP or in these special provisions will not be paid for.

Water pollution control practices for which there are separate contract items of work will be measured and paid for as those contract items of work.

TEMPORARY STEEL DECK PLATES

Temporary steel deck plates for Piers 16 and 31 joint retrofit shall conform to the details shown on the plans and to the requirements in "Steel Structures" of these special provisions.

Working drawings for the temporary steel deck plates shall include the following:

- A. Details of the connection between the temporary plates and the existing structure.
- B. Storage location of equipment and materials that allows for a shift of work and placement of temporary plates to be completed within the time allowed in "Maintaining Traffic" of these special provisions.
- C. Construction sequence and schedule details.
- D. Cure time for concrete that is to be placed under a steel plate system.
- E. Details, materials, and methods for removal of temporary plates and for restoration of the existing structure after the removal.
- F. Drawings shall be signed by an engineer who is registered as a Civil Engineer in the State of California.

The following shall apply to temporary steel deck plates:

- A. Tapers shall be constructed up to and away from the temporary plates. If the temporary plates do not extend the entire width of the roadway, the sides of the temporary plates shall be tapered at a 10:1 (horizontal to vertical) slope.
- B. Temporary plates shall have a uniform surface that provides a coefficient of friction of at least 0.35 as determined by California Test 342.
- C. Temporary plates shall be mechanically connected to the existing structure and adjacent approaches. When a steel plate spans a joint, the mechanical connection shall accommodate at least 50 percent of the movement rating shown on the plans for that joint.
- D. Temporary plates shall not overstress, induce permanent forces into, or produce cracking in the existing structure.

The edges of steel plates shall be in full contact with the existing deck and shims may be required. Shims must be securely attached to the plate.

When temporary plates are no longer needed, materials and connections shall be removed from the existing structure as soon as possible. Modifications to the existing structure shall be restored except where permanent alterations are shown on the plans.

Full compensation for temporary steel deck plates shall be considered as included in the contract prices paid for the various items of work involved, and no separate payment will be made therefor.

RECONSTRUCT FENDER

This work shall consist of reconstructing existing fender in conformance with the details shown on the plans, the provisions in Section 15-2.05, "Reconstruction" of the Standard Specifications and these special provisions.

Metal components shall conform to "Steel Structures" of these special provisions.

New metal surfaces shall be cleaned and painted in accordance with "Cleaning and Painting Structural Steel" of these special provisions.

Portions of fender shall be removed and reinstalled in conformance with the details shown on the plans.

A temporary support system shall be designed, furnished and installed to support the fender during footing retrofit and until the fender is reconstructed. At least 30 days before fender reconstruction work is to begin, the Contactor shall submit to the Engineer a temporary support system plan for approval. The Engineer shall be allowed 2 weeks for review of the submittal. The temporary support system plan shall include the fender reconstruction sequence and the methods, materials, details and design calculations for design and construction of the temporary support. The design calculations shall demonstrate that the proposed support system can adequately support the fender during all stages of reconstruction. When no longer required, the temporary support system shall be removed and disposed of.

Reconstruct fender will be paid for by lump sum price.

The contract lump sum price paid for reconstruct fender shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in reconstructing fender, including removing and reinstalling portions of existing fender and cleaning and painting metal components, designing, furnishing, installing and removing the temporary support system, complete in place, as shown on the plans, as specified in the Standard Specifications and these special provisions, and as directed by the Engineer.

**BID ITEM LIST
04-1A5224**

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
161	018591	RELOCATE CONTROL CENTRE 1 IN SUBSTATION 1	LS	LUMP SUM	LUMP SUM	
162	018592	RELOCATE CONTROL CENTER 44 IN SUBSTATION 44	LS	LUMP SUM	LUMP SUM	
163	BLANK					
164	042724	REPLACE HINGE JOINT SEAL ASSEMBLY (MR 7 1/2")	LF	170		
165	BLANK					
166	01882	ELECTRONIC DATA DELIVERY FOR DAILY DIARY	LS	LUMP SUM	LUMP SUM	
167	01883	DOCUMENT MANAGEMENT SYSTEM	LS	LUMP SUM	LUMP SUM	
168	999990	MOBILIZATION	LS	LUMP SUM	LUMP SUM	